

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												
-3000	8,028969E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026623E+06	3,817709E+08	1,021187E+09	1,394985E+09	1,394959E+09	1,021111E+09	3,816816E+08
-2999	8,022883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023697E+06	3,816772E+08	1,021105E+09	1,394925E+09	1,394937E+09	1,021144E+09	3,817489E+08
-2998	8,028632E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028529E+06	3,816975E+08	1,021077E+09	1,394870E+09	1,394880E+09	1,021093E+09	3,816808E+08
-2997	8,026830E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025884E+06	3,817276E+08	1,021097E+09	1,394846E+09	1,394799E+09	1,021004E+09	3,816674E+08
-2996	8,024687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024815E+06	3,816206E+08	1,020990E+09	1,394792E+09	1,394811E+09	1,021053E+09	3,817180E+08
-2995	8,031452E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029824E+06	3,816910E+08	1,021007E+09	1,394759E+09	1,394751E+09	1,020970E+09	3,816210E+08
-2994	8,025349E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025983E+06	3,816661E+08	1,020982E+09	1,394723E+09	1,394703E+09	1,020951E+09	3,816637E+08
-2993	8,027171E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026778E+06	3,816039E+08	1,020912E+09	1,394689E+09	1,394727E+09	1,021001E+09	3,816812E+08
-2992	8,029944E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030751E+06	3,817039E+08	1,020988E+09	1,394707E+09	1,394690E+09	1,020923E+09	3,816101E+08
-2991	8,025095E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024170E+06	3,816363E+08	1,020966E+09	1,394718E+09	1,394717E+09	1,020984E+09	3,816945E+08
-2990	8,028951E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028493E+06	3,816380E+08	1,020965E+09	1,394742E+09	1,394760E+09	1,021010E+09	3,816674E+08
-2989	8,028782E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027732E+06	3,817163E+08	1,021052E+09	1,394802E+09	1,394768E+09	1,020973E+09	3,816458E+08
-2988	8,025266E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023623E+06	3,816330E+08	1,021013E+09	1,394826E+09	1,394856E+09	1,021090E+09	3,817290E+08
-2987	8,028917E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031032E+06	3,817139E+08	1,021080E+09	1,394863E+09	1,394869E+09	1,021074E+09	3,816628E+08
-2986	8,025795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024827E+06	3,817343E+08	1,021134E+09	1,394909E+09	1,394875E+09	1,021069E+09	3,816965E+08
-2985	8,023693E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025305E+06	3,816561E+08	1,021078E+09	1,394915E+09	1,394944E+09	1,021157E+09	3,817489E+08
-2984	8,029605E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029045E+06	3,817505E+08	1,021143E+09	1,394938E+09	1,394927E+09	1,021095E+09	3,816690E+08
-2983	8,024837E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,022628E+06	3,816977E+08	1,021119E+09	1,394924E+09	1,394916E+09	1,021117E+09	3,817322E+08
-2982	8,026123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027218E+06	3,816588E+08	1,021052E+09	1,394876E+09	1,394906E+09	1,021125E+09	3,817200E+08
-2981	8,029778E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027222E+06	3,817434E+08	1,021106E+09	1,394866E+09	1,394835E+09	1,021022E+09	3,816520E+08
-2980	8,023406E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024263E+06	3,816491E+08	1,021027E+09	1,394814E+09	1,394823E+09	1,021061E+09	3,817209E+08
-2979	8,029375E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029472E+06	3,816752E+08	1,021013E+09	1,394773E+09	1,394771E+09	1,021006E+09	3,816512E+08
-2978	8,027489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026890E+06	3,817007E+08	1,021024E+09	1,394753E+09	1,394704E+09	1,020922E+09	3,816322E+08
-2977	8,024960E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025463E+06	3,815907E+08	1,020903E+09	1,394681E+09	1,394711E+09	1,020982E+09	3,816903E+08
-2976	8,031656E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031055E+06	3,816671E+08	1,020924E+09	1,394650E+09	1,394655E+09	1,020903E+09	3,815974E+08
-2975	8,026064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026550E+06	3,816424E+08	1,020912E+09	1,394622E+09	1,394605E+09	1,020883E+09	3,816399E+08
-2974	8,027618E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027030E+06	3,815773E+08	1,020841E+09	1,394586E+09	1,394618E+09	1,020923E+09	3,816597E+08
-2973	8,030883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030790E+06	3,816776E+08	1,020926E+09	1,394623E+09	1,394594E+09	1,020848E+09	3,815863E+08
-2972	8,025977E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024191E+06	3,816092E+08	1,020902E+09	1,394639E+09	1,394642E+09	1,020926E+09	3,816710E+08
-2971	8,029342E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029661E+06	3,816232E+08	1,020915E+09	1,394669E+09	1,394686E+09	1,020952E+09	3,816430E+08
-2970	8,028820E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028810E+06	3,817026E+08	1,021000E+09	1,394730E+09	1,394700E+09	1,020919E+09	3,816186E+08
-2969	8,024713E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024239E+06	3,816163E+08	1,020954E+09	1,394741E+09	1,394777E+09	1,021039E+09	3,817121E+08
-2968	8,029116E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031446E+06	3,816939E+08	1,021023E+09	1,394788E+09	1,394796E+09	1,021022E+09	3,816509E+08
-2967	8,027169E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024410E+06	3,817055E+08	1,021074E+09	1,394836E+09	1,394802E+09	1,021014E+09	3,816806E+08
-2966	8,024829E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025081E+06	3,816219E+08	1,020999E+09	1,394816E+09	1,394849E+09	1,021088E+09	3,817303E+08
-2965	8,031033E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029219E+06	3,817207E+08	1,021065E+09	1,394834E+09	1,394825E+09	1,021020E+09	3,816421E+08

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												
-2964	8,025331E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,023487E+06	3,816738E+08	1,021041E+09	1,394815E+09	1,394813E+09	1,021043E+09	3,817020E+08
-2963	8,026241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028799E+06	3,816471E+08	1,020995E+09	1,394776E+09	1,394794E+09	1,021039E+09	3,816869E+08
-2962	8,029722E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028435E+06	3,817250E+08	1,021046E+09	1,394777E+09	1,394734E+09	1,020937E+09	3,816155E+08
-2961	8,023344E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024757E+06	3,816207E+08	1,020951E+09	1,394715E+09	1,394723E+09	1,020985E+09	3,816938E+08
-2960	8,030075E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029987E+06	3,816420E+08	1,020927E+09	1,394673E+09	1,394681E+09	1,020937E+09	3,816281E+08
-2959	8,028745E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027301E+06	3,816649E+08	1,020934E+09	1,394643E+09	1,394608E+09	1,020855E+09	3,816066E+08
-2958	8,025683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025892E+06	3,815576E+08	1,020805E+09	1,394546E+09	1,394587E+09	1,020902E+09	3,816661E+08
-2957	8,032426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031538E+06	3,816393E+08	1,020843E+09	1,394528E+09	1,394529E+09	1,020817E+09	3,815699E+08
-2956	8,026676E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026941E+06	3,816175E+08	1,020842E+09	1,394520E+09	1,394498E+09	1,020807E+09	3,816138E+08
-2955	8,028282E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027972E+06	3,815618E+08	1,020792E+09	1,394507E+09	1,394525E+09	1,020846E+09	3,816317E+08
-2954	8,031312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031653E+06	3,816588E+08	1,020874E+09	1,394556E+09	1,394525E+09	1,020785E+09	3,815565E+08
-2953	8,026059E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024820E+06	3,815903E+08	1,020843E+09	1,394564E+09	1,394575E+09	1,020878E+09	3,816500E+08
-2952	8,029277E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030641E+06	3,816071E+08	1,020860E+09	1,394598E+09	1,394623E+09	1,020908E+09	3,816285E+08
-2951	8,029536E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028894E+06	3,816827E+08	1,020949E+09	1,394660E+09	1,394633E+09	1,020874E+09	3,816028E+08
-2950	8,025163E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024094E+06	3,815904E+08	1,020891E+09	1,394653E+09	1,394688E+09	1,020978E+09	3,816974E+08
-2949	8,030267E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030968E+06	3,816627E+08	1,020956E+09	1,394701E+09	1,394706E+09	1,020957E+09	3,816308E+08
-2948	8,028198E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024425E+06	3,816745E+08	1,020998E+09	1,394742E+09	1,394716E+09	1,020952E+09	3,816561E+08
-2947	8,025381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026428E+06	3,816047E+08	1,020934E+09	1,394719E+09	1,394749E+09	1,021012E+09	3,816985E+08
-2946	8,031029E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030603E+06	3,817049E+08	1,021000E+09	1,394737E+09	1,394726E+09	1,020943E+09	3,816071E+08
-2945	8,024826E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024565E+06	3,816562E+08	1,020975E+09	1,394712E+09	1,394707E+09	1,020969E+09	3,816737E+08
-2944	8,026385E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029523E+06	3,816245E+08	1,020930E+09	1,394687E+09	1,394701E+09	1,020967E+09	3,816647E+08
-2943	8,030922E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028502E+06	3,816927E+08	1,020973E+09	1,394686E+09	1,394646E+09	1,020869E+09	3,815916E+08
-2942	8,024425E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024875E+06	3,815830E+08	1,020857E+09	1,394596E+09	1,394613E+09	1,020907E+09	3,816703E+08
-2941	8,031478E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030257E+06	3,816065E+08	1,020834E+09	1,394549E+09	1,394564E+09	1,020857E+09	3,816003E+08
-2940	8,029426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028243E+06	3,816361E+08	1,020845E+09	1,394518E+09	1,394490E+09	1,020777E+09	3,815771E+08
-2939	8,026110E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027245E+06	3,815430E+08	1,020742E+09	1,394438E+09	1,394464E+09	1,020811E+09	3,816326E+08
-2938	8,032485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032423E+06	3,816191E+08	1,020784E+09	1,394440E+09	1,394428E+09	1,020733E+09	3,815359E+08
-2937	8,026815E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027147E+06	3,815919E+08	1,020777E+09	1,394434E+09	1,394411E+09	1,020739E+09	3,815882E+08
-2936	8,028829E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028362E+06	3,815348E+08	1,020726E+09	1,394434E+09	1,394459E+09	1,020792E+09	3,816130E+08
-2935	8,032354E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031890E+06	3,816313E+08	1,020807E+09	1,394477E+09	1,394459E+09	1,020741E+09	3,815386E+08
-2934	8,026628E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024975E+06	3,815636E+08	1,020768E+09	1,394464E+09	1,394485E+09	1,020823E+09	3,816355E+08
-2933	8,030073E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030628E+06	3,815821E+08	1,020797E+09	1,394505E+09	1,394528E+09	1,020848E+09	3,816118E+08
-2932	8,030332E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028836E+06	3,816570E+08	1,020887E+09	1,394575E+09	1,394546E+09	1,020815E+09	3,815839E+08
-2931	8,025865E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025005E+06	3,815762E+08	1,020841E+09	1,394575E+09	1,394598E+09	1,020906E+09	3,816701E+08
-2930	8,030559E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031891E+06	3,816448E+08	1,020899E+09	1,394623E+09	1,394627E+09	1,020889E+09	3,815983E+08
-2929	8,027922E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025582E+06	3,816596E+08	1,020936E+09	1,394652E+09	1,394630E+09	1,020890E+09	3,816278E+08

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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												
-2928	8,025088E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027854E+06	3,815912E+08	1,020879E+09	1,394640E+09	1,394668E+09	1,020949E+09	3,816748E+08
-2927	8,031489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031062E+06	3,816848E+08	1,020946E+09	1,394657E+09	1,394640E+09	1,020881E+09	3,815844E+08
-2926	8,025303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,024528E+06	3,816250E+08	1,020902E+09	1,394613E+09	1,394604E+09	1,020895E+09	3,816535E+08
-2925	8,027841E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028958E+06	3,815859E+08	1,020848E+09	1,394582E+09	1,394595E+09	1,020893E+09	3,816408E+08
-2924	8,032141E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028639E+06	3,816528E+08	1,020878E+09	1,394570E+09	1,394541E+09	1,020798E+09	3,815647E+08
-2923	8,025291E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026289E+06	3,815597E+08	1,020770E+09	1,394471E+09	1,394489E+09	1,020819E+09	3,816357E+08
-2922	8,031637E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031459E+06	3,815821E+08	1,020750E+09	1,394427E+09	1,394442E+09	1,020768E+09	3,815632E+08
-2921	8,029206E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029269E+06	3,816130E+08	1,020768E+09	1,394401E+09	1,394368E+09	1,020692E+09	3,815472E+08
-2920	8,026543E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027776E+06	3,815176E+08	1,020676E+09	1,394350E+09	1,394366E+09	1,020732E+09	3,816078E+08
-2919	8,033593E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032425E+06	3,815883E+08	1,020719E+09	1,394360E+09	1,394347E+09	1,020670E+09	3,815138E+08
-2918	8,027848E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027151E+06	3,815602E+08	1,020700E+09	1,394339E+09	1,394323E+09	1,020677E+09	3,815684E+08
-2917	8,029887E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028588E+06	3,815082E+08	1,020655E+09	1,394339E+09	1,394371E+09	1,020736E+09	3,815919E+08
-2916	8,032752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032645E+06	3,816102E+08	1,020741E+09	1,394386E+09	1,394375E+09	1,020689E+09	3,815185E+08
-2915	8,026903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026262E+06	3,815551E+08	1,020721E+09	1,394382E+09	1,394390E+09	1,020752E+09	3,816087E+08
-2914	8,029880E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031284E+06	3,815645E+08	1,020747E+09	1,394434E+09	1,394448E+09	1,020781E+09	3,815835E+08
-2913	8,030295E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029156E+06	3,816349E+08	1,020829E+09	1,394498E+09	1,394468E+09	1,020756E+09	3,815606E+08
-2912	8,026068E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025727E+06	3,815548E+08	1,020784E+09	1,394506E+09	1,394529E+09	1,020850E+09	3,816489E+08
-2911	8,031163E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032288E+06	3,816226E+08	1,020838E+09	1,394543E+09	1,394552E+09	1,020839E+09	3,815786E+08
-2910	8,028294E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025848E+06	3,816354E+08	1,020865E+09	1,394550E+09	1,394531E+09	1,020826E+09	3,816097E+08
-2909	8,026062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027760E+06	3,815640E+08	1,020813E+09	1,394541E+09	1,394565E+09	1,020881E+09	3,816547E+08
-2908	8,032545E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030899E+06	3,816515E+08	1,020872E+09	1,394562E+09	1,394543E+09	1,020813E+09	3,815635E+08
-2907	8,026471E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025415E+06	3,815997E+08	1,020829E+09	1,394513E+09	1,394496E+09	1,020809E+09	3,816226E+08
-2906	8,028610E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029696E+06	3,815558E+08	1,020764E+09	1,394474E+09	1,394492E+09	1,020811E+09	3,816051E+08
-2905	8,032137E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029894E+06	3,816262E+08	1,020789E+09	1,394446E+09	1,394424E+09	1,020718E+09	3,815325E+08
-2904	8,025333E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027664E+06	3,815385E+08	1,020696E+09	1,394364E+09	1,394376E+09	1,020735E+09	3,816060E+08
-2903	8,032181E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031980E+06	3,815567E+08	1,020680E+09	1,394326E+09	1,394334E+09	1,020689E+09	3,815356E+08
-2902	8,029688E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029239E+06	3,815793E+08	1,020687E+09	1,394293E+09	1,394257E+09	1,020610E+09	3,815235E+08
-2901	8,028011E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027332E+06	3,814814E+08	1,020598E+09	1,394250E+09	1,394268E+09	1,020661E+09	3,815827E+08
-2900	8,034502E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032732E+06	3,815541E+08	1,020637E+09	1,394261E+09	1,394258E+09	1,020610E+09	3,814918E+08
-2899	8,028599E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028566E+06	3,815439E+08	1,020632E+09	1,394239E+09	1,394223E+09	1,020605E+09	3,815395E+08
-2898	8,029755E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029698E+06	3,814921E+08	1,020595E+09	1,394248E+09	1,394279E+09	1,020668E+09	3,815626E+08
-2897	8,032289E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033521E+06	3,815937E+08	1,020685E+09	1,394300E+09	1,394284E+09	1,020626E+09	3,814967E+08
-2896	8,027068E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026802E+06	3,815371E+08	1,020675E+09	1,394322E+09	1,394318E+09	1,020692E+09	3,815901E+08
-2895	8,030631E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031319E+06	3,815403E+08	1,020693E+09	1,394370E+09	1,394384E+09	1,020731E+09	3,815661E+08
-2894	8,031054E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029110E+06	3,816078E+08	1,020761E+09	1,394413E+09	1,394390E+09	1,020702E+09	3,815450E+08
-2893	8,027098E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,025928E+06	3,815319E+08	1,020722E+09	1,394418E+09	1,394445E+09	1,020795E+09	3,816282E+08

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	8,031588E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032727E+06	3,816011E+08	1,020778E+09	1,394457E+09	1,394466E+09	1,020781E+09	3,815601E+08
-2891	8,028909E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026937E+06	3,816218E+08	1,020813E+09	1,394465E+09	1,394431E+09	1,020747E+09	3,815805E+08
-2890	8,026274E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028136E+06	3,815381E+08	1,020748E+09	1,394455E+09	1,394472E+09	1,020803E+09	3,816229E+08
-2889	8,032738E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031320E+06	3,816197E+08	1,020791E+09	1,394459E+09	1,394446E+09	1,020741E+09	3,815357E+08
-2888	8,026877E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026557E+06	3,815700E+08	1,020746E+09	1,394412E+09	1,394398E+09	1,020734E+09	3,815943E+08
-2887	8,029293E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030402E+06	3,815265E+08	1,020676E+09	1,394358E+09	1,394383E+09	1,020738E+09	3,815784E+08
-2886	8,032452E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030462E+06	3,815949E+08	1,020698E+09	1,394314E+09	1,394294E+09	1,020633E+09	3,815084E+08
-2885	8,026464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027673E+06	3,815073E+08	1,020616E+09	1,394243E+09	1,394250E+09	1,020648E+09	3,815776E+08
-2884	8,033120E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031999E+06	3,815224E+08	1,020601E+09	1,394221E+09	1,394225E+09	1,020608E+09	3,815106E+08
-2883	8,030797E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030346E+06	3,815560E+08	1,020614E+09	1,394193E+09	1,394149E+09	1,020523E+09	3,814894E+08
-2882	8,028549E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028284E+06	3,814579E+08	1,020525E+09	1,394155E+09	1,394176E+09	1,020587E+09	3,815480E+08
-2881	8,034118E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034194E+06	3,815355E+08	1,020567E+09	1,394163E+09	1,394164E+09	1,020547E+09	3,814667E+08
-2880	8,028546E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029832E+06	3,815292E+08	1,020579E+09	1,394165E+09	1,394141E+09	1,020543E+09	3,815179E+08
-2879	8,030074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029914E+06	3,814712E+08	1,020543E+09	1,394177E+09	1,394204E+09	1,020613E+09	3,815451E+08
-2878	8,032792E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032954E+06	3,815616E+08	1,020618E+09	1,394216E+09	1,394202E+09	1,020568E+09	3,814828E+08
-2877	8,028528E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026102E+06	3,815051E+08	1,020607E+09	1,394237E+09	1,394241E+09	1,020637E+09	3,815713E+08
-2876	8,031467E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031469E+06	3,815111E+08	1,020622E+09	1,394284E+09	1,394307E+09	1,020679E+09	3,815495E+08
-2875	8,031859E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030367E+06	3,815939E+08	1,020698E+09	1,394319E+09	1,394294E+09	1,020633E+09	3,815186E+08
-2874	8,027182E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026923E+06	3,815166E+08	1,020666E+09	1,394332E+09	1,394354E+09	1,020724E+09	3,815986E+08
-2873	8,031293E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033477E+06	3,815815E+08	1,020719E+09	1,394369E+09	1,394371E+09	1,020712E+09	3,815367E+08
-2872	8,029266E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027659E+06	3,815989E+08	1,020756E+09	1,394395E+09	1,394350E+09	1,020677E+09	3,815565E+08
-2871	8,027036E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028470E+06	3,815102E+08	1,020677E+09	1,394369E+09	1,394390E+09	1,020740E+09	3,815989E+08
-2870	8,033288E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031582E+06	3,815857E+08	1,020700E+09	1,394344E+09	1,394341E+09	1,020670E+09	3,815136E+08
-2869	8,027850E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027218E+06	3,815423E+08	1,020661E+09	1,394289E+09	1,394282E+09	1,020657E+09	3,815664E+08
-2868	8,029890E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031022E+06	3,814990E+08	1,020596E+09	1,394240E+09	1,394263E+09	1,020655E+09	3,815529E+08
-2867	8,033176E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031686E+06	3,815735E+08	1,020625E+09	1,394202E+09	1,394166E+09	1,020532E+09	3,814730E+08
-2866	8,027048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028069E+06	3,814781E+08	1,020542E+09	1,394144E+09	1,394141E+09	1,020556E+09	3,815391E+08
-2865	8,033192E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032647E+06	3,814916E+08	1,020520E+09	1,394118E+09	1,394124E+09	1,020532E+09	3,814806E+08
-2864	8,031140E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031557E+06	3,815304E+08	1,020541E+09	1,394105E+09	1,394063E+09	1,020455E+09	3,814625E+08
-2863	8,029066E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029031E+06	3,814348E+08	1,020453E+09	1,394059E+09	1,394089E+09	1,020528E+09	3,815260E+08
-2862	8,034284E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034457E+06	3,815069E+08	1,020491E+09	1,394058E+09	1,394064E+09	1,020484E+09	3,814524E+08
-2861	8,029846E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029484E+06	3,815004E+08	1,020512E+09	1,394070E+09	1,394048E+09	1,020479E+09	3,814996E+08
-2860	8,031106E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029631E+06	3,814399E+08	1,020475E+09	1,394093E+09	1,394121E+09	1,020553E+09	3,815295E+08
-2859	8,034003E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033726E+06	3,815408E+08	1,020553E+09	1,394129E+09	1,394114E+09	1,020498E+09	3,814560E+08
-2858	8,028997E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,026898E+06	3,814878E+08	1,020548E+09	1,394156E+09	1,394161E+09	1,020571E+09	3,815391E+08
-2857	8,030833E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032940E+06	3,815000E+08	1,020568E+09	1,394200E+09	1,394223E+09	1,020619E+09	3,815254E+08



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	8,031689E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031734E+06	3,815855E+08	1,020660E+09	1,394259E+09	1,394221E+09	1,020571E+09	3,814950E+08
-2855	8,027268E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027399E+06	3,814990E+08	1,020619E+09	1,394267E+09	1,394283E+09	1,020667E+09	3,815780E+08
-2854	8,031685E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033036E+06	3,815480E+08	1,020647E+09	1,394282E+09	1,394288E+09	1,020652E+09	3,815213E+08
-2853	8,030695E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027352E+06	3,815625E+08	1,020674E+09	1,394292E+09	1,394260E+09	1,020615E+09	3,815341E+08
-2852	8,027974E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028761E+06	3,814760E+08	1,020585E+09	1,394253E+09	1,394287E+09	1,020673E+09	3,815780E+08
-2851	8,034241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032850E+06	3,815623E+08	1,020613E+09	1,394215E+09	1,394213E+09	1,020579E+09	3,814812E+08
-2850	8,028232E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028210E+06	3,815190E+08	1,020584E+09	1,394171E+09	1,394155E+09	1,020559E+09	3,815282E+08
-2849	8,029907E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031771E+06	3,814730E+08	1,020520E+09	1,394130E+09	1,394141E+09	1,020563E+09	3,815213E+08
-2848	8,033739E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032594E+06	3,815465E+08	1,020557E+09	1,394116E+09	1,394067E+09	1,020447E+09	3,814424E+08
-2847	8,027994E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028564E+06	3,814489E+08	1,020467E+09	1,394052E+09	1,394054E+09	1,020487E+09	3,815113E+08
-2846	8,033678E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032976E+06	3,814581E+08	1,020432E+09	1,394007E+09	1,394026E+09	1,020466E+09	3,814606E+08
-2845	8,032191E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032097E+06	3,815034E+08	1,020462E+09	1,393994E+09	1,393964E+09	1,020392E+09	3,814398E+08
-2844	8,029805E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029414E+06	3,814092E+08	1,020381E+09	1,393958E+09	1,393990E+09	1,020463E+09	3,815072E+08
-2843	8,035016E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035159E+06	3,814832E+08	1,020421E+09	1,393958E+09	1,393958E+09	1,020402E+09	3,814250E+08
-2842	8,030570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029599E+06	3,814737E+08	1,020445E+09	1,393983E+09	1,393958E+09	1,020404E+09	3,814675E+08
-2841	8,031055E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030385E+06	3,814165E+08	1,020407E+09	1,394004E+09	1,394035E+09	1,020488E+09	3,815038E+08
-2840	8,034129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034999E+06	3,815260E+08	1,020501E+09	1,394059E+09	1,394040E+09	1,020440E+09	3,814328E+08
-2839	8,029170E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027850E+06	3,814768E+08	1,020501E+09	1,394084E+09	1,394091E+09	1,020522E+09	3,815181E+08
-2838	8,030665E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033147E+06	3,814795E+08	1,020513E+09	1,394119E+09	1,394141E+09	1,020564E+09	3,815124E+08
-2837	8,032827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031329E+06	3,815598E+08	1,020602E+09	1,394180E+09	1,394145E+09	1,020517E+09	3,814779E+08
-2836	8,028317E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027179E+06	3,814679E+08	1,020549E+09	1,394184E+09	1,394204E+09	1,020610E+09	3,815620E+08
-2835	8,032983E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033623E+06	3,815197E+08	1,020567E+09	1,394179E+09	1,394189E+09	1,020577E+09	3,814938E+08
-2834	8,031387E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028295E+06	3,815377E+08	1,020595E+09	1,394182E+09	1,394155E+09	1,020536E+09	3,814989E+08
-2833	8,027705E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030204E+06	3,814574E+08	1,020511E+09	1,394137E+09	1,394169E+09	1,020589E+09	3,815470E+08
-2832	8,034362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034185E+06	3,815450E+08	1,020554E+09	1,394122E+09	1,394104E+09	1,020492E+09	3,814495E+08
-2831	8,028590E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028779E+06	3,814948E+08	1,020518E+09	1,394079E+09	1,394056E+09	1,020479E+09	3,814963E+08
-2830	8,030359E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031447E+06	3,814350E+08	1,020435E+09	1,394024E+09	1,394040E+09	1,020486E+09	3,814972E+08
-2829	8,035048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032651E+06	3,815082E+08	1,020465E+09	1,394002E+09	1,393970E+09	1,020380E+09	3,814161E+08
-2828	8,029031E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029030E+06	3,814146E+08	1,020373E+09	1,393933E+09	1,393950E+09	1,020421E+09	3,814903E+08
-2827	8,034615E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034129E+06	3,814323E+08	1,020345E+09	1,393880E+09	1,393903E+09	1,020382E+09	3,814326E+08
-2826	8,032817E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032856E+06	3,814780E+08	1,020386E+09	1,393880E+09	1,393846E+09	1,020305E+09	3,814072E+08
-2825	8,029952E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030016E+06	3,813855E+08	1,020311E+09	1,393856E+09	1,393881E+09	1,020382E+09	3,814803E+08
-2824	8,035449E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035992E+06	3,814619E+08	1,020366E+09	1,393884E+09	1,393874E+09	1,020332E+09	3,813979E+08
-2823	8,031103E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030224E+06	3,814554E+08	1,020389E+09	1,393910E+09	1,393888E+09	1,020349E+09	3,814418E+08
-2822	8,031007E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030877E+06	3,813961E+08	1,020347E+09	1,393922E+09	1,393959E+09	1,020437E+09	3,814875E+08
-2821	8,034853E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035379E+06	3,815088E+08	1,020448E+09	1,393979E+09	1,393968E+09	1,020394E+09	3,814169E+08

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												
-2820	8,029920E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027951E+06	3,814566E+08	1,020450E+09	1,394013E+09	1,394017E+09	1,020472E+09	3,815050E+08
-2819	8,031575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033300E+06	3,814544E+08	1,020452E+09	1,394036E+09	1,394055E+09	1,020497E+09	3,814905E+08
-2818	8,033820E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031099E+06	3,815285E+08	1,020533E+09	1,394093E+09	1,394060E+09	1,020449E+09	3,814484E+08
-2817	8,028442E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,027937E+06	3,814407E+08	1,020470E+09	1,394081E+09	1,394108E+09	1,020541E+09	3,815351E+08
-2816	8,033290E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034862E+06	3,814990E+08	1,020497E+09	1,394082E+09	1,394091E+09	1,020505E+09	3,814652E+08
-2815	8,031543E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029524E+06	3,815206E+08	1,020527E+09	1,394079E+09	1,394051E+09	1,020463E+09	3,814699E+08
-2814	8,027780E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030515E+06	3,814304E+08	1,020438E+09	1,394029E+09	1,394054E+09	1,020508E+09	3,815232E+08
-2813	8,035528E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034072E+06	3,815129E+08	1,020478E+09	1,394018E+09	1,394000E+09	1,020417E+09	3,814247E+08
-2812	8,029856E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028832E+06	3,814598E+08	1,020436E+09	1,393977E+09	1,393957E+09	1,020406E+09	3,814721E+08
-2811	8,031641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032073E+06	3,814022E+08	1,020343E+09	1,393904E+09	1,393926E+09	1,020402E+09	3,814651E+08
-2810	8,035723E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033721E+06	3,814801E+08	1,020379E+09	1,393882E+09	1,393855E+09	1,020297E+09	3,813808E+08
-2809	8,028967E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030518E+06	3,813947E+08	1,020295E+09	1,393815E+09	1,393829E+09	1,020337E+09	3,814602E+08
-2808	8,034766E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035307E+06	3,814127E+08	1,020285E+09	1,393789E+09	1,393797E+09	1,020300E+09	3,814034E+08
-2807	8,033188E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033402E+06	3,814545E+08	1,020324E+09	1,393794E+09	1,393756E+09	1,020235E+09	3,813794E+08
-2806	8,030316E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029650E+06	3,813525E+08	1,020238E+09	1,393764E+09	1,393792E+09	1,020317E+09	3,814593E+08
-2805	8,036417E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035979E+06	3,814318E+08	1,020292E+09	1,393791E+09	1,393796E+09	1,020280E+09	3,813788E+08
-2804	8,032052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030509E+06	3,814321E+08	1,020323E+09	1,393822E+09	1,393809E+09	1,020299E+09	3,814260E+08
-2803	8,031710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031685E+06	3,813778E+08	1,020286E+09	1,393830E+09	1,393865E+09	1,020371E+09	3,814660E+08
-2802	8,035483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035657E+06	3,814879E+08	1,020394E+09	1,393899E+09	1,393880E+09	1,020328E+09	3,813924E+08
-2801	8,030165E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028443E+06	3,814350E+08	1,020393E+09	1,393934E+09	1,393932E+09	1,020407E+09	3,814826E+08
-2800	8,032050E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033946E+06	3,814325E+08	1,020398E+09	1,393967E+09	1,393980E+09	1,020436E+09	3,814653E+08
-2799	8,034196E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031905E+06	3,815084E+08	1,020469E+09	1,394010E+09	1,393982E+09	1,020392E+09	3,814209E+08
-2798	8,028188E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028735E+06	3,814197E+08	1,020401E+09	1,393980E+09	1,394011E+09	1,020476E+09	3,815128E+08
-2797	8,033820E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035449E+06	3,814783E+08	1,020429E+09	1,393979E+09	1,393992E+09	1,020439E+09	3,814426E+08
-2796	8,032226E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029832E+06	3,814952E+08	1,020460E+09	1,393983E+09	1,393948E+09	1,020389E+09	3,814475E+08
-2795	8,028893E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030661E+06	3,813978E+08	1,020359E+09	1,393922E+09	1,393941E+09	1,020419E+09	3,814927E+08
-2794	8,036595E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034054E+06	3,814746E+08	1,020390E+09	1,393907E+09	1,393889E+09	1,020331E+09	3,813905E+08
-2793	8,030247E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029801E+06	3,814271E+08	1,020343E+09	1,393855E+09	1,393842E+09	1,020324E+09	3,814409E+08
-2792	8,032176E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033379E+06	3,813784E+08	1,020265E+09	1,393792E+09	1,393814E+09	1,020322E+09	3,814339E+08
-2791	8,035878E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035013E+06	3,814584E+08	1,020304E+09	1,393770E+09	1,393743E+09	1,020220E+09	3,813516E+08
-2790	8,029216E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030724E+06	3,813656E+08	1,020218E+09	1,393704E+09	1,393713E+09	1,020257E+09	3,814378E+08
-2789	8,035930E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035083E+06	3,813783E+08	1,020205E+09	1,393687E+09	1,393699E+09	1,020229E+09	3,813818E+08
-2788	8,034529E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033347E+06	3,814213E+08	1,020247E+09	1,393700E+09	1,393666E+09	1,020170E+09	3,813590E+08
-2787	8,031527E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030096E+06	3,813251E+08	1,020161E+09	1,393663E+09	1,393695E+09	1,020245E+09	3,814318E+08
-2786	8,036876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036811E+06	3,814118E+08	1,020229E+09	1,393700E+09	1,393703E+09	1,020213E+09	3,813519E+08
-2785	8,032004E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031700E+06	3,814198E+08	1,020272E+09	1,393741E+09	1,393721E+09	1,020235E+09	3,814022E+08

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												
-2784	8,031711E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032685E+06	3,813661E+08	1,020250E+09	1,393771E+09	1,393791E+09	1,020310E+09	3,814415E+08
-2783	8,035543E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036068E+06	3,814688E+08	1,020345E+09	1,393837E+09	1,393815E+09	1,020276E+09	3,813692E+08
-2782	8,030245E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028386E+06	3,814065E+08	1,020327E+09	1,393853E+09	1,393855E+09	1,020352E+09	3,814637E+08
-2781	8,032663E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034092E+06	3,814034E+08	1,020321E+09	1,393873E+09	1,393902E+09	1,020386E+09	3,814480E+08
-2780	8,035024E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032341E+06	3,814839E+08	1,020396E+09	1,393910E+09	1,393889E+09	1,020334E+09	3,814043E+08
-2779	8,028972E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,029363E+06	3,813960E+08	1,020328E+09	1,393869E+09	1,393894E+09	1,020394E+09	3,814863E+08
-2778	8,034653E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035495E+06	3,814502E+08	1,020361E+09	1,393878E+09	1,393877E+09	1,020353E+09	3,814137E+08
-2777	8,032779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030450E+06	3,814670E+08	1,020386E+09	1,393883E+09	1,393840E+09	1,020304E+09	3,814169E+08
-2776	8,029667E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031499E+06	3,813718E+08	1,020290E+09	1,393831E+09	1,393844E+09	1,020339E+09	3,814590E+08
-2775	8,036869E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035236E+06	3,814500E+08	1,020313E+09	1,393804E+09	1,393792E+09	1,020260E+09	3,813590E+08
-2774	8,030190E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030825E+06	3,814006E+08	1,020260E+09	1,393739E+09	1,393728E+09	1,020248E+09	3,814155E+08
-2773	8,032897E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033917E+06	3,813504E+08	1,020182E+09	1,393677E+09	1,393705E+09	1,020249E+09	3,814109E+08
-2772	8,036804E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035252E+06	3,814260E+08	1,020224E+09	1,393663E+09	1,393634E+09	1,020143E+09	3,813294E+08
-2771	8,030490E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030616E+06	3,813293E+08	1,020131E+09	1,393589E+09	1,393596E+09	1,020166E+09	3,814068E+08
-2770	8,036894E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035100E+06	3,813423E+08	1,020120E+09	1,393578E+09	1,393590E+09	1,020147E+09	3,813503E+08
-2769	8,034801E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034449E+06	3,813965E+08	1,020168E+09	1,393595E+09	1,393565E+09	1,020097E+09	3,813304E+08
-2768	8,031766E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031560E+06	3,813132E+08	1,020109E+09	1,393579E+09	1,393606E+09	1,020178E+09	3,814035E+08
-2767	8,036552E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038128E+06	3,814011E+08	1,020183E+09	1,393625E+09	1,393623E+09	1,020156E+09	3,813291E+08
-2766	8,032012E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031857E+06	3,813995E+08	1,020221E+09	1,393670E+09	1,393643E+09	1,020178E+09	3,813859E+08
-2765	8,032436E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032471E+06	3,813389E+08	1,020188E+09	1,393700E+09	1,393728E+09	1,020262E+09	3,814270E+08
-2764	8,036613E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035814E+06	3,814381E+08	1,020277E+09	1,393759E+09	1,393746E+09	1,020228E+09	3,813548E+08
-2763	8,031247E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,028711E+06	3,813797E+08	1,020251E+09	1,393753E+09	1,393761E+09	1,020286E+09	3,814408E+08
-2762	8,033243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034666E+06	3,813810E+08	1,020252E+09	1,393771E+09	1,393797E+09	1,020313E+09	3,814235E+08
-2761	8,035264E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033374E+06	3,814657E+08	1,020334E+09	1,393813E+09	1,393783E+09	1,020257E+09	3,813788E+08
-2760	8,029470E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030287E+06	3,813787E+08	1,020278E+09	1,393790E+09	1,393799E+09	1,020313E+09	3,814542E+08
-2759	8,034848E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035916E+06	3,814245E+08	1,020296E+09	1,393794E+09	1,393789E+09	1,020279E+09	3,813834E+08
-2758	8,033024E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030726E+06	3,814327E+08	1,020303E+09	1,393782E+09	1,393744E+09	1,020231E+09	3,813901E+08
-2757	8,030404E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031977E+06	3,813381E+08	1,020195E+09	1,393715E+09	1,393746E+09	1,020273E+09	3,814355E+08
-2756	8,037702E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035936E+06	3,814190E+08	1,020222E+09	1,393682E+09	1,393679E+09	1,020188E+09	3,813381E+08
-2755	8,031199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031512E+06	3,813690E+08	1,020168E+09	1,393607E+09	1,393594E+09	1,020154E+09	3,813869E+08
-2754	8,034060E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033987E+06	3,813161E+08	1,020096E+09	1,393556E+09	1,393574E+09	1,020153E+09	3,813803E+08
-2753	8,037461E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035978E+06	3,813941E+08	1,020139E+09	1,393551E+09	1,393517E+09	1,020053E+09	3,812977E+08
-2752	8,031304E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031643E+06	3,813079E+08	1,020065E+09	1,393495E+09	1,393497E+09	1,020084E+09	3,813690E+08
-2751	8,036613E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036558E+06	3,813267E+08	1,020059E+09	1,393490E+09	1,393502E+09	1,020080E+09	3,813198E+08
-2750	8,034439E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035548E+06	3,813813E+08	1,020111E+09	1,393511E+09	1,393478E+09	1,020035E+09	3,813081E+08
-2749	8,032076E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032085E+06	3,812951E+08	1,020054E+09	1,393506E+09	1,393536E+09	1,020128E+09	3,813879E+08

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	8,037289E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038063E+06	3,813753E+08	1,020128E+09	1,393557E+09	1,393555E+09	1,020107E+09	3,813183E+08
-2747	8,033317E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031242E+06	3,813646E+08	1,020147E+09	1,393583E+09	1,393560E+09	1,020115E+09	3,813665E+08
-2746	8,033461E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032098E+06	3,813042E+08	1,020110E+09	1,393605E+09	1,393639E+09	1,020200E+09	3,814056E+08
-2745	8,037073E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036536E+06	3,814125E+08	1,020200E+09	1,393657E+09	1,393653E+09	1,020163E+09	3,813318E+08
-2744	8,031603E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030073E+06	3,813688E+08	1,020198E+09	1,393663E+09	1,393666E+09	1,020213E+09	3,814105E+08
-2743	8,032950E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035890E+06	3,813695E+08	1,020203E+09	1,393689E+09	1,393704E+09	1,020242E+09	3,813969E+08
-2742	8,035398E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033774E+06	3,814434E+08	1,020275E+09	1,393730E+09	1,393690E+09	1,020184E+09	3,813554E+08
-2741	8,030266E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030507E+06	3,813491E+08	1,020205E+09	1,393706E+09	1,393721E+09	1,020250E+09	3,814315E+08
-2740	8,035890E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036095E+06	3,813917E+08	1,020216E+09	1,393697E+09	1,393702E+09	1,020217E+09	3,813624E+08
-2739	8,033940E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031421E+06	3,814004E+08	1,020210E+09	1,393659E+09	1,393630E+09	1,020151E+09	3,813613E+08
-2738	8,031141E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032669E+06	3,813101E+08	1,020109E+09	1,393589E+09	1,393618E+09	1,020186E+09	3,814064E+08
-2737	8,038031E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037027E+06	3,813919E+08	1,020139E+09	1,393562E+09	1,393552E+09	1,020095E+09	3,813076E+08
-2736	8,031893E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032600E+06	3,813466E+08	1,020099E+09	1,393502E+09	1,393477E+09	1,020058E+09	3,813487E+08
-2735	8,034293E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034660E+06	3,812888E+08	1,020021E+09	1,393454E+09	1,393468E+09	1,020067E+09	3,813454E+08
-2734	8,037564E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036553E+06	3,813624E+08	1,020056E+09	1,393444E+09	1,393415E+09	1,019977E+09	3,812695E+08
-2733	8,031951E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032263E+06	3,812811E+08	1,019984E+09	1,393395E+09	1,393411E+09	1,020024E+09	3,813467E+08
-2732	8,037211E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037056E+06	3,813023E+08	1,019990E+09	1,393396E+09	1,393414E+09	1,020022E+09	3,813051E+08
-2731	8,035540E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035522E+06	3,813523E+08	1,020040E+09	1,393413E+09	1,393380E+09	1,019967E+09	3,812898E+08
-2730	8,033426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031655E+06	3,812640E+08	1,019986E+09	1,393417E+09	1,393441E+09	1,020059E+09	3,813684E+08
-2729	8,038090E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038273E+06	3,813440E+08	1,020054E+09	1,393469E+09	1,393470E+09	1,020043E+09	3,812972E+08
-2728	8,034237E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032145E+06	3,813469E+08	1,020088E+09	1,393500E+09	1,393480E+09	1,020051E+09	3,813357E+08
-2727	8,033069E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033560E+06	3,812929E+08	1,020054E+09	1,393520E+09	1,393555E+09	1,020139E+09	3,813781E+08
-2726	8,036681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037633E+06	3,814002E+08	1,020147E+09	1,393573E+09	1,393564E+09	1,020100E+09	3,813094E+08
-2725	8,031798E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030814E+06	3,813536E+08	1,020146E+09	1,393591E+09	1,393591E+09	1,020154E+09	3,813892E+08
-2724	8,033511E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035965E+06	3,813452E+08	1,020148E+09	1,393617E+09	1,393627E+09	1,020181E+09	3,813788E+08
-2723	8,036535E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033431E+06	3,814075E+08	1,020195E+09	1,393633E+09	1,393598E+09	1,020113E+09	3,813306E+08
-2722	8,031315E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030547E+06	3,813133E+08	1,020117E+09	1,393595E+09	1,393615E+09	1,020176E+09	3,814051E+08
-2721	8,036430E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036996E+06	3,813609E+08	1,020124E+09	1,393574E+09	1,393589E+09	1,020140E+09	3,813361E+08
-2720	8,034562E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033081E+06	3,813826E+08	1,020137E+09	1,393541E+09	1,393509E+09	1,020062E+09	3,813256E+08
-2719	8,031152E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033870E+06	3,812907E+08	1,020038E+09	1,393478E+09	1,393497E+09	1,020096E+09	3,813736E+08
-2718	8,038328E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037496E+06	3,813612E+08	1,020060E+09	1,393453E+09	1,393437E+09	1,020006E+09	3,812776E+08
-2717	8,032751E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032947E+06	3,813133E+08	1,020013E+09	1,393400E+09	1,393381E+09	1,019980E+09	3,813199E+08
-2716	8,035296E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034920E+06	3,812568E+08	1,019940E+09	1,393352E+09	1,393373E+09	1,019998E+09	3,813217E+08
-2715	8,038439E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037037E+06	3,813307E+08	1,019970E+09	1,393327E+09	1,393306E+09	1,019902E+09	3,812447E+08
-2714	8,032992E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032601E+06	3,812551E+08	1,019911E+09	1,393289E+09	1,393301E+09	1,019951E+09	3,813233E+08
-2713	8,037695E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037738E+06	3,812771E+08	1,019923E+09	1,393303E+09	1,393318E+09	1,019951E+09	3,812832E+08



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	8,036421E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036217E+06	3,813323E+08	1,019983E+09	1,393331E+09	1,393295E+09	1,019895E+09	3,812586E+08
-2711	8,033487E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032307E+06	3,812424E+08	1,019923E+09	1,393335E+09	1,393361E+09	1,019996E+09	3,813396E+08
-2710	8,037877E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038893E+06	3,813188E+08	1,019982E+09	1,393377E+09	1,393387E+09	1,019984E+09	3,812732E+08
-2709	8,034402E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033052E+06	3,813291E+08	1,020022E+09	1,393413E+09	1,393404E+09	1,019998E+09	3,813154E+08
-2708	8,033316E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034337E+06	3,812779E+08	1,020003E+09	1,393439E+09	1,393472E+09	1,020082E+09	3,813626E+08
-2707	8,037533E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037586E+06	3,813759E+08	1,020087E+09	1,393484E+09	1,393470E+09	1,020032E+09	3,812915E+08
-2706	8,033104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,030481E+06	3,813254E+08	1,020084E+09	1,393507E+09	1,393498E+09	1,020085E+09	3,813673E+08
-2705	8,034355E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036177E+06	3,813139E+08	1,020073E+09	1,393527E+09	1,393541E+09	1,020113E+09	3,813542E+08
-2704	8,037422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034509E+06	3,813872E+08	1,020127E+09	1,393537E+09	1,393505E+09	1,020040E+09	3,812957E+08
-2703	8,031053E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032141E+06	3,812973E+08	1,020048E+09	1,393489E+09	1,393511E+09	1,020100E+09	3,813731E+08
-2702	8,036309E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037972E+06	3,813378E+08	1,020049E+09	1,393463E+09	1,393476E+09	1,020061E+09	3,813091E+08
-2701	8,035078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033901E+06	3,813556E+08	1,020059E+09	1,393439E+09	1,393406E+09	1,019984E+09	3,812995E+08
-2700	8,032220E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033749E+06	3,812560E+08	1,019957E+09	1,393372E+09	1,393391E+09	1,020015E+09	3,813486E+08
-2699	8,039679E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037017E+06	3,813157E+08	1,019959E+09	1,393327E+09	1,393319E+09	1,019920E+09	3,812495E+08
-2698	8,034125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032999E+06	3,812749E+08	1,019916E+09	1,393273E+09	1,393259E+09	1,019897E+09	3,812891E+08
-2697	8,035857E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035787E+06	3,812272E+08	1,019850E+09	1,393230E+09	1,393258E+09	1,019918E+09	3,812936E+08
-2696	8,039004E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038663E+06	3,813158E+08	1,019904E+09	1,393221E+09	1,393195E+09	1,019821E+09	3,812115E+08
-2695	8,033065E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033760E+06	3,812390E+08	1,019853E+09	1,393198E+09	1,393201E+09	1,019875E+09	3,812942E+08
-2694	8,037785E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038199E+06	3,812507E+08	1,019856E+09	1,393217E+09	1,393229E+09	1,019883E+09	3,812591E+08
-2693	8,037020E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036725E+06	3,813062E+08	1,019913E+09	1,393253E+09	1,393225E+09	1,019840E+09	3,812361E+08
-2692	8,033998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032799E+06	3,812216E+08	1,019862E+09	1,393252E+09	1,393285E+09	1,019943E+09	3,813206E+08
-2691	8,038264E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039188E+06	3,812955E+08	1,019916E+09	1,393281E+09	1,393295E+09	1,019925E+09	3,812551E+08
-2690	8,035241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033270E+06	3,813114E+08	1,019970E+09	1,393328E+09	1,393309E+09	1,019935E+09	3,812952E+08
-2689	8,033747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034799E+06	3,812572E+08	1,019950E+09	1,393365E+09	1,393390E+09	1,020018E+09	3,813423E+08
-2688	8,038474E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038080E+06	3,813574E+08	1,020036E+09	1,393411E+09	1,393390E+09	1,019965E+09	3,812619E+08
-2687	8,033296E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031164E+06	3,813024E+08	1,020021E+09	1,393425E+09	1,393418E+09	1,020020E+09	3,813373E+08
-2686	8,034324E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036755E+06	3,812853E+08	1,019994E+09	1,393427E+09	1,393450E+09	1,020050E+09	3,813284E+08
-2685	8,037659E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035448E+06	3,813615E+08	1,020046E+09	1,393432E+09	1,393412E+09	1,019976E+09	3,812722E+08
-2684	8,031598E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032838E+06	3,812737E+08	1,019975E+09	1,393381E+09	1,393400E+09	1,020026E+09	3,813522E+08
-2683	8,037481E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037673E+06	3,812999E+08	1,019959E+09	1,393341E+09	1,393350E+09	1,019973E+09	3,812854E+08
-2682	8,036628E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033745E+06	3,813172E+08	1,019969E+09	1,393317E+09	1,393279E+09	1,019894E+09	3,812699E+08
-2681	8,033350E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034129E+06	3,812195E+08	1,019864E+09	1,393254E+09	1,393275E+09	1,019927E+09	3,813151E+08
-2680	8,040425E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038468E+06	3,812937E+08	1,019879E+09	1,393210E+09	1,393202E+09	1,019831E+09	3,812094E+08
-2679	8,033863E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034808E+06	3,812600E+08	1,019848E+09	1,393165E+09	1,393146E+09	1,019813E+09	3,812526E+08
-2678	8,035554E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036943E+06	3,812074E+08	1,019784E+09	1,393130E+09	1,393152E+09	1,019841E+09	3,812646E+08
-2677	8,039161E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039590E+06	3,812923E+08	1,019839E+09	1,393138E+09	1,393110E+09	1,019755E+09	3,811886E+08

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												
-2676	8,033932E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033757E+06	3,812108E+08	1,019787E+09	1,393115E+09	1,393119E+09	1,019814E+09	3,812749E+08
-2675	8,038731E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037604E+06	3,812099E+08	1,019769E+09	1,393113E+09	1,393136E+09	1,019821E+09	3,812403E+08
-2674	8,038233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036607E+06	3,812741E+08	1,019832E+09	1,393145E+09	1,393125E+09	1,019779E+09	3,812158E+08
-2673	8,034541E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033365E+06	3,811990E+08	1,019793E+09	1,393155E+09	1,393190E+09	1,019879E+09	3,812995E+08
-2672	8,038827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040276E+06	3,812849E+08	1,019868E+09	1,393197E+09	1,393201E+09	1,019855E+09	3,812288E+08
-2671	8,035499E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034052E+06	3,812984E+08	1,019927E+09	1,393260E+09	1,393226E+09	1,019866E+09	3,812683E+08
-2670	8,033904E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035128E+06	3,812330E+08	1,019893E+09	1,393294E+09	1,393315E+09	1,019957E+09	3,813185E+08
-2669	8,038972E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038585E+06	3,813315E+08	1,019970E+09	1,393338E+09	1,393326E+09	1,019915E+09	3,812406E+08
-2668	8,033812E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,031858E+06	3,812796E+08	1,019953E+09	1,393335E+09	1,393335E+09	1,019965E+09	3,813169E+08
-2667	8,034845E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036838E+06	3,812538E+08	1,019911E+09	1,393312E+09	1,393342E+09	1,019982E+09	3,813088E+08
-2666	8,038703E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035743E+06	3,813333E+08	1,019969E+09	1,393317E+09	1,393291E+09	1,019897E+09	3,812477E+08
-2665	8,032322E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033268E+06	3,812433E+08	1,019896E+09	1,393272E+09	1,393284E+09	1,019938E+09	3,813229E+08
-2664	8,038530E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038340E+06	3,812728E+08	1,019881E+09	1,393228E+09	1,393231E+09	1,019879E+09	3,812469E+08
-2663	8,036805E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034871E+06	3,812898E+08	1,019887E+09	1,393204E+09	1,393163E+09	1,019802E+09	3,812294E+08
-2662	8,033297E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035182E+06	3,811913E+08	1,019777E+09	1,393136E+09	1,393161E+09	1,019844E+09	3,812801E+08
-2661	8,040340E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039888E+06	3,812705E+08	1,019801E+09	1,393105E+09	1,393100E+09	1,019759E+09	3,811834E+08
-2660	8,034420E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035613E+06	3,812377E+08	1,019782E+09	1,393067E+09	1,393043E+09	1,019741E+09	3,812315E+08
-2659	8,036650E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036404E+06	3,811689E+08	1,019701E+09	1,393025E+09	1,393047E+09	1,019767E+09	3,812462E+08
-2658	8,040724E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039259E+06	3,812541E+08	1,019756E+09	1,393033E+09	1,393007E+09	1,019685E+09	3,811669E+08
-2657	8,035079E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033880E+06	3,811781E+08	1,019705E+09	1,393013E+09	1,393023E+09	1,019744E+09	3,812501E+08
-2656	8,039379E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038795E+06	3,811921E+08	1,019701E+09	1,393011E+09	1,393035E+09	1,019748E+09	3,812097E+08
-2655	8,038044E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038053E+06	3,812639E+08	1,019780E+09	1,393059E+09	1,393031E+09	1,019709E+09	3,811864E+08
-2654	8,034270E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034334E+06	3,811856E+08	1,019746E+09	1,393082E+09	1,393108E+09	1,019814E+09	3,812741E+08
-2653	8,038776E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040907E+06	3,812662E+08	1,019822E+09	1,393141E+09	1,393138E+09	1,019801E+09	3,812104E+08
-2652	8,036304E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034011E+06	3,812744E+08	1,019874E+09	1,393196E+09	1,393162E+09	1,019816E+09	3,812502E+08
-2651	8,034605E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034610E+06	3,811954E+08	1,019812E+09	1,393199E+09	1,393232E+09	1,019902E+09	3,813008E+08
-2650	8,039910E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038614E+06	3,812997E+08	1,019887E+09	1,393227E+09	1,393224E+09	1,019854E+09	3,812208E+08
-2649	8,034311E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,032698E+06	3,812550E+08	1,019875E+09	1,393223E+09	1,393226E+09	1,019892E+09	3,812940E+08
-2648	8,035571E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037896E+06	3,812352E+08	1,019842E+09	1,393200E+09	1,393220E+09	1,019894E+09	3,812781E+08
-2647	8,039099E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036703E+06	3,813107E+08	1,019901E+09	1,393215E+09	1,393175E+09	1,019804E+09	3,812132E+08
-2646	8,032702E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033926E+06	3,812134E+08	1,019817E+09	1,393169E+09	1,393175E+09	1,019849E+09	3,812863E+08
-2645	8,038795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039241E+06	3,812442E+08	1,019802E+09	1,393132E+09	1,393134E+09	1,019802E+09	3,812163E+08
-2644	8,037207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035927E+06	3,812661E+08	1,019813E+09	1,393100E+09	1,393061E+09	1,019729E+09	3,812018E+08
-2643	8,033906E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035319E+06	3,811582E+08	1,019692E+09	1,393018E+09	1,393046E+09	1,019768E+09	3,812578E+08
-2642	8,041414E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040118E+06	3,812380E+08	1,019720E+09	1,392990E+09	1,392983E+09	1,019684E+09	3,811624E+08
-2641	8,035633E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035734E+06	3,812019E+08	1,019698E+09	1,392962E+09	1,392938E+09	1,019662E+09	3,812072E+08

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												
-2640	8,037981E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036773E+06	3,811371E+08	1,019616E+09	1,392913E+09	1,392938E+09	1,019684E+09	3,812140E+08
-2639	8,041066E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040183E+06	3,812254E+08	1,019674E+09	1,392925E+09	1,392901E+09	1,019604E+09	3,811325E+08
-2638	8,034990E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034826E+06	3,811550E+08	1,019627E+09	1,392907E+09	1,392921E+09	1,019670E+09	3,812186E+08
-2637	8,038998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040174E+06	3,811779E+08	1,019645E+09	1,392929E+09	1,392948E+09	1,019686E+09	3,811890E+08
-2636	8,038472E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038770E+06	3,812508E+08	1,019737E+09	1,392989E+09	1,392951E+09	1,019650E+09	3,811690E+08
-2635	8,035086E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033817E+06	3,811559E+08	1,019686E+09	1,393007E+09	1,393030E+09	1,019757E+09	3,812594E+08
-2634	8,040016E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040657E+06	3,812362E+08	1,019756E+09	1,393060E+09	1,393062E+09	1,019749E+09	3,811941E+08
-2633	8,037266E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034229E+06	3,812464E+08	1,019803E+09	1,393112E+09	1,393086E+09	1,019759E+09	3,812289E+08
-2632	8,035050E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035739E+06	3,811785E+08	1,019744E+09	1,393099E+09	1,393135E+09	1,019833E+09	3,812726E+08
-2631	8,039776E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039867E+06	3,812843E+08	1,019826E+09	1,393131E+09	1,393120E+09	1,019776E+09	3,811902E+08
-2630	8,034145E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033782E+06	3,812360E+08	1,019812E+09	1,393130E+09	1,393122E+09	1,019809E+09	3,812628E+08
-2629	8,035700E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038627E+06	3,812113E+08	1,019778E+09	1,393117E+09	1,393128E+09	1,019818E+09	3,812526E+08
-2628	8,039952E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037060E+06	3,812812E+08	1,019828E+09	1,393122E+09	1,393080E+09	1,019730E+09	3,811863E+08
-2627	8,033566E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033629E+06	3,811713E+08	1,019720E+09	1,393051E+09	1,393068E+09	1,019774E+09	3,812602E+08
-2626	8,039750E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039470E+06	3,812089E+08	1,019707E+09	1,393003E+09	1,393016E+09	1,019726E+09	3,811915E+08
-2625	8,037986E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036710E+06	3,812354E+08	1,019725E+09	1,392980E+09	1,392943E+09	1,019646E+09	3,811759E+08
-2624	8,035029E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036190E+06	3,811328E+08	1,019610E+09	1,392898E+09	1,392919E+09	1,019676E+09	3,812264E+08
-2623	8,042007E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040957E+06	3,812080E+08	1,019640E+09	1,392881E+09	1,392865E+09	1,019591E+09	3,811292E+08
-2622	8,036208E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036545E+06	3,811710E+08	1,019611E+09	1,392852E+09	1,392831E+09	1,019578E+09	3,811723E+08
-2621	8,038130E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037900E+06	3,811123E+08	1,019538E+09	1,392815E+09	1,392843E+09	1,019613E+09	3,811858E+08
-2620	8,041226E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041348E+06	3,812080E+08	1,019609E+09	1,392830E+09	1,392808E+09	1,019539E+09	3,811081E+08
-2619	8,035344E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034953E+06	3,811316E+08	1,019564E+09	1,392815E+09	1,392827E+09	1,019605E+09	3,811982E+08
-2618	8,039585E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040353E+06	3,811559E+08	1,019590E+09	1,392847E+09	1,392861E+09	1,019625E+09	3,811729E+08
-2617	8,039543E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038639E+06	3,812242E+08	1,019679E+09	1,392919E+09	1,392881E+09	1,019593E+09	3,811514E+08
-2616	8,036205E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034114E+06	3,811307E+08	1,019620E+09	1,392922E+09	1,392949E+09	1,019695E+09	3,812342E+08
-2615	8,040288E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041374E+06	3,812111E+08	1,019685E+09	1,392969E+09	1,392976E+09	1,019684E+09	3,811672E+08
-2614	8,037253E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035202E+06	3,812250E+08	1,019730E+09	1,393012E+09	1,392993E+09	1,019692E+09	3,812010E+08
-2613	8,034752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036967E+06	3,811628E+08	1,019685E+09	1,393012E+09	1,393042E+09	1,019766E+09	3,812517E+08
-2612	8,040381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040380E+06	3,812642E+08	1,019769E+09	1,393047E+09	1,393027E+09	1,019706E+09	3,811692E+08
-2611	8,035110E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033343E+06	3,812008E+08	1,019735E+09	1,393032E+09	1,393023E+09	1,019734E+09	3,812398E+08
-2610	8,037000E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038521E+06	3,811766E+08	1,019694E+09	1,393009E+09	1,393026E+09	1,019744E+09	3,812284E+08
-2609	8,041042E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037609E+06	3,812489E+08	1,019741E+09	1,393010E+09	1,392978E+09	1,019655E+09	3,811580E+08
-2608	8,034303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,034926E+06	3,811485E+08	1,019637E+09	1,392928E+09	1,392946E+09	1,019687E+09	3,812259E+08
-2607	8,039887E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040786E+06	3,811866E+08	1,019632E+09	1,392889E+09	1,392894E+09	1,019633E+09	3,811574E+08
-2606	8,038105E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037856E+06	3,812082E+08	1,019645E+09	1,392870E+09	1,392828E+09	1,019555E+09	3,811411E+08
-2605	8,035413E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036966E+06	3,811047E+08	1,019534E+09	1,392800E+09	1,392816E+09	1,019595E+09	3,811983E+08

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°
-2604	8,042735E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041492E+06	3,811756E+08	1,019557E+09	1,392775E+09	1,392764E+09	1,019515E+09	3,811007E+08
-2603	8,036878E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036473E+06	3,811326E+08	1,019515E+09	1,392730E+09	1,392721E+09	1,019504E+09	3,811464E+08
-2602	8,038823E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038360E+06	3,810854E+08	1,019456E+09	1,392695E+09	1,392732E+09	1,019543E+09	3,811644E+08
-2601	8,041957E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041905E+06	3,811847E+08	1,019543E+09	1,392733E+09	1,392710E+09	1,019470E+09	3,810888E+08
-2600	8,036518E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035447E+06	3,811124E+08	1,019506E+09	1,392727E+09	1,392731E+09	1,019531E+09	3,811733E+08
-2599	8,040163E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040839E+06	3,811325E+08	1,019533E+09	1,392773E+09	1,392780E+09	1,019555E+09	3,811468E+08
-2598	8,040048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039150E+06	3,811996E+08	1,019614E+09	1,392841E+09	1,392808E+09	1,019533E+09	3,811231E+08
-2597	8,036140E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035248E+06	3,811142E+08	1,019563E+09	1,392848E+09	1,392878E+09	1,019642E+09	3,812122E+08
-2596	8,040300E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042361E+06	3,811958E+08	1,019630E+09	1,392888E+09	1,392897E+09	1,019629E+09	3,811467E+08
-2595	8,037541E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035287E+06	3,812004E+08	1,019665E+09	1,392919E+09	1,392901E+09	1,019630E+09	3,811817E+08
-2594	8,035454E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037115E+06	3,811380E+08	1,019620E+09	1,392917E+09	1,392947E+09	1,019699E+09	3,812327E+08
-2593	8,041634E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040247E+06	3,812322E+08	1,019696E+09	1,392956E+09	1,392937E+09	1,019635E+09	3,811467E+08
-2592	8,036321E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,033862E+06	3,811708E+08	1,019653E+09	1,392922E+09	1,392915E+09	1,019652E+09	3,812056E+08
-2591	8,037302E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039388E+06	3,811478E+08	1,019609E+09	1,392894E+09	1,392912E+09	1,019657E+09	3,811927E+08
-2590	8,041007E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038955E+06	3,812242E+08	1,019656E+09	1,392889E+09	1,392861E+09	1,019570E+09	3,811232E+08
-2589	8,034253E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036371E+06	3,811289E+08	1,019566E+09	1,392822E+09	1,392831E+09	1,019604E+09	3,811986E+08
-2588	8,040636E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041395E+06	3,811589E+08	1,019558E+09	1,392786E+09	1,392786E+09	1,019552E+09	3,811319E+08
-2587	8,039226E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037711E+06	3,811670E+08	1,019551E+09	1,392754E+09	1,392717E+09	1,019475E+09	3,811154E+08
-2586	8,036778E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036989E+06	3,810682E+08	1,019438E+09	1,392675E+09	1,392704E+09	1,019518E+09	3,811725E+08
-2585	8,043786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041929E+06	3,811421E+08	1,019467E+09	1,392658E+09	1,392655E+09	1,019439E+09	3,810745E+08
-2584	8,037748E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037469E+06	3,811108E+08	1,019437E+09	1,392611E+09	1,392600E+09	1,019419E+09	3,811141E+08
-2583	8,039034E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039319E+06	3,810664E+08	1,019396E+09	1,392601E+09	1,392625E+09	1,019458E+09	3,811338E+08
-2582	8,042161E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042683E+06	3,811631E+08	1,019483E+09	1,392651E+09	1,392623E+09	1,019400E+09	3,810609E+08
-2581	8,036976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036067E+06	3,810920E+08	1,019454E+09	1,392662E+09	1,392661E+09	1,019474E+09	3,811508E+08
-2580	8,040619E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041272E+06	3,811073E+08	1,019472E+09	1,392699E+09	1,392713E+09	1,019504E+09	3,811256E+08
-2579	8,040474E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039003E+06	3,811680E+08	1,019535E+09	1,392745E+09	1,392727E+09	1,019481E+09	3,811034E+08
-2578	8,036500E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035757E+06	3,810938E+08	1,019493E+09	1,392744E+09	1,392784E+09	1,019586E+09	3,811957E+08
-2577	8,041018E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042605E+06	3,811725E+08	1,019567E+09	1,392795E+09	1,392804E+09	1,019567E+09	3,811300E+08
-2576	8,038674E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035705E+06	3,811783E+08	1,019601E+09	1,392822E+09	1,392796E+09	1,019553E+09	3,811557E+08
-2575	8,036204E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037653E+06	3,811127E+08	1,019555E+09	1,392829E+09	1,392849E+09	1,019616E+09	3,812011E+08
-2574	8,042117E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040988E+06	3,812054E+08	1,019620E+09	1,392856E+09	1,392842E+09	1,019560E+09	3,811134E+08
-2573	8,036338E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035293E+06	3,811532E+08	1,019588E+09	1,392829E+09	1,392819E+09	1,019580E+09	3,811755E+08
-2572	8,037402E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040505E+06	3,811290E+08	1,019545E+09	1,392796E+09	1,392812E+09	1,019584E+09	3,811644E+08
-2571	8,041281E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039212E+06	3,811927E+08	1,019576E+09	1,392780E+09	1,392751E+09	1,019494E+09	3,810984E+08
-2570	8,035199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036588E+06	3,810973E+08	1,019482E+09	1,392706E+09	1,392720E+09	1,019527E+09	3,811764E+08
-2569	8,042215E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041098E+06	3,811165E+08	1,019463E+09	1,392670E+09	1,392677E+09	1,019474E+09	3,811074E+08



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												
-2568	8,040671E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038232E+06	3,811283E+08	1,019447E+09	1,392617E+09	1,392589E+09	1,019384E+09	3,810810E+08
-2567	8,037451E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037754E+06	3,810367E+08	1,019345E+09	1,392545E+09	1,392574E+09	1,019421E+09	3,811348E+08
-2566	8,043754E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043174E+06	3,811179E+08	1,019385E+09	1,392537E+09	1,392535E+09	1,019352E+09	3,810406E+08
-2565	8,037847E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038768E+06	3,810968E+08	1,019384E+09	1,392524E+09	1,392498E+09	1,019341E+09	3,810865E+08
-2564	8,039487E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039969E+06	3,810467E+08	1,019345E+09	1,392529E+09	1,392543E+09	1,019391E+09	3,811096E+08
-2563	8,042798E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042569E+06	3,811313E+08	1,019413E+09	1,392568E+09	1,392547E+09	1,019345E+09	3,810412E+08
-2562	8,037914E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036322E+06	3,810665E+08	1,019382E+09	1,392570E+09	1,392585E+09	1,019425E+09	3,811326E+08
-2561	8,041272E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041568E+06	3,810811E+08	1,019402E+09	1,392609E+09	1,392635E+09	1,019454E+09	3,811088E+08
-2560	8,041154E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039720E+06	3,811485E+08	1,019469E+09	1,392644E+09	1,392626E+09	1,019414E+09	3,810792E+08
-2559	8,036680E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036418E+06	3,810756E+08	1,019438E+09	1,392657E+09	1,392682E+09	1,019507E+09	3,811684E+08
-2558	8,041257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043025E+06	3,811496E+08	1,019506E+09	1,392711E+09	1,392713E+09	1,019496E+09	3,811038E+08
-2557	8,039207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036379E+06	3,811584E+08	1,019547E+09	1,392747E+09	1,392712E+09	1,019485E+09	3,811287E+08
-2556	8,036660E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038287E+06	3,810873E+08	1,019488E+09	1,392743E+09	1,392765E+09	1,019551E+09	3,811730E+08
-2555	8,042419E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041141E+06	3,811730E+08	1,019535E+09	1,392747E+09	1,392743E+09	1,019496E+09	3,810899E+08
-2554	8,036858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,035966E+06	3,811275E+08	1,019507E+09	1,392712E+09	1,392711E+09	1,019511E+09	3,811546E+08
-2553	8,038595E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040445E+06	3,810951E+08	1,019464E+09	1,392686E+09	1,392702E+09	1,019509E+09	3,811445E+08
-2552	8,042793E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039500E+06	3,811559E+08	1,019484E+09	1,392656E+09	1,392624E+09	1,019402E+09	3,810688E+08
-2551	8,036403E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037065E+06	3,810619E+08	1,019390E+09	1,392583E+09	1,392592E+09	1,019426E+09	3,811398E+08
-2550	8,042841E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041995E+06	3,810831E+08	1,019365E+09	1,392540E+09	1,392554E+09	1,019384E+09	3,810696E+08
-2549	8,040686E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040018E+06	3,811105E+08	1,019374E+09	1,392504E+09	1,392470E+09	1,019298E+09	3,810450E+08
-2548	8,037441E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039067E+06	3,810203E+08	1,019283E+09	1,392447E+09	1,392467E+09	1,019340E+09	3,811013E+08
-2547	8,043653E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043613E+06	3,810913E+08	1,019318E+09	1,392443E+09	1,392435E+09	1,019280E+09	3,810165E+08
-2546	8,038636E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038980E+06	3,810713E+08	1,019318E+09	1,392438E+09	1,392414E+09	1,019280E+09	3,810673E+08
-2545	8,040765E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039615E+06	3,810120E+08	1,019273E+09	1,392446E+09	1,392468E+09	1,019337E+09	3,810920E+08
-2544	8,043869E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042827E+06	3,810981E+08	1,019328E+09	1,392462E+09	1,392452E+09	1,019282E+09	3,810181E+08
-2543	8,038465E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036919E+06	3,810423E+08	1,019308E+09	1,392467E+09	1,392482E+09	1,019353E+09	3,811063E+08
-2542	8,041160E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042371E+06	3,810597E+08	1,019332E+09	1,392507E+09	1,392534E+09	1,019387E+09	3,810850E+08
-2541	8,041424E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040639E+06	3,811357E+08	1,019425E+09	1,392568E+09	1,392534E+09	1,019346E+09	3,810569E+08
-2540	8,037200E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036970E+06	3,810574E+08	1,019391E+09	1,392592E+09	1,392605E+09	1,019440E+09	3,811428E+08
-2539	8,041710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042856E+06	3,811194E+08	1,019439E+09	1,392631E+09	1,392635E+09	1,019436E+09	3,810825E+08
-2538	8,040005E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036874E+06	3,811349E+08	1,019476E+09	1,392655E+09	1,392632E+09	1,019429E+09	3,811074E+08
-2537	8,037420E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038643E+06	3,810603E+08	1,019416E+09	1,392646E+09	1,392676E+09	1,019492E+09	3,811523E+08
-2536	8,043129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041800E+06	3,811463E+08	1,019456E+09	1,392631E+09	1,392626E+09	1,019418E+09	3,810636E+08
-2535	8,037458E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036725E+06	3,811000E+08	1,019431E+09	1,392603E+09	1,392590E+09	1,019417E+09	3,811226E+08
-2534	8,039184E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040865E+06	3,810608E+08	1,019375E+09	1,392570E+09	1,392586E+09	1,019422E+09	3,811123E+08
-2533	8,043418E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040577E+06	3,811274E+08	1,019404E+09	1,392545E+09	1,392508E+09	1,019314E+09	3,810338E+08

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												
-2532	8,036791E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038135E+06	3,810337E+08	1,019305E+09	1,392468E+09	1,392476E+09	1,019337E+09	3,811011E+08
-2531	8,042749E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042623E+06	3,810518E+08	1,019273E+09	1,392413E+09	1,392431E+09	1,019301E+09	3,810397E+08
-2530	8,040972E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041016E+06	3,810879E+08	1,019296E+09	1,392386E+09	1,392355E+09	1,019220E+09	3,810205E+08
-2529	8,038599E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039022E+06	3,809902E+08	1,019213E+09	1,392351E+09	1,392368E+09	1,019269E+09	3,810812E+08
-2528	8,044950E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043762E+06	3,810568E+08	1,019238E+09	1,392340E+09	1,392332E+09	1,019205E+09	3,809943E+08
-2527	8,039991E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039110E+06	3,810380E+08	1,019240E+09	1,392341E+09	1,392316E+09	1,019203E+09	3,810397E+08
-2526	8,041325E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040123E+06	3,809820E+08	1,019191E+09	1,392343E+09	1,392376E+09	1,019273E+09	3,810659E+08
-2525	8,043979E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044189E+06	3,810837E+08	1,019271E+09	1,392372E+09	1,392357E+09	1,019216E+09	3,809921E+08
-2524	8,038404E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037931E+06	3,810296E+08	1,019259E+09	1,392389E+09	1,392394E+09	1,019284E+09	3,810793E+08
-2523	8,040962E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042605E+06	3,810371E+08	1,019275E+09	1,392428E+09	1,392449E+09	1,019325E+09	3,810666E+08
-2522	8,042199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040799E+06	3,811131E+08	1,019364E+09	1,392492E+09	1,392462E+09	1,019290E+09	3,810403E+08
-2521	8,038483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,036711E+06	3,810259E+08	1,019325E+09	1,392515E+09	1,392535E+09	1,019387E+09	3,811237E+08
-2520	8,042588E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043114E+06	3,810875E+08	1,019356E+09	1,392525E+09	1,392537E+09	1,019370E+09	3,810589E+08
-2519	8,040591E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037628E+06	3,811103E+08	1,019400E+09	1,392548E+09	1,392521E+09	1,019348E+09	3,810778E+08
-2518	8,037430E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039503E+06	3,810363E+08	1,019340E+09	1,392535E+09	1,392563E+09	1,019414E+09	3,811249E+08
-2517	8,043488E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042926E+06	3,811273E+08	1,019396E+09	1,392535E+09	1,392514E+09	1,019333E+09	3,810347E+08
-2516	8,037988E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037718E+06	3,810751E+08	1,019360E+09	1,392507E+09	1,392485E+09	1,019331E+09	3,810890E+08
-2515	8,039669E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041150E+06	3,810255E+08	1,019283E+09	1,392455E+09	1,392476E+09	1,019341E+09	3,810830E+08
-2514	8,044005E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041585E+06	3,810990E+08	1,019313E+09	1,392424E+09	1,392399E+09	1,019236E+09	3,810060E+08
-2513	8,037692E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038604E+06	3,810044E+08	1,019224E+09	1,392354E+09	1,392364E+09	1,019259E+09	3,810729E+08
-2512	8,043350E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043076E+06	3,810207E+08	1,019190E+09	1,392293E+09	1,392305E+09	1,019211E+09	3,810125E+08
-2511	8,041903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041401E+06	3,810575E+08	1,019221E+09	1,392283E+09	1,392239E+09	1,019128E+09	3,809906E+08
-2510	8,039518E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039137E+06	3,809551E+08	1,019129E+09	1,392248E+09	1,392268E+09	1,019193E+09	3,810538E+08
-2509	8,045668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044707E+06	3,810297E+08	1,019165E+09	1,392243E+09	1,392235E+09	1,019133E+09	3,809668E+08
-2508	8,040447E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040109E+06	3,810137E+08	1,019164E+09	1,392244E+09	1,392225E+09	1,019134E+09	3,810088E+08
-2507	8,041041E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040700E+06	3,809564E+08	1,019112E+09	1,392236E+09	1,392277E+09	1,019208E+09	3,810438E+08
-2506	8,044148E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044954E+06	3,810650E+08	1,019206E+09	1,392278E+09	1,392267E+09	1,019154E+09	3,809750E+08
-2505	8,039484E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037749E+06	3,810056E+08	1,019204E+09	1,392313E+09	1,392313E+09	1,019224E+09	3,810616E+08
-2504	8,041913E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042668E+06	3,810087E+08	1,019208E+09	1,392341E+09	1,392359E+09	1,019257E+09	3,810471E+08
-2503	8,043411E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041126E+06	3,810881E+08	1,019299E+09	1,392407E+09	1,392374E+09	1,019220E+09	3,810135E+08
-2502	8,038783E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037596E+06	3,810035E+08	1,019255E+09	1,392422E+09	1,392449E+09	1,019325E+09	3,810967E+08
-2501	8,042518E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044662E+06	3,810767E+08	1,019305E+09	1,392438E+09	1,392442E+09	1,019300E+09	3,810315E+08
-2500	8,040470E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038885E+06	3,810953E+08	1,019346E+09	1,392466E+09	1,392428E+09	1,019272E+09	3,810462E+08
-2499	8,037248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039779E+06	3,810085E+08	1,019268E+09	1,392439E+09	1,392464E+09	1,019340E+09	3,811017E+08
-2498	8,044307E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043174E+06	3,810947E+08	1,019312E+09	1,392432E+09	1,392420E+09	1,019262E+09	3,810126E+08
-2497	8,039426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037658E+06	3,810358E+08	1,019268E+09	1,392395E+09	1,392383E+09	1,019257E+09	3,810629E+08

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												
-2496	8,040754E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041390E+06	3,809863E+08	1,019178E+09	1,392316E+09	1,392345E+09	1,019252E+09	3,810549E+08
-2495	8,044939E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042266E+06	3,810665E+08	1,019219E+09	1,392289E+09	1,392260E+09	1,019138E+09	3,809731E+08
-2494	8,038346E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039181E+06	3,809733E+08	1,019137E+09	1,392231E+09	1,392238E+09	1,019168E+09	3,810419E+08
-2493	8,044071E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044092E+06	3,809974E+08	1,019123E+09	1,392192E+09	1,392190E+09	1,019121E+09	3,809815E+08
-2492	8,042593E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042331E+06	3,810303E+08	1,019148E+09	1,392191E+09	1,392143E+09	1,019046E+09	3,809563E+08
-2491	8,039906E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039631E+06	3,809240E+08	1,019043E+09	1,392141E+09	1,392172E+09	1,019125E+09	3,810272E+08
-2490	8,045909E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045852E+06	3,810056E+08	1,019083E+09	1,392138E+09	1,392145E+09	1,019071E+09	3,809451E+08
-2489	8,041196E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040611E+06	3,809911E+08	1,019096E+09	1,392147E+09	1,392133E+09	1,019071E+09	3,809869E+08
-2488	8,041427E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041086E+06	3,809318E+08	1,019043E+09	1,392134E+09	1,392171E+09	1,019134E+09	3,810233E+08
-2487	8,045020E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045104E+06	3,810408E+08	1,019147E+09	1,392195E+09	1,392171E+09	1,019079E+09	3,809510E+08
-2486	8,040278E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,037837E+06	3,809794E+08	1,019141E+09	1,392234E+09	1,392235E+09	1,019161E+09	3,810367E+08
-2485	8,042310E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043758E+06	3,809921E+08	1,019156E+09	1,392264E+09	1,392279E+09	1,019193E+09	3,810201E+08
-2484	8,043515E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042234E+06	3,810720E+08	1,019240E+09	1,392327E+09	1,392295E+09	1,019158E+09	3,809833E+08
-2483	8,038303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038378E+06	3,809837E+08	1,019187E+09	1,392326E+09	1,392358E+09	1,019264E+09	3,810750E+08
-2482	8,042718E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045296E+06	3,810548E+08	1,019239E+09	1,392348E+09	1,392356E+09	1,019238E+09	3,810154E+08
-2481	8,041826E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038735E+06	3,810637E+08	1,019277E+09	1,392377E+09	1,392340E+09	1,019206E+09	3,810266E+08
-2480	8,038512E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039540E+06	3,809690E+08	1,019175E+09	1,392323E+09	1,392352E+09	1,019259E+09	3,810789E+08
-2479	8,045898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043341E+06	3,810579E+08	1,019218E+09	1,392310E+09	1,392299E+09	1,019173E+09	3,809814E+08
-2478	8,040100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038563E+06	3,810054E+08	1,019175E+09	1,392266E+09	1,392260E+09	1,019169E+09	3,810275E+08
-2477	8,040975E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042982E+06	3,809697E+08	1,019108E+09	1,392198E+09	1,392217E+09	1,019155E+09	3,810177E+08
-2476	8,044913E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043755E+06	3,810469E+08	1,019151E+09	1,392187E+09	1,392147E+09	1,019044E+09	3,809342E+08
-2475	8,038360E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039720E+06	3,809436E+08	1,019057E+09	1,392126E+09	1,392132E+09	1,019087E+09	3,810126E+08
-2474	8,044723E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044673E+06	3,809644E+08	1,019037E+09	1,392090E+09	1,392099E+09	1,019050E+09	3,809585E+08
-2473	8,043921E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042578E+06	3,809933E+08	1,019059E+09	1,392084E+09	1,392049E+09	1,018981E+09	3,809313E+08
-2472	8,040687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039964E+06	3,808899E+08	1,018945E+09	1,392010E+09	1,392053E+09	1,019048E+09	3,810037E+08
-2471	8,046622E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046382E+06	3,809782E+08	1,019003E+09	1,392018E+09	1,392023E+09	1,018989E+09	3,809191E+08
-2470	8,041771E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041018E+06	3,809671E+08	1,019027E+09	1,392045E+09	1,392027E+09	1,018996E+09	3,809615E+08
-2469	8,042013E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042039E+06	3,809172E+08	1,018996E+09	1,392057E+09	1,392078E+09	1,019057E+09	3,809966E+08
-2468	8,045571E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045896E+06	3,810223E+08	1,019095E+09	1,392128E+09	1,392099E+09	1,019013E+09	3,809215E+08
-2467	8,040447E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038362E+06	3,809582E+08	1,019079E+09	1,392156E+09	1,392163E+09	1,019108E+09	3,810136E+08
-2466	8,042342E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044764E+06	3,809744E+08	1,019095E+09	1,392187E+09	1,392212E+09	1,019144E+09	3,810031E+08
-2465	8,044263E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042392E+06	3,810497E+08	1,019183E+09	1,392247E+09	1,392219E+09	1,019106E+09	3,809649E+08
-2464	8,038835E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038390E+06	3,809550E+08	1,019114E+09	1,392225E+09	1,392257E+09	1,019195E+09	3,810574E+08
-2463	8,044033E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044934E+06	3,810196E+08	1,019159E+09	1,392244E+09	1,392249E+09	1,019160E+09	3,809918E+08
-2462	8,042999E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038843E+06	3,810266E+08	1,019186E+09	1,392263E+09	1,392234E+09	1,019130E+09	3,809977E+08
-2461	8,039300E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040824E+06	3,809453E+08	1,019095E+09	1,392205E+09	1,392233E+09	1,019168E+09	3,810420E+08

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												
-2460	8,046010E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044814E+06	3,810359E+08	1,019137E+09	1,392192E+09	1,392180E+09	1,019081E+09	3,809408E+08
-2459	8,039660E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039757E+06	3,809832E+08	1,019095E+09	1,392145E+09	1,392136E+09	1,019082E+09	3,809940E+08
-2458	8,041136E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043884E+06	3,809452E+08	1,019034E+09	1,392095E+09	1,392110E+09	1,019074E+09	3,809919E+08
-2457	8,046096E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043967E+06	3,810133E+08	1,019074E+09	1,392089E+09	1,392049E+09	1,018970E+09	3,809091E+08
-2456	8,039625E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039757E+06	3,809042E+08	1,018960E+09	1,392005E+09	1,392019E+09	1,019007E+09	3,809886E+08
-2455	8,046169E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044939E+06	3,809273E+08	1,018942E+09	1,391967E+09	1,391982E+09	1,018970E+09	3,809304E+08
-2454	8,044629E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043459E+06	3,809639E+08	1,018970E+09	1,391961E+09	1,391935E+09	1,018905E+09	3,809020E+08
-2453	8,041030E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041386E+06	3,808767E+08	1,018885E+09	1,391905E+09	1,391934E+09	1,018960E+09	3,809706E+08
-2452	8,046505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047441E+06	3,809612E+08	1,018948E+09	1,391933E+09	1,391925E+09	1,018909E+09	3,808862E+08
-2451	8,041819E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041302E+06	3,809448E+08	1,018968E+09	1,391965E+09	1,391943E+09	1,018931E+09	3,809361E+08
-2450	8,042406E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042550E+06	3,808930E+08	1,018935E+09	1,391988E+09	1,392015E+09	1,019005E+09	3,809783E+08
-2449	8,046640E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045993E+06	3,809948E+08	1,019030E+09	1,392051E+09	1,392035E+09	1,018969E+09	3,809037E+08
-2448	8,041069E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,038474E+06	3,809294E+08	1,019000E+09	1,392052E+09	1,392071E+09	1,019051E+09	3,809971E+08
-2447	8,043161E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044807E+06	3,809473E+08	1,019025E+09	1,392085E+09	1,392108E+09	1,019078E+09	3,809836E+08
-2446	8,045078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042485E+06	3,810214E+08	1,019112E+09	1,392149E+09	1,392119E+09	1,019037E+09	3,809420E+08
-2445	8,039545E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039385E+06	3,809366E+08	1,019053E+09	1,392129E+09	1,392149E+09	1,019111E+09	3,810269E+08
-2444	8,044544E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045872E+06	3,809960E+08	1,019088E+09	1,392147E+09	1,392151E+09	1,019080E+09	3,809556E+08
-2443	8,042910E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039990E+06	3,810039E+08	1,019106E+09	1,392152E+09	1,392128E+09	1,019053E+09	3,809643E+08
-2442	8,039210E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042269E+06	3,809258E+08	1,019022E+09	1,392103E+09	1,392131E+09	1,019092E+09	3,810133E+08
-2441	8,046588E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045422E+06	3,810109E+08	1,019068E+09	1,392092E+09	1,392075E+09	1,019006E+09	3,809137E+08
-2440	8,040248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039874E+06	3,809491E+08	1,019011E+09	1,392030E+09	1,392017E+09	1,018995E+09	3,809694E+08
-2439	8,042665E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043467E+06	3,809049E+08	1,018945E+09	1,391980E+09	1,391993E+09	1,018990E+09	3,809652E+08
-2438	8,047371E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044156E+06	3,809709E+08	1,018974E+09	1,391966E+09	1,391937E+09	1,018893E+09	3,808803E+08
-2437	8,040641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041037E+06	3,808780E+08	1,018870E+09	1,391876E+09	1,391893E+09	1,018917E+09	3,809536E+08
-2436	8,046385E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046214E+06	3,809019E+08	1,018856E+09	1,391844E+09	1,391861E+09	1,018881E+09	3,808931E+08
-2435	8,044371E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044494E+06	3,809410E+08	1,018892E+09	1,391844E+09	1,391816E+09	1,018822E+09	3,808724E+08
-2434	8,041323E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042053E+06	3,808543E+08	1,018822E+09	1,391820E+09	1,391841E+09	1,018886E+09	3,809476E+08
-2433	8,047540E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047367E+06	3,809321E+08	1,018887E+09	1,391858E+09	1,391848E+09	1,018849E+09	3,808667E+08
-2432	8,042981E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041095E+06	3,809132E+08	1,018894E+09	1,391874E+09	1,391859E+09	1,018871E+09	3,809179E+08
-2431	8,043564E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042716E+06	3,808656E+08	1,018865E+09	1,391894E+09	1,391927E+09	1,018948E+09	3,809569E+08
-2430	8,047101E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046615E+06	3,809721E+08	1,018962E+09	1,391957E+09	1,391948E+09	1,018915E+09	3,808824E+08
-2429	8,041351E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,039911E+06	3,809205E+08	1,018951E+09	1,391965E+09	1,391971E+09	1,018977E+09	3,809685E+08
-2428	8,042968E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045600E+06	3,809284E+08	1,018970E+09	1,392005E+09	1,392019E+09	1,019004E+09	3,809529E+08
-2427	8,045064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042869E+06	3,809962E+08	1,019045E+09	1,392060E+09	1,392029E+09	1,018969E+09	3,809156E+08
-2426	8,039836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040172E+06	3,809107E+08	1,018983E+09	1,392044E+09	1,392065E+09	1,019043E+09	3,810020E+08
-2425	8,045363E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046217E+06	3,809674E+08	1,019012E+09	1,392047E+09	1,392056E+09	1,019015E+09	3,809311E+08



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	8,043382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040400E+06	3,809739E+08	1,019019E+09	1,392028E+09	1,392008E+09	1,018974E+09	3,809402E+08
-2423	8,040259E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042371E+06	3,808949E+08	1,018943E+09	1,391984E+09	1,392007E+09	1,019007E+09	3,809865E+08
-2422	8,047567E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045523E+06	3,809751E+08	1,018984E+09	1,391979E+09	1,391961E+09	1,018924E+09	3,808879E+08
-2421	8,041451E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040896E+06	3,809217E+08	1,018932E+09	1,391919E+09	1,391897E+09	1,018900E+09	3,809345E+08
-2420	8,043494E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044291E+06	3,808725E+08	1,018856E+09	1,391866E+09	1,391882E+09	1,018902E+09	3,809268E+08
-2419	8,047390E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045483E+06	3,809422E+08	1,018881E+09	1,391839E+09	1,391817E+09	1,018810E+09	3,808465E+08
-2418	8,040649E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042451E+06	3,808566E+08	1,018792E+09	1,391766E+09	1,391781E+09	1,018835E+09	3,809244E+08
-2417	8,046874E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046792E+06	3,808767E+08	1,018786E+09	1,391742E+09	1,391755E+09	1,018806E+09	3,808674E+08
-2416	8,044912E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044440E+06	3,809082E+08	1,018812E+09	1,391737E+09	1,391706E+09	1,018743E+09	3,808505E+08
-2415	8,042789E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041565E+06	3,808196E+08	1,018748E+09	1,391724E+09	1,391744E+09	1,018816E+09	3,809238E+08
-2414	8,048483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047559E+06	3,808986E+08	1,018809E+09	1,391764E+09	1,391762E+09	1,018789E+09	3,808449E+08
-2413	8,043775E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042350E+06	3,808967E+08	1,018828E+09	1,391778E+09	1,391761E+09	1,018800E+09	3,808886E+08
-2412	8,043378E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043901E+06	3,808496E+08	1,018804E+09	1,391803E+09	1,391835E+09	1,018880E+09	3,809269E+08
-2411	8,046606E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047456E+06	3,809544E+08	1,018902E+09	1,391866E+09	1,391854E+09	1,018850E+09	3,808594E+08
-2410	8,041474E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040595E+06	3,809011E+08	1,018898E+09	1,391895E+09	1,391891E+09	1,018912E+09	3,809492E+08
-2409	8,043903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045518E+06	3,808995E+08	1,018906E+09	1,391929E+09	1,391943E+09	1,018946E+09	3,809342E+08
-2408	8,046081E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042740E+06	3,809624E+08	1,018962E+09	1,391957E+09	1,391933E+09	1,018902E+09	3,808962E+08
-2407	8,041082E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040397E+06	3,808815E+08	1,018905E+09	1,391935E+09	1,391959E+09	1,018972E+09	3,809759E+08
-2406	8,045933E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046718E+06	3,809401E+08	1,018936E+09	1,391939E+09	1,391947E+09	1,018940E+09	3,809058E+08
-2405	8,043974E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041771E+06	3,809570E+08	1,018954E+09	1,391922E+09	1,391887E+09	1,018880E+09	3,809051E+08
-2404	8,040564E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043075E+06	3,808676E+08	1,018869E+09	1,391883E+09	1,391897E+09	1,018917E+09	3,809493E+08
-2403	8,047718E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046174E+06	3,809414E+08	1,018895E+09	1,391866E+09	1,391851E+09	1,018843E+09	3,808566E+08
-2402	8,041954E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042076E+06	3,808893E+08	1,018841E+09	1,391810E+09	1,391792E+09	1,018820E+09	3,809050E+08
-2401	8,044352E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044852E+06	3,808383E+08	1,018760E+09	1,391742E+09	1,391768E+09	1,018825E+09	3,808991E+08
-2400	8,047813E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045995E+06	3,809075E+08	1,018782E+09	1,391700E+09	1,391683E+09	1,018723E+09	3,808219E+08
-2399	8,041850E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042475E+06	3,808249E+08	1,018710E+09	1,391641E+09	1,391649E+09	1,018745E+09	3,808958E+08
-2398	8,047742E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046841E+06	3,808429E+08	1,018708E+09	1,391637E+09	1,391644E+09	1,018725E+09	3,808432E+08
-2397	8,046084E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045477E+06	3,808869E+08	1,018744E+09	1,391641E+09	1,391602E+09	1,018658E+09	3,808180E+08
-2396	8,043361E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042470E+06	3,807969E+08	1,018680E+09	1,391636E+09	1,391659E+09	1,018744E+09	3,808898E+08
-2395	8,048086E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048920E+06	3,808806E+08	1,018743E+09	1,391672E+09	1,391675E+09	1,018730E+09	3,808202E+08
-2394	8,043675E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043596E+06	3,808830E+08	1,018777E+09	1,391708E+09	1,391685E+09	1,018740E+09	3,808674E+08
-2393	8,043590E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044179E+06	3,808292E+08	1,018753E+09	1,391732E+09	1,391759E+09	1,018825E+09	3,809092E+08
-2392	8,047100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046945E+06	3,809219E+08	1,018832E+09	1,391778E+09	1,391766E+09	1,018788E+09	3,808445E+08
-2391	8,042927E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,040052E+06	3,808675E+08	1,018825E+09	1,391801E+09	1,391802E+09	1,018848E+09	3,809279E+08
-2390	8,044846E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045627E+06	3,808659E+08	1,018824E+09	1,391828E+09	1,391851E+09	1,018883E+09	3,809135E+08
-2389	8,046992E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044134E+06	3,809443E+08	1,018887E+09	1,391845E+09	1,391820E+09	1,018819E+09	3,808636E+08

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												
-2388	8,041131E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041654E+06	3,808623E+08	1,018836E+09	1,391831E+09	1,391849E+09	1,018886E+09	3,809389E+08
-2387	8,045567E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047683E+06	3,809178E+08	1,018865E+09	1,391834E+09	1,391835E+09	1,018858E+09	3,808762E+08
-2386	8,044237E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042718E+06	3,809309E+08	1,018886E+09	1,391837E+09	1,391789E+09	1,018798E+09	3,808776E+08
-2385	8,041566E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043303E+06	3,808342E+08	1,018787E+09	1,391783E+09	1,391801E+09	1,018844E+09	3,809235E+08
-2384	8,048570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046381E+06	3,809008E+08	1,018791E+09	1,391735E+09	1,391732E+09	1,018763E+09	3,808325E+08
-2383	8,043224E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042642E+06	3,808556E+08	1,018744E+09	1,391673E+09	1,391664E+09	1,018735E+09	3,808754E+08
-2382	8,045140E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045477E+06	3,808071E+08	1,018670E+09	1,391613E+09	1,391639E+09	1,018737E+09	3,808713E+08
-2381	8,048522E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047301E+06	3,808851E+08	1,018705E+09	1,391581E+09	1,391549E+09	1,018619E+09	3,807854E+08
-2380	8,042430E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042951E+06	3,807969E+08	1,018637E+09	1,391541E+09	1,391540E+09	1,018652E+09	3,808571E+08
-2379	8,047778E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047484E+06	3,808131E+08	1,018630E+09	1,391538E+09	1,391546E+09	1,018649E+09	3,808141E+08
-2378	8,046501E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046532E+06	3,808621E+08	1,018675E+09	1,391559E+09	1,391521E+09	1,018594E+09	3,807930E+08
-2377	8,043965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043079E+06	3,807734E+08	1,018610E+09	1,391546E+09	1,391578E+09	1,018690E+09	3,808691E+08
-2376	8,048269E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049162E+06	3,808523E+08	1,018667E+09	1,391568E+09	1,391578E+09	1,018669E+09	3,808061E+08
-2375	8,044917E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043302E+06	3,808549E+08	1,018710E+09	1,391612E+09	1,391590E+09	1,018677E+09	3,808491E+08
-2374	8,044541E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043950E+06	3,807973E+08	1,018682E+09	1,391644E+09	1,391672E+09	1,018761E+09	3,808922E+08
-2373	8,048343E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047693E+06	3,808993E+08	1,018763E+09	1,391684E+09	1,391670E+09	1,018711E+09	3,808158E+08
-2372	8,043453E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041026E+06	3,808477E+08	1,018759E+09	1,391709E+09	1,391711E+09	1,018774E+09	3,808917E+08
-2371	8,044259E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047152E+06	3,808514E+08	1,018760E+09	1,391730E+09	1,391753E+09	1,018812E+09	3,808848E+08
-2370	8,046823E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045700E+06	3,809326E+08	1,018837E+09	1,391769E+09	1,391731E+09	1,018747E+09	3,808365E+08
-2369	8,041336E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042200E+06	3,808401E+08	1,018777E+09	1,391749E+09	1,391761E+09	1,018817E+09	3,809142E+08
-2368	8,046123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047282E+06	3,808796E+08	1,018781E+09	1,391731E+09	1,391734E+09	1,018784E+09	3,808572E+08
-2367	8,045861E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042542E+06	3,808898E+08	1,018792E+09	1,391718E+09	1,391682E+09	1,018723E+09	3,808513E+08
-2366	8,042740E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043513E+06	3,807936E+08	1,018682E+09	1,391652E+09	1,391683E+09	1,018766E+09	3,808984E+08
-2365	8,049603E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047782E+06	3,808731E+08	1,018693E+09	1,391592E+09	1,391591E+09	1,018663E+09	3,807961E+08
-2364	8,043602E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043814E+06	3,808298E+08	1,018657E+09	1,391542E+09	1,391526E+09	1,018631E+09	3,808336E+08
-2363	8,045073E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046397E+06	3,807807E+08	1,018589E+09	1,391493E+09	1,391510E+09	1,018640E+09	3,808379E+08
-2362	8,048989E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048297E+06	3,808585E+08	1,018636E+09	1,391493E+09	1,391447E+09	1,018533E+09	3,807553E+08
-2361	8,043472E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043298E+06	3,807678E+08	1,018564E+09	1,391453E+09	1,391454E+09	1,018585E+09	3,808298E+08
-2360	8,048277E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047784E+06	3,807802E+08	1,018546E+09	1,391432E+09	1,391452E+09	1,018585E+09	3,807948E+08
-2359	8,047570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046976E+06	3,808362E+08	1,018600E+09	1,391453E+09	1,391426E+09	1,018534E+09	3,807707E+08
-2358	8,044574E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043498E+06	3,807491E+08	1,018541E+09	1,391449E+09	1,391484E+09	1,018628E+09	3,808506E+08
-2357	8,048892E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050038E+06	3,808318E+08	1,018602E+09	1,391472E+09	1,391475E+09	1,018590E+09	3,807786E+08
-2356	8,045484E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043578E+06	3,808300E+08	1,018646E+09	1,391526E+09	1,391500E+09	1,018601E+09	3,808164E+08
-2355	8,044432E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044762E+06	3,807735E+08	1,018613E+09	1,391553E+09	1,391583E+09	1,018694E+09	3,808657E+08
-2354	8,048564E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048856E+06	3,808807E+08	1,018703E+09	1,391606E+09	1,391589E+09	1,018648E+09	3,807911E+08
-2353	8,043782E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,041884E+06	3,808311E+08	1,018699E+09	1,391623E+09	1,391627E+09	1,018714E+09	3,808677E+08

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	8,044285E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047355E+06	3,808256E+08	1,018691E+09	1,391629E+09	1,391652E+09	1,018744E+09	3,808670E+08
-2351	8,048062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045426E+06	3,809022E+08	1,018766E+09	1,391669E+09	1,391632E+09	1,018678E+09	3,808153E+08
-2350	8,042592E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042032E+06	3,808034E+08	1,018694E+09	1,391648E+09	1,391664E+09	1,018746E+09	3,808942E+08
-2349	8,047687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047895E+06	3,808456E+08	1,018688E+09	1,391610E+09	1,391617E+09	1,018696E+09	3,808255E+08
-2348	8,046765E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043612E+06	3,808590E+08	1,018698E+09	1,391592E+09	1,391561E+09	1,018631E+09	3,808117E+08
-2347	8,042670E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044967E+06	3,807696E+08	1,018593E+09	1,391519E+09	1,391550E+09	1,018672E+09	3,808634E+08
-2346	8,049724E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049285E+06	3,808522E+08	1,018622E+09	1,391485E+09	1,391469E+09	1,018568E+09	3,807617E+08
-2345	8,044023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044463E+06	3,808038E+08	1,018585E+09	1,391439E+09	1,391416E+09	1,018544E+09	3,808001E+08
-2344	8,045558E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046165E+06	3,807426E+08	1,018502E+09	1,391383E+09	1,391401E+09	1,018558E+09	3,808126E+08
-2343	8,050345E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048357E+06	3,808206E+08	1,018546E+09	1,391379E+09	1,391348E+09	1,018464E+09	3,807296E+08
-2342	8,044638E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043666E+06	3,807334E+08	1,018473E+09	1,391340E+09	1,391355E+09	1,018519E+09	3,808078E+08
-2341	8,049076E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049040E+06	3,807566E+08	1,018463E+09	1,391312E+09	1,391335E+09	1,018505E+09	3,807666E+08
-2340	8,048025E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047802E+06	3,808141E+08	1,018531E+09	1,391348E+09	1,391318E+09	1,018453E+09	3,807381E+08
-2339	8,044446E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044203E+06	3,807281E+08	1,018477E+09	1,391353E+09	1,391381E+09	1,018553E+09	3,808252E+08
-2338	8,049248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050773E+06	3,808106E+08	1,018548E+09	1,391402E+09	1,391395E+09	1,018523E+09	3,807545E+08
-2337	8,046201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043981E+06	3,808088E+08	1,018586E+09	1,391450E+09	1,391429E+09	1,018545E+09	3,807919E+08
-2336	8,044600E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045144E+06	3,807491E+08	1,018545E+09	1,391462E+09	1,391499E+09	1,018637E+09	3,808479E+08
-2335	8,049476E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049257E+06	3,808606E+08	1,018642E+09	1,391513E+09	1,391503E+09	1,018592E+09	3,807717E+08
-2334	8,044514E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042141E+06	3,808076E+08	1,018638E+09	1,391537E+09	1,391538E+09	1,018652E+09	3,808492E+08
-2333	8,045189E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047781E+06	3,807995E+08	1,018621E+09	1,391532E+09	1,391549E+09	1,018664E+09	3,808398E+08
-2332	8,048985E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045485E+06	3,808686E+08	1,018687E+09	1,391568E+09	1,391532E+09	1,018596E+09	3,807807E+08
-2331	8,042798E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042920E+06	3,807722E+08	1,018603E+09	1,391528E+09	1,391551E+09	1,018665E+09	3,808630E+08
-2330	8,048170E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049204E+06	3,808188E+08	1,018603E+09	1,391496E+09	1,391504E+09	1,018613E+09	3,807930E+08
-2329	8,047043E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044957E+06	3,808358E+08	1,018615E+09	1,391469E+09	1,391441E+09	1,018547E+09	3,807782E+08
-2328	8,042824E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045366E+06	3,807390E+08	1,018507E+09	1,391391E+09	1,391417E+09	1,018579E+09	3,808355E+08
-2327	8,050859E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049343E+06	3,808178E+08	1,018538E+09	1,391366E+09	1,391349E+09	1,018481E+09	3,807335E+08
-2326	8,045321E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044502E+06	3,807668E+08	1,018498E+09	1,391330E+09	1,391308E+09	1,018464E+09	3,807738E+08
-2325	8,046919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046908E+06	3,807104E+08	1,018411E+09	1,391263E+09	1,391286E+09	1,018471E+09	3,807790E+08
-2324	8,050971E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049477E+06	3,807935E+08	1,018462E+09	1,391263E+09	1,391238E+09	1,018383E+09	3,806942E+08
-2323	8,044556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045111E+06	3,807145E+08	1,018398E+09	1,391227E+09	1,391243E+09	1,018443E+09	3,807791E+08
-2322	8,049096E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050181E+06	3,807376E+08	1,018406E+09	1,391228E+09	1,391238E+09	1,018430E+09	3,807403E+08
-2321	8,048462E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048119E+06	3,807903E+08	1,018470E+09	1,391267E+09	1,391233E+09	1,018388E+09	3,807136E+08
-2320	8,044892E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043763E+06	3,806949E+08	1,018404E+09	1,391262E+09	1,391292E+09	1,018489E+09	3,808063E+08
-2319	8,050373E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050566E+06	3,807785E+08	1,018471E+09	1,391306E+09	1,391313E+09	1,018470E+09	3,807360E+08
-2318	8,047321E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044192E+06	3,807825E+08	1,018514E+09	1,391356E+09	1,391344E+09	1,018491E+09	3,807742E+08
-2317	8,045360E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046107E+06	3,807291E+08	1,018476E+09	1,391358E+09	1,391394E+09	1,018563E+09	3,808222E+08

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	8,050047E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049694E+06	3,808382E+08	1,018580E+09	1,391420E+09	1,391402E+09	1,018516E+09	3,807426E+08
-2315	8,044696E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042822E+06	3,807837E+08	1,018572E+09	1,391444E+09	1,391438E+09	1,018577E+09	3,808225E+08
-2314	8,045759E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048472E+06	3,807735E+08	1,018557E+09	1,391450E+09	1,391459E+09	1,018591E+09	3,808114E+08
-2313	8,049568E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046335E+06	3,808425E+08	1,018611E+09	1,391468E+09	1,391438E+09	1,018528E+09	3,807498E+08
-2312	8,042803E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043753E+06	3,807453E+08	1,018517E+09	1,391407E+09	1,391435E+09	1,018587E+09	3,808362E+08
-2311	8,048890E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049879E+06	3,807928E+08	1,018520E+09	1,391371E+09	1,391385E+09	1,018534E+09	3,807659E+08
-2310	8,047779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045501E+06	3,808066E+08	1,018535E+09	1,391355E+09	1,391320E+09	1,018460E+09	3,807505E+08
-2309	8,043915E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045747E+06	3,807058E+08	1,018421E+09	1,391273E+09	1,391290E+09	1,018480E+09	3,808001E+08
-2308	8,051818E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049542E+06	3,807797E+08	1,018449E+09	1,391251E+09	1,391232E+09	1,018389E+09	3,806966E+08
-2307	8,045736E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045414E+06	3,807334E+08	1,018405E+09	1,391209E+09	1,391192E+09	1,018381E+09	3,807417E+08
-2306	8,047458E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048161E+06	3,806854E+08	1,018333E+09	1,391155E+09	1,391178E+09	1,018394E+09	3,807485E+08
-2305	8,051160E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050692E+06	3,807710E+08	1,018386E+09	1,391153E+09	1,391131E+09	1,018310E+09	3,806662E+08
-2304	8,044791E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045249E+06	3,806859E+08	1,018322E+09	1,391118E+09	1,391130E+09	1,018366E+09	3,807584E+08
-2303	8,050179E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049956E+06	3,807044E+08	1,018329E+09	1,391128E+09	1,391143E+09	1,018363E+09	3,807207E+08
-2302	8,049830E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047897E+06	3,807566E+08	1,018394E+09	1,391176E+09	1,391146E+09	1,018325E+09	3,806946E+08
-2301	8,046120E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044285E+06	3,806682E+08	1,018329E+09	1,391162E+09	1,391195E+09	1,018416E+09	3,807787E+08
-2300	8,050828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051386E+06	3,807583E+08	1,018407E+09	1,391212E+09	1,391218E+09	1,018400E+09	3,807073E+08
-2299	8,047205E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045494E+06	3,807704E+08	1,018459E+09	1,391268E+09	1,391248E+09	1,018422E+09	3,807477E+08
-2298	8,045281E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047300E+06	3,807167E+08	1,018435E+09	1,391292E+09	1,391312E+09	1,018495E+09	3,807950E+08
-2297	8,050122E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050174E+06	3,808169E+08	1,018524E+09	1,391347E+09	1,391325E+09	1,018454E+09	3,807164E+08
-2296	8,044868E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,042876E+06	3,807515E+08	1,018495E+09	1,391349E+09	1,391347E+09	1,018511E+09	3,808006E+08
-2295	8,046665E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048569E+06	3,807385E+08	1,018466E+09	1,391337E+09	1,391363E+09	1,018528E+09	3,807895E+08
-2294	8,050546E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046844E+06	3,808109E+08	1,018521E+09	1,391348E+09	1,391326E+09	1,018456E+09	3,807276E+08
-2293	8,043687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044645E+06	3,807177E+08	1,018429E+09	1,391274E+09	1,391297E+09	1,018489E+09	3,808034E+08
-2292	8,049679E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050133E+06	3,807614E+08	1,018439E+09	1,391251E+09	1,391251E+09	1,018434E+09	3,807314E+08
-2291	8,048286E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046208E+06	3,807752E+08	1,018452E+09	1,391240E+09	1,391197E+09	1,018365E+09	3,807171E+08
-2290	8,044878E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046465E+06	3,806751E+08	1,018344E+09	1,391172E+09	1,391183E+09	1,018392E+09	3,807649E+08
-2289	8,052331E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050595E+06	3,807504E+08	1,018364E+09	1,391142E+09	1,391130E+09	1,018314E+09	3,806650E+08
-2288	8,045977E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046313E+06	3,807043E+08	1,018317E+09	1,391088E+09	1,391077E+09	1,018303E+09	3,807158E+08
-2287	8,048231E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048664E+06	3,806563E+08	1,018248E+09	1,391038E+09	1,391069E+09	1,018322E+09	3,807256E+08
-2286	8,052037E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050975E+06	3,807395E+08	1,018308E+09	1,391049E+09	1,391025E+09	1,018236E+09	3,806450E+08
-2285	8,045972E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045259E+06	3,806525E+08	1,018239E+09	1,391007E+09	1,391017E+09	1,018279E+09	3,807289E+08
-2284	8,051031E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050023E+06	3,806705E+08	1,018249E+09	1,391024E+09	1,391039E+09	1,018284E+09	3,806908E+08
-2283	8,050152E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048902E+06	3,807325E+08	1,018318E+09	1,391074E+09	1,391048E+09	1,018255E+09	3,806668E+08
-2282	8,046331E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045772E+06	3,806562E+08	1,018277E+09	1,391080E+09	1,391107E+09	1,018349E+09	3,807495E+08
-2281	8,050474E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052685E+06	3,807473E+08	1,018360E+09	1,391135E+09	1,391135E+09	1,018339E+09	3,806831E+08



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	8,047169E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045756E+06	3,807498E+08	1,018406E+09	1,391190E+09	1,391162E+09	1,018358E+09	3,807287E+08
-2279	8,045994E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047121E+06	3,806878E+08	1,018369E+09	1,391211E+09	1,391237E+09	1,018440E+09	3,807781E+08
-2278	8,051338E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049953E+06	3,807828E+08	1,018448E+09	1,391258E+09	1,391244E+09	1,018397E+09	3,806986E+08
-2277	8,045960E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,043473E+06	3,807212E+08	1,018409E+09	1,391234E+09	1,391238E+09	1,018433E+09	3,807729E+08
-2276	8,047358E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049242E+06	3,807116E+08	1,018385E+09	1,391220E+09	1,391243E+09	1,018444E+09	3,807596E+08
-2275	8,050750E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048037E+06	3,807880E+08	1,018444E+09	1,391231E+09	1,391201E+09	1,018366E+09	3,806968E+08
-2274	8,044196E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045658E+06	3,806959E+08	1,018367E+09	1,391178E+09	1,391183E+09	1,018396E+09	3,807666E+08
-2273	8,049942E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050622E+06	3,807315E+08	1,018363E+09	1,391150E+09	1,391145E+09	1,018348E+09	3,806972E+08
-2272	8,048631E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046507E+06	3,807371E+08	1,018359E+09	1,391124E+09	1,391086E+09	1,018282E+09	3,806875E+08
-2271	8,045876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046915E+06	3,806383E+08	1,018242E+09	1,391047E+09	1,391077E+09	1,018320E+09	3,807390E+08
-2270	8,053211E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051367E+06	3,807166E+08	1,018268E+09	1,391014E+09	1,391012E+09	1,018238E+09	3,806423E+08
-2269	8,046986E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047122E+06	3,806731E+08	1,018223E+09	1,390953E+09	1,390940E+09	1,018208E+09	3,806862E+08
-2268	8,049238E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048805E+06	3,806225E+08	1,018163E+09	1,390918E+09	1,390940E+09	1,018227E+09	3,806950E+08
-2267	8,052571E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051649E+06	3,807085E+08	1,018226E+09	1,390938E+09	1,390910E+09	1,018149E+09	3,806149E+08
-2266	8,046788E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046164E+06	3,806315E+08	1,018176E+09	1,390918E+09	1,390921E+09	1,018200E+09	3,806935E+08
-2265	8,050844E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051398E+06	3,806547E+08	1,018189E+09	1,390939E+09	1,390954E+09	1,018219E+09	3,806618E+08
-2264	8,049923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049922E+06	3,807174E+08	1,018261E+09	1,390989E+09	1,390961E+09	1,018193E+09	3,806452E+08
-2263	8,046688E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046370E+06	3,806385E+08	1,018222E+09	1,391005E+09	1,391034E+09	1,018296E+09	3,807322E+08
-2262	8,051164E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052655E+06	3,807214E+08	1,018303E+09	1,391064E+09	1,391062E+09	1,018286E+09	3,806702E+08
-2261	8,048442E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045364E+06	3,807154E+08	1,018331E+09	1,391099E+09	1,391073E+09	1,018290E+09	3,807067E+08
-2260	8,047021E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046759E+06	3,806500E+08	1,018284E+09	1,391109E+09	1,391139E+09	1,018369E+09	3,807540E+08
-2259	8,051960E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050613E+06	3,807518E+08	1,018358E+09	1,391142E+09	1,391138E+09	1,018324E+09	3,806727E+08
-2258	8,046477E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,044901E+06	3,807035E+08	1,018339E+09	1,391125E+09	1,391125E+09	1,018348E+09	3,807385E+08
-2257	8,047269E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050444E+06	3,806933E+08	1,018318E+09	1,391113E+09	1,391128E+09	1,018358E+09	3,807282E+08
-2256	8,050988E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048616E+06	3,807605E+08	1,018369E+09	1,391125E+09	1,391085E+09	1,018277E+09	3,806681E+08
-2255	8,045134E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045869E+06	3,806612E+08	1,018282E+09	1,391074E+09	1,391085E+09	1,018318E+09	3,807391E+08
-2254	8,051131E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050826E+06	3,806942E+08	1,018272E+09	1,391040E+09	1,391044E+09	1,018274E+09	3,806724E+08
-2253	8,049681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047349E+06	3,807022E+08	1,018259E+09	1,390992E+09	1,390962E+09	1,018194E+09	3,806555E+08
-2252	8,046716E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047679E+06	3,806084E+08	1,018151E+09	1,390915E+09	1,390944E+09	1,018229E+09	3,807074E+08
-2251	8,053462E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052641E+06	3,806893E+08	1,018182E+09	1,390890E+09	1,390883E+09	1,018145E+09	3,806111E+08
-2250	8,047620E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048239E+06	3,806511E+08	1,018155E+09	1,390849E+09	1,390824E+09	1,018113E+09	3,806484E+08
-2249	8,049405E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049488E+06	3,805959E+08	1,018090E+09	1,390819E+09	1,390837E+09	1,018144E+09	3,806619E+08
-2248	8,052729E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052144E+06	3,806775E+08	1,018146E+09	1,390836E+09	1,390811E+09	1,018076E+09	3,805880E+08
-2247	8,047482E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046701E+06	3,806056E+08	1,018099E+09	1,390822E+09	1,390839E+09	1,018142E+09	3,806714E+08
-2246	8,051376E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052026E+06	3,806327E+08	1,018124E+09	1,390849E+09	1,390869E+09	1,018163E+09	3,806461E+08
-2245	8,050843E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050092E+06	3,806925E+08	1,018195E+09	1,390894E+09	1,390865E+09	1,018125E+09	3,806254E+08

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	8,047782E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046084E+06	3,806091E+08	1,018157E+09	1,390919E+09	1,390941E+09	1,018227E+09	3,807117E+08
-2243	8,051903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052809E+06	3,806890E+08	1,018228E+09	1,390973E+09	1,390974E+09	1,018220E+09	3,806485E+08
-2242	8,049465E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046188E+06	3,806935E+08	1,018265E+09	1,391009E+09	1,390985E+09	1,018219E+09	3,806749E+08
-2241	8,046852E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048172E+06	3,806333E+08	1,018216E+09	1,391010E+09	1,391043E+09	1,018299E+09	3,807237E+08
-2240	8,051739E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051733E+06	3,807334E+08	1,018290E+09	1,391037E+09	1,391030E+09	1,018248E+09	3,806459E+08
-2239	8,046754E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045840E+06	3,806837E+08	1,018272E+09	1,391030E+09	1,391029E+09	1,018274E+09	3,807116E+08
-2238	8,047907E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050619E+06	3,806644E+08	1,018248E+09	1,391020E+09	1,391030E+09	1,018281E+09	3,807043E+08
-2237	8,052137E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048558E+06	3,807215E+08	1,018278E+09	1,391010E+09	1,390973E+09	1,018190E+09	3,806385E+08
-2236	8,046351E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045934E+06	3,806205E+08	1,018183E+09	1,390950E+09	1,390964E+09	1,018232E+09	3,807081E+08
-2235	8,051800E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051814E+06	3,806594E+08	1,018170E+09	1,390905E+09	1,390918E+09	1,018187E+09	3,806425E+08
-2234	8,050369E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049090E+06	3,806808E+08	1,018177E+09	1,390864E+09	1,390831E+09	1,018098E+09	3,806174E+08
-2233	8,046808E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048900E+06	3,805865E+08	1,018073E+09	1,390795E+09	1,390816E+09	1,018135E+09	3,806730E+08
-2232	8,053712E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053135E+06	3,806570E+08	1,018098E+09	1,390775E+09	1,390762E+09	1,018054E+09	3,805815E+08
-2231	8,048613E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048499E+06	3,806170E+08	1,018068E+09	1,390745E+09	1,390727E+09	1,018036E+09	3,806203E+08
-2230	8,050476E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049721E+06	3,805638E+08	1,018010E+09	1,390719E+09	1,390744E+09	1,018076E+09	3,806393E+08
-2229	8,053684E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052671E+06	3,806482E+08	1,018063E+09	1,390724E+09	1,390707E+09	1,018004E+09	3,805642E+08
-2228	8,048487E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047015E+06	3,805814E+08	1,018031E+09	1,390723E+09	1,390736E+09	1,018072E+09	3,806481E+08
-2227	8,051722E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052772E+06	3,806098E+08	1,018061E+09	1,390761E+09	1,390777E+09	1,018095E+09	3,806248E+08
-2226	8,051659E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050701E+06	3,806733E+08	1,018141E+09	1,390816E+09	1,390780E+09	1,018054E+09	3,805945E+08
-2225	8,047827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046674E+06	3,805863E+08	1,018093E+09	1,390835E+09	1,390859E+09	1,018162E+09	3,806834E+08
-2224	8,051888E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053351E+06	3,806607E+08	1,018150E+09	1,390875E+09	1,390885E+09	1,018156E+09	3,806236E+08
-2223	8,049804E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047106E+06	3,806709E+08	1,018188E+09	1,390909E+09	1,390898E+09	1,018159E+09	3,806517E+08
-2222	8,047228E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049025E+06	3,806139E+08	1,018151E+09	1,390910E+09	1,390944E+09	1,018232E+09	3,807038E+08
-2221	8,052631E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051906E+06	3,807058E+08	1,018217E+09	1,390928E+09	1,390915E+09	1,018165E+09	3,806223E+08
-2220	8,047996E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,045671E+06	3,806515E+08	1,018198E+09	1,390927E+09	1,390915E+09	1,018189E+09	3,806836E+08
-2219	8,048819E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050914E+06	3,806292E+08	1,018162E+09	1,390913E+09	1,390925E+09	1,018199E+09	3,806747E+08
-2218	8,053102E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049780E+06	3,806966E+08	1,018199E+09	1,390899E+09	1,390864E+09	1,018104E+09	3,805993E+08
-2217	8,046286E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047581E+06	3,805999E+08	1,018101E+09	1,390831E+09	1,390847E+09	1,018147E+09	3,806727E+08
-2216	8,051795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052980E+06	3,806332E+08	1,018085E+09	1,390782E+09	1,390793E+09	1,018099E+09	3,806118E+08
-2215	8,050871E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050101E+06	3,806521E+08	1,018093E+09	1,390752E+09	1,390720E+09	1,018015E+09	3,805888E+08
-2214	8,047839E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048921E+06	3,805521E+08	1,017989E+09	1,390685E+09	1,390705E+09	1,018052E+09	3,806468E+08
-2213	8,054912E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052808E+06	3,806129E+08	1,017998E+09	1,390649E+09	1,390643E+09	1,017967E+09	3,805532E+08
-2212	8,049999E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048454E+06	3,805790E+08	1,017973E+09	1,390622E+09	1,390609E+09	1,017955E+09	3,805904E+08
-2211	8,051015E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050608E+06	3,805348E+08	1,017922E+09	1,390601E+09	1,390633E+09	1,017999E+09	3,806118E+08
-2210	8,054230E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054194E+06	3,806342E+08	1,018002E+09	1,390623E+09	1,390601E+09	1,017925E+09	3,805321E+08
-2209	8,048538E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048149E+06	3,805667E+08	1,017976E+09	1,390637E+09	1,390640E+09	1,017999E+09	3,806194E+08

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	8,051694E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053185E+06	3,805839E+08	1,017997E+09	1,390676E+09	1,390689E+09	1,018028E+09	3,806014E+08
-2207	8,052312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051048E+06	3,806459E+08	1,018071E+09	1,390737E+09	1,390711E+09	1,017999E+09	3,805726E+08
-2206	8,048435E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047133E+06	3,805627E+08	1,018025E+09	1,390746E+09	1,390779E+09	1,018107E+09	3,806639E+08
-2205	8,052457E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053682E+06	3,806345E+08	1,018074E+09	1,390767E+09	1,390783E+09	1,018090E+09	3,806031E+08
-2204	8,050712E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047444E+06	3,806492E+08	1,018123E+09	1,390808E+09	1,390788E+09	1,018085E+09	3,806273E+08
-2203	8,047696E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049663E+06	3,805898E+08	1,018086E+09	1,390818E+09	1,390842E+09	1,018153E+09	3,806779E+08
-2202	8,053587E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052518E+06	3,806836E+08	1,018155E+09	1,390838E+09	1,390815E+09	1,018082E+09	3,805879E+08
-2201	8,048290E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,046417E+06	3,806236E+08	1,018122E+09	1,390828E+09	1,390816E+09	1,018109E+09	3,806486E+08
-2200	8,049018E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051527E+06	3,805954E+08	1,018069E+09	1,390795E+09	1,390816E+09	1,018122E+09	3,806442E+08
-2199	8,053504E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050956E+06	3,806666E+08	1,018104E+09	1,390778E+09	1,390757E+09	1,018030E+09	3,805711E+08
-2198	8,046917E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048467E+06	3,805732E+08	1,018017E+09	1,390707E+09	1,390724E+09	1,018064E+09	3,806481E+08
-2197	8,052953E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052923E+06	3,805938E+08	1,017988E+09	1,390648E+09	1,390657E+09	1,018005E+09	3,805853E+08
-2196	8,052391E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049948E+06	3,806109E+08	1,017997E+09	1,390623E+09	1,390585E+09	1,017919E+09	3,805581E+08
-2195	8,049041E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049209E+06	3,805138E+08	1,017894E+09	1,390562E+09	1,390585E+09	1,017961E+09	3,806136E+08
-2194	8,055753E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054186E+06	3,805898E+08	1,017918E+09	1,390531E+09	1,390525E+09	1,017877E+09	3,805137E+08
-2193	8,049863E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050124E+06	3,805642E+08	1,017906E+09	1,390517E+09	1,390500E+09	1,017873E+09	3,805546E+08
-2192	8,050688E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051866E+06	3,805175E+08	1,017860E+09	1,390507E+09	1,390533E+09	1,017925E+09	3,805836E+08
-2191	8,054289E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055102E+06	3,806129E+08	1,017941E+09	1,390547E+09	1,390523E+09	1,017865E+09	3,805103E+08
-2190	8,049312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048149E+06	3,805403E+08	1,017915E+09	1,390559E+09	1,390564E+09	1,017942E+09	3,806016E+08
-2189	8,052595E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052569E+06	3,805438E+08	1,017913E+09	1,390576E+09	1,390599E+09	1,017967E+09	3,805833E+08
-2188	8,053570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050820E+06	3,806122E+08	1,017988E+09	1,390629E+09	1,390610E+09	1,017936E+09	3,805513E+08
-2187	8,048941E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047881E+06	3,805389E+08	1,017950E+09	1,390640E+09	1,390676E+09	1,018038E+09	3,806404E+08
-2186	8,052996E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054864E+06	3,806221E+08	1,018018E+09	1,390670E+09	1,390675E+09	1,018010E+09	3,805726E+08
-2185	8,050859E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048406E+06	3,806337E+08	1,018071E+09	1,390724E+09	1,390689E+09	1,018005E+09	3,805958E+08
-2184	8,047891E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050137E+06	3,805625E+08	1,018019E+09	1,390730E+09	1,390749E+09	1,018077E+09	3,806483E+08
-2183	8,054126E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053117E+06	3,806532E+08	1,018077E+09	1,390749E+09	1,390734E+09	1,018018E+09	3,805618E+08
-2182	8,048952E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,047270E+06	3,805965E+08	1,018043E+09	1,390723E+09	1,390719E+09	1,018042E+09	3,806238E+08
-2181	8,049708E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051756E+06	3,805602E+08	1,017975E+09	1,390665E+09	1,390694E+09	1,018043E+09	3,806203E+08
-2180	8,054588E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051411E+06	3,806342E+08	1,018016E+09	1,390648E+09	1,390621E+09	1,017941E+09	3,805430E+08
-2179	8,047719E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049004E+06	3,805395E+08	1,017926E+09	1,390582E+09	1,390593E+09	1,017966E+09	3,806158E+08
-2178	8,054048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053587E+06	3,805631E+08	1,017901E+09	1,390524E+09	1,390527E+09	1,017902E+09	3,805449E+08
-2177	8,052701E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051032E+06	3,805807E+08	1,017908E+09	1,390502E+09	1,390462E+09	1,017823E+09	3,805167E+08
-2176	8,049140E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050167E+06	3,804835E+08	1,017803E+09	1,390440E+09	1,390467E+09	1,017874E+09	3,805777E+08
-2175	8,055707E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055618E+06	3,805661E+08	1,017839E+09	1,390426E+09	1,390424E+09	1,017806E+09	3,804880E+08
-2174	8,050468E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050875E+06	3,805429E+08	1,017842E+09	1,390421E+09	1,390400E+09	1,017805E+09	3,805342E+08
-2173	8,051665E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051392E+06	3,804814E+08	1,017783E+09	1,390406E+09	1,390431E+09	1,017855E+09	3,805662E+08

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	8,055797E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054610E+06	3,805753E+08	1,017862E+09	1,390447E+09	1,390425E+09	1,017798E+09	3,804904E+08
-2171	8,050460E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048227E+06	3,805075E+08	1,017834E+09	1,390461E+09	1,390471E+09	1,017874E+09	3,805781E+08
-2170	8,053296E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053670E+06	3,805246E+08	1,017842E+09	1,390473E+09	1,390498E+09	1,017895E+09	3,805531E+08
-2169	8,053497E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052257E+06	3,806002E+08	1,017931E+09	1,390536E+09	1,390510E+09	1,017862E+09	3,805204E+08
-2168	8,048653E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049038E+06	3,805244E+08	1,017898E+09	1,390557E+09	1,390582E+09	1,017965E+09	3,806115E+08
-2167	8,052927E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055637E+06	3,806023E+08	1,017965E+09	1,390602E+09	1,390600E+09	1,017946E+09	3,805498E+08
-2166	8,051580E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048569E+06	3,806082E+08	1,018010E+09	1,390647E+09	1,390611E+09	1,017943E+09	3,805737E+08
-2165	8,048704E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049714E+06	3,805219E+08	1,017929E+09	1,390623E+09	1,390652E+09	1,018011E+09	3,806268E+08
-2164	8,055235E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053151E+06	3,806158E+08	1,017981E+09	1,390623E+09	1,390617E+09	1,017946E+09	3,805380E+08
-2163	8,049628E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048242E+06	3,805665E+08	1,017950E+09	1,390593E+09	1,390592E+09	1,017957E+09	3,805969E+08
-2162	8,050618E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052891E+06	3,805369E+08	1,017892E+09	1,390534E+09	1,390554E+09	1,017943E+09	3,805848E+08
-2161	8,054966E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052481E+06	3,806069E+08	1,017935E+09	1,390528E+09	1,390488E+09	1,017837E+09	3,805046E+08
-2160	8,048182E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049674E+06	3,805065E+08	1,017838E+09	1,390464E+09	1,390470E+09	1,017867E+09	3,805764E+08
-2159	8,054397E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054491E+06	3,805308E+08	1,017814E+09	1,390417E+09	1,390422E+09	1,017819E+09	3,805123E+08
-2158	8,053203E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052115E+06	3,805556E+08	1,017829E+09	1,390393E+09	1,390356E+09	1,017747E+09	3,804883E+08
-2157	8,049825E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050401E+06	3,804512E+08	1,017717E+09	1,390323E+09	1,390352E+09	1,017798E+09	3,805543E+08
-2156	8,056666E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055963E+06	3,805358E+08	1,017763E+09	1,390316E+09	1,390310E+09	1,017731E+09	3,804670E+08
-2155	8,051547E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051044E+06	3,805105E+08	1,017764E+09	1,390323E+09	1,390300E+09	1,017730E+09	3,805108E+08
-2154	8,052786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051747E+06	3,804519E+08	1,017705E+09	1,390303E+09	1,390329E+09	1,017776E+09	3,805350E+08
-2153	8,056071E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055407E+06	3,805472E+08	1,017783E+09	1,390345E+09	1,390326E+09	1,017722E+09	3,804575E+08
-2152	8,050384E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049241E+06	3,804851E+08	1,017757E+09	1,390356E+09	1,390371E+09	1,017801E+09	3,805464E+08
-2151	8,052851E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055144E+06	3,805100E+08	1,017783E+09	1,390388E+09	1,390410E+09	1,017831E+09	3,805312E+08
-2150	8,053900E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053102E+06	3,805870E+08	1,017884E+09	1,390459E+09	1,390424E+09	1,017799E+09	3,805013E+08
-2149	8,049406E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048633E+06	3,804930E+08	1,017832E+09	1,390472E+09	1,390493E+09	1,017899E+09	3,805937E+08
-2148	8,054239E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055228E+06	3,805680E+08	1,017891E+09	1,390510E+09	1,390510E+09	1,017884E+09	3,805308E+08
-2147	8,052710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048826E+06	3,805751E+08	1,017927E+09	1,390547E+09	1,390518E+09	1,017874E+09	3,805486E+08
-2146	8,049411E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050790E+06	3,804988E+08	1,017848E+09	1,390506E+09	1,390538E+09	1,017929E+09	3,805945E+08
-2145	8,055318E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054555E+06	3,805950E+08	1,017906E+09	1,390508E+09	1,390496E+09	1,017856E+09	3,805032E+08
-2144	8,049601E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049520E+06	3,805424E+08	1,017872E+09	1,390479E+09	1,390468E+09	1,017862E+09	3,805612E+08
-2143	8,050905E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053665E+06	3,805076E+08	1,017814E+09	1,390433E+09	1,390445E+09	1,017855E+09	3,805555E+08
-2142	8,055901E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052869E+06	3,805724E+08	1,017850E+09	1,390418E+09	1,390378E+09	1,017753E+09	3,804748E+08
-2141	8,049246E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049337E+06	3,804606E+08	1,017733E+09	1,390334E+09	1,390349E+09	1,017782E+09	3,805470E+08
-2140	8,055460E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054751E+06	3,804929E+08	1,017713E+09	1,390280E+09	1,390295E+09	1,017737E+09	3,804854E+08
-2139	8,054006E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053008E+06	3,805251E+08	1,017739E+09	1,390269E+09	1,390234E+09	1,017661E+09	3,804608E+08
-2138	8,050897E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051348E+06	3,804272E+08	1,017639E+09	1,390204E+09	1,390226E+09	1,017706E+09	3,805221E+08
-2137	8,057123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056893E+06	3,805078E+08	1,017687E+09	1,390212E+09	1,390198E+09	1,017642E+09	3,804344E+08



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												
-2136	8,052057E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051755E+06	3,804808E+08	1,017683E+09	1,390220E+09	1,390200E+09	1,017650E+09	3,804776E+08
-2135	8,052883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052825E+06	3,804276E+08	1,017631E+09	1,390213E+09	1,390243E+09	1,017711E+09	3,805089E+08
-2134	8,056249E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056475E+06	3,805303E+08	1,017721E+09	1,390255E+09	1,390239E+09	1,017662E+09	3,804350E+08
-2133	8,050747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049417E+06	3,804624E+08	1,017694E+09	1,390264E+09	1,390278E+09	1,017737E+09	3,805264E+08
-2132	8,053452E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055335E+06	3,804875E+08	1,017726E+09	1,390302E+09	1,390318E+09	1,017767E+09	3,805141E+08
-2131	8,054985E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053028E+06	3,805596E+08	1,017821E+09	1,390382E+09	1,390344E+09	1,017735E+09	3,804816E+08
-2130	8,050572E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,048992E+06	3,804658E+08	1,017761E+09	1,390379E+09	1,390401E+09	1,017827E+09	3,805648E+08
-2129	8,054598E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055927E+06	3,805389E+08	1,017812E+09	1,390407E+09	1,390412E+09	1,017809E+09	3,804999E+08
-2128	8,052786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050016E+06	3,805498E+08	1,017843E+09	1,390432E+09	1,390410E+09	1,017797E+09	3,805161E+08
-2127	8,049202E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052130E+06	3,804782E+08	1,017774E+09	1,390401E+09	1,390429E+09	1,017851E+09	3,805688E+08
-2126	8,055943E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055268E+06	3,805706E+08	1,017835E+09	1,390403E+09	1,390384E+09	1,017773E+09	3,804775E+08
-2125	8,050596E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049258E+06	3,805025E+08	1,017781E+09	1,390362E+09	1,390349E+09	1,017772E+09	3,805335E+08
-2124	8,052332E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053537E+06	3,804677E+08	1,017718E+09	1,390307E+09	1,390323E+09	1,017768E+09	3,805269E+08
-2123	8,057058E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053535E+06	3,805362E+08	1,017752E+09	1,390292E+09	1,390260E+09	1,017666E+09	3,804432E+08
-2122	8,050142E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050660E+06	3,804356E+08	1,017643E+09	1,390202E+09	1,390217E+09	1,017687E+09	3,805087E+08
-2121	8,055527E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056257E+06	3,804705E+08	1,017635E+09	1,390162E+09	1,390169E+09	1,017641E+09	3,804489E+08
-2120	8,054062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054335E+06	3,805001E+08	1,017661E+09	1,390159E+09	1,390119E+09	1,017570E+09	3,804248E+08
-2119	8,051124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052173E+06	3,804005E+08	1,017566E+09	1,390113E+09	1,390131E+09	1,017629E+09	3,804947E+08
-2118	8,057743E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057380E+06	3,804766E+08	1,017609E+09	1,390115E+09	1,390105E+09	1,017573E+09	3,804090E+08
-2117	8,052827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051470E+06	3,804417E+08	1,017589E+09	1,390104E+09	1,390096E+09	1,017581E+09	3,804544E+08
-2116	8,053673E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053153E+06	3,803994E+08	1,017549E+09	1,390095E+09	1,390135E+09	1,017644E+09	3,804898E+08
-2115	8,057100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057004E+06	3,805070E+08	1,017652E+09	1,390155E+09	1,390138E+09	1,017593E+09	3,804158E+08
-2114	8,051908E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049911E+06	3,804431E+08	1,017635E+09	1,390172E+09	1,390176E+09	1,017660E+09	3,804998E+08
-2113	8,054005E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055862E+06	3,804635E+08	1,017667E+09	1,390223E+09	1,390230E+09	1,017691E+09	3,804859E+08
-2112	8,055539E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053527E+06	3,805325E+08	1,017750E+09	1,390296E+09	1,390262E+09	1,017667E+09	3,804509E+08
-2111	8,050618E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050118E+06	3,804447E+08	1,017693E+09	1,390295E+09	1,390321E+09	1,017766E+09	3,805401E+08
-2110	8,054852E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056937E+06	3,805190E+08	1,017745E+09	1,390311E+09	1,390319E+09	1,017745E+09	3,804766E+08
-2109	8,053227E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050340E+06	3,805208E+08	1,017765E+09	1,390321E+09	1,390301E+09	1,017722E+09	3,804924E+08
-2108	8,050030E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052399E+06	3,804490E+08	1,017695E+09	1,390285E+09	1,390314E+09	1,017771E+09	3,805452E+08
-2107	8,057226E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055320E+06	3,805343E+08	1,017748E+09	1,390291E+09	1,390272E+09	1,017687E+09	3,804495E+08
-2106	8,051843E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,049856E+06	3,804683E+08	1,017686E+09	1,390234E+09	1,390223E+09	1,017675E+09	3,804940E+08
-2105	8,052755E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054514E+06	3,804355E+08	1,017623E+09	1,390179E+09	1,390195E+09	1,017669E+09	3,804858E+08
-2104	8,057005E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055130E+06	3,805097E+08	1,017660E+09	1,390162E+09	1,390132E+09	1,017573E+09	3,804047E+08
-2103	8,050122E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052221E+06	3,804151E+08	1,017570E+09	1,390093E+09	1,390100E+09	1,017602E+09	3,804793E+08
-2102	8,056148E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056987E+06	3,804434E+08	1,017562E+09	1,390060E+09	1,390060E+09	1,017560E+09	3,804236E+08
-2101	8,055172E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054067E+06	3,804586E+08	1,017569E+09	1,390047E+09	1,390012E+09	1,017493E+09	3,804008E+08

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	8,052559E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052010E+06	3,803625E+08	1,017471E+09	1,389990E+09	1,390022E+09	1,017556E+09	3,804711E+08
-2099	8,058828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057702E+06	3,804423E+08	1,017519E+09	1,389999E+09	1,390000E+09	1,017501E+09	3,803849E+08
-2098	8,053787E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052433E+06	3,804212E+08	1,017513E+09	1,389989E+09	1,389980E+09	1,017499E+09	3,804227E+08
-2097	8,053778E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054283E+06	3,803826E+08	1,017491E+09	1,390003E+09	1,390030E+09	1,017560E+09	3,804590E+08
-2096	8,057215E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057899E+06	3,804882E+08	1,017596E+09	1,390074E+09	1,390050E+09	1,017521E+09	3,803875E+08
-2095	8,052241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050554E+06	3,804230E+08	1,017583E+09	1,390108E+09	1,390105E+09	1,017600E+09	3,804762E+08
-2094	8,054447E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056285E+06	3,804378E+08	1,017603E+09	1,390146E+09	1,390159E+09	1,017637E+09	3,804633E+08
-2093	8,056053E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053373E+06	3,804980E+08	1,017665E+09	1,390192E+09	1,390173E+09	1,017609E+09	3,804287E+08
-2092	8,051069E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050733E+06	3,804202E+08	1,017612E+09	1,390176E+09	1,390214E+09	1,017701E+09	3,805200E+08
-2091	8,055683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057345E+06	3,804917E+08	1,017668E+09	1,390200E+09	1,390209E+09	1,017670E+09	3,804554E+08
-2090	8,054401E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051000E+06	3,804945E+08	1,017686E+09	1,390204E+09	1,390175E+09	1,017629E+09	3,804603E+08
-2089	8,050814E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053016E+06	3,804189E+08	1,017615E+09	1,390176E+09	1,390194E+09	1,017672E+09	3,805079E+08
-2088	8,057788E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056220E+06	3,805031E+08	1,017658E+09	1,390174E+09	1,390157E+09	1,017597E+09	3,804107E+08
-2087	8,051914E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051326E+06	3,804456E+08	1,017610E+09	1,390127E+09	1,390113E+09	1,017593E+09	3,804595E+08
-2086	8,052998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055695E+06	3,804136E+08	1,017549E+09	1,390070E+09	1,390085E+09	1,017589E+09	3,804552E+08
-2085	8,057377E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055484E+06	3,804752E+08	1,017573E+09	1,390043E+09	1,390014E+09	1,017491E+09	3,803785E+08
-2084	8,051261E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052362E+06	3,803807E+08	1,017480E+09	1,389971E+09	1,389984E+09	1,017522E+09	3,804571E+08
-2083	8,057790E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056711E+06	3,803994E+08	1,017465E+09	1,389941E+09	1,389949E+09	1,017480E+09	3,803994E+08
-2082	8,056715E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054428E+06	3,804185E+08	1,017464E+09	1,389911E+09	1,389884E+09	1,017403E+09	3,803670E+08
-2081	8,053265E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052768E+06	3,803313E+08	1,017378E+09	1,389862E+09	1,389896E+09	1,017463E+09	3,804345E+08
-2080	8,058742E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059009E+06	3,804195E+08	1,017438E+09	1,389880E+09	1,389882E+09	1,017417E+09	3,803516E+08
-2079	8,053809E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053747E+06	3,804088E+08	1,017463E+09	1,389905E+09	1,389881E+09	1,017424E+09	3,803958E+08
-2078	8,054122E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055038E+06	3,803653E+08	1,017444E+09	1,389933E+09	1,389949E+09	1,017495E+09	3,804354E+08
-2077	8,057843E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057666E+06	3,804568E+08	1,017528E+09	1,389993E+09	1,389974E+09	1,017464E+09	3,803679E+08
-2076	8,053233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,050744E+06	3,803960E+08	1,017511E+09	1,390015E+09	1,390027E+09	1,017549E+09	3,804575E+08
-2075	8,055198E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056585E+06	3,804095E+08	1,017528E+09	1,390049E+09	1,390074E+09	1,017581E+09	3,804442E+08
-2074	8,056803E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054185E+06	3,804763E+08	1,017592E+09	1,390081E+09	1,390062E+09	1,017534E+09	3,804008E+08
-2073	8,051250E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051726E+06	3,804007E+08	1,017549E+09	1,390076E+09	1,390099E+09	1,017611E+09	3,804877E+08
-2072	8,055879E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058025E+06	3,804665E+08	1,017596E+09	1,390100E+09	1,390101E+09	1,017586E+09	3,804237E+08
-2071	8,054833E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051852E+06	3,804704E+08	1,017621E+09	1,390114E+09	1,390076E+09	1,017549E+09	3,804287E+08
-2070	8,051365E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053628E+06	3,803886E+08	1,017537E+09	1,390073E+09	1,390093E+09	1,017594E+09	3,804755E+08
-2069	8,058240E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056384E+06	3,804651E+08	1,017561E+09	1,390048E+09	1,390042E+09	1,017520E+09	3,803833E+08
-2068	8,052620E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052049E+06	3,804154E+08	1,017516E+09	1,389993E+09	1,389990E+09	1,017513E+09	3,804347E+08
-2067	8,054271E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055783E+06	3,803771E+08	1,017459E+09	1,389946E+09	1,389962E+09	1,017505E+09	3,804317E+08
-2066	8,058871E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055968E+06	3,804374E+08	1,017476E+09	1,389911E+09	1,389879E+09	1,017393E+09	3,803465E+08
-2065	8,052465E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052832E+06	3,803440E+08	1,017384E+09	1,389845E+09	1,389852E+09	1,017419E+09	3,804196E+08

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												
-2064	8,058397E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057622E+06	3,803648E+08	1,017365E+09	1,389811E+09	1,389826E+09	1,017390E+09	3,803621E+08
-2063	8,056778E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056094E+06	3,803992E+08	1,017390E+09	1,389799E+09	1,389769E+09	1,017320E+09	3,803324E+08
-2062	8,053256E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054114E+06	3,803166E+08	1,017318E+09	1,389766E+09	1,389792E+09	1,017385E+09	3,804026E+08
-2061	8,058609E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059479E+06	3,803953E+08	1,017375E+09	1,389789E+09	1,389786E+09	1,017347E+09	3,803288E+08
-2060	8,054582E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053929E+06	3,803856E+08	1,017401E+09	1,389822E+09	1,389800E+09	1,017364E+09	3,803770E+08
-2059	8,055292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054730E+06	3,803320E+08	1,017375E+09	1,389853E+09	1,389875E+09	1,017441E+09	3,804178E+08
-2058	8,058968E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057833E+06	3,804235E+08	1,017444E+09	1,389889E+09	1,389878E+09	1,017399E+09	3,803432E+08
-2057	8,053763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,051442E+06	3,803706E+08	1,017433E+09	1,389907E+09	1,389921E+09	1,017473E+09	3,804291E+08
-2056	8,055120E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057520E+06	3,803866E+08	1,017453E+09	1,389939E+09	1,389966E+09	1,017508E+09	3,804174E+08
-2055	8,057029E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055187E+06	3,804600E+08	1,017538E+09	1,389993E+09	1,389959E+09	1,017458E+09	3,803756E+08
-2054	8,051808E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052345E+06	3,803784E+08	1,017491E+09	1,389993E+09	1,390005E+09	1,017534E+09	3,804595E+08
-2053	8,056570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057700E+06	3,804293E+08	1,017514E+09	1,389999E+09	1,390002E+09	1,017512E+09	3,803986E+08
-2052	8,055866E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052255E+06	3,804392E+08	1,017532E+09	1,389999E+09	1,389973E+09	1,017478E+09	3,804031E+08
-2051	8,052451E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054035E+06	3,803558E+08	1,017449E+09	1,389957E+09	1,389983E+09	1,017520E+09	3,804494E+08
-2050	8,059078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057241E+06	3,804343E+08	1,017470E+09	1,389915E+09	1,389908E+09	1,017429E+09	3,803521E+08
-2049	8,053286E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053051E+06	3,803861E+08	1,017432E+09	1,389871E+09	1,389856E+09	1,017410E+09	3,803990E+08
-2048	8,054883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056367E+06	3,803415E+08	1,017364E+09	1,389822E+09	1,389837E+09	1,017411E+09	3,803966E+08
-2047	8,059418E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057088E+06	3,804068E+08	1,017391E+09	1,389796E+09	1,389759E+09	1,017302E+09	3,803108E+08
-2046	8,052932E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053834E+06	3,803144E+08	1,017296E+09	1,389726E+09	1,389734E+09	1,017330E+09	3,803817E+08
-2045	8,058371E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058226E+06	3,803322E+08	1,017271E+09	1,389682E+09	1,389703E+09	1,017307E+09	3,803327E+08
-2044	8,057125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057070E+06	3,803774E+08	1,017312E+09	1,389682E+09	1,389655E+09	1,017244E+09	3,803090E+08
-2043	8,054359E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054189E+06	3,802890E+08	1,017253E+09	1,389675E+09	1,389694E+09	1,017314E+09	3,803821E+08
-2042	8,059755E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059665E+06	3,803639E+08	1,017301E+09	1,389693E+09	1,389686E+09	1,017273E+09	3,803065E+08
-2041	8,055849E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054085E+06	3,803555E+08	1,017329E+09	1,389733E+09	1,389708E+09	1,017289E+09	3,803489E+08
-2040	8,055663E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055315E+06	3,803037E+08	1,017297E+09	1,389756E+09	1,389788E+09	1,017378E+09	3,803912E+08
-2039	8,058986E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059130E+06	3,804085E+08	1,017388E+09	1,389802E+09	1,389787E+09	1,017335E+09	3,803172E+08
-2038	8,053671E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052584E+06	3,803569E+08	1,017381E+09	1,389824E+09	1,389828E+09	1,017403E+09	3,804019E+08
-2037	8,055030E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057718E+06	3,803606E+08	1,017387E+09	1,389848E+09	1,389870E+09	1,017440E+09	3,803974E+08
-2036	8,057930E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055374E+06	3,804332E+08	1,017466E+09	1,389898E+09	1,389868E+09	1,017391E+09	3,803555E+08
-2035	8,053180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052118E+06	3,803418E+08	1,017410E+09	1,389897E+09	1,389914E+09	1,017466E+09	3,804352E+08
-2034	8,057597E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057983E+06	3,803923E+08	1,017417E+09	1,389875E+09	1,389885E+09	1,017429E+09	3,803688E+08
-2033	8,056476E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053225E+06	3,804101E+08	1,017443E+09	1,389873E+09	1,389844E+09	1,017383E+09	3,803674E+08
-2032	8,052557E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055115E+06	3,803286E+08	1,017361E+09	1,389829E+09	1,389854E+09	1,017429E+09	3,804165E+08
-2031	8,059414E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058577E+06	3,804117E+08	1,017399E+09	1,389805E+09	1,389783E+09	1,017335E+09	3,803198E+08
-2030	8,053885E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054140E+06	3,803580E+08	1,017352E+09	1,389763E+09	1,389739E+09	1,017316E+09	3,803635E+08
-2029	8,055545E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056538E+06	3,803015E+08	1,017264E+09	1,389696E+09	1,389718E+09	1,017324E+09	3,803661E+08

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	8,060144E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057986E+06	3,803745E+08	1,017292E+09	1,389666E+09	1,389643E+09	1,017220E+09	3,802821E+08
-2027	8,053966E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054251E+06	3,802836E+08	1,017211E+09	1,389607E+09	1,389619E+09	1,017249E+09	3,803530E+08
-2026	8,059013E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058855E+06	3,803027E+08	1,017189E+09	1,389562E+09	1,389576E+09	1,017217E+09	3,803045E+08
-2025	8,057974E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057604E+06	3,803506E+08	1,017243E+09	1,389583E+09	1,389543E+09	1,017154E+09	3,802791E+08
-2024	8,055141E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054434E+06	3,802579E+08	1,017177E+09	1,389581E+09	1,389602E+09	1,017242E+09	3,803552E+08
-2023	8,060320E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060479E+06	3,803381E+08	1,017235E+09	1,389606E+09	1,389599E+09	1,017208E+09	3,802811E+08
-2022	8,056350E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054895E+06	3,803310E+08	1,017257E+09	1,389642E+09	1,389623E+09	1,017225E+09	3,803204E+08
-2021	8,055452E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055735E+06	3,802757E+08	1,017216E+09	1,389648E+09	1,389690E+09	1,017314E+09	3,803697E+08
-2020	8,059276E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059770E+06	3,803871E+08	1,017316E+09	1,389699E+09	1,389691E+09	1,017271E+09	3,802996E+08
-2019	8,054807E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052575E+06	3,803310E+08	1,017318E+09	1,389737E+09	1,389736E+09	1,017334E+09	3,803817E+08
-2018	8,056060E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057802E+06	3,803287E+08	1,017311E+09	1,389747E+09	1,389765E+09	1,017360E+09	3,803740E+08
-2017	8,059212E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055813E+06	3,804043E+08	1,017390E+09	1,389798E+09	1,389763E+09	1,017308E+09	3,803243E+08
-2016	8,053587E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053077E+06	3,803147E+08	1,017328E+09	1,389787E+09	1,389810E+09	1,017390E+09	3,804024E+08
-2015	8,057590E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059581E+06	3,803769E+08	1,017354E+09	1,389772E+09	1,389774E+09	1,017348E+09	3,803366E+08
-2014	8,056397E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054769E+06	3,803922E+08	1,017378E+09	1,389775E+09	1,389735E+09	1,017296E+09	3,803319E+08
-2013	8,052519E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055506E+06	3,802971E+08	1,017278E+09	1,389718E+09	1,389740E+09	1,017344E+09	3,803891E+08
-2012	8,060270E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058968E+06	3,803760E+08	1,017305E+09	1,389688E+09	1,389674E+09	1,017255E+09	3,802949E+08
-2011	8,055450E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054142E+06	3,803154E+08	1,017252E+09	1,389640E+09	1,389624E+09	1,017233E+09	3,803345E+08
-2010	8,056724E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056825E+06	3,802595E+08	1,017151E+09	1,389548E+09	1,389579E+09	1,017229E+09	3,803349E+08
-2009	8,061023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058873E+06	3,803422E+08	1,017195E+09	1,389526E+09	1,389500E+09	1,017119E+09	3,802469E+08
-2008	8,054487E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054989E+06	3,802550E+08	1,017126E+09	1,389485E+09	1,389493E+09	1,017158E+09	3,803203E+08
-2007	8,059479E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059965E+06	3,802820E+08	1,017129E+09	1,389468E+09	1,389467E+09	1,017130E+09	3,802745E+08
-2006	8,058611E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058403E+06	3,803252E+08	1,017176E+09	1,389499E+09	1,389453E+09	1,017077E+09	3,802474E+08
-2005	8,055591E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054670E+06	3,802258E+08	1,017095E+09	1,389482E+09	1,389513E+09	1,017179E+09	3,803311E+08
-2004	8,060687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061449E+06	3,803133E+08	1,017155E+09	1,389504E+09	1,389514E+09	1,017151E+09	3,802613E+08
-2003	8,057177E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055304E+06	3,803074E+08	1,017189E+09	1,389545E+09	1,389532E+09	1,017165E+09	3,802991E+08
-2002	8,055843E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056240E+06	3,802511E+08	1,017144E+09	1,389543E+09	1,389581E+09	1,017239E+09	3,803482E+08
-2001	8,060129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060038E+06	3,803622E+08	1,017252E+09	1,389608E+09	1,389588E+09	1,017190E+09	3,802733E+08
-2000	8,055516E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,052835E+06	3,803033E+08	1,017248E+09	1,389647E+09	1,389645E+09	1,017262E+09	3,803531E+08
-1999	8,056495E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058834E+06	3,803080E+08	1,017249E+09	1,389658E+09	1,389671E+09	1,017285E+09	3,803432E+08
-1998	8,059429E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057026E+06	3,803837E+08	1,017320E+09	1,389701E+09	1,389668E+09	1,017233E+09	3,802903E+08
-1997	8,053292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053909E+06	3,802891E+08	1,017247E+09	1,389673E+09	1,389702E+09	1,017316E+09	3,803761E+08
-1996	8,057977E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060328E+06	3,803505E+08	1,017274E+09	1,389661E+09	1,389668E+09	1,017273E+09	3,803158E+08
-1995	8,057847E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054820E+06	3,803561E+08	1,017295E+09	1,389668E+09	1,389628E+09	1,017216E+09	3,803080E+08
-1994	8,053990E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055359E+06	3,802533E+08	1,017173E+09	1,389585E+09	1,389612E+09	1,017251E+09	3,803616E+08
-1993	8,061873E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059273E+06	3,803349E+08	1,017201E+09	1,389552E+09	1,389540E+09	1,017155E+09	3,802596E+08



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	8,056182E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055133E+06	3,802820E+08	1,017151E+09	1,389500E+09	1,389492E+09	1,017138E+09	3,802962E+08
-1991	8,056958E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058427E+06	3,802407E+08	1,017077E+09	1,389424E+09	1,389445E+09	1,017129E+09	3,802968E+08
-1990	8,061025E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060441E+06	3,803227E+08	1,017127E+09	1,389422E+09	1,389384E+09	1,017025E+09	3,802091E+08
-1989	8,054631E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055458E+06	3,802257E+08	1,017048E+09	1,389382E+09	1,389388E+09	1,017078E+09	3,802913E+08
-1988	8,060076E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060490E+06	3,802501E+08	1,017046E+09	1,389370E+09	1,389380E+09	1,017063E+09	3,802531E+08
-1987	8,059991E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058462E+06	3,802892E+08	1,017092E+09	1,389399E+09	1,389366E+09	1,017016E+09	3,802240E+08
-1986	8,056364E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054930E+06	3,801918E+08	1,017000E+09	1,389358E+09	1,389401E+09	1,017106E+09	3,803083E+08
-1985	8,061331E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062032E+06	3,802870E+08	1,017076E+09	1,389388E+09	1,389396E+09	1,017071E+09	3,802359E+08
-1984	8,057675E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055820E+06	3,802845E+08	1,017120E+09	1,389443E+09	1,389426E+09	1,017090E+09	3,802732E+08
-1983	8,056296E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057283E+06	3,802366E+08	1,017096E+09	1,389462E+09	1,389484E+09	1,017160E+09	3,803206E+08
-1982	8,060698E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060855E+06	3,803427E+08	1,017196E+09	1,389533E+09	1,389507E+09	1,017119E+09	3,802425E+08
-1981	8,055748E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053345E+06	3,802783E+08	1,017178E+09	1,389557E+09	1,389561E+09	1,017199E+09	3,803260E+08
-1980	8,056629E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059846E+06	3,802866E+08	1,017177E+09	1,389566E+09	1,389589E+09	1,017225E+09	3,803218E+08
-1979	8,060264E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057420E+06	3,803584E+08	1,017251E+09	1,389606E+09	1,389576E+09	1,017168E+09	3,802667E+08
-1978	8,053873E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,054203E+06	3,802575E+08	1,017163E+09	1,389557E+09	1,389584E+09	1,017234E+09	3,803531E+08
-1977	8,059324E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060295E+06	3,803134E+08	1,017185E+09	1,389544E+09	1,389546E+09	1,017183E+09	3,802873E+08
-1976	8,058976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055168E+06	3,803157E+08	1,017194E+09	1,389540E+09	1,389508E+09	1,017129E+09	3,802748E+08
-1975	8,054862E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056541E+06	3,802247E+08	1,017082E+09	1,389454E+09	1,389480E+09	1,017152E+09	3,803222E+08
-1974	8,062095E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060752E+06	3,803076E+08	1,017107E+09	1,389419E+09	1,389408E+09	1,017055E+09	3,802166E+08
-1973	8,055901E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056247E+06	3,802553E+08	1,017060E+09	1,389367E+09	1,389357E+09	1,017043E+09	3,802603E+08
-1972	8,057205E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059434E+06	3,802153E+08	1,016997E+09	1,389313E+09	1,389331E+09	1,017043E+09	3,802695E+08
-1971	8,062209E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060670E+06	3,802890E+08	1,017050E+09	1,389323E+09	1,389283E+09	1,016949E+09	3,801843E+08
-1970	8,056005E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055390E+06	3,801863E+08	1,016953E+09	1,389265E+09	1,389278E+09	1,017000E+09	3,802679E+08
-1969	8,061488E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060710E+06	3,802135E+08	1,016954E+09	1,389253E+09	1,389269E+09	1,016987E+09	3,802262E+08
-1968	8,060697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059209E+06	3,802602E+08	1,017005E+09	1,389282E+09	1,389260E+09	1,016945E+09	3,801957E+08
-1967	8,056615E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056343E+06	3,801795E+08	1,016942E+09	1,389256E+09	1,389289E+09	1,017024E+09	3,802770E+08
-1966	8,061191E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063144E+06	3,802711E+08	1,017022E+09	1,389304E+09	1,389300E+09	1,016993E+09	3,802043E+08
-1965	8,057748E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056101E+06	3,802617E+08	1,017059E+09	1,389360E+09	1,389339E+09	1,017022E+09	3,802479E+08
-1964	8,056746E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057838E+06	3,802113E+08	1,017031E+09	1,389385E+09	1,389413E+09	1,017102E+09	3,803005E+08
-1963	8,061889E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060882E+06	3,803124E+08	1,017124E+09	1,389447E+09	1,389432E+09	1,017065E+09	3,802219E+08
-1962	8,056476E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,053602E+06	3,802469E+08	1,017091E+09	1,389442E+09	1,389457E+09	1,017131E+09	3,803043E+08
-1961	8,057442E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060135E+06	3,802577E+08	1,017099E+09	1,389451E+09	1,389472E+09	1,017147E+09	3,802969E+08
-1960	8,060998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057818E+06	3,803280E+08	1,017171E+09	1,389494E+09	1,389462E+09	1,017088E+09	3,802390E+08
-1959	8,054602E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055267E+06	3,802349E+08	1,017090E+09	1,389446E+09	1,389462E+09	1,017139E+09	3,803194E+08
-1958	8,060059E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061206E+06	3,802836E+08	1,017100E+09	1,389430E+09	1,389431E+09	1,017091E+09	3,802486E+08
-1957	8,059143E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056287E+06	3,802856E+08	1,017099E+09	1,389410E+09	1,389384E+09	1,017040E+09	3,802377E+08

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	8,054988E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057917E+06	3,801998E+08	1,016995E+09	1,389333E+09	1,389362E+09	1,017065E+09	3,802899E+08
-1955	8,062768E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061503E+06	3,802799E+08	1,017029E+09	1,389306E+09	1,389291E+09	1,016970E+09	3,801865E+08
-1954	8,056545E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056483E+06	3,802206E+08	1,016972E+09	1,389246E+09	1,389231E+09	1,016951E+09	3,802327E+08
-1953	8,058641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059239E+06	3,801768E+08	1,016910E+09	1,389199E+09	1,389212E+09	1,016956E+09	3,802412E+08
-1952	8,063354E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060934E+06	3,802481E+08	1,016953E+09	1,389204E+09	1,389175E+09	1,016873E+09	3,801557E+08
-1951	8,056976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056564E+06	3,801609E+08	1,016868E+09	1,389143E+09	1,389159E+09	1,016915E+09	3,802342E+08
-1950	8,061595E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061995E+06	3,801891E+08	1,016872E+09	1,389136E+09	1,389156E+09	1,016904E+09	3,801911E+08
-1949	8,060419E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060157E+06	3,802380E+08	1,016929E+09	1,389169E+09	1,389146E+09	1,016867E+09	3,801672E+08
-1948	8,056763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057128E+06	3,801591E+08	1,016881E+09	1,389171E+09	1,389197E+09	1,016952E+09	3,802552E+08
-1947	8,062193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063094E+06	3,802435E+08	1,016963E+09	1,389229E+09	1,389221E+09	1,016932E+09	3,801844E+08
-1946	8,058888E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055905E+06	3,802302E+08	1,016984E+09	1,389267E+09	1,389250E+09	1,016958E+09	3,802278E+08
-1945	8,057893E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058135E+06	3,801835E+08	1,016959E+09	1,389288E+09	1,389319E+09	1,017038E+09	3,802763E+08
-1944	8,062326E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061529E+06	3,802877E+08	1,017051E+09	1,389345E+09	1,389336E+09	1,017003E+09	3,801974E+08
-1943	8,056766E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055130E+06	3,802351E+08	1,017034E+09	1,389344E+09	1,389347E+09	1,017050E+09	3,802730E+08
-1942	8,057409E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061026E+06	3,802352E+08	1,017032E+09	1,389356E+09	1,389368E+09	1,017064E+09	3,802631E+08
-1941	8,061111E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058255E+06	3,802971E+08	1,017090E+09	1,389386E+09	1,389353E+09	1,017007E+09	3,802087E+08
-1940	8,055094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056106E+06	3,802035E+08	1,017004E+09	1,389339E+09	1,389358E+09	1,017058E+09	3,802908E+08
-1939	8,061135E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061490E+06	3,802478E+08	1,017007E+09	1,389309E+09	1,389317E+09	1,017012E+09	3,802196E+08
-1938	8,059771E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056773E+06	3,802497E+08	1,016996E+09	1,389266E+09	1,389245E+09	1,016947E+09	3,802089E+08
-1937	8,056169E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058133E+06	3,801657E+08	1,016905E+09	1,389199E+09	1,389221E+09	1,016968E+09	3,802584E+08
-1936	8,063697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061813E+06	3,802427E+08	1,016939E+09	1,389184E+09	1,389165E+09	1,016880E+09	3,801576E+08
-1935	8,057775E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057485E+06	3,801924E+08	1,016891E+09	1,389130E+09	1,389106E+09	1,016853E+09	3,801971E+08
-1934	8,059513E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060046E+06	3,801437E+08	1,016820E+09	1,389085E+09	1,389101E+09	1,016868E+09	3,802030E+08
-1933	8,063425E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062128E+06	3,802182E+08	1,016860E+09	1,389080E+09	1,389059E+09	1,016793E+09	3,801230E+08
-1932	8,057048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057949E+06	3,801399E+08	1,016791E+09	1,389035E+09	1,389053E+09	1,016838E+09	3,802066E+08
-1931	8,062017E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062616E+06	3,801652E+08	1,016805E+09	1,389039E+09	1,389054E+09	1,016833E+09	3,801673E+08
-1930	8,060970E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060177E+06	3,802082E+08	1,016855E+09	1,389067E+09	1,389041E+09	1,016792E+09	3,801462E+08
-1929	8,058066E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056804E+06	3,801278E+08	1,016813E+09	1,389081E+09	1,389103E+09	1,016882E+09	3,802317E+08
-1928	8,063039E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063215E+06	3,802110E+08	1,016888E+09	1,389139E+09	1,389137E+09	1,016872E+09	3,801625E+08
-1927	8,059702E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057042E+06	3,802124E+08	1,016917E+09	1,389169E+09	1,389151E+09	1,016885E+09	3,801973E+08
-1926	8,057773E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059318E+06	3,801651E+08	1,016892E+09	1,389191E+09	1,389221E+09	1,016965E+09	3,802445E+08
-1925	8,061947E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062400E+06	3,802670E+08	1,016983E+09	1,389243E+09	1,389231E+09	1,016931E+09	3,801711E+08
-1924	8,056907E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056011E+06	3,802125E+08	1,016970E+09	1,389258E+09	1,389253E+09	1,016976E+09	3,802506E+08
-1923	8,058515E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060946E+06	3,802016E+08	1,016957E+09	1,389263E+09	1,389276E+09	1,016994E+09	3,802409E+08
-1922	8,062271E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058175E+06	3,802571E+08	1,016992E+09	1,389264E+09	1,389239E+09	1,016927E+09	3,801844E+08
-1921	8,056444E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056423E+06	3,801693E+08	1,016912E+09	1,389211E+09	1,389232E+09	1,016972E+09	3,802590E+08

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°
-1920	8,061760E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062123E+06	3,802161E+08	1,016918E+09	1,389181E+09	1,389189E+09	1,016924E+09	3,801886E+08
-1919	8,060310E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058355E+06	3,802305E+08	1,016922E+09	1,389145E+09	1,389108E+09	1,016842E+09	3,801693E+08
-1918	8,056514E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059041E+06	3,801376E+08	1,016825E+09	1,389088E+09	1,389101E+09	1,016870E+09	3,802181E+08
-1917	8,063830E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062594E+06	3,802080E+08	1,016847E+09	1,389065E+09	1,389049E+09	1,016794E+09	3,801244E+08
-1916	8,058333E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058611E+06	3,801589E+08	1,016798E+09	1,389019E+09	1,389001E+09	1,016773E+09	3,801676E+08
-1915	8,060440E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060579E+06	3,801086E+08	1,016725E+09	1,388963E+09	1,388991E+09	1,016793E+09	3,801750E+08
-1914	8,063777E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062663E+06	3,801838E+08	1,016761E+09	1,388943E+09	1,388929E+09	1,016709E+09	3,800985E+08
-1913	8,058124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058073E+06	3,801111E+08	1,016713E+09	1,388916E+09	1,388926E+09	1,016751E+09	3,801794E+08
-1912	8,062728E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062714E+06	3,801333E+08	1,016730E+09	1,388937E+09	1,388947E+09	1,016755E+09	3,801450E+08
-1911	8,062180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061045E+06	3,801877E+08	1,016791E+09	1,388975E+09	1,388939E+09	1,016710E+09	3,801162E+08
-1910	8,058744E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057626E+06	3,801044E+08	1,016746E+09	1,388995E+09	1,389018E+09	1,016811E+09	3,801981E+08
-1909	8,062763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064339E+06	3,801903E+08	1,016818E+09	1,389044E+09	1,389048E+09	1,016810E+09	3,801369E+08
-1908	8,059697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058309E+06	3,801970E+08	1,016862E+09	1,389093E+09	1,389070E+09	1,016822E+09	3,801747E+08
-1907	8,058057E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059632E+06	3,801420E+08	1,016834E+09	1,389111E+09	1,389136E+09	1,016904E+09	3,802245E+08
-1906	8,062550E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061992E+06	3,802318E+08	1,016904E+09	1,389143E+09	1,389131E+09	1,016860E+09	3,801535E+08
-1905	8,058434E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,055670E+06	3,801754E+08	1,016886E+09	1,389149E+09	1,389146E+09	1,016900E+09	3,802259E+08
-1904	8,059636E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061034E+06	3,801624E+08	1,016860E+09	1,389143E+09	1,389164E+09	1,016918E+09	3,802154E+08
-1903	8,063285E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059635E+06	3,802331E+08	1,016902E+09	1,389132E+09	1,389106E+09	1,016830E+09	3,801468E+08
-1902	8,056598E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057805E+06	3,801452E+08	1,016829E+09	1,389086E+09	1,389101E+09	1,016871E+09	3,802158E+08
-1901	8,061404E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063219E+06	3,801901E+08	1,016836E+09	1,389059E+09	1,389059E+09	1,016827E+09	3,801537E+08
-1900	8,060566E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059532E+06	3,802027E+08	1,016846E+09	1,389047E+09	1,388998E+09	1,016751E+09	3,801382E+08
-1899	8,057636E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059308E+06	3,801019E+08	1,016739E+09	1,388981E+09	1,388997E+09	1,016792E+09	3,801902E+08
-1898	8,064745E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062902E+06	3,801661E+08	1,016741E+09	1,388932E+09	1,388928E+09	1,016712E+09	3,800996E+08
-1897	8,059658E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059133E+06	3,801246E+08	1,016700E+09	1,388883E+09	1,388873E+09	1,016689E+09	3,801383E+08
-1896	8,061199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061160E+06	3,800767E+08	1,016635E+09	1,388836E+09	1,388866E+09	1,016709E+09	3,801485E+08
-1895	8,064454E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063929E+06	3,801624E+08	1,016687E+09	1,388826E+09	1,388799E+09	1,016610E+09	3,800636E+08
-1894	8,058668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058554E+06	3,800850E+08	1,016644E+09	1,388821E+09	1,388820E+09	1,016662E+09	3,801421E+08
-1893	8,062723E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063379E+06	3,801057E+08	1,016658E+09	1,388843E+09	1,388853E+09	1,016682E+09	3,801171E+08
-1892	8,062611E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062002E+06	3,801639E+08	1,016724E+09	1,388897E+09	1,388862E+09	1,016648E+09	3,800923E+08
-1891	8,059368E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058206E+06	3,800808E+08	1,016677E+09	1,388907E+09	1,388939E+09	1,016757E+09	3,801772E+08
-1890	8,062956E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064578E+06	3,801617E+08	1,016740E+09	1,388937E+09	1,388949E+09	1,016747E+09	3,801213E+08
-1889	8,060862E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058191E+06	3,801688E+08	1,016792E+09	1,388992E+09	1,388968E+09	1,016753E+09	3,801542E+08
-1888	8,058940E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059479E+06	3,801079E+08	1,016757E+09	1,389013E+09	1,389039E+09	1,016833E+09	3,802048E+08
-1887	8,063860E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062739E+06	3,802052E+08	1,016826E+09	1,389035E+09	1,389020E+09	1,016772E+09	3,801212E+08
-1886	8,059055E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,056766E+06	3,801503E+08	1,016806E+09	1,389039E+09	1,389037E+09	1,016812E+09	3,801853E+08
-1885	8,059252E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062542E+06	3,801417E+08	1,016780E+09	1,389024E+09	1,389045E+09	1,016831E+09	3,801808E+08

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												
-1884	8,063160E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061402E+06	3,802166E+08	1,016837E+09	1,389035E+09	1,388997E+09	1,016744E+09	3,801146E+08
-1883	8,056945E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058539E+06	3,801198E+08	1,016759E+09	1,388989E+09	1,388997E+09	1,016789E+09	3,801856E+08
-1882	8,061952E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063043E+06	3,801500E+08	1,016744E+09	1,388944E+09	1,388944E+09	1,016743E+09	3,801305E+08
-1881	8,062191E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059475E+06	3,801597E+08	1,016747E+09	1,388921E+09	1,388881E+09	1,016668E+09	3,801101E+08
-1880	8,058981E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059374E+06	3,800571E+08	1,016627E+09	1,388844E+09	1,388873E+09	1,016709E+09	3,801640E+08
-1879	8,065891E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064214E+06	3,801348E+08	1,016636E+09	1,388783E+09	1,388783E+09	1,016610E+09	3,800633E+08
-1878	8,060197E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060282E+06	3,800968E+08	1,016609E+09	1,388746E+09	1,388733E+09	1,016584E+09	3,800966E+08
-1877	8,061144E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062073E+06	3,800497E+08	1,016552E+09	1,388714E+09	1,388736E+09	1,016612E+09	3,801157E+08
-1876	8,064926E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064909E+06	3,801368E+08	1,016619E+09	1,388740E+09	1,388701E+09	1,016527E+09	3,800357E+08
-1875	8,059796E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058751E+06	3,800563E+08	1,016575E+09	1,388737E+09	1,388739E+09	1,016597E+09	3,801161E+08
-1874	8,063248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063631E+06	3,800737E+08	1,016577E+09	1,388743E+09	1,388763E+09	1,016621E+09	3,800983E+08
-1873	8,063711E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062363E+06	3,801391E+08	1,016653E+09	1,388795E+09	1,388770E+09	1,016588E+09	3,800703E+08
-1872	8,059903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058672E+06	3,800568E+08	1,016609E+09	1,388811E+09	1,388845E+09	1,016695E+09	3,801580E+08
-1871	8,063564E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065544E+06	3,801418E+08	1,016675E+09	1,388839E+09	1,388843E+09	1,016666E+09	3,800930E+08
-1870	8,061419E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058661E+06	3,801432E+08	1,016723E+09	1,388899E+09	1,388871E+09	1,016671E+09	3,801193E+08
-1869	8,058858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060316E+06	3,800810E+08	1,016679E+09	1,388910E+09	1,388938E+09	1,016757E+09	3,801752E+08
-1868	8,064210E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063963E+06	3,801820E+08	1,016753E+09	1,388942E+09	1,388924E+09	1,016698E+09	3,800920E+08
-1867	8,059421E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,057750E+06	3,801287E+08	1,016733E+09	1,388936E+09	1,388936E+09	1,016739E+09	3,801554E+08
-1866	8,059333E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062916E+06	3,801126E+08	1,016699E+09	1,388906E+09	1,388927E+09	1,016749E+09	3,801572E+08
-1865	8,064329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061416E+06	3,801835E+08	1,016756E+09	1,388919E+09	1,388879E+09	1,016662E+09	3,800891E+08
-1864	8,058287E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058399E+06	3,800791E+08	1,016666E+09	1,388874E+09	1,388885E+09	1,016708E+09	3,801624E+08
-1863	8,063683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063692E+06	3,801121E+08	1,016641E+09	1,388811E+09	1,388816E+09	1,016646E+09	3,800962E+08
-1862	8,063236E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060564E+06	3,801243E+08	1,016644E+09	1,388785E+09	1,388752E+09	1,016570E+09	3,800681E+08
-1861	8,059055E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060819E+06	3,800301E+08	1,016530E+09	1,388703E+09	1,388734E+09	1,016612E+09	3,801271E+08
-1860	8,065934E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065804E+06	3,801121E+08	1,016560E+09	1,388671E+09	1,388658E+09	1,016514E+09	3,800286E+08
-1859	8,060636E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060967E+06	3,800715E+08	1,016536E+09	1,388644E+09	1,388623E+09	1,016498E+09	3,800637E+08
-1858	8,061582E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061951E+06	3,800137E+08	1,016468E+09	1,388606E+09	1,388629E+09	1,016532E+09	3,800915E+08
-1857	8,066259E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064944E+06	3,801017E+08	1,016536E+09	1,388632E+09	1,388605E+09	1,016460E+09	3,800118E+08
-1856	8,060986E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058987E+06	3,800229E+08	1,016488E+09	1,388631E+09	1,388646E+09	1,016535E+09	3,800948E+08
-1855	8,063966E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064889E+06	3,800517E+08	1,016498E+09	1,388628E+09	1,388651E+09	1,016542E+09	3,800697E+08
-1854	8,064062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063183E+06	3,801180E+08	1,016585E+09	1,388692E+09	1,388663E+09	1,016508E+09	3,800370E+08
-1853	8,059665E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059504E+06	3,800360E+08	1,016544E+09	1,388713E+09	1,388741E+09	1,016618E+09	3,801313E+08
-1852	8,063892E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066291E+06	3,801188E+08	1,016616E+09	1,388764E+09	1,388758E+09	1,016596E+09	3,800683E+08
-1851	8,062271E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059095E+06	3,801187E+08	1,016656E+09	1,388814E+09	1,388790E+09	1,016609E+09	3,800929E+08
-1850	8,059178E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060695E+06	3,800521E+08	1,016599E+09	1,388804E+09	1,388840E+09	1,016689E+09	3,801540E+08
-1849	8,065267E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064381E+06	3,801570E+08	1,016679E+09	1,388832E+09	1,388820E+09	1,016629E+09	3,800689E+08



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	8,060260E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058037E+06	3,800994E+08	1,016658E+09	1,388830E+09	1,388828E+09	1,016662E+09	3,801318E+08
-1847	8,060413E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063420E+06	3,800823E+08	1,016617E+09	1,388791E+09	1,388804E+09	1,016655E+09	3,801253E+08
-1846	8,065352E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061741E+06	3,801464E+08	1,016666E+09	1,388801E+09	1,388762E+09	1,016567E+09	3,800502E+08
-1845	8,058678E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059301E+06	3,800428E+08	1,016563E+09	1,388740E+09	1,388758E+09	1,016617E+09	3,801279E+08
-1844	8,064341E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065047E+06	3,800804E+08	1,016545E+09	1,388685E+09	1,388692E+09	1,016556E+09	3,800615E+08
-1843	8,063666E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061930E+06	3,800968E+08	1,016550E+09	1,388650E+09	1,388622E+09	1,016480E+09	3,800325E+08
-1842	8,059261E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061285E+06	3,799981E+08	1,016438E+09	1,388566E+09	1,388594E+09	1,016515E+09	3,800977E+08
-1841	8,066987E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065981E+06	3,800782E+08	1,016475E+09	1,388548E+09	1,388532E+09	1,016425E+09	3,800003E+08
-1840	8,061943E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060937E+06	3,800350E+08	1,016452E+09	1,388536E+09	1,388515E+09	1,016418E+09	3,800379E+08
-1839	8,062933E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062720E+06	3,799835E+08	1,016382E+09	1,388492E+09	1,388517E+09	1,016447E+09	3,800590E+08
-1838	8,066903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066000E+06	3,800761E+08	1,016457E+09	1,388524E+09	1,388502E+09	1,016382E+09	3,799770E+08
-1837	8,060869E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060383E+06	3,800053E+08	1,016418E+09	1,388525E+09	1,388542E+09	1,016463E+09	3,800665E+08
-1836	8,063836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066146E+06	3,800351E+08	1,016445E+09	1,388551E+09	1,388561E+09	1,016472E+09	3,800439E+08
-1835	8,064372E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063536E+06	3,800960E+08	1,016528E+09	1,388616E+09	1,388583E+09	1,016446E+09	3,800124E+08
-1834	8,059972E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059221E+06	3,800042E+08	1,016472E+09	1,388621E+09	1,388651E+09	1,016554E+09	3,801126E+08
-1833	8,065060E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066020E+06	3,800847E+08	1,016535E+09	1,388660E+09	1,388668E+09	1,016538E+09	3,800491E+08
-1832	8,063500E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059234E+06	3,800876E+08	1,016574E+09	1,388707E+09	1,388693E+09	1,016546E+09	3,800724E+08
-1831	8,060093E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061735E+06	3,800281E+08	1,016518E+09	1,388683E+09	1,388718E+09	1,016603E+09	3,801229E+08
-1830	8,065858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064970E+06	3,801307E+08	1,016604E+09	1,388720E+09	1,388701E+09	1,016538E+09	3,800341E+08
-1829	8,060443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,058924E+06	3,800719E+08	1,016579E+09	1,388720E+09	1,388710E+09	1,016573E+09	3,800998E+08
-1828	8,061074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064186E+06	3,800519E+08	1,016541E+09	1,388693E+09	1,388699E+09	1,016570E+09	3,800929E+08
-1827	8,066080E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062683E+06	3,801153E+08	1,016577E+09	1,388687E+09	1,388655E+09	1,016488E+09	3,800162E+08
-1826	8,058914E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060144E+06	3,800109E+08	1,016464E+09	1,388602E+09	1,388628E+09	1,016529E+09	3,800984E+08
-1825	8,065206E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065800E+06	3,800505E+08	1,016451E+09	1,388545E+09	1,388560E+09	1,016469E+09	3,800317E+08
-1824	8,064453E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062559E+06	3,800647E+08	1,016462E+09	1,388525E+09	1,388492E+09	1,016387E+09	3,800030E+08
-1823	8,060381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061782E+06	3,799651E+08	1,016349E+09	1,388441E+09	1,388460E+09	1,016410E+09	3,800605E+08
-1822	8,067862E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066272E+06	3,800411E+08	1,016387E+09	1,388434E+09	1,388415E+09	1,016330E+09	3,799631E+08
-1821	8,062435E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061783E+06	3,800029E+08	1,016362E+09	1,388420E+09	1,388402E+09	1,016336E+09	3,800055E+08
-1820	8,063385E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063984E+06	3,799595E+08	1,016308E+09	1,388393E+09	1,388417E+09	1,016373E+09	3,800294E+08
-1819	8,067058E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067152E+06	3,800555E+08	1,016386E+09	1,388423E+09	1,388403E+09	1,016316E+09	3,799505E+08
-1818	8,061009E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060522E+06	3,799784E+08	1,016346E+09	1,388421E+09	1,388436E+09	1,016392E+09	3,800478E+08
-1817	8,064855E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065837E+06	3,800022E+08	1,016371E+09	1,388453E+09	1,388469E+09	1,016409E+09	3,800269E+08
-1816	8,065868E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063093E+06	3,800595E+08	1,016449E+09	1,388522E+09	1,388494E+09	1,016382E+09	3,799944E+08
-1815	8,061342E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059698E+06	3,799747E+08	1,016390E+09	1,388513E+09	1,388546E+09	1,016476E+09	3,800838E+08
-1814	8,065698E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066811E+06	3,800613E+08	1,016463E+09	1,388555E+09	1,388561E+09	1,016459E+09	3,800169E+08
-1813	8,063412E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060638E+06	3,800720E+08	1,016509E+09	1,388603E+09	1,388582E+09	1,016467E+09	3,800413E+08

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	8,060050E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063108E+06	3,800129E+08	1,016467E+09	1,388602E+09	1,388620E+09	1,016523E+09	3,800913E+08
-1811	8,065991E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065609E+06	3,801065E+08	1,016539E+09	1,388632E+09	1,388608E+09	1,016465E+09	3,800040E+08
-1810	8,060704E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059134E+06	3,800364E+08	1,016492E+09	1,388609E+09	1,388604E+09	1,016496E+09	3,800743E+08
-1809	8,062219E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064283E+06	3,800121E+08	1,016439E+09	1,388565E+09	1,388588E+09	1,016497E+09	3,800675E+08
-1808	8,067193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063253E+06	3,800776E+08	1,016474E+09	1,388550E+09	1,388527E+09	1,016405E+09	3,799896E+08
-1807	8,059898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061160E+06	3,799801E+08	1,016365E+09	1,388453E+09	1,388475E+09	1,016421E+09	3,800615E+08
-1806	8,065990E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066268E+06	3,800171E+08	1,016361E+09	1,388411E+09	1,388413E+09	1,016359E+09	3,799930E+08
-1805	8,064858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063399E+06	3,800327E+08	1,016373E+09	1,388402E+09	1,388360E+09	1,016286E+09	3,799674E+08
-1804	8,061333E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062585E+06	3,799351E+08	1,016273E+09	1,388341E+09	1,388353E+09	1,016321E+09	3,800243E+08
-1803	8,068308E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067348E+06	3,800128E+08	1,016306E+09	1,388330E+09	1,388317E+09	1,016258E+09	3,799321E+08
-1802	8,062697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062550E+06	3,799752E+08	1,016279E+09	1,388307E+09	1,388295E+09	1,016264E+09	3,799814E+08
-1801	8,064083E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064414E+06	3,799317E+08	1,016230E+09	1,388283E+09	1,388315E+09	1,016308E+09	3,800088E+08
-1800	8,067904E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067287E+06	3,800243E+08	1,016312E+09	1,388324E+09	1,388304E+09	1,016248E+09	3,799317E+08
-1799	8,062173E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060623E+06	3,799472E+08	1,016266E+09	1,388314E+09	1,388325E+09	1,016308E+09	3,800196E+08
-1798	8,065655E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065873E+06	3,799682E+08	1,016291E+09	1,388349E+09	1,388365E+09	1,016330E+09	3,799974E+08
-1797	8,066281E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064028E+06	3,800339E+08	1,016369E+09	1,388416E+09	1,388392E+09	1,016309E+09	3,799658E+08
-1796	8,061572E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061223E+06	3,799597E+08	1,016331E+09	1,388424E+09	1,388450E+09	1,016401E+09	3,800516E+08
-1795	8,065375E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068104E+06	3,800475E+08	1,016407E+09	1,388466E+09	1,388466E+09	1,016389E+09	3,799888E+08
-1794	8,063360E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061065E+06	3,800489E+08	1,016446E+09	1,388510E+09	1,388480E+09	1,016392E+09	3,800183E+08
-1793	8,060858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063011E+06	3,799805E+08	1,016391E+09	1,388505E+09	1,388528E+09	1,016456E+09	3,800708E+08
-1792	8,067390E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065412E+06	3,800670E+08	1,016450E+09	1,388526E+09	1,388510E+09	1,016396E+09	3,799831E+08
-1791	8,062059E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,059853E+06	3,800006E+08	1,016391E+09	1,388476E+09	1,388477E+09	1,016405E+09	3,800423E+08
-1790	8,063158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064953E+06	3,799789E+08	1,016342E+09	1,388428E+09	1,388451E+09	1,016400E+09	3,800327E+08
-1789	8,067470E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064626E+06	3,800502E+08	1,016383E+09	1,388416E+09	1,388386E+09	1,016303E+09	3,799535E+08
-1788	8,060381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062334E+06	3,799559E+08	1,016294E+09	1,388345E+09	1,388347E+09	1,016317E+09	3,800207E+08
-1787	8,066216E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066933E+06	3,799866E+08	1,016282E+09	1,388304E+09	1,388300E+09	1,016267E+09	3,799569E+08
-1786	8,065216E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063691E+06	3,799942E+08	1,016279E+09	1,388283E+09	1,388245E+09	1,016201E+09	3,799379E+08
-1785	8,062512E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062891E+06	3,798974E+08	1,016172E+09	1,388217E+09	1,388247E+09	1,016250E+09	3,799993E+08
-1784	8,069295E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068023E+06	3,799777E+08	1,016209E+09	1,388204E+09	1,388203E+09	1,016185E+09	3,799105E+08
-1783	8,063757E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063289E+06	3,799448E+08	1,016187E+09	1,388175E+09	1,388164E+09	1,016173E+09	3,799525E+08
-1782	8,064945E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064593E+06	3,798996E+08	1,016149E+09	1,388169E+09	1,388192E+09	1,016217E+09	3,799790E+08
-1781	8,068328E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067869E+06	3,799944E+08	1,016233E+09	1,388219E+09	1,388194E+09	1,016165E+09	3,799031E+08
-1780	8,062942E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061500E+06	3,799265E+08	1,016206E+09	1,388229E+09	1,388233E+09	1,016231E+09	3,799861E+08
-1779	8,065554E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067179E+06	3,799516E+08	1,016229E+09	1,388263E+09	1,388280E+09	1,016265E+09	3,799689E+08
-1778	8,066163E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065034E+06	3,800179E+08	1,016309E+09	1,388325E+09	1,388300E+09	1,016245E+09	3,799432E+08
-1777	8,061959E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061919E+06	3,799408E+08	1,016272E+09	1,388340E+09	1,388368E+09	1,016343E+09	3,800316E+08

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												
-1776	8,066079E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068126E+06	3,800194E+08	1,016343E+09	1,388385E+09	1,388382E+09	1,016326E+09	3,799718E+08
-1775	8,064594E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,060963E+06	3,800134E+08	1,016364E+09	1,388407E+09	1,388376E+09	1,016311E+09	3,799920E+08
-1774	8,061955E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062781E+06	3,799398E+08	1,016298E+09	1,388390E+09	1,388416E+09	1,016373E+09	3,800416E+08
-1773	8,068067E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066213E+06	3,800315E+08	1,016349E+09	1,388395E+09	1,388387E+09	1,016311E+09	3,799522E+08
-1772	8,062622E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061521E+06	3,799786E+08	1,016309E+09	1,388351E+09	1,388347E+09	1,016308E+09	3,800031E+08
-1771	8,063116E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066274E+06	3,799565E+08	1,016262E+09	1,388305E+09	1,388320E+09	1,016303E+09	3,799968E+08
-1770	8,067650E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065323E+06	3,800192E+08	1,016298E+09	1,388294E+09	1,388255E+09	1,016205E+09	3,799219E+08
-1769	8,061448E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062446E+06	3,799176E+08	1,016200E+09	1,388228E+09	1,388235E+09	1,016231E+09	3,799909E+08
-1768	8,067548E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067015E+06	3,799452E+08	1,016185E+09	1,388187E+09	1,388190E+09	1,016188E+09	3,799311E+08
-1767	8,066469E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064535E+06	3,799580E+08	1,016177E+09	1,388147E+09	1,388117E+09	1,016110E+09	3,799051E+08
-1766	8,063433E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063606E+06	3,798665E+08	1,016080E+09	1,388086E+09	1,388116E+09	1,016160E+09	3,799672E+08
-1765	8,069463E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069372E+06	3,799517E+08	1,016126E+09	1,388083E+09	1,388078E+09	1,016096E+09	3,798805E+08
-1764	8,064325E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064374E+06	3,799241E+08	1,016123E+09	1,388078E+09	1,388054E+09	1,016083E+09	3,799167E+08
-1763	8,065010E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065276E+06	3,798745E+08	1,016079E+09	1,388076E+09	1,388096E+09	1,016140E+09	3,799484E+08
-1762	8,068535E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068205E+06	3,799637E+08	1,016155E+09	1,388119E+09	1,388099E+09	1,016095E+09	3,798786E+08
-1761	8,063747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061915E+06	3,798998E+08	1,016128E+09	1,388133E+09	1,388150E+09	1,016173E+09	3,799643E+08
-1760	8,066179E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067749E+06	3,799278E+08	1,016161E+09	1,388169E+09	1,388191E+09	1,016205E+09	3,799521E+08
-1759	8,067153E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065352E+06	3,799927E+08	1,016238E+09	1,388221E+09	1,388193E+09	1,016168E+09	3,799202E+08
-1758	8,062989E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061781E+06	3,799098E+08	1,016201E+09	1,388244E+09	1,388264E+09	1,016265E+09	3,800072E+08
-1757	8,066863E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068393E+06	3,799852E+08	1,016261E+09	1,388284E+09	1,388282E+09	1,016250E+09	3,799464E+08
-1756	8,065635E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,061948E+06	3,799877E+08	1,016290E+09	1,388307E+09	1,388277E+09	1,016231E+09	3,799566E+08
-1755	8,061955E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064202E+06	3,799180E+08	1,016218E+09	1,388277E+09	1,388307E+09	1,016294E+09	3,800081E+08
-1754	8,067999E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067348E+06	3,800069E+08	1,016265E+09	1,388270E+09	1,388262E+09	1,016224E+09	3,799218E+08
-1753	8,063055E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062503E+06	3,799532E+08	1,016227E+09	1,388235E+09	1,388231E+09	1,016222E+09	3,799725E+08
-1752	8,063954E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066484E+06	3,799230E+08	1,016178E+09	1,388192E+09	1,388203E+09	1,016214E+09	3,799689E+08
-1751	8,068864E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065446E+06	3,799774E+08	1,016197E+09	1,388164E+09	1,388126E+09	1,016106E+09	3,798889E+08
-1750	8,062828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062510E+06	3,798745E+08	1,016096E+09	1,388097E+09	1,388107E+09	1,016138E+09	3,799568E+08
-1749	8,068231E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068054E+06	3,799086E+08	1,016079E+09	1,388049E+09	1,388061E+09	1,016098E+09	3,798992E+08
-1748	8,067123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066283E+06	3,799362E+08	1,016095E+09	1,388021E+09	1,387988E+09	1,016015E+09	3,798666E+08
-1747	8,063464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064865E+06	3,798451E+08	1,016003E+09	1,387969E+09	1,387993E+09	1,016070E+09	3,799335E+08
-1746	8,069553E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069901E+06	3,799210E+08	1,016045E+09	1,387971E+09	1,387962E+09	1,016010E+09	3,798529E+08
-1745	8,065318E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064518E+06	3,798913E+08	1,016040E+09	1,387978E+09	1,387963E+09	1,016012E+09	3,798915E+08
-1744	8,066117E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065442E+06	3,798425E+08	1,016001E+09	1,387979E+09	1,388008E+09	1,016075E+09	3,799275E+08
-1743	8,069572E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068717E+06	3,799355E+08	1,016074E+09	1,388010E+09	1,387996E+09	1,016023E+09	3,798549E+08
-1742	8,064732E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062332E+06	3,798769E+08	1,016062E+09	1,388035E+09	1,388046E+09	1,016100E+09	3,799384E+08
-1741	8,066329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068694E+06	3,799068E+08	1,016099E+09	1,388079E+09	1,388095E+09	1,016134E+09	3,799278E+08

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												
-1740	8,067790E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066153E+06	3,799750E+08	1,016185E+09	1,388142E+09	1,388105E+09	1,016093E+09	3,798870E+08
-1739	8,062933E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062483E+06	3,798857E+08	1,016133E+09	1,388155E+09	1,388176E+09	1,016195E+09	3,799774E+08
-1738	8,067022E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068851E+06	3,799525E+08	1,016174E+09	1,388175E+09	1,388182E+09	1,016179E+09	3,799202E+08
-1737	8,066243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062858E+06	3,799582E+08	1,016196E+09	1,388188E+09	1,388174E+09	1,016160E+09	3,799301E+08
-1736	8,062589E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064959E+06	3,798910E+08	1,016133E+09	1,388155E+09	1,388187E+09	1,016212E+09	3,799837E+08
-1735	8,069045E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067729E+06	3,799743E+08	1,016176E+09	1,388138E+09	1,388124E+09	1,016125E+09	3,798921E+08
-1734	8,064294E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062447E+06	3,799159E+08	1,016139E+09	1,388112E+09	1,388097E+09	1,016121E+09	3,799387E+08
-1733	8,064944E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066845E+06	3,798842E+08	1,016082E+09	1,388070E+09	1,388081E+09	1,016119E+09	3,799353E+08
-1732	8,069926E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066729E+06	3,799487E+08	1,016110E+09	1,388043E+09	1,388007E+09	1,016012E+09	3,798477E+08
-1731	8,062995E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064101E+06	3,798505E+08	1,016008E+09	1,387972E+09	1,387986E+09	1,016049E+09	3,799202E+08
-1730	8,068310E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069254E+06	3,798806E+08	1,015990E+09	1,387922E+09	1,387934E+09	1,016009E+09	3,798685E+08
-1729	8,067689E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067256E+06	3,799068E+08	1,016009E+09	1,387907E+09	1,387878E+09	1,015933E+09	3,798385E+08
-1728	8,064482E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064873E+06	3,798112E+08	1,015920E+09	1,387860E+09	1,387884E+09	1,015990E+09	3,799091E+08
-1727	8,070722E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069643E+06	3,798789E+08	1,015949E+09	1,387849E+09	1,387845E+09	1,015925E+09	3,798258E+08
-1726	8,066718E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064402E+06	3,798545E+08	1,015949E+09	1,387860E+09	1,387849E+09	1,015933E+09	3,798623E+08
-1725	8,066613E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066477E+06	3,798160E+08	1,015918E+09	1,387867E+09	1,387901E+09	1,016000E+09	3,798999E+08
-1724	8,069997E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070273E+06	3,799239E+08	1,016017E+09	1,387913E+09	1,387893E+09	1,015946E+09	3,798225E+08
-1723	8,064645E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063514E+06	3,798636E+08	1,016010E+09	1,387951E+09	1,387953E+09	1,016028E+09	3,799095E+08
-1722	8,066254E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069052E+06	3,798803E+08	1,016034E+09	1,387993E+09	1,388004E+09	1,016065E+09	3,799043E+08
-1721	8,068570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066325E+06	3,799441E+08	1,016110E+09	1,388056E+09	1,388030E+09	1,016034E+09	3,798647E+08
-1720	8,063793E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,062885E+06	3,798571E+08	1,016054E+09	1,388053E+09	1,388085E+09	1,016132E+09	3,799561E+08
-1719	8,067879E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069196E+06	3,799208E+08	1,016084E+09	1,388049E+09	1,388065E+09	1,016102E+09	3,798958E+08
-1718	8,067259E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063388E+06	3,799314E+08	1,016117E+09	1,388068E+09	1,388047E+09	1,016073E+09	3,799004E+08
-1717	8,063091E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065769E+06	3,798630E+08	1,016055E+09	1,388042E+09	1,388065E+09	1,016119E+09	3,799516E+08
-1716	8,069926E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068571E+06	3,799492E+08	1,016104E+09	1,388031E+09	1,388006E+09	1,016027E+09	3,798525E+08
-1715	8,064580E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063300E+06	3,798851E+08	1,016055E+09	1,388000E+09	1,387983E+09	1,016030E+09	3,798998E+08
-1714	8,065272E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067506E+06	3,798472E+08	1,015982E+09	1,387941E+09	1,387960E+09	1,016033E+09	3,799015E+08
-1713	8,070407E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068005E+06	3,799158E+08	1,016008E+09	1,387913E+09	1,387892E+09	1,015933E+09	3,798177E+08
-1712	8,063764E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065004E+06	3,798215E+08	1,015916E+09	1,387840E+09	1,387858E+09	1,015963E+09	3,798940E+08
-1711	8,069403E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069365E+06	3,798410E+08	1,015890E+09	1,387784E+09	1,387795E+09	1,015912E+09	3,798409E+08
-1710	8,069154E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067159E+06	3,798663E+08	1,015914E+09	1,387780E+09	1,387744E+09	1,015837E+09	3,798073E+08
-1709	8,065547E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065219E+06	3,797747E+08	1,015828E+09	1,387741E+09	1,387767E+09	1,015901E+09	3,798767E+08
-1708	8,071478E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070992E+06	3,798577E+08	1,015875E+09	1,387739E+09	1,387734E+09	1,015840E+09	3,797882E+08
-1707	8,066603E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065944E+06	3,798409E+08	1,015886E+09	1,387761E+09	1,387746E+09	1,015857E+09	3,798285E+08
-1706	8,066280E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067714E+06	3,797999E+08	1,015860E+09	1,387776E+09	1,387804E+09	1,015930E+09	3,798734E+08
-1705	8,070120E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071063E+06	3,799027E+08	1,015957E+09	1,387837E+09	1,387818E+09	1,015887E+09	3,798013E+08



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°
-1704	8,065460E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063447E+06	3,798359E+08	1,015946E+09	1,387872E+09	1,387875E+09	1,015970E+09	3,798917E+08
-1703	8,067276E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068424E+06	3,798387E+08	1,015945E+09	1,387887E+09	1,387908E+09	1,015999E+09	3,798849E+08
-1702	8,069974E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066022E+06	3,799058E+08	1,016018E+09	1,387939E+09	1,387919E+09	1,015963E+09	3,798406E+08
-1701	8,064397E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063765E+06	3,798292E+08	1,015967E+09	1,387931E+09	1,387967E+09	1,016052E+09	3,799288E+08
-1700	8,068528E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070459E+06	3,799039E+08	1,016015E+09	1,387932E+09	1,387938E+09	1,016009E+09	3,798603E+08
-1699	8,067382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064538E+06	3,799117E+08	1,016050E+09	1,387962E+09	1,387926E+09	1,015978E+09	3,798638E+08
-1698	8,063386E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066307E+06	3,798313E+08	1,015974E+09	1,387935E+09	1,387951E+09	1,016028E+09	3,799172E+08
-1697	8,070604E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069211E+06	3,799136E+08	1,016013E+09	1,387925E+09	1,387908E+09	1,015949E+09	3,798223E+08
-1696	8,065471E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064131E+06	3,798528E+08	1,015963E+09	1,387881E+09	1,387872E+09	1,015953E+09	3,798717E+08
-1695	8,066204E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067891E+06	3,798094E+08	1,015879E+09	1,387799E+09	1,387826E+09	1,015945E+09	3,798735E+08
-1694	8,071457E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068673E+06	3,798819E+08	1,015914E+09	1,387775E+09	1,387749E+09	1,015838E+09	3,797867E+08
-1693	8,064515E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065764E+06	3,797891E+08	1,015825E+09	1,387711E+09	1,387723E+09	1,015864E+09	3,798605E+08
-1692	8,070317E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070145E+06	3,798116E+08	1,015806E+09	1,387661E+09	1,387666E+09	1,015811E+09	3,798012E+08
-1691	8,069451E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068120E+06	3,798365E+08	1,015828E+09	1,387664E+09	1,387626E+09	1,015746E+09	3,797686E+08
-1690	8,065749E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066016E+06	3,797441E+08	1,015740E+09	1,387625E+09	1,387654E+09	1,015818E+09	3,798429E+08
-1689	8,071513E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072251E+06	3,798338E+08	1,015798E+09	1,387638E+09	1,387639E+09	1,015772E+09	3,797644E+08
-1688	8,067292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066633E+06	3,798212E+08	1,015825E+09	1,387669E+09	1,387651E+09	1,015791E+09	3,798086E+08
-1687	8,067111E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067348E+06	3,797662E+08	1,015786E+09	1,387678E+09	1,387704E+09	1,015860E+09	3,798556E+08
-1686	8,071534E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070513E+06	3,798661E+08	1,015880E+09	1,387741E+09	1,387720E+09	1,015820E+09	3,797813E+08
-1685	8,066562E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,063604E+06	3,798024E+08	1,015864E+09	1,387771E+09	1,387780E+09	1,015901E+09	3,798675E+08
-1684	8,068026E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069483E+06	3,798171E+08	1,015870E+09	1,387779E+09	1,387802E+09	1,015922E+09	3,798529E+08
-1683	8,069975E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067496E+06	3,798903E+08	1,015951E+09	1,387834E+09	1,387808E+09	1,015882E+09	3,798070E+08
-1682	8,064138E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065077E+06	3,798113E+08	1,015903E+09	1,387831E+09	1,387855E+09	1,015966E+09	3,798953E+08
-1681	8,068508E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071322E+06	3,798803E+08	1,015949E+09	1,387845E+09	1,387844E+09	1,015932E+09	3,798328E+08
-1680	8,068129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064860E+06	3,798823E+08	1,015977E+09	1,387866E+09	1,387829E+09	1,015902E+09	3,798364E+08
-1679	8,064362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065982E+06	3,797869E+08	1,015874E+09	1,387811E+09	1,387836E+09	1,015947E+09	3,798905E+08
-1678	8,071854E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069420E+06	3,798722E+08	1,015907E+09	1,387787E+09	1,387777E+09	1,015866E+09	3,797936E+08
-1677	8,066191E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065311E+06	3,798197E+08	1,015860E+09	1,387739E+09	1,387735E+09	1,015859E+09	3,798407E+08
-1676	8,067128E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069133E+06	3,797841E+08	1,015790E+09	1,387660E+09	1,387679E+09	1,015839E+09	3,798354E+08
-1675	8,071761E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069774E+06	3,798519E+08	1,015827E+09	1,387648E+09	1,387609E+09	1,015731E+09	3,797478E+08
-1674	8,065084E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066254E+06	3,797535E+08	1,015732E+09	1,387588E+09	1,387594E+09	1,015763E+09	3,798224E+08
-1673	8,070877E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070901E+06	3,797764E+08	1,015714E+09	1,387551E+09	1,387560E+09	1,015728E+09	3,797703E+08
-1672	8,070212E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068983E+06	3,798093E+08	1,015746E+09	1,387554E+09	1,387521E+09	1,015671E+09	3,797420E+08
-1671	8,066592E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066250E+06	3,797128E+08	1,015656E+09	1,387510E+09	1,387543E+09	1,015743E+09	3,798199E+08
-1670	8,072430E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072579E+06	3,798050E+08	1,015725E+09	1,387534E+09	1,387530E+09	1,015701E+09	3,797437E+08
-1669	8,068267E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066863E+06	3,797917E+08	1,015753E+09	1,387577E+09	1,387556E+09	1,015719E+09	3,797856E+08

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	8,068051E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067724E+06	3,797388E+08	1,015713E+09	1,387580E+09	1,387606E+09	1,015783E+09	3,798251E+08
-1667	8,071793E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071195E+06	3,798377E+08	1,015802E+09	1,387640E+09	1,387622E+09	1,015745E+09	3,797491E+08
-1666	8,066557E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064657E+06	3,797781E+08	1,015783E+09	1,387661E+09	1,387675E+09	1,015825E+09	3,798355E+08
-1665	8,067726E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070935E+06	3,797984E+08	1,015800E+09	1,387681E+09	1,387705E+09	1,015851E+09	3,798284E+08
-1664	8,070451E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068424E+06	3,798732E+08	1,015892E+09	1,387741E+09	1,387706E+09	1,015809E+09	3,797841E+08
-1663	8,064933E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064884E+06	3,797774E+08	1,015828E+09	1,387729E+09	1,387747E+09	1,015886E+09	3,798713E+08
-1662	8,069794E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070964E+06	3,798422E+08	1,015866E+09	1,387739E+09	1,387735E+09	1,015854E+09	3,798082E+08
-1661	8,069269E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065334E+06	3,798461E+08	1,015885E+09	1,387752E+09	1,387720E+09	1,015821E+09	3,798068E+08
-1660	8,065228E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067110E+06	3,797600E+08	1,015783E+09	1,387681E+09	1,387709E+09	1,015856E+09	3,798545E+08
-1659	8,072041E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070943E+06	3,798475E+08	1,015820E+09	1,387658E+09	1,387644E+09	1,015769E+09	3,797567E+08
-1658	8,066321E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066675E+06	3,797920E+08	1,015772E+09	1,387611E+09	1,387598E+09	1,015756E+09	3,798027E+08
-1657	8,067530E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069887E+06	3,797506E+08	1,015701E+09	1,387547E+09	1,387561E+09	1,015746E+09	3,798043E+08
-1656	8,072737E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070183E+06	3,798154E+08	1,015736E+09	1,387531E+09	1,387492E+09	1,015642E+09	3,797173E+08
-1655	8,066238E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065860E+06	3,797069E+08	1,015625E+09	1,387455E+09	1,387469E+09	1,015675E+09	3,797921E+08
-1654	8,071943E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071191E+06	3,797388E+08	1,015615E+09	1,387417E+09	1,387433E+09	1,015645E+09	3,797433E+08
-1653	8,070989E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069943E+06	3,797813E+08	1,015660E+09	1,387432E+09	1,387403E+09	1,015589E+09	3,797148E+08
-1652	8,067515E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067302E+06	3,796923E+08	1,015585E+09	1,387399E+09	1,387424E+09	1,015655E+09	3,797878E+08
-1651	8,072681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073528E+06	3,797799E+08	1,015656E+09	1,387438E+09	1,387425E+09	1,015617E+09	3,797128E+08
-1650	8,068722E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067440E+06	3,797629E+08	1,015676E+09	1,387481E+09	1,387459E+09	1,015641E+09	3,797540E+08
-1649	8,068149E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068643E+06	3,797124E+08	1,015639E+09	1,387492E+09	1,387523E+09	1,015720E+09	3,798005E+08
-1648	8,072159E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072134E+06	3,798180E+08	1,015735E+09	1,387545E+09	1,387532E+09	1,015683E+09	3,797260E+08
-1647	8,066978E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,064979E+06	3,797537E+08	1,015713E+09	1,387558E+09	1,387571E+09	1,015753E+09	3,798128E+08
-1646	8,068380E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071267E+06	3,797743E+08	1,015736E+09	1,387583E+09	1,387599E+09	1,015778E+09	3,798073E+08
-1645	8,071466E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068611E+06	3,798443E+08	1,015822E+09	1,387649E+09	1,387610E+09	1,015733E+09	3,797602E+08
-1644	8,066108E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065301E+06	3,797470E+08	1,015748E+09	1,387624E+09	1,387641E+09	1,015802E+09	3,798383E+08
-1643	8,070329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071570E+06	3,798074E+08	1,015774E+09	1,387622E+09	1,387622E+09	1,015768E+09	3,797740E+08
-1642	8,069591E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066528E+06	3,798141E+08	1,015786E+09	1,387621E+09	1,387596E+09	1,015732E+09	3,797710E+08
-1641	8,065341E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068447E+06	3,797328E+08	1,015692E+09	1,387557E+09	1,387585E+09	1,015768E+09	3,798250E+08
-1640	8,072793E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071764E+06	3,798177E+08	1,015735E+09	1,387534E+09	1,387515E+09	1,015676E+09	3,797276E+08
-1639	8,067430E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066530E+06	3,797486E+08	1,015670E+09	1,387478E+09	1,387464E+09	1,015657E+09	3,797722E+08
-1638	8,069077E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069713E+06	3,797070E+08	1,015597E+09	1,387411E+09	1,387428E+09	1,015651E+09	3,797738E+08
-1637	8,073955E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070878E+06	3,797773E+08	1,015634E+09	1,387399E+09	1,387368E+09	1,015551E+09	3,796847E+08
-1636	8,067256E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067145E+06	3,796820E+08	1,015536E+09	1,387323E+09	1,387338E+09	1,015579E+09	3,797530E+08
-1635	8,071925E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072800E+06	3,797183E+08	1,015541E+09	1,387303E+09	1,387311E+09	1,015552E+09	3,797071E+08
-1634	8,070976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071269E+06	3,797595E+08	1,015589E+09	1,387330E+09	1,387293E+09	1,015503E+09	3,796803E+08
-1633	8,067647E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068101E+06	3,796673E+08	1,015517E+09	1,387316E+09	1,387337E+09	1,015584E+09	3,797621E+08

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	8,073243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073909E+06	3,797499E+08	1,015583E+09	1,387348E+09	1,387340E+09	1,015553E+09	3,796899E+08
-1631	8,069585E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067107E+06	3,797244E+08	1,015586E+09	1,387370E+09	1,387362E+09	1,015575E+09	3,797313E+08
-1630	8,068901E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069003E+06	3,796837E+08	1,015556E+09	1,387375E+09	1,387416E+09	1,015654E+09	3,797808E+08
-1629	8,072967E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072786E+06	3,797949E+08	1,015664E+09	1,387441E+09	1,387427E+09	1,015611E+09	3,797051E+08
-1628	8,067999E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,065634E+06	3,797340E+08	1,015650E+09	1,387458E+09	1,387460E+09	1,015669E+09	3,797829E+08
-1627	8,068891E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071802E+06	3,797481E+08	1,015669E+09	1,387492E+09	1,387499E+09	1,015693E+09	3,797761E+08
-1626	8,072123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069163E+06	3,798133E+08	1,015741E+09	1,387549E+09	1,387512E+09	1,015653E+09	3,797261E+08
-1625	8,066353E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066357E+06	3,797190E+08	1,015666E+09	1,387525E+09	1,387546E+09	1,015730E+09	3,798100E+08
-1624	8,070872E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072637E+06	3,797822E+08	1,015693E+09	1,387509E+09	1,387514E+09	1,015693E+09	3,797469E+08
-1623	8,070174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067085E+06	3,797805E+08	1,015694E+09	1,387492E+09	1,387469E+09	1,015644E+09	3,797427E+08
-1622	8,066274E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068838E+06	3,796999E+08	1,015601E+09	1,387425E+09	1,387452E+09	1,015676E+09	3,797972E+08
-1621	8,074030E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072019E+06	3,797785E+08	1,015637E+09	1,387406E+09	1,387388E+09	1,015580E+09	3,796958E+08
-1620	8,068690E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067183E+06	3,797122E+08	1,015569E+09	1,387339E+09	1,387325E+09	1,015551E+09	3,797298E+08
-1619	8,069575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070710E+06	3,796726E+08	1,015497E+09	1,387276E+09	1,387293E+09	1,015547E+09	3,797311E+08
-1618	8,073968E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072514E+06	3,797495E+08	1,015538E+09	1,387265E+09	1,387236E+09	1,015454E+09	3,796453E+08
-1617	8,067303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068647E+06	3,796608E+08	1,015461E+09	1,387215E+09	1,387223E+09	1,015495E+09	3,797234E+08
-1616	8,072460E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073622E+06	3,796932E+08	1,015472E+09	1,387204E+09	1,387206E+09	1,015474E+09	3,796823E+08
-1615	8,071989E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070906E+06	3,797197E+08	1,015502E+09	1,387224E+09	1,387191E+09	1,015429E+09	3,796575E+08
-1614	8,069040E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067856E+06	3,796304E+08	1,015428E+09	1,387203E+09	1,387236E+09	1,015517E+09	3,797409E+08
-1613	8,074322E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074138E+06	3,797156E+08	1,015495E+09	1,387237E+09	1,387242E+09	1,015486E+09	3,796680E+08
-1612	8,070640E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067975E+06	3,797033E+08	1,015510E+09	1,387256E+09	1,387248E+09	1,015496E+09	3,797009E+08
-1611	8,069068E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070172E+06	3,796658E+08	1,015494E+09	1,387278E+09	1,387307E+09	1,015568E+09	3,797496E+08
-1610	8,073172E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073687E+06	3,797745E+08	1,015602E+09	1,387351E+09	1,387329E+09	1,015532E+09	3,796752E+08
-1609	8,068360E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066343E+06	3,797115E+08	1,015591E+09	1,387384E+09	1,387379E+09	1,015601E+09	3,797560E+08
-1608	8,069424E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072199E+06	3,797190E+08	1,015598E+09	1,387403E+09	1,387414E+09	1,015628E+09	3,797501E+08
-1607	8,072789E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069112E+06	3,797748E+08	1,015646E+09	1,387431E+09	1,387409E+09	1,015583E+09	3,797001E+08
-1606	8,066991E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067067E+06	3,796892E+08	1,015572E+09	1,387390E+09	1,387424E+09	1,015654E+09	3,797857E+08
-1605	8,071828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073263E+06	3,797509E+08	1,015603E+09	1,387379E+09	1,387386E+09	1,015606E+09	3,797210E+08
-1604	8,071366E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067993E+06	3,797506E+08	1,015604E+09	1,387357E+09	1,387326E+09	1,015539E+09	3,797059E+08
-1603	8,067105E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069485E+06	3,796658E+08	1,015511E+09	1,387299E+09	1,387315E+09	1,015565E+09	3,797561E+08
-1602	8,074654E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072951E+06	3,797431E+08	1,015538E+09	1,387276E+09	1,387258E+09	1,015479E+09	3,796542E+08
-1601	8,068918E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068582E+06	3,796854E+08	1,015483E+09	1,387223E+09	1,387208E+09	1,015461E+09	3,796926E+08
-1600	8,069902E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071962E+06	3,796496E+08	1,015419E+09	1,387162E+09	1,387179E+09	1,015463E+09	3,796990E+08
-1599	8,074336E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073071E+06	3,797170E+08	1,015453E+09	1,387147E+09	1,387119E+09	1,015373E+09	3,796184E+08
-1598	8,068361E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068873E+06	3,796288E+08	1,015378E+09	1,387100E+09	1,387112E+09	1,015419E+09	3,797013E+08
-1597	8,073851E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073436E+06	3,796525E+08	1,015382E+09	1,387096E+09	1,387104E+09	1,015400E+09	3,796603E+08

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												
-1596	8,073474E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071068E+06	3,796810E+08	1,015404E+09	1,387098E+09	1,387074E+09	1,015345E+09	3,796261E+08
-1595	8,069723E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068501E+06	3,795992E+08	1,015338E+09	1,387081E+09	1,387117E+09	1,015430E+09	3,797069E+08
-1594	8,074304E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075410E+06	3,796928E+08	1,015413E+09	1,387118E+09	1,387125E+09	1,015405E+09	3,796356E+08
-1593	8,070643E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069268E+06	3,796901E+08	1,015456E+09	1,387169E+09	1,387148E+09	1,015421E+09	3,796734E+08
-1592	8,069364E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071056E+06	3,796488E+08	1,015444E+09	1,387202E+09	1,387220E+09	1,015498E+09	3,797244E+08
-1591	8,073825E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073405E+06	3,797414E+08	1,015530E+09	1,387263E+09	1,387243E+09	1,015467E+09	3,796532E+08
-1590	8,069438E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,066506E+06	3,796808E+08	1,015511E+09	1,387281E+09	1,387289E+09	1,015540E+09	3,797347E+08
-1589	8,070363E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072515E+06	3,796866E+08	1,015513E+09	1,387293E+09	1,387316E+09	1,015563E+09	3,797276E+08
-1588	8,073673E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070079E+06	3,797493E+08	1,015561E+09	1,387304E+09	1,387283E+09	1,015497E+09	3,796677E+08
-1587	8,067268E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068265E+06	3,796660E+08	1,015494E+09	1,387270E+09	1,387292E+09	1,015553E+09	3,797494E+08
-1586	8,072179E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074106E+06	3,797211E+08	1,015517E+09	1,387259E+09	1,387259E+09	1,015507E+09	3,796843E+08
-1585	8,071825E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068909E+06	3,797207E+08	1,015523E+09	1,387249E+09	1,387209E+09	1,015446E+09	3,796703E+08
-1584	8,067862E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070075E+06	3,796313E+08	1,015421E+09	1,387182E+09	1,387199E+09	1,015476E+09	3,797197E+08
-1583	8,075207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073193E+06	3,797012E+08	1,015432E+09	1,387139E+09	1,387132E+09	1,015392E+09	3,796233E+08
-1582	8,069735E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069363E+06	3,796535E+08	1,015385E+09	1,387083E+09	1,387078E+09	1,015377E+09	3,796655E+08
-1581	8,071129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072217E+06	3,796137E+08	1,015327E+09	1,387035E+09	1,387054E+09	1,015378E+09	3,796744E+08
-1580	8,075748E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073587E+06	3,796803E+08	1,015358E+09	1,387017E+09	1,386986E+09	1,015277E+09	3,795872E+08
-1579	8,069587E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069225E+06	3,795920E+08	1,015283E+09	1,386977E+09	1,386986E+09	1,015321E+09	3,796659E+08
-1578	8,074485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074174E+06	3,796166E+08	1,015284E+09	1,386970E+09	1,386986E+09	1,015314E+09	3,796255E+08
-1577	8,073678E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072525E+06	3,796605E+08	1,015331E+09	1,386993E+09	1,386966E+09	1,015267E+09	3,795940E+08
-1576	8,069721E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069860E+06	3,795854E+08	1,015280E+09	1,386986E+09	1,387016E+09	1,015355E+09	3,796767E+08
-1575	8,074165E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075912E+06	3,796705E+08	1,015352E+09	1,387027E+09	1,387028E+09	1,015335E+09	3,796132E+08
-1574	8,071394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069502E+06	3,796682E+08	1,015395E+09	1,387083E+09	1,387063E+09	1,015359E+09	3,796539E+08
-1573	8,070463E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070862E+06	3,796162E+08	1,015375E+09	1,387119E+09	1,387141E+09	1,015439E+09	3,797051E+08
-1572	8,074998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073524E+06	3,797067E+08	1,015443E+09	1,387154E+09	1,387141E+09	1,015396E+09	3,796260E+08
-1571	8,070037E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,067299E+06	3,796520E+08	1,015425E+09	1,387164E+09	1,387174E+09	1,015457E+09	3,797028E+08
-1570	8,070409E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073553E+06	3,796599E+08	1,015426E+09	1,387169E+09	1,387194E+09	1,015479E+09	3,796966E+08
-1569	8,073905E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071298E+06	3,797287E+08	1,015494E+09	1,387199E+09	1,387163E+09	1,015409E+09	3,796371E+08
-1568	8,067779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069083E+06	3,796407E+08	1,015424E+09	1,387168E+09	1,387177E+09	1,015462E+09	3,797164E+08
-1567	8,072949E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073895E+06	3,796801E+08	1,015423E+09	1,387140E+09	1,387142E+09	1,015420E+09	3,796545E+08
-1566	8,072880E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069377E+06	3,796848E+08	1,015424E+09	1,387119E+09	1,387091E+09	1,015364E+09	3,796408E+08
-1565	8,069100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070505E+06	3,795949E+08	1,015324E+09	1,387053E+09	1,387078E+09	1,015393E+09	3,796902E+08
-1564	8,076114E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074163E+06	3,796682E+08	1,015334E+09	1,386997E+09	1,386990E+09	1,015294E+09	3,795897E+08
-1563	8,070473E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070392E+06	3,796232E+08	1,015297E+09	1,386956E+09	1,386939E+09	1,015272E+09	3,796288E+08
-1562	8,071755E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072916E+06	3,795786E+08	1,015233E+09	1,386910E+09	1,386928E+09	1,015283E+09	3,796387E+08
-1561	8,076197E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074614E+06	3,796490E+08	1,015274E+09	1,386905E+09	1,386870E+09	1,015189E+09	3,795528E+08



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												
-1560	8,070104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070107E+06	3,795629E+08	1,015198E+09	1,386863E+09	1,386874E+09	1,015237E+09	3,796308E+08
-1559	8,074508E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074680E+06	3,795833E+08	1,015190E+09	1,386845E+09	1,386869E+09	1,015236E+09	3,795981E+08
-1558	8,074112E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073418E+06	3,796391E+08	1,015254E+09	1,386876E+09	1,386855E+09	1,015196E+09	3,795721E+08
-1557	8,070769E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070048E+06	3,795598E+08	1,015217E+09	1,386895E+09	1,386919E+09	1,015285E+09	3,796564E+08
-1556	8,075243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076061E+06	3,796404E+08	1,015281E+09	1,386932E+09	1,386926E+09	1,015259E+09	3,795900E+08
-1555	8,072648E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069601E+06	3,796377E+08	1,015323E+09	1,386993E+09	1,386968E+09	1,015281E+09	3,796250E+08
-1554	8,070937E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071416E+06	3,795854E+08	1,015293E+09	1,387017E+09	1,387047E+09	1,015371E+09	3,796761E+08
-1553	8,075146E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074741E+06	3,796872E+08	1,015378E+09	1,387058E+09	1,387042E+09	1,015326E+09	3,795977E+08
-1552	8,070074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068695E+06	3,796358E+08	1,015363E+09	1,387067E+09	1,387069E+09	1,015378E+09	3,796722E+08
-1551	8,070419E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073886E+06	3,796304E+08	1,015349E+09	1,387062E+09	1,387083E+09	1,015400E+09	3,796721E+08
-1550	8,074815E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071656E+06	3,796981E+08	1,015410E+09	1,387087E+09	1,387055E+09	1,015331E+09	3,796129E+08
-1549	8,069201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068897E+06	3,795995E+08	1,015332E+09	1,387053E+09	1,387067E+09	1,015380E+09	3,796877E+08
-1548	8,074160E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074110E+06	3,796377E+08	1,015314E+09	1,386999E+09	1,387007E+09	1,015324E+09	3,796204E+08
-1547	8,073643E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070422E+06	3,796509E+08	1,015322E+09	1,386976E+09	1,386947E+09	1,015257E+09	3,796009E+08
-1546	8,069379E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071683E+06	3,795644E+08	1,015226E+09	1,386912E+09	1,386936E+09	1,015293E+09	3,796534E+08
-1545	8,076426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075677E+06	3,796440E+08	1,015258E+09	1,386880E+09	1,386857E+09	1,015196E+09	3,795557E+08
-1544	8,071089E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071472E+06	3,795944E+08	1,015216E+09	1,386844E+09	1,386819E+09	1,015177E+09	3,795936E+08
-1543	8,072459E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072954E+06	3,795370E+08	1,015133E+09	1,386786E+09	1,386810E+09	1,015198E+09	3,796092E+08
-1542	8,077001E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075339E+06	3,796152E+08	1,015175E+09	1,386776E+09	1,386757E+09	1,015112E+09	3,795262E+08
-1541	8,071201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070484E+06	3,795328E+08	1,015114E+09	1,386747E+09	1,386762E+09	1,015159E+09	3,796037E+08
-1540	8,075123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075421E+06	3,795565E+08	1,015112E+09	1,386728E+09	1,386746E+09	1,015149E+09	3,795712E+08
-1539	8,074912E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074046E+06	3,796158E+08	1,015189E+09	1,386782E+09	1,386746E+09	1,015108E+09	3,795425E+08
-1538	8,071394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070434E+06	3,795317E+08	1,015147E+09	1,386807E+09	1,386828E+09	1,015213E+09	3,796288E+08
-1537	8,075688E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076836E+06	3,796157E+08	1,015219E+09	1,386851E+09	1,386842E+09	1,015192E+09	3,795634E+08
-1536	8,073078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070448E+06	3,796134E+08	1,015253E+09	1,386903E+09	1,386882E+09	1,015215E+09	3,795952E+08
-1535	8,070720E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071895E+06	3,795560E+08	1,015208E+09	1,386904E+09	1,386945E+09	1,015303E+09	3,796525E+08
-1534	8,075443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075464E+06	3,796634E+08	1,015298E+09	1,386944E+09	1,386937E+09	1,015257E+09	3,795776E+08
-1533	8,071193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,068903E+06	3,796067E+08	1,015290E+09	1,386965E+09	1,386961E+09	1,015300E+09	3,796491E+08
-1532	8,071608E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073933E+06	3,795932E+08	1,015258E+09	1,386942E+09	1,386957E+09	1,015306E+09	3,796444E+08
-1531	8,076234E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072056E+06	3,796622E+08	1,015318E+09	1,386965E+09	1,386929E+09	1,015232E+09	3,795773E+08
-1530	8,069857E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069852E+06	3,795661E+08	1,015234E+09	1,386924E+09	1,386943E+09	1,015288E+09	3,796492E+08
-1529	8,074262E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075710E+06	3,796163E+08	1,015238E+09	1,386880E+09	1,386880E+09	1,015231E+09	3,795834E+08
-1528	8,073635E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072171E+06	3,796305E+08	1,015248E+09	1,386864E+09	1,386824E+09	1,015162E+09	3,795627E+08
-1527	8,069508E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072153E+06	3,795305E+08	1,015137E+09	1,386791E+09	1,386813E+09	1,015202E+09	3,796237E+08
-1526	8,077291E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076166E+06	3,796068E+08	1,015160E+09	1,386757E+09	1,386743E+09	1,015112E+09	3,795305E+08
-1525	8,072770E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071385E+06	3,795500E+08	1,015113E+09	1,386719E+09	1,386703E+09	1,015092E+09	3,795654E+08

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°
-1524	8,073777E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073136E+06	3,794929E+08	1,015018E+09	1,386637E+09	1,386671E+09	1,015103E+09	3,795783E+08
-1523	8,077915E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076181E+06	3,795825E+08	1,015078E+09	1,386638E+09	1,386618E+09	1,015012E+09	3,794917E+08
-1522	8,071715E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071315E+06	3,795065E+08	1,015032E+09	1,386626E+09	1,386638E+09	1,015070E+09	3,795702E+08
-1521	8,075371E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076650E+06	3,795386E+08	1,015057E+09	1,386639E+09	1,386640E+09	1,015065E+09	3,795415E+08
-1520	8,075458E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074909E+06	3,795943E+08	1,015130E+09	1,386704E+09	1,386660E+09	1,015033E+09	3,795116E+08
-1519	8,071758E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070618E+06	3,795004E+08	1,015070E+09	1,386715E+09	1,386745E+09	1,015151E+09	3,796050E+08
-1518	8,076108E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077654E+06	3,795901E+08	1,015139E+09	1,386750E+09	1,386759E+09	1,015138E+09	3,795448E+08
-1517	8,074015E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070825E+06	3,795874E+08	1,015180E+09	1,386803E+09	1,386788E+09	1,015152E+09	3,795739E+08
-1516	8,071238E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072393E+06	3,795283E+08	1,015128E+09	1,386790E+09	1,386828E+09	1,015223E+09	3,796293E+08
-1515	8,076427E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075834E+06	3,796353E+08	1,015224E+09	1,386838E+09	1,386819E+09	1,015165E+09	3,795477E+08
-1514	8,071906E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069317E+06	3,795751E+08	1,015208E+09	1,386857E+09	1,386852E+09	1,015214E+09	3,796154E+08
-1513	8,072134E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074919E+06	3,795673E+08	1,015185E+09	1,386837E+09	1,386846E+09	1,015217E+09	3,796089E+08
-1512	8,076566E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073387E+06	3,796363E+08	1,015235E+09	1,386852E+09	1,386816E+09	1,015144E+09	3,795388E+08
-1511	8,069738E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070740E+06	3,795354E+08	1,015141E+09	1,386794E+09	1,386819E+09	1,015202E+09	3,796179E+08
-1510	8,074713E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076644E+06	3,795873E+08	1,015147E+09	1,386753E+09	1,386760E+09	1,015147E+09	3,795588E+08
-1509	8,075060E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072437E+06	3,795927E+08	1,015158E+09	1,386746E+09	1,386704E+09	1,015073E+09	3,795358E+08
-1508	8,071056E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072038E+06	3,794847E+08	1,015026E+09	1,386651E+09	1,386676E+09	1,015103E+09	3,795943E+08
-1507	8,078898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076489E+06	3,795631E+08	1,015050E+09	1,386616E+09	1,386604E+09	1,015009E+09	3,794938E+08
-1506	8,073575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072333E+06	3,795150E+08	1,015008E+09	1,386577E+09	1,386568E+09	1,014996E+09	3,795262E+08
-1505	8,073992E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074831E+06	3,794747E+08	1,014944E+09	1,386516E+09	1,386540E+09	1,015005E+09	3,795401E+08
-1504	8,077795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077917E+06	3,795667E+08	1,015015E+09	1,386538E+09	1,386505E+09	1,014922E+09	3,794550E+08
-1503	8,071769E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071853E+06	3,794812E+08	1,014963E+09	1,386532E+09	1,386540E+09	1,014994E+09	3,795421E+08
-1502	8,075778E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077163E+06	3,795102E+08	1,014982E+09	1,386550E+09	1,386561E+09	1,015004E+09	3,795221E+08
-1501	8,076852E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074710E+06	3,795588E+08	1,015051E+09	1,386612E+09	1,386581E+09	1,014976E+09	3,794905E+08
-1500	8,072649E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070734E+06	3,794642E+08	1,014974E+09	1,386593E+09	1,386635E+09	1,015079E+09	3,795826E+08
-1499	8,076878E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078143E+06	3,795608E+08	1,015055E+09	1,386630E+09	1,386639E+09	1,015056E+09	3,795186E+08
-1498	8,074586E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071504E+06	3,795627E+08	1,015104E+09	1,386690E+09	1,386673E+09	1,015071E+09	3,795455E+08
-1497	8,071656E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073477E+06	3,795104E+08	1,015071E+09	1,386695E+09	1,386716E+09	1,015135E+09	3,795988E+08
-1496	8,077084E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076687E+06	3,796117E+08	1,015157E+09	1,386747E+09	1,386721E+09	1,015082E+09	3,795139E+08
-1495	8,072292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,069782E+06	3,795437E+08	1,015123E+09	1,386749E+09	1,386750E+09	1,015137E+09	3,795837E+08
-1494	8,072505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075891E+06	3,795400E+08	1,015098E+09	1,386724E+09	1,386746E+09	1,015145E+09	3,795828E+08
-1493	8,077547E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073980E+06	3,796066E+08	1,015153E+09	1,386738E+09	1,386705E+09	1,015066E+09	3,795112E+08
-1492	8,070520E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071207E+06	3,795000E+08	1,015045E+09	1,386662E+09	1,386685E+09	1,015108E+09	3,795902E+08
-1491	8,076132E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076854E+06	3,795478E+08	1,015049E+09	1,386623E+09	1,386623E+09	1,015046E+09	3,795267E+08
-1490	8,076208E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072993E+06	3,795505E+08	1,015050E+09	1,386608E+09	1,386574E+09	1,014977E+09	3,794989E+08
-1489	8,071920E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073185E+06	3,794536E+08	1,014930E+09	1,386514E+09	1,386538E+09	1,015000E+09	3,795531E+08

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												
-1488	8,079099E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078081E+06	3,795350E+08	1,014954E+09	1,386480E+09	1,386470E+09	1,014908E+09	3,794502E+08
-1487	8,073298E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073459E+06	3,794882E+08	1,014917E+09	1,386443E+09	1,386435E+09	1,014902E+09	3,794903E+08
-1486	8,074154E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075928E+06	3,794516E+08	1,014868E+09	1,386407E+09	1,386429E+09	1,014923E+09	3,795146E+08
-1485	8,078964E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078060E+06	3,795349E+08	1,014943E+09	1,386445E+09	1,386408E+09	1,014849E+09	3,794328E+08
-1484	8,073239E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071552E+06	3,794421E+08	1,014873E+09	1,386423E+09	1,386437E+09	1,014920E+09	3,795207E+08
-1483	8,077226E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077275E+06	3,794738E+08	1,014895E+09	1,386440E+09	1,386457E+09	1,014930E+09	3,794962E+08
-1482	8,077571E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075306E+06	3,795294E+08	1,014965E+09	1,386499E+09	1,386478E+09	1,014908E+09	3,794621E+08
-1481	8,072802E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072216E+06	3,794521E+08	1,014915E+09	1,386491E+09	1,386525E+09	1,014999E+09	3,795515E+08
-1480	8,076717E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079385E+06	3,795449E+08	1,014997E+09	1,386541E+09	1,386539E+09	1,014976E+09	3,794862E+08
-1479	8,074635E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071938E+06	3,795386E+08	1,015037E+09	1,386598E+09	1,386576E+09	1,014997E+09	3,795177E+08
-1478	8,072119E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074098E+06	3,794829E+08	1,014998E+09	1,386605E+09	1,386632E+09	1,015067E+09	3,795756E+08
-1477	8,078380E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076707E+06	3,795772E+08	1,015075E+09	1,386646E+09	1,386629E+09	1,015015E+09	3,794892E+08
-1476	8,073133E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,070108E+06	3,795073E+08	1,015023E+09	1,386617E+09	1,386629E+09	1,015055E+09	3,795565E+08
-1475	8,073444E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076372E+06	3,795074E+08	1,015006E+09	1,386591E+09	1,386611E+09	1,015053E+09	3,795515E+08
-1474	8,078207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074742E+06	3,795737E+08	1,015061E+09	1,386609E+09	1,386574E+09	1,014973E+09	3,794778E+08
-1473	8,071247E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072469E+06	3,794750E+08	1,014964E+09	1,386538E+09	1,386549E+09	1,015003E+09	3,795524E+08
-1472	8,076883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077894E+06	3,795149E+08	1,014956E+09	1,386499E+09	1,386497E+09	1,014946E+09	3,794855E+08
-1471	8,076491E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074067E+06	3,795158E+08	1,014946E+09	1,386469E+09	1,386442E+09	1,014882E+09	3,794607E+08
-1470	8,072210E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074425E+06	3,794252E+08	1,014834E+09	1,386383E+09	1,386415E+09	1,014910E+09	3,795208E+08
-1469	8,079887E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078769E+06	3,795053E+08	1,014872E+09	1,386362E+09	1,386349E+09	1,014822E+09	3,794211E+08
-1468	8,074130E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073661E+06	3,794536E+08	1,014828E+09	1,386320E+09	1,386307E+09	1,014810E+09	3,794627E+08
-1467	8,075562E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075797E+06	3,794146E+08	1,014784E+09	1,386297E+09	1,386313E+09	1,014836E+09	3,794867E+08
-1466	8,080077E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078260E+06	3,794961E+08	1,014852E+09	1,386334E+09	1,386306E+09	1,014776E+09	3,794053E+08
-1465	8,074209E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072524E+06	3,794165E+08	1,014793E+09	1,386311E+09	1,386327E+09	1,014840E+09	3,794885E+08
-1464	8,077299E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078507E+06	3,794497E+08	1,014814E+09	1,386328E+09	1,386349E+09	1,014853E+09	3,794628E+08
-1463	8,077332E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076180E+06	3,795066E+08	1,014888E+09	1,386385E+09	1,386366E+09	1,014832E+09	3,794338E+08
-1462	8,072863E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073167E+06	3,794324E+08	1,014851E+09	1,386399E+09	1,386429E+09	1,014926E+09	3,795294E+08
-1461	8,077743E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079346E+06	3,795162E+08	1,014933E+09	1,386457E+09	1,386451E+09	1,014909E+09	3,794652E+08
-1460	8,075863E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071739E+06	3,795037E+08	1,014953E+09	1,386493E+09	1,386474E+09	1,014922E+09	3,794940E+08
-1459	8,073402E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074414E+06	3,794508E+08	1,014915E+09	1,386494E+09	1,386523E+09	1,014990E+09	3,795466E+08
-1458	8,078932E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077509E+06	3,795491E+08	1,014991E+09	1,386529E+09	1,386517E+09	1,014939E+09	3,794589E+08
-1457	8,073385E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,071860E+06	3,794928E+08	1,014957E+09	1,386504E+09	1,386504E+09	1,014962E+09	3,795201E+08
-1456	8,073463E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077568E+06	3,794840E+08	1,014932E+09	1,386484E+09	1,386494E+09	1,014959E+09	3,795137E+08
-1455	8,078294E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075397E+06	3,795399E+08	1,014971E+09	1,386488E+09	1,386454E+09	1,014883E+09	3,794442E+08
-1454	8,071849E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073280E+06	3,794398E+08	1,014867E+09	1,386418E+09	1,386435E+09	1,014916E+09	3,795225E+08
-1453	8,078216E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078057E+06	3,794729E+08	1,014851E+09	1,386365E+09	1,386372E+09	1,014859E+09	3,794548E+08

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												
-1452	8,077325E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074474E+06	3,794746E+08	1,014832E+09	1,386313E+09	1,386293E+09	1,014783E+09	3,794297E+08
-1451	8,073492E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074770E+06	3,793903E+08	1,014739E+09	1,386241E+09	1,386266E+09	1,014808E+09	3,794866E+08
-1450	8,080655E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079283E+06	3,794697E+08	1,014782E+09	1,386237E+09	1,386220E+09	1,014729E+09	3,793906E+08
-1449	8,075241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074655E+06	3,794283E+08	1,014752E+09	1,386210E+09	1,386187E+09	1,014715E+09	3,794276E+08
-1448	8,076307E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076622E+06	3,793837E+08	1,014701E+09	1,386192E+09	1,386210E+09	1,014752E+09	3,794501E+08
-1447	8,080121E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079286E+06	3,794667E+08	1,014763E+09	1,386218E+09	1,386200E+09	1,014703E+09	3,793745E+08
-1446	8,074264E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073872E+06	3,793966E+08	1,014718E+09	1,386208E+09	1,386229E+09	1,014770E+09	3,794635E+08
-1445	8,077691E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079109E+06	3,794263E+08	1,014749E+09	1,386233E+09	1,386251E+09	1,014785E+09	3,794406E+08
-1444	8,077914E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076213E+06	3,794772E+08	1,014814E+09	1,386282E+09	1,386259E+09	1,014756E+09	3,794128E+08
-1443	8,074106E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073034E+06	3,794019E+08	1,014781E+09	1,386304E+09	1,386327E+09	1,014850E+09	3,795034E+08
-1442	8,078541E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079469E+06	3,794825E+08	1,014854E+09	1,386358E+09	1,386356E+09	1,014840E+09	3,794398E+08
-1441	8,076673E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072949E+06	3,794836E+08	1,014881E+09	1,386386E+09	1,386365E+09	1,014840E+09	3,794593E+08
-1440	8,073307E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075754E+06	3,794296E+08	1,014839E+09	1,386385E+09	1,386413E+09	1,014907E+09	3,795104E+08
-1439	8,078606E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078505E+06	3,795249E+08	1,014912E+09	1,386412E+09	1,386398E+09	1,014857E+09	3,794290E+08
-1438	8,073615E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072884E+06	3,794657E+08	1,014880E+09	1,386400E+09	1,386394E+09	1,014878E+09	3,794951E+08
-1437	8,074861E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077356E+06	3,794439E+08	1,014843E+09	1,386372E+09	1,386384E+09	1,014878E+09	3,794891E+08
-1436	8,079743E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075270E+06	3,794926E+08	1,014857E+09	1,386347E+09	1,386322E+09	1,014790E+09	3,794163E+08
-1435	8,073444E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073526E+06	3,793991E+08	1,014760E+09	1,386271E+09	1,386291E+09	1,014816E+09	3,794867E+08
-1434	8,078988E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078793E+06	3,794374E+08	1,014750E+09	1,386222E+09	1,386231E+09	1,014761E+09	3,794199E+08
-1433	8,077868E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076170E+06	3,794540E+08	1,014752E+09	1,386182E+09	1,386148E+09	1,014672E+09	3,793878E+08
-1432	8,073845E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075870E+06	3,793637E+08	1,014660E+09	1,386129E+09	1,386143E+09	1,014707E+09	3,794451E+08
-1431	8,080693E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080149E+06	3,794366E+08	1,014694E+09	1,386122E+09	1,386106E+09	1,014643E+09	3,793580E+08
-1430	8,075806E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075647E+06	3,793961E+08	1,014665E+09	1,386105E+09	1,386089E+09	1,014639E+09	3,794000E+08
-1429	8,077244E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076994E+06	3,793487E+08	1,014610E+09	1,386079E+09	1,386108E+09	1,014683E+09	3,794245E+08
-1428	8,080521E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079686E+06	3,794323E+08	1,014666E+09	1,386086E+09	1,386077E+09	1,014624E+09	3,793511E+08
-1427	8,075252E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074093E+06	3,793696E+08	1,014642E+09	1,386091E+09	1,386104E+09	1,014686E+09	3,794371E+08
-1426	8,078283E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079376E+06	3,793968E+08	1,014677E+09	1,386133E+09	1,386144E+09	1,014707E+09	3,794178E+08
-1425	8,079017E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077098E+06	3,794578E+08	1,014752E+09	1,386190E+09	1,386156E+09	1,014672E+09	3,793823E+08
-1424	8,074740E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,073929E+06	3,793783E+08	1,014714E+09	1,386216E+09	1,386238E+09	1,014775E+09	3,794682E+08
-1423	8,078313E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080443E+06	3,794586E+08	1,014778E+09	1,386257E+09	1,386261E+09	1,014772E+09	3,794118E+08
-1422	8,076734E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074267E+06	3,794650E+08	1,014816E+09	1,386297E+09	1,386274E+09	1,014771E+09	3,794347E+08
-1421	8,073784E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076131E+06	3,794026E+08	1,014770E+09	1,386290E+09	1,386314E+09	1,014836E+09	3,794872E+08
-1420	8,079362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078230E+06	3,794854E+08	1,014821E+09	1,386295E+09	1,386281E+09	1,014774E+09	3,794073E+08
-1419	8,075243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,072789E+06	3,794253E+08	1,014784E+09	1,386275E+09	1,386269E+09	1,014789E+09	3,794661E+08
-1418	8,076114E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077444E+06	3,793992E+08	1,014733E+09	1,386235E+09	1,386255E+09	1,014789E+09	3,794587E+08
-1417	8,080793E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076778E+06	3,794634E+08	1,014755E+09	1,386199E+09	1,386173E+09	1,014682E+09	3,793741E+08



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	8,073667E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075009E+06	3,793718E+08	1,014665E+09	1,386131E+09	1,386146E+09	1,014705E+09	3,794391E+08
-1415	8,078585E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080064E+06	3,794099E+08	1,014661E+09	1,386088E+09	1,386089E+09	1,014657E+09	3,793816E+08
-1414	8,078048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077485E+06	3,794265E+08	1,014673E+09	1,386078E+09	1,386031E+09	1,014578E+09	3,793561E+08
-1413	8,075068E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076068E+06	3,793274E+08	1,014574E+09	1,386023E+09	1,386038E+09	1,014627E+09	3,794173E+08
-1412	8,081674E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080352E+06	3,793938E+08	1,014589E+09	1,385992E+09	1,385988E+09	1,014563E+09	3,793344E+08
-1411	8,077250E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076048E+06	3,793618E+08	1,014569E+09	1,385974E+09	1,385965E+09	1,014558E+09	3,793716E+08
-1410	8,077885E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077585E+06	3,793177E+08	1,014523E+09	1,385956E+09	1,385990E+09	1,014604E+09	3,793989E+08
-1409	8,081098E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080997E+06	3,794137E+08	1,014597E+09	1,385976E+09	1,385955E+09	1,014530E+09	3,793176E+08
-1408	8,075647E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074728E+06	3,793467E+08	1,014578E+09	1,386001E+09	1,386003E+09	1,014600E+09	3,794010E+08
-1407	8,078226E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079989E+06	3,793700E+08	1,014606E+09	1,386041E+09	1,386051E+09	1,014635E+09	3,793911E+08
-1406	8,079594E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077901E+06	3,794318E+08	1,014682E+09	1,386108E+09	1,386076E+09	1,014608E+09	3,793590E+08
-1405	8,075580E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074347E+06	3,793499E+08	1,014638E+09	1,386121E+09	1,386151E+09	1,014715E+09	3,794458E+08
-1404	8,078731E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080664E+06	3,794263E+08	1,014691E+09	1,386138E+09	1,386150E+09	1,014700E+09	3,793924E+08
-1403	8,077909E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074395E+06	3,794343E+08	1,014737E+09	1,386181E+09	1,386155E+09	1,014690E+09	3,794096E+08
-1402	8,074672E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076151E+06	3,793657E+08	1,014683E+09	1,386177E+09	1,386200E+09	1,014754E+09	3,794631E+08
-1401	8,080730E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079064E+06	3,794544E+08	1,014731E+09	1,386171E+09	1,386153E+09	1,014675E+09	3,793709E+08
-1400	8,075979E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074007E+06	3,793949E+08	1,014691E+09	1,386148E+09	1,386142E+09	1,014688E+09	3,794213E+08
-1399	8,075949E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078916E+06	3,793725E+08	1,014638E+09	1,386097E+09	1,386119E+09	1,014691E+09	3,794199E+08
-1398	8,080732E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078676E+06	3,794425E+08	1,014677E+09	1,386084E+09	1,386048E+09	1,014585E+09	3,793387E+08
-1397	8,074164E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075802E+06	3,793440E+08	1,014588E+09	1,386022E+09	1,386029E+09	1,014616E+09	3,794061E+08
-1396	8,079167E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080051E+06	3,793692E+08	1,014565E+09	1,385966E+09	1,385967E+09	1,014566E+09	3,793556E+08
-1395	8,079622E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077488E+06	3,793842E+08	1,014575E+09	1,385952E+09	1,385912E+09	1,014492E+09	3,793270E+08
-1394	8,076438E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076140E+06	3,792830E+08	1,014466E+09	1,385891E+09	1,385919E+09	1,014547E+09	3,793904E+08
-1393	8,082678E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081700E+06	3,793636E+08	1,014488E+09	1,385851E+09	1,385851E+09	1,014467E+09	3,792991E+08
-1392	8,077696E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077239E+06	3,793364E+08	1,014483E+09	1,385846E+09	1,385835E+09	1,014461E+09	3,793317E+08
-1391	8,077665E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078538E+06	3,792926E+08	1,014444E+09	1,385839E+09	1,385866E+09	1,014514E+09	3,793684E+08
-1390	8,081505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081883E+06	3,793895E+08	1,014533E+09	1,385893E+09	1,385861E+09	1,014452E+09	3,792927E+08
-1389	8,076861E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074801E+06	3,793179E+08	1,014511E+09	1,385919E+09	1,385923E+09	1,014535E+09	3,793758E+08
-1388	8,078841E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080102E+06	3,793362E+08	1,014523E+09	1,385939E+09	1,385959E+09	1,014570E+09	3,793713E+08
-1387	8,080784E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078268E+06	3,794062E+08	1,014607E+09	1,386002E+09	1,385977E+09	1,014543E+09	3,793351E+08
-1386	8,076093E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074918E+06	3,793240E+08	1,014564E+09	1,386017E+09	1,386050E+09	1,014646E+09	3,794235E+08
-1385	8,079362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081776E+06	3,794053E+08	1,014620E+09	1,386030E+09	1,386033E+09	1,014612E+09	3,793611E+08
-1384	8,078467E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075157E+06	3,794067E+08	1,014660E+09	1,386076E+09	1,386045E+09	1,014599E+09	3,793712E+08
-1383	8,074677E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076995E+06	3,793344E+08	1,014593E+09	1,386058E+09	1,386083E+09	1,014666E+09	3,794297E+08
-1382	8,081222E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080271E+06	3,794245E+08	1,014643E+09	1,386060E+09	1,386041E+09	1,014588E+09	3,793380E+08
-1381	8,076542E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074978E+06	3,793660E+08	1,014601E+09	1,386024E+09	1,386021E+09	1,014600E+09	3,793862E+08

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	8,076211E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079342E+06	3,793382E+08	1,014542E+09	1,385959E+09	1,385980E+09	1,014594E+09	3,793911E+08
-1379	8,081926E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078998E+06	3,794075E+08	1,014587E+09	1,385953E+09	1,385912E+09	1,014490E+09	3,793087E+08
-1378	8,075514E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075770E+06	3,793017E+08	1,014490E+09	1,385899E+09	1,385906E+09	1,014526E+09	3,793794E+08
-1377	8,080873E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080798E+06	3,793311E+08	1,014462E+09	1,385832E+09	1,385836E+09	1,014466E+09	3,793202E+08
-1376	8,080696E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078520E+06	3,793474E+08	1,014471E+09	1,385817E+09	1,385785E+09	1,014395E+09	3,792854E+08
-1375	8,076601E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077429E+06	3,792542E+08	1,014367E+09	1,385751E+09	1,385786E+09	1,014454E+09	3,793552E+08
-1374	8,082728E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083229E+06	3,793401E+08	1,014411E+09	1,385740E+09	1,385730E+09	1,014376E+09	3,792671E+08
-1373	8,078248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077820E+06	3,793112E+08	1,014412E+09	1,385746E+09	1,385728E+09	1,014379E+09	3,793014E+08
-1372	8,078125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078521E+06	3,792590E+08	1,014364E+09	1,385734E+09	1,385761E+09	1,014437E+09	3,793457E+08
-1371	8,082833E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081866E+06	3,793566E+08	1,014454E+09	1,385789E+09	1,385765E+09	1,014386E+09	3,792697E+08
-1370	8,078051E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,074965E+06	3,792850E+08	1,014427E+09	1,385817E+09	1,385832E+09	1,014473E+09	3,793538E+08
-1369	8,079524E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081373E+06	3,793143E+08	1,014444E+09	1,385824E+09	1,385847E+09	1,014491E+09	3,793409E+08
-1368	8,081059E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079220E+06	3,793853E+08	1,014538E+09	1,385897E+09	1,385867E+09	1,014459E+09	3,792994E+08
-1367	8,075776E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075915E+06	3,793023E+08	1,014493E+09	1,385912E+09	1,385937E+09	1,014564E+09	3,793946E+08
-1366	8,079753E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082563E+06	3,793790E+08	1,014552E+09	1,385944E+09	1,385937E+09	1,014533E+09	3,793344E+08
-1365	8,079479E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075620E+06	3,793767E+08	1,014581E+09	1,385976E+09	1,385949E+09	1,014526E+09	3,793418E+08
-1364	8,075244E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077351E+06	3,792994E+08	1,014498E+09	1,385932E+09	1,385967E+09	1,014585E+09	3,794031E+08
-1363	8,082362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080842E+06	3,793948E+08	1,014554E+09	1,385929E+09	1,385916E+09	1,014504E+09	3,793091E+08
-1362	8,077349E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075525E+06	3,793340E+08	1,014515E+09	1,385902E+09	1,385896E+09	1,014511E+09	3,793563E+08
-1361	8,077207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080145E+06	3,793076E+08	1,014454E+09	1,385833E+09	1,385845E+09	1,014490E+09	3,793541E+08
-1360	8,082818E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079626E+06	3,793704E+08	1,014493E+09	1,385830E+09	1,385788E+09	1,014389E+09	3,792677E+08
-1359	8,076008E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076606E+06	3,792630E+08	1,014383E+09	1,385761E+09	1,385776E+09	1,014432E+09	3,793442E+08
-1358	8,081625E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082034E+06	3,792957E+08	1,014361E+09	1,385704E+09	1,385712E+09	1,014376E+09	3,792864E+08
-1357	8,081312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079769E+06	3,793173E+08	1,014373E+09	1,385681E+09	1,385656E+09	1,014306E+09	3,792501E+08
-1356	8,076805E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077904E+06	3,792218E+08	1,014272E+09	1,385612E+09	1,385646E+09	1,014359E+09	3,793263E+08
-1355	8,083655E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083514E+06	3,793085E+08	1,014329E+09	1,385618E+09	1,385606E+09	1,014289E+09	3,792400E+08
-1354	8,079502E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077728E+06	3,792766E+08	1,014331E+09	1,385642E+09	1,385623E+09	1,014301E+09	3,792767E+08
-1353	8,079424E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079307E+06	3,792309E+08	1,014284E+09	1,385627E+09	1,385653E+09	1,014353E+09	3,793143E+08
-1352	8,083519E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082816E+06	3,793317E+08	1,014378E+09	1,385686E+09	1,385666E+09	1,014310E+09	3,792355E+08
-1351	8,077963E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076300E+06	3,792670E+08	1,014357E+09	1,385712E+09	1,385729E+09	1,014401E+09	3,793250E+08
-1350	8,079374E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082648E+06	3,792972E+08	1,014389E+09	1,385744E+09	1,385756E+09	1,014420E+09	3,793149E+08
-1349	8,081444E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079601E+06	3,793615E+08	1,014476E+09	1,385814E+09	1,385780E+09	1,014392E+09	3,792727E+08
-1348	8,076114E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075750E+06	3,792679E+08	1,014413E+09	1,385808E+09	1,385836E+09	1,014491E+09	3,793734E+08
-1347	8,081117E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082353E+06	3,793413E+08	1,014462E+09	1,385826E+09	1,385831E+09	1,014463E+09	3,793113E+08
-1346	8,080768E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,075863E+06	3,793400E+08	1,014484E+09	1,385851E+09	1,385835E+09	1,014449E+09	3,793161E+08
-1345	8,076246E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078523E+06	3,792716E+08	1,014404E+09	1,385793E+09	1,385827E+09	1,014485E+09	3,793662E+08

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	8,082923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081668E+06	3,793651E+08	1,014467E+09	1,385798E+09	1,385778E+09	1,014400E+09	3,792690E+08
-1343	8,077542E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076513E+06	3,793031E+08	1,014426E+09	1,385776E+09	1,385763E+09	1,014410E+09	3,793204E+08
-1342	8,078012E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080946E+06	3,792734E+08	1,014368E+09	1,385724E+09	1,385727E+09	1,014395E+09	3,793192E+08
-1341	8,083710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080521E+06	3,793344E+08	1,014396E+09	1,385706E+09	1,385671E+09	1,014303E+09	3,792322E+08
-1340	8,076512E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077378E+06	3,792275E+08	1,014277E+09	1,385615E+09	1,385640E+09	1,014341E+09	3,793139E+08
-1339	8,082571E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082804E+06	3,792636E+08	1,014263E+09	1,385560E+09	1,385576E+09	1,014288E+09	3,792565E+08
-1338	8,082116E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080418E+06	3,792851E+08	1,014284E+09	1,385554E+09	1,385526E+09	1,014216E+09	3,792212E+08
-1337	8,077862E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078531E+06	3,791919E+08	1,014187E+09	1,385490E+09	1,385514E+09	1,014256E+09	3,792900E+08
-1336	8,084382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083890E+06	3,792750E+08	1,014248E+09	1,385511E+09	1,385494E+09	1,014198E+09	3,792041E+08
-1335	8,079977E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078463E+06	3,792467E+08	1,014248E+09	1,385534E+09	1,385518E+09	1,014223E+09	3,792457E+08
-1334	8,079821E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080528E+06	3,792078E+08	1,014214E+09	1,385536E+09	1,385560E+09	1,014283E+09	3,792855E+08
-1333	8,083666E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083855E+06	3,793115E+08	1,014310E+09	1,385589E+09	1,385572E+09	1,014246E+09	3,792092E+08
-1332	8,078033E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076605E+06	3,792413E+08	1,014285E+09	1,385607E+09	1,385622E+09	1,014330E+09	3,793048E+08
-1331	8,080238E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082479E+06	3,792653E+08	1,014315E+09	1,385642E+09	1,385658E+09	1,014354E+09	3,792962E+08
-1330	8,082880E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079247E+06	3,793240E+08	1,014393E+09	1,385714E+09	1,385685E+09	1,014323E+09	3,792525E+08
-1329	8,077455E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076351E+06	3,792362E+08	1,014323E+09	1,385689E+09	1,385720E+09	1,014404E+09	3,793414E+08
-1328	8,081860E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083131E+06	3,793133E+08	1,014377E+09	1,385706E+09	1,385711E+09	1,014374E+09	3,792752E+08
-1327	8,080762E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077328E+06	3,793188E+08	1,014404E+09	1,385727E+09	1,385706E+09	1,014357E+09	3,792803E+08
-1326	8,076351E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079932E+06	3,792511E+08	1,014339E+09	1,385694E+09	1,385710E+09	1,014392E+09	3,793302E+08
-1325	8,083193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082496E+06	3,793373E+08	1,014391E+09	1,385694E+09	1,385668E+09	1,014314E+09	3,792346E+08
-1324	8,077901E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076809E+06	3,792638E+08	1,014328E+09	1,385651E+09	1,385641E+09	1,014322E+09	3,792915E+08
-1323	8,079348E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081065E+06	3,792302E+08	1,014258E+09	1,385584E+09	1,385604E+09	1,014314E+09	3,792914E+08
-1322	8,084919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081102E+06	3,792922E+08	1,014283E+09	1,385560E+09	1,385536E+09	1,014215E+09	3,792034E+08
-1321	8,077587E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078454E+06	3,791952E+08	1,014171E+09	1,385458E+09	1,385481E+09	1,014229E+09	3,792756E+08
-1320	8,083304E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083431E+06	3,792300E+08	1,014170E+09	1,385421E+09	1,385426E+09	1,014176E+09	3,792172E+08
-1319	8,082490E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081268E+06	3,792536E+08	1,014196E+09	1,385430E+09	1,385392E+09	1,014114E+09	3,791862E+08
-1318	8,078806E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079270E+06	3,791627E+08	1,014114E+09	1,385395E+09	1,385410E+09	1,014169E+09	3,792555E+08
-1317	8,084907E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084823E+06	3,792470E+08	1,014170E+09	1,385413E+09	1,385402E+09	1,014128E+09	3,791742E+08
-1316	8,080306E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079094E+06	3,792197E+08	1,014168E+09	1,385427E+09	1,385417E+09	1,014155E+09	3,792221E+08
-1315	8,080443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081068E+06	3,791827E+08	1,014141E+09	1,385430E+09	1,385463E+09	1,014221E+09	3,792650E+08
-1314	8,084382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084034E+06	3,792823E+08	1,014239E+09	1,385494E+09	1,385476E+09	1,014181E+09	3,791903E+08
-1313	8,079067E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,076940E+06	3,792126E+08	1,014208E+09	1,385501E+09	1,385512E+09	1,014247E+09	3,792769E+08
-1312	8,081008E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082502E+06	3,792301E+08	1,014231E+09	1,385535E+09	1,385550E+09	1,014271E+09	3,792662E+08
-1311	8,083437E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080044E+06	3,792939E+08	1,014305E+09	1,385597E+09	1,385573E+09	1,014244E+09	3,792223E+08
-1310	8,077854E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077852E+06	3,792154E+08	1,014252E+09	1,385585E+09	1,385609E+09	1,014319E+09	3,793053E+08
-1309	8,081683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084384E+06	3,792938E+08	1,014307E+09	1,385598E+09	1,385597E+09	1,014290E+09	3,792419E+08

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												
-1308	8,080728E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077975E+06	3,792923E+08	1,014328E+09	1,385615E+09	1,385584E+09	1,014268E+09	3,792520E+08
-1307	8,077257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079977E+06	3,792156E+08	1,014253E+09	1,385580E+09	1,385599E+09	1,014312E+09	3,793052E+08
-1306	8,084683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082416E+06	3,792938E+08	1,014292E+09	1,385574E+09	1,385556E+09	1,014235E+09	3,792105E+08
-1305	8,079439E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077624E+06	3,792245E+08	1,014217E+09	1,385505E+09	1,385502E+09	1,014223E+09	3,792565E+08
-1304	8,080438E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081768E+06	3,791932E+08	1,014152E+09	1,385436E+09	1,385459E+09	1,014210E+09	3,792533E+08
-1303	8,085162E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082583E+06	3,792624E+08	1,014185E+09	1,385415E+09	1,385388E+09	1,014108E+09	3,791652E+08
-1302	8,078045E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079699E+06	3,791704E+08	1,014096E+09	1,385345E+09	1,385348E+09	1,014122E+09	3,792334E+08
-1301	8,083469E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084216E+06	3,792006E+08	1,014092E+09	1,385313E+09	1,385311E+09	1,014083E+09	3,791811E+08
-1300	8,082853E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081607E+06	3,792179E+08	1,014107E+09	1,385315E+09	1,385280E+09	1,014031E+09	3,791573E+08
-1299	8,079940E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079587E+06	3,791274E+08	1,014021E+09	1,385279E+09	1,385311E+09	1,014103E+09	3,792311E+08
-1298	8,085795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085474E+06	3,792142E+08	1,014080E+09	1,385297E+09	1,385298E+09	1,014062E+09	3,791537E+08
-1297	8,081253E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079842E+06	3,791922E+08	1,014082E+09	1,385303E+09	1,385294E+09	1,014070E+09	3,791941E+08
-1296	8,081092E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081259E+06	3,791522E+08	1,014064E+09	1,385322E+09	1,385346E+09	1,014134E+09	3,792363E+08
-1295	8,084778E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084494E+06	3,792515E+08	1,014160E+09	1,385389E+09	1,385367E+09	1,014098E+09	3,791625E+08
-1294	8,079883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,077736E+06	3,791888E+08	1,014144E+09	1,385412E+09	1,385414E+09	1,014166E+09	3,792438E+08
-1293	8,081160E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083685E+06	3,792091E+08	1,014161E+09	1,385438E+09	1,385455E+09	1,014200E+09	3,792361E+08
-1292	8,083502E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081021E+06	3,792728E+08	1,014232E+09	1,385489E+09	1,385465E+09	1,014169E+09	3,791964E+08
-1291	8,078353E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078650E+06	3,791928E+08	1,014181E+09	1,385482E+09	1,385509E+09	1,014248E+09	3,792806E+08
-1290	8,082464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084490E+06	3,792616E+08	1,014231E+09	1,385499E+09	1,385495E+09	1,014214E+09	3,792199E+08
-1289	8,081978E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078170E+06	3,792546E+08	1,014237E+09	1,385497E+09	1,385463E+09	1,014175E+09	3,792210E+08
-1288	8,078503E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079836E+06	3,791712E+08	1,014150E+09	1,385451E+09	1,385472E+09	1,014217E+09	3,792721E+08
-1287	8,085514E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083295E+06	3,792531E+08	1,014179E+09	1,385428E+09	1,385418E+09	1,014138E+09	3,791760E+08
-1286	8,080147E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079344E+06	3,791972E+08	1,014123E+09	1,385365E+09	1,385360E+09	1,014117E+09	3,792144E+08
-1285	8,080549E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083184E+06	3,791673E+08	1,014060E+09	1,385298E+09	1,385316E+09	1,014106E+09	3,792136E+08
-1284	8,085235E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083438E+06	3,792302E+08	1,014093E+09	1,385282E+09	1,385246E+09	1,014004E+09	3,791313E+08
-1283	8,079085E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079916E+06	3,791337E+08	1,014003E+09	1,385226E+09	1,385232E+09	1,014033E+09	3,792023E+08
-1282	8,084691E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084334E+06	3,791602E+08	1,013998E+09	1,385201E+09	1,385204E+09	1,014004E+09	3,791558E+08
-1281	8,084145E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082382E+06	3,791838E+08	1,014010E+09	1,385187E+09	1,385159E+09	1,013944E+09	3,791264E+08
-1280	8,080895E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080197E+06	3,790974E+08	1,013934E+09	1,385157E+09	1,385189E+09	1,014018E+09	3,792006E+08
-1279	8,085927E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086721E+06	3,791893E+08	1,014001E+09	1,385183E+09	1,385181E+09	1,013979E+09	3,791261E+08
-1278	8,081816E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080900E+06	3,791730E+08	1,014023E+09	1,385213E+09	1,385191E+09	1,013984E+09	3,791600E+08
-1277	8,081057E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081930E+06	3,791274E+08	1,013996E+09	1,385232E+09	1,385254E+09	1,014059E+09	3,792068E+08
-1276	8,085015E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084744E+06	3,792202E+08	1,014081E+09	1,385288E+09	1,385271E+09	1,014027E+09	3,791382E+08
-1275	8,080739E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078162E+06	3,791601E+08	1,014061E+09	1,385309E+09	1,385324E+09	1,014103E+09	3,792202E+08
-1274	8,081847E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084264E+06	3,791823E+08	1,014084E+09	1,385333E+09	1,385355E+09	1,014132E+09	3,792158E+08
-1273	8,084500E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081620E+06	3,792464E+08	1,014152E+09	1,385371E+09	1,385343E+09	1,014081E+09	3,791688E+08



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	8,079314E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078736E+06	3,791598E+08	1,014102E+09	1,385373E+09	1,385389E+09	1,014157E+09	3,792507E+08
-1271	8,083245E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084880E+06	3,792247E+08	1,014140E+09	1,385384E+09	1,385380E+09	1,014126E+09	3,791903E+08
-1270	8,083074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079293E+06	3,792241E+08	1,014152E+09	1,385383E+09	1,385348E+09	1,014081E+09	3,791813E+08
-1269	8,078704E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081238E+06	3,791436E+08	1,014056E+09	1,385323E+09	1,385349E+09	1,014127E+09	3,792346E+08
-1268	8,085569E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084583E+06	3,792243E+08	1,014083E+09	1,385288E+09	1,385279E+09	1,014041E+09	3,791414E+08
-1267	8,080588E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080504E+06	3,791693E+08	1,014032E+09	1,385235E+09	1,385230E+09	1,014022E+09	3,791804E+08
-1266	8,081388E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083535E+06	3,791326E+08	1,013972E+09	1,385177E+09	1,385190E+09	1,014011E+09	3,791839E+08
-1265	8,086409E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083696E+06	3,791887E+08	1,013991E+09	1,385149E+09	1,385112E+09	1,013902E+09	3,790979E+08
-1264	8,080579E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079834E+06	3,790900E+08	1,013901E+09	1,385096E+09	1,385105E+09	1,013939E+09	3,791684E+08
-1263	8,085425E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085291E+06	3,791229E+08	1,013894E+09	1,385066E+09	1,385078E+09	1,013916E+09	3,791243E+08
-1262	8,084824E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083924E+06	3,791612E+08	1,013930E+09	1,385068E+09	1,385037E+09	1,013853E+09	3,790891E+08
-1261	8,080910E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081439E+06	3,790769E+08	1,013860E+09	1,385046E+09	1,385073E+09	1,013933E+09	3,791685E+08
-1260	8,085923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087211E+06	3,791596E+08	1,013924E+09	1,385076E+09	1,385069E+09	1,013898E+09	3,791007E+08
-1259	8,082829E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080957E+06	3,791409E+08	1,013942E+09	1,385115E+09	1,385102E+09	1,013917E+09	3,791370E+08
-1258	8,082236E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082007E+06	3,790939E+08	1,013915E+09	1,385134E+09	1,385165E+09	1,013995E+09	3,791870E+08
-1257	8,086216E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085235E+06	3,791906E+08	1,013995E+09	1,385173E+09	1,385162E+09	1,013951E+09	3,791132E+08
-1256	8,081752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,078659E+06	3,791354E+08	1,013989E+09	1,385202E+09	1,385212E+09	1,014023E+09	3,791908E+08
-1255	8,082011E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085315E+06	3,791595E+08	1,014014E+09	1,385231E+09	1,385246E+09	1,014050E+09	3,791870E+08
-1254	8,085085E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082638E+06	3,792269E+08	1,014093E+09	1,385281E+09	1,385240E+09	1,013994E+09	3,791318E+08
-1253	8,079318E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,079638E+06	3,791332E+08	1,014025E+09	1,385271E+09	1,385288E+09	1,014076E+09	3,792166E+08
-1252	8,083527E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085435E+06	3,791885E+08	1,014044E+09	1,385261E+09	1,385265E+09	1,014044E+09	3,791603E+08
-1251	8,083822E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080379E+06	3,791904E+08	1,014047E+09	1,385250E+09	1,385233E+09	1,014001E+09	3,791509E+08
-1250	8,079455E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082010E+06	3,791115E+08	1,013958E+09	1,385184E+09	1,385216E+09	1,014036E+09	3,792064E+08
-1249	8,086633E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085128E+06	3,791882E+08	1,013982E+09	1,385141E+09	1,385126E+09	1,013932E+09	3,791081E+08
-1248	8,081853E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080499E+06	3,791289E+08	1,013935E+09	1,385100E+09	1,385083E+09	1,013911E+09	3,791435E+08
-1247	8,082435E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083877E+06	3,790914E+08	1,013870E+09	1,385047E+09	1,385059E+09	1,013910E+09	3,791488E+08
-1246	8,087549E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084986E+06	3,791588E+08	1,013903E+09	1,385027E+09	1,384990E+09	1,013805E+09	3,790565E+08
-1245	8,080873E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081323E+06	3,790650E+08	1,013813E+09	1,384973E+09	1,384987E+09	1,013853E+09	3,791318E+08
-1244	8,085422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086539E+06	3,790965E+08	1,013808E+09	1,384944E+09	1,384958E+09	1,013832E+09	3,790948E+08
-1243	8,085309E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084845E+06	3,791340E+08	1,013849E+09	1,384960E+09	1,384934E+09	1,013778E+09	3,790624E+08
-1242	8,081781E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081492E+06	3,790454E+08	1,013783E+09	1,384945E+09	1,384972E+09	1,013859E+09	3,791462E+08
-1241	8,086989E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087012E+06	3,791203E+08	1,013833E+09	1,384959E+09	1,384958E+09	1,013817E+09	3,790756E+08
-1240	8,084233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080785E+06	3,791046E+08	1,013854E+09	1,385001E+09	1,384990E+09	1,013838E+09	3,791082E+08
-1239	8,082728E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083082E+06	3,790672E+08	1,013831E+09	1,385019E+09	1,385056E+09	1,013918E+09	3,791584E+08
-1238	8,086652E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086827E+06	3,791782E+08	1,013935E+09	1,385071E+09	1,385052E+09	1,013868E+09	3,790778E+08
-1237	8,081545E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080008E+06	3,791210E+08	1,013931E+09	1,385110E+09	1,385109E+09	1,013942E+09	3,791578E+08

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	8,081883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085856E+06	3,791324E+08	1,013944E+09	1,385135E+09	1,385144E+09	1,013971E+09	3,791593E+08
-1235	8,085826E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082952E+06	3,791937E+08	1,014010E+09	1,385184E+09	1,385153E+09	1,013927E+09	3,791063E+08
-1234	8,080329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080040E+06	3,790996E+08	1,013935E+09	1,385157E+09	1,385184E+09	1,014005E+09	3,791932E+08
-1233	8,084693E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085786E+06	3,791505E+08	1,013938E+09	1,385118E+09	1,385132E+09	1,013956E+09	3,791326E+08
-1232	8,085043E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080956E+06	3,791568E+08	1,013951E+09	1,385110E+09	1,385087E+09	1,013901E+09	3,791173E+08
-1231	8,080152E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082878E+06	3,790788E+08	1,013865E+09	1,385051E+09	1,385074E+09	1,013930E+09	3,791696E+08
-1230	8,087520E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086088E+06	3,791592E+08	1,013899E+09	1,385018E+09	1,384991E+09	1,013822E+09	3,790645E+08
-1229	8,082203E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081396E+06	3,790959E+08	1,013844E+09	1,384979E+09	1,384959E+09	1,013813E+09	3,791021E+08
-1228	8,082864E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084544E+06	3,790527E+08	1,013767E+09	1,384914E+09	1,384933E+09	1,013819E+09	3,791136E+08
-1227	8,088097E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086267E+06	3,791251E+08	1,013799E+09	1,384895E+09	1,384875E+09	1,013726E+09	3,790267E+08
-1226	8,081741E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082174E+06	3,790356E+08	1,013720E+09	1,384843E+09	1,384863E+09	1,013771E+09	3,791063E+08
-1225	8,086396E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086764E+06	3,790589E+08	1,013712E+09	1,384809E+09	1,384822E+09	1,013739E+09	3,790681E+08
-1224	8,086679E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084691E+06	3,790953E+08	1,013759E+09	1,384839E+09	1,384806E+09	1,013686E+09	3,790329E+08
-1223	8,082744E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081837E+06	3,790105E+08	1,013694E+09	1,384831E+09	1,384859E+09	1,013773E+09	3,791155E+08
-1222	8,087722E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088251E+06	3,790996E+08	1,013762E+09	1,384853E+09	1,384850E+09	1,013734E+09	3,790394E+08
-1221	8,084184E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082338E+06	3,790918E+08	1,013792E+09	1,384903E+09	1,384889E+09	1,013763E+09	3,790739E+08
-1220	8,082308E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084472E+06	3,790523E+08	1,013773E+09	1,384927E+09	1,384956E+09	1,013846E+09	3,791301E+08
-1219	8,086720E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087712E+06	3,791583E+08	1,013875E+09	1,384992E+09	1,384974E+09	1,013805E+09	3,790550E+08
-1218	8,082305E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080037E+06	3,790922E+08	1,013864E+09	1,385025E+09	1,385026E+09	1,013880E+09	3,791383E+08
-1217	8,083004E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085248E+06	3,790885E+08	1,013850E+09	1,385021E+09	1,385039E+09	1,013898E+09	3,791378E+08
-1216	8,087405E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082661E+06	3,791501E+08	1,013907E+09	1,385054E+09	1,385029E+09	1,013845E+09	3,790784E+08
-1215	8,081088E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080969E+06	3,790658E+08	1,013833E+09	1,385015E+09	1,385049E+09	1,013912E+09	3,791615E+08
-1214	8,085494E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087192E+06	3,791288E+08	1,013855E+09	1,384981E+09	1,384986E+09	1,013849E+09	3,790918E+08
-1213	8,085101E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082320E+06	3,791329E+08	1,013870E+09	1,384984E+09	1,384948E+09	1,013794E+09	3,790755E+08
-1212	8,080459E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083515E+06	3,790444E+08	1,013775E+09	1,384927E+09	1,384943E+09	1,013827E+09	3,791311E+08
-1211	8,088224E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086807E+06	3,791207E+08	1,013800E+09	1,384901E+09	1,384883E+09	1,013736E+09	3,790318E+08
-1210	8,083245E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082152E+06	3,790607E+08	1,013746E+09	1,384853E+09	1,384842E+09	1,013730E+09	3,790726E+08
-1209	8,083918E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085007E+06	3,790142E+08	1,013661E+09	1,384770E+09	1,384797E+09	1,013729E+09	3,790846E+08
-1208	8,089123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086981E+06	3,790911E+08	1,013705E+09	1,384759E+09	1,384734E+09	1,013632E+09	3,789954E+08
-1207	8,082432E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082996E+06	3,790048E+08	1,013631E+09	1,384717E+09	1,384731E+09	1,013675E+09	3,790740E+08
-1206	8,087172E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087625E+06	3,790317E+08	1,013632E+09	1,384693E+09	1,384699E+09	1,013642E+09	3,790296E+08
-1205	8,086898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085588E+06	3,790672E+08	1,013678E+09	1,384730E+09	1,384696E+09	1,013600E+09	3,789962E+08
-1204	8,082902E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082673E+06	3,789821E+08	1,013612E+09	1,384721E+09	1,384752E+09	1,013694E+09	3,790829E+08
-1203	8,087716E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089437E+06	3,790767E+08	1,013687E+09	1,384756E+09	1,384760E+09	1,013669E+09	3,790162E+08
-1202	8,084884E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082961E+06	3,790723E+08	1,013731E+09	1,384812E+09	1,384795E+09	1,013698E+09	3,790543E+08
-1201	8,083142E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084174E+06	3,790183E+08	1,013698E+09	1,384824E+09	1,384851E+09	1,013772E+09	3,791110E+08

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	8,088207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087045E+06	3,791189E+08	1,013793E+09	1,384889E+09	1,384868E+09	1,013732E+09	3,790335E+08
-1199	8,083543E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,080278E+06	3,790553E+08	1,013772E+09	1,384912E+09	1,384920E+09	1,013803E+09	3,791116E+08
-1198	8,083955E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086234E+06	3,790614E+08	1,013763E+09	1,384898E+09	1,384920E+09	1,013811E+09	3,791021E+08
-1197	8,087533E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084243E+06	3,791293E+08	1,013826E+09	1,384930E+09	1,384903E+09	1,013753E+09	3,790405E+08
-1196	8,080906E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082422E+06	3,790435E+08	1,013754E+09	1,384894E+09	1,384916E+09	1,013813E+09	3,791230E+08
-1195	8,085554E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088200E+06	3,791014E+08	1,013775E+09	1,384874E+09	1,384873E+09	1,013759E+09	3,790596E+08
-1194	8,085866E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082786E+06	3,791001E+08	1,013786E+09	1,384871E+09	1,384833E+09	1,013706E+09	3,790445E+08
-1193	8,081608E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083267E+06	3,789977E+08	1,013666E+09	1,384792E+09	1,384814E+09	1,013735E+09	3,791005E+08
-1192	8,089559E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087088E+06	3,790765E+08	1,013689E+09	1,384755E+09	1,384744E+09	1,013645E+09	3,790007E+08
-1191	8,084065E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083381E+06	3,790259E+08	1,013639E+09	1,384706E+09	1,384701E+09	1,013633E+09	3,790392E+08
-1190	8,084782E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086331E+06	3,789887E+08	1,013571E+09	1,384630E+09	1,384650E+09	1,013622E+09	3,790448E+08
-1189	8,089261E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088232E+06	3,790632E+08	1,013621E+09	1,384634E+09	1,384597E+09	1,013527E+09	3,789565E+08
-1188	8,082827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083539E+06	3,789720E+08	1,013544E+09	1,384600E+09	1,384608E+09	1,013578E+09	3,790377E+08
-1187	8,087638E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088359E+06	3,789984E+08	1,013546E+09	1,384590E+09	1,384602E+09	1,013566E+09	3,790022E+08
-1186	8,087771E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086250E+06	3,790404E+08	1,013599E+09	1,384626E+09	1,384598E+09	1,013532E+09	3,789728E+08
-1185	8,083823E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082866E+06	3,789519E+08	1,013532E+09	1,384611E+09	1,384646E+09	1,013623E+09	3,790611E+08
-1184	8,088634E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089702E+06	3,790486E+08	1,013617E+09	1,384655E+09	1,384652E+09	1,013597E+09	3,789948E+08
-1183	8,085774E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083256E+06	3,790437E+08	1,013660E+09	1,384719E+09	1,384697E+09	1,013623E+09	3,790298E+08
-1182	8,083979E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084648E+06	3,789917E+08	1,013626E+09	1,384725E+09	1,384749E+09	1,013691E+09	3,790790E+08
-1181	8,088471E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087714E+06	3,790885E+08	1,013711E+09	1,384782E+09	1,384763E+09	1,013653E+09	3,789997E+08
-1180	8,083618E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081450E+06	3,790278E+08	1,013683E+09	1,384791E+09	1,384803E+09	1,013719E+09	3,790773E+08
-1179	8,083836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087674E+06	3,790374E+08	1,013678E+09	1,384782E+09	1,384808E+09	1,013731E+09	3,790740E+08
-1178	8,088094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085271E+06	3,791069E+08	1,013752E+09	1,384816E+09	1,384782E+09	1,013666E+09	3,790128E+08
-1177	8,081752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082373E+06	3,790057E+08	1,013665E+09	1,384772E+09	1,384787E+09	1,013717E+09	3,790932E+08
-1176	8,086899E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087870E+06	3,790585E+08	1,013681E+09	1,384750E+09	1,384744E+09	1,013665E+09	3,790295E+08
-1175	8,087051E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083361E+06	3,790598E+08	1,013684E+09	1,384742E+09	1,384708E+09	1,013613E+09	3,790111E+08
-1174	8,082709E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084468E+06	3,789679E+08	1,013568E+09	1,384651E+09	1,384677E+09	1,013635E+09	3,790605E+08
-1173	8,089748E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088800E+06	3,790500E+08	1,013596E+09	1,384619E+09	1,384605E+09	1,013544E+09	3,789618E+08
-1172	8,084224E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084859E+06	3,789982E+08	1,013549E+09	1,384575E+09	1,384562E+09	1,013530E+09	3,790007E+08
-1171	8,085128E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087104E+06	3,789547E+08	1,013482E+09	1,384517E+09	1,384535E+09	1,013532E+09	3,790147E+08
-1170	8,090225E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088500E+06	3,790260E+08	1,013531E+09	1,384520E+09	1,384485E+09	1,013443E+09	3,789287E+08
-1169	8,084133E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082987E+06	3,789254E+08	1,013439E+09	1,384469E+09	1,384486E+09	1,013493E+09	3,790095E+08
-1168	8,088815E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088508E+06	3,789601E+08	1,013448E+09	1,384460E+09	1,384478E+09	1,013486E+09	3,789770E+08
-1167	8,088657E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087222E+06	3,790141E+08	1,013515E+09	1,384507E+09	1,384482E+09	1,013452E+09	3,789461E+08
-1166	8,084636E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084004E+06	3,789338E+08	1,013464E+09	1,384503E+09	1,384529E+09	1,013535E+09	3,790281E+08
-1165	8,088725E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090697E+06	3,790256E+08	1,013551E+09	1,384561E+09	1,384549E+09	1,013514E+09	3,789636E+08

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												
-1164	8,086148E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083844E+06	3,790151E+08	1,013585E+09	1,384623E+09	1,384600E+09	1,013545E+09	3,789978E+08
-1163	8,084092E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085491E+06	3,789628E+08	1,013547E+09	1,384633E+09	1,384663E+09	1,013625E+09	3,790538E+08
-1162	8,089034E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088562E+06	3,790646E+08	1,013636E+09	1,384678E+09	1,384665E+09	1,013585E+09	3,789754E+08
-1161	8,084186E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,081921E+06	3,789996E+08	1,013602E+09	1,384672E+09	1,384684E+09	1,013637E+09	3,790509E+08
-1160	8,084626E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088058E+06	3,790090E+08	1,013601E+09	1,384667E+09	1,384683E+09	1,013644E+09	3,790483E+08
-1159	8,089117E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085739E+06	3,790747E+08	1,013669E+09	1,384705E+09	1,384665E+09	1,013576E+09	3,789829E+08
-1158	8,082893E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082948E+06	3,789726E+08	1,013577E+09	1,384653E+09	1,384664E+09	1,013619E+09	3,790540E+08
-1157	8,087426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088660E+06	3,790215E+08	1,013582E+09	1,384623E+09	1,384618E+09	1,013569E+09	3,789904E+08
-1156	8,087334E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084746E+06	3,790257E+08	1,013579E+09	1,384602E+09	1,384574E+09	1,013515E+09	3,789719E+08
-1155	8,082900E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085867E+06	3,789381E+08	1,013471E+09	1,384520E+09	1,384548E+09	1,013544E+09	3,790294E+08
-1154	8,090496E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089693E+06	3,790180E+08	1,013505E+09	1,384488E+09	1,384470E+09	1,013449E+09	3,789325E+08
-1153	8,085422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084666E+06	3,789534E+08	1,013444E+09	1,384437E+09	1,384424E+09	1,013429E+09	3,789707E+08
-1152	8,086767E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086855E+06	3,789095E+08	1,013375E+09	1,384380E+09	1,384401E+09	1,013437E+09	3,789848E+08
-1151	8,091459E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089103E+06	3,789871E+08	1,013428E+09	1,384389E+09	1,384361E+09	1,013353E+09	3,788971E+08
-1150	8,085206E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084223E+06	3,789022E+08	1,013354E+09	1,384343E+09	1,384359E+09	1,013399E+09	3,789707E+08
-1149	8,088679E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090183E+06	3,789423E+08	1,013379E+09	1,384352E+09	1,384362E+09	1,013397E+09	3,789416E+08
-1148	8,088557E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088559E+06	3,789958E+08	1,013451E+09	1,384411E+09	1,384378E+09	1,013369E+09	3,789127E+08
-1147	8,084655E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084835E+06	3,789103E+08	1,013401E+09	1,384426E+09	1,384448E+09	1,013468E+09	3,790036E+08
-1146	8,089285E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090982E+06	3,789958E+08	1,013479E+09	1,384473E+09	1,384466E+09	1,013452E+09	3,789419E+08
-1145	8,087124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083481E+06	3,789749E+08	1,013491E+09	1,384510E+09	1,384499E+09	1,013476E+09	3,789750E+08
-1144	8,084985E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085775E+06	3,789299E+08	1,013455E+09	1,384508E+09	1,384547E+09	1,013552E+09	3,790316E+08
-1143	8,089939E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089274E+06	3,790373E+08	1,013552E+09	1,384557E+09	1,384545E+09	1,013503E+09	3,789503E+08
-1142	8,085190E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,082846E+06	3,789774E+08	1,013528E+09	1,384555E+09	1,384555E+09	1,013538E+09	3,790146E+08
-1141	8,085065E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088758E+06	3,789800E+08	1,013525E+09	1,384560E+09	1,384564E+09	1,013545E+09	3,790114E+08
-1140	8,089762E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086502E+06	3,790409E+08	1,013578E+09	1,384590E+09	1,384550E+09	1,013483E+09	3,789450E+08
-1139	8,083305E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083968E+06	3,789387E+08	1,013483E+09	1,384539E+09	1,384557E+09	1,013537E+09	3,790227E+08
-1138	8,088229E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089684E+06	3,789908E+08	1,013489E+09	1,384496E+09	1,384499E+09	1,013486E+09	3,789615E+08
-1137	8,088152E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085381E+06	3,789876E+08	1,013475E+09	1,384459E+09	1,384434E+09	1,013419E+09	3,789409E+08
-1136	8,084020E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086221E+06	3,789011E+08	1,013371E+09	1,384377E+09	1,384404E+09	1,013445E+09	3,789996E+08
-1135	8,091721E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090103E+06	3,789775E+08	1,013402E+09	1,384353E+09	1,384335E+09	1,013349E+09	3,788993E+08
-1134	8,086688E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085320E+06	3,789169E+08	1,013341E+09	1,384296E+09	1,384282E+09	1,013321E+09	3,789277E+08
-1133	8,087251E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087888E+06	3,788759E+08	1,013277E+09	1,384246E+09	1,384268E+09	1,013334E+09	3,789431E+08
-1132	8,091499E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090722E+06	3,789609E+08	1,013336E+09	1,384259E+09	1,384234E+09	1,013260E+09	3,788591E+08
-1131	8,085252E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085672E+06	3,788827E+08	1,013284E+09	1,384243E+09	1,384253E+09	1,013320E+09	3,789419E+08
-1130	8,089062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091036E+06	3,789200E+08	1,013317E+09	1,384261E+09	1,384264E+09	1,013324E+09	3,789183E+08
-1129	8,089490E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088097E+06	3,789581E+08	1,013371E+09	1,384313E+09	1,384281E+09	1,013298E+09	3,788907E+08



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												
-1128	8,085977E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084514E+06	3,788735E+08	1,013315E+09	1,384317E+09	1,384350E+09	1,013403E+09	3,789835E+08
-1127	8,090426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091209E+06	3,789607E+08	1,013389E+09	1,384362E+09	1,384367E+09	1,013385E+09	3,789194E+08
-1126	8,088178E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084480E+06	3,789531E+08	1,013411E+09	1,384390E+09	1,384381E+09	1,013393E+09	3,789421E+08
-1125	8,085078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087176E+06	3,789115E+08	1,013388E+09	1,384401E+09	1,384430E+09	1,013461E+09	3,789970E+08
-1124	8,090063E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090375E+06	3,790158E+08	1,013483E+09	1,384456E+09	1,384434E+09	1,013414E+09	3,789164E+08
-1123	8,085462E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083651E+06	3,789516E+08	1,013460E+09	1,384469E+09	1,384460E+09	1,013459E+09	3,789841E+08
-1122	8,085738E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089097E+06	3,789463E+08	1,013442E+09	1,384455E+09	1,384464E+09	1,013469E+09	3,789821E+08
-1121	8,090637E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086491E+06	3,789968E+08	1,013471E+09	1,384456E+09	1,384431E+09	1,013401E+09	3,789157E+08
-1120	8,084248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084708E+06	3,789033E+08	1,013375E+09	1,384388E+09	1,384419E+09	1,013449E+09	3,789946E+08
-1119	8,089317E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090478E+06	3,789552E+08	1,013385E+09	1,384349E+09	1,384356E+09	1,013388E+09	3,789312E+08
-1118	8,089337E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086507E+06	3,789555E+08	1,013376E+09	1,384312E+09	1,384279E+09	1,013304E+09	3,789003E+08
-1117	8,084816E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086925E+06	3,788650E+08	1,013273E+09	1,384241E+09	1,384258E+09	1,013329E+09	3,789566E+08
-1116	8,092315E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091063E+06	3,789404E+08	1,013300E+09	1,384217E+09	1,384200E+09	1,013244E+09	3,788572E+08
-1115	8,087032E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086594E+06	3,788883E+08	1,013252E+09	1,384179E+09	1,384164E+09	1,013232E+09	3,788912E+08
-1114	8,087669E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089122E+06	3,788531E+08	1,013201E+09	1,384134E+09	1,384155E+09	1,013252E+09	3,789122E+08
-1113	8,091917E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091255E+06	3,789302E+08	1,013255E+09	1,384146E+09	1,384122E+09	1,013181E+09	3,788338E+08
-1112	8,086347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085849E+06	3,788522E+08	1,013206E+09	1,384135E+09	1,384148E+09	1,013248E+09	3,789205E+08
-1111	8,090273E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090896E+06	3,788819E+08	1,013233E+09	1,384160E+09	1,384168E+09	1,013254E+09	3,788971E+08
-1110	8,090910E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088228E+06	3,789219E+08	1,013279E+09	1,384195E+09	1,384170E+09	1,013218E+09	3,788593E+08
-1109	8,086505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085261E+06	3,788433E+08	1,013227E+09	1,384198E+09	1,384235E+09	1,013318E+09	3,789499E+08
-1108	8,090411E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092520E+06	3,789377E+08	1,013305E+09	1,384240E+09	1,384249E+09	1,013303E+09	3,788867E+08
-1107	8,088184E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,085805E+06	3,789373E+08	1,013350E+09	1,384294E+09	1,384274E+09	1,013313E+09	3,789132E+08
-1106	8,085443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088067E+06	3,788914E+08	1,013329E+09	1,384312E+09	1,384330E+09	1,013382E+09	3,789694E+08
-1105	8,090858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090103E+06	3,789786E+08	1,013401E+09	1,384353E+09	1,384330E+09	1,013335E+09	3,788906E+08
-1104	8,086668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,083763E+06	3,789151E+08	1,013368E+09	1,384350E+09	1,384353E+09	1,013385E+09	3,789585E+08
-1103	8,086916E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089482E+06	3,789094E+08	1,013345E+09	1,384330E+09	1,384350E+09	1,013391E+09	3,789552E+08
-1102	8,091625E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087668E+06	3,789676E+08	1,013374E+09	1,384314E+09	1,384290E+09	1,013304E+09	3,788786E+08
-1101	8,084601E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086102E+06	3,788773E+08	1,013286E+09	1,384253E+09	1,384274E+09	1,013340E+09	3,789549E+08
-1100	8,089740E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091521E+06	3,789229E+08	1,013290E+09	1,384216E+09	1,384216E+09	1,013282E+09	3,788914E+08
-1099	8,089774E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087509E+06	3,789225E+08	1,013287E+09	1,384195E+09	1,384153E+09	1,013205E+09	3,788627E+08
-1098	8,085644E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087470E+06	3,788288E+08	1,013179E+09	1,384118E+09	1,384135E+09	1,013235E+09	3,789194E+08
-1097	8,092930E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091300E+06	3,788971E+08	1,013191E+09	1,384077E+09	1,384069E+09	1,013153E+09	3,788255E+08
-1096	8,087923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087313E+06	3,788565E+08	1,013155E+09	1,384039E+09	1,384035E+09	1,013148E+09	3,788639E+08
-1095	8,088802E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089595E+06	3,788207E+08	1,013114E+09	1,384013E+09	1,384034E+09	1,013169E+09	3,788867E+08
-1094	8,093082E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091883E+06	3,788982E+08	1,013168E+09	1,384025E+09	1,383996E+09	1,013090E+09	3,788028E+08
-1093	8,087358E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086262E+06	3,788191E+08	1,013120E+09	1,384024E+09	1,384034E+09	1,013158E+09	3,788870E+08

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												
-1092	8,090733E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091554E+06	3,788473E+08	1,013141E+09	1,384044E+09	1,384060E+09	1,013174E+09	3,788648E+08
-1091	8,091168E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089418E+06	3,788996E+08	1,013206E+09	1,384095E+09	1,384069E+09	1,013145E+09	3,788298E+08
-1090	8,086602E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086567E+06	3,788280E+08	1,013165E+09	1,384100E+09	1,384132E+09	1,013244E+09	3,789207E+08
-1089	8,090417E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092927E+06	3,789129E+08	1,013238E+09	1,384140E+09	1,384143E+09	1,013228E+09	3,788632E+08
-1088	8,089030E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086125E+06	3,789133E+08	1,013283E+09	1,384197E+09	1,384176E+09	1,013243E+09	3,788906E+08
-1087	8,086567E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087981E+06	3,788563E+08	1,013251E+09	1,384216E+09	1,384236E+09	1,013312E+09	3,789457E+08
-1086	8,092104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090304E+06	3,789411E+08	1,013306E+09	1,384231E+09	1,384214E+09	1,013253E+09	3,788590E+08
-1085	8,087360E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,084675E+06	3,788817E+08	1,013270E+09	1,384219E+09	1,384225E+09	1,013291E+09	3,789223E+08
-1084	8,087154E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090623E+06	3,788785E+08	1,013246E+09	1,384189E+09	1,384212E+09	1,013296E+09	3,789197E+08
-1083	8,091912E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089054E+06	3,789419E+08	1,013293E+09	1,384192E+09	1,384155E+09	1,013205E+09	3,788442E+08
-1082	8,085217E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086990E+06	3,788481E+08	1,013204E+09	1,384133E+09	1,384141E+09	1,013238E+09	3,789187E+08
-1081	8,090661E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091322E+06	3,788774E+08	1,013184E+09	1,384081E+09	1,384083E+09	1,013183E+09	3,788589E+08
-1080	8,090983E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087958E+06	3,788823E+08	1,013178E+09	1,384051E+09	1,384023E+09	1,013115E+09	3,788308E+08
-1079	8,087001E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087940E+06	3,787907E+08	1,013076E+09	1,383982E+09	1,384007E+09	1,013146E+09	3,788874E+08
-1078	8,093811E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092473E+06	3,788660E+08	1,013095E+09	1,383937E+09	1,383928E+09	1,013054E+09	3,787903E+08
-1077	8,088547E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088442E+06	3,788293E+08	1,013073E+09	1,383919E+09	1,383903E+09	1,013046E+09	3,788273E+08
-1076	8,089237E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090399E+06	3,787893E+08	1,013029E+09	1,383898E+09	1,383917E+09	1,013080E+09	3,788530E+08
-1075	8,093420E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092726E+06	3,788679E+08	1,013091E+09	1,383924E+09	1,383892E+09	1,013010E+09	3,787719E+08
-1074	8,087934E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086939E+06	3,787903E+08	1,013039E+09	1,383917E+09	1,383930E+09	1,013081E+09	3,788560E+08
-1073	8,090889E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091920E+06	3,788129E+08	1,013047E+09	1,383921E+09	1,383947E+09	1,013100E+09	3,788395E+08
-1072	8,091716E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090188E+06	3,788767E+08	1,013126E+09	1,383976E+09	1,383958E+09	1,013074E+09	3,788081E+08
-1071	8,087597E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086928E+06	3,788029E+08	1,013100E+09	1,384004E+09	1,384029E+09	1,013169E+09	3,788984E+08
-1070	8,091418E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093133E+06	3,788829E+08	1,013165E+09	1,384039E+09	1,384033E+09	1,013144E+09	3,788366E+08
-1069	8,090180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086351E+06	3,788819E+08	1,013206E+09	1,384098E+09	1,384071E+09	1,013157E+09	3,788585E+08
-1068	8,087100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088626E+06	3,788231E+08	1,013162E+09	1,384103E+09	1,384130E+09	1,013234E+09	3,789134E+08
-1067	8,092359E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091565E+06	3,789173E+08	1,013229E+09	1,384122E+09	1,384104E+09	1,013174E+09	3,788275E+08
-1066	8,087516E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086256E+06	3,788619E+08	1,013196E+09	1,384106E+09	1,384105E+09	1,013203E+09	3,788887E+08
-1065	8,087365E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091026E+06	3,788443E+08	1,013156E+09	1,384065E+09	1,384084E+09	1,013204E+09	3,788905E+08
-1064	8,092835E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089551E+06	3,789069E+08	1,013198E+09	1,384062E+09	1,384029E+09	1,013115E+09	3,788156E+08
-1063	8,086675E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086956E+06	3,788045E+08	1,013102E+09	1,384004E+09	1,384015E+09	1,013144E+09	3,788854E+08
-1062	8,091867E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091678E+06	3,788332E+08	1,013070E+09	1,383930E+09	1,383937E+09	1,013079E+09	3,788208E+08
-1061	8,091711E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089132E+06	3,788477E+08	1,013072E+09	1,383904E+09	1,383875E+09	1,013005E+09	3,787890E+08
-1060	8,087319E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089200E+06	3,787602E+08	1,012977E+09	1,383839E+09	1,383865E+09	1,013045E+09	3,788493E+08
-1059	8,094030E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093983E+06	3,788416E+08	1,013020E+09	1,383823E+09	1,383799E+09	1,012959E+09	3,787573E+08
-1058	8,089208E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089380E+06	3,788010E+08	1,012995E+09	1,383812E+09	1,383787E+09	1,012955E+09	3,787940E+08
-1057	8,089945E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090211E+06	3,787466E+08	1,012931E+09	1,383780E+09	1,383805E+09	1,012999E+09	3,788260E+08

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												
-1056	8,094328E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093223E+06	3,788334E+08	1,012994E+09	1,383800E+09	1,383784E+09	1,012940E+09	3,787481E+08
-1055	8,089092E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087259E+06	3,787604E+08	1,012956E+09	1,383803E+09	1,383822E+09	1,013007E+09	3,788309E+08
-1054	8,091538E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092711E+06	3,787875E+08	1,012970E+09	1,383805E+09	1,383826E+09	1,013015E+09	3,788132E+08
-1053	8,092538E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090887E+06	3,788542E+08	1,013061E+09	1,383879E+09	1,383847E+09	1,012985E+09	3,787780E+08
-1052	8,088165E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087459E+06	3,787752E+08	1,013029E+09	1,383912E+09	1,383932E+09	1,013092E+09	3,788683E+08
-1051	8,091827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093818E+06	3,788562E+08	1,013100E+09	1,383953E+09	1,383942E+09	1,013071E+09	3,788079E+08
-1050	8,090689E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087229E+06	3,788547E+08	1,013129E+09	1,383998E+09	1,383974E+09	1,013082E+09	3,788262E+08
-1049	8,087069E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089099E+06	3,787892E+08	1,013066E+09	1,383977E+09	1,384015E+09	1,013157E+09	3,788864E+08
-1048	8,092842E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092451E+06	3,788896E+08	1,013138E+09	1,383990E+09	1,383982E+09	1,013093E+09	3,788028E+08
-1047	8,088637E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,086779E+06	3,788296E+08	1,013110E+09	1,383984E+09	1,383979E+09	1,013112E+09	3,788605E+08
-1046	8,088621E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091245E+06	3,788042E+08	1,013055E+09	1,383929E+09	1,383942E+09	1,013098E+09	3,788575E+08
-1045	8,094180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090056E+06	3,788669E+08	1,013095E+09	1,383927E+09	1,383889E+09	1,013005E+09	3,787761E+08
-1044	8,087444E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087867E+06	3,787672E+08	1,012996E+09	1,383864E+09	1,383880E+09	1,013043E+09	3,788438E+08
-1043	8,092067E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093215E+06	3,788076E+08	1,012985E+09	1,383803E+09	1,383802E+09	1,012979E+09	3,787821E+08
-1042	8,091821E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090866E+06	3,788258E+08	1,012995E+09	1,383786E+09	1,383747E+09	1,012907E+09	3,787507E+08
-1041	8,087625E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089707E+06	3,787263E+08	1,012887E+09	1,383718E+09	1,383741E+09	1,012954E+09	3,788191E+08
-1040	8,094820E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094516E+06	3,788052E+08	1,012924E+09	1,383701E+09	1,383688E+09	1,012879E+09	3,787332E+08
-1039	8,090856E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089233E+06	3,787582E+08	1,012897E+09	1,383693E+09	1,383677E+09	1,012876E+09	3,787678E+08
-1038	8,091201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090339E+06	3,787034E+08	1,012820E+09	1,383639E+09	1,383675E+09	1,012910E+09	3,787968E+08
-1037	8,095180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094015E+06	3,788020E+08	1,012900E+09	1,383668E+09	1,383652E+09	1,012845E+09	3,787151E+08
-1036	8,089522E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088202E+06	3,787368E+08	1,012878E+09	1,383686E+09	1,383701E+09	1,012920E+09	3,787977E+08
-1035	8,091626E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093994E+06	3,787713E+08	1,012917E+09	1,383718E+09	1,383720E+09	1,012931E+09	3,787833E+08
-1034	8,093038E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091781E+06	3,788341E+08	1,013003E+09	1,383800E+09	1,383758E+09	1,012909E+09	3,787472E+08
-1033	8,088561E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087617E+06	3,787421E+08	1,012949E+09	1,383816E+09	1,383843E+09	1,013024E+09	3,788424E+08
-1032	8,092351E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094550E+06	3,788275E+08	1,013013E+09	1,383845E+09	1,383851E+09	1,013010E+09	3,787869E+08
-1031	8,091709E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087821E+06	3,788265E+08	1,013049E+09	1,383888E+09	1,383870E+09	1,013011E+09	3,788012E+08
-1030	8,087614E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089772E+06	3,787591E+08	1,012978E+09	1,383850E+09	1,383885E+09	1,013067E+09	3,788588E+08
-1029	8,093827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093018E+06	3,788585E+08	1,013053E+09	1,383870E+09	1,383850E+09	1,012992E+09	3,787690E+08
-1028	8,089367E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087351E+06	3,787939E+08	1,013016E+09	1,383859E+09	1,383852E+09	1,013013E+09	3,788228E+08
-1027	8,089296E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092094E+06	3,787719E+08	1,012968E+09	1,383807E+09	1,383814E+09	1,012998E+09	3,788190E+08
-1026	8,094714E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091413E+06	3,788353E+08	1,012999E+09	1,383796E+09	1,383759E+09	1,012905E+09	3,787345E+08
-1025	8,087588E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088656E+06	3,787311E+08	1,012891E+09	1,383720E+09	1,383742E+09	1,012947E+09	3,788088E+08
-1024	8,092622E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094258E+06	3,787764E+08	1,012888E+09	1,383666E+09	1,383672E+09	1,012890E+09	3,787552E+08
-1023	8,093230E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091211E+06	3,787873E+08	1,012902E+09	1,383663E+09	1,383622E+09	1,012815E+09	3,787227E+08
-1022	8,089201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089595E+06	3,786805E+08	1,012777E+09	1,383579E+09	1,383605E+09	1,012856E+09	3,787899E+08
-1021	8,096375E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094807E+06	3,787614E+08	1,012815E+09	1,383564E+09	1,383554E+09	1,012779E+09	3,786985E+08

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												
-1020	8,091739E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090082E+06	3,787234E+08	1,012793E+09	1,383555E+09	1,383548E+09	1,012784E+09	3,787304E+08
-1019	8,091387E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091996E+06	3,786857E+08	1,012749E+09	1,383523E+09	1,383550E+09	1,012818E+09	3,787609E+08
-1018	8,095080E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095741E+06	3,787883E+08	1,012841E+09	1,383572E+09	1,383543E+09	1,012758E+09	3,786801E+08
-1017	8,089555E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088750E+06	3,787134E+08	1,012813E+09	1,383595E+09	1,383605E+09	1,012845E+09	3,787696E+08
-1016	8,091967E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094594E+06	3,787453E+08	1,012847E+09	1,383631E+09	1,383641E+09	1,012870E+09	3,787630E+08
-1015	8,094345E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091613E+06	3,787998E+08	1,012926E+09	1,383710E+09	1,383677E+09	1,012849E+09	3,787250E+08
-1014	8,089442E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087826E+06	3,787055E+08	1,012852E+09	1,383693E+09	1,383733E+09	1,012950E+09	3,788182E+08
-1013	8,093168E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095081E+06	3,787960E+08	1,012923E+09	1,383718E+09	1,383726E+09	1,012924E+09	3,787585E+08
-1012	8,092329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088674E+06	3,787987E+08	1,012963E+09	1,383764E+09	1,383744E+09	1,012922E+09	3,787696E+08
-1011	8,088096E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090845E+06	3,787361E+08	1,012908E+09	1,383739E+09	1,383758E+09	1,012967E+09	3,788247E+08
-1010	8,094585E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093874E+06	3,788290E+08	1,012972E+09	1,383760E+09	1,383732E+09	1,012895E+09	3,787315E+08
-1009	8,089903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,087826E+06	3,787566E+08	1,012917E+09	1,383732E+09	1,383731E+09	1,012922E+09	3,787863E+08
-1008	8,089845E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093053E+06	3,787396E+08	1,012867E+09	1,383676E+09	1,383696E+09	1,012914E+09	3,787886E+08
-1007	8,095760E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092213E+06	3,788028E+08	1,012907E+09	1,383669E+09	1,383635E+09	1,012817E+09	3,787038E+08
-1006	8,088503E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089242E+06	3,786938E+08	1,012789E+09	1,383580E+09	1,383599E+09	1,012846E+09	3,787781E+08
-1005	8,093991E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094661E+06	3,787369E+08	1,012788E+09	1,383533E+09	1,383533E+09	1,012785E+09	3,787213E+08
-1004	8,094318E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091830E+06	3,787456E+08	1,012794E+09	1,383525E+09	1,383491E+09	1,012718E+09	3,786857E+08
-1003	8,090037E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090617E+06	3,786484E+08	1,012683E+09	1,383445E+09	1,383471E+09	1,012756E+09	3,787499E+08
-1002	8,096548E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096337E+06	3,787332E+08	1,012720E+09	1,383431E+09	1,383424E+09	1,012682E+09	3,786572E+08
-1001	8,091560E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091146E+06	3,786973E+08	1,012704E+09	1,383424E+09	1,383419E+09	1,012694E+09	3,786952E+08
-1000	8,091443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093222E+06	3,786655E+08	1,012677E+09	1,383416E+09	1,383443E+09	1,012739E+09	3,787362E+08
-999	8,096156E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095963E+06	3,787603E+08	1,012776E+09	1,383485E+09	1,383450E+09	1,012687E+09	3,786584E+08
-998	8,090915E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088446E+06	3,786762E+08	1,012729E+09	1,383494E+09	1,383506E+09	1,012772E+09	3,787480E+08
-997	8,093340E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094626E+06	3,787092E+08	1,012762E+09	1,383525E+09	1,383540E+09	1,012797E+09	3,787376E+08
-996	8,095154E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092082E+06	3,787682E+08	1,012838E+09	1,383594E+09	1,383573E+09	1,012778E+09	3,786958E+08
-995	8,089698E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089230E+06	3,786894E+08	1,012786E+09	1,383583E+09	1,383616E+09	1,012866E+09	3,787864E+08
-994	8,093249E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096386E+06	3,787762E+08	1,012854E+09	1,383615E+09	1,383614E+09	1,012836E+09	3,787239E+08
-993	8,092497E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089228E+06	3,787695E+08	1,012883E+09	1,383654E+09	1,383630E+09	1,012836E+09	3,787378E+08
-992	8,088676E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091506E+06	3,787043E+08	1,012821E+09	1,383629E+09	1,383654E+09	1,012887E+09	3,787973E+08
-991	8,096008E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093943E+06	3,787892E+08	1,012876E+09	1,383640E+09	1,383620E+09	1,012814E+09	3,787021E+08
-990	8,090864E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,088226E+06	3,787153E+08	1,012805E+09	1,383584E+09	1,383591E+09	1,012826E+09	3,787538E+08
-989	8,090905E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093697E+06	3,787041E+08	1,012765E+09	1,383528E+09	1,383547E+09	1,012810E+09	3,787526E+08
-988	8,096399E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093266E+06	3,787686E+08	1,012808E+09	1,383528E+09	1,383492E+09	1,012715E+09	3,786668E+08
-987	8,089252E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090556E+06	3,786669E+08	1,012703E+09	1,383450E+09	1,383457E+09	1,012737E+09	3,787388E+08
-986	8,094760E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095741E+06	3,787023E+08	1,012692E+09	1,383406E+09	1,383403E+09	1,012682E+09	3,786798E+08
-985	8,094680E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092776E+06	3,787084E+08	1,012688E+09	1,383385E+09	1,383359E+09	1,012624E+09	3,786478E+08



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												
-984	8,090391E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091863E+06	3,786207E+08	1,012587E+09	1,383315E+09	1,383350E+09	1,012670E+09	3,787186E+08
-983	8,097239E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097101E+06	3,787059E+08	1,012642E+09	1,383317E+09	1,383308E+09	1,012600E+09	3,786296E+08
-982	8,092356E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091416E+06	3,786667E+08	1,012623E+09	1,383310E+09	1,383300E+09	1,012607E+09	3,786691E+08
-981	8,092674E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093221E+06	3,786324E+08	1,012601E+09	1,383316E+09	1,383335E+09	1,012657E+09	3,787098E+08
-980	8,097182E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096053E+06	3,787240E+08	1,012692E+09	1,383383E+09	1,383356E+09	1,012618E+09	3,786325E+08
-979	8,091888E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089257E+06	3,786501E+08	1,012652E+09	1,383387E+09	1,383401E+09	1,012695E+09	3,787165E+08
-978	8,093435E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095759E+06	3,786834E+08	1,012680E+09	1,383413E+09	1,383433E+09	1,012719E+09	3,787042E+08
-977	8,094997E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092960E+06	3,787435E+08	1,012756E+09	1,383474E+09	1,383456E+09	1,012699E+09	3,786659E+08
-976	8,089716E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090346E+06	3,786682E+08	1,012713E+09	1,383478E+09	1,383509E+09	1,012788E+09	3,787620E+08
-975	8,094347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096418E+06	3,787447E+08	1,012780E+09	1,383516E+09	1,383510E+09	1,012758E+09	3,786999E+08
-974	8,093789E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,089108E+06	3,787297E+08	1,012786E+09	1,383531E+09	1,383511E+09	1,012748E+09	3,787098E+08
-973	8,090097E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091825E+06	3,786670E+08	1,012725E+09	1,383501E+09	1,383527E+09	1,012795E+09	3,787629E+08
-972	8,096668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094865E+06	3,787566E+08	1,012780E+09	1,383505E+09	1,383491E+09	1,012724E+09	3,786668E+08
-971	8,091193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090045E+06	3,786964E+08	1,012728E+09	1,383456E+09	1,383452E+09	1,012722E+09	3,787130E+08
-970	8,091052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095070E+06	3,786784E+08	1,012683E+09	1,383408E+09	1,383417E+09	1,012707E+09	3,787116E+08
-969	8,096524E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094140E+06	3,787329E+08	1,012711E+09	1,383398E+09	1,383362E+09	1,012618E+09	3,786301E+08
-968	8,089872E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091418E+06	3,786305E+08	1,012601E+09	1,383321E+09	1,383337E+09	1,012647E+09	3,787081E+08
-967	8,096151E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095926E+06	3,786587E+08	1,012584E+09	1,383270E+09	1,383277E+09	1,012594E+09	3,786490E+08
-966	8,095588E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093112E+06	3,786657E+08	1,012571E+09	1,383230E+09	1,383212E+09	1,012526E+09	3,786174E+08
-965	8,091691E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092195E+06	3,785864E+08	1,012493E+09	1,383176E+09	1,383205E+09	1,012569E+09	3,786858E+08
-964	8,097969E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097612E+06	3,786719E+08	1,012556E+09	1,383196E+09	1,383181E+09	1,012510E+09	3,786002E+08
-963	8,093474E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092216E+06	3,786425E+08	1,012552E+09	1,383206E+09	1,383184E+09	1,012516E+09	3,786357E+08
-962	8,093412E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094033E+06	3,786033E+08	1,012523E+09	1,383218E+09	1,383237E+09	1,012577E+09	3,786748E+08
-961	8,097271E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096863E+06	3,786938E+08	1,012604E+09	1,383271E+09	1,383255E+09	1,012548E+09	3,786025E+08
-960	8,091968E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090609E+06	3,786301E+08	1,012576E+09	1,383284E+09	1,383306E+09	1,012628E+09	3,786925E+08
-959	8,093881E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096340E+06	3,786589E+08	1,012611E+09	1,383314E+09	1,383333E+09	1,012650E+09	3,786818E+08
-958	8,095654E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093063E+06	3,787126E+08	1,012677E+09	1,383364E+09	1,383341E+09	1,012618E+09	3,786429E+08
-957	8,090937E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090402E+06	3,786362E+08	1,012636E+09	1,383372E+09	1,383394E+09	1,012702E+09	3,787329E+08
-956	8,095196E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096567E+06	3,787081E+08	1,012692E+09	1,383402E+09	1,383400E+09	1,012677E+09	3,786700E+08
-955	8,094626E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090345E+06	3,787052E+08	1,012703E+09	1,383409E+09	1,383386E+09	1,012654E+09	3,786707E+08
-954	8,090176E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093280E+06	3,786415E+08	1,012637E+09	1,383376E+09	1,383400E+09	1,012699E+09	3,787211E+08
-953	8,096383E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096066E+06	3,787287E+08	1,012689E+09	1,383373E+09	1,383356E+09	1,012630E+09	3,786318E+08
-952	8,091424E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091358E+06	3,786680E+08	1,012641E+09	1,383339E+09	1,383330E+09	1,012629E+09	3,786841E+08
-951	8,092466E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094989E+06	3,786365E+08	1,012588E+09	1,383288E+09	1,383297E+09	1,012620E+09	3,786842E+08
-950	8,097961E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094067E+06	3,786831E+08	1,012592E+09	1,383250E+09	1,383224E+09	1,012522E+09	3,786009E+08
-949	8,091573E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091579E+06	3,785872E+08	1,012488E+09	1,383169E+09	1,383188E+09	1,012544E+09	3,786721E+08

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	8,097011E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096637E+06	3,786213E+08	1,012478E+09	1,383122E+09	1,383133E+09	1,012496E+09	3,786145E+08
-947	8,096208E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094776E+06	3,786452E+08	1,012491E+09	1,383099E+09	1,383067E+09	1,012416E+09	3,785761E+08
-946	8,092030E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093363E+06	3,785619E+08	1,012418E+09	1,383068E+09	1,383085E+09	1,012471E+09	3,786447E+08
-945	8,097903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098493E+06	3,786418E+08	1,012475E+09	1,383089E+09	1,383074E+09	1,012428E+09	3,785689E+08
-944	8,093974E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093083E+06	3,786127E+08	1,012471E+09	1,383110E+09	1,383095E+09	1,012446E+09	3,786103E+08
-943	8,094289E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094297E+06	3,785694E+08	1,012438E+09	1,383112E+09	1,383142E+09	1,012513E+09	3,786512E+08
-942	8,097725E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097136E+06	3,786592E+08	1,012509E+09	1,383142E+09	1,383136E+09	1,012472E+09	3,785800E+08
-941	8,092922E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,090967E+06	3,786035E+08	1,012499E+09	1,383165E+09	1,383179E+09	1,012542E+09	3,786658E+08
-940	8,094433E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096681E+06	3,786286E+08	1,012535E+09	1,383207E+09	1,383219E+09	1,012568E+09	3,786574E+08
-939	8,096779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093919E+06	3,786902E+08	1,012608E+09	1,383261E+09	1,383226E+09	1,012526E+09	3,786097E+08
-938	8,091620E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091327E+06	3,786087E+08	1,012560E+09	1,383270E+09	1,383290E+09	1,012615E+09	3,786939E+08
-937	8,095133E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097519E+06	3,786795E+08	1,012605E+09	1,383286E+09	1,383288E+09	1,012596E+09	3,786367E+08
-936	8,094697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091856E+06	3,786830E+08	1,012626E+09	1,383303E+09	1,383279E+09	1,012573E+09	3,786415E+08
-935	8,090813E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093827E+06	3,786118E+08	1,012559E+09	1,383267E+09	1,383288E+09	1,012618E+09	3,786943E+08
-934	8,097243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095993E+06	3,786861E+08	1,012588E+09	1,383242E+09	1,383226E+09	1,012538E+09	3,786070E+08
-933	8,093174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091354E+06	3,786240E+08	1,012537E+09	1,383201E+09	1,383191E+09	1,012531E+09	3,786530E+08
-932	8,093932E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094998E+06	3,785868E+08	1,012468E+09	1,383138E+09	1,383157E+09	1,012522E+09	3,786514E+08
-931	8,099109E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095446E+06	3,786486E+08	1,012481E+09	1,383092E+09	1,383066E+09	1,012407E+09	3,785571E+08
-930	8,091945E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093091E+06	3,785584E+08	1,012388E+09	1,383021E+09	1,383037E+09	1,012429E+09	3,786230E+08
-929	8,096593E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098010E+06	3,785938E+08	1,012388E+09	1,382985E+09	1,382988E+09	1,012390E+09	3,785753E+08
-928	8,096330E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096166E+06	3,786202E+08	1,012416E+09	1,382996E+09	1,382954E+09	1,012325E+09	3,785457E+08
-927	8,093255E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093511E+06	3,785275E+08	1,012339E+09	1,382970E+09	1,382987E+09	1,012395E+09	3,786186E+08
-926	8,098872E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098560E+06	3,786002E+08	1,012376E+09	1,382969E+09	1,382965E+09	1,012354E+09	3,785474E+08
-925	8,095454E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093331E+06	3,785794E+08	1,012382E+09	1,382988E+09	1,382980E+09	1,012371E+09	3,785839E+08
-924	8,094857E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094830E+06	3,785390E+08	1,012354E+09	1,382995E+09	1,383030E+09	1,012438E+09	3,786266E+08
-923	8,098268E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098378E+06	3,786414E+08	1,012441E+09	1,383034E+09	1,383016E+09	1,012381E+09	3,785472E+08
-922	8,093267E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091840E+06	3,785820E+08	1,012435E+09	1,383072E+09	1,383075E+09	1,012454E+09	3,786283E+08
-921	8,094308E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097379E+06	3,786013E+08	1,012461E+09	1,383109E+09	1,383118E+09	1,012490E+09	3,786282E+08
-920	8,097338E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094852E+06	3,786631E+08	1,012533E+09	1,383171E+09	1,383137E+09	1,012455E+09	3,785838E+08
-919	8,092484E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091783E+06	3,785769E+08	1,012477E+09	1,383166E+09	1,383193E+09	1,012546E+09	3,786677E+08
-918	8,095641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097746E+06	3,786434E+08	1,012508E+09	1,383154E+09	1,383164E+09	1,012515E+09	3,786135E+08
-917	8,095919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092175E+06	3,786489E+08	1,012536E+09	1,383172E+09	1,383143E+09	1,012481E+09	3,786126E+08
-916	8,091843E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093891E+06	3,785705E+08	1,012460E+09	1,383137E+09	1,383157E+09	1,012525E+09	3,786665E+08
-915	8,098744E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096904E+06	3,786505E+08	1,012487E+09	1,383103E+09	1,383083E+09	1,012427E+09	3,785672E+08
-914	8,094045E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092602E+06	3,785883E+08	1,012431E+09	1,383059E+09	1,383050E+09	1,012420E+09	3,786052E+08
-913	8,093971E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096426E+06	3,785553E+08	1,012361E+09	1,382987E+09	1,383009E+09	1,012416E+09	3,786098E+08

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	8,099075E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097392E+06	3,786247E+08	1,012394E+09	1,382966E+09	1,382932E+09	1,012306E+09	3,785205E+08
-911	8,092549E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093888E+06	3,785303E+08	1,012309E+09	1,382908E+09	1,382915E+09	1,012337E+09	3,785891E+08
-910	8,097145E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098106E+06	3,785546E+08	1,012294E+09	1,382864E+09	1,382867E+09	1,012300E+09	3,785494E+08
-909	8,097874E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096134E+06	3,785804E+08	1,012323E+09	1,382877E+09	1,382838E+09	1,012241E+09	3,785180E+08
-908	8,094620E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093480E+06	3,784842E+08	1,012236E+09	1,382847E+09	1,382876E+09	1,012319E+09	3,785933E+08
-907	8,099861E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099769E+06	3,785705E+08	1,012280E+09	1,382836E+09	1,382837E+09	1,012263E+09	3,785137E+08
-906	8,095892E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094488E+06	3,785549E+08	1,012298E+09	1,382865E+09	1,382856E+09	1,012278E+09	3,785454E+08
-905	8,094549E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095901E+06	3,785155E+08	1,012277E+09	1,382880E+09	1,382909E+09	1,012351E+09	3,785961E+08
-904	8,098552E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099327E+06	3,786181E+08	1,012377E+09	1,382950E+09	1,382922E+09	1,012304E+09	3,785224E+08
-903	8,094441E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091947E+06	3,785528E+08	1,012366E+09	1,382988E+09	1,382991E+09	1,012386E+09	3,786026E+08
-902	8,095026E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097375E+06	3,785642E+08	1,012371E+09	1,382998E+09	1,383018E+09	1,012419E+09	3,786066E+08
-901	8,098702E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095208E+06	3,786336E+08	1,012449E+09	1,383053E+09	1,383026E+09	1,012381E+09	3,785577E+08
-900	8,093173E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,092411E+06	3,785466E+08	1,012392E+09	1,383047E+09	1,383076E+09	1,012466E+09	3,786412E+08
-899	8,096420E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098924E+06	3,786186E+08	1,012427E+09	1,383032E+09	1,383031E+09	1,012415E+09	3,785784E+08
-898	8,096548E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093252E+06	3,786188E+08	1,012449E+09	1,383052E+09	1,383018E+09	1,012379E+09	3,785701E+08
-897	8,091957E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094762E+06	3,785351E+08	1,012358E+09	1,383003E+09	1,383026E+09	1,012427E+09	3,786294E+08
-896	8,099314E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098151E+06	3,786156E+08	1,012387E+09	1,382977E+09	1,382958E+09	1,012332E+09	3,785316E+08
-895	8,094776E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093558E+06	3,785544E+08	1,012329E+09	1,382922E+09	1,382917E+09	1,012324E+09	3,785674E+08
-894	8,094362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096907E+06	3,785180E+08	1,012256E+09	1,382837E+09	1,382860E+09	1,012312E+09	3,785781E+08
-893	8,100244E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097894E+06	3,785898E+08	1,012301E+09	1,382829E+09	1,382789E+09	1,012205E+09	3,784893E+08
-892	8,093915E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093877E+06	3,784886E+08	1,012213E+09	1,382785E+09	1,382791E+09	1,012246E+09	3,785611E+08
-891	8,098718E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098859E+06	3,785182E+08	1,012196E+09	1,382736E+09	1,382739E+09	1,012202E+09	3,785146E+08
-890	8,098911E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097116E+06	3,785458E+08	1,012225E+09	1,382750E+09	1,382719E+09	1,012150E+09	3,784771E+08
-889	8,094672E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094743E+06	3,784570E+08	1,012142E+09	1,382716E+09	1,382753E+09	1,012234E+09	3,785596E+08
-888	8,099755E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101350E+06	3,785495E+08	1,012208E+09	1,382734E+09	1,382728E+09	1,012181E+09	3,784845E+08
-887	8,096400E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095056E+06	3,785316E+08	1,012232E+09	1,382772E+09	1,382756E+09	1,012203E+09	3,785174E+08
-886	8,094961E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095902E+06	3,784829E+08	1,012199E+09	1,382778E+09	1,382807E+09	1,012276E+09	3,785752E+08
-885	8,099965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099208E+06	3,785846E+08	1,012298E+09	1,382844E+09	1,382821E+09	1,012234E+09	3,784998E+08
-884	8,095719E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,091984E+06	3,785168E+08	1,012278E+09	1,382879E+09	1,382892E+09	1,012318E+09	3,785785E+08
-883	8,095847E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098627E+06	3,785398E+08	1,012285E+09	1,382874E+09	1,382896E+09	1,012330E+09	3,785724E+08
-882	8,098991E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096349E+06	3,786102E+08	1,012370E+09	1,382934E+09	1,382903E+09	1,012287E+09	3,785176E+08
-881	8,092874E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093593E+06	3,785219E+08	1,012310E+09	1,382928E+09	1,382950E+09	1,012373E+09	3,786083E+08
-880	8,096922E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099810E+06	3,785879E+08	1,012347E+09	1,382930E+09	1,382920E+09	1,012325E+09	3,785486E+08
-879	8,097726E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093773E+06	3,785827E+08	1,012357E+09	1,382936E+09	1,382906E+09	1,012294E+09	3,785376E+08
-878	8,092784E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095018E+06	3,784935E+08	1,012248E+09	1,382858E+09	1,382891E+09	1,012333E+09	3,785995E+08
-877	8,100636E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098748E+06	3,785803E+08	1,012284E+09	1,382828E+09	1,382814E+09	1,012236E+09	3,784989E+08

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°
-876	8,095687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094157E+06	3,785188E+08	1,012232E+09	1,382785E+09	1,382778E+09	1,012225E+09	3,785339E+08
-875	8,095433E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097887E+06	3,784868E+08	1,012163E+09	1,382703E+09	1,382715E+09	1,012200E+09	3,785377E+08
-874	8,101034E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098755E+06	3,785540E+08	1,012207E+09	1,382704E+09	1,382661E+09	1,012101E+09	3,784468E+08
-873	8,094426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094747E+06	3,784514E+08	1,012110E+09	1,382652E+09	1,382665E+09	1,012153E+09	3,785256E+08
-872	8,099320E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100095E+06	3,784838E+08	1,012101E+09	1,382617E+09	1,382624E+09	1,012117E+09	3,784827E+08
-871	8,099533E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098180E+06	3,785161E+08	1,012132E+09	1,382624E+09	1,382601E+09	1,012069E+09	3,784447E+08
-870	8,094847E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095156E+06	3,784254E+08	1,012050E+09	1,382581E+09	1,382621E+09	1,012146E+09	3,785336E+08
-869	8,100657E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101571E+06	3,785192E+08	1,012129E+09	1,382615E+09	1,382607E+09	1,012099E+09	3,784603E+08
-868	8,097711E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094905E+06	3,784975E+08	1,012153E+09	1,382670E+09	1,382653E+09	1,012125E+09	3,784935E+08
-867	8,096262E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096652E+06	3,784547E+08	1,012119E+09	1,382670E+09	1,382697E+09	1,012190E+09	3,785433E+08
-866	8,100720E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100126E+06	3,785592E+08	1,012220E+09	1,382739E+09	1,382719E+09	1,012154E+09	3,784643E+08
-865	8,095650E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093333E+06	3,784968E+08	1,012203E+09	1,382768E+09	1,382783E+09	1,012241E+09	3,785470E+08
-864	8,095714E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099987E+06	3,785210E+08	1,012224E+09	1,382786E+09	1,382797E+09	1,012254E+09	3,785441E+08
-863	8,099434E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096900E+06	3,785843E+08	1,012301E+09	1,382841E+09	1,382805E+09	1,012211E+09	3,784881E+08
-862	8,093276E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093593E+06	3,784847E+08	1,012219E+09	1,382809E+09	1,382835E+09	1,012290E+09	3,785839E+08
-861	8,098443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099666E+06	3,785461E+08	1,012245E+09	1,382797E+09	1,382798E+09	1,012244E+09	3,785221E+08
-860	8,099131E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094075E+06	3,785399E+08	1,012246E+09	1,382793E+09	1,382774E+09	1,012204E+09	3,785070E+08
-859	8,093903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096227E+06	3,784614E+08	1,012141E+09	1,382701E+09	1,382734E+09	1,012220E+09	3,785574E+08
-858	8,101167E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099895E+06	3,785492E+08	1,012188E+09	1,382683E+09	1,382662E+09	1,012120E+09	3,784534E+08
-857	8,095746E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095349E+06	3,784877E+08	1,012139E+09	1,382650E+09	1,382635E+09	1,012116E+09	3,784942E+08
-856	8,096138E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098844E+06	3,784533E+08	1,012077E+09	1,382593E+09	1,382596E+09	1,012103E+09	3,785020E+08
-855	8,101913E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099580E+06	3,785170E+08	1,012110E+09	1,382583E+09	1,382548E+09	1,012017E+09	3,784127E+08
-854	8,095107E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095286E+06	3,784138E+08	1,012002E+09	1,382510E+09	1,382535E+09	1,012067E+09	3,784978E+08
-853	8,100352E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100735E+06	3,784505E+08	1,012003E+09	1,382475E+09	1,382492E+09	1,012033E+09	3,784554E+08
-852	8,100419E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098647E+06	3,784834E+08	1,012044E+09	1,382500E+09	1,382475E+09	1,011983E+09	3,784179E+08
-851	8,095886E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095884E+06	3,783984E+08	1,011969E+09	1,382464E+09	1,382493E+09	1,012047E+09	3,784989E+08
-850	8,101280E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101987E+06	3,784884E+08	1,012052E+09	1,382511E+09	1,382498E+09	1,012010E+09	3,784254E+08
-849	8,098175E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095575E+06	3,784690E+08	1,012073E+09	1,382565E+09	1,382550E+09	1,012049E+09	3,784631E+08
-848	8,096664E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097832E+06	3,784306E+08	1,012049E+09	1,382580E+09	1,382604E+09	1,012119E+09	3,785143E+08
-847	8,100982E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101052E+06	3,785370E+08	1,012149E+09	1,382638E+09	1,382622E+09	1,012087E+09	3,784365E+08
-846	8,095776E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,093740E+06	3,784690E+08	1,012124E+09	1,382654E+09	1,382668E+09	1,012164E+09	3,785247E+08
-845	8,096664E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099889E+06	3,784868E+08	1,012142E+09	1,382672E+09	1,382685E+09	1,012179E+09	3,785226E+08
-844	8,100942E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096620E+06	3,785427E+08	1,012207E+09	1,382726E+09	1,382695E+09	1,012132E+09	3,784643E+08
-843	8,094756E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094315E+06	3,784489E+08	1,012117E+09	1,382672E+09	1,382701E+09	1,012190E+09	3,785470E+08
-842	8,099319E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100559E+06	3,785130E+08	1,012146E+09	1,382657E+09	1,382660E+09	1,012141E+09	3,784805E+08
-841	8,099135E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095745E+06	3,785149E+08	1,012153E+09	1,382652E+09	1,382629E+09	1,012099E+09	3,784660E+08



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	8,094024E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097759E+06	3,784381E+08	1,012067E+09	1,382590E+09	1,382604E+09	1,012118E+09	3,785175E+08
-839	8,101457E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100855E+06	3,785196E+08	1,012107E+09	1,382571E+09	1,382544E+09	1,012028E+09	3,784174E+08
-838	8,096233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095594E+06	3,784464E+08	1,012037E+09	1,382519E+09	1,382508E+09	1,012025E+09	3,784647E+08
-837	8,097647E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098845E+06	3,784081E+08	1,011966E+09	1,382451E+09	1,382471E+09	1,012021E+09	3,784747E+08
-836	8,103252E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100074E+06	3,784727E+08	1,011995E+09	1,382437E+09	1,382415E+09	1,011930E+09	3,783842E+08
-835	8,096230E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096333E+06	3,783816E+08	1,011896E+09	1,382354E+09	1,382379E+09	1,011959E+09	3,784601E+08
-834	8,100958E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101497E+06	3,784190E+08	1,011913E+09	1,382340E+09	1,382348E+09	1,011926E+09	3,784173E+08
-833	8,100700E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099499E+06	3,784542E+08	1,011961E+09	1,382381E+09	1,382348E+09	1,011887E+09	3,783847E+08
-832	8,096689E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096632E+06	3,783716E+08	1,011903E+09	1,382377E+09	1,382394E+09	1,011964E+09	3,784666E+08
-831	8,101804E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102768E+06	3,784615E+08	1,011979E+09	1,382420E+09	1,382410E+09	1,011943E+09	3,783970E+08
-830	8,098569E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096092E+06	3,784421E+08	1,011994E+09	1,382459E+09	1,382451E+09	1,011981E+09	3,784395E+08
-829	8,097278E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098412E+06	3,784058E+08	1,011975E+09	1,382473E+09	1,382505E+09	1,012056E+09	3,784932E+08
-828	8,101730E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101252E+06	3,785068E+08	1,012074E+09	1,382538E+09	1,382521E+09	1,012017E+09	3,784153E+08
-827	8,096768E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,094339E+06	3,784401E+08	1,012042E+09	1,382540E+09	1,382548E+09	1,012074E+09	3,784939E+08
-826	8,097458E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100085E+06	3,784503E+08	1,012053E+09	1,382555E+09	1,382567E+09	1,012088E+09	3,784885E+08
-825	8,101468E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097521E+06	3,785088E+08	1,012110E+09	1,382596E+09	1,382569E+09	1,012042E+09	3,784298E+08
-824	8,095177E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095853E+06	3,784234E+08	1,012034E+09	1,382554E+09	1,382575E+09	1,012094E+09	3,785070E+08
-823	8,099286E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101789E+06	3,784879E+08	1,012061E+09	1,382530E+09	1,382529E+09	1,012045E+09	3,784430E+08
-822	8,099179E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096462E+06	3,784836E+08	1,012064E+09	1,382521E+09	1,382489E+09	1,011999E+09	3,784341E+08
-821	8,095156E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097859E+06	3,783992E+08	1,011972E+09	1,382461E+09	1,382477E+09	1,012026E+09	3,784891E+08
-820	8,103052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100783E+06	3,784717E+08	1,011999E+09	1,382441E+09	1,382420E+09	1,011940E+09	3,783912E+08
-819	8,097967E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096387E+06	3,784046E+08	1,011921E+09	1,382367E+09	1,382363E+09	1,011921E+09	3,784286E+08
-818	8,098852E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099512E+06	3,783686E+08	1,011854E+09	1,382300E+09	1,382325E+09	1,011916E+09	3,784357E+08
-817	8,103473E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101550E+06	3,784423E+08	1,011896E+09	1,382291E+09	1,382267E+09	1,011826E+09	3,783468E+08
-816	8,096668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097590E+06	3,783577E+08	1,011823E+09	1,382243E+09	1,382250E+09	1,011855E+09	3,784200E+08
-815	8,101089E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102340E+06	3,783918E+08	1,011838E+09	1,382238E+09	1,382237E+09	1,011838E+09	3,783834E+08
-814	8,101101E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099767E+06	3,784208E+08	1,011877E+09	1,382272E+09	1,382240E+09	1,011808E+09	3,783584E+08
-813	8,097871E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096878E+06	3,783378E+08	1,011816E+09	1,382267E+09	1,382299E+09	1,011900E+09	3,784432E+08
-812	8,102696E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103268E+06	3,784287E+08	1,011892E+09	1,382309E+09	1,382311E+09	1,011878E+09	3,783764E+08
-811	8,099505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096966E+06	3,784167E+08	1,011911E+09	1,382336E+09	1,382328E+09	1,011895E+09	3,784097E+08
-810	8,097715E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098815E+06	3,783770E+08	1,011899E+09	1,382363E+09	1,382387E+09	1,011966E+09	3,784622E+08
-809	8,102021E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101838E+06	3,784764E+08	1,011994E+09	1,382430E+09	1,382407E+09	1,011931E+09	3,783859E+08
-808	8,097522E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095223E+06	3,784135E+08	1,011972E+09	1,382445E+09	1,382443E+09	1,011987E+09	3,784598E+08
-807	8,097833E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101085E+06	3,784233E+08	1,011971E+09	1,382445E+09	1,382461E+09	1,012008E+09	3,784568E+08
-806	8,101786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098412E+06	3,784806E+08	1,012020E+09	1,382468E+09	1,382444E+09	1,011956E+09	3,784005E+08
-805	8,095888E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096616E+06	3,783949E+08	1,011948E+09	1,382430E+09	1,382454E+09	1,012010E+09	3,784777E+08

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	8,100204E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102009E+06	3,784518E+08	1,011974E+09	1,382414E+09	1,382409E+09	1,011957E+09	3,784158E+08
-803	8,100407E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096939E+06	3,784444E+08	1,011964E+09	1,382389E+09	1,382353E+09	1,011894E+09	3,783987E+08
-802	8,096469E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097875E+06	3,783537E+08	1,011863E+09	1,382324E+09	1,382341E+09	1,011924E+09	3,784528E+08
-801	8,103901E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101755E+06	3,784288E+08	1,011882E+09	1,382289E+09	1,382277E+09	1,011840E+09	3,783553E+08
-800	8,098741E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098065E+06	3,783748E+08	1,011822E+09	1,382225E+09	1,382218E+09	1,011814E+09	3,783863E+08
-799	8,099006E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100920E+06	3,783414E+08	1,011760E+09	1,382160E+09	1,382182E+09	1,011813E+09	3,783963E+08
-798	8,103479E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102405E+06	3,784104E+08	1,011804E+09	1,382157E+09	1,382126E+09	1,011723E+09	3,783136E+08
-797	8,097686E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097784E+06	3,783233E+08	1,011734E+09	1,382127E+09	1,382135E+09	1,011769E+09	3,783903E+08
-796	8,102281E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102431E+06	3,783529E+08	1,011749E+09	1,382130E+09	1,382135E+09	1,011761E+09	3,783592E+08
-795	8,102423E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100490E+06	3,783890E+08	1,011785E+09	1,382151E+09	1,382125E+09	1,011724E+09	3,783283E+08
-794	8,098778E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097567E+06	3,783103E+08	1,011735E+09	1,382153E+09	1,382186E+09	1,011818E+09	3,784124E+08
-793	8,102684E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104534E+06	3,784059E+08	1,011818E+09	1,382200E+09	1,382199E+09	1,011799E+09	3,783492E+08
-792	8,099958E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098056E+06	3,783983E+08	1,011855E+09	1,382251E+09	1,382228E+09	1,011812E+09	3,783765E+08
-791	8,097675E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099424E+06	3,783506E+08	1,011829E+09	1,382270E+09	1,382292E+09	1,011891E+09	3,784331E+08
-790	8,102441E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101903E+06	3,784407E+08	1,011907E+09	1,382320E+09	1,382302E+09	1,011855E+09	3,783611E+08
-789	8,098626E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,095634E+06	3,783794E+08	1,011877E+09	1,382325E+09	1,382338E+09	1,011914E+09	3,784331E+08
-788	8,098767E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101550E+06	3,783893E+08	1,011877E+09	1,382320E+09	1,382341E+09	1,011926E+09	3,784317E+08
-787	8,102904E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099262E+06	3,784502E+08	1,011927E+09	1,382329E+09	1,382301E+09	1,011854E+09	3,783674E+08
-786	8,096873E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096902E+06	3,783585E+08	1,011857E+09	1,382302E+09	1,382316E+09	1,011905E+09	3,784416E+08
-785	8,100989E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102564E+06	3,784122E+08	1,011874E+09	1,382284E+09	1,382278E+09	1,011857E+09	3,783818E+08
-784	8,101526E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098157E+06	3,784102E+08	1,011871E+09	1,382265E+09	1,382227E+09	1,011792E+09	3,783566E+08
-783	8,096901E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099213E+06	3,783216E+08	1,011761E+09	1,382186E+09	1,382210E+09	1,011828E+09	3,784134E+08
-782	8,104061E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103062E+06	3,783964E+08	1,011777E+09	1,382140E+09	1,382131E+09	1,011738E+09	3,783198E+08
-781	8,099324E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099228E+06	3,783453E+08	1,011726E+09	1,382088E+09	1,382083E+09	1,011717E+09	3,783518E+08
-780	8,099872E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101331E+06	3,783064E+08	1,011670E+09	1,382037E+09	1,382054E+09	1,011718E+09	3,783668E+08
-779	8,104605E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102845E+06	3,783726E+08	1,011707E+09	1,382027E+09	1,381994E+09	1,011623E+09	3,782804E+08
-778	8,099070E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097741E+06	3,782835E+08	1,011640E+09	1,382007E+09	1,382017E+09	1,011679E+09	3,783566E+08
-777	8,102849E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103412E+06	3,783190E+08	1,011654E+09	1,382009E+09	1,382021E+09	1,011680E+09	3,783292E+08
-776	8,103001E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101871E+06	3,783681E+08	1,011713E+09	1,382043E+09	1,382014E+09	1,011640E+09	3,782930E+08
-775	8,098728E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098737E+06	3,782907E+08	1,011666E+09	1,382049E+09	1,382078E+09	1,011739E+09	3,783823E+08
-774	8,102677E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104960E+06	3,783763E+08	1,011741E+09	1,382094E+09	1,382089E+09	1,011720E+09	3,783250E+08
-773	8,101021E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098064E+06	3,783649E+08	1,011771E+09	1,382150E+09	1,382135E+09	1,011743E+09	3,783539E+08
-772	8,098956E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099445E+06	3,783141E+08	1,011741E+09	1,382164E+09	1,382195E+09	1,011822E+09	3,784122E+08
-771	8,103790E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102407E+06	3,784074E+08	1,011811E+09	1,382191E+09	1,382181E+09	1,011770E+09	3,783327E+08
-770	8,099644E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,096277E+06	3,783514E+08	1,011794E+09	1,382203E+09	1,382211E+09	1,011822E+09	3,783988E+08
-769	8,098961E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102719E+06	3,783635E+08	1,011797E+09	1,382202E+09	1,382215E+09	1,011832E+09	3,783977E+08

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	8,103450E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100539E+06	3,784281E+08	1,011859E+09	1,382225E+09	1,382181E+09	1,011754E+09	3,783263E+08
-767	8,096962E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097926E+06	3,783288E+08	1,011772E+09	1,382188E+09	1,382200E+09	1,011813E+09	3,784044E+08
-766	8,101435E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103143E+06	3,783720E+08	1,011768E+09	1,382149E+09	1,382150E+09	1,011765E+09	3,783491E+08
-765	8,102452E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099256E+06	3,783719E+08	1,011756E+09	1,382120E+09	1,382100E+09	1,011704E+09	3,783238E+08
-764	8,097866E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099977E+06	3,782851E+08	1,011651E+09	1,382035E+09	1,382067E+09	1,011731E+09	3,783822E+08
-763	8,105062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103819E+06	3,783590E+08	1,011669E+09	1,381983E+09	1,381969E+09	1,011624E+09	3,782837E+08
-762	8,100503E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099390E+06	3,783061E+08	1,011629E+09	1,381950E+09	1,381932E+09	1,011603E+09	3,783132E+08
-761	8,100787E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101754E+06	3,782667E+08	1,011572E+09	1,381909E+09	1,381924E+09	1,011618E+09	3,783324E+08
-760	8,105734E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103977E+06	3,783430E+08	1,011624E+09	1,381914E+09	1,381878E+09	1,011530E+09	3,782421E+08
-759	8,099557E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098960E+06	3,782576E+08	1,011555E+09	1,381892E+09	1,381907E+09	1,011598E+09	3,783225E+08
-758	8,102893E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104474E+06	3,782925E+08	1,011572E+09	1,381891E+09	1,381907E+09	1,011602E+09	3,783022E+08
-757	8,103573E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102662E+06	3,783421E+08	1,011635E+09	1,381940E+09	1,381917E+09	1,011569E+09	3,782678E+08
-756	8,099545E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098804E+06	3,782594E+08	1,011589E+09	1,381950E+09	1,381980E+09	1,011668E+09	3,783609E+08
-755	8,103742E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104837E+06	3,783381E+08	1,011650E+09	1,381977E+09	1,381977E+09	1,011639E+09	3,783002E+08
-754	8,102454E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097923E+06	3,783274E+08	1,011681E+09	1,382032E+09	1,382019E+09	1,011661E+09	3,783240E+08
-753	8,099496E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100542E+06	3,782848E+08	1,011650E+09	1,382040E+09	1,382077E+09	1,011738E+09	3,783810E+08
-752	8,104291E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104045E+06	3,783917E+08	1,011742E+09	1,382076E+09	1,382058E+09	1,011677E+09	3,782938E+08
-751	8,099427E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097768E+06	3,783340E+08	1,011726E+09	1,382095E+09	1,382093E+09	1,011730E+09	3,783609E+08
-750	8,098880E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103362E+06	3,783336E+08	1,011717E+09	1,382091E+09	1,382097E+09	1,011741E+09	3,783657E+08
-749	8,104278E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101007E+06	3,783915E+08	1,011765E+09	1,382113E+09	1,382078E+09	1,011674E+09	3,782968E+08
-748	8,098179E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098316E+06	3,782895E+08	1,011670E+09	1,382060E+09	1,382083E+09	1,011731E+09	3,783778E+08
-747	8,102850E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103666E+06	3,783304E+08	1,011652E+09	1,381993E+09	1,382004E+09	1,011667E+09	3,783175E+08
-746	8,103674E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100023E+06	3,783355E+08	1,011652E+09	1,381968E+09	1,381945E+09	1,011597E+09	3,782867E+08
-745	8,098522E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100965E+06	3,782517E+08	1,011553E+09	1,381893E+09	1,381918E+09	1,011621E+09	3,783437E+08
-744	8,105838E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104871E+06	3,783294E+08	1,011585E+09	1,381857E+09	1,381831E+09	1,011512E+09	3,782397E+08
-743	8,100887E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100210E+06	3,782732E+08	1,011539E+09	1,381830E+09	1,381809E+09	1,011506E+09	3,782729E+08
-742	8,101283E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102365E+06	3,782286E+08	1,011472E+09	1,381781E+09	1,381801E+09	1,011529E+09	3,782984E+08
-741	8,106347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105090E+06	3,783096E+08	1,011523E+09	1,381788E+09	1,381770E+09	1,011455E+09	3,782141E+08
-740	8,100489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099716E+06	3,782291E+08	1,011467E+09	1,381769E+09	1,381792E+09	1,011523E+09	3,782985E+08
-739	8,103707E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104783E+06	3,782578E+08	1,011481E+09	1,381763E+09	1,381778E+09	1,011513E+09	3,782765E+08
-738	8,104795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102483E+06	3,783057E+08	1,011550E+09	1,381825E+09	1,381795E+09	1,011482E+09	3,782391E+08
-737	8,100358E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099197E+06	3,782257E+08	1,011502E+09	1,381838E+09	1,381869E+09	1,011585E+09	3,783314E+08
-736	8,104514E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105951E+06	3,783157E+08	1,011577E+09	1,381870E+09	1,381867E+09	1,011554E+09	3,782640E+08
-735	8,102516E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099439E+06	3,783117E+08	1,011612E+09	1,381926E+09	1,381912E+09	1,011581E+09	3,782884E+08
-734	8,099187E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101951E+06	3,782667E+08	1,011583E+09	1,381935E+09	1,381965E+09	1,011656E+09	3,783493E+08
-733	8,104443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104999E+06	3,783692E+08	1,011673E+09	1,381983E+09	1,381964E+09	1,011604E+09	3,782674E+08

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	8,100257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,097988E+06	3,783024E+08	1,011649E+09	1,381997E+09	1,381994E+09	1,011656E+09	3,783366E+08
-731	8,100086E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102958E+06	3,782878E+08	1,011614E+09	1,381963E+09	1,381977E+09	1,011656E+09	3,783396E+08
-730	8,105903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100908E+06	3,783445E+08	1,011654E+09	1,381972E+09	1,381943E+09	1,011582E+09	3,782648E+08
-729	8,099047E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099293E+06	3,782510E+08	1,011555E+09	1,381904E+09	1,381936E+09	1,011630E+09	3,783430E+08
-728	8,103807E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105086E+06	3,783033E+08	1,011556E+09	1,381841E+09	1,381847E+09	1,011552E+09	3,782740E+08
-727	8,103818E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101461E+06	3,783072E+08	1,011559E+09	1,381826E+09	1,381791E+09	1,011481E+09	3,782425E+08
-726	8,098926E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101561E+06	3,782148E+08	1,011456E+09	1,381758E+09	1,381775E+09	1,011510E+09	3,783035E+08
-725	8,106616E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105613E+06	3,782900E+08	1,011483E+09	1,381734E+09	1,381716E+09	1,011422E+09	3,782067E+08
-724	8,102071E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100803E+06	3,782366E+08	1,011440E+09	1,381705E+09	1,381694E+09	1,011424E+09	3,782436E+08
-723	8,102391E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102884E+06	3,781916E+08	1,011369E+09	1,381641E+09	1,381670E+09	1,011441E+09	3,782699E+08
-722	8,107312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105771E+06	3,782776E+08	1,011434E+09	1,381659E+09	1,381637E+09	1,011367E+09	3,781843E+08
-721	8,101082E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100578E+06	3,782012E+08	1,011385E+09	1,381651E+09	1,381669E+09	1,011434E+09	3,782683E+08
-720	8,104315E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105646E+06	3,782331E+08	1,011409E+09	1,381656E+09	1,381663E+09	1,011423E+09	3,782406E+08
-719	8,105008E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103253E+06	3,782786E+08	1,011473E+09	1,381722E+09	1,381690E+09	1,011400E+09	3,782045E+08
-718	8,100528E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099988E+06	3,781970E+08	1,011420E+09	1,381729E+09	1,381762E+09	1,011506E+09	3,782997E+08
-717	8,104622E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107062E+06	3,782913E+08	1,011497E+09	1,381767E+09	1,381773E+09	1,011486E+09	3,782389E+08
-716	8,103209E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100143E+06	3,782905E+08	1,011544E+09	1,381825E+09	1,381808E+09	1,011509E+09	3,782653E+08
-715	8,099978E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101966E+06	3,782334E+08	1,011503E+09	1,381823E+09	1,381848E+09	1,011573E+09	3,783255E+08
-714	8,105807E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104523E+06	3,783289E+08	1,011587E+09	1,381871E+09	1,381847E+09	1,011521E+09	3,782418E+08
-713	8,101459E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,098362E+06	3,782628E+08	1,011550E+09	1,381873E+09	1,381877E+09	1,011570E+09	3,783074E+08
-712	8,101248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103850E+06	3,782551E+08	1,011516E+09	1,381827E+09	1,381846E+09	1,011560E+09	3,783011E+08
-711	8,106214E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102495E+06	3,783171E+08	1,011557E+09	1,381831E+09	1,381803E+09	1,011481E+09	3,782239E+08
-710	8,099057E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100802E+06	3,782240E+08	1,011462E+09	1,381764E+09	1,381786E+09	1,011519E+09	3,783009E+08
-709	8,103983E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106183E+06	3,782720E+08	1,011465E+09	1,381717E+09	1,381717E+09	1,011452E+09	3,782384E+08
-708	8,104615E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102030E+06	3,782722E+08	1,011467E+09	1,381703E+09	1,381665E+09	1,011386E+09	3,782095E+08
-707	8,100180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101368E+06	3,781676E+08	1,011345E+09	1,381618E+09	1,381641E+09	1,011414E+09	3,782710E+08
-706	8,107956E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105899E+06	3,782454E+08	1,011372E+09	1,381591E+09	1,381578E+09	1,011330E+09	3,781751E+08
-705	8,102944E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101957E+06	3,782020E+08	1,011334E+09	1,381561E+09	1,381557E+09	1,011329E+09	3,782107E+08
-704	8,103160E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104209E+06	3,781675E+08	1,011284E+09	1,381508E+09	1,381530E+09	1,011339E+09	3,782309E+08
-703	8,107312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106994E+06	3,782516E+08	1,011355E+09	1,381542E+09	1,381508E+09	1,011269E+09	3,781475E+08
-702	8,101416E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101081E+06	3,781700E+08	1,011302E+09	1,381540E+09	1,381550E+09	1,011341E+09	3,782346E+08
-701	8,104780E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106255E+06	3,781997E+08	1,011323E+09	1,381556E+09	1,381571E+09	1,011351E+09	3,782158E+08
-700	8,106069E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103788E+06	3,782509E+08	1,011394E+09	1,381618E+09	1,381594E+09	1,011333E+09	3,781819E+08
-699	8,101465E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100301E+06	3,781673E+08	1,011339E+09	1,381616E+09	1,381653E+09	1,011431E+09	3,782760E+08
-698	8,105493E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107368E+06	3,782634E+08	1,011426E+09	1,381663E+09	1,381660E+09	1,011409E+09	3,782151E+08
-697	8,104007E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100603E+06	3,782615E+08	1,011470E+09	1,381725E+09	1,381702E+09	1,011428E+09	3,782382E+08



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												
-696	8,100824E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102502E+06	3,782051E+08	1,011427E+09	1,381717E+09	1,381736E+09	1,011485E+09	3,782910E+08
-695	8,106226E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105224E+06	3,782948E+08	1,011496E+09	1,381752E+09	1,381730E+09	1,011432E+09	3,782056E+08
-694	8,101740E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,099559E+06	3,782294E+08	1,011448E+09	1,381736E+09	1,381745E+09	1,011476E+09	3,782701E+08
-693	8,101429E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105274E+06	3,782251E+08	1,011416E+09	1,381692E+09	1,381718E+09	1,011469E+09	3,782690E+08
-692	8,106858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103617E+06	3,782891E+08	1,011467E+09	1,381696E+09	1,381664E+09	1,011382E+09	3,781917E+08
-691	8,099939E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100914E+06	3,781838E+08	1,011363E+09	1,381625E+09	1,381638E+09	1,011410E+09	3,782663E+08
-690	8,105336E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105935E+06	3,782266E+08	1,011363E+09	1,381583E+09	1,381575E+09	1,011348E+09	3,782049E+08
-689	8,105821E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102637E+06	3,782301E+08	1,011360E+09	1,381567E+09	1,381533E+09	1,011286E+09	3,781745E+08
-688	8,101443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102526E+06	3,781367E+08	1,011246E+09	1,381477E+09	1,381502E+09	1,011312E+09	3,782302E+08
-687	8,108151E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107644E+06	3,782189E+08	1,011280E+09	1,381456E+09	1,381442E+09	1,011231E+09	3,781367E+08
-686	8,103103E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103388E+06	3,781757E+08	1,011247E+09	1,381434E+09	1,381424E+09	1,011231E+09	3,781737E+08
-685	8,103413E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105050E+06	3,781357E+08	1,011199E+09	1,381402E+09	1,381424E+09	1,011255E+09	3,782021E+08
-684	8,108110E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107239E+06	3,782170E+08	1,011271E+09	1,381436E+09	1,381404E+09	1,011191E+09	3,781219E+08
-683	8,102632E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100608E+06	3,781273E+08	1,011205E+09	1,381419E+09	1,381437E+09	1,011261E+09	3,782083E+08
-682	8,105886E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106366E+06	3,781627E+08	1,011231E+09	1,381434E+09	1,381453E+09	1,011274E+09	3,781921E+08
-681	8,106977E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104720E+06	3,782251E+08	1,011312E+09	1,381501E+09	1,381480E+09	1,011255E+09	3,781559E+08
-680	8,102244E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101477E+06	3,781491E+08	1,011271E+09	1,381505E+09	1,381532E+09	1,011341E+09	3,782414E+08
-679	8,105542E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108317E+06	3,782392E+08	1,011357E+09	1,381563E+09	1,381550E+09	1,011322E+09	3,781820E+08
-678	8,104408E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101285E+06	3,782311E+08	1,011389E+09	1,381621E+09	1,381595E+09	1,011341E+09	3,782039E+08
-677	8,101062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103265E+06	3,781711E+08	1,011337E+09	1,381612E+09	1,381640E+09	1,011410E+09	3,782633E+08
-676	8,107047E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106033E+06	3,782649E+08	1,011406E+09	1,381632E+09	1,381617E+09	1,011355E+09	3,781785E+08
-675	8,102505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,100178E+06	3,781960E+08	1,011352E+09	1,381598E+09	1,381608E+09	1,011381E+09	3,782397E+08
-674	8,102406E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105699E+06	3,781916E+08	1,011325E+09	1,381558E+09	1,381574E+09	1,011369E+09	3,782386E+08
-673	8,107898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104279E+06	3,782531E+08	1,011373E+09	1,381567E+09	1,381528E+09	1,011279E+09	3,781575E+08
-672	8,101151E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101530E+06	3,781481E+08	1,011267E+09	1,381492E+09	1,381500E+09	1,011301E+09	3,782229E+08
-671	8,105895E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106761E+06	3,781870E+08	1,011258E+09	1,381447E+09	1,381441E+09	1,011244E+09	3,781634E+08
-670	8,106216E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104013E+06	3,781937E+08	1,011251E+09	1,381423E+09	1,381393E+09	1,011184E+09	3,781336E+08
-669	8,101765E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103920E+06	3,781050E+08	1,011145E+09	1,381344E+09	1,381374E+09	1,011221E+09	3,781983E+08
-668	8,108844E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108688E+06	3,781881E+08	1,011190E+09	1,381326E+09	1,381310E+09	1,011139E+09	3,781079E+08
-667	8,104192E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103278E+06	3,781338E+08	1,011147E+09	1,381301E+09	1,381290E+09	1,011134E+09	3,781449E+08
-666	8,104906E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104771E+06	3,780925E+08	1,011099E+09	1,381273E+09	1,381297E+09	1,011166E+09	3,781751E+08
-665	8,109338E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107663E+06	3,781784E+08	1,011172E+09	1,381310E+09	1,381288E+09	1,011107E+09	3,780933E+08
-664	8,103804E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101676E+06	3,781044E+08	1,011123E+09	1,381298E+09	1,381315E+09	1,011171E+09	3,781710E+08
-663	8,105787E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108027E+06	3,781456E+08	1,011163E+09	1,381327E+09	1,381338E+09	1,011186E+09	3,781570E+08
-662	8,106903E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106057E+06	3,782075E+08	1,011248E+09	1,381404E+09	1,381373E+09	1,011170E+09	3,781223E+08
-661	8,102244E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102410E+06	3,781257E+08	1,011207E+09	1,381426E+09	1,381449E+09	1,011272E+09	3,782159E+08

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	8,106156E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108561E+06	3,782081E+08	1,011282E+09	1,381471E+09	1,381462E+09	1,011255E+09	3,781595E+08
-659	8,105488E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101007E+06	3,781886E+08	1,011290E+09	1,381500E+09	1,381486E+09	1,011266E+09	3,781789E+08
-658	8,102116E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103499E+06	3,781331E+08	1,011235E+09	1,381475E+09	1,381512E+09	1,011328E+09	3,782380E+08
-657	8,108065E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106846E+06	3,782325E+08	1,011309E+09	1,381494E+09	1,381481E+09	1,011261E+09	3,781486E+08
-656	8,103485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,101329E+06	3,781706E+08	1,011266E+09	1,381462E+09	1,381459E+09	1,011268E+09	3,781978E+08
-655	8,102834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106539E+06	3,781595E+08	1,011237E+09	1,381432E+09	1,381435E+09	1,011256E+09	3,781966E+08
-654	8,108515E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105205E+06	3,782163E+08	1,011273E+09	1,381437E+09	1,381396E+09	1,011174E+09	3,781161E+08
-653	8,101728E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102585E+06	3,781109E+08	1,011165E+09	1,381370E+09	1,381384E+09	1,011211E+09	3,781881E+08
-652	8,106742E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107878E+06	3,781543E+08	1,011160E+09	1,381315E+09	1,381317E+09	1,011157E+09	3,781323E+08
-651	8,107014E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104783E+06	3,781561E+08	1,011147E+09	1,381279E+09	1,381253E+09	1,011087E+09	3,781018E+08
-650	8,102853E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104282E+06	3,780682E+08	1,011046E+09	1,381204E+09	1,381232E+09	1,011124E+09	3,781691E+08
-649	8,109950E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109120E+06	3,781483E+08	1,011090E+09	1,381195E+09	1,381180E+09	1,011043E+09	3,780771E+08
-648	8,105510E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103809E+06	3,780985E+08	1,011049E+09	1,381165E+09	1,381153E+09	1,011031E+09	3,781043E+08
-647	8,105401E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105687E+06	3,780591E+08	1,011004E+09	1,381145E+09	1,381170E+09	1,011069E+09	3,781363E+08
-646	8,109496E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109180E+06	3,781532E+08	1,011082E+09	1,381186E+09	1,381166E+09	1,011018E+09	3,780570E+08
-645	8,103863E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103070E+06	3,780851E+08	1,011054E+09	1,381201E+09	1,381214E+09	1,011094E+09	3,781422E+08
-644	8,106074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108921E+06	3,781250E+08	1,011103E+09	1,381238E+09	1,381241E+09	1,011114E+09	3,781334E+08
-643	8,107782E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105601E+06	3,781708E+08	1,011169E+09	1,381306E+09	1,381274E+09	1,011096E+09	3,780996E+08
-642	8,103568E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102043E+06	3,780870E+08	1,011118E+09	1,381316E+09	1,381347E+09	1,011202E+09	3,781952E+08
-641	8,107489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108717E+06	3,781691E+08	1,011184E+09	1,381351E+09	1,381356E+09	1,011182E+09	3,781356E+08
-640	8,106736E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102076E+06	3,781624E+08	1,011199E+09	1,381366E+09	1,381355E+09	1,011173E+09	3,781425E+08
-639	8,102313E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104975E+06	3,781103E+08	1,011153E+09	1,381349E+09	1,381378E+09	1,011226E+09	3,781993E+08
-638	8,108275E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108163E+06	3,782072E+08	1,011226E+09	1,381373E+09	1,381350E+09	1,011157E+09	3,781089E+08
-637	8,103684E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102342E+06	3,781410E+08	1,011185E+09	1,381358E+09	1,381347E+09	1,011175E+09	3,781616E+08
-636	8,103566E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107025E+06	3,781238E+08	1,011147E+09	1,381316E+09	1,381320E+09	1,011168E+09	3,781631E+08
-635	8,109409E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105367E+06	3,781700E+08	1,011160E+09	1,381295E+09	1,381266E+09	1,011083E+09	3,780841E+08
-634	8,102855E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103268E+06	3,780720E+08	1,011051E+09	1,381213E+09	1,381241E+09	1,011119E+09	3,781586E+08
-633	8,107924E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108727E+06	3,781162E+08	1,011050E+09	1,381161E+09	1,381169E+09	1,011057E+09	3,781011E+08
-632	8,108238E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105904E+06	3,781229E+08	1,011045E+09	1,381128E+09	1,381095E+09	1,010972E+09	3,780607E+08
-631	8,103637E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104996E+06	3,780321E+08	1,010948E+09	1,381067E+09	1,381087E+09	1,011010E+09	3,781268E+08
-630	8,110485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109992E+06	3,781108E+08	1,010988E+09	1,381062E+09	1,381047E+09	1,010940E+09	3,780368E+08
-629	8,105962E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104925E+06	3,780696E+08	1,010962E+09	1,381054E+09	1,381043E+09	1,010946E+09	3,780702E+08
-628	8,105864E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106899E+06	3,780376E+08	1,010931E+09	1,381038E+09	1,381063E+09	1,010993E+09	3,781075E+08
-627	8,109918E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109693E+06	3,781256E+08	1,011007E+09	1,381078E+09	1,381058E+09	1,010943E+09	3,780332E+08
-626	8,104907E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103257E+06	3,780571E+08	1,010982E+09	1,381099E+09	1,381113E+09	1,011025E+09	3,781213E+08
-625	8,107126E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108860E+06	3,780891E+08	1,011023E+09	1,381140E+09	1,381148E+09	1,011045E+09	3,781119E+08

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	8,109127E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105716E+06	3,781357E+08	1,011080E+09	1,381191E+09	1,381163E+09	1,011015E+09	3,780672E+08
-623	8,104078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102844E+06	3,780551E+08	1,011026E+09	1,381192E+09	1,381228E+09	1,011114E+09	3,781600E+08
-622	8,107591E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110054E+06	3,781426E+08	1,011091E+09	1,381218E+09	1,381228E+09	1,011093E+09	3,781000E+08
-621	8,106769E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103643E+06	3,781431E+08	1,011125E+09	1,381255E+09	1,381235E+09	1,011084E+09	3,781089E+08
-620	8,102615E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106052E+06	3,780879E+08	1,011084E+09	1,381243E+09	1,381260E+09	1,011135E+09	3,781665E+08
-619	8,109024E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108070E+06	3,781677E+08	1,011135E+09	1,381254E+09	1,381229E+09	1,011066E+09	3,780787E+08
-618	8,104932E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,102403E+06	3,780993E+08	1,011083E+09	1,381226E+09	1,381224E+09	1,011089E+09	3,781325E+08
-617	8,104998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107340E+06	3,780814E+08	1,011038E+09	1,381177E+09	1,381193E+09	1,011081E+09	3,781332E+08
-616	8,110606E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106639E+06	3,781366E+08	1,011052E+09	1,381140E+09	1,381114E+09	1,010977E+09	3,780440E+08
-615	8,103371E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104688E+06	3,780424E+08	1,010953E+09	1,381067E+09	1,381086E+09	1,011005E+09	3,781172E+08
-614	8,108427E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109913E+06	3,780825E+08	1,010950E+09	1,381021E+09	1,381023E+09	1,010947E+09	3,780603E+08
-613	8,108668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106901E+06	3,780883E+08	1,010952E+09	1,381008E+09	1,380969E+09	1,010872E+09	3,780235E+08
-612	8,104492E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105477E+06	3,779961E+08	1,010854E+09	1,380945E+09	1,380965E+09	1,010918E+09	3,780915E+08
-611	8,111155E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110138E+06	3,780678E+08	1,010882E+09	1,380926E+09	1,380920E+09	1,010852E+09	3,780069E+08
-610	8,106969E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105510E+06	3,780386E+08	1,010869E+09	1,380920E+09	1,380918E+09	1,010866E+09	3,780442E+08
-609	8,106911E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107499E+06	3,780081E+08	1,010849E+09	1,380922E+09	1,380947E+09	1,010913E+09	3,780827E+08
-608	8,110970E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110343E+06	3,780971E+08	1,010927E+09	1,380964E+09	1,380937E+09	1,010854E+09	3,780019E+08
-607	8,105761E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103713E+06	3,780260E+08	1,010901E+09	1,380993E+09	1,381003E+09	1,010937E+09	3,780882E+08
-606	8,107540E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109524E+06	3,780550E+08	1,010932E+09	1,381026E+09	1,381042E+09	1,010966E+09	3,780792E+08
-605	8,109391E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106853E+06	3,781110E+08	1,011003E+09	1,381088E+09	1,381062E+09	1,010940E+09	3,780365E+08
-604	8,104184E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104295E+06	3,780386E+08	1,010959E+09	1,381087E+09	1,381118E+09	1,011036E+09	3,781293E+08
-603	8,107671E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110527E+06	3,781155E+08	1,011016E+09	1,381106E+09	1,381110E+09	1,011009E+09	3,780740E+08
-602	8,107652E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104039E+06	3,781156E+08	1,011048E+09	1,381143E+09	1,381121E+09	1,011004E+09	3,780834E+08
-601	8,103867E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105997E+06	3,780489E+08	1,010995E+09	1,381130E+09	1,381149E+09	1,011052E+09	3,781386E+08
-600	8,110416E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108282E+06	3,781259E+08	1,011030E+09	1,381118E+09	1,381098E+09	1,010970E+09	3,780431E+08
-599	8,105798E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,103384E+06	3,780613E+08	1,010974E+09	1,381082E+09	1,381084E+09	1,010985E+09	3,780923E+08
-598	8,105413E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108581E+06	3,780466E+08	1,010928E+09	1,381023E+09	1,381044E+09	1,010976E+09	3,780937E+08
-597	8,110859E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108236E+06	3,781083E+08	1,010962E+09	1,381007E+09	1,380970E+09	1,010873E+09	3,780068E+08
-596	8,103976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105685E+06	3,780122E+08	1,010864E+09	1,380937E+09	1,380946E+09	1,010899E+09	3,780801E+08
-595	8,109339E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109763E+06	3,780360E+08	1,010841E+09	1,380882E+09	1,380885E+09	1,010846E+09	3,780276E+08
-594	8,109946E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107236E+06	3,780467E+08	1,010842E+09	1,380863E+09	1,380837E+09	1,010782E+09	3,779928E+08
-593	8,105938E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105890E+06	3,779581E+08	1,010753E+09	1,380811E+09	1,380840E+09	1,010830E+09	3,780601E+08
-592	8,112004E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111331E+06	3,780392E+08	1,010790E+09	1,380791E+09	1,380783E+09	1,010756E+09	3,779723E+08
-591	8,107539E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106666E+06	3,780148E+08	1,010793E+09	1,380807E+09	1,380793E+09	1,010769E+09	3,780078E+08
-590	8,107136E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108448E+06	3,779809E+08	1,010773E+09	1,380817E+09	1,380837E+09	1,010827E+09	3,780495E+08
-589	8,111142E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111173E+06	3,780698E+08	1,010857E+09	1,380874E+09	1,380842E+09	1,010780E+09	3,779723E+08

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	8,106220E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104395E+06	3,779988E+08	1,010825E+09	1,380893E+09	1,380905E+09	1,010866E+09	3,780593E+08
-587	8,107745E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109751E+06	3,780192E+08	1,010838E+09	1,380905E+09	1,380931E+09	1,010893E+09	3,780550E+08
-586	8,110103E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107478E+06	3,780840E+08	1,010916E+09	1,380961E+09	1,380944E+09	1,010866E+09	3,780144E+08
-585	8,105251E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104708E+06	3,780100E+08	1,010883E+09	1,380976E+09	1,381001E+09	1,010952E+09	3,781041E+08
-584	8,108783E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110777E+06	3,780824E+08	1,010933E+09	1,380988E+09	1,380981E+09	1,010912E+09	3,780424E+08
-583	8,108799E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104344E+06	3,780796E+08	1,010960E+09	1,381026E+09	1,380997E+09	1,010904E+09	3,780467E+08
-582	8,104612E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106690E+06	3,780110E+08	1,010893E+09	1,381001E+09	1,381026E+09	1,010961E+09	3,781017E+08
-581	8,110848E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109597E+06	3,780961E+08	1,010939E+09	1,380994E+09	1,380973E+09	1,010881E+09	3,780079E+08
-580	8,106115E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105098E+06	3,780376E+08	1,010888E+09	1,380952E+09	1,380950E+09	1,010889E+09	3,780559E+08
-579	8,105820E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109078E+06	3,780090E+08	1,010828E+09	1,380884E+09	1,380903E+09	1,010876E+09	3,780614E+08
-578	8,111794E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108856E+06	3,780704E+08	1,010859E+09	1,380866E+09	1,380833E+09	1,010775E+09	3,779758E+08
-577	8,105461E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105702E+06	3,779677E+08	1,010758E+09	1,380800E+09	1,380811E+09	1,010799E+09	3,780456E+08
-576	8,110607E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110152E+06	3,779912E+08	1,010726E+09	1,380728E+09	1,380735E+09	1,010737E+09	3,779885E+08
-575	8,110715E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108385E+06	3,780120E+08	1,010736E+09	1,380716E+09	1,380690E+09	1,010673E+09	3,779511E+08
-574	8,106298E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107294E+06	3,779304E+08	1,010658E+09	1,380673E+09	1,380703E+09	1,010731E+09	3,780211E+08
-573	8,111965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112950E+06	3,780183E+08	1,010722E+09	1,380686E+09	1,380664E+09	1,010666E+09	3,779398E+08
-572	8,108002E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107615E+06	3,779910E+08	1,010726E+09	1,380713E+09	1,380689E+09	1,010686E+09	3,779767E+08
-571	8,107665E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108128E+06	3,779400E+08	1,010683E+09	1,380710E+09	1,380735E+09	1,010753E+09	3,780255E+08
-570	8,112131E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111344E+06	3,780339E+08	1,010764E+09	1,380756E+09	1,380742E+09	1,010715E+09	3,779519E+08
-569	8,107530E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,104652E+06	3,779671E+08	1,010739E+09	1,380777E+09	1,380797E+09	1,010793E+09	3,780355E+08
-568	8,108516E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110506E+06	3,779919E+08	1,010755E+09	1,380781E+09	1,380804E+09	1,010805E+09	3,780276E+08
-567	8,110984E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108325E+06	3,780604E+08	1,010844E+09	1,380854E+09	1,380824E+09	1,010771E+09	3,779815E+08
-566	8,105753E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105449E+06	3,779810E+08	1,010805E+09	1,380872E+09	1,380891E+09	1,010864E+09	3,780691E+08
-565	8,109114E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111495E+06	3,780532E+08	1,010860E+09	1,380892E+09	1,380878E+09	1,010829E+09	3,780095E+08
-564	8,109314E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105331E+06	3,780493E+08	1,010875E+09	1,380915E+09	1,380887E+09	1,010819E+09	3,780111E+08
-563	8,104790E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107186E+06	3,779726E+08	1,010788E+09	1,380862E+09	1,380897E+09	1,010873E+09	3,780711E+08
-562	8,111491E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110634E+06	3,780643E+08	1,010836E+09	1,380845E+09	1,380836E+09	1,010792E+09	3,779800E+08
-561	8,107310E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105832E+06	3,780023E+08	1,010791E+09	1,380814E+09	1,380808E+09	1,010787E+09	3,780240E+08
-560	8,107143E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109391E+06	3,779662E+08	1,010718E+09	1,380734E+09	1,380748E+09	1,010761E+09	3,780248E+08
-559	8,113094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109438E+06	3,780274E+08	1,010749E+09	1,380721E+09	1,380683E+09	1,010658E+09	3,779332E+08
-558	8,106284E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106598E+06	3,779286E+08	1,010648E+09	1,380654E+09	1,380669E+09	1,010693E+09	3,780015E+08
-557	8,110795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111753E+06	3,779651E+08	1,010640E+09	1,380602E+09	1,380601E+09	1,010637E+09	3,779492E+08
-556	8,110788E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110151E+06	3,779923E+08	1,010663E+09	1,380602E+09	1,380567E+09	1,010580E+09	3,779146E+08
-555	8,106618E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107773E+06	3,778987E+08	1,010575E+09	1,380560E+09	1,380587E+09	1,010647E+09	3,779932E+08
-554	8,112731E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113368E+06	3,779834E+08	1,010633E+09	1,380572E+09	1,380561E+09	1,010594E+09	3,779191E+08
-553	8,109706E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107243E+06	3,779487E+08	1,010632E+09	1,380601E+09	1,380587E+09	1,010613E+09	3,779536E+08



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	8,108976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108127E+06	3,778965E+08	1,010575E+09	1,380575E+09	1,380611E+09	1,010668E+09	3,779976E+08
-551	8,113039E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111995E+06	3,780008E+08	1,010668E+09	1,380624E+09	1,380612E+09	1,010622E+09	3,779191E+08
-550	8,107955E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105766E+06	3,779438E+08	1,010658E+09	1,380654E+09	1,380672E+09	1,010703E+09	3,780007E+08
-549	8,108524E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111883E+06	3,779749E+08	1,010698E+09	1,380686E+09	1,380690E+09	1,010715E+09	3,779954E+08
-548	8,111440E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109371E+06	3,780399E+08	1,010782E+09	1,380765E+09	1,380722E+09	1,010687E+09	3,779485E+08
-547	8,106195E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105624E+06	3,779447E+08	1,010718E+09	1,380765E+09	1,380790E+09	1,010786E+09	3,780400E+08
-546	8,109828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112139E+06	3,780196E+08	1,010764E+09	1,380771E+09	1,380773E+09	1,010758E+09	3,779851E+08
-545	8,110477E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106059E+06	3,780167E+08	1,010782E+09	1,380790E+09	1,380768E+09	1,010737E+09	3,779824E+08
-544	8,105544E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107971E+06	3,779387E+08	1,010688E+09	1,380719E+09	1,380751E+09	1,010771E+09	3,780389E+08
-543	8,112513E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111425E+06	3,780298E+08	1,010741E+09	1,380710E+09	1,380689E+09	1,010679E+09	3,779419E+08
-542	8,108064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106691E+06	3,779650E+08	1,010688E+09	1,380676E+09	1,380667E+09	1,010678E+09	3,779819E+08
-541	8,107779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110294E+06	3,779315E+08	1,010624E+09	1,380605E+09	1,380611E+09	1,010654E+09	3,779836E+08
-540	8,113600E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110833E+06	3,779943E+08	1,010649E+09	1,380586E+09	1,380549E+09	1,010555E+09	3,778912E+08
-539	8,106564E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107265E+06	3,778906E+08	1,010540E+09	1,380509E+09	1,380531E+09	1,010596E+09	3,779660E+08
-538	8,111351E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112789E+06	3,779340E+08	1,010543E+09	1,380466E+09	1,380473E+09	1,010550E+09	3,779230E+08
-537	8,112172E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110501E+06	3,779558E+08	1,010574E+09	1,380483E+09	1,380444E+09	1,010490E+09	3,778875E+08
-536	8,108125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107623E+06	3,778548E+08	1,010471E+09	1,380429E+09	1,380457E+09	1,010553E+09	3,779651E+08
-535	8,114175E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113606E+06	3,779413E+08	1,010530E+09	1,380444E+09	1,380436E+09	1,010501E+09	3,778868E+08
-534	8,110611E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107990E+06	3,779146E+08	1,010532E+09	1,380470E+09	1,380466E+09	1,010526E+09	3,779180E+08
-533	8,109087E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109754E+06	3,778788E+08	1,010505E+09	1,380463E+09	1,380492E+09	1,010581E+09	3,779634E+08
-532	8,112934E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113728E+06	3,779879E+08	1,010609E+09	1,380528E+09	1,380503E+09	1,010536E+09	3,778849E+08
-531	8,107957E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106394E+06	3,779207E+08	1,010592E+09	1,380561E+09	1,380571E+09	1,010623E+09	3,779711E+08
-530	8,108848E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112510E+06	3,779485E+08	1,010625E+09	1,380593E+09	1,380602E+09	1,010648E+09	3,779732E+08
-529	8,112800E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109249E+06	3,780038E+08	1,010700E+09	1,380665E+09	1,380630E+09	1,010618E+09	3,779236E+08
-528	8,107213E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,105852E+06	3,779043E+08	1,010613E+09	1,380632E+09	1,380667E+09	1,010703E+09	3,780121E+08
-527	8,110837E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112801E+06	3,779841E+08	1,010662E+09	1,380630E+09	1,380636E+09	1,010661E+09	3,779520E+08
-526	8,111094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107259E+06	3,779858E+08	1,010685E+09	1,380650E+09	1,380627E+09	1,010635E+09	3,779452E+08
-525	8,105990E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109202E+06	3,779124E+08	1,010607E+09	1,380594E+09	1,380610E+09	1,010662E+09	3,780004E+08
-524	8,113229E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112375E+06	3,779963E+08	1,010649E+09	1,380585E+09	1,380556E+09	1,010572E+09	3,779015E+08
-523	8,108725E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107051E+06	3,779222E+08	1,010579E+09	1,380536E+09	1,380532E+09	1,010577E+09	3,779435E+08
-522	8,108611E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111114E+06	3,778939E+08	1,010512E+09	1,380460E+09	1,380481E+09	1,010563E+09	3,779516E+08
-521	8,114834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111628E+06	3,779585E+08	1,010549E+09	1,380449E+09	1,380416E+09	1,010462E+09	3,778599E+08
-520	8,107687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107916E+06	3,778534E+08	1,010437E+09	1,380366E+09	1,380386E+09	1,010493E+09	3,779337E+08
-519	8,112586E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113346E+06	3,778962E+08	1,010447E+09	1,380336E+09	1,380335E+09	1,010446E+09	3,778887E+08
-518	8,113122E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111151E+06	3,779173E+08	1,010473E+09	1,380354E+09	1,380320E+09	1,010397E+09	3,778513E+08
-517	8,108826E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108544E+06	3,778240E+08	1,010383E+09	1,380306E+09	1,380333E+09	1,010460E+09	3,779279E+08

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												
-516	8,114303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115023E+06	3,779140E+08	1,010441E+09	1,380321E+09	1,380316E+09	1,010412E+09	3,778490E+08
-515	8,110526E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108949E+06	3,778890E+08	1,010445E+09	1,380344E+09	1,380344E+09	1,010441E+09	3,778850E+08
-514	8,109121E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111044E+06	3,778599E+08	1,010433E+09	1,380356E+09	1,380386E+09	1,010504E+09	3,779395E+08
-513	8,113984E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113985E+06	3,779613E+08	1,010544E+09	1,380438E+09	1,380407E+09	1,010463E+09	3,778628E+08
-512	8,109291E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106146E+06	3,778835E+08	1,010508E+09	1,380457E+09	1,380466E+09	1,010544E+09	3,779464E+08
-511	8,110193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112544E+06	3,779107E+08	1,010536E+09	1,380482E+09	1,380495E+09	1,010567E+09	3,779446E+08
-510	8,113654E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109887E+06	3,779707E+08	1,010606E+09	1,380542E+09	1,380518E+09	1,010539E+09	3,778907E+08
-509	8,107439E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107401E+06	3,778853E+08	1,010538E+09	1,380512E+09	1,380542E+09	1,010612E+09	3,779773E+08
-508	8,111011E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114265E+06	3,779620E+08	1,010585E+09	1,380515E+09	1,380512E+09	1,010566E+09	3,779152E+08
-507	8,111347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107959E+06	3,779521E+08	1,010592E+09	1,380523E+09	1,380498E+09	1,010539E+09	3,779101E+08
-506	8,106699E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109801E+06	3,778759E+08	1,010507E+09	1,380466E+09	1,380490E+09	1,010571E+09	3,779701E+08
-505	8,114808E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112463E+06	3,779517E+08	1,010542E+09	1,380450E+09	1,380427E+09	1,010478E+09	3,778686E+08
-504	8,109831E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107415E+06	3,778762E+08	1,010456E+09	1,380375E+09	1,380380E+09	1,010471E+09	3,779070E+08
-503	8,109762E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111896E+06	3,778569E+08	1,010404E+09	1,380304E+09	1,380325E+09	1,010452E+09	3,779125E+08
-502	8,115392E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112914E+06	3,779252E+08	1,010448E+09	1,380303E+09	1,380193E+09	1,010356E+09	3,778210E+08
-501	8,108358E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109253E+06	3,778272E+08	1,010354E+09	1,380239E+09	1,380246E+09	1,010385E+09	3,778945E+08
-500	8,113224E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114421E+06	3,778627E+08	1,010355E+09	1,380214E+09	1,380212E+09	1,010348E+09	3,778494E+08
-499	8,113532E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111834E+06	3,778793E+08	1,010370E+09	1,380222E+09	1,380197E+09	1,010308E+09	3,778158E+08
-498	8,109229E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109648E+06	3,777961E+08	1,010289E+09	1,380180E+09	1,380220E+09	1,010381E+09	3,779000E+08
-497	8,115053E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115707E+06	3,778873E+08	1,010364E+09	1,380208E+09	1,380203E+09	1,010334E+09	3,778235E+08
-496	8,111381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109233E+06	3,778600E+08	1,010366E+09	1,380231E+09	1,380225E+09	1,010356E+09	3,778593E+08
-495	8,110283E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111275E+06	3,778300E+08	1,010361E+09	1,380257E+09	1,380278E+09	1,010420E+09	3,779116E+08
-494	8,114871E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114172E+06	3,779273E+08	1,010463E+09	1,380337E+09	1,380311E+09	1,010390E+09	3,778348E+08
-493	8,110153E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,106965E+06	3,778567E+08	1,010432E+09	1,380351E+09	1,380361E+09	1,010465E+09	3,779134E+08
-492	8,110344E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113637E+06	3,778823E+08	1,010449E+09	1,380366E+09	1,380383E+09	1,010486E+09	3,779098E+08
-491	8,113643E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110771E+06	3,779416E+08	1,010514E+09	1,380411E+09	1,380391E+09	1,010453E+09	3,778582E+08
-490	8,107582E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108654E+06	3,778603E+08	1,010452E+09	1,380388E+09	1,380418E+09	1,010524E+09	3,779498E+08
-489	8,112280E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114364E+06	3,779254E+08	1,010496E+09	1,380395E+09	1,380388E+09	1,010475E+09	3,778872E+08
-488	8,112746E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,107980E+06	3,779074E+08	1,010482E+09	1,380381E+09	1,380359E+09	1,010437E+09	3,778773E+08
-487	8,108254E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110104E+06	3,778333E+08	1,010398E+09	1,380321E+09	1,380345E+09	1,010465E+09	3,779307E+08
-486	8,115542E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113520E+06	3,779155E+08	1,010435E+09	1,380301E+09	1,380284E+09	1,010377E+09	3,778290E+08
-485	8,110195E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109269E+06	3,778548E+08	1,010373E+09	1,380239E+09	1,380232E+09	1,010361E+09	3,778637E+08
-484	8,109959E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113435E+06	3,778314E+08	1,010321E+09	1,380181E+09	1,380190E+09	1,010347E+09	3,778703E+08
-483	8,115485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113884E+06	3,778900E+08	1,010352E+09	1,380174E+09	1,380139E+09	1,010260E+09	3,777846E+08
-482	8,109011E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110047E+06	3,777915E+08	1,010253E+09	1,380113E+09	1,380131E+09	1,010300E+09	3,778657E+08
-481	8,114607E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114495E+06	3,778189E+08	1,010250E+09	1,380084E+09	1,380092E+09	1,010265E+09	3,778212E+08

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												
-480	8,114543E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112081E+06	3,778369E+08	1,010256E+09	1,380072E+09	1,380057E+09	1,010216E+09	3,777864E+08
-479	8,110390E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110119E+06	3,777648E+08	1,010199E+09	1,380047E+09	1,380080E+09	1,010284E+09	3,778676E+08
-478	8,115553E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116433E+06	3,778588E+08	1,010285E+09	1,380094E+09	1,380082E+09	1,010246E+09	3,777940E+08
-477	8,112238E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110081E+06	3,778396E+08	1,010305E+09	1,380135E+09	1,380115E+09	1,010268E+09	3,778264E+08
-476	8,110858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112103E+06	3,778028E+08	1,010289E+09	1,380165E+09	1,380183E+09	1,010342E+09	3,778777E+08
-475	8,115063E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114746E+06	3,778948E+08	1,010374E+09	1,380225E+09	1,380209E+09	1,010319E+09	3,778049E+08
-474	8,110378E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108243E+06	3,778332E+08	1,010348E+09	1,380240E+09	1,380261E+09	1,010396E+09	3,778891E+08
-473	8,110994E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114221E+06	3,778544E+08	1,010371E+09	1,380255E+09	1,380272E+09	1,010410E+09	3,778851E+08
-472	8,114402E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111008E+06	3,779069E+08	1,010424E+09	1,380285E+09	1,380261E+09	1,010362E+09	3,778311E+08
-471	8,108814E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108923E+06	3,778256E+08	1,010364E+09	1,380265E+09	1,380286E+09	1,010425E+09	3,779162E+08
-470	8,113203E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114603E+06	3,778851E+08	1,010396E+09	1,380263E+09	1,380259E+09	1,010380E+09	3,778524E+08
-469	8,113600E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109227E+06	3,778778E+08	1,010388E+09	1,380244E+09	1,380218E+09	1,010331E+09	3,778340E+08
-468	8,108529E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111587E+06	3,778035E+08	1,010299E+09	1,380181E+09	1,380205E+09	1,010359E+09	3,778850E+08
-467	8,115358E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114845E+06	3,778841E+08	1,010335E+09	1,380156E+09	1,380138E+09	1,010274E+09	3,777903E+08
-466	8,110471E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110676E+06	3,778248E+08	1,010280E+09	1,380111E+09	1,380102E+09	1,010263E+09	3,778330E+08
-465	8,111447E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113398E+06	3,777882E+08	1,010222E+09	1,380056E+09	1,380065E+09	1,010255E+09	3,778416E+08
-464	8,116919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113779E+06	3,778387E+08	1,010232E+09	1,380026E+09	1,380000E+09	1,010163E+09	3,777553E+08
-463	8,110790E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110203E+06	3,777484E+08	1,010140E+09	1,379963E+09	1,379985E+09	1,010199E+09	3,778304E+08
-462	8,115397E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115295E+06	3,777830E+08	1,010146E+09	1,379940E+09	1,379954E+09	1,010171E+09	3,777878E+08
-461	8,115095E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113725E+06	3,778190E+08	1,010182E+09	1,379948E+09	1,379921E+09	1,010113E+09	3,777476E+08
-460	8,110636E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111369E+06	3,777435E+08	1,010131E+09	1,379946E+09	1,379967E+09	1,010190E+09	3,778285E+08
-459	8,115431E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117202E+06	3,778306E+08	1,010210E+09	1,379994E+09	1,379980E+09	1,010168E+09	3,777642E+08
-458	8,112770E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110839E+06	3,778110E+08	1,010227E+09	1,380043E+09	1,380029E+09	1,010200E+09	3,778021E+08
-457	8,111777E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112230E+06	3,777676E+08	1,010204E+09	1,380060E+09	1,380089E+09	1,010278E+09	3,778544E+08
-456	8,115682E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114954E+06	3,778584E+08	1,010275E+09	1,380093E+09	1,380088E+09	1,010241E+09	3,777812E+08
-455	8,111356E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,108802E+06	3,778050E+08	1,010264E+09	1,380112E+09	1,380127E+09	1,010305E+09	3,778599E+08
-454	8,111555E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114702E+06	3,778222E+08	1,010286E+09	1,380135E+09	1,380146E+09	1,010320E+09	3,778570E+08
-453	8,115488E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111926E+06	3,778808E+08	1,010345E+09	1,380169E+09	1,380132E+09	1,010259E+09	3,777942E+08
-452	8,109531E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109879E+06	3,777937E+08	1,010276E+09	1,380148E+09	1,380164E+09	1,010325E+09	3,778729E+08
-451	8,113306E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115495E+06	3,778507E+08	1,010297E+09	1,380130E+09	1,380130E+09	1,010286E+09	3,778146E+08
-450	8,113763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110843E+06	3,778513E+08	1,010297E+09	1,380119E+09	1,380096E+09	1,010240E+09	3,778010E+08
-449	8,109351E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112256E+06	3,777713E+08	1,010211E+09	1,380058E+09	1,380079E+09	1,010269E+09	3,778547E+08
-448	8,116267E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115094E+06	3,778409E+08	1,010228E+09	1,380016E+09	1,379999E+09	1,010175E+09	3,777620E+08
-447	8,112128E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110884E+06	3,777814E+08	1,010173E+09	1,379971E+09	1,379959E+09	1,010161E+09	3,777997E+08
-446	8,112826E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113502E+06	3,777393E+08	1,010104E+09	1,379908E+09	1,379926E+09	1,010157E+09	3,778080E+08
-445	8,117934E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115046E+06	3,778035E+08	1,010122E+09	1,379872E+09	1,379847E+09	1,010052E+09	3,777129E+08

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	8,111183E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111631E+06	3,777202E+08	1,010042E+09	1,379819E+09	1,379839E+09	1,010090E+09	3,777837E+08
-443	8,114997E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116664E+06	3,777566E+08	1,010057E+09	1,379805E+09	1,379813E+09	1,010069E+09	3,777505E+08
-442	8,115227E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115064E+06	3,777961E+08	1,010109E+09	1,379848E+09	1,379812E+09	1,010027E+09	3,777196E+08
-441	8,111865E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111506E+06	3,777114E+08	1,010058E+09	1,379855E+09	1,379874E+09	1,010118E+09	3,778036E+08
-440	8,116372E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117097E+06	3,777892E+08	1,010115E+09	1,379881E+09	1,379877E+09	1,010096E+09	3,777432E+08
-439	8,114274E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110997E+06	3,777775E+08	1,010139E+09	1,379926E+09	1,379916E+09	1,010125E+09	3,777760E+08
-438	8,112330E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112753E+06	3,777363E+08	1,010117E+09	1,379941E+09	1,379976E+09	1,010202E+09	3,778292E+08
-437	8,116261E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116178E+06	3,778391E+08	1,010204E+09	1,379980E+09	1,379963E+09	1,010147E+09	3,777474E+08
-436	8,111716E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,109916E+06	3,777823E+08	1,010193E+09	1,380009E+09	1,380011E+09	1,010209E+09	3,778206E+08
-435	8,111545E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115407E+06	3,777912E+08	1,010202E+09	1,380022E+09	1,380031E+09	1,010230E+09	3,778242E+08
-434	8,116132E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112895E+06	3,778487E+08	1,010257E+09	1,380060E+09	1,380026E+09	1,010176E+09	3,777647E+08
-433	8,110592E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110327E+06	3,777562E+08	1,010180E+09	1,380026E+09	1,380049E+09	1,010241E+09	3,778410E+08
-432	8,113923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115827E+06	3,778100E+08	1,010187E+09	1,379982E+09	1,379989E+09	1,010191E+09	3,777854E+08
-431	8,114940E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111536E+06	3,778161E+08	1,010199E+09	1,379975E+09	1,379945E+09	1,010136E+09	3,777670E+08
-430	8,110344E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112587E+06	3,777298E+08	1,010107E+09	1,379919E+09	1,379937E+09	1,010167E+09	3,778232E+08
-429	8,117668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116117E+06	3,778043E+08	1,010124E+09	1,379873E+09	1,379850E+09	1,010061E+09	3,777215E+08
-428	8,113100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112050E+06	3,777430E+08	1,010063E+09	1,379824E+09	1,379814E+09	1,010048E+09	3,777525E+08
-427	8,113064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114718E+06	3,777036E+08	1,009992E+09	1,379754E+09	1,379778E+09	1,010052E+09	3,777672E+08
-426	8,118010E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116916E+06	3,777780E+08	1,010032E+09	1,379743E+09	1,379715E+09	1,009953E+09	3,776777E+08
-425	8,111885E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112363E+06	3,776929E+08	1,009966E+09	1,379708E+09	1,379719E+09	1,010000E+09	3,777509E+08
-424	8,115494E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116867E+06	3,777208E+08	1,009971E+09	1,379691E+09	1,379697E+09	1,009983E+09	3,777258E+08
-423	8,116703E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115017E+06	3,777604E+08	1,010026E+09	1,379739E+09	1,379703E+09	1,009948E+09	3,776937E+08
-422	8,113142E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111438E+06	3,776708E+08	1,009964E+09	1,379743E+09	1,379772E+09	1,010047E+09	3,777795E+08
-421	8,117315E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118160E+06	3,777603E+08	1,010024E+09	1,379756E+09	1,379756E+09	1,010010E+09	3,777108E+08
-420	8,114692E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112188E+06	3,777534E+08	1,010056E+09	1,379805E+09	1,379795E+09	1,010035E+09	3,777374E+08
-419	8,111935E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113895E+06	3,777123E+08	1,010038E+09	1,379822E+09	1,379852E+09	1,010113E+09	3,777977E+08
-418	8,116519E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117193E+06	3,778142E+08	1,010134E+09	1,379886E+09	1,379860E+09	1,010064E+09	3,777205E+08
-417	8,112870E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110110E+06	3,777503E+08	1,010116E+09	1,379911E+09	1,379913E+09	1,010131E+09	3,777916E+08
-416	8,112398E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115429E+06	3,777505E+08	1,010102E+09	1,379897E+09	1,379915E+09	1,010147E+09	3,777978E+08
-415	8,117525E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113450E+06	3,778158E+08	1,010163E+09	1,379928E+09	1,379898E+09	1,010089E+09	3,777337E+08
-414	8,111311E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111129E+06	3,777230E+08	1,010086E+09	1,379894E+09	1,379919E+09	1,010151E+09	3,778097E+08
-413	8,114731E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117121E+06	3,777828E+08	1,010098E+09	1,379848E+09	1,379844E+09	1,010082E+09	3,777470E+08
-412	8,115597E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112794E+06	3,777835E+08	1,010105E+09	1,379846E+09	1,379809E+09	1,010026E+09	3,777224E+08
-411	8,110642E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113412E+06	3,776904E+08	1,009998E+09	1,379774E+09	1,379796E+09	1,010062E+09	3,777842E+08
-410	8,118334E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117280E+06	3,777646E+08	1,010015E+09	1,379736E+09	1,379718E+09	1,009961E+09	3,776855E+08
-409	8,114074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112902E+06	3,777055E+08	1,009954E+09	1,379680E+09	1,379676E+09	1,009949E+09	3,777144E+08



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	8,113571E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115211E+06	3,776646E+08	1,009881E+09	1,379599E+09	1,379626E+09	1,009947E+09	3,777350E+08
-407	8,119128E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117530E+06	3,777451E+08	1,009941E+09	1,379606E+09	1,379570E+09	1,009852E+09	3,776468E+08
-406	8,113201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112376E+06	3,776540E+08	1,009875E+09	1,379591E+09	1,379599E+09	1,009910E+09	3,777231E+08
-405	8,116904E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117581E+06	3,776872E+08	1,009882E+09	1,379573E+09	1,379576E+09	1,009889E+09	3,776924E+08
-404	8,117703E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115843E+06	3,777275E+08	1,009934E+09	1,379622E+09	1,379592E+09	1,009861E+09	3,776548E+08
-403	8,113209E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112590E+06	3,776435E+08	1,009872E+09	1,379618E+09	1,379656E+09	1,009966E+09	3,777471E+08
-402	8,117203E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119707E+06	3,777392E+08	1,009951E+09	1,379654E+09	1,379652E+09	1,009932E+09	3,776833E+08
-401	8,115269E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112881E+06	3,777305E+08	1,009989E+09	1,379710E+09	1,379694E+09	1,009958E+09	3,777086E+08
-400	8,112270E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114071E+06	3,776797E+08	1,009956E+09	1,379714E+09	1,379743E+09	1,010033E+09	3,777744E+08
-399	8,117895E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117228E+06	3,777806E+08	1,010051E+09	1,379773E+09	1,379749E+09	1,009986E+09	3,776951E+08
-398	8,114070E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,110221E+06	3,777117E+08	1,010022E+09	1,379793E+09	1,379803E+09	1,010053E+09	3,777635E+08
-397	8,113312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116619E+06	3,777223E+08	1,010007E+09	1,379762E+09	1,379781E+09	1,010049E+09	3,777601E+08
-396	8,117914E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114770E+06	3,777887E+08	1,010072E+09	1,379794E+09	1,379761E+09	1,009984E+09	3,776901E+08
-395	8,111156E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112391E+06	3,776938E+08	1,009993E+09	1,379759E+09	1,379778E+09	1,010048E+09	3,777732E+08
-394	8,115370E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118159E+06	3,777485E+08	1,010007E+09	1,379732E+09	1,379720E+09	1,009983E+09	3,777142E+08
-393	8,116881E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113350E+06	3,777426E+08	1,010003E+09	1,379717E+09	1,379684E+09	1,009931E+09	3,776873E+08
-392	8,111652E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113596E+06	3,776444E+08	1,009877E+09	1,379619E+09	1,379652E+09	1,009963E+09	3,777524E+08
-391	8,119716E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117915E+06	3,777262E+08	1,009905E+09	1,379578E+09	1,379566E+09	1,009860E+09	3,776513E+08
-390	8,115011E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113562E+06	3,776697E+08	1,009854E+09	1,379538E+09	1,379532E+09	1,009848E+09	3,776797E+08
-389	8,114582E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116347E+06	3,776360E+08	1,009791E+09	1,379466E+09	1,379481E+09	1,009835E+09	3,776946E+08
-388	8,119792E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118522E+06	3,777130E+08	1,009854E+09	1,379489E+09	1,379447E+09	1,009751E+09	3,776054E+08
-387	8,113661E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113160E+06	3,776195E+08	1,009780E+09	1,379470E+09	1,379482E+09	1,009824E+09	3,776891E+08
-386	8,117374E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118727E+06	3,776544E+08	1,009793E+09	1,379466E+09	1,379473E+09	1,009811E+09	3,776626E+08
-385	8,118315E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116705E+06	3,776984E+08	1,009846E+09	1,379505E+09	1,379484E+09	1,009787E+09	3,776238E+08
-384	8,113303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113121E+06	3,776140E+08	1,009783E+09	1,379488E+09	1,379530E+09	1,009883E+09	3,777218E+08
-383	8,117951E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120061E+06	3,777113E+08	1,009874E+09	1,379537E+09	1,379531E+09	1,009851E+09	3,776593E+08
-382	8,116467E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112825E+06	3,776970E+08	1,009910E+09	1,379606E+09	1,379588E+09	1,009880E+09	3,776843E+08
-381	8,113559E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114761E+06	3,776495E+08	1,009872E+09	1,379600E+09	1,379626E+09	1,009942E+09	3,777411E+08
-380	8,118808E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118032E+06	3,777509E+08	1,009965E+09	1,379657E+09	1,379635E+09	1,009897E+09	3,776573E+08
-379	8,114181E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,111544E+06	3,776864E+08	1,009934E+09	1,379668E+09	1,379679E+09	1,009965E+09	3,777280E+08
-378	8,113338E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118005E+06	3,776986E+08	1,009933E+09	1,379657E+09	1,379666E+09	1,009962E+09	3,777281E+08
-377	8,118505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115546E+06	3,777595E+08	1,009992E+09	1,379685E+09	1,379647E+09	1,009898E+09	3,776568E+08
-376	8,111707E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112531E+06	3,776528E+08	1,009889E+09	1,379625E+09	1,379648E+09	1,009954E+09	3,777453E+08
-375	8,117057E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118107E+06	3,777028E+08	1,009895E+09	1,379584E+09	1,379584E+09	1,009891E+09	3,776848E+08
-374	8,118398E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113683E+06	3,776947E+08	1,009880E+09	1,379562E+09	1,379540E+09	1,009833E+09	3,776536E+08
-373	8,112898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114786E+06	3,776091E+08	1,009761E+09	1,379451E+09	1,379484E+09	1,009842E+09	3,777074E+08

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	8,120215E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119253E+06	3,776945E+08	1,009804E+09	1,379426E+09	1,379405E+09	1,009739E+09	3,776037E+08
-371	8,115042E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114841E+06	3,776397E+08	1,009761E+09	1,379400E+09	1,379385E+09	1,009737E+09	3,776385E+08
-370	8,115158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117410E+06	3,776045E+08	1,009709E+09	1,379360E+09	1,379365E+09	1,009740E+09	3,776595E+08
-369	8,120653E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119315E+06	3,776782E+08	1,009763E+09	1,379377E+09	1,379342E+09	1,009671E+09	3,775726E+08
-368	8,114330E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113598E+06	3,775828E+08	1,009679E+09	1,379338E+09	1,379364E+09	1,009745E+09	3,776629E+08
-367	8,118284E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119356E+06	3,776235E+08	1,009702E+09	1,379335E+09	1,379351E+09	1,009735E+09	3,776380E+08
-366	8,119130E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117067E+06	3,776672E+08	1,009764E+09	1,379389E+09	1,379368E+09	1,009708E+09	3,775995E+08
-365	8,114246E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113903E+06	3,775892E+08	1,009707E+09	1,379375E+09	1,379407E+09	1,009789E+09	3,776892E+08
-364	8,118585E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120482E+06	3,776812E+08	1,009797E+09	1,379432E+09	1,379421E+09	1,009761E+09	3,776247E+08
-363	8,116985E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113418E+06	3,776668E+08	1,009826E+09	1,379496E+09	1,379480E+09	1,009799E+09	3,776527E+08
-362	8,114046E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115945E+06	3,776225E+08	1,009795E+09	1,379502E+09	1,379526E+09	1,009864E+09	3,777096E+08
-361	8,119172E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118956E+06	3,777250E+08	1,009884E+09	1,379545E+09	1,379527E+09	1,009820E+09	3,776257E+08
-360	8,114321E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,112146E+06	3,776560E+08	1,009846E+09	1,379540E+09	1,379552E+09	1,009879E+09	3,777015E+08
-359	8,114343E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118100E+06	3,776626E+08	1,009843E+09	1,379529E+09	1,379539E+09	1,009876E+09	3,777026E+08
-358	8,119995E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115462E+06	3,777148E+08	1,009890E+09	1,379556E+09	1,379522E+09	1,009808E+09	3,776290E+08
-357	8,113268E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113316E+06	3,776136E+08	1,009777E+09	1,379473E+09	1,379499E+09	1,009844E+09	3,777054E+08
-356	8,118116E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119044E+06	3,776647E+08	1,009783E+09	1,379429E+09	1,379432E+09	1,009778E+09	3,776394E+08
-355	8,118464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115411E+06	3,776655E+08	1,009776E+09	1,379407E+09	1,379383E+09	1,009720E+09	3,776096E+08
-354	8,113088E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116409E+06	3,775841E+08	1,009681E+09	1,379330E+09	1,379345E+09	1,009732E+09	3,776646E+08
-353	8,120438E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120378E+06	3,776653E+08	1,009722E+09	1,379311E+09	1,379283E+09	1,009643E+09	3,775662E+08
-352	8,115502E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115161E+06	3,776007E+08	1,009663E+09	1,379274E+09	1,379262E+09	1,009646E+09	3,776089E+08
-351	8,116565E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117435E+06	3,775621E+08	1,009606E+09	1,379228E+09	1,379247E+09	1,009662E+09	3,776338E+08
-350	8,121945E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119623E+06	3,776347E+08	1,009654E+09	1,379242E+09	1,379221E+09	1,009592E+09	3,775471E+08
-349	8,115500E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114514E+06	3,775513E+08	1,009575E+09	1,379189E+09	1,379218E+09	1,009644E+09	3,776283E+08
-348	8,118843E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120068E+06	3,775927E+08	1,009614E+09	1,379204E+09	1,379214E+09	1,009634E+09	3,776021E+08
-347	8,119450E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117872E+06	3,776388E+08	1,009682E+09	1,379272E+09	1,379242E+09	1,009614E+09	3,775672E+08
-346	8,114957E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114655E+06	3,775622E+08	1,009640E+09	1,379287E+09	1,379306E+09	1,009705E+09	3,776573E+08
-345	8,119182E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121130E+06	3,776531E+08	1,009723E+09	1,379337E+09	1,379329E+09	1,009691E+09	3,775955E+08
-344	8,117484E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113893E+06	3,776374E+08	1,009741E+09	1,379381E+09	1,379373E+09	1,009726E+09	3,776271E+08
-343	8,114758E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116617E+06	3,775960E+08	1,009715E+09	1,379385E+09	1,379416E+09	1,009793E+09	3,776855E+08
-342	8,119996E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119285E+06	3,776926E+08	1,009802E+09	1,379433E+09	1,379414E+09	1,009742E+09	3,776013E+08
-341	8,115344E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,113015E+06	3,776254E+08	1,009756E+09	1,379414E+09	1,379418E+09	1,009778E+09	3,776668E+08
-340	8,115229E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118424E+06	3,776233E+08	1,009745E+09	1,379398E+09	1,379407E+09	1,009774E+09	3,776647E+08
-339	8,120593E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116435E+06	3,776760E+08	1,009781E+09	1,379410E+09	1,379381E+09	1,009706E+09	3,775903E+08
-338	8,113779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114835E+06	3,775827E+08	1,009680E+09	1,379339E+09	1,379358E+09	1,009737E+09	3,776618E+08
-337	8,118245E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120398E+06	3,776364E+08	1,009688E+09	1,379289E+09	1,379288E+09	1,009673E+09	3,775976E+08

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	8,118437E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116336E+06	3,776330E+08	1,009680E+09	1,379264E+09	1,379233E+09	1,009613E+09	3,775745E+08
-335	8,114206E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116674E+06	3,775465E+08	1,009585E+09	1,379198E+09	1,379213E+09	1,009638E+09	3,776346E+08
-334	8,121932E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120316E+06	3,776175E+08	1,009616E+09	1,379183E+09	1,379161E+09	1,009556E+09	3,775405E+08
-333	8,117315E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115764E+06	3,775588E+08	1,009550E+09	1,379128E+09	1,379123E+09	1,009547E+09	3,775747E+08
-332	8,117820E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118001E+06	3,775224E+08	1,009498E+09	1,379082E+09	1,379109E+09	1,009563E+09	3,775963E+08
-331	8,122141E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120965E+06	3,776046E+08	1,009557E+09	1,379101E+09	1,379081E+09	1,009495E+09	3,775119E+08
-330	8,115882E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115817E+06	3,775301E+08	1,009507E+09	1,379085E+09	1,379096E+09	1,009547E+09	3,775910E+08
-329	8,118889E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120963E+06	3,775678E+08	1,009544E+09	1,379107E+09	1,379109E+09	1,009551E+09	3,775704E+08
-328	8,119838E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118108E+06	3,776073E+08	1,009602E+09	1,379167E+09	1,379138E+09	1,009537E+09	3,775424E+08
-327	8,116131E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114884E+06	3,775291E+08	1,009556E+09	1,379179E+09	1,379210E+09	1,009639E+09	3,776338E+08
-326	8,120106E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121484E+06	3,776186E+08	1,009634E+09	1,379225E+09	1,379227E+09	1,009623E+09	3,775732E+08
-325	8,118422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114885E+06	3,776114E+08	1,009654E+09	1,379252E+09	1,379243E+09	1,009634E+09	3,775946E+08
-324	8,115167E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117202E+06	3,775663E+08	1,009633E+09	1,379265E+09	1,379287E+09	1,009696E+09	3,776507E+08
-323	8,120296E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120024E+06	3,776600E+08	1,009714E+09	1,379313E+09	1,379287E+09	1,009647E+09	3,775684E+08
-322	8,116131E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114094E+06	3,775951E+08	1,009675E+09	1,379305E+09	1,379299E+09	1,009680E+09	3,776290E+08
-321	8,115770E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119385E+06	3,775905E+08	1,009650E+09	1,379273E+09	1,379285E+09	1,009683E+09	3,776286E+08
-320	8,121005E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117398E+06	3,776423E+08	1,009677E+09	1,379266E+09	1,379240E+09	1,009609E+09	3,775568E+08
-319	8,114575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115641E+06	3,775505E+08	1,009585E+09	1,379199E+09	1,379221E+09	1,009642E+09	3,776286E+08
-318	8,119231E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120672E+06	3,775972E+08	1,009593E+09	1,379160E+09	1,379155E+09	1,009577E+09	3,775679E+08
-317	8,119735E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116935E+06	3,775928E+08	1,009575E+09	1,379123E+09	1,379088E+09	1,009502E+09	3,775374E+08
-316	8,115658E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116699E+06	3,775000E+08	1,009475E+09	1,379058E+09	1,379075E+09	1,009533E+09	3,775972E+08
-315	8,122828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121308E+06	3,775739E+08	1,009498E+09	1,379033E+09	1,379020E+09	1,009456E+09	3,775048E+08
-314	8,118125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117297E+06	3,775276E+08	1,009451E+09	1,378990E+09	1,378983E+09	1,009444E+09	3,775336E+08
-313	8,117938E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119392E+06	3,774958E+08	1,009406E+09	1,378947E+09	1,378972E+09	1,009466E+09	3,775586E+08
-312	8,122039E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121807E+06	3,775746E+08	1,009469E+09	1,378971E+09	1,378945E+09	1,009398E+09	3,774807E+08
-311	8,116812E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116063E+06	3,774991E+08	1,009426E+09	1,378974E+09	1,378985E+09	1,009465E+09	3,775634E+08
-310	8,120023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121024E+06	3,775307E+08	1,009460E+09	1,379004E+09	1,379011E+09	1,009477E+09	3,775480E+08
-309	8,121244E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118773E+06	3,775766E+08	1,009513E+09	1,379049E+09	1,379024E+09	1,009454E+09	3,775126E+08
-308	8,117041E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115594E+06	3,775014E+08	1,009475E+09	1,379066E+09	1,379097E+09	1,009556E+09	3,776016E+08
-307	8,120109E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122754E+06	3,775952E+08	1,009558E+09	1,379113E+09	1,379111E+09	1,009540E+09	3,775436E+08
-306	8,118791E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116147E+06	3,775921E+08	1,009595E+09	1,379162E+09	1,379136E+09	1,009545E+09	3,775590E+08
-305	8,115128E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117990E+06	3,775393E+08	1,009558E+09	1,379165E+09	1,379184E+09	1,009614E+09	3,776188E+08
-304	8,120719E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120193E+06	3,776219E+08	1,009619E+09	1,379192E+09	1,379172E+09	1,009563E+09	3,775408E+08
-303	8,117300E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,114593E+06	3,775572E+08	1,009571E+09	1,379171E+09	1,379180E+09	1,009598E+09	3,775996E+08
-302	8,116908E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119744E+06	3,775501E+08	1,009542E+09	1,379130E+09	1,379150E+09	1,009591E+09	3,776000E+08
-301	8,122228E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118365E+06	3,776074E+08	1,009570E+09	1,379109E+09	1,379080E+09	1,009494E+09	3,775195E+08

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												
-300	8,115640E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116078E+06	3,775116E+08	1,009484E+09	1,379056E+09	1,379067E+09	1,009525E+09	3,775875E+08
-299	8,119952E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121355E+06	3,775558E+08	1,009487E+09	1,379021E+09	1,379012E+09	1,009468E+09	3,775305E+08
-298	8,120807E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118191E+06	3,775574E+08	1,009480E+09	1,378997E+09	1,378957E+09	1,009396E+09	3,774945E+08
-297	8,116237E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117937E+06	3,774659E+08	1,009370E+09	1,378920E+09	1,378945E+09	1,009438E+09	3,775580E+08
-296	8,122998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122581E+06	3,775406E+08	1,009393E+09	1,378884E+09	1,378877E+09	1,009359E+09	3,774709E+08
-295	8,118780E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118390E+06	3,774990E+08	1,009358E+09	1,378855E+09	1,378852E+09	1,009352E+09	3,775014E+08
-294	8,118779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119799E+06	3,774619E+08	1,009319E+09	1,378829E+09	1,378850E+09	1,009376E+09	3,775313E+08
-293	8,123117E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122272E+06	3,775399E+08	1,009378E+09	1,378848E+09	1,378819E+09	1,009303E+09	3,774497E+08
-292	8,118159E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115997E+06	3,774620E+08	1,009338E+09	1,378861E+09	1,378872E+09	1,009377E+09	3,775302E+08
-291	8,120518E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121948E+06	3,774982E+08	1,009369E+09	1,378888E+09	1,378901E+09	1,009398E+09	3,775181E+08
-290	8,121829E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120142E+06	3,775564E+08	1,009442E+09	1,378945E+09	1,378916E+09	1,009370E+09	3,774767E+08
-289	8,116890E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116887E+06	3,774822E+08	1,009405E+09	1,378961E+09	1,378989E+09	1,009476E+09	3,775698E+08
-288	8,120046E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123279E+06	3,775658E+08	1,009479E+09	1,379004E+09	1,378997E+09	1,009458E+09	3,775181E+08
-287	8,119845E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116262E+06	3,775570E+08	1,009507E+09	1,379053E+09	1,379035E+09	1,009471E+09	3,775352E+08
-286	8,116545E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117872E+06	3,774971E+08	1,009460E+09	1,379047E+09	1,379075E+09	1,009537E+09	3,775962E+08
-285	8,122352E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120655E+06	3,775821E+08	1,009508E+09	1,379044E+09	1,379033E+09	1,009466E+09	3,775085E+08
-284	8,118460E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,115295E+06	3,775230E+08	1,009471E+09	1,379028E+09	1,379034E+09	1,009491E+09	3,775599E+08
-283	8,117241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121050E+06	3,775204E+08	1,009448E+09	1,378992E+09	1,379005E+09	1,009482E+09	3,775605E+08
-282	8,122743E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119896E+06	3,775823E+08	1,009493E+09	1,378991E+09	1,378944E+09	1,009383E+09	3,774743E+08
-281	8,115807E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117227E+06	3,774802E+08	1,009394E+09	1,378934E+09	1,378942E+09	1,009425E+09	3,775473E+08
-280	8,120445E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121991E+06	3,775139E+08	1,009378E+09	1,378881E+09	1,378879E+09	1,009372E+09	3,774967E+08
-279	8,121825E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119234E+06	3,775173E+08	1,009363E+09	1,378850E+09	1,378828E+09	1,009307E+09	3,774617E+08
-278	8,117329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118603E+06	3,774274E+08	1,009258E+09	1,378769E+09	1,378803E+09	1,009343E+09	3,775274E+08
-277	8,123967E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123415E+06	3,775038E+08	1,009285E+09	1,378728E+09	1,378717E+09	1,009246E+09	3,774353E+08
-276	8,119898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118610E+06	3,774621E+08	1,009264E+09	1,378721E+09	1,378706E+09	1,009241E+09	3,774637E+08
-275	8,119552E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120349E+06	3,774256E+08	1,009227E+09	1,378708E+09	1,378725E+09	1,009279E+09	3,774979E+08
-274	8,124111E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123349E+06	3,775129E+08	1,009303E+09	1,378744E+09	1,378710E+09	1,009214E+09	3,774131E+08
-273	8,118619E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117191E+06	3,774387E+08	1,009261E+09	1,378756E+09	1,378772E+09	1,009302E+09	3,774968E+08
-272	8,120407E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123009E+06	3,774740E+08	1,009292E+09	1,378778E+09	1,378794E+09	1,009324E+09	3,774920E+08
-271	8,122333E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120884E+06	3,775323E+08	1,009369E+09	1,378845E+09	1,378822E+09	1,009303E+09	3,774525E+08
-270	8,117697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116964E+06	3,774500E+08	1,009327E+09	1,378861E+09	1,378890E+09	1,009405E+09	3,775488E+08
-269	8,121241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123152E+06	3,775257E+08	1,009383E+09	1,378881E+09	1,378879E+09	1,009373E+09	3,774924E+08
-268	8,121404E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116220E+06	3,775163E+08	1,009408E+09	1,378924E+09	1,378909E+09	1,009380E+09	3,775022E+08
-267	8,117172E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118936E+06	3,774626E+08	1,009356E+09	1,378907E+09	1,378941E+09	1,009442E+09	3,775608E+08
-266	8,122932E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122370E+06	3,775615E+08	1,009426E+09	1,378912E+09	1,378893E+09	1,009360E+09	3,774649E+08
-265	8,118236E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,116936E+06	3,775017E+08	1,009391E+09	1,378902E+09	1,378897E+09	1,009387E+09	3,775167E+08



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	8,117204E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121831E+06	3,774880E+08	1,009359E+09	1,378866E+09	1,378870E+09	1,009379E+09	3,775242E+08
-263	8,123594E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120539E+06	3,775433E+08	1,009391E+09	1,378866E+09	1,378828E+09	1,009293E+09	3,774424E+08
-262	8,117228E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117533E+06	3,774363E+08	1,009283E+09	1,378798E+09	1,378817E+09	1,009337E+09	3,775190E+08
-261	8,122055E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122531E+06	3,774690E+08	1,009255E+09	1,378718E+09	1,378728E+09	1,009269E+09	3,774638E+08
-260	8,123148E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120010E+06	3,774785E+08	1,009253E+09	1,378693E+09	1,378669E+09	1,009197E+09	3,774232E+08
-259	8,117965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119643E+06	3,773939E+08	1,009157E+09	1,378624E+09	1,378652E+09	1,009233E+09	3,774889E+08
-258	8,124624E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124618E+06	3,774764E+08	1,009204E+09	1,378606E+09	1,378581E+09	1,009136E+09	3,773920E+08
-257	8,120188E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119483E+06	3,774326E+08	1,009180E+09	1,378608E+09	1,378590E+09	1,009148E+09	3,774247E+08
-256	8,119937E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120985E+06	3,773908E+08	1,009135E+09	1,378591E+09	1,378612E+09	1,009196E+09	3,774665E+08
-255	8,124743E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124260E+06	3,774811E+08	1,009208E+09	1,378627E+09	1,378611E+09	1,009146E+09	3,773878E+08
-254	8,119633E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117753E+06	3,774097E+08	1,009176E+09	1,378640E+09	1,378664E+09	1,009232E+09	3,774746E+08
-253	8,121216E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123354E+06	3,774404E+08	1,009203E+09	1,378651E+09	1,378666E+09	1,009237E+09	3,774662E+08
-252	8,123501E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120698E+06	3,774959E+08	1,009284E+09	1,378730E+09	1,378699E+09	1,009213E+09	3,774226E+08
-251	8,118442E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117486E+06	3,774160E+08	1,009237E+09	1,378744E+09	1,378774E+09	1,009317E+09	3,775183E+08
-250	8,122096E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124206E+06	3,774994E+08	1,009303E+09	1,378765E+09	1,378761E+09	1,009281E+09	3,774543E+08
-249	8,121574E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117779E+06	3,774960E+08	1,009328E+09	1,378805E+09	1,378789E+09	1,009291E+09	3,774635E+08
-248	8,116997E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120352E+06	3,774402E+08	1,009277E+09	1,378784E+09	1,378813E+09	1,009348E+09	3,775251E+08
-247	8,123182E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123443E+06	3,775357E+08	1,009346E+09	1,378802E+09	1,378781E+09	1,009275E+09	3,774344E+08
-246	8,119120E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117272E+06	3,774667E+08	1,009304E+09	1,378789E+09	1,378784E+09	1,009301E+09	3,774885E+08
-245	8,118562E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121584E+06	3,774404E+08	1,009248E+09	1,378727E+09	1,378738E+09	1,009284E+09	3,774940E+08
-244	8,125250E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120589E+06	3,774937E+08	1,009273E+09	1,378716E+09	1,378684E+09	1,009194E+09	3,774074E+08
-243	8,118212E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118611E+06	3,773955E+08	1,009160E+09	1,378634E+09	1,378662E+09	1,009231E+09	3,774816E+08
-242	8,122952E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124085E+06	3,774402E+08	1,009154E+09	1,378561E+09	1,378566E+09	1,009151E+09	3,774182E+08
-241	8,123172E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121620E+06	3,774512E+08	1,009160E+09	1,378550E+09	1,378516E+09	1,009082E+09	3,773785E+08
-240	8,118217E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120296E+06	3,773590E+08	1,009063E+09	1,378491E+09	1,378511E+09	1,009125E+09	3,774500E+08
-239	8,125320E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125272E+06	3,774390E+08	1,009107E+09	1,378489E+09	1,378473E+09	1,009052E+09	3,773621E+08
-238	8,121522E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119805E+06	3,773960E+08	1,009086E+09	1,378490E+09	1,378482E+09	1,009072E+09	3,773983E+08
-237	8,121124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121419E+06	3,773547E+08	1,009037E+09	1,378458E+09	1,378489E+09	1,009113E+09	3,774396E+08
-236	8,125732E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124859E+06	3,774509E+08	1,009124E+09	1,378506E+09	1,378485E+09	1,009061E+09	3,773587E+08
-235	8,120129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118661E+06	3,773835E+08	1,009097E+09	1,378527E+09	1,378546E+09	1,009146E+09	3,774450E+08
-234	8,121680E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124248E+06	3,774170E+08	1,009134E+09	1,378548E+09	1,378554E+09	1,009148E+09	3,774309E+08
-233	8,123697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121445E+06	3,774683E+08	1,009206E+09	1,378625E+09	1,378593E+09	1,009131E+09	3,773881E+08
-232	8,118632E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118285E+06	3,773854E+08	1,009150E+09	1,378627E+09	1,378660E+09	1,009234E+09	3,774856E+08
-231	8,122391E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125237E+06	3,774713E+08	1,009213E+09	1,378648E+09	1,378655E+09	1,009205E+09	3,774268E+08
-230	8,122382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118524E+06	3,774698E+08	1,009247E+09	1,378687E+09	1,378670E+09	1,009208E+09	3,774361E+08
-229	8,117892E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120539E+06	3,774038E+08	1,009186E+09	1,378655E+09	1,378677E+09	1,009251E+09	3,774956E+08

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	8,124577E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123185E+06	3,774925E+08	1,009250E+09	1,378675E+09	1,378647E+09	1,009177E+09	3,774029E+08
-227	8,120310E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,117815E+06	3,774237E+08	1,009195E+09	1,378652E+09	1,378652E+09	1,009204E+09	3,774549E+08
-226	8,119867E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122584E+06	3,774047E+08	1,009142E+09	1,378580E+09	1,378595E+09	1,009179E+09	3,774517E+08
-225	8,125556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122338E+06	3,774634E+08	1,009168E+09	1,378565E+09	1,378536E+09	1,009087E+09	3,773639E+08
-224	8,118269E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120161E+06	3,773669E+08	1,009062E+09	1,378484E+09	1,378506E+09	1,009117E+09	3,774390E+08
-223	8,123214E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125213E+06	3,774073E+08	1,009057E+09	1,378430E+09	1,378432E+09	1,009049E+09	3,773828E+08
-222	8,124069E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122102E+06	3,774148E+08	1,009066E+09	1,378425E+09	1,378389E+09	1,008986E+09	3,773469E+08
-221	8,119600E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120112E+06	3,773132E+08	1,008956E+09	1,378354E+09	1,378378E+09	1,009028E+09	3,774179E+08
-220	8,126637E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125459E+06	3,773953E+08	1,009002E+09	1,378353E+09	1,378340E+09	1,008962E+09	3,773314E+08
-219	8,122417E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120862E+06	3,773636E+08	1,008986E+09	1,378355E+09	1,378354E+09	1,008983E+09	3,773667E+08
-218	8,121744E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122752E+06	3,773333E+08	1,008959E+09	1,378334E+09	1,378358E+09	1,009017E+09	3,774019E+08
-217	8,125581E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126069E+06	3,774277E+08	1,009051E+09	1,378396E+09	1,378365E+09	1,008970E+09	3,773235E+08
-216	8,120338E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119215E+06	3,773543E+08	1,009018E+09	1,378420E+09	1,378432E+09	1,009058E+09	3,774133E+08
-215	8,122144E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124754E+06	3,773830E+08	1,009048E+09	1,378448E+09	1,378463E+09	1,009078E+09	3,774073E+08
-214	8,124905E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121829E+06	3,774374E+08	1,009122E+09	1,378516E+09	1,378493E+09	1,009062E+09	3,773655E+08
-213	8,119671E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118667E+06	3,773531E+08	1,009061E+09	1,378503E+09	1,378539E+09	1,009151E+09	3,774584E+08
-212	8,123292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125576E+06	3,774409E+08	1,009134E+09	1,378531E+09	1,378528E+09	1,009117E+09	3,773984E+08
-211	8,123124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119301E+06	3,774399E+08	1,009165E+09	1,378573E+09	1,378549E+09	1,009115E+09	3,774036E+08
-210	8,118675E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121322E+06	3,773746E+08	1,009104E+09	1,378538E+09	1,378553E+09	1,009152E+09	3,774561E+08
-209	8,124967E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124105E+06	3,774570E+08	1,009153E+09	1,378547E+09	1,378520E+09	1,009081E+09	3,773639E+08
-208	8,120671E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119046E+06	3,773863E+08	1,009085E+09	1,378504E+09	1,378510E+09	1,009102E+09	3,774160E+08
-207	8,120313E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123881E+06	3,773691E+08	1,009030E+09	1,378433E+09	1,378458E+09	1,009082E+09	3,774181E+08
-206	8,126346E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123436E+06	3,774301E+08	1,009066E+09	1,378416E+09	1,378385E+09	1,008982E+09	3,773296E+08
-205	8,119255E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120303E+06	3,773244E+08	1,008954E+09	1,378333E+09	1,378347E+09	1,009001E+09	3,774021E+08
-204	8,124589E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125068E+06	3,773614E+08	1,008952E+09	1,378290E+09	1,378284E+09	1,008940E+09	3,773478E+08
-203	8,125264E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122695E+06	3,773727E+08	1,008959E+09	1,378288E+09	1,378255E+09	1,008886E+09	3,773119E+08
-202	8,120929E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121207E+06	3,772832E+08	1,008861E+09	1,378220E+09	1,378245E+09	1,008929E+09	3,773777E+08
-201	8,126780E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127158E+06	3,773701E+08	1,008915E+09	1,378225E+09	1,378213E+09	1,008870E+09	3,772950E+08
-200	8,122552E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122181E+06	3,773394E+08	1,008906E+09	1,378237E+09	1,378229E+09	1,008892E+09	3,773321E+08
-199	8,121904E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123562E+06	3,773036E+08	1,008879E+09	1,378236E+09	1,378260E+09	1,008940E+09	3,773758E+08
-198	8,126383E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126182E+06	3,773937E+08	1,008971E+09	1,378296E+09	1,378268E+09	1,008897E+09	3,773001E+08
-197	8,121567E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,118793E+06	3,773125E+08	1,008923E+09	1,378301E+09	1,378319E+09	1,008978E+09	3,773878E+08
-196	8,123326E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124855E+06	3,773449E+08	1,008953E+09	1,378322E+09	1,378341E+09	1,008997E+09	3,773819E+08
-195	8,125825E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122861E+06	3,774101E+08	1,009033E+09	1,378389E+09	1,378370E+09	1,008976E+09	3,773363E+08
-194	8,120362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120076E+06	3,773347E+08	1,008989E+09	1,378383E+09	1,378408E+09	1,009052E+09	3,774190E+08
-193	8,123193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126679E+06	3,774160E+08	1,009059E+09	1,378422E+09	1,378407E+09	1,009021E+09	3,773612E+08

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												
-192	8,123443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120132E+06	3,774077E+08	1,009078E+09	1,378459E+09	1,378429E+09	1,009020E+09	3,773669E+08
-191	8,119124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122017E+06	3,773357E+08	1,009003E+09	1,378420E+09	1,378445E+09	1,009069E+09	3,774266E+08
-190	8,126101E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124825E+06	3,774201E+08	1,009050E+09	1,378412E+09	1,378394E+09	1,008995E+09	3,773350E+08
-189	8,121729E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119768E+06	3,773481E+08	1,008975E+09	1,378349E+09	1,378357E+09	1,008997E+09	3,773823E+08
-188	8,121455E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124321E+06	3,773310E+08	1,008928E+09	1,378283E+09	1,378299E+09	1,008973E+09	3,773841E+08
-187	8,127342E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124270E+06	3,773922E+08	1,008964E+09	1,378276E+09	1,378238E+09	1,008871E+09	3,772926E+08
-186	8,120461E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120975E+06	3,772891E+08	1,008857E+09	1,378196E+09	1,378203E+09	1,008887E+09	3,773565E+08
-185	8,125054E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125974E+06	3,773230E+08	1,008851E+09	1,378157E+09	1,378150E+09	1,008836E+09	3,773063E+08
-184	8,125660E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124011E+06	3,773375E+08	1,008853E+09	1,378149E+09	1,378120E+09	1,008787E+09	3,772727E+08
-183	8,121303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122533E+06	3,772527E+08	1,008765E+09	1,378094E+09	1,378127E+09	1,008844E+09	3,773472E+08
-182	8,127387E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128162E+06	3,773413E+08	1,008830E+09	1,378104E+09	1,378090E+09	1,008785E+09	3,772687E+08
-181	8,123586E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122066E+06	3,773004E+08	1,008813E+09	1,378113E+09	1,378103E+09	1,008801E+09	3,773048E+08
-180	8,123213E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123248E+06	3,772620E+08	1,008785E+09	1,378115E+09	1,378140E+09	1,008856E+09	3,773504E+08
-179	8,127572E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126569E+06	3,773564E+08	1,008874E+09	1,378175E+09	1,378156E+09	1,008816E+09	3,772723E+08
-178	8,122668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119911E+06	3,772905E+08	1,008842E+09	1,378181E+09	1,378199E+09	1,008888E+09	3,773497E+08
-177	8,123167E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126560E+06	3,773279E+08	1,008884E+09	1,378214E+09	1,378224E+09	1,008908E+09	3,773460E+08
-176	8,125775E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124245E+06	3,773914E+08	1,008966E+09	1,378286E+09	1,378254E+09	1,008886E+09	3,773015E+08
-175	8,120441E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121018E+06	3,773082E+08	1,008918E+09	1,378295E+09	1,378316E+09	1,008976E+09	3,773915E+08
-174	8,124014E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126882E+06	3,773809E+08	1,008976E+09	1,378317E+09	1,378306E+09	1,008945E+09	3,773362E+08
-173	8,124685E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,119933E+06	3,773606E+08	1,008968E+09	1,378324E+09	1,378305E+09	1,008933E+09	3,773386E+08
-172	8,120428E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122219E+06	3,772920E+08	1,008888E+09	1,378268E+09	1,378302E+09	1,008976E+09	3,773975E+08
-171	8,127261E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125733E+06	3,773820E+08	1,008937E+09	1,378255E+09	1,378242E+09	1,008889E+09	3,773006E+08
-170	8,122752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121079E+06	3,773193E+08	1,008877E+09	1,378196E+09	1,378192E+09	1,008873E+09	3,773359E+08
-169	8,121912E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125282E+06	3,772963E+08	1,008831E+09	1,378144E+09	1,378146E+09	1,008851E+09	3,773390E+08
-168	8,127940E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125279E+06	3,773535E+08	1,008859E+09	1,378137E+09	1,378096E+09	1,008759E+09	3,772498E+08
-167	8,121186E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121934E+06	3,772499E+08	1,008752E+09	1,378070E+09	1,378084E+09	1,008795E+09	3,773212E+08
-166	8,125992E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127033E+06	3,772892E+08	1,008751E+09	1,378025E+09	1,378027E+09	1,008750E+09	3,772755E+08
-165	8,126488E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124733E+06	3,773012E+08	1,008752E+09	1,378009E+09	1,377984E+09	1,008694E+09	3,772417E+08
-164	8,122376E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122946E+06	3,772181E+08	1,008672E+09	1,377962E+09	1,377992E+09	1,008752E+09	3,773188E+08
-163	8,128263E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128706E+06	3,773049E+08	1,008737E+09	1,377983E+09	1,377969E+09	1,008696E+09	3,772397E+08
-162	8,124785E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122631E+06	3,772694E+08	1,008724E+09	1,377989E+09	1,377978E+09	1,008705E+09	3,772664E+08
-161	8,123556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124157E+06	3,772307E+08	1,008697E+09	1,377996E+09	1,378022E+09	1,008766E+09	3,773146E+08
-160	8,127786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127916E+06	3,773311E+08	1,008787E+09	1,378054E+09	1,378038E+09	1,008730E+09	3,772382E+08
-159	8,122815E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121230E+06	3,772696E+08	1,008770E+09	1,378081E+09	1,378096E+09	1,008810E+09	3,773205E+08
-158	8,123511E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127398E+06	3,773054E+08	1,008819E+09	1,378117E+09	1,378121E+09	1,008831E+09	3,773206E+08
-157	8,126696E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123948E+06	3,773542E+08	1,008883E+09	1,378180E+09	1,378145E+09	1,008804E+09	3,772758E+08

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												
-156	8,121773E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,120706E+06	3,772664E+08	1,008822E+09	1,378175E+09	1,378202E+09	1,008897E+09	3,773678E+08
-155	8,125484E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127091E+06	3,773383E+08	1,008869E+09	1,378185E+09	1,378187E+09	1,008863E+09	3,773094E+08
-154	8,126057E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121150E+06	3,773303E+08	1,008866E+09	1,378176E+09	1,378161E+09	1,008831E+09	3,772983E+08
-153	8,120710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123765E+06	3,772653E+08	1,008794E+09	1,378126E+09	1,378153E+09	1,008864E+09	3,773552E+08
-152	8,127516E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127199E+06	3,773531E+08	1,008843E+09	1,378117E+09	1,378094E+09	1,008775E+09	3,772572E+08
-151	8,122961E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122194E+06	3,772863E+08	1,008786E+09	1,378079E+09	1,378067E+09	1,008770E+09	3,772961E+08
-150	8,122717E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125796E+06	3,772586E+08	1,008735E+09	1,378018E+09	1,378022E+09	1,008755E+09	3,773034E+08
-149	8,128905E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125536E+06	3,773062E+08	1,008743E+09	1,377991E+09	1,377959E+09	1,008662E+09	3,772163E+08
-148	8,122427E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122558E+06	3,772097E+08	1,008637E+09	1,377914E+09	1,377940E+09	1,008702E+09	3,772907E+08
-147	8,127075E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128041E+06	3,772530E+08	1,008644E+09	1,377876E+09	1,377883E+09	1,008653E+09	3,772440E+08
-146	8,127523E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125897E+06	3,772714E+08	1,008657E+09	1,377867E+09	1,377835E+09	1,008584E+09	3,772011E+08
-145	8,122938E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123686E+06	3,771849E+08	1,008580E+09	1,377836E+09	1,377858E+09	1,008647E+09	3,772796E+08
-144	8,128710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129430E+06	3,772683E+08	1,008640E+09	1,377857E+09	1,377844E+09	1,008600E+09	3,772034E+08
-143	8,125385E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123483E+06	3,772391E+08	1,008638E+09	1,377883E+09	1,377874E+09	1,008626E+09	3,772358E+08
-142	8,124177E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125281E+06	3,772084E+08	1,008623E+09	1,377889E+09	1,377917E+09	1,008691E+09	3,772873E+08
-141	8,128317E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128352E+06	3,773034E+08	1,008711E+09	1,377944E+09	1,377926E+09	1,008653E+09	3,772140E+08
-140	8,123884E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121464E+06	3,772416E+08	1,008697E+09	1,377976E+09	1,377990E+09	1,008737E+09	3,772978E+08
-139	8,124526E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127438E+06	3,772692E+08	1,008735E+09	1,378014E+09	1,378021E+09	1,008756E+09	3,772965E+08
-138	8,128034E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124177E+06	3,773185E+08	1,008790E+09	1,378058E+09	1,378027E+09	1,008715E+09	3,772405E+08
-137	8,122333E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,121597E+06	3,772314E+08	1,008721E+09	1,378042E+09	1,378073E+09	1,008802E+09	3,773303E+08
-136	8,125816E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128456E+06	3,773068E+08	1,008764E+09	1,378039E+09	1,378046E+09	1,008763E+09	3,772705E+08
-135	8,126188E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122868E+06	3,773055E+08	1,008777E+09	1,378046E+09	1,378025E+09	1,008730E+09	3,772607E+08
-134	8,121113E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124899E+06	3,772386E+08	1,008711E+09	1,378000E+09	1,378016E+09	1,008760E+09	3,773176E+08
-133	8,128283E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127259E+06	3,773105E+08	1,008742E+09	1,377982E+09	1,377955E+09	1,008670E+09	3,772225E+08
-132	8,124257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122336E+06	3,772422E+08	1,008677E+09	1,377937E+09	1,377931E+09	1,008674E+09	3,772632E+08
-131	8,124181E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126227E+06	3,772149E+08	1,008621E+09	1,377875E+09	1,377889E+09	1,008662E+09	3,772706E+08
-130	8,130080E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126938E+06	3,772735E+08	1,008636E+09	1,377837E+09	1,377808E+09	1,008556E+09	3,771755E+08
-129	8,122955E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123959E+06	3,771802E+08	1,008541E+09	1,377771E+09	1,377791E+09	1,008592E+09	3,772507E+08
-128	8,127537E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129199E+06	3,772198E+08	1,008548E+09	1,377741E+09	1,377744E+09	1,008548E+09	3,772059E+08
-127	8,127980E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126764E+06	3,772370E+08	1,008567E+09	1,377753E+09	1,377717E+09	1,008491E+09	3,771668E+08
-126	8,123772E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124044E+06	3,771500E+08	1,008491E+09	1,377719E+09	1,377744E+09	1,008561E+09	3,772480E+08
-125	8,129419E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129494E+06	3,772271E+08	1,008538E+09	1,377727E+09	1,377724E+09	1,008517E+09	3,771759E+08
-124	8,126454E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123952E+06	3,772089E+08	1,008548E+09	1,377753E+09	1,377754E+09	1,008549E+09	3,772108E+08
-123	8,125128E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126004E+06	3,771813E+08	1,008545E+09	1,377775E+09	1,377802E+09	1,008612E+09	3,772622E+08
-122	8,129274E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129043E+06	3,772773E+08	1,008635E+09	1,377831E+09	1,377805E+09	1,008562E+09	3,771814E+08
-121	8,124599E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122005E+06	3,772110E+08	1,008617E+09	1,377870E+09	1,377878E+09	1,008647E+09	3,772635E+08



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	8,124962E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128077E+06	3,772338E+08	1,008641E+09	1,377896E+09	1,377909E+09	1,008673E+09	3,772627E+08
-119	8,128426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125274E+06	3,772891E+08	1,008703E+09	1,377946E+09	1,377918E+09	1,008635E+09	3,772076E+08
-118	8,122569E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123089E+06	3,772104E+08	1,008641E+09	1,377921E+09	1,377950E+09	1,008714E+09	3,772970E+08
-117	8,126120E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129042E+06	3,772755E+08	1,008675E+09	1,377908E+09	1,377910E+09	1,008667E+09	3,772396E+08
-116	8,127067E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123455E+06	3,772739E+08	1,008688E+09	1,377916E+09	1,377892E+09	1,008636E+09	3,772300E+08
-115	8,122384E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125034E+06	3,771976E+08	1,008613E+09	1,377873E+09	1,377889E+09	1,008665E+09	3,772847E+08
-114	8,129629E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127629E+06	3,772673E+08	1,008631E+09	1,377837E+09	1,377813E+09	1,008565E+09	3,771833E+08
-113	8,125170E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123287E+06	3,772013E+08	1,008563E+09	1,377787E+09	1,377785E+09	1,008566E+09	3,772216E+08
-112	8,124807E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127447E+06	3,771772E+08	1,008505E+09	1,377715E+09	1,377736E+09	1,008554E+09	3,772300E+08
-111	8,130394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128508E+06	3,772423E+08	1,008540E+09	1,377700E+09	1,377664E+09	1,008451E+09	3,771383E+08
-110	8,123653E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124959E+06	3,771499E+08	1,008450E+09	1,377640E+09	1,377651E+09	1,008488E+09	3,772146E+08
-109	8,128402E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129026E+06	3,771732E+08	1,008440E+09	1,377603E+09	1,377608E+09	1,008449E+09	3,771747E+08
-108	8,129307E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126952E+06	3,771956E+08	1,008460E+09	1,377612E+09	1,377590E+09	1,008406E+09	3,771387E+08
-107	8,125239E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124424E+06	3,771132E+08	1,008392E+09	1,377590E+09	1,377623E+09	1,008478E+09	3,772184E+08
-106	8,130243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130666E+06	3,772014E+08	1,008453E+09	1,377599E+09	1,377593E+09	1,008425E+09	3,771422E+08
-105	8,126965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125132E+06	3,771880E+08	1,008478E+09	1,377646E+09	1,377634E+09	1,008455E+09	3,771751E+08
-104	8,125258E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127062E+06	3,771566E+08	1,008472E+09	1,377675E+09	1,377695E+09	1,008527E+09	3,772286E+08
-103	8,129389E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129822E+06	3,772503E+08	1,008566E+09	1,377744E+09	1,377712E+09	1,008488E+09	3,771519E+08
-102	8,125079E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,122733E+06	3,771829E+08	1,008539E+09	1,377767E+09	1,377778E+09	1,008573E+09	3,772341E+08
-101	8,125280E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128241E+06	3,771948E+08	1,008541E+09	1,377767E+09	1,377792E+09	1,008594E+09	3,772365E+08
-100	8,129266E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125990E+06	3,772588E+08	1,008607E+09	1,377807E+09	1,377789E+09	1,008553E+09	3,771818E+08
-99	8,123576E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123736E+06	3,771795E+08	1,008555E+09	1,377794E+09	1,377818E+09	1,008620E+09	3,772669E+08
-98	8,127203E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129463E+06	3,772408E+08	1,008583E+09	1,377775E+09	1,377765E+09	1,008558E+09	3,772031E+08
-97	8,128126E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123871E+06	3,772343E+08	1,008590E+09	1,377785E+09	1,377754E+09	1,008525E+09	3,771897E+08
-96	8,123325E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125679E+06	3,771555E+08	1,008503E+09	1,377732E+09	1,377753E+09	1,008563E+09	3,772449E+08
-95	8,130235E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128968E+06	3,772326E+08	1,008530E+09	1,377702E+09	1,377679E+09	1,008469E+09	3,771458E+08
-94	8,125635E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124978E+06	3,771744E+08	1,008469E+09	1,377648E+09	1,377645E+09	1,008465E+09	3,771840E+08
-93	8,125345E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127998E+06	3,771385E+08	1,008401E+09	1,377571E+09	1,377591E+09	1,008452E+09	3,771968E+08
-92	8,131291E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129159E+06	3,772037E+08	1,008436E+09	1,377557E+09	1,377525E+09	1,008355E+09	3,771076E+08
-91	8,125114E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124987E+06	3,771069E+08	1,008346E+09	1,377506E+09	1,377519E+09	1,008391E+09	3,771817E+08
-90	8,129654E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129412E+06	3,771302E+08	1,008329E+09	1,377455E+09	1,377463E+09	1,008345E+09	3,771377E+08
-89	8,130116E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127993E+06	3,771621E+08	1,008359E+09	1,377473E+09	1,377451E+09	1,008303E+09	3,770994E+08
-88	8,125612E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125832E+06	3,770879E+08	1,008304E+09	1,377459E+09	1,377493E+09	1,008384E+09	3,771806E+08
-87	8,130098E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132224E+06	3,771823E+08	1,008389E+09	1,377501E+09	1,377481E+09	1,008339E+09	3,771102E+08
-86	8,127321E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126059E+06	3,771665E+08	1,008416E+09	1,377557E+09	1,377534E+09	1,008374E+09	3,771448E+08
-85	8,125694E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126781E+06	3,771171E+08	1,008386E+09	1,377571E+09	1,377595E+09	1,008453E+09	3,772043E+08

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	8,130390E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129894E+06	3,772131E+08	1,008472E+09	1,377626E+09	1,377611E+09	1,008423E+09	3,771310E+08
-83	8,126438E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,123119E+06	3,771497E+08	1,008448E+09	1,377646E+09	1,377665E+09	1,008497E+09	3,772094E+08
-82	8,126165E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128994E+06	3,771645E+08	1,008450E+09	1,377632E+09	1,377655E+09	1,008500E+09	3,772068E+08
-81	8,130223E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126879E+06	3,772309E+08	1,008524E+09	1,377684E+09	1,377654E+09	1,008450E+09	3,771462E+08
-80	8,124197E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124556E+06	3,771463E+08	1,008465E+09	1,377672E+09	1,377690E+09	1,008518E+09	3,772271E+08
-79	8,127627E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130140E+06	3,772060E+08	1,008498E+09	1,377663E+09	1,377645E+09	1,008462E+09	3,771659E+08
-78	8,128745E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124970E+06	3,772003E+08	1,008494E+09	1,377659E+09	1,377628E+09	1,008429E+09	3,771506E+08
-77	8,123744E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126193E+06	3,771128E+08	1,008386E+09	1,377580E+09	1,377611E+09	1,008466E+09	3,772107E+08
-76	8,130998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130149E+06	3,771980E+08	1,008419E+09	1,377542E+09	1,377531E+09	1,008373E+09	3,771158E+08
-75	8,126887E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125840E+06	3,771377E+08	1,008366E+09	1,377501E+09	1,377494E+09	1,008359E+09	3,771506E+08
-74	8,126683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128384E+06	3,770955E+08	1,008290E+09	1,377418E+09	1,377432E+09	1,008335E+09	3,771589E+08
-73	8,132480E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129737E+06	3,771603E+08	1,008325E+09	1,377412E+09	1,377376E+09	1,008238E+09	3,770658E+08
-72	8,125995E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125799E+06	3,770681E+08	1,008238E+09	1,377363E+09	1,377379E+09	1,008285E+09	3,771384E+08
-71	8,129836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130953E+06	3,771047E+08	1,008246E+09	1,377336E+09	1,377336E+09	1,008250E+09	3,771005E+08
-70	8,130243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129737E+06	3,771454E+08	1,008291E+09	1,377366E+09	1,377334E+09	1,008214E+09	3,770648E+08
-69	8,125858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126367E+06	3,770596E+08	1,008229E+09	1,377356E+09	1,377384E+09	1,008304E+09	3,771535E+08
-68	8,130714E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132692E+06	3,771515E+08	1,008309E+09	1,377397E+09	1,377386E+09	1,008273E+09	3,770907E+08
-67	8,128849E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125720E+06	3,771274E+08	1,008330E+09	1,377455E+09	1,377440E+09	1,008306E+09	3,771228E+08
-66	8,126898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126728E+06	3,770746E+08	1,008283E+09	1,377443E+09	1,377476E+09	1,008372E+09	3,771775E+08
-65	8,131372E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130412E+06	3,771773E+08	1,008372E+09	1,377492E+09	1,377480E+09	1,008329E+09	3,770983E+08
-64	8,126961E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124303E+06	3,771233E+08	1,008359E+09	1,377513E+09	1,377530E+09	1,008400E+09	3,771726E+08
-63	8,126268E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130397E+06	3,771436E+08	1,008382E+09	1,377523E+09	1,377526E+09	1,008400E+09	3,771710E+08
-62	8,130685E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128044E+06	3,772066E+08	1,008451E+09	1,377578E+09	1,377535E+09	1,008353E+09	3,771092E+08
-61	8,124708E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124765E+06	3,771060E+08	1,008367E+09	1,377550E+09	1,377571E+09	1,008428E+09	3,771935E+08
-60	8,128485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130749E+06	3,771675E+08	1,008390E+09	1,377526E+09	1,377525E+09	1,008380E+09	3,771378E+08
-59	8,130009E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125822E+06	3,771638E+08	1,008391E+09	1,377520E+09	1,377496E+09	1,008337E+09	3,771187E+08
-58	8,124707E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127063E+06	3,770761E+08	1,008279E+09	1,377425E+09	1,377454E+09	1,008357E+09	3,771756E+08
-57	8,132054E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131098E+06	3,771610E+08	1,008317E+09	1,377398E+09	1,377376E+09	1,008255E+09	3,770758E+08
-56	8,127696E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126800E+06	3,770993E+08	1,008259E+09	1,377356E+09	1,377346E+09	1,008245E+09	3,771074E+08
-55	8,127347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129243E+06	3,770589E+08	1,008193E+09	1,377286E+09	1,377293E+09	1,008227E+09	3,771175E+08
-54	8,132978E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131058E+06	3,771267E+08	1,008225E+09	1,377277E+09	1,377243E+09	1,008137E+09	3,770251E+08
-53	8,126397E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126430E+06	3,770313E+08	1,008133E+09	1,377222E+09	1,377245E+09	1,008191E+09	3,771030E+08
-52	8,130257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132070E+06	3,770765E+08	1,008156E+09	1,377206E+09	1,377214E+09	1,008168E+09	3,770749E+08
-51	8,131493E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130113E+06	3,771134E+08	1,008212E+09	1,377257E+09	1,377220E+09	1,008131E+09	3,770395E+08
-50	8,127242E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126204E+06	3,770187E+08	1,008134E+09	1,377235E+09	1,377264E+09	1,008215E+09	3,771273E+08
-49	8,132100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132760E+06	3,771098E+08	1,008211E+09	1,377277E+09	1,377269E+09	1,008185E+09	3,770612E+08

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												
-48	8,129890E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126363E+06	3,770922E+08	1,008229E+09	1,377325E+09	1,377321E+09	1,008222E+09	3,770882E+08
-47	8,127054E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128227E+06	3,770536E+08	1,008207E+09	1,377326E+09	1,377356E+09	1,008283E+09	3,771433E+08
-46	8,131394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132162E+06	3,771625E+08	1,008307E+09	1,377386E+09	1,377363E+09	1,008239E+09	3,770629E+08
-45	8,126986E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125049E+06	3,770977E+08	1,008285E+09	1,377408E+09	1,377416E+09	1,008311E+09	3,771394E+08
-44	8,126644E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131074E+06	3,771149E+08	1,008301E+09	1,377416E+09	1,377424E+09	1,008323E+09	3,771453E+08
-43	8,132107E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128069E+06	3,771678E+08	1,008361E+09	1,377465E+09	1,377427E+09	1,008272E+09	3,770812E+08
-42	8,125893E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125031E+06	3,770617E+08	1,008254E+09	1,377405E+09	1,377436E+09	1,008333E+09	3,771616E+08
-41	8,129666E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131490E+06	3,771282E+08	1,008278E+09	1,377373E+09	1,377377E+09	1,008274E+09	3,771013E+08
-40	8,130710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127235E+06	3,771298E+08	1,008284E+09	1,377367E+09	1,377342E+09	1,008226E+09	3,770774E+08
-39	8,125174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128350E+06	3,770466E+08	1,008189E+09	1,377290E+09	1,377303E+09	1,008240E+09	3,771342E+08
-38	8,132729E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132199E+06	3,771259E+08	1,008219E+09	1,377265E+09	1,377234E+09	1,008142E+09	3,770331E+08
-37	8,128345E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127167E+06	3,770549E+08	1,008146E+09	1,377212E+09	1,377206E+09	1,008141E+09	3,770678E+08
-36	8,128206E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130099E+06	3,770215E+08	1,008081E+09	1,377140E+09	1,377163E+09	1,008137E+09	3,770861E+08
-35	8,134179E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131866E+06	3,770925E+08	1,008129E+09	1,377144E+09	1,377114E+09	1,008048E+09	3,769955E+08
-34	8,127573E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127010E+06	3,769968E+08	1,008037E+09	1,377088E+09	1,377109E+09	1,008095E+09	3,770724E+08
-33	8,131381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132618E+06	3,770413E+08	1,008067E+09	1,377086E+09	1,377087E+09	1,008070E+09	3,770428E+08
-32	8,132383E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130617E+06	3,770771E+08	1,008119E+09	1,377139E+09	1,377106E+09	1,008044E+09	3,770052E+08
-31	8,127867E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127021E+06	3,769888E+08	1,008052E+09	1,377123E+09	1,377150E+09	1,008129E+09	3,770925E+08
-30	8,132227E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134035E+06	3,770821E+08	1,008124E+09	1,377158E+09	1,377155E+09	1,008100E+09	3,770256E+08
-29	8,129907E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127279E+06	3,770656E+08	1,008140E+09	1,377198E+09	1,377199E+09	1,008137E+09	3,770557E+08
-28	8,127105E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129566E+06	3,770336E+08	1,008129E+09	1,377210E+09	1,377242E+09	1,008205E+09	3,771184E+08
-27	8,132465E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132499E+06	3,771346E+08	1,008236E+09	1,377286E+09	1,377255E+09	1,008157E+09	3,770381E+08
-26	8,128295E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,124906E+06	3,770585E+08	1,008194E+09	1,377291E+09	1,377298E+09	1,008221E+09	3,771106E+08
-25	8,128072E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131095E+06	3,770732E+08	1,008203E+09	1,377294E+09	1,377303E+09	1,008230E+09	3,771124E+08
-24	8,133082E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128840E+06	3,771308E+08	1,008256E+09	1,377328E+09	1,377300E+09	1,008181E+09	3,770444E+08
-23	8,126283E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,126639E+06	3,770375E+08	1,008167E+09	1,377271E+09	1,377296E+09	1,008232E+09	3,771229E+08
-22	8,129997E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133108E+06	3,771024E+08	1,008190E+09	1,377243E+09	1,377238E+09	1,008169E+09	3,770612E+08
-21	8,131041E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128183E+06	3,770935E+08	1,008182E+09	1,377228E+09	1,377201E+09	1,008121E+09	3,770386E+08
-20	8,125880E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129042E+06	3,770083E+08	1,008081E+09	1,377150E+09	1,377173E+09	1,008144E+09	3,771017E+08
-19	8,134275E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132332E+06	3,770795E+08	1,008108E+09	1,377123E+09	1,377099E+09	1,008044E+09	3,769994E+08
-18	8,129578E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127434E+06	3,770071E+08	1,008021E+09	1,377048E+09	1,377051E+09	1,008032E+09	3,770309E+08
-17	8,129458E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130856E+06	3,769838E+08	1,007972E+09	1,376985E+09	1,377008E+09	1,008026E+09	3,770475E+08
-16	8,134763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133227E+06	3,770611E+08	1,008031E+09	1,377002E+09	1,376969E+09	1,007943E+09	3,769571E+08
-15	8,128178E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128259E+06	3,769719E+08	1,007960E+09	1,376970E+09	1,376977E+09	1,007992E+09	3,770344E+08
-14	8,131844E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133679E+06	3,770107E+08	1,007982E+09	1,376975E+09	1,376973E+09	1,007979E+09	3,770062E+08
-13	8,132776E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131056E+06	3,770396E+08	1,008020E+09	1,377016E+09	1,376993E+09	1,007962E+09	3,769723E+08

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°
-12	8,128259E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128036E+06	3,769616E+08	1,007960E+09	1,377002E+09	1,377044E+09	1,008057E+09	3,770676E+08
-11	8,133044E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134643E+06	3,770554E+08	1,008046E+09	1,377046E+09	1,377044E+09	1,008026E+09	3,770020E+08
-10	8,130845E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127603E+06	3,770367E+08	1,008061E+09	1,377082E+09	1,377077E+09	1,008051E+09	3,770293E+08
-9	8,128243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129924E+06	3,770037E+08	1,008054E+09	1,377106E+09	1,377128E+09	1,008115E+09	3,770883E+08
-8	8,133348E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132782E+06	3,771002E+08	1,008150E+09	1,377177E+09	1,377149E+09	1,008075E+09	3,770067E+08
-7	8,129093E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,125744E+06	3,770287E+08	1,008112E+09	1,377178E+09	1,377183E+09	1,008134E+09	3,770742E+08
-6	8,128343E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132292E+06	3,770424E+08	1,008108E+09	1,377167E+09	1,377181E+09	1,008139E+09	3,770737E+08
-5	8,133103E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129924E+06	3,770986E+08	1,008155E+09	1,377185E+09	1,377162E+09	1,008086E+09	3,770075E+08
-4	8,126457E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128102E+06	3,770105E+08	1,008071E+09	1,377132E+09	1,377161E+09	1,008137E+09	3,770927E+08
-3	8,131341E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133312E+06	3,770625E+08	1,008092E+09	1,377109E+09	1,377101E+09	1,008070E+09	3,770307E+08
-2	8,132513E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128212E+06	3,770445E+08	1,008062E+09	1,377074E+09	1,377050E+09	1,008011E+09	3,770037E+08
-1	8,127622E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129218E+06	3,769613E+08	1,007962E+09	1,376993E+09	1,377018E+09	1,008030E+09	3,770603E+08
1	8,135138E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133363E+06	3,770399E+08	1,007993E+09	1,376966E+09	1,376949E+09	1,007937E+09	3,769582E+08
2	8,130040E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129239E+06	3,769846E+08	1,007936E+09	1,376910E+09	1,376901E+09	1,007921E+09	3,769868E+08
3	8,129639E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132482E+06	3,769597E+08	1,007892E+09	1,376865E+09	1,376875E+09	1,007922E+09	3,770056E+08
4	8,134795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134194E+06	3,770283E+08	1,007941E+09	1,376881E+09	1,376847E+09	1,007852E+09	3,769224E+08
5	8,128812E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128965E+06	3,769383E+08	1,007865E+09	1,376852E+09	1,376872E+09	1,007915E+09	3,770089E+08
6	8,133170E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133602E+06	3,769681E+08	1,007884E+09	1,376855E+09	1,376864E+09	1,007904E+09	3,769816E+08
7	8,133895E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131108E+06	3,769972E+08	1,007910E+09	1,376873E+09	1,376862E+09	1,007876E+09	3,769452E+08
8	8,129410E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128533E+06	3,769307E+08	1,007870E+09	1,376870E+09	1,376908E+09	1,007962E+09	3,770358E+08
9	8,133513E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135424E+06	3,770281E+08	1,007967E+09	1,376929E+09	1,376920E+09	1,007936E+09	3,769714E+08
10	8,131627E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128539E+06	3,770164E+08	1,007998E+09	1,376983E+09	1,376961E+09	1,007957E+09	3,769939E+08
11	8,128713E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130882E+06	3,769762E+08	1,007980E+09	1,377007E+09	1,377025E+09	1,008030E+09	3,770516E+08
12	8,133587E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133395E+06	3,770661E+08	1,008057E+09	1,377058E+09	1,377039E+09	1,007997E+09	3,769737E+08
13	8,129353E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127130E+06	3,770024E+08	1,008019E+09	1,377056E+09	1,377075E+09	1,008059E+09	3,770474E+08
14	8,129166E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132903E+06	3,770111E+08	1,008021E+09	1,377044E+09	1,377059E+09	1,008057E+09	3,770469E+08
15	8,134021E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130279E+06	3,770593E+08	1,008052E+09	1,377044E+09	1,377018E+09	1,007985E+09	3,769771E+08
16	8,127821E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,128429E+06	3,769714E+08	1,007971E+09	1,376993E+09	1,377012E+09	1,008026E+09	3,770559E+08
17	8,132450E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133656E+06	3,770185E+08	1,007981E+09	1,376962E+09	1,376956E+09	1,007964E+09	3,769921E+08
18	8,133385E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129432E+06	3,770100E+08	1,007959E+09	1,376924E+09	1,376897E+09	1,007896E+09	3,769577E+08
19	8,128035E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130720E+06	3,769295E+08	1,007857E+09	1,376846E+09	1,376870E+09	1,007918E+09	3,770125E+08
20	8,134971E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134766E+06	3,770076E+08	1,007890E+09	1,376817E+09	1,376800E+09	1,007831E+09	3,769181E+08
21	8,130298E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130677E+06	3,769561E+08	1,007844E+09	1,376783E+09	1,376774E+09	1,007826E+09	3,769564E+08
22	8,131054E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132486E+06	3,769189E+08	1,007799E+09	1,376747E+09	1,376756E+09	1,007834E+09	3,769784E+08
23	8,136162E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133990E+06	3,769785E+08	1,007827E+09	1,376741E+09	1,376717E+09	1,007761E+09	3,768953E+08
24	8,130572E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129015E+06	3,768966E+08	1,007758E+09	1,376711E+09	1,376736E+09	1,007822E+09	3,769769E+08



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	8,133939E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134366E+06	3,769334E+08	1,007783E+09	1,376717E+09	1,376733E+09	1,007816E+09	3,769502E+08
26	8,134415E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132658E+06	3,769805E+08	1,007840E+09	1,376754E+09	1,376731E+09	1,007778E+09	3,769081E+08
27	8,129556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129989E+06	3,769129E+08	1,007807E+09	1,376773E+09	1,376796E+09	1,007870E+09	3,769966E+08
28	8,133235E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136235E+06	3,770019E+08	1,007896E+09	1,376832E+09	1,376819E+09	1,007856E+09	3,769402E+08
29	8,132047E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129343E+06	3,769892E+08	1,007922E+09	1,376889E+09	1,376874E+09	1,007889E+09	3,769692E+08
30	8,129688E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130938E+06	3,769389E+08	1,007892E+09	1,376900E+09	1,376926E+09	1,007961E+09	3,770277E+08
31	8,134437E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133507E+06	3,770253E+08	1,007950E+09	1,376917E+09	1,376910E+09	1,007913E+09	3,769483E+08
32	8,130506E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,127828E+06	3,769701E+08	1,007923E+09	1,376913E+09	1,376927E+09	1,007958E+09	3,770151E+08
33	8,129882E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133446E+06	3,769744E+08	1,007923E+09	1,376906E+09	1,376916E+09	1,007954E+09	3,770142E+08
34	8,135116E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131306E+06	3,770285E+08	1,007962E+09	1,376911E+09	1,376871E+09	1,007870E+09	3,769357E+08
35	8,128579E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129412E+06	3,769349E+08	1,007871E+09	1,376860E+09	1,376873E+09	1,007914E+09	3,770086E+08
36	8,132718E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134508E+06	3,769792E+08	1,007870E+09	1,376814E+09	1,376812E+09	1,007859E+09	3,769508E+08
37	8,133667E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131072E+06	3,769801E+08	1,007858E+09	1,376786E+09	1,376764E+09	1,007799E+09	3,769231E+08
38	8,129085E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131409E+06	3,768957E+08	1,007765E+09	1,376716E+09	1,376737E+09	1,007824E+09	3,769807E+08
39	8,135925E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135141E+06	3,769646E+08	1,007783E+09	1,376676E+09	1,376659E+09	1,007732E+09	3,768894E+08
40	8,131962E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130889E+06	3,769137E+08	1,007740E+09	1,376645E+09	1,376634E+09	1,007725E+09	3,769235E+08
41	8,132347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132573E+06	3,768714E+08	1,007685E+09	1,376605E+09	1,376624E+09	1,007741E+09	3,769458E+08
42	8,137100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135145E+06	3,769443E+08	1,007723E+09	1,376597E+09	1,376573E+09	1,007656E+09	3,768546E+08
43	8,130887E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130481E+06	3,768708E+08	1,007665E+09	1,376575E+09	1,376598E+09	1,007718E+09	3,769324E+08
44	8,133437E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135841E+06	3,769104E+08	1,007701E+09	1,376589E+09	1,376600E+09	1,007720E+09	3,769147E+08
45	8,134463E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134023E+06	3,769608E+08	1,007772E+09	1,376658E+09	1,376627E+09	1,007697E+09	3,768821E+08
46	8,130736E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130086E+06	3,768821E+08	1,007739E+09	1,376687E+09	1,376706E+09	1,007799E+09	3,769728E+08
47	8,134253E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135925E+06	3,769589E+08	1,007800E+09	1,376719E+09	1,376714E+09	1,007782E+09	3,769188E+08
48	8,133661E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129400E+06	3,769526E+08	1,007829E+09	1,376768E+09	1,376757E+09	1,007809E+09	3,769420E+08
49	8,130382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131503E+06	3,769051E+08	1,007798E+09	1,376772E+09	1,376804E+09	1,007879E+09	3,769998E+08
50	8,135106E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134776E+06	3,770027E+08	1,007871E+09	1,376792E+09	1,376773E+09	1,007812E+09	3,769117E+08
51	8,130902E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129223E+06	3,769453E+08	1,007843E+09	1,376795E+09	1,376797E+09	1,007853E+09	3,769727E+08
52	8,129982E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134200E+06	3,769396E+08	1,007827E+09	1,376777E+09	1,376785E+09	1,007855E+09	3,769776E+08
53	8,135779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132339E+06	3,769923E+08	1,007862E+09	1,376786E+09	1,376751E+09	1,007777E+09	3,769030E+08
54	8,129790E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129803E+06	3,768930E+08	1,007764E+09	1,376724E+09	1,376744E+09	1,007820E+09	3,769731E+08
55	8,133474E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134864E+06	3,769346E+08	1,007751E+09	1,376654E+09	1,376660E+09	1,007754E+09	3,769178E+08
56	8,134839E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131918E+06	3,769439E+08	1,007755E+09	1,376634E+09	1,376604E+09	1,007688E+09	3,768868E+08
57	8,130126E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131904E+06	3,768547E+08	1,007660E+09	1,376573E+09	1,376591E+09	1,007718E+09	3,769467E+08
58	8,137155E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136246E+06	3,769289E+08	1,007681E+09	1,376534E+09	1,376511E+09	1,007618E+09	3,768490E+08
59	8,132898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132059E+06	3,768769E+08	1,007633E+09	1,376506E+09	1,376496E+09	1,007617E+09	3,768779E+08
60	8,132517E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133704E+06	3,768359E+08	1,007576E+09	1,376459E+09	1,376486E+09	1,007643E+09	3,769072E+08

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	8,137114E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136885E+06	3,769200E+08	1,007636E+09	1,376475E+09	1,376452E+09	1,007567E+09	3,768233E+08
62	8,131654E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131095E+06	3,768451E+08	1,007594E+09	1,376470E+09	1,376485E+09	1,007634E+09	3,769026E+08
63	8,133982E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135985E+06	3,768759E+08	1,007619E+09	1,376480E+09	1,376487E+09	1,007637E+09	3,768921E+08
64	8,136015E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133962E+06	3,769270E+08	1,007692E+09	1,376552E+09	1,376519E+09	1,007618E+09	3,768570E+08
65	8,131988E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129984E+06	3,768415E+08	1,007646E+09	1,376575E+09	1,376604E+09	1,007727E+09	3,769480E+08
66	8,135246E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136861E+06	3,769287E+08	1,007708E+09	1,376593E+09	1,376593E+09	1,007694E+09	3,768857E+08
67	8,134124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130688E+06	3,769265E+08	1,007740E+09	1,376642E+09	1,376630E+09	1,007714E+09	3,769016E+08
68	8,130026E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132708E+06	3,768784E+08	1,007710E+09	1,376642E+09	1,376670E+09	1,007783E+09	3,769654E+08
69	8,135426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135892E+06	3,769743E+08	1,007789E+09	1,376682E+09	1,376656E+09	1,007719E+09	3,768820E+08
70	8,132130E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129515E+06	3,769089E+08	1,007755E+09	1,376681E+09	1,376680E+09	1,007762E+09	3,769400E+08
71	8,131035E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134175E+06	3,768934E+08	1,007714E+09	1,376634E+09	1,376650E+09	1,007758E+09	3,769471E+08
72	8,137315E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132990E+06	3,769542E+08	1,007754E+09	1,376636E+09	1,376604E+09	1,007676E+09	3,768677E+08
73	8,130633E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,130688E+06	3,768563E+08	1,007660E+09	1,376578E+09	1,376600E+09	1,007718E+09	3,769372E+08
74	8,134300E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136364E+06	3,769067E+08	1,007657E+09	1,376513E+09	1,376506E+09	1,007638E+09	3,768755E+08
75	8,135363E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133426E+06	3,769122E+08	1,007660E+09	1,376503E+09	1,376464E+09	1,007574E+09	3,768403E+08
76	8,130408E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132797E+06	3,768163E+08	1,007553E+09	1,376432E+09	1,376452E+09	1,007615E+09	3,769081E+08
77	8,137727E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137345E+06	3,768888E+08	1,007574E+09	1,376402E+09	1,376385E+09	1,007524E+09	3,768161E+08
78	8,134049E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132647E+06	3,768383E+08	1,007527E+09	1,376367E+09	1,376365E+09	1,007525E+09	3,768434E+08
79	8,133167E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134094E+06	3,767964E+08	1,007466E+09	1,376307E+09	1,376339E+09	1,007544E+09	3,768776E+08
80	8,138239E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137449E+06	3,768886E+08	1,007548E+09	1,376342E+09	1,376311E+09	1,007470E+09	3,767943E+08
81	8,132911E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131171E+06	3,768098E+08	1,007510E+09	1,376360E+09	1,376369E+09	1,007547E+09	3,768750E+08
82	8,135184E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136673E+06	3,768452E+08	1,007537E+09	1,376370E+09	1,376373E+09	1,007546E+09	3,768591E+08
83	8,136937E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134725E+06	3,768960E+08	1,007607E+09	1,376443E+09	1,376413E+09	1,007533E+09	3,768192E+08
84	8,132062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131083E+06	3,768136E+08	1,007555E+09	1,376452E+09	1,376490E+09	1,007647E+09	3,769159E+08
85	8,135203E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138365E+06	3,769063E+08	1,007632E+09	1,376488E+09	1,376487E+09	1,007617E+09	3,768584E+08
86	8,134818E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131472E+06	3,769016E+08	1,007668E+09	1,376538E+09	1,376523E+09	1,007633E+09	3,768717E+08
87	8,130457E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132927E+06	3,768425E+08	1,007619E+09	1,376522E+09	1,376549E+09	1,007694E+09	3,769392E+08
88	8,136876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135989E+06	3,769371E+08	1,007696E+09	1,376555E+09	1,376529E+09	1,007629E+09	3,768528E+08
89	8,133362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,129735E+06	3,768662E+08	1,007649E+09	1,376547E+09	1,376552E+09	1,007670E+09	3,769063E+08
90	8,132012E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135387E+06	3,768612E+08	1,007609E+09	1,376484E+09	1,376501E+09	1,007647E+09	3,769041E+08
91	8,137701E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134631E+06	3,769255E+08	1,007655E+09	1,376489E+09	1,376454E+09	1,007562E+09	3,768200E+08
92	8,130505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132102E+06	3,768254E+08	1,007560E+09	1,376433E+09	1,376449E+09	1,007608E+09	3,768975E+08
93	8,134919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137501E+06	3,768708E+08	1,007562E+09	1,376391E+09	1,376378E+09	1,007537E+09	3,768423E+08
94	8,136755E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133868E+06	3,768681E+08	1,007553E+09	1,376370E+09	1,376336E+09	1,007478E+09	3,768055E+08
95	8,131643E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132735E+06	3,767661E+08	1,007426E+09	1,376273E+09	1,376307E+09	1,007516E+09	3,768774E+08
96	8,139250E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137907E+06	3,768483E+08	1,007460E+09	1,376242E+09	1,376232E+09	1,007424E+09	3,767831E+08

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												
97	8,135074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133256E+06	3,768025E+08	1,007426E+09	1,376224E+09	1,376222E+09	1,007425E+09	3,768096E+08
98	8,134115E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135335E+06	3,767712E+08	1,007382E+09	1,376179E+09	1,376199E+09	1,007435E+09	3,768387E+08
99	8,138809E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138521E+06	3,768607E+08	1,007469E+09	1,376232E+09	1,376195E+09	1,007373E+09	3,767545E+08
100	8,133304E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131915E+06	3,767785E+08	1,007424E+09	1,376249E+09	1,376262E+09	1,007466E+09	3,768421E+08
101	8,135530E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137740E+06	3,768138E+08	1,007453E+09	1,376271E+09	1,376277E+09	1,007473E+09	3,768313E+08
102	8,137617E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135403E+06	3,768665E+08	1,007521E+09	1,376331E+09	1,376310E+09	1,007461E+09	3,767888E+08
103	8,132178E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131650E+06	3,767832E+08	1,007463E+09	1,376320E+09	1,376364E+09	1,007564E+09	3,768904E+08
104	8,136025E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138809E+06	3,768772E+08	1,007550E+09	1,376364E+09	1,376359E+09	1,007530E+09	3,768324E+08
105	8,135981E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131600E+06	3,768663E+08	1,007581E+09	1,376423E+09	1,376404E+09	1,007546E+09	3,768439E+08
106	8,131733E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133717E+06	3,768102E+08	1,007527E+09	1,376396E+09	1,376419E+09	1,007593E+09	3,769014E+08
107	8,137780E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136917E+06	3,769040E+08	1,007600E+09	1,376426E+09	1,376401E+09	1,007529E+09	3,768104E+08
108	8,133487E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131123E+06	3,768372E+08	1,007552E+09	1,376409E+09	1,376417E+09	1,007572E+09	3,768667E+08
109	8,132155E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136813E+06	3,768337E+08	1,007525E+09	1,376366E+09	1,376374E+09	1,007552E+09	3,768696E+08
110	8,138433E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135517E+06	3,768931E+08	1,007568E+09	1,376369E+09	1,376330E+09	1,007468E+09	3,767850E+08
111	8,131272E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132298E+06	3,767814E+08	1,007449E+09	1,376289E+09	1,376311E+09	1,007509E+09	3,768678E+08
112	8,136711E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137475E+06	3,768225E+08	1,007444E+09	1,376236E+09	1,376234E+09	1,007440E+09	3,768119E+08
113	8,138337E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134192E+06	3,768181E+08	1,007427E+09	1,376211E+09	1,376190E+09	1,007377E+09	3,767713E+08
114	8,132911E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133858E+06	3,767298E+08	1,007308E+09	1,376104E+09	1,376140E+09	1,007395E+09	3,768325E+08
115	8,139660E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139339E+06	3,768183E+08	1,007361E+09	1,376092E+09	1,376074E+09	1,007305E+09	3,767364E+08
116	8,135069E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134553E+06	3,767754E+08	1,007338E+09	1,376092E+09	1,376080E+09	1,007318E+09	3,767697E+08
117	8,134543E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136456E+06	3,767431E+08	1,007308E+09	1,376082E+09	1,376091E+09	1,007345E+09	3,768058E+08
118	8,139646E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139134E+06	3,768283E+08	1,007387E+09	1,376131E+09	1,376099E+09	1,007299E+09	3,767245E+08
119	8,134044E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132151E+06	3,767417E+08	1,007326E+09	1,376125E+09	1,376152E+09	1,007392E+09	3,768175E+08
120	8,136432E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138261E+06	3,767831E+08	1,007365E+09	1,376144E+09	1,376160E+09	1,007401E+09	3,768078E+08
121	8,138459E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135773E+06	3,768355E+08	1,007439E+09	1,376215E+09	1,376194E+09	1,007383E+09	3,767634E+08
122	8,132985E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132630E+06	3,767594E+08	1,007385E+09	1,376203E+09	1,376236E+09	1,007467E+09	3,768564E+08
123	8,136623E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139408E+06	3,768475E+08	1,007470E+09	1,376253E+09	1,376242E+09	1,007436E+09	3,767958E+08
124	8,136471E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132254E+06	3,768336E+08	1,007491E+09	1,376303E+09	1,376286E+09	1,007458E+09	3,768098E+08
125	8,132335E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134795E+06	3,767780E+08	1,007439E+09	1,376285E+09	1,376307E+09	1,007506E+09	3,768675E+08
126	8,138402E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137774E+06	3,768720E+08	1,007506E+09	1,376298E+09	1,376278E+09	1,007441E+09	3,767753E+08
127	8,133800E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,131747E+06	3,768010E+08	1,007449E+09	1,376263E+09	1,376273E+09	1,007474E+09	3,768358E+08
128	8,133364E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137093E+06	3,767951E+08	1,007425E+09	1,376222E+09	1,376230E+09	1,007453E+09	3,768398E+08
129	8,139912E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135640E+06	3,768454E+08	1,007456E+09	1,376227E+09	1,376191E+09	1,007368E+09	3,767535E+08
130	8,132897E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133137E+06	3,767401E+08	1,007329E+09	1,376128E+09	1,376152E+09	1,007392E+09	3,768262E+08
131	8,137870E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138455E+06	3,767816E+08	1,007325E+09	1,376074E+09	1,376077E+09	1,007323E+09	3,767652E+08
132	8,138474E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135907E+06	3,767869E+08	1,007318E+09	1,376051E+09	1,376029E+09	1,007263E+09	3,767270E+08

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	8,133125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135501E+06	3,767052E+08	1,007227E+09	1,375983E+09	1,376002E+09	1,007287E+09	3,767908E+08
134	8,139871E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140479E+06	3,767910E+08	1,007284E+09	1,375983E+09	1,375956E+09	1,007211E+09	3,767001E+08
135	8,135537E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134800E+06	3,767394E+08	1,007248E+09	1,375974E+09	1,375964E+09	1,007233E+09	3,767419E+08
136	8,135888E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136488E+06	3,767042E+08	1,007215E+09	1,375961E+09	1,375981E+09	1,007273E+09	3,767819E+08
137	8,140865E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139290E+06	3,767865E+08	1,007285E+09	1,376007E+09	1,375988E+09	1,007227E+09	3,767006E+08
138	8,135151E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133127E+06	3,767130E+08	1,007229E+09	1,375986E+09	1,376016E+09	1,007298E+09	3,767841E+08
139	8,136783E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139090E+06	3,767547E+08	1,007280E+09	1,376018E+09	1,376030E+09	1,007305E+09	3,767724E+08
140	8,138668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136610E+06	3,768082E+08	1,007358E+09	1,376099E+09	1,376070E+09	1,007290E+09	3,767314E+08
141	8,133598E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133411E+06	3,767310E+08	1,007315E+09	1,376111E+09	1,376130E+09	1,007379E+09	3,768243E+08
142	8,137377E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139857E+06	3,768153E+08	1,007388E+09	1,376148E+09	1,376140E+09	1,007358E+09	3,767653E+08
143	8,137158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132700E+06	3,767992E+08	1,007394E+09	1,376173E+09	1,376164E+09	1,007374E+09	3,767808E+08
144	8,133226E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135492E+06	3,767473E+08	1,007348E+09	1,376151E+09	1,376180E+09	1,007423E+09	3,768391E+08
145	8,139327E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138283E+06	3,768368E+08	1,007414E+09	1,376170E+09	1,376150E+09	1,007352E+09	3,767466E+08
146	8,134859E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,132847E+06	3,767682E+08	1,007350E+09	1,376124E+09	1,376127E+09	1,007363E+09	3,767973E+08
147	8,134329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137568E+06	3,767539E+08	1,007319E+09	1,376082E+09	1,376088E+09	1,007344E+09	3,767986E+08
148	8,140527E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136679E+06	3,768034E+08	1,007339E+09	1,376072E+09	1,376041E+09	1,007260E+09	3,767127E+08
149	8,133523E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134566E+06	3,767052E+08	1,007224E+09	1,375985E+09	1,376004E+09	1,007280E+09	3,767817E+08
150	8,138173E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139784E+06	3,767503E+08	1,007223E+09	1,375925E+09	1,375927E+09	1,007215E+09	3,767228E+08
151	8,138516E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136858E+06	3,767536E+08	1,007218E+09	1,375903E+09	1,375876E+09	1,007154E+09	3,766912E+08
152	8,134247E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135840E+06	3,766695E+08	1,007135E+09	1,375852E+09	1,375869E+09	1,007192E+09	3,767603E+08
153	8,141242E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140488E+06	3,767460E+08	1,007185E+09	1,375863E+09	1,375840E+09	1,007126E+09	3,766745E+08
154	8,137249E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135322E+06	3,767003E+08	1,007143E+09	1,375840E+09	1,375836E+09	1,007139E+09	3,767089E+08
155	8,137003E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137041E+06	3,766672E+08	1,007115E+09	1,375828E+09	1,375855E+09	1,007182E+09	3,767466E+08
156	8,141010E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140473E+06	3,767574E+08	1,007193E+09	1,375875E+09	1,375859E+09	1,007139E+09	3,766683E+08
157	8,135522E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134389E+06	3,766923E+08	1,007162E+09	1,375886E+09	1,375900E+09	1,007208E+09	3,767502E+08
158	8,136929E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139941E+06	3,767292E+08	1,007209E+09	1,375919E+09	1,375924E+09	1,007222E+09	3,767418E+08
159	8,139157E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136777E+06	3,767747E+08	1,007273E+09	1,375987E+09	1,375960E+09	1,007210E+09	3,767060E+08
160	8,134836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133677E+06	3,766964E+08	1,007226E+09	1,375995E+09	1,376024E+09	1,007306E+09	3,767982E+08
161	8,138381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140112E+06	3,767769E+08	1,007291E+09	1,376025E+09	1,376025E+09	1,007280E+09	3,767391E+08
162	8,138129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,133865E+06	3,767711E+08	1,007299E+09	1,376032E+09	1,376021E+09	1,007272E+09	3,767441E+08
163	8,133694E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136305E+06	3,767159E+08	1,007258E+09	1,376017E+09	1,376037E+09	1,007316E+09	3,768000E+08
164	8,139669E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139237E+06	3,768021E+08	1,007318E+09	1,376037E+09	1,376009E+09	1,007247E+09	3,767102E+08
165	8,135688E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134037E+06	3,767342E+08	1,007259E+09	1,376003E+09	1,375995E+09	1,007257E+09	3,767575E+08
166	8,135124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138406E+06	3,767153E+08	1,007213E+09	1,375944E+09	1,375955E+09	1,007244E+09	3,767599E+08
167	8,141057E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137582E+06	3,767641E+08	1,007224E+09	1,375915E+09	1,375889E+09	1,007155E+09	3,766769E+08
168	8,134465E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135408E+06	3,766712E+08	1,007122E+09	1,375834E+09	1,375856E+09	1,007179E+09	3,767459E+08



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												
169	8,139115E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140212E+06	3,767112E+08	1,007126E+09	1,375792E+09	1,375788E+09	1,007114E+09	3,766912E+08
170	8,139725E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137682E+06	3,767173E+08	1,007118E+09	1,375765E+09	1,375732E+09	1,007045E+09	3,766539E+08
171	8,135580E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135991E+06	3,766273E+08	1,007034E+09	1,375722E+09	1,375741E+09	1,007093E+09	3,767238E+08
172	8,141981E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141387E+06	3,767051E+08	1,007077E+09	1,375726E+09	1,375712E+09	1,007036E+09	3,766421E+08
173	8,138073E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136572E+06	3,766691E+08	1,007050E+09	1,375716E+09	1,375710E+09	1,007045E+09	3,766715E+08
174	8,137133E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138225E+06	3,766403E+08	1,007026E+09	1,375701E+09	1,375729E+09	1,007093E+09	3,767121E+08
175	8,140928E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141234E+06	3,767283E+08	1,007107E+09	1,375748E+09	1,375727E+09	1,007047E+09	3,766390E+08
176	8,136385E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134702E+06	3,766629E+08	1,007083E+09	1,375774E+09	1,375788E+09	1,007126E+09	3,767233E+08
177	8,138034E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139980E+06	3,766922E+08	1,007124E+09	1,375815E+09	1,375822E+09	1,007147E+09	3,767193E+08
178	8,140655E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137429E+06	3,767425E+08	1,007180E+09	1,375863E+09	1,375840E+09	1,007121E+09	3,766749E+08
179	8,135796E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134435E+06	3,766662E+08	1,007139E+09	1,375873E+09	1,375903E+09	1,007215E+09	3,767626E+08
180	8,138449E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141391E+06	3,767507E+08	1,007207E+09	1,375902E+09	1,375898E+09	1,007189E+09	3,767060E+08
181	8,138506E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135286E+06	3,767487E+08	1,007231E+09	1,375931E+09	1,375901E+09	1,007174E+09	3,767055E+08
182	8,133803E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137178E+06	3,766857E+08	1,007174E+09	1,375905E+09	1,375921E+09	1,007224E+09	3,767652E+08
183	8,140247E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139506E+06	3,767598E+08	1,007212E+09	1,375901E+09	1,375879E+09	1,007153E+09	3,766793E+08
184	8,136995E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134601E+06	3,766918E+08	1,007145E+09	1,375854E+09	1,375860E+09	1,007164E+09	3,767250E+08
185	8,136464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138792E+06	3,766703E+08	1,007093E+09	1,375787E+09	1,375807E+09	1,007143E+09	3,767272E+08
186	8,142234E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138751E+06	3,767271E+08	1,007108E+09	1,375746E+09	1,375718E+09	1,007033E+09	3,766359E+08
187	8,135472E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136020E+06	3,766330E+08	1,007020E+09	1,375686E+09	1,375696E+09	1,007057E+09	3,767021E+08
188	8,139667E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141010E+06	3,766708E+08	1,007022E+09	1,375653E+09	1,375644E+09	1,007004E+09	3,766533E+08
189	8,140751E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138809E+06	3,766822E+08	1,007026E+09	1,375645E+09	1,375605E+09	1,006942E+09	3,766132E+08
190	8,136296E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137040E+06	3,765928E+08	1,006932E+09	1,375591E+09	1,375617E+09	1,007003E+09	3,766866E+08
191	8,142146E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142478E+06	3,766713E+08	1,006973E+09	1,375583E+09	1,375577E+09	1,006946E+09	3,766111E+08
192	8,138767E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137566E+06	3,766425E+08	1,006962E+09	1,375586E+09	1,375586E+09	1,006961E+09	3,766422E+08
193	8,137860E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138597E+06	3,766077E+08	1,006943E+09	1,375590E+09	1,375614E+09	1,007009E+09	3,766869E+08
194	8,141966E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141719E+06	3,766963E+08	1,007021E+09	1,375631E+09	1,375606E+09	1,006954E+09	3,766093E+08
195	8,137644E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,134700E+06	3,766278E+08	1,007000E+09	1,375665E+09	1,375676E+09	1,007038E+09	3,766902E+08
196	8,138520E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140841E+06	3,766594E+08	1,007034E+09	1,375699E+09	1,375711E+09	1,007064E+09	3,766886E+08
197	8,141296E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138774E+06	3,767206E+08	1,007106E+09	1,375756E+09	1,375726E+09	1,007033E+09	3,766378E+08
198	8,135714E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135797E+06	3,766447E+08	1,007063E+09	1,375760E+09	1,375786E+09	1,007129E+09	3,767278E+08
199	8,138432E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142017E+06	3,767193E+08	1,007121E+09	1,375781E+09	1,375773E+09	1,007098E+09	3,766773E+08
200	8,139570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135690E+06	3,767122E+08	1,007137E+09	1,375809E+09	1,375786E+09	1,007090E+09	3,766775E+08
201	8,135228E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137106E+06	3,766397E+08	1,007066E+09	1,375774E+09	1,375799E+09	1,007137E+09	3,767388E+08
202	8,141965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140078E+06	3,767162E+08	1,007091E+09	1,375741E+09	1,375727E+09	1,007046E+09	3,766434E+08
203	8,138191E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135396E+06	3,766537E+08	1,007034E+09	1,375697E+09	1,375702E+09	1,007049E+09	3,766818E+08
204	8,136867E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140092E+06	3,766376E+08	1,006990E+09	1,375636E+09	1,375650E+09	1,007028E+09	3,766857E+08

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	8,142784E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140367E+06	3,766995E+08	1,007025E+09	1,375620E+09	1,375573E+09	1,006916E+09	3,765896E+08
206	8,135756E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137084E+06	3,766003E+08	1,006927E+09	1,375562E+09	1,375567E+09	1,006954E+09	3,766610E+08
207	8,140180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141624E+06	3,766293E+08	1,006914E+09	1,375515E+09	1,375512E+09	1,006909E+09	3,766201E+08
208	8,141767E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139655E+06	3,766421E+08	1,006913E+09	1,375503E+09	1,375480E+09	1,006857E+09	3,765820E+08
209	8,137440E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137564E+06	3,765541E+08	1,006823E+09	1,375447E+09	1,375485E+09	1,006915E+09	3,766583E+08
210	8,143059E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143324E+06	3,766364E+08	1,006869E+09	1,375431E+09	1,375425E+09	1,006841E+09	3,765779E+08
211	8,139835E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137822E+06	3,766084E+08	1,006874E+09	1,375459E+09	1,375447E+09	1,006856E+09	3,766062E+08
212	8,138497E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139214E+06	3,765739E+08	1,006856E+09	1,375474E+09	1,375493E+09	1,006916E+09	3,766553E+08
213	8,142918E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142622E+06	3,766694E+08	1,006948E+09	1,375531E+09	1,375499E+09	1,006866E+09	3,765738E+08
214	8,138173E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135749E+06	3,766034E+08	1,006922E+09	1,375560E+09	1,375575E+09	1,006961E+09	3,766563E+08
215	8,138464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141852E+06	3,766336E+08	1,006953E+09	1,375583E+09	1,375599E+09	1,006987E+09	3,766603E+08
216	8,141784E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139615E+06	3,766961E+08	1,007029E+09	1,375648E+09	1,375623E+09	1,006960E+09	3,766112E+08
217	8,136521E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136109E+06	3,766116E+08	1,006979E+09	1,375652E+09	1,375679E+09	1,007051E+09	3,767038E+08
218	8,139664E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142118E+06	3,766782E+08	1,007019E+09	1,375650E+09	1,375645E+09	1,007005E+09	3,766483E+08
219	8,141108E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,135827E+06	3,766686E+08	1,007030E+09	1,375671E+09	1,375650E+09	1,006990E+09	3,766415E+08
220	8,135996E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138080E+06	3,765995E+08	1,006949E+09	1,375619E+09	1,375651E+09	1,007032E+09	3,767004E+08
221	8,142683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141704E+06	3,766887E+08	1,006995E+09	1,375593E+09	1,375572E+09	1,006929E+09	3,765964E+08
222	8,138089E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137104E+06	3,766285E+08	1,006942E+09	1,375554E+09	1,375549E+09	1,006933E+09	3,766344E+08
223	8,136879E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140977E+06	3,766032E+08	1,006893E+09	1,375497E+09	1,375502E+09	1,006915E+09	3,766460E+08
224	8,143597E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141141E+06	3,766606E+08	1,006921E+09	1,375490E+09	1,375450E+09	1,006822E+09	3,765568E+08
225	8,137303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137273E+06	3,765544E+08	1,006815E+09	1,375426E+09	1,375443E+09	1,006866E+09	3,766328E+08
226	8,141834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142133E+06	3,765840E+08	1,006793E+09	1,375356E+09	1,375365E+09	1,006809E+09	3,765881E+08
227	8,143106E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140345E+06	3,766038E+08	1,006806E+09	1,375352E+09	1,375330E+09	1,006752E+09	3,765450E+08
228	8,138003E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138616E+06	3,765227E+08	1,006727E+09	1,375308E+09	1,375341E+09	1,006812E+09	3,766223E+08
229	8,143568E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144539E+06	3,766117E+08	1,006795E+09	1,375318E+09	1,375297E+09	1,006738E+09	3,765376E+08
230	8,140107E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138687E+06	3,765822E+08	1,006797E+09	1,375354E+09	1,375338E+09	1,006768E+09	3,765692E+08
231	8,138779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139857E+06	3,765417E+08	1,006771E+09	1,375362E+09	1,375386E+09	1,006836E+09	3,766254E+08
232	8,143574E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143480E+06	3,766396E+08	1,006858E+09	1,375420E+09	1,375403E+09	1,006799E+09	3,765487E+08
233	8,139123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136316E+06	3,765743E+08	1,006837E+09	1,375446E+09	1,375469E+09	1,006891E+09	3,766326E+08
234	8,139175E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142355E+06	3,766018E+08	1,006864E+09	1,375455E+09	1,375469E+09	1,006898E+09	3,766326E+08
235	8,142856E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139561E+06	3,766595E+08	1,006942E+09	1,375528E+09	1,375495E+09	1,006866E+09	3,765790E+08
236	8,137238E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,136665E+06	3,765751E+08	1,006882E+09	1,375525E+09	1,375554E+09	1,006957E+09	3,766718E+08
237	8,140729E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143045E+06	3,766458E+08	1,006927E+09	1,375520E+09	1,375514E+09	1,006904E+09	3,766077E+08
238	8,141480E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137330E+06	3,766408E+08	1,006933E+09	1,375532E+09	1,375514E+09	1,006889E+09	3,765990E+08
239	8,136002E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139449E+06	3,765716E+08	1,006855E+09	1,375476E+09	1,375504E+09	1,006925E+09	3,766603E+08
240	8,143037E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142893E+06	3,766591E+08	1,006903E+09	1,375464E+09	1,375442E+09	1,006832E+09	3,765619E+08

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												
241	8,139009E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137527E+06	3,765907E+08	1,006847E+09	1,375430E+09	1,375422E+09	1,006838E+09	3,766031E+08
242	8,138352E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140881E+06	3,765551E+08	1,006779E+09	1,375351E+09	1,375361E+09	1,006814E+09	3,766135E+08
243	8,145273E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141255E+06	3,766104E+08	1,006802E+09	1,375339E+09	1,375305E+09	1,006719E+09	3,765209E+08
244	8,138410E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138276E+06	3,765121E+08	1,006690E+09	1,375262E+09	1,375291E+09	1,006762E+09	3,765960E+08
245	8,142733E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143638E+06	3,765538E+08	1,006692E+09	1,375203E+09	1,375208E+09	1,006695E+09	3,765433E+08
246	8,143090E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141943E+06	3,765775E+08	1,006715E+09	1,375212E+09	1,375182E+09	1,006642E+09	3,765017E+08
247	8,138127E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139389E+06	3,764912E+08	1,006638E+09	1,375180E+09	1,375205E+09	1,006707E+09	3,765848E+08
248	8,144092E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145226E+06	3,765780E+08	1,006705E+09	1,375207E+09	1,375194E+09	1,006657E+09	3,765095E+08
249	8,141429E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138938E+06	3,765481E+08	1,006709E+09	1,375245E+09	1,375238E+09	1,006697E+09	3,765444E+08
250	8,139912E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140333E+06	3,765078E+08	1,006677E+09	1,375237E+09	1,375269E+09	1,006756E+09	3,765993E+08
251	8,144550E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143976E+06	3,766103E+08	1,006777E+09	1,375303E+09	1,375283E+09	1,006717E+09	3,765200E+08
252	8,139626E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137250E+06	3,765476E+08	1,006757E+09	1,375332E+09	1,375351E+09	1,006805E+09	3,766028E+08
253	8,139682E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143193E+06	3,765762E+08	1,006793E+09	1,375349E+09	1,375353E+09	1,006805E+09	3,765966E+08
254	8,143156E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140377E+06	3,766298E+08	1,006858E+09	1,375415E+09	1,375381E+09	1,006778E+09	3,765426E+08
255	8,137482E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137467E+06	3,765405E+08	1,006785E+09	1,375395E+09	1,375426E+09	1,006865E+09	3,766368E+08
256	8,141254E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144043E+06	3,766130E+08	1,006824E+09	1,375386E+09	1,375393E+09	1,006818E+09	3,765771E+08
257	8,142395E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138151E+06	3,766092E+08	1,006836E+09	1,375394E+09	1,375378E+09	1,006794E+09	3,765674E+08
258	8,136987E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139816E+06	3,765329E+08	1,006753E+09	1,375330E+09	1,375351E+09	1,006816E+09	3,766253E+08
259	8,144370E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142874E+06	3,766146E+08	1,006800E+09	1,375326E+09	1,375294E+09	1,006723E+09	3,765261E+08
260	8,140173E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138145E+06	3,765459E+08	1,006733E+09	1,375286E+09	1,375282E+09	1,006733E+09	3,765668E+08
261	8,139753E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141853E+06	3,765170E+08	1,006670E+09	1,375203E+09	1,375215E+09	1,006705E+09	3,765700E+08
262	8,145623E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143032E+06	3,765782E+08	1,006693E+09	1,375185E+09	1,375156E+09	1,006612E+09	3,764770E+08
263	8,138479E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139818E+06	3,764835E+08	1,006590E+09	1,375111E+09	1,375136E+09	1,006651E+09	3,765545E+08
264	8,142951E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144902E+06	3,765233E+08	1,006597E+09	1,375074E+09	1,375079E+09	1,006597E+09	3,765094E+08
265	8,143900E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142439E+06	3,765435E+08	1,006626E+09	1,375095E+09	1,375062E+09	1,006552E+09	3,764722E+08
266	8,139412E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139255E+06	3,764498E+08	1,006541E+09	1,375054E+09	1,375081E+09	1,006617E+09	3,765552E+08
267	8,145341E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145236E+06	3,765363E+08	1,006608E+09	1,375083E+09	1,375071E+09	1,006573E+09	3,764813E+08
268	8,142398E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139772E+06	3,765160E+08	1,006614E+09	1,375118E+09	1,375118E+09	1,006613E+09	3,765147E+08
269	8,140539E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141637E+06	3,764869E+08	1,006602E+09	1,375116E+09	1,375141E+09	1,006663E+09	3,765617E+08
270	8,144370E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145165E+06	3,765872E+08	1,006704E+09	1,375192E+09	1,375163E+09	1,006626E+09	3,764844E+08
271	8,139769E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137952E+06	3,765185E+08	1,006677E+09	1,375221E+09	1,375233E+09	1,006714E+09	3,765706E+08
272	8,140201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143629E+06	3,765394E+08	1,006700E+09	1,375240E+09	1,375255E+09	1,006730E+09	3,765716E+08
273	8,144536E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140661E+06	3,765933E+08	1,006763E+09	1,375293E+09	1,375269E+09	1,006700E+09	3,765177E+08
274	8,138686E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137913E+06	3,765035E+08	1,006683E+09	1,375252E+09	1,375288E+09	1,006770E+09	3,766054E+08
275	8,142289E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144442E+06	3,765784E+08	1,006732E+09	1,375250E+09	1,375247E+09	1,006716E+09	3,765433E+08
276	8,143124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139166E+06	3,765766E+08	1,006743E+09	1,375263E+09	1,375238E+09	1,006689E+09	3,765301E+08

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	8,137866E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140770E+06	3,765014E+08	1,006663E+09	1,375201E+09	1,375213E+09	1,006705E+09	3,765811E+08
278	8,144748E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143998E+06	3,765775E+08	1,006697E+09	1,375189E+09	1,375158E+09	1,006619E+09	3,764843E+08
279	8,140601E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139453E+06	3,765067E+08	1,006618E+09	1,375132E+09	1,375134E+09	1,006627E+09	3,765260E+08
280	8,140275E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143159E+06	3,764795E+08	1,006554E+09	1,375051E+09	1,375077E+09	1,006607E+09	3,765351E+08
281	8,146362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144183E+06	3,765442E+08	1,006589E+09	1,375035E+09	1,375006E+09	1,006509E+09	3,764429E+08
282	8,139425E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140039E+06	3,764432E+08	1,006485E+09	1,374961E+09	1,374978E+09	1,006537E+09	3,765188E+08
283	8,144253E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144763E+06	3,764793E+08	1,006498E+09	1,374940E+09	1,374936E+09	1,006492E+09	3,764769E+08
284	8,145154E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142893E+06	3,765025E+08	1,006523E+09	1,374964E+09	1,374935E+09	1,006457E+09	3,764400E+08
285	8,140817E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140157E+06	3,764200E+08	1,006451E+09	1,374929E+09	1,374957E+09	1,006523E+09	3,765166E+08
286	8,145486E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146840E+06	3,765129E+08	1,006526E+09	1,374964E+09	1,374953E+09	1,006487E+09	3,764463E+08
287	8,142465E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141029E+06	3,764937E+08	1,006539E+09	1,375005E+09	1,374999E+09	1,006526E+09	3,764814E+08
288	8,140575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142492E+06	3,764596E+08	1,006527E+09	1,375022E+09	1,375048E+09	1,006590E+09	3,765368E+08
289	8,145180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145238E+06	3,765535E+08	1,006624E+09	1,375092E+09	1,375066E+09	1,006554E+09	3,764617E+08
290	8,141019E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,137667E+06	3,764769E+08	1,006580E+09	1,375098E+09	1,375115E+09	1,006631E+09	3,765446E+08
291	8,141489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143656E+06	3,764981E+08	1,006598E+09	1,375107E+09	1,375125E+09	1,006643E+09	3,765442E+08
292	8,145568E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141697E+06	3,765611E+08	1,006662E+09	1,375153E+09	1,375133E+09	1,006605E+09	3,764846E+08
293	8,139394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,139407E+06	3,764816E+08	1,006601E+09	1,375118E+09	1,375141E+09	1,006659E+09	3,765604E+08
294	8,142165E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145740E+06	3,765513E+08	1,006649E+09	1,375125E+09	1,375108E+09	1,006607E+09	3,765005E+08
295	8,143307E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140240E+06	3,765427E+08	1,006649E+09	1,375136E+09	1,375103E+09	1,006582E+09	3,764893E+08
296	8,138429E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141573E+06	3,764607E+08	1,006556E+09	1,375073E+09	1,375095E+09	1,006615E+09	3,765488E+08
297	8,145993E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144748E+06	3,765366E+08	1,006586E+09	1,375046E+09	1,375026E+09	1,006528E+09	3,764541E+08
298	8,141826E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140173E+06	3,764656E+08	1,006501E+09	1,374970E+09	1,374976E+09	1,006519E+09	3,764919E+08
299	8,141577E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143517E+06	3,764382E+08	1,006445E+09	1,374895E+09	1,374914E+09	1,006496E+09	3,765008E+08
300	8,147374E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144977E+06	3,765045E+08	1,006484E+09	1,374890E+09	1,374857E+09	1,006398E+09	3,764065E+08
301	8,140705E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140704E+06	3,764092E+08	1,006390E+09	1,374825E+09	1,374835E+09	1,006423E+09	3,764733E+08
302	8,144642E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145681E+06	3,764428E+08	1,006401E+09	1,374812E+09	1,374807E+09	1,006392E+09	3,764369E+08
303	8,145580E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144107E+06	3,764697E+08	1,006424E+09	1,374834E+09	1,374809E+09	1,006364E+09	3,764032E+08
304	8,141218E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141416E+06	3,763908E+08	1,006359E+09	1,374811E+09	1,374848E+09	1,006444E+09	3,764878E+08
305	8,146021E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147790E+06	3,764858E+08	1,006446E+09	1,374850E+09	1,374838E+09	1,006408E+09	3,764216E+08
306	8,143414E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140993E+06	3,764576E+08	1,006451E+09	1,374885E+09	1,374876E+09	1,006438E+09	3,764548E+08
307	8,141742E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142190E+06	3,764187E+08	1,006435E+09	1,374904E+09	1,374928E+09	1,006505E+09	3,765116E+08
308	8,146378E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145551E+06	3,765147E+08	1,006525E+09	1,374969E+09	1,374951E+09	1,006471E+09	3,764335E+08
309	8,142192E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,138818E+06	3,764522E+08	1,006493E+09	1,374970E+09	1,374986E+09	1,006534E+09	3,765037E+08
310	8,141399E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145399E+06	3,764779E+08	1,006519E+09	1,374985E+09	1,374995E+09	1,006545E+09	3,765048E+08
311	8,145550E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143335E+06	3,765408E+08	1,006587E+09	1,375036E+09	1,375002E+09	1,006505E+09	3,764456E+08
312	8,139429E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140553E+06	3,764531E+08	1,006521E+09	1,375017E+09	1,375036E+09	1,006572E+09	3,765283E+08



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°
313	8,143008E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146049E+06	3,765144E+08	1,006559E+09	1,375012E+09	1,374997E+09	1,006523E+09	3,764727E+08
314	8,144603E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140143E+06	3,764929E+08	1,006534E+09	1,374992E+09	1,374970E+09	1,006488E+09	3,764591E+08
315	8,139997E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141638E+06	3,764120E+08	1,006432E+09	1,374913E+09	1,374944E+09	1,006516E+09	3,765184E+08
316	8,147331E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145695E+06	3,764939E+08	1,006462E+09	1,374877E+09	1,374865E+09	1,006417E+09	3,764177E+08
317	8,142922E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141537E+06	3,764343E+08	1,006396E+09	1,374807E+09	1,374802E+09	1,006390E+09	3,764433E+08
318	8,141987E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144642E+06	3,764039E+08	1,006345E+09	1,374751E+09	1,374756E+09	1,006372E+09	3,764547E+08
319	8,147830E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146036E+06	3,764668E+08	1,006380E+09	1,374752E+09	1,374713E+09	1,006286E+09	3,763644E+08
320	8,141455E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141555E+06	3,763713E+08	1,006290E+09	1,374705E+09	1,374722E+09	1,006335E+09	3,764395E+08
321	8,145563E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146632E+06	3,764101E+08	1,006306E+09	1,374688E+09	1,374692E+09	1,006312E+09	3,764084E+08
322	8,146425E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144714E+06	3,764362E+08	1,006330E+09	1,374703E+09	1,374682E+09	1,006277E+09	3,763744E+08
323	8,142241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141803E+06	3,763589E+08	1,006274E+09	1,374690E+09	1,374723E+09	1,006359E+09	3,764616E+08
324	8,146793E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148330E+06	3,764515E+08	1,006359E+09	1,374736E+09	1,374724E+09	1,006324E+09	3,763942E+08
325	8,144561E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141547E+06	3,764285E+08	1,006367E+09	1,374768E+09	1,374756E+09	1,006344E+09	3,764173E+08
326	8,142019E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143136E+06	3,763877E+08	1,006347E+09	1,374786E+09	1,374811E+09	1,006415E+09	3,764757E+08
327	8,146618E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146850E+06	3,764875E+08	1,006435E+09	1,374843E+09	1,374828E+09	1,006381E+09	3,763980E+08
328	8,142336E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140254E+06	3,764294E+08	1,006413E+09	1,374860E+09	1,374876E+09	1,006450E+09	3,764714E+08
329	8,141747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146291E+06	3,764532E+08	1,006446E+09	1,374877E+09	1,374880E+09	1,006459E+09	3,764761E+08
330	8,146492E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143222E+06	3,765017E+08	1,006496E+09	1,374916E+09	1,374878E+09	1,006411E+09	3,764170E+08
331	8,140905E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140239E+06	3,764066E+08	1,006416E+09	1,374885E+09	1,374907E+09	1,006481E+09	3,765014E+08
332	8,144734E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146196E+06	3,764656E+08	1,006440E+09	1,374866E+09	1,374864E+09	1,006430E+09	3,764430E+08
333	8,146205E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141447E+06	3,764575E+08	1,006419E+09	1,374829E+09	1,374812E+09	1,006375E+09	3,764148E+08
334	8,140400E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143229E+06	3,763809E+08	1,006325E+09	1,374755E+09	1,374782E+09	1,006397E+09	3,764729E+08
335	8,147596E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147321E+06	3,764629E+08	1,006360E+09	1,374727E+09	1,374705E+09	1,006297E+09	3,763721E+08
336	8,143145E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142770E+06	3,764003E+08	1,006300E+09	1,374682E+09	1,374671E+09	1,006282E+09	3,764022E+08
337	8,142795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145216E+06	3,763668E+08	1,006249E+09	1,374625E+09	1,374630E+09	1,006275E+09	3,764193E+08
338	8,148808E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146288E+06	3,764212E+08	1,006269E+09	1,374610E+09	1,374579E+09	1,006190E+09	3,763322E+08
339	8,142827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141997E+06	3,763315E+08	1,006181E+09	1,374560E+09	1,374585E+09	1,006246E+09	3,764101E+08
340	8,146549E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147628E+06	3,763759E+08	1,006206E+09	1,374548E+09	1,374558E+09	1,006221E+09	3,763785E+08
341	8,147353E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145841E+06	3,764101E+08	1,006244E+09	1,374571E+09	1,374542E+09	1,006173E+09	3,763345E+08
342	8,142541E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142642E+06	3,763294E+08	1,006190E+09	1,374573E+09	1,374597E+09	1,006260E+09	3,764242E+08
343	8,147105E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149084E+06	3,764176E+08	1,006268E+09	1,374619E+09	1,374608E+09	1,006234E+09	3,763598E+08
344	8,145135E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142352E+06	3,763980E+08	1,006283E+09	1,374666E+09	1,374658E+09	1,006269E+09	3,763880E+08
345	8,142665E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144196E+06	3,763641E+08	1,006270E+09	1,374678E+09	1,374706E+09	1,006341E+09	3,764491E+08
346	8,147265E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147244E+06	3,764580E+08	1,006353E+09	1,374725E+09	1,374708E+09	1,006299E+09	3,763727E+08
347	8,143465E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,140497E+06	3,763987E+08	1,006334E+09	1,374747E+09	1,374758E+09	1,006369E+09	3,764460E+08
348	8,142858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146456E+06	3,764150E+08	1,006355E+09	1,374761E+09	1,374767E+09	1,006374E+09	3,764480E+08

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	8,147841E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143629E+06	3,764642E+08	1,006396E+09	1,374783E+09	1,374748E+09	1,006312E+09	3,763775E+08
350	8,141528E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141246E+06	3,763685E+08	1,006307E+09	1,374741E+09	1,374768E+09	1,006378E+09	3,764611E+08
351	8,145266E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147594E+06	3,764292E+08	1,006323E+09	1,374706E+09	1,374711E+09	1,006322E+09	3,764011E+08
352	8,146418E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143293E+06	3,764281E+08	1,006317E+09	1,374685E+09	1,374665E+09	1,006267E+09	3,763742E+08
353	8,140861E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144416E+06	3,763515E+08	1,006233E+09	1,374614E+09	1,374632E+09	1,006285E+09	3,764330E+08
354	8,148340E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147500E+06	3,764190E+08	1,006254E+09	1,374582E+09	1,374555E+09	1,006184E+09	3,763352E+08
355	8,144473E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142857E+06	3,763553E+08	1,006190E+09	1,374537E+09	1,374530E+09	1,006182E+09	3,763684E+08
356	8,144345E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145622E+06	3,763223E+08	1,006136E+09	1,374481E+09	1,374497E+09	1,006180E+09	3,763861E+08
357	8,150000E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147650E+06	3,763894E+08	1,006165E+09	1,374462E+09	1,374433E+09	1,006086E+09	3,762919E+08
358	8,143345E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143433E+06	3,763044E+08	1,006090E+09	1,374425E+09	1,374446E+09	1,006143E+09	3,763709E+08
359	8,146778E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148871E+06	3,763463E+08	1,006118E+09	1,374425E+09	1,374429E+09	1,006123E+09	3,763424E+08
360	8,147660E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146678E+06	3,763788E+08	1,006162E+09	1,374469E+09	1,374437E+09	1,006090E+09	3,763029E+08
361	8,143241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142957E+06	3,762967E+08	1,006107E+09	1,374465E+09	1,374493E+09	1,006183E+09	3,763964E+08
362	8,147884E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148960E+06	3,763763E+08	1,006168E+09	1,374493E+09	1,374492E+09	1,006155E+09	3,763351E+08
363	8,146405E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142678E+06	3,763653E+08	1,006188E+09	1,374533E+09	1,374535E+09	1,006190E+09	3,763629E+08
364	8,143677E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144965E+06	3,763350E+08	1,006185E+09	1,374555E+09	1,374583E+09	1,006256E+09	3,764212E+08
365	8,148221E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148102E+06	3,764324E+08	1,006273E+09	1,374603E+09	1,374576E+09	1,006199E+09	3,763359E+08
366	8,144022E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,141245E+06	3,763671E+08	1,006249E+09	1,374630E+09	1,374635E+09	1,006269E+09	3,764078E+08
367	8,143327E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147180E+06	3,763777E+08	1,006255E+09	1,374634E+09	1,374643E+09	1,006281E+09	3,764110E+08
368	8,148346E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144797E+06	3,764300E+08	1,006298E+09	1,374659E+09	1,374629E+09	1,006224E+09	3,763418E+08
369	8,141959E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142768E+06	3,763426E+08	1,006213E+09	1,374604E+09	1,374632E+09	1,006282E+09	3,764254E+08
370	8,145800E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148261E+06	3,763937E+08	1,006222E+09	1,374559E+09	1,374560E+09	1,006216E+09	3,763670E+08
371	8,147383E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143972E+06	3,763923E+08	1,006218E+09	1,374541E+09	1,374516E+09	1,006162E+09	3,763402E+08
372	8,142199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144620E+06	3,763087E+08	1,006129E+09	1,374477E+09	1,374493E+09	1,006181E+09	3,763971E+08
373	8,149681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148008E+06	3,763761E+08	1,006142E+09	1,374433E+09	1,374407E+09	1,006073E+09	3,762934E+08
374	8,145340E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143807E+06	3,763147E+08	1,006077E+09	1,374388E+09	1,374385E+09	1,006074E+09	3,763260E+08
375	8,144961E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146951E+06	3,762869E+08	1,006024E+09	1,374329E+09	1,374351E+09	1,006077E+09	3,763456E+08
376	8,150149E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149267E+06	3,763604E+08	1,006074E+09	1,374334E+09	1,374300E+09	1,005990E+09	3,762565E+08
377	8,143917E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144413E+06	3,762772E+08	1,006007E+09	1,374305E+09	1,374318E+09	1,006049E+09	3,763386E+08
378	8,147506E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148606E+06	3,763017E+08	1,006017E+09	1,374297E+09	1,374302E+09	1,006032E+09	3,763149E+08
379	8,149052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146566E+06	3,763371E+08	1,006060E+09	1,374337E+09	1,374318E+09	1,006010E+09	3,762785E+08
380	8,144774E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143278E+06	3,762601E+08	1,006010E+09	1,374338E+09	1,374376E+09	1,006103E+09	3,763684E+08
381	8,148744E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150053E+06	3,763511E+08	1,006082E+09	1,374363E+09	1,374361E+09	1,006062E+09	3,763008E+08
382	8,146866E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143955E+06	3,763456E+08	1,006118E+09	1,374423E+09	1,374413E+09	1,006095E+09	3,763260E+08
383	8,143752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146175E+06	3,763108E+08	1,006112E+09	1,374450E+09	1,374470E+09	1,006166E+09	3,763853E+08
384	8,148318E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148931E+06	3,764042E+08	1,006201E+09	1,374512E+09	1,374477E+09	1,006119E+09	3,763042E+08

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	8,144547E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142039E+06	3,763366E+08	1,006165E+09	1,374520E+09	1,374527E+09	1,006190E+09	3,763770E+08
386	8,143878E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147250E+06	3,763339E+08	1,006145E+09	1,374494E+09	1,374515E+09	1,006194E+09	3,763824E+08
387	8,149381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145521E+06	3,763938E+08	1,006189E+09	1,374504E+09	1,374485E+09	1,006132E+09	3,763125E+08
388	8,143079E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143551E+06	3,763075E+08	1,006112E+09	1,374456E+09	1,374481E+09	1,006175E+09	3,763904E+08
389	8,146938E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148880E+06	3,763565E+08	1,006119E+09	1,374408E+09	1,374397E+09	1,006094E+09	3,763251E+08
390	8,148328E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144646E+06	3,763514E+08	1,006112E+09	1,374399E+09	1,374365E+09	1,006041E+09	3,762956E+08
391	8,143149E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145345E+06	3,762653E+08	1,006014E+09	1,374330E+09	1,374350E+09	1,006072E+09	3,763540E+08
392	8,150261E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149382E+06	3,763398E+08	1,006039E+09	1,374298E+09	1,374274E+09	1,005975E+09	3,762554E+08
393	8,145884E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145398E+06	3,762869E+08	1,005982E+09	1,374250E+09	1,374247E+09	1,005977E+09	3,762899E+08
394	8,145565E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147452E+06	3,762487E+08	1,005923E+09	1,374188E+09	1,374210E+09	1,005979E+09	3,763143E+08
395	8,151053E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149874E+06	3,763229E+08	1,005973E+09	1,374196E+09	1,374167E+09	1,005898E+09	3,762280E+08
396	8,145332E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144432E+06	3,762363E+08	1,005908E+09	1,374176E+09	1,374192E+09	1,005957E+09	3,763082E+08
397	8,148700E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149001E+06	3,762619E+08	1,005913E+09	1,374157E+09	1,374166E+09	1,005934E+09	3,762802E+08
398	8,149866E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147491E+06	3,763045E+08	1,005963E+09	1,374205E+09	1,374186E+09	1,005913E+09	3,762414E+08
399	8,145132E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144711E+06	3,762363E+08	1,005925E+09	1,374213E+09	1,374249E+09	1,006010E+09	3,763309E+08
400	8,148518E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151580E+06	3,763327E+08	1,006020E+09	1,374267E+09	1,374249E+09	1,005976E+09	3,762683E+08
401	8,147142E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144959E+06	3,763255E+08	1,006057E+09	1,374333E+09	1,374309E+09	1,006012E+09	3,762948E+08
402	8,144159E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145944E+06	3,762711E+08	1,006024E+09	1,374343E+09	1,374365E+09	1,006088E+09	3,763597E+08
403	8,149464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148918E+06	3,763636E+08	1,006101E+09	1,374386E+09	1,374368E+09	1,006048E+09	3,762817E+08
404	8,146042E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,142506E+06	3,762991E+08	1,006064E+09	1,374386E+09	1,374403E+09	1,006106E+09	3,763497E+08
405	8,144968E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148105E+06	3,763003E+08	1,006043E+09	1,374343E+09	1,374363E+09	1,006090E+09	3,763478E+08
406	8,150253E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146650E+06	3,763628E+08	1,006096E+09	1,374365E+09	1,374334E+09	1,006017E+09	3,762720E+08
407	8,143630E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144620E+06	3,762733E+08	1,006015E+09	1,374321E+09	1,374338E+09	1,006063E+09	3,763458E+08
408	8,147276E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149663E+06	3,763197E+08	1,006027E+09	1,374287E+09	1,374267E+09	1,005990E+09	3,762849E+08
409	8,148947E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145743E+06	3,763153E+08	1,006012E+09	1,374266E+09	1,374233E+09	1,005941E+09	3,762561E+08
410	8,143843E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145746E+06	3,762196E+08	1,005893E+09	1,374175E+09	1,374204E+09	1,005972E+09	3,763191E+08
411	8,151149E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150502E+06	3,763025E+08	1,005924E+09	1,374135E+09	1,374124E+09	1,005880E+09	3,762257E+08
412	8,147194E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146290E+06	3,762507E+08	1,005879E+09	1,374102E+09	1,374098E+09	1,005872E+09	3,762567E+08
413	8,146789E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147885E+06	3,762076E+08	1,005815E+09	1,374039E+09	1,374055E+09	1,005865E+09	3,762768E+08
414	8,152052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150417E+06	3,762817E+08	1,005869E+09	1,374059E+09	1,374026E+09	1,005788E+09	3,761886E+08
415	8,146207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145155E+06	3,761992E+08	1,005804E+09	1,374041E+09	1,374061E+09	1,005858E+09	3,762677E+08
416	8,148886E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150431E+06	3,762366E+08	1,005833E+09	1,374045E+09	1,374047E+09	1,005845E+09	3,762457E+08
417	8,150085E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149153E+06	3,762892E+08	1,005898E+09	1,374101E+09	1,374073E+09	1,005829E+09	3,762090E+08
418	8,145404E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145256E+06	3,762092E+08	1,005853E+09	1,374112E+09	1,374142E+09	1,005931E+09	3,763038E+08
419	8,149114E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151997E+06	3,763026E+08	1,005942E+09	1,374164E+09	1,374153E+09	1,005909E+09	3,762482E+08
420	8,148642E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144721E+06	3,762867E+08	1,005970E+09	1,374228E+09	1,374211E+09	1,005940E+09	3,762710E+08

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°
421	8,145352E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145942E+06	3,762277E+08	1,005918E+09	1,374210E+09	1,374240E+09	1,006000E+09	3,763304E+08
422	8,150531E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149549E+06	3,763252E+08	1,005994E+09	1,374244E+09	1,374230E+09	1,005948E+09	3,762459E+08
423	8,146567E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,143962E+06	3,762700E+08	1,005964E+09	1,374239E+09	1,374255E+09	1,005999E+09	3,763087E+08
424	8,145067E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149602E+06	3,762758E+08	1,005963E+09	1,374219E+09	1,374220E+09	1,005980E+09	3,763081E+08
425	8,150692E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147941E+06	3,763347E+08	1,006011E+09	1,374242E+09	1,374197E+09	1,005909E+09	3,762316E+08
426	8,144255E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144772E+06	3,762286E+08	1,005908E+09	1,374185E+09	1,374203E+09	1,005960E+09	3,763086E+08
427	8,148320E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150230E+06	3,762767E+08	1,005910E+09	1,374137E+09	1,374134E+09	1,005899E+09	3,762537E+08
428	8,150315E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146615E+06	3,762752E+08	1,005901E+09	1,374117E+09	1,374092E+09	1,005842E+09	3,762222E+08
429	8,144987E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146704E+06	3,761825E+08	1,005782E+09	1,374015E+09	1,374044E+09	1,005860E+09	3,762824E+08
430	8,152135E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151591E+06	3,762658E+08	1,005821E+09	1,373990E+09	1,373969E+09	1,005762E+09	3,761861E+08
431	8,147996E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147295E+06	3,762141E+08	1,005776E+09	1,373963E+09	1,373954E+09	1,005762E+09	3,762148E+08
432	8,147359E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148687E+06	3,761719E+08	1,005723E+09	1,373915E+09	1,373925E+09	1,005764E+09	3,762383E+08
433	8,152521E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151571E+06	3,762494E+08	1,005775E+09	1,373933E+09	1,373902E+09	1,005694E+09	3,761513E+08
434	8,146691E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145652E+06	3,761640E+08	1,005705E+09	1,373909E+09	1,373935E+09	1,005769E+09	3,762345E+08
435	8,149282E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151544E+06	3,762105E+08	1,005747E+09	1,373920E+09	1,373930E+09	1,005767E+09	3,762212E+08
436	8,151233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149601E+06	3,762607E+08	1,005824E+09	1,373997E+09	1,373963E+09	1,005748E+09	3,761839E+08
437	8,146619E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145304E+06	3,761725E+08	1,005765E+09	1,373997E+09	1,374024E+09	1,005842E+09	3,762760E+08
438	8,150292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152118E+06	3,762625E+08	1,005848E+09	1,374048E+09	1,374039E+09	1,005821E+09	3,762179E+08
439	8,149634E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145454E+06	3,762513E+08	1,005870E+09	1,374099E+09	1,374092E+09	1,005854E+09	3,762356E+08
440	8,145511E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147353E+06	3,762028E+08	1,005834E+09	1,374088E+09	1,374115E+09	1,005910E+09	3,762953E+08
441	8,150705E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151247E+06	3,763060E+08	1,005918E+09	1,374125E+09	1,374102E+09	1,005852E+09	3,762090E+08
442	8,146733E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144800E+06	3,762398E+08	1,005877E+09	1,374116E+09	1,374123E+09	1,005899E+09	3,762717E+08
443	8,145599E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150264E+06	3,762422E+08	1,005869E+09	1,374093E+09	1,374099E+09	1,005890E+09	3,762783E+08
444	8,152196E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148139E+06	3,762927E+08	1,005910E+09	1,374113E+09	1,374072E+09	1,005816E+09	3,762000E+08
445	8,145586E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145044E+06	3,761806E+08	1,005786E+09	1,374029E+09	1,374055E+09	1,005855E+09	3,762727E+08
446	8,149604E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151037E+06	3,762344E+08	1,005791E+09	1,373977E+09	1,373978E+09	1,005786E+09	3,762147E+08
447	8,151056E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148167E+06	3,762398E+08	1,005788E+09	1,373956E+09	1,373932E+09	1,005728E+09	3,761789E+08
448	8,145459E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148029E+06	3,761517E+08	1,005690E+09	1,373877E+09	1,373891E+09	1,005743E+09	3,762403E+08
449	8,152700E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152754E+06	3,762308E+08	1,005724E+09	1,373857E+09	1,373828E+09	1,005651E+09	3,761445E+08
450	8,148713E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147529E+06	3,761692E+08	1,005663E+09	1,373821E+09	1,373817E+09	1,005659E+09	3,761768E+08
451	8,148283E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149437E+06	3,761343E+08	1,005613E+09	1,373773E+09	1,373799E+09	1,005678E+09	3,762094E+08
452	8,153775E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152362E+06	3,762169E+08	1,005681E+09	1,373803E+09	1,373778E+09	1,005609E+09	3,761232E+08
453	8,147812E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146306E+06	3,761335E+08	1,005617E+09	1,373781E+09	1,373805E+09	1,005676E+09	3,762037E+08
454	8,150158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152295E+06	3,761807E+08	1,005668E+09	1,373810E+09	1,373812E+09	1,005674E+09	3,761893E+08
455	8,151913E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150189E+06	3,762289E+08	1,005740E+09	1,373889E+09	1,373857E+09	1,005664E+09	3,761501E+08
456	8,147075E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146072E+06	3,761435E+08	1,005688E+09	1,373894E+09	1,373918E+09	1,005760E+09	3,762430E+08



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	8,150525E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153209E+06	3,762325E+08	1,005759E+09	1,373930E+09	1,373925E+09	1,005737E+09	3,761839E+08
458	8,149885E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146262E+06	3,762200E+08	1,005773E+09	1,373965E+09	1,373964E+09	1,005766E+09	3,762024E+08
459	8,145737E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148713E+06	3,761790E+08	1,005745E+09	1,373955E+09	1,373988E+09	1,005824E+09	3,762676E+08
460	8,151834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151701E+06	3,762746E+08	1,005835E+09	1,374006E+09	1,373976E+09	1,005758E+09	3,761799E+08
461	8,147995E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,144841E+06	3,761983E+08	1,005777E+09	1,373985E+09	1,373988E+09	1,005795E+09	3,762375E+08
462	8,147074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150325E+06	3,761969E+08	1,005762E+09	1,373958E+09	1,373963E+09	1,005785E+09	3,762410E+08
463	8,153260E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149059E+06	3,762522E+08	1,005797E+09	1,373966E+09	1,373933E+09	1,005714E+09	3,761597E+08
464	8,146122E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146664E+06	3,761522E+08	1,005691E+09	1,373886E+09	1,373907E+09	1,005748E+09	3,762318E+08
465	8,150036E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152761E+06	3,762066E+08	1,005698E+09	1,373838E+09	1,373832E+09	1,005677E+09	3,761733E+08
466	8,151422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149197E+06	3,762023E+08	1,005683E+09	1,373813E+09	1,373787E+09	1,005619E+09	3,761391E+08
467	8,146198E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148746E+06	3,761133E+08	1,005579E+09	1,373734E+09	1,373758E+09	1,005647E+09	3,762079E+08
468	8,154153E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152899E+06	3,761850E+08	1,005614E+09	1,373717E+09	1,373695E+09	1,005555E+09	3,761119E+08
469	8,149994E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147798E+06	3,761236E+08	1,005544E+09	1,373664E+09	1,373667E+09	1,005554E+09	3,761405E+08
470	8,149403E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150282E+06	3,760996E+08	1,005511E+09	1,373628E+09	1,373653E+09	1,005572E+09	3,761720E+08
471	8,154218E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153783E+06	3,761903E+08	1,005593E+09	1,373672E+09	1,373643E+09	1,005512E+09	3,760866E+08
472	8,148263E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147479E+06	3,761114E+08	1,005549E+09	1,373675E+09	1,373683E+09	1,005581E+09	3,761678E+08
473	8,150457E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153246E+06	3,761522E+08	1,005591E+09	1,373709E+09	1,373706E+09	1,005589E+09	3,761554E+08
474	8,152378E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150388E+06	3,761906E+08	1,005644E+09	1,373771E+09	1,373748E+09	1,005585E+09	3,761183E+08
475	8,147550E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146961E+06	3,761135E+08	1,005591E+09	1,373769E+09	1,373811E+09	1,005690E+09	3,762190E+08
476	8,151533E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153777E+06	3,762031E+08	1,005674E+09	1,373810E+09	1,373809E+09	1,005659E+09	3,761596E+08
477	8,150926E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,146713E+06	3,761887E+08	1,005685E+09	1,373836E+09	1,373830E+09	1,005671E+09	3,761731E+08
478	8,146881E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149203E+06	3,761467E+08	1,005662E+09	1,373838E+09	1,373859E+09	1,005723E+09	3,762336E+08
479	8,152747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152154E+06	3,762380E+08	1,005741E+09	1,373883E+09	1,373853E+09	1,005663E+09	3,761439E+08
480	8,148777E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,145710E+06	3,761646E+08	1,005686E+09	1,373860E+09	1,373860E+09	1,005696E+09	3,761970E+08
481	8,147517E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151556E+06	3,761623E+08	1,005658E+09	1,373819E+09	1,373829E+09	1,005685E+09	3,761990E+08
482	8,153425E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150279E+06	3,762158E+08	1,005684E+09	1,373809E+09	1,373784E+09	1,005610E+09	3,761190E+08
483	8,146404E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148262E+06	3,761227E+08	1,005584E+09	1,373734E+09	1,373761E+09	1,005646E+09	3,761990E+08
484	8,151418E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153205E+06	3,761658E+08	1,005594E+09	1,373695E+09	1,373686E+09	1,005571E+09	3,761399E+08
485	8,152777E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149393E+06	3,761531E+08	1,005562E+09	1,373655E+09	1,373630E+09	1,005505E+09	3,761023E+08
486	8,147852E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148959E+06	3,760671E+08	1,005462E+09	1,373579E+09	1,373605E+09	1,005533E+09	3,761667E+08
487	8,154964E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153922E+06	3,761462E+08	1,005501E+09	1,373564E+09	1,373549E+09	1,005451E+09	3,760720E+08
488	8,150497E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149437E+06	3,761020E+08	1,005463E+09	1,373534E+09	1,373527E+09	1,005449E+09	3,760990E+08
489	8,149583E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151911E+06	3,760782E+08	1,005437E+09	1,373516E+09	1,373529E+09	1,005474E+09	3,761327E+08
490	8,154250E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154600E+06	3,761596E+08	1,005510E+09	1,373562E+09	1,373530E+09	1,005426E+09	3,760544E+08
491	8,148895E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148128E+06	3,760805E+08	1,005461E+09	1,373567E+09	1,373588E+09	1,005512E+09	3,761448E+08
492	8,151698E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153039E+06	3,761106E+08	1,005498E+09	1,373596E+09	1,373605E+09	1,005520E+09	3,761331E+08

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°
493	8,153562E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150322E+06	3,761483E+08	1,005536E+09	1,373632E+09	1,373622E+09	1,005501E+09	3,760920E+08
494	8,148660E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147550E+06	3,760822E+08	1,005499E+09	1,373633E+09	1,373673E+09	1,005594E+09	3,761868E+08
495	8,152006E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154680E+06	3,761754E+08	1,005590E+09	1,373684E+09	1,373677E+09	1,005564E+09	3,761263E+08
496	8,151597E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147787E+06	3,761668E+08	1,005617E+09	1,373727E+09	1,373702E+09	1,005569E+09	3,761343E+08
497	8,147333E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150228E+06	3,761170E+08	1,005581E+09	1,373728E+09	1,373743E+09	1,005626E+09	3,761930E+08
498	8,153072E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152748E+06	3,761998E+08	1,005639E+09	1,373752E+09	1,373730E+09	1,005574E+09	3,761073E+08
499	8,149174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,147145E+06	3,761338E+08	1,005582E+09	1,373723E+09	1,373738E+09	1,005612E+09	3,761664E+08
500	8,148524E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152266E+06	3,761278E+08	1,005561E+09	1,373682E+09	1,373695E+09	1,005593E+09	3,761687E+08
501	8,154383E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150938E+06	3,761753E+08	1,005575E+09	1,373658E+09	1,373629E+09	1,005501E+09	3,760849E+08
502	8,147719E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148769E+06	3,760828E+08	1,005479E+09	1,373587E+09	1,373605E+09	1,005530E+09	3,761601E+08
503	8,152529E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153638E+06	3,761210E+08	1,005479E+09	1,373544E+09	1,373537E+09	1,005462E+09	3,761005E+08
504	8,153677E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150458E+06	3,761158E+08	1,005455E+09	1,373504E+09	1,373475E+09	1,005390E+09	3,760573E+08
505	8,148440E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150288E+06	3,760334E+08	1,005356E+09	1,373432E+09	1,373458E+09	1,005422E+09	3,761202E+08
506	8,154898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155275E+06	3,761139E+08	1,005399E+09	1,373417E+09	1,373402E+09	1,005347E+09	3,760326E+08
507	8,150758E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150815E+06	3,760755E+08	1,005374E+09	1,373410E+09	1,373404E+09	1,005359E+09	3,760697E+08
508	8,150877E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151988E+06	3,760410E+08	1,005352E+09	1,373407E+09	1,373417E+09	1,005392E+09	3,761071E+08
509	8,155524E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154297E+06	3,761120E+08	1,005404E+09	1,373433E+09	1,373409E+09	1,005341E+09	3,760291E+08
510	8,150605E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148105E+06	3,760398E+08	1,005359E+09	1,373434E+09	1,373461E+09	1,005424E+09	3,761152E+08
511	8,152460E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153747E+06	3,760758E+08	1,005398E+09	1,373460E+09	1,373478E+09	1,005435E+09	3,761028E+08
512	8,154114E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151796E+06	3,761305E+08	1,005464E+09	1,373512E+09	1,373490E+09	1,005404E+09	3,760549E+08
513	8,148756E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149173E+06	3,760648E+08	1,005433E+09	1,373530E+09	1,373555E+09	1,005497E+09	3,761462E+08
514	8,151749E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155535E+06	3,761482E+08	1,005514E+09	1,373578E+09	1,373564E+09	1,005475E+09	3,760917E+08
515	8,151968E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148711E+06	3,761382E+08	1,005533E+09	1,373622E+09	1,373604E+09	1,005492E+09	3,761064E+08
516	8,148420E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150392E+06	3,760776E+08	1,005487E+09	1,373611E+09	1,373633E+09	1,005548E+09	3,761651E+08
517	8,154016E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153001E+06	3,761561E+08	1,005524E+09	1,373601E+09	1,373590E+09	1,005481E+09	3,760779E+08
518	8,150347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148071E+06	3,760992E+08	1,005478E+09	1,373569E+09	1,373581E+09	1,005504E+09	3,761310E+08
519	8,149312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152939E+06	3,760888E+08	1,005454E+09	1,373531E+09	1,373540E+09	1,005483E+09	3,761327E+08
520	8,155429E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152005E+06	3,761408E+08	1,005477E+09	1,373514E+09	1,373473E+09	1,005380E+09	3,760414E+08
521	8,148570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149731E+06	3,760433E+08	1,005371E+09	1,373443E+09	1,373455E+09	1,005411E+09	3,761114E+08
522	8,152957E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154380E+06	3,760776E+08	1,005361E+09	1,373388E+09	1,373386E+09	1,005352E+09	3,760582E+08
523	8,154080E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152082E+06	3,760847E+08	1,005349E+09	1,373360E+09	1,373340E+09	1,005292E+09	3,760229E+08
524	8,149586E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150990E+06	3,760006E+08	1,005266E+09	1,373303E+09	1,373326E+09	1,005329E+09	3,760887E+08
525	8,155757E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155744E+06	3,760743E+08	1,005299E+09	1,373284E+09	1,373267E+09	1,005252E+09	3,760049E+08
526	8,152311E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151014E+06	3,760370E+08	1,005279E+09	1,373285E+09	1,373275E+09	1,005265E+09	3,760389E+08
527	8,151988E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152056E+06	3,759973E+08	1,005249E+09	1,373279E+09	1,373298E+09	1,005306E+09	3,760769E+08
528	8,156362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155231E+06	3,760791E+08	1,005309E+09	1,373301E+09	1,373279E+09	1,005245E+09	3,759916E+08

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												
529	8,150930E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149525E+06	3,760149E+08	1,005270E+09	1,373305E+09	1,373330E+09	1,005326E+09	3,760732E+08
530	8,151972E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155192E+06	3,760529E+08	1,005315E+09	1,373332E+09	1,373346E+09	1,005341E+09	3,760680E+08
531	8,154167E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153259E+06	3,761115E+08	1,005394E+09	1,373409E+09	1,373382E+09	1,005321E+09	3,760278E+08
532	8,149807E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149406E+06	3,760342E+08	1,005363E+09	1,373438E+09	1,373456E+09	1,005419E+09	3,761192E+08
533	8,152732E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155250E+06	3,761044E+08	1,005416E+09	1,373459E+09	1,373452E+09	1,005393E+09	3,760668E+08
534	8,153553E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,148846E+06	3,760989E+08	1,005435E+09	1,373493E+09	1,373478E+09	1,005405E+09	3,760764E+08
535	8,149260E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150981E+06	3,760403E+08	1,005384E+09	1,373472E+09	1,373500E+09	1,005458E+09	3,761346E+08
536	8,154872E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154299E+06	3,761287E+08	1,005434E+09	1,373461E+09	1,373440E+09	1,005371E+09	3,760389E+08
537	8,150908E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149605E+06	3,760701E+08	1,005386E+09	1,373436E+09	1,373435E+09	1,005389E+09	3,760862E+08
538	8,149643E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153737E+06	3,760497E+08	1,005346E+09	1,373387E+09	1,373395E+09	1,005374E+09	3,760925E+08
539	8,156096E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153070E+06	3,761006E+08	1,005366E+09	1,373374E+09	1,373340E+09	1,005279E+09	3,760062E+08
540	8,149911E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150066E+06	3,759987E+08	1,005258E+09	1,373298E+09	1,373317E+09	1,005310E+09	3,760738E+08
541	8,153807E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154782E+06	3,760312E+08	1,005237E+09	1,373223E+09	1,373229E+09	1,005244E+09	3,760233E+08
542	8,155231E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153039E+06	3,760498E+08	1,005247E+09	1,373208E+09	1,373179E+09	1,005180E+09	3,759861E+08
543	8,150586E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151635E+06	3,759629E+08	1,005166E+09	1,373165E+09	1,373184E+09	1,005226E+09	3,760544E+08
544	8,156770E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156852E+06	3,760414E+08	1,005207E+09	1,373152E+09	1,373129E+09	1,005144E+09	3,759663E+08
545	8,153158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152063E+06	3,760026E+08	1,005181E+09	1,373157E+09	1,373148E+09	1,005165E+09	3,759965E+08
546	8,152130E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153032E+06	3,759622E+08	1,005145E+09	1,373142E+09	1,373170E+09	1,005216E+09	3,760408E+08
547	8,156359E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156831E+06	3,760553E+08	1,005223E+09	1,373183E+09	1,373166E+09	1,005163E+09	3,759629E+08
548	8,151702E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150235E+06	3,759916E+08	1,005202E+09	1,373204E+09	1,373221E+09	1,005245E+09	3,760443E+08
549	8,152433E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155455E+06	3,760206E+08	1,005236E+09	1,373226E+09	1,373233E+09	1,005258E+09	3,760450E+08
550	8,155657E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153309E+06	3,760795E+08	1,005317E+09	1,373305E+09	1,373271E+09	1,005240E+09	3,760024E+08
551	8,151023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,149320E+06	3,759928E+08	1,005269E+09	1,373323E+09	1,373350E+09	1,005343E+09	3,760929E+08
552	8,153822E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155996E+06	3,760706E+08	1,005319E+09	1,373329E+09	1,373325E+09	1,005301E+09	3,760321E+08
553	8,154149E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150259E+06	3,760694E+08	1,005337E+09	1,373355E+09	1,373342E+09	1,005302E+09	3,760331E+08
554	8,149032E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152247E+06	3,760094E+08	1,005284E+09	1,373327E+09	1,373353E+09	1,005353E+09	3,760965E+08
555	8,155244E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155617E+06	3,760975E+08	1,005341E+09	1,373335E+09	1,373309E+09	1,005269E+09	3,760059E+08
556	8,152166E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150019E+06	3,760301E+08	1,005287E+09	1,373307E+09	1,373303E+09	1,005287E+09	3,760502E+08
557	8,150832E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153675E+06	3,759994E+08	1,005224E+09	1,373231E+09	1,373246E+09	1,005267E+09	3,760591E+08
558	8,157704E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153743E+06	3,760586E+08	1,005249E+09	1,373213E+09	1,373182E+09	1,005171E+09	3,759688E+08
559	8,150892E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150947E+06	3,759603E+08	1,005148E+09	1,373145E+09	1,373166E+09	1,005203E+09	3,760354E+08
560	8,154584E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156348E+06	3,760037E+08	1,005145E+09	1,373080E+09	1,373074E+09	1,005126E+09	3,759803E+08
561	8,155686E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154614E+06	3,760201E+08	1,005157E+09	1,373082E+09	1,373042E+09	1,005069E+09	3,759401E+08
562	8,150852E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152499E+06	3,759264E+08	1,005065E+09	1,373032E+09	1,373053E+09	1,005128E+09	3,760173E+08
563	8,157233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157935E+06	3,760036E+08	1,005106E+09	1,373030E+09	1,373014E+09	1,005058E+09	3,759365E+08
564	8,154316E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152499E+06	3,759652E+08	1,005082E+09	1,373029E+09	1,373029E+09	1,005081E+09	3,759650E+08

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	8,152726E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153421E+06	3,759246E+08	1,005039E+09	1,372998E+09	1,373034E+09	1,005125E+09	3,760137E+08
566	8,157414E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157380E+06	3,760260E+08	1,005139E+09	1,373056E+09	1,373031E+09	1,005072E+09	3,759357E+08
567	8,152876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150364E+06	3,759583E+08	1,005121E+09	1,373096E+09	1,373107E+09	1,005159E+09	3,760166E+08
568	8,153566E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156084E+06	3,759899E+08	1,005155E+09	1,373115E+09	1,373116E+09	1,005164E+09	3,760110E+08
569	8,156626E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154026E+06	3,760469E+08	1,005228E+09	1,373192E+09	1,373160E+09	1,005150E+09	3,759635E+08
570	8,151235E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150433E+06	3,759618E+08	1,005171E+09	1,373193E+09	1,373228E+09	1,005257E+09	3,760584E+08
571	8,153915E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157536E+06	3,760447E+08	1,005232E+09	1,373210E+09	1,373209E+09	1,005217E+09	3,760026E+08
572	8,154944E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151250E+06	3,760419E+08	1,005255E+09	1,373239E+09	1,373220E+09	1,005212E+09	3,760002E+08
573	8,149562E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152575E+06	3,759700E+08	1,005182E+09	1,373191E+09	1,373217E+09	1,005254E+09	3,760665E+08
574	8,156758E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155836E+06	3,760566E+08	1,005238E+09	1,373195E+09	1,373166E+09	1,005168E+09	3,759727E+08
575	8,153431E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,150319E+06	3,759840E+08	1,005172E+09	1,373159E+09	1,373161E+09	1,005184E+09	3,760127E+08
576	8,151936E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154824E+06	3,759633E+08	1,005111E+09	1,373071E+09	1,373085E+09	1,005147E+09	3,760130E+08
577	8,158133E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155526E+06	3,760281E+08	1,005144E+09	1,373058E+09	1,373023E+09	1,005050E+09	3,759193E+08
578	8,150865E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152453E+06	3,759293E+08	1,005047E+09	1,372996E+09	1,373011E+09	1,005091E+09	3,759934E+08
579	8,155039E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157649E+06	3,759695E+08	1,005051E+09	1,372960E+09	1,372947E+09	1,005026E+09	3,759469E+08
580	8,156970E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155064E+06	3,759784E+08	1,005056E+09	1,372958E+09	1,372923E+09	1,004977E+09	3,759065E+08
581	8,152005E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152338E+06	3,758773E+08	1,004944E+09	1,372884E+09	1,372920E+09	1,005037E+09	3,759892E+08
582	8,158690E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158360E+06	3,759642E+08	1,004997E+09	1,372881E+09	1,372873E+09	1,004967E+09	3,759077E+08
583	8,155419E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152989E+06	3,759308E+08	1,004985E+09	1,372892E+09	1,372894E+09	1,004990E+09	3,759345E+08
584	8,153635E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154627E+06	3,759015E+08	1,004961E+09	1,372876E+09	1,372899E+09	1,005022E+09	3,759774E+08
585	8,157973E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158500E+06	3,760013E+08	1,005064E+09	1,372951E+09	1,372917E+09	1,004977E+09	3,758969E+08
586	8,153203E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151084E+06	3,759283E+08	1,005038E+09	1,372988E+09	1,373000E+09	1,005077E+09	3,759831E+08
587	8,153849E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157114E+06	3,759589E+08	1,005072E+09	1,373017E+09	1,373023E+09	1,005091E+09	3,759830E+08
588	8,157392E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154622E+06	3,760153E+08	1,005140E+09	1,373077E+09	1,373054E+09	1,005075E+09	3,759321E+08
589	8,151441E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151048E+06	3,759287E+08	1,005072E+09	1,373053E+09	1,373095E+09	1,005168E+09	3,760310E+08
590	8,154876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158085E+06	3,760131E+08	1,005142E+09	1,373074E+09	1,373068E+09	1,005122E+09	3,759740E+08
591	8,156133E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151585E+06	3,760033E+08	1,005158E+09	1,373109E+09	1,373087E+09	1,005114E+09	3,759682E+08
592	8,150864E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153354E+06	3,759339E+08	1,005079E+09	1,373050E+09	1,373071E+09	1,005140E+09	3,760248E+08
593	8,157758E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156812E+06	3,760185E+08	1,005129E+09	1,373049E+09	1,373022E+09	1,005055E+09	3,759259E+08
594	8,153634E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151713E+06	3,759500E+08	1,005063E+09	1,373006E+09	1,373010E+09	1,005074E+09	3,759687E+08
595	8,152197E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156415E+06	3,759340E+08	1,005018E+09	1,372942E+09	1,372949E+09	1,005044E+09	3,759751E+08
596	8,158831E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156632E+06	3,759956E+08	1,005055E+09	1,372934E+09	1,372893E+09	1,004952E+09	3,758828E+08
597	8,151664E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152731E+06	3,758859E+08	1,004936E+09	1,372854E+09	1,372874E+09	1,004992E+09	3,759637E+08
598	8,156772E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157621E+06	3,759219E+08	1,004936E+09	1,372811E+09	1,372808E+09	1,004932E+09	3,759183E+08
599	8,158590E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155200E+06	3,759279E+08	1,004933E+09	1,372805E+09	1,372784E+09	1,004882E+09	3,758747E+08
600	8,153330E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153337E+06	3,758411E+08	1,004828E+09	1,372720E+09	1,372760E+09	1,004922E+09	3,759468E+08



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°
601	8,159043E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159786E+06	3,759355E+08	1,004900E+09	1,372734E+09	1,372721E+09	1,004854E+09	3,758629E+08
602	8,155398E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154346E+06	3,759073E+08	1,004903E+09	1,372766E+09	1,372757E+09	1,004887E+09	3,758955E+08
603	8,153872E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155875E+06	3,758768E+08	1,004893E+09	1,372785E+09	1,372796E+09	1,004935E+09	3,759458E+08
604	8,158753E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159017E+06	3,759711E+08	1,004989E+09	1,372856E+09	1,372825E+09	1,004904E+09	3,758680E+08
605	8,153964E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,151212E+06	3,758910E+08	1,004942E+09	1,372868E+09	1,372893E+09	1,005004E+09	3,759588E+08
606	8,154815E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157562E+06	3,759268E+08	1,004982E+09	1,372890E+09	1,372905E+09	1,005017E+09	3,759590E+08
607	8,158303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155039E+06	3,759829E+08	1,005053E+09	1,372956E+09	1,372933E+09	1,004993E+09	3,759049E+08
608	8,152270E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152169E+06	3,759034E+08	1,004988E+09	1,372926E+09	1,372957E+09	1,005065E+09	3,759945E+08
609	8,155558E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158830E+06	3,759809E+08	1,005053E+09	1,372950E+09	1,372938E+09	1,005018E+09	3,759341E+08
610	8,156648E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152420E+06	3,759676E+08	1,005058E+09	1,372974E+09	1,372953E+09	1,005014E+09	3,759295E+08
611	8,151470E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154465E+06	3,758980E+08	1,004981E+09	1,372925E+09	1,372945E+09	1,005043E+09	3,759867E+08
612	8,158449E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157788E+06	3,759837E+08	1,005027E+09	1,372910E+09	1,372887E+09	1,004957E+09	3,758872E+08
613	8,153942E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152438E+06	3,759115E+08	1,004953E+09	1,372851E+09	1,372858E+09	1,004969E+09	3,759348E+08
614	8,153453E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156817E+06	3,758950E+08	1,004915E+09	1,372793E+09	1,372799E+09	1,004942E+09	3,759438E+08
615	8,160287E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156845E+06	3,759471E+08	1,004940E+09	1,372789E+09	1,372751E+09	1,004849E+09	3,758506E+08
616	8,153367E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153444E+06	3,758432E+08	1,004816E+09	1,372693E+09	1,372717E+09	1,004877E+09	3,759232E+08
617	8,157989E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158559E+06	3,758800E+08	1,004817E+09	1,372650E+09	1,372654E+09	1,004819E+09	3,758731E+08
618	8,158775E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156777E+06	3,758961E+08	1,004824E+09	1,372647E+09	1,372629E+09	1,004774E+09	3,758322E+08
619	8,153492E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154987E+06	3,758186E+08	1,004750E+09	1,372604E+09	1,372629E+09	1,004821E+09	3,759080E+08
620	8,159212E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160902E+06	3,759112E+08	1,004830E+09	1,372633E+09	1,372609E+09	1,004766E+09	3,758291E+08
621	8,155860E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154532E+06	3,758744E+08	1,004821E+09	1,372658E+09	1,372649E+09	1,004806E+09	3,758696E+08
622	8,155142E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155898E+06	3,758408E+08	1,004808E+09	1,372673E+09	1,372692E+09	1,004866E+09	3,759235E+08
623	8,159998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158985E+06	3,759296E+08	1,004891E+09	1,372738E+09	1,372719E+09	1,004835E+09	3,758446E+08
624	8,155102E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152163E+06	3,758619E+08	1,004844E+09	1,372729E+09	1,372759E+09	1,004911E+09	3,759252E+08
625	8,155183E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158471E+06	3,758976E+08	1,004893E+09	1,372758E+09	1,372770E+09	1,004918E+09	3,759215E+08
626	8,158476E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156019E+06	3,759540E+08	1,004966E+09	1,372830E+09	1,372799E+09	1,004894E+09	3,758694E+08
627	8,152774E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153190E+06	3,758735E+08	1,004909E+09	1,372823E+09	1,372840E+09	1,004968E+09	3,759589E+08
628	8,156366E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159305E+06	3,759452E+08	1,004962E+09	1,372833E+09	1,372822E+09	1,004929E+09	3,758998E+08
629	8,157386E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,152899E+06	3,759282E+08	1,004949E+09	1,372829E+09	1,372818E+09	1,004920E+09	3,758972E+08
630	8,152567E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155145E+06	3,758626E+08	1,004878E+09	1,372775E+09	1,372802E+09	1,004949E+09	3,759548E+08
631	8,159505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158387E+06	3,759448E+08	1,004925E+09	1,372768E+09	1,372746E+09	1,004859E+09	3,758553E+08
632	8,155111E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153688E+06	3,758770E+08	1,004847E+09	1,372701E+09	1,372702E+09	1,004851E+09	3,758934E+08
633	8,154485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157425E+06	3,758527E+08	1,004805E+09	1,372647E+09	1,372651E+09	1,004827E+09	3,759003E+08
634	8,160867E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157952E+06	3,759045E+08	1,004822E+09	1,372633E+09	1,372600E+09	1,004740E+09	3,758094E+08
635	8,154029E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154769E+06	3,758070E+08	1,004709E+09	1,372551E+09	1,372571E+09	1,004767E+09	3,758806E+08
636	8,158382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159819E+06	3,758482E+08	1,004716E+09	1,372504E+09	1,372509E+09	1,004715E+09	3,758329E+08

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°
637	8,158869E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157683E+06	3,758640E+08	1,004726E+09	1,372502E+09	1,372480E+09	1,004670E+09	3,757988E+08
638	8,154573E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155369E+06	3,757866E+08	1,004666E+09	1,372481E+09	1,372502E+09	1,004730E+09	3,758791E+08
639	8,160427E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160877E+06	3,758698E+08	1,004740E+09	1,372523E+09	1,372501E+09	1,004686E+09	3,758050E+08
640	8,157514E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154938E+06	3,758380E+08	1,004724E+09	1,372534E+09	1,372529E+09	1,004717E+09	3,758377E+08
641	8,156151E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156434E+06	3,758055E+08	1,004713E+09	1,372548E+09	1,372574E+09	1,004779E+09	3,758891E+08
642	8,160143E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160164E+06	3,759018E+08	1,004802E+09	1,372610E+09	1,372594E+09	1,004749E+09	3,758122E+08
643	8,155325E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153609E+06	3,758421E+08	1,004778E+09	1,372629E+09	1,372644E+09	1,004822E+09	3,758914E+08
644	8,155303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159402E+06	3,758723E+08	1,004820E+09	1,372657E+09	1,372662E+09	1,004834E+09	3,758902E+08
645	8,158968E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156204E+06	3,759182E+08	1,004875E+09	1,372710E+09	1,372682E+09	1,004808E+09	3,758427E+08
646	8,154073E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,153408E+06	3,758353E+08	1,004813E+09	1,372695E+09	1,372721E+09	1,004886E+09	3,759305E+08
647	8,157562E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159427E+06	3,759011E+08	1,004853E+09	1,372695E+09	1,372692E+09	1,004839E+09	3,758696E+08
648	8,158476E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154119E+06	3,758954E+08	1,004841E+09	1,372671E+09	1,372659E+09	1,004807E+09	3,758563E+08
649	8,153199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156177E+06	3,758292E+08	1,004779E+09	1,372627E+09	1,372645E+09	1,004831E+09	3,759112E+08
650	8,159836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159582E+06	3,759084E+08	1,004821E+09	1,372623E+09	1,372593E+09	1,004746E+09	3,758155E+08
651	8,155902E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154973E+06	3,758411E+08	1,004751E+09	1,372574E+09	1,372563E+09	1,004741E+09	3,758523E+08
652	8,155423E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158163E+06	3,758109E+08	1,004693E+09	1,372504E+09	1,372514E+09	1,004725E+09	3,758611E+08
653	8,161461E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158741E+06	3,758617E+08	1,004702E+09	1,372471E+09	1,372446E+09	1,004635E+09	3,757740E+08
654	8,155100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155542E+06	3,757725E+08	1,004606E+09	1,372397E+09	1,372421E+09	1,004666E+09	3,758459E+08
655	8,159352E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160281E+06	3,758102E+08	1,004620E+09	1,372373E+09	1,372372E+09	1,004617E+09	3,758024E+08
656	8,160077E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158556E+06	3,758313E+08	1,004632E+09	1,372371E+09	1,372342E+09	1,004564E+09	3,757630E+08
657	8,155846E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155650E+06	3,757489E+08	1,004574E+09	1,372361E+09	1,372382E+09	1,004636E+09	3,758430E+08
658	8,160967E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161752E+06	3,758324E+08	1,004641E+09	1,372398E+09	1,372384E+09	1,004602E+09	3,757736E+08
659	8,158208E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156133E+06	3,758091E+08	1,004639E+09	1,372422E+09	1,372415E+09	1,004630E+09	3,758021E+08
660	8,156141E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157595E+06	3,757800E+08	1,004629E+09	1,372429E+09	1,372456E+09	1,004696E+09	3,758559E+08
661	8,160030E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160870E+06	3,758729E+08	1,004717E+09	1,372485E+09	1,372466E+09	1,004660E+09	3,757842E+08
662	8,156201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154024E+06	3,758124E+08	1,004698E+09	1,372512E+09	1,372525E+09	1,004737E+09	3,758647E+08
663	8,156499E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159345E+06	3,758318E+08	1,004728E+09	1,372542E+09	1,372549E+09	1,004752E+09	3,758661E+08
664	8,160632E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156876E+06	3,758822E+08	1,004772E+09	1,372572E+09	1,372548E+09	1,004710E+09	3,758082E+08
665	8,155121E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154200E+06	3,758005E+08	1,004714E+09	1,372558E+09	1,372585E+09	1,004783E+09	3,758899E+08
666	8,157717E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160780E+06	3,758716E+08	1,004759E+09	1,372557E+09	1,372551E+09	1,004738E+09	3,758321E+08
667	8,158828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155725E+06	3,758701E+08	1,004765E+09	1,372558E+09	1,372526E+09	1,004700E+09	3,758146E+08
668	8,153465E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157152E+06	3,757968E+08	1,004689E+09	1,372505E+09	1,372518E+09	1,004732E+09	3,758738E+08
669	8,160502E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159964E+06	3,758638E+08	1,004709E+09	1,372478E+09	1,372454E+09	1,004646E+09	3,757835E+08
670	8,157353E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155517E+06	3,757963E+08	1,004631E+09	1,372417E+09	1,372421E+09	1,004644E+09	3,758195E+08
671	8,156915E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158445E+06	3,757625E+08	1,004568E+09	1,372341E+09	1,372363E+09	1,004623E+09	3,758280E+08
672	8,162650E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159943E+06	3,758239E+08	1,004583E+09	1,372299E+09	1,372273E+09	1,004512E+09	3,757320E+08

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												
673	8,156045E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156266E+06	3,757369E+08	1,004506E+09	1,372252E+09	1,372263E+09	1,004545E+09	3,758011E+08
674	8,159727E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161294E+06	3,757746E+08	1,004525E+09	1,372242E+09	1,372233E+09	1,004510E+09	3,757645E+08
675	8,160869E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159668E+06	3,758003E+08	1,004551E+09	1,372265E+09	1,372226E+09	1,004468E+09	3,757247E+08
676	8,156510E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156606E+06	3,757174E+08	1,004483E+09	1,372246E+09	1,372273E+09	1,004555E+09	3,758090E+08
677	8,161123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162637E+06	3,757992E+08	1,004543E+09	1,372266E+09	1,372262E+09	1,004521E+09	3,757467E+08
678	8,159020E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156968E+06	3,757830E+08	1,004554E+09	1,372298E+09	1,372299E+09	1,004554E+09	3,757761E+08
679	8,156922E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157925E+06	3,757467E+08	1,004546E+09	1,372318E+09	1,372343E+09	1,004615E+09	3,758319E+08
680	8,161127E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161319E+06	3,758399E+08	1,004628E+09	1,372364E+09	1,372340E+09	1,004565E+09	3,757537E+08
681	8,157476E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,154174E+06	3,757770E+08	1,004610E+09	1,372396E+09	1,372406E+09	1,004643E+09	3,758292E+08
682	8,157031E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160178E+06	3,757963E+08	1,004631E+09	1,372416E+09	1,372426E+09	1,004661E+09	3,758325E+08
683	8,161340E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158272E+06	3,758565E+08	1,004689E+09	1,372453E+09	1,372422E+09	1,004613E+09	3,757685E+08
684	8,155158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155626E+06	3,757752E+08	1,004627E+09	1,372431E+09	1,372455E+09	1,004687E+09	3,758511E+08
685	8,157812E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161510E+06	3,758370E+08	1,004663E+09	1,372422E+09	1,372411E+09	1,004637E+09	3,757996E+08
686	8,159921E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156349E+06	3,758312E+08	1,004662E+09	1,372424E+09	1,372396E+09	1,004605E+09	3,757834E+08
687	8,155031E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157072E+06	3,757465E+08	1,004570E+09	1,372362E+09	1,372384E+09	1,004636E+09	3,758444E+08
688	8,162324E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160584E+06	3,758161E+08	1,004579E+09	1,372307E+09	1,372292E+09	1,004532E+09	3,757449E+08
689	8,158651E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156444E+06	3,757559E+08	1,004513E+09	1,372250E+09	1,372253E+09	1,004522E+09	3,757733E+08
690	8,157311E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159928E+06	3,757299E+08	1,004461E+09	1,372184E+09	1,372200E+09	1,004504E+09	3,757846E+08
691	8,163037E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161738E+06	3,757986E+08	1,004502E+09	1,372175E+09	1,372130E+09	1,004396E+09	3,756862E+08
692	8,156305E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157371E+06	3,757072E+08	1,004421E+09	1,372136E+09	1,372142E+09	1,004447E+09	3,757611E+08
693	8,160099E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161857E+06	3,757359E+08	1,004426E+09	1,372117E+09	1,372113E+09	1,004422E+09	3,757345E+08
694	8,161955E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160270E+06	3,757619E+08	1,004447E+09	1,372134E+09	1,372112E+09	1,004391E+09	3,756973E+08
695	8,157733E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156893E+06	3,756782E+08	1,004379E+09	1,372112E+09	1,372152E+09	1,004475E+09	3,757840E+08
696	8,162062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163463E+06	3,757662E+08	1,004443E+09	1,372120E+09	1,372118E+09	1,004423E+09	3,757153E+08
697	8,160028E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157298E+06	3,757510E+08	1,004469E+09	1,372174E+09	1,372164E+09	1,004451E+09	3,757405E+08
698	8,157405E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158663E+06	3,757146E+08	1,004460E+09	1,372202E+09	1,372222E+09	1,004522E+09	3,758003E+08
699	8,162051E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162197E+06	3,758118E+08	1,004553E+09	1,372263E+09	1,372230E+09	1,004474E+09	3,757179E+08
700	8,158026E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155208E+06	3,757502E+08	1,004528E+09	1,372286E+09	1,372298E+09	1,004560E+09	3,757930E+08
701	8,157099E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161163E+06	3,757675E+08	1,004542E+09	1,372290E+09	1,372304E+09	1,004575E+09	3,758016E+08
702	8,161958E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159266E+06	3,758299E+08	1,004604E+09	1,372333E+09	1,372305E+09	1,004530E+09	3,757391E+08
703	8,156074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156052E+06	3,757391E+08	1,004536E+09	1,372311E+09	1,372335E+09	1,004600E+09	3,758241E+08
704	8,159205E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161802E+06	3,757940E+08	1,004553E+09	1,372278E+09	1,372271E+09	1,004534E+09	3,757668E+08
705	8,161481E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156689E+06	3,757850E+08	1,004547E+09	1,372274E+09	1,372250E+09	1,004496E+09	3,757435E+08
706	8,155863E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158103E+06	3,757036E+08	1,004446E+09	1,372198E+09	1,372227E+09	1,004524E+09	3,758031E+08
707	8,163031E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162266E+06	3,757850E+08	1,004475E+09	1,372152E+09	1,372129E+09	1,004410E+09	3,756960E+08
708	8,158562E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158205E+06	3,757295E+08	1,004417E+09	1,372102E+09	1,372096E+09	1,004404E+09	3,757251E+08

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°
709	8,157332E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160832E+06	3,756953E+08	1,004363E+09	1,372043E+09	1,372049E+09	1,004390E+09	3,757453E+08
710	8,163895E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162493E+06	3,757607E+08	1,004402E+09	1,372047E+09	1,372008E+09	1,004304E+09	3,756554E+08
711	8,158002E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157382E+06	3,756613E+08	1,004312E+09	1,372006E+09	1,372024E+09	1,004363E+09	3,757345E+08
712	8,161727E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162252E+06	3,756910E+08	1,004309E+09	1,371966E+09	1,371975E+09	1,004328E+09	3,757043E+08
713	8,163285E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160823E+06	3,757252E+08	1,004345E+09	1,371993E+09	1,371973E+09	1,004293E+09	3,756620E+08
714	8,158201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157952E+06	3,756489E+08	1,004287E+09	1,371980E+09	1,372017E+09	1,004379E+09	3,757505E+08
715	8,162479E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164656E+06	3,757429E+08	1,004373E+09	1,372014E+09	1,371997E+09	1,004325E+09	3,756776E+08
716	8,160320E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158184E+06	3,757261E+08	1,004394E+09	1,372071E+09	1,372058E+09	1,004366E+09	3,757047E+08
717	8,157668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159289E+06	3,756824E+08	1,004374E+09	1,372089E+09	1,372113E+09	1,004440E+09	3,757704E+08
718	8,162810E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162973E+06	3,757808E+08	1,004460E+09	1,372145E+09	1,372128E+09	1,004403E+09	3,756916E+08
719	8,159061E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,155769E+06	3,757178E+08	1,004435E+09	1,372162E+09	1,372183E+09	1,004481E+09	3,757659E+08
720	8,157876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161816E+06	3,757342E+08	1,004446E+09	1,372151E+09	1,372163E+09	1,004476E+09	3,757695E+08
721	8,162998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159570E+06	3,757930E+08	1,004512E+09	1,372202E+09	1,372165E+09	1,004425E+09	3,757018E+08
722	8,156717E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156894E+06	3,757011E+08	1,004431E+09	1,372173E+09	1,372198E+09	1,004497E+09	3,757883E+08
723	8,160350E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162830E+06	3,757582E+08	1,004453E+09	1,372140E+09	1,372130E+09	1,004426E+09	3,757239E+08
724	8,161939E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158231E+06	3,757521E+08	1,004439E+09	1,372124E+09	1,372104E+09	1,004388E+09	3,756991E+08
725	8,156063E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159358E+06	3,756709E+08	1,004340E+09	1,372042E+09	1,372070E+09	1,004411E+09	3,757617E+08
726	8,163540E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163470E+06	3,757525E+08	1,004375E+09	1,372011E+09	1,371988E+09	1,004306E+09	3,756601E+08
727	8,159623E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158586E+06	3,756899E+08	1,004318E+09	1,371972E+09	1,371964E+09	1,004304E+09	3,756928E+08
728	8,158875E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160890E+06	3,756495E+08	1,004252E+09	1,371898E+09	1,371909E+09	1,004288E+09	3,757123E+08
729	8,165483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162625E+06	3,757127E+08	1,004288E+09	1,371903E+09	1,371869E+09	1,004204E+09	3,756205E+08
730	8,159098E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158282E+06	3,756206E+08	1,004195E+09	1,371854E+09	1,371884E+09	1,004267E+09	3,757001E+08
731	8,162499E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163653E+06	3,756620E+08	1,004214E+09	1,371824E+09	1,371830E+09	1,004223E+09	3,756627E+08
732	8,163210E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162322E+06	3,757011E+08	1,004261E+09	1,371863E+09	1,371836E+09	1,004192E+09	3,756214E+08
733	8,158162E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158758E+06	3,756205E+08	1,004205E+09	1,371860E+09	1,371887E+09	1,004281E+09	3,757158E+08
734	8,162952E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165263E+06	3,757113E+08	1,004288E+09	1,371907E+09	1,371896E+09	1,004248E+09	3,756515E+08
735	8,161699E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158301E+06	3,756915E+08	1,004308E+09	1,371963E+09	1,371957E+09	1,004294E+09	3,756807E+08
736	8,158882E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159818E+06	3,756483E+08	1,004278E+09	1,371960E+09	1,371991E+09	1,004357E+09	3,757421E+08
737	8,163772E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163518E+06	3,757511E+08	1,004376E+09	1,372023E+09	1,372002E+09	1,004314E+09	3,756598E+08
738	8,159483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,156927E+06	3,756909E+08	1,004352E+09	1,372043E+09	1,372058E+09	1,004390E+09	3,757329E+08
739	8,158350E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162763E+06	3,757071E+08	1,004371E+09	1,372040E+09	1,372040E+09	1,004378E+09	3,757309E+08
740	8,163324E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160498E+06	3,757607E+08	1,004422E+09	1,372081E+09	1,372043E+09	1,004331E+09	3,756634E+08
741	8,157104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157646E+06	3,756618E+08	1,004323E+09	1,372029E+09	1,372058E+09	1,004397E+09	3,757519E+08
742	8,161207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163693E+06	3,757187E+08	1,004336E+09	1,371989E+09	1,371994E+09	1,004331E+09	3,756909E+08
743	8,163072E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159071E+06	3,757145E+08	1,004328E+09	1,371968E+09	1,371952E+09	1,004283E+09	3,756640E+08
744	8,157186E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159825E+06	3,756295E+08	1,004228E+09	1,371880E+09	1,371902E+09	1,004291E+09	3,757223E+08



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	8,164807E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163669E+06	3,757080E+08	1,004269E+09	1,371866E+09	1,371833E+09	1,004189E+09	3,756212E+08
746	8,160724E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159247E+06	3,756453E+08	1,004204E+09	1,371827E+09	1,371821E+09	1,004197E+09	3,756554E+08
747	8,160268E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161826E+06	3,756115E+08	1,004147E+09	1,371756E+09	1,371767E+09	1,004181E+09	3,756695E+08
748	8,165825E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164335E+06	3,756810E+08	1,004183E+09	1,371756E+09	1,371728E+09	1,004104E+09	3,755788E+08
749	8,159192E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159728E+06	3,755934E+08	1,004098E+09	1,371709E+09	1,371737E+09	1,004164E+09	3,756618E+08
750	8,162658E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164888E+06	3,756339E+08	1,004125E+09	1,371702E+09	1,371710E+09	1,004134E+09	3,756323E+08
751	8,164052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162732E+06	3,756687E+08	1,004177E+09	1,371753E+09	1,371724E+09	1,004109E+09	3,755942E+08
752	8,159364E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158718E+06	3,755824E+08	1,004114E+09	1,371740E+09	1,371769E+09	1,004194E+09	3,756873E+08
753	8,164130E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165278E+06	3,756725E+08	1,004198E+09	1,371790E+09	1,371778E+09	1,004164E+09	3,756231E+08
754	8,162581E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159147E+06	3,756606E+08	1,004215E+09	1,371840E+09	1,371839E+09	1,004211E+09	3,756502E+08
755	8,159423E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161178E+06	3,756278E+08	1,004205E+09	1,371841E+09	1,371865E+09	1,004263E+09	3,757036E+08
756	8,163593E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164739E+06	3,757274E+08	1,004300E+09	1,371908E+09	1,371878E+09	1,004221E+09	3,756231E+08
757	8,159643E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157718E+06	3,756598E+08	1,004266E+09	1,371923E+09	1,371933E+09	1,004295E+09	3,756997E+08
758	8,159048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163155E+06	3,756665E+08	1,004268E+09	1,371918E+09	1,371929E+09	1,004295E+09	3,757037E+08
759	8,164868E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160703E+06	3,757175E+08	1,004312E+09	1,371943E+09	1,371917E+09	1,004244E+09	3,756353E+08
760	8,158489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158158E+06	3,756205E+08	1,004207E+09	1,371868E+09	1,371902E+09	1,004290E+09	3,757165E+08
761	8,162376E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164165E+06	3,756804E+08	1,004232E+09	1,371835E+09	1,371832E+09	1,004217E+09	3,756530E+08
762	8,163774E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160256E+06	3,756799E+08	1,004227E+09	1,371824E+09	1,371799E+09	1,004169E+09	3,756236E+08
763	8,158138E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160860E+06	3,755973E+08	1,004136E+09	1,371746E+09	1,371757E+09	1,004175E+09	3,756757E+08
764	8,165150E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164892E+06	3,756710E+08	1,004166E+09	1,371729E+09	1,371696E+09	1,004084E+09	3,755788E+08
765	8,161186E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160443E+06	3,756058E+08	1,004091E+09	1,371677E+09	1,371677E+09	1,004094E+09	3,756159E+08
766	8,160883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162989E+06	3,755733E+08	1,004032E+09	1,371609E+09	1,371636E+09	1,004089E+09	3,756361E+08
767	8,166558E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165357E+06	3,756468E+08	1,004081E+09	1,371611E+09	1,371586E+09	1,004007E+09	3,755470E+08
768	8,160125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160067E+06	3,755567E+08	1,003999E+09	1,371564E+09	1,371585E+09	1,004055E+09	3,756277E+08
769	8,163758E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164874E+06	3,755940E+08	1,004033E+09	1,371576E+09	1,371574E+09	1,004034E+09	3,756013E+08
770	8,165190E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163199E+06	3,756313E+08	1,004082E+09	1,371632E+09	1,371606E+09	1,004020E+09	3,755642E+08
771	8,160666E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159539E+06	3,755539E+08	1,004031E+09	1,371624E+09	1,371652E+09	1,004104E+09	3,756500E+08
772	8,164263E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166699E+06	3,756489E+08	1,004118E+09	1,371676E+09	1,371664E+09	1,004081E+09	3,755890E+08
773	8,162711E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160332E+06	3,756375E+08	1,004139E+09	1,371725E+09	1,371719E+09	1,004123E+09	3,756171E+08
774	8,159535E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162020E+06	3,755991E+08	1,004125E+09	1,371740E+09	1,371766E+09	1,004187E+09	3,756781E+08
775	8,164571E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164858E+06	3,756916E+08	1,004215E+09	1,371799E+09	1,371773E+09	1,004144E+09	3,755988E+08
776	8,160969E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,157633E+06	3,756160E+08	1,004160E+09	1,371787E+09	1,371802E+09	1,004203E+09	3,756710E+08
777	8,160483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163179E+06	3,756211E+08	1,004156E+09	1,371771E+09	1,371786E+09	1,004198E+09	3,756727E+08
778	8,165974E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161805E+06	3,756799E+08	1,004198E+09	1,371786E+09	1,371764E+09	1,004137E+09	3,755980E+08
779	8,159232E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,159714E+06	3,755946E+08	1,004115E+09	1,371718E+09	1,371739E+09	1,004166E+09	3,756663E+08
780	8,162241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165630E+06	3,756513E+08	1,004141E+09	1,371698E+09	1,371678E+09	1,004097E+09	3,756059E+08

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	8,163897E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161485E+06	3,756448E+08	1,004128E+09	1,371687E+09	1,371654E+09	1,004055E+09	3,755804E+08
782	8,158837E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161681E+06	3,755555E+08	1,004025E+09	1,371614E+09	1,371635E+09	1,004081E+09	3,756424E+08
783	8,166485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165635E+06	3,756281E+08	1,004052E+09	1,371584E+09	1,371564E+09	1,003993E+09	3,755487E+08
784	8,162485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161140E+06	3,755644E+08	1,003973E+09	1,371516E+09	1,371522E+09	1,003988E+09	3,755823E+08
785	8,162153E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163400E+06	3,755338E+08	1,003927E+09	1,371460E+09	1,371480E+09	1,003982E+09	3,756027E+08
786	8,167373E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166182E+06	3,756099E+08	1,003982E+09	1,371476E+09	1,371446E+09	1,003904E+09	3,755129E+08
787	8,161288E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160711E+06	3,755268E+08	1,003915E+09	1,371442E+09	1,371453E+09	1,003950E+09	3,755854E+08
788	8,164052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165745E+06	3,755607E+08	1,003945E+09	1,371459E+09	1,371455E+09	1,003941E+09	3,755652E+08
789	8,165703E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164201E+06	3,755999E+08	1,003989E+09	1,371510E+09	1,371488E+09	1,003934E+09	3,755310E+08
790	8,161171E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160713E+06	3,755254E+08	1,003941E+09	1,371510E+09	1,371550E+09	1,004029E+09	3,756223E+08
791	8,164801E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167518E+06	3,756213E+08	1,004038E+09	1,371562E+09	1,371552E+09	1,004004E+09	3,755642E+08
792	8,163621E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160425E+06	3,756027E+08	1,004052E+09	1,371605E+09	1,371593E+09	1,004033E+09	3,755893E+08
793	8,160637E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161753E+06	3,755574E+08	1,004032E+09	1,371619E+09	1,371641E+09	1,004098E+09	3,756514E+08
794	8,165834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165152E+06	3,756498E+08	1,004110E+09	1,371669E+09	1,371649E+09	1,004054E+09	3,755689E+08
795	8,162242E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,158814E+06	3,755869E+08	1,004064E+09	1,371647E+09	1,371661E+09	1,004097E+09	3,756274E+08
796	8,160565E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164885E+06	3,755960E+08	1,004064E+09	1,371632E+09	1,371641E+09	1,004090E+09	3,756298E+08
797	8,166038E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163550E+06	3,756554E+08	1,004110E+09	1,371651E+09	1,371617E+09	1,004025E+09	3,755555E+08
798	8,159386E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160933E+06	3,755626E+08	1,004025E+09	1,371603E+09	1,371619E+09	1,004068E+09	3,756298E+08
799	8,163144E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166008E+06	3,756116E+08	1,004044E+09	1,371575E+09	1,371556E+09	1,004005E+09	3,755749E+08
800	8,165221E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161570E+06	3,755947E+08	1,004010E+09	1,371538E+09	1,371512E+09	1,003954E+09	3,755478E+08
801	8,160492E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161762E+06	3,755055E+08	1,003900E+09	1,371452E+09	1,371482E+09	1,003980E+09	3,756107E+08
802	8,167787E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166659E+06	3,755849E+08	1,003927E+09	1,371415E+09	1,371404E+09	1,003885E+09	3,755130E+08
803	8,163591E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162457E+06	3,755334E+08	1,003869E+09	1,371355E+09	1,371352E+09	1,003863E+09	3,755350E+08
804	8,162497E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164522E+06	3,755004E+08	1,003830E+09	1,371319E+09	1,371327E+09	1,003864E+09	3,755591E+08
805	8,167787E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167166E+06	3,755735E+08	1,003883E+09	1,371343E+09	1,371307E+09	1,003796E+09	3,754733E+08
806	8,162089E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161408E+06	3,754900E+08	1,003818E+09	1,371328E+09	1,371347E+09	1,003866E+09	3,755537E+08
807	8,164987E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166613E+06	3,755293E+08	1,003856E+09	1,371342E+09	1,371347E+09	1,003866E+09	3,755386E+08
808	8,166575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164748E+06	3,755687E+08	1,003900E+09	1,371384E+09	1,371365E+09	1,003849E+09	3,755033E+08
809	8,162139E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161140E+06	3,754957E+08	1,003862E+09	1,371395E+09	1,371428E+09	1,003946E+09	3,755965E+08
810	8,165531E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168097E+06	3,755880E+08	1,003952E+09	1,371451E+09	1,371440E+09	1,003920E+09	3,755372E+08
811	8,164753E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161054E+06	3,755738E+08	1,003969E+09	1,371488E+09	1,371473E+09	1,003938E+09	3,755509E+08
812	8,160886E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162704E+06	3,755247E+08	1,003939E+09	1,371496E+09	1,371519E+09	1,004004E+09	3,756145E+08
813	8,166223E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166369E+06	3,756181E+08	1,004010E+09	1,371532E+09	1,371516E+09	1,003957E+09	3,755312E+08
814	8,162482E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160309E+06	3,755597E+08	1,003972E+09	1,371521E+09	1,371537E+09	1,004003E+09	3,755914E+08
815	8,161044E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165868E+06	3,755679E+08	1,003979E+09	1,371507E+09	1,371509E+09	1,003992E+09	3,755961E+08
816	8,166930E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163753E+06	3,756151E+08	1,004011E+09	1,371517E+09	1,371476E+09	1,003919E+09	3,755221E+08

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												
817	8,160848E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160798E+06	3,755151E+08	1,003915E+09	1,371464E+09	1,371480E+09	1,003969E+09	3,755991E+08
818	8,164860E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166241E+06	3,755609E+08	1,003921E+09	1,371423E+09	1,371418E+09	1,003907E+09	3,755434E+08
819	8,166863E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162837E+06	3,755569E+08	1,003892E+09	1,371374E+09	1,371353E+09	1,003839E+09	3,755031E+08
820	8,161023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163266E+06	3,754720E+08	1,003789E+09	1,371290E+09	1,371318E+09	1,003862E+09	3,755660E+08
821	8,168089E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168223E+06	3,755523E+08	1,003823E+09	1,371264E+09	1,371244E+09	1,003766E+09	3,754690E+08
822	8,163929E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163684E+06	3,755002E+08	1,003773E+09	1,371230E+09	1,371224E+09	1,003759E+09	3,754956E+08
823	8,163288E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165075E+06	3,754648E+08	1,003737E+09	1,371197E+09	1,371206E+09	1,003772E+09	3,755261E+08
824	8,168747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167359E+06	3,755311E+08	1,003779E+09	1,371210E+09	1,371181E+09	1,003706E+09	3,754439E+08
825	8,163508E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161669E+06	3,754519E+08	1,003717E+09	1,371194E+09	1,371220E+09	1,003783E+09	3,755261E+08
826	8,165877E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167555E+06	3,754974E+08	1,003762E+09	1,371212E+09	1,371222E+09	1,003781E+09	3,755102E+08
827	8,167418E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165809E+06	3,755455E+08	1,003821E+09	1,371260E+09	1,371232E+09	1,003749E+09	3,754640E+08
828	8,162284E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162050E+06	3,754680E+08	1,003781E+09	1,371283E+09	1,371307E+09	1,003850E+09	3,755598E+08
829	8,165826E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168808E+06	3,755539E+08	1,003861E+09	1,371333E+09	1,371323E+09	1,003830E+09	3,755033E+08
830	8,165433E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161858E+06	3,755402E+08	1,003877E+09	1,371379E+09	1,371371E+09	1,003859E+09	3,755205E+08
831	8,161637E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163707E+06	3,754965E+08	1,003852E+09	1,371375E+09	1,371403E+09	1,003923E+09	3,755854E+08
832	8,167007E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166889E+06	3,755858E+08	1,003918E+09	1,371399E+09	1,371381E+09	1,003863E+09	3,755016E+08
833	8,163555E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,160713E+06	3,755263E+08	1,003884E+09	1,371394E+09	1,371403E+09	1,003909E+09	3,755609E+08
834	8,162180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166195E+06	3,755280E+08	1,003881E+09	1,371380E+09	1,371383E+09	1,003897E+09	3,755641E+08
835	8,168300E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164337E+06	3,755759E+08	1,003905E+09	1,371374E+09	1,371335E+09	1,003811E+09	3,754800E+08
836	8,161616E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161797E+06	3,754733E+08	1,003798E+09	1,371311E+09	1,371334E+09	1,003860E+09	3,755574E+08
837	8,165627E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167635E+06	3,755204E+08	1,003795E+09	1,371254E+09	1,371257E+09	1,003793E+09	3,754999E+08
838	8,167188E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164691E+06	3,755234E+08	1,003781E+09	1,371220E+09	1,371200E+09	1,003727E+09	3,754610E+08
839	8,161550E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164489E+06	3,754417E+08	1,003692E+09	1,371144E+09	1,371164E+09	1,003749E+09	3,755260E+08
840	8,168759E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168486E+06	3,755092E+08	1,003716E+09	1,371118E+09	1,371092E+09	1,003653E+09	3,754324E+08
841	8,165257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163708E+06	3,754568E+08	1,003668E+09	1,371091E+09	1,371085E+09	1,003661E+09	3,754632E+08
842	8,164816E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165460E+06	3,754224E+08	1,003630E+09	1,371062E+09	1,371081E+09	1,003682E+09	3,754951E+08
843	8,169953E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168588E+06	3,755021E+08	1,003683E+09	1,371072E+09	1,371046E+09	1,003608E+09	3,754058E+08
844	8,163993E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163028E+06	3,754274E+08	1,003634E+09	1,371071E+09	1,371093E+09	1,003688E+09	3,754892E+08
845	8,165977E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168758E+06	3,754704E+08	1,003681E+09	1,371098E+09	1,371102E+09	1,003690E+09	3,754760E+08
846	8,167660E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166570E+06	3,755157E+08	1,003744E+09	1,371166E+09	1,371136E+09	1,003672E+09	3,754339E+08
847	8,162916E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162466E+06	3,754370E+08	1,003700E+09	1,371177E+09	1,371205E+09	1,003776E+09	3,755331E+08
848	8,166603E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168685E+06	3,755124E+08	1,003761E+09	1,371206E+09	1,371205E+09	1,003750E+09	3,754783E+08
849	8,166743E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162221E+06	3,755059E+08	1,003779E+09	1,371242E+09	1,371242E+09	1,003776E+09	3,754938E+08
850	8,162649E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164523E+06	3,754649E+08	1,003759E+09	1,371242E+09	1,371270E+09	1,003830E+09	3,755545E+08
851	8,167988E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167807E+06	3,755583E+08	1,003832E+09	1,371266E+09	1,371236E+09	1,003753E+09	3,754611E+08
852	8,164094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,161566E+06	3,754916E+08	1,003790E+09	1,371266E+09	1,371266E+09	1,003799E+09	3,755190E+08

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	8,162803E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166908E+06	3,754867E+08	1,003772E+09	1,371240E+09	1,371246E+09	1,003794E+09	3,755242E+08
854	8,168964E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165597E+06	3,755372E+08	1,003796E+09	1,371238E+09	1,371206E+09	1,003715E+09	3,754417E+08
855	8,162248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163302E+06	3,754428E+08	1,003693E+09	1,371160E+09	1,371188E+09	1,003758E+09	3,755203E+08
856	8,166339E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168366E+06	3,754819E+08	1,003685E+09	1,371096E+09	1,371098E+09	1,003682E+09	3,754643E+08
857	8,168203E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165405E+06	3,754853E+08	1,003676E+09	1,371070E+09	1,371045E+09	1,003619E+09	3,754261E+08
858	8,162904E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164719E+06	3,753989E+08	1,003586E+09	1,371005E+09	1,371022E+09	1,003642E+09	3,754898E+08
859	8,170055E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169022E+06	3,754685E+08	1,003610E+09	1,370972E+09	1,370946E+09	1,003542E+09	3,753913E+08
860	8,166140E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164557E+06	3,754179E+08	1,003561E+09	1,370951E+09	1,370947E+09	1,003557E+09	3,754225E+08
861	8,165427E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166753E+06	3,753892E+08	1,003525E+09	1,370919E+09	1,370944E+09	1,003584E+09	3,754565E+08
862	8,170063E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170153E+06	3,754753E+08	1,003597E+09	1,370954E+09	1,370924E+09	1,003519E+09	3,753717E+08
863	8,164437E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164038E+06	3,754030E+08	1,003558E+09	1,370959E+09	1,370975E+09	1,003601E+09	3,754585E+08
864	8,166506E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168576E+06	3,754292E+08	1,003588E+09	1,370979E+09	1,370984E+09	1,003604E+09	3,754498E+08
865	8,168954E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166365E+06	3,754749E+08	1,003646E+09	1,371041E+09	1,371021E+09	1,003596E+09	3,754107E+08
866	8,164381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162784E+06	3,754000E+08	1,003603E+09	1,371050E+09	1,371088E+09	1,003696E+09	3,755061E+08
867	8,167597E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169679E+06	3,754855E+08	1,003670E+09	1,371069E+09	1,371068E+09	1,003653E+09	3,754428E+08
868	8,167274E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163538E+06	3,754836E+08	1,003701E+09	1,371120E+09	1,371108E+09	1,003674E+09	3,754547E+08
869	8,162843E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165858E+06	3,754385E+08	1,003677E+09	1,371125E+09	1,371143E+09	1,003730E+09	3,755146E+08
870	8,168121E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168743E+06	3,755268E+08	1,003750E+09	1,371162E+09	1,371126E+09	1,003664E+09	3,754256E+08
871	8,164671E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,162473E+06	3,754584E+08	1,003698E+09	1,371145E+09	1,371148E+09	1,003711E+09	3,754856E+08
872	8,163580E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166963E+06	3,754391E+08	1,003654E+09	1,371090E+09	1,371107E+09	1,003698E+09	3,754931E+08
873	8,170145E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166353E+06	3,754964E+08	1,003678E+09	1,371072E+09	1,371051E+09	1,003616E+09	3,754101E+08
874	8,163473E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164154E+06	3,754050E+08	1,003582E+09	1,370999E+09	1,371025E+09	1,003645E+09	3,754833E+08
875	8,167555E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169100E+06	3,754438E+08	1,003577E+09	1,370936E+09	1,370926E+09	1,003554E+09	3,754199E+08
876	8,169059E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166185E+06	3,754442E+08	1,003568E+09	1,370923E+09	1,370889E+09	1,003495E+09	3,753809E+08
877	8,163891E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165428E+06	3,753560E+08	1,003473E+09	1,370859E+09	1,370880E+09	1,003533E+09	3,754462E+08
878	8,170570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170331E+06	3,754323E+08	1,003509E+09	1,370843E+09	1,370819E+09	1,003448E+09	3,753545E+08
879	8,166713E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166077E+06	3,753927E+08	1,003473E+09	1,370822E+09	1,370820E+09	1,003467E+09	3,753883E+08
880	8,165893E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167293E+06	3,753551E+08	1,003434E+09	1,370791E+09	1,370815E+09	1,003494E+09	3,754274E+08
881	8,170833E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170687E+06	3,754416E+08	1,003508E+09	1,370831E+09	1,370805E+09	1,003438E+09	3,753468E+08
882	8,165749E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164019E+06	3,753649E+08	1,003465E+09	1,370841E+09	1,370861E+09	1,003519E+09	3,754322E+08
883	8,167681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168820E+06	3,753907E+08	1,003489E+09	1,370847E+09	1,370856E+09	1,003512E+09	3,754181E+08
884	8,169883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167126E+06	3,754408E+08	1,003549E+09	1,370910E+09	1,370891E+09	1,003500E+09	3,753749E+08
885	8,164815E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164171E+06	3,753740E+08	1,003513E+09	1,370919E+09	1,370956E+09	1,003600E+09	3,754672E+08
886	8,167415E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171196E+06	3,754651E+08	1,003601E+09	1,370964E+09	1,370948E+09	1,003561E+09	3,754074E+08
887	8,167509E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164673E+06	3,754620E+08	1,003633E+09	1,371017E+09	1,370993E+09	1,003583E+09	3,754204E+08
888	8,163298E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165744E+06	3,753973E+08	1,003584E+09	1,371007E+09	1,371026E+09	1,003642E+09	3,754857E+08



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	8,169411E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168761E+06	3,754824E+08	1,003641E+09	1,371025E+09	1,371004E+09	1,003583E+09	3,754007E+08
890	8,166320E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,163003E+06	3,754158E+08	1,003585E+09	1,370997E+09	1,371011E+09	1,003619E+09	3,754555E+08
891	8,164916E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167819E+06	3,754013E+08	1,003540E+09	1,370924E+09	1,370942E+09	1,003585E+09	3,754549E+08
892	8,171053E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167597E+06	3,754613E+08	1,003573E+09	1,370918E+09	1,370887E+09	1,003493E+09	3,753662E+08
893	8,164083E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165329E+06	3,753689E+08	1,003478E+09	1,370853E+09	1,370869E+09	1,003524E+09	3,754356E+08
894	8,167908E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170046E+06	3,754061E+08	1,003480E+09	1,370808E+09	1,370789E+09	1,003445E+09	3,753773E+08
895	8,169604E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167365E+06	3,754088E+08	1,003468E+09	1,370789E+09	1,370755E+09	1,003394E+09	3,753411E+08
896	8,164650E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165871E+06	3,753121E+08	1,003357E+09	1,370709E+09	1,370739E+09	1,003435E+09	3,754115E+08
897	8,171366E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171425E+06	3,753967E+08	1,003400E+09	1,370690E+09	1,370679E+09	1,003359E+09	3,753267E+08
898	8,167953E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166862E+06	3,753589E+08	1,003377E+09	1,370685E+09	1,370682E+09	1,003371E+09	3,753579E+08
899	8,167006E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167676E+06	3,753169E+08	1,003335E+09	1,370653E+09	1,370670E+09	1,003388E+09	3,753924E+08
900	8,171732E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171080E+06	3,754017E+08	1,003410E+09	1,370703E+09	1,370674E+09	1,003336E+09	3,753106E+08
901	8,166664E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164723E+06	3,753296E+08	1,003367E+09	1,370712E+09	1,370735E+09	1,003424E+09	3,753941E+08
902	8,167876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170147E+06	3,753642E+08	1,003407E+09	1,370736E+09	1,370740E+09	1,003426E+09	3,753849E+08
903	8,170189E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168752E+06	3,754253E+08	1,003482E+09	1,370803E+09	1,370778E+09	1,003416E+09	3,753430E+08
904	8,165104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164763E+06	3,753464E+08	1,003439E+09	1,370813E+09	1,370843E+09	1,003516E+09	3,754383E+08
905	8,168036E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171588E+06	3,754338E+08	1,003521E+09	1,370856E+09	1,370843E+09	1,003487E+09	3,753851E+08
906	8,168983E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164585E+06	3,754223E+08	1,003543E+09	1,370905E+09	1,370885E+09	1,003504E+09	3,753944E+08
907	8,164593E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165786E+06	3,753522E+08	1,003473E+09	1,370865E+09	1,370891E+09	1,003547E+09	3,754536E+08
908	8,170616E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169452E+06	3,754403E+08	1,003526E+09	1,370872E+09	1,370856E+09	1,003476E+09	3,753625E+08
909	8,167003E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164627E+06	3,753829E+08	1,003473E+09	1,370835E+09	1,370850E+09	1,003503E+09	3,754109E+08
910	8,165083E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169376E+06	3,753724E+08	1,003448E+09	1,370786E+09	1,370786E+09	1,003467E+09	3,754112E+08
911	8,171414E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169073E+06	3,754314E+08	1,003481E+09	1,370784E+09	1,370739E+09	1,003376E+09	3,753225E+08
912	8,164662E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165523E+06	3,753232E+08	1,003367E+09	1,370710E+09	1,370726E+09	1,003414E+09	3,753959E+08
913	8,168947E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170574E+06	3,753622E+08	1,003364E+09	1,370658E+09	1,370654E+09	1,003352E+09	3,753462E+08
914	8,171041E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168130E+06	3,753679E+08	1,003356E+09	1,370640E+09	1,370616E+09	1,003297E+09	3,753088E+08
915	8,165976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166727E+06	3,752756E+08	1,003249E+09	1,370555E+09	1,370585E+09	1,003328E+09	3,753761E+08
916	8,172314E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172523E+06	3,753614E+08	1,003302E+09	1,370552E+09	1,370532E+09	1,003248E+09	3,752892E+08
917	8,168745E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167791E+06	3,753240E+08	1,003280E+09	1,370554E+09	1,370547E+09	1,003268E+09	3,753183E+08
918	8,167454E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168422E+06	3,752829E+08	1,003248E+09	1,370540E+09	1,370551E+09	1,003295E+09	3,753571E+08
919	8,172163E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172052E+06	3,753703E+08	1,003321E+09	1,370585E+09	1,370558E+09	1,003249E+09	3,752769E+08
920	8,167212E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165116E+06	3,752951E+08	1,003271E+09	1,370585E+09	1,370614E+09	1,003339E+09	3,753626E+08
921	8,168334E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171211E+06	3,753384E+08	1,003321E+09	1,370610E+09	1,370623E+09	1,003349E+09	3,753609E+08
922	8,171373E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169274E+06	3,753973E+08	1,003406E+09	1,370695E+09	1,370662E+09	1,003332E+09	3,753168E+08
923	8,166265E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,164959E+06	3,753102E+08	1,003350E+09	1,370695E+09	1,370719E+09	1,003421E+09	3,754075E+08
924	8,169193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171742E+06	3,753922E+08	1,003423E+09	1,370734E+09	1,370722E+09	1,003392E+09	3,753520E+08

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	8,170013E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165451E+06	3,753841E+08	1,003436E+09	1,370768E+09	1,370757E+09	1,003409E+09	3,753559E+08
926	8,164868E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167264E+06	3,753230E+08	1,003378E+09	1,370732E+09	1,370755E+09	1,003448E+09	3,754149E+08
927	8,170851E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171289E+06	3,754175E+08	1,003439E+09	1,370737E+09	1,370714E+09	1,003371E+09	3,753221E+08
928	8,167187E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165667E+06	3,753503E+08	1,003378E+09	1,370699E+09	1,370704E+09	1,003392E+09	3,753704E+08
929	8,165693E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170075E+06	3,753359E+08	1,003346E+09	1,370648E+09	1,370652E+09	1,003368E+09	3,753792E+08
930	8,172949E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169318E+06	3,753868E+08	1,003374E+09	1,370647E+09	1,370604E+09	1,003277E+09	3,752897E+08
931	8,166196E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165710E+06	3,752733E+08	1,003243E+09	1,370550E+09	1,370573E+09	1,003305E+09	3,753583E+08
932	8,170281E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171328E+06	3,753178E+08	1,003242E+09	1,370496E+09	1,370497E+09	1,003239E+09	3,753068E+08
933	8,171827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169721E+06	3,753336E+08	1,003245E+09	1,370482E+09	1,370459E+09	1,003185E+09	3,752656E+08
934	8,166388E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168039E+06	3,752459E+08	1,003159E+09	1,370422E+09	1,370438E+09	1,003217E+09	3,753352E+08
935	8,172679E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173713E+06	3,753294E+08	1,003212E+09	1,370428E+09	1,370400E+09	1,003145E+09	3,752509E+08
936	8,169440E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167882E+06	3,752812E+08	1,003174E+09	1,370422E+09	1,370420E+09	1,003173E+09	3,752839E+08
937	8,168347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169037E+06	3,752464E+08	1,003144E+09	1,370406E+09	1,370435E+09	1,003218E+09	3,753320E+08
938	8,173466E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172710E+06	3,753390E+08	1,003231E+09	1,370460E+09	1,370440E+09	1,003169E+09	3,752514E+08
939	8,168356E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165754E+06	3,752667E+08	1,003187E+09	1,370461E+09	1,370486E+09	1,003247E+09	3,753317E+08
940	8,169104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172010E+06	3,753103E+08	1,003245E+09	1,370503E+09	1,370505E+09	1,003256E+09	3,753284E+08
941	8,172026E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169998E+06	3,753674E+08	1,003324E+09	1,370587E+09	1,370553E+09	1,003245E+09	3,752811E+08
942	8,166610E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165812E+06	3,752805E+08	1,003272E+09	1,370590E+09	1,370610E+09	1,003336E+09	3,753729E+08
943	8,169492E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172871E+06	3,753609E+08	1,003331E+09	1,370613E+09	1,370604E+09	1,003305E+09	3,753167E+08
944	8,170348E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166326E+06	3,753491E+08	1,003330E+09	1,370625E+09	1,370621E+09	1,003314E+09	3,753204E+08
945	8,165208E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168587E+06	3,752949E+08	1,003278E+09	1,370585E+09	1,370616E+09	1,003355E+09	3,753852E+08
946	8,172110E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171787E+06	3,753813E+08	1,003343E+09	1,370601E+09	1,370570E+09	1,003266E+09	3,752896E+08
947	8,168520E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,165778E+06	3,753050E+08	1,003267E+09	1,370551E+09	1,370552E+09	1,003276E+09	3,753319E+08
948	8,167281E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170186E+06	3,752873E+08	1,003229E+09	1,370498E+09	1,370503E+09	1,003252E+09	3,753381E+08
949	8,174073E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170332E+06	3,753431E+08	1,003253E+09	1,370489E+09	1,370455E+09	1,003167E+09	3,752470E+08
950	8,166870E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167284E+06	3,752423E+08	1,003142E+09	1,370404E+09	1,370422E+09	1,003195E+09	3,753163E+08
951	8,170731E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173098E+06	3,752898E+08	1,003148E+09	1,370357E+09	1,370351E+09	1,003130E+09	3,752659E+08
952	8,172190E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170700E+06	3,752967E+08	1,003143E+09	1,370343E+09	1,370317E+09	1,003079E+09	3,752270E+08
953	8,167099E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168728E+06	3,752091E+08	1,003053E+09	1,370285E+09	1,370313E+09	1,003128E+09	3,753057E+08
954	8,174064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173788E+06	3,752854E+08	1,003107E+09	1,370295E+09	1,370275E+09	1,003056E+09	3,752217E+08
955	8,170786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168059E+06	3,752379E+08	1,003061E+09	1,370274E+09	1,370280E+09	1,003075E+09	3,752501E+08
956	8,169425E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169898E+06	3,752136E+08	1,003046E+09	1,370267E+09	1,370296E+09	1,003116E+09	3,752959E+08
957	8,173844E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174143E+06	3,753155E+08	1,003148E+09	1,370335E+09	1,370309E+09	1,003074E+09	3,752150E+08
958	8,168662E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167024E+06	3,752474E+08	1,003125E+09	1,370362E+09	1,370369E+09	1,003153E+09	3,752948E+08
959	8,169172E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173052E+06	3,752845E+08	1,003174E+09	1,370406E+09	1,370402E+09	1,003171E+09	3,752939E+08
960	8,172428E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170161E+06	3,753295E+08	1,003230E+09	1,370472E+09	1,370447E+09	1,003165E+09	3,752492E+08

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	8,167155E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166629E+06	3,752475E+08	1,003169E+09	1,370460E+09	1,370500E+09	1,003264E+09	3,753494E+08
962	8,170784E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173325E+06	3,753264E+08	1,003236E+09	1,370481E+09	1,370479E+09	1,003222E+09	3,752915E+08
963	8,171595E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166890E+06	3,753134E+08	1,003230E+09	1,370480E+09	1,370472E+09	1,003210E+09	3,752874E+08
964	8,166432E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169105E+06	3,752581E+08	1,003182E+09	1,370450E+09	1,370470E+09	1,003241E+09	3,753469E+08
965	8,173080E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172430E+06	3,753423E+08	1,003239E+09	1,370462E+09	1,370431E+09	1,003159E+09	3,752491E+08
966	8,169257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,166680E+06	3,752681E+08	1,003169E+09	1,370416E+09	1,370411E+09	1,003168E+09	3,752881E+08
967	8,167847E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171427E+06	3,752508E+08	1,003121E+09	1,370354E+09	1,370362E+09	1,003146E+09	3,752943E+08
968	8,174337E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171596E+06	3,753047E+08	1,003136E+09	1,370328E+09	1,370302E+09	1,003060E+09	3,752056E+08
969	8,167281E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168851E+06	3,752116E+08	1,003033E+09	1,370249E+09	1,370275E+09	1,003095E+09	3,752836E+08
970	8,172098E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173563E+06	3,752492E+08	1,003045E+09	1,370216E+09	1,370207E+09	1,003026E+09	3,752335E+08
971	8,173519E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170852E+06	3,752484E+08	1,003025E+09	1,370189E+09	1,370166E+09	1,002969E+09	3,751913E+08
972	8,168674E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168864E+06	3,751641E+08	1,002939E+09	1,370136E+09	1,370166E+09	1,003019E+09	3,752672E+08
973	8,174857E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174796E+06	3,752488E+08	1,002999E+09	1,370149E+09	1,370136E+09	1,002957E+09	3,751835E+08
974	8,171239E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169632E+06	3,752185E+08	1,002986E+09	1,370153E+09	1,370148E+09	1,002975E+09	3,752102E+08
975	8,169466E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171655E+06	3,751968E+08	1,002982E+09	1,370165E+09	1,370180E+09	1,003024E+09	3,752585E+08
976	8,173773E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174888E+06	3,752876E+08	1,003073E+09	1,370234E+09	1,370204E+09	1,002993E+09	3,751842E+08
977	8,169249E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167585E+06	3,752176E+08	1,003041E+09	1,370259E+09	1,370279E+09	1,003089E+09	3,752737E+08
978	8,170463E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172696E+06	3,752417E+08	1,003080E+09	1,370294E+09	1,370301E+09	1,003102E+09	3,752726E+08
979	8,173794E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169963E+06	3,752837E+08	1,003117E+09	1,370328E+09	1,370316E+09	1,003078E+09	3,752217E+08
980	8,168374E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167321E+06	3,752132E+08	1,003066E+09	1,370311E+09	1,370353E+09	1,003161E+09	3,753146E+08
981	8,171381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174344E+06	3,752953E+08	1,003139E+09	1,370338E+09	1,370331E+09	1,003115E+09	3,752538E+08
982	8,172196E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168157E+06	3,752881E+08	1,003151E+09	1,370354E+09	1,370327E+09	1,003095E+09	3,752439E+08
983	8,166888E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170221E+06	3,752255E+08	1,003091E+09	1,370325E+09	1,370337E+09	1,003132E+09	3,753018E+08
984	8,173466E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173055E+06	3,753003E+08	1,003128E+09	1,370319E+09	1,370295E+09	1,003058E+09	3,752089E+08
985	8,169752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168102E+06	3,752335E+08	1,003055E+09	1,370267E+09	1,370279E+09	1,003076E+09	3,752552E+08
986	8,169062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172179E+06	3,752139E+08	1,003016E+09	1,370208E+09	1,370219E+09	1,003049E+09	3,752620E+08
987	8,175348E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172404E+06	3,752635E+08	1,003024E+09	1,370172E+09	1,370143E+09	1,002948E+09	3,751701E+08
988	8,168620E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169464E+06	3,751718E+08	1,002926E+09	1,370100E+09	1,370119E+09	1,002978E+09	3,752445E+08
989	8,173127E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174103E+06	3,752055E+08	1,002932E+09	1,370067E+09	1,370061E+09	1,002919E+09	3,751944E+08
990	8,174331E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171875E+06	3,752126E+08	1,002925E+09	1,370048E+09	1,370019E+09	1,002859E+09	3,751482E+08
991	8,169177E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170163E+06	3,751331E+08	1,002842E+09	1,370000E+09	1,370030E+09	1,002915E+09	3,752237E+08
992	8,174729E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176047E+06	3,752195E+08	1,002905E+09	1,370013E+09	1,370002E+09	1,002861E+09	3,751473E+08
993	8,171499E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170888E+06	3,751951E+08	1,002905E+09	1,370037E+09	1,370034E+09	1,002894E+09	3,751839E+08
994	8,170687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171700E+06	3,751624E+08	1,002904E+09	1,370065E+09	1,370076E+09	1,002947E+09	3,752349E+08
995	8,175058E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174503E+06	3,752417E+08	1,002971E+09	1,370111E+09	1,370088E+09	1,002910E+09	3,751595E+08
996	8,170916E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,167520E+06	3,751762E+08	1,002939E+09	1,370129E+09	1,370155E+09	1,003002E+09	3,752447E+08

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												
997	8,171277E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173360E+06	3,752055E+08	1,002977E+09	1,370155E+09	1,370173E+09	1,003016E+09	3,752418E+08
998	8,174395E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171383E+06	3,752628E+08	1,003039E+09	1,370199E+09	1,370177E+09	1,002978E+09	3,751833E+08
999	8,168471E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169057E+06	3,751940E+08	1,002994E+09	1,370197E+09	1,370222E+09	1,003057E+09	3,752718E+08
1000	8,171233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175217E+06	3,752652E+08	1,003053E+09	1,370218E+09	1,370204E+09	1,003016E+09	3,752159E+08
1001	8,172607E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169147E+06	3,752562E+08	1,003057E+09	1,370235E+09	1,370215E+09	1,003009E+09	3,752128E+08
1002	8,168142E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170363E+06	3,751824E+08	1,002988E+09	1,370196E+09	1,370214E+09	1,003044E+09	3,752707E+08
1003	8,174594E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173360E+06	3,752525E+08	1,003004E+09	1,370158E+09	1,370144E+09	1,002956E+09	3,751758E+08
1004	8,171009E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169118E+06	3,751957E+08	1,002942E+09	1,370103E+09	1,370113E+09	1,002961E+09	3,752171E+08
1005	8,169944E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173062E+06	3,751744E+08	1,002905E+09	1,370049E+09	1,370057E+09	1,002934E+09	3,752227E+08
1006	8,176186E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173614E+06	3,752286E+08	1,002925E+09	1,370026E+09	1,369984E+09	1,002825E+09	3,751250E+08
1007	8,169376E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170487E+06	3,751338E+08	1,002820E+09	1,369958E+09	1,369971E+09	1,002860E+09	3,751971E+08
1008	8,173576E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174743E+06	3,751615E+08	1,002815E+09	1,369915E+09	1,369915E+09	1,002813E+09	3,751546E+08
1009	8,174862E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173295E+06	3,751809E+08	1,002820E+09	1,369907E+09	1,369891E+09	1,002769E+09	3,751175E+08
1010	8,170478E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170756E+06	3,751013E+08	1,002755E+09	1,369876E+09	1,369904E+09	1,002827E+09	3,751941E+08
1011	8,175574E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176451E+06	3,751820E+08	1,002812E+09	1,369887E+09	1,369873E+09	1,002770E+09	3,751209E+08
1012	8,172999E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171107E+06	3,751603E+08	1,002818E+09	1,369921E+09	1,369914E+09	1,002804E+09	3,751542E+08
1013	8,171626E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171826E+06	3,751220E+08	1,002808E+09	1,369945E+09	1,369964E+09	1,002866E+09	3,752056E+08
1014	8,175816E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175304E+06	3,752097E+08	1,002882E+09	1,369987E+09	1,369965E+09	1,002819E+09	3,751235E+08
1015	8,171247E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,168987E+06	3,751510E+08	1,002850E+09	1,370001E+09	1,370026E+09	1,002906E+09	3,752038E+08
1016	8,170884E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174753E+06	3,751804E+08	1,002889E+09	1,370022E+09	1,370037E+09	1,002920E+09	3,752059E+08
1017	8,174499E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172909E+06	3,752417E+08	1,002961E+09	1,370085E+09	1,370058E+09	1,002888E+09	3,751542E+08
1018	8,169526E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169365E+06	3,751608E+08	1,002915E+09	1,370092E+09	1,370109E+09	1,002968E+09	3,752408E+08
1019	8,172270E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174936E+06	3,752182E+08	1,002947E+09	1,370086E+09	1,370077E+09	1,002923E+09	3,751865E+08
1020	8,174231E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169431E+06	3,752136E+08	1,002949E+09	1,370092E+09	1,370075E+09	1,002910E+09	3,751785E+08
1021	8,169118E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171104E+06	3,751423E+08	1,002876E+09	1,370045E+09	1,370070E+09	1,002945E+09	3,752358E+08
1022	8,175464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174872E+06	3,752236E+08	1,002909E+09	1,370010E+09	1,369986E+09	1,002841E+09	3,751341E+08
1023	8,171533E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170833E+06	3,751658E+08	1,002847E+09	1,369964E+09	1,369962E+09	1,002844E+09	3,751713E+08
1024	8,170344E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173840E+06	3,751338E+08	1,002795E+09	1,369902E+09	1,369910E+09	1,002824E+09	3,751825E+08
1025	8,176844E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174602E+06	3,751868E+08	1,002810E+09	1,369882E+09	1,369850E+09	1,002726E+09	3,750914E+08
1026	8,170876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170613E+06	3,750879E+08	1,002707E+09	1,369813E+09	1,369833E+09	1,002761E+09	3,751612E+08
1027	8,174556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175115E+06	3,751154E+08	1,002693E+09	1,369752E+09	1,369761E+09	1,002707E+09	3,751208E+08
1028	8,176022E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174235E+06	3,751481E+08	1,002721E+09	1,369760E+09	1,369736E+09	1,002661E+09	3,750821E+08
1029	8,171404E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171503E+06	3,750682E+08	1,002664E+09	1,369748E+09	1,369770E+09	1,002729E+09	3,751607E+08
1030	8,176344E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177499E+06	3,751525E+08	1,002730E+09	1,369769E+09	1,369745E+09	1,002670E+09	3,750843E+08
1031	8,173712E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172034E+06	3,751287E+08	1,002730E+09	1,369807E+09	1,369798E+09	1,002712E+09	3,751147E+08
1032	8,171723E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172627E+06	3,750870E+08	1,002708E+09	1,369815E+09	1,369844E+09	1,002781E+09	3,751721E+08



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	8,175916E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176726E+06	3,751845E+08	1,002794E+09	1,369869E+09	1,369855E+09	1,002741E+09	3,750966E+08
1034	8,172110E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169738E+06	3,751268E+08	1,002779E+09	1,369894E+09	1,369912E+09	1,002822E+09	3,751748E+08
1035	8,171445E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175062E+06	3,751462E+08	1,002803E+09	1,369905E+09	1,369914E+09	1,002829E+09	3,751802E+08
1036	8,176002E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173103E+06	3,752077E+08	1,002876E+09	1,369970E+09	1,369935E+09	1,002797E+09	3,751253E+08
1037	8,170736E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,169473E+06	3,751182E+08	1,002816E+09	1,369967E+09	1,369990E+09	1,002880E+09	3,752094E+08
1038	8,173325E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175697E+06	3,751815E+08	1,002845E+09	1,369947E+09	1,369939E+09	1,002821E+09	3,751477E+08
1039	8,174817E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171013E+06	3,751817E+08	1,002844E+09	1,369946E+09	1,369929E+09	1,002800E+09	3,751328E+08
1040	8,169062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172408E+06	3,751080E+08	1,002767E+09	1,369888E+09	1,369912E+09	1,002833E+09	3,751954E+08
1041	8,175944E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176297E+06	3,751890E+08	1,002806E+09	1,369871E+09	1,369844E+09	1,002733E+09	3,750997E+08
1042	8,172931E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171313E+06	3,751228E+08	1,002740E+09	1,369824E+09	1,369818E+09	1,002734E+09	3,751336E+08
1043	8,171651E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173714E+06	3,750799E+08	1,002665E+09	1,369737E+09	1,369753E+09	1,002712E+09	3,751475E+08
1044	8,178480E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175268E+06	3,751431E+08	1,002690E+09	1,369717E+09	1,369688E+09	1,002614E+09	3,750537E+08
1045	8,171941E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171486E+06	3,750502E+08	1,002597E+09	1,369659E+09	1,369682E+09	1,002655E+09	3,751223E+08
1046	8,175216E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176724E+06	3,750907E+08	1,002607E+09	1,369617E+09	1,369612E+09	1,002594E+09	3,750789E+08
1047	8,176382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175820E+06	3,751226E+08	1,002640E+09	1,369645E+09	1,369609E+09	1,002556E+09	3,750387E+08
1048	8,171624E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172309E+06	3,750350E+08	1,002573E+09	1,369630E+09	1,369653E+09	1,002640E+09	3,751261E+08
1049	8,176705E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178454E+06	3,751174E+08	1,002637E+09	1,369659E+09	1,369645E+09	1,002595E+09	3,750588E+08
1050	8,174957E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172257E+06	3,750916E+08	1,002636E+09	1,369688E+09	1,369689E+09	1,002635E+09	3,750864E+08
1051	8,172332E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172925E+06	3,750489E+08	1,002603E+09	1,369675E+09	1,369713E+09	1,002695E+09	3,751464E+08
1052	8,177002E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177325E+06	3,751557E+08	1,002709E+09	1,369739E+09	1,369718E+09	1,002648E+09	3,750684E+08
1053	8,173126E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170117E+06	3,750950E+08	1,002697E+09	1,369781E+09	1,369791E+09	1,002730E+09	3,751438E+08
1054	8,172414E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175811E+06	3,751163E+08	1,002722E+09	1,369791E+09	1,369790E+09	1,002729E+09	3,751432E+08
1055	8,176891E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173929E+06	3,751739E+08	1,002784E+09	1,369850E+09	1,369815E+09	1,002701E+09	3,750846E+08
1056	8,171059E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170506E+06	3,750829E+08	1,002711E+09	1,369828E+09	1,369860E+09	1,002788E+09	3,751729E+08
1057	8,173668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177191E+06	3,751510E+08	1,002747E+09	1,369815E+09	1,369813E+09	1,002730E+09	3,751167E+08
1058	8,175806E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172070E+06	3,751496E+08	1,002752E+09	1,369815E+09	1,369795E+09	1,002702E+09	3,750976E+08
1059	8,169803E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172803E+06	3,750652E+08	1,002654E+09	1,369739E+09	1,369763E+09	1,002725E+09	3,751625E+08
1060	8,177503E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176606E+06	3,751448E+08	1,002693E+09	1,369718E+09	1,369690E+09	1,002624E+09	3,750639E+08
1061	8,174233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171679E+06	3,750750E+08	1,002620E+09	1,369668E+09	1,369667E+09	1,002625E+09	3,750941E+08
1062	8,172819E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174789E+06	3,750419E+08	1,002549E+09	1,369574E+09	1,369589E+09	1,002589E+09	3,751009E+08
1063	8,178919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177077E+06	3,751125E+08	1,002585E+09	1,369563E+09	1,369530E+09	1,002494E+09	3,750049E+08
1064	8,171980E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172954E+06	3,750207E+08	1,002500E+09	1,369515E+09	1,369532E+09	1,002545E+09	3,750807E+08
1065	8,175520E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178067E+06	3,750595E+08	1,002519E+09	1,369504E+09	1,369494E+09	1,002500E+09	3,750473E+08
1066	8,177579E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176132E+06	3,750838E+08	1,002548E+09	1,369533E+09	1,369499E+09	1,002471E+09	3,750077E+08
1067	8,172749E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172048E+06	3,749871E+08	1,002459E+09	1,369493E+09	1,369530E+09	1,002555E+09	3,751003E+08
1068	8,178098E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178775E+06	3,750785E+08	1,002532E+09	1,369518E+09	1,369512E+09	1,002510E+09	3,750322E+08

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	8,176078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172812E+06	3,750593E+08	1,002543E+09	1,369556E+09	1,369560E+09	1,002548E+09	3,750566E+08
1070	8,173077E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174240E+06	3,750279E+08	1,002528E+09	1,369555E+09	1,369580E+09	1,002594E+09	3,751104E+08
1071	8,177473E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178536E+06	3,751326E+08	1,002636E+09	1,369634E+09	1,369602E+09	1,002552E+09	3,750295E+08
1072	8,173416E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170860E+06	3,750644E+08	1,002611E+09	1,369668E+09	1,369679E+09	1,002644E+09	3,751086E+08
1073	8,172767E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176767E+06	3,750827E+08	1,002633E+09	1,369685E+09	1,369689E+09	1,002650E+09	3,751137E+08
1074	8,177857E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174558E+06	3,751388E+08	1,002688E+09	1,369726E+09	1,369699E+09	1,002616E+09	3,750507E+08
1075	8,171437E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171172E+06	3,750450E+08	1,002599E+09	1,369675E+09	1,369714E+09	1,002690E+09	3,751421E+08
1076	8,174798E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177899E+06	3,751165E+08	1,002647E+09	1,369665E+09	1,369657E+09	1,002625E+09	3,750847E+08
1077	8,177006E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172645E+06	3,751082E+08	1,002645E+09	1,369671E+09	1,369647E+09	1,002593E+09	3,750615E+08
1078	8,171114E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173589E+06	3,750264E+08	1,002544E+09	1,369586E+09	1,369606E+09	1,002603E+09	3,751181E+08
1079	8,178539E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177611E+06	3,751035E+08	1,002577E+09	1,369563E+09	1,369536E+09	1,002504E+09	3,750154E+08
1080	8,174554E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172999E+06	3,750380E+08	1,002504E+09	1,369508E+09	1,369511E+09	1,002511E+09	3,750485E+08
1081	8,173160E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176410E+06	3,750121E+08	1,002453E+09	1,369441E+09	1,369452E+09	1,002485E+09	3,750630E+08
1082	8,179652E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178223E+06	3,750814E+08	1,002498E+09	1,369441E+09	1,369402E+09	1,002397E+09	3,749693E+08
1083	8,172813E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173204E+06	3,749792E+08	1,002395E+09	1,369381E+09	1,369402E+09	1,002452E+09	3,750522E+08
1084	8,177094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178108E+06	3,750160E+08	1,002415E+09	1,369367E+09	1,369365E+09	1,002413E+09	3,750208E+08
1085	8,179032E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176166E+06	3,750367E+08	1,002436E+09	1,369394E+09	1,369374E+09	1,002386E+09	3,749782E+08
1086	8,173918E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172982E+06	3,749541E+08	1,002352E+09	1,369343E+09	1,369386E+09	1,002452E+09	3,750618E+08
1087	8,178364E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,180138E+06	3,750517E+08	1,002440E+09	1,369380E+09	1,369371E+09	1,002406E+09	3,749909E+08
1088	8,176087E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174094E+06	3,750369E+08	1,002463E+09	1,369433E+09	1,369427E+09	1,002449E+09	3,750194E+08
1089	8,173269E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175518E+06	3,750036E+08	1,002459E+09	1,369462E+09	1,369476E+09	1,002506E+09	3,750790E+08
1090	8,178310E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178921E+06	3,751011E+08	1,002558E+09	1,369536E+09	1,369505E+09	1,002475E+09	3,749998E+08
1091	8,174263E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,170948E+06	3,750245E+08	1,002510E+09	1,369542E+09	1,369565E+09	1,002565E+09	3,750821E+08
1092	8,173871E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177177E+06	3,750473E+08	1,002535E+09	1,369548E+09	1,369561E+09	1,002568E+09	3,750870E+08
1093	8,178869E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175119E+06	3,751037E+08	1,002592E+09	1,369592E+09	1,369567E+09	1,002526E+09	3,750200E+08
1094	8,172335E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,172441E+06	3,750171E+08	1,002506E+09	1,369535E+09	1,369564E+09	1,002578E+09	3,751028E+08
1095	8,175629E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178782E+06	3,750810E+08	1,002548E+09	1,369529E+09	1,369514E+09	1,002513E+09	3,750415E+08
1096	8,177572E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173586E+06	3,750687E+08	1,002535E+09	1,369523E+09	1,369500E+09	1,002484E+09	3,750197E+08
1097	8,171822E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174627E+06	3,749862E+08	1,002436E+09	1,369448E+09	1,369468E+09	1,002498E+09	3,750776E+08
1098	8,179368E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178566E+06	3,750652E+08	1,002467E+09	1,369415E+09	1,369392E+09	1,002400E+09	3,749745E+08
1099	8,174970E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173800E+06	3,749983E+08	1,002388E+09	1,369346E+09	1,369353E+09	1,002401E+09	3,750121E+08
1100	8,174361E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177030E+06	3,749751E+08	1,002352E+09	1,369293E+09	1,369299E+09	1,002380E+09	3,750299E+08
1101	8,180901E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178651E+06	3,750367E+08	1,002390E+09	1,369304E+09	1,369265E+09	1,002297E+09	3,749367E+08
1102	8,174346E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173894E+06	3,749397E+08	1,002284E+09	1,369233E+09	1,369256E+09	1,002344E+09	3,750139E+08
1103	8,178155E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178937E+06	3,749757E+08	1,002304E+09	1,369220E+09	1,369225E+09	1,002310E+09	3,749797E+08
1104	8,179287E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177502E+06	3,750050E+08	1,002331E+09	1,369245E+09	1,369231E+09	1,002287E+09	3,749394E+08

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	8,174063E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174558E+06	3,749326E+08	1,002277E+09	1,369231E+09	1,369263E+09	1,002358E+09	3,750266E+08
1106	8,178591E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181226E+06	3,750295E+08	1,002373E+09	1,369281E+09	1,369262E+09	1,002320E+09	3,749588E+08
1107	8,176563E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174285E+06	3,750051E+08	1,002382E+09	1,369327E+09	1,369319E+09	1,002368E+09	3,749934E+08
1108	8,174494E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175606E+06	3,749693E+08	1,002377E+09	1,369352E+09	1,369370E+09	1,002435E+09	3,750561E+08
1109	8,179580E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178808E+06	3,750588E+08	1,002460E+09	1,369417E+09	1,369397E+09	1,002402E+09	3,749750E+08
1110	8,175438E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,171910E+06	3,749935E+08	1,002409E+09	1,369399E+09	1,369427E+09	1,002468E+09	3,750468E+08
1111	8,174329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178178E+06	3,750163E+08	1,002439E+09	1,369408E+09	1,369418E+09	1,002464E+09	3,750471E+08
1112	8,179079E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176272E+06	3,750725E+08	1,002497E+09	1,369454E+09	1,369422E+09	1,002419E+09	3,749809E+08
1113	8,172791E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173621E+06	3,749845E+08	1,002417E+09	1,369417E+09	1,369434E+09	1,002472E+09	3,750643E+08
1114	8,176589E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179271E+06	3,750411E+08	1,002446E+09	1,369396E+09	1,369384E+09	1,002413E+09	3,750036E+08
1115	8,178361E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174079E+06	3,750243E+08	1,002415E+09	1,369364E+09	1,369351E+09	1,002380E+09	3,749841E+08
1116	8,173078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175374E+06	3,749487E+08	1,002326E+09	1,369288E+09	1,369314E+09	1,002395E+09	3,750422E+08
1117	8,180352E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179337E+06	3,750260E+08	1,002362E+09	1,369268E+09	1,369245E+09	1,002296E+09	3,749402E+08
1118	8,176064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175115E+06	3,749657E+08	1,002287E+09	1,369200E+09	1,369198E+09	1,002284E+09	3,749706E+08
1119	8,175366E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177695E+06	3,749346E+08	1,002246E+09	1,369152E+09	1,369157E+09	1,002270E+09	3,749878E+08
1120	8,181452E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179637E+06	3,749948E+08	1,002277E+09	1,369156E+09	1,369123E+09	1,002195E+09	3,748985E+08
1121	8,175072E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175032E+06	3,749034E+08	1,002180E+09	1,369099E+09	1,369122E+09	1,002243E+09	3,749755E+08
1122	8,178609E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179999E+06	3,749433E+08	1,002205E+09	1,369081E+09	1,369089E+09	1,002214E+09	3,749430E+08
1123	8,179463E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178314E+06	3,749742E+08	1,002236E+09	1,369105E+09	1,369089E+09	1,002189E+09	3,749086E+08
1124	8,175073E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175005E+06	3,749037E+08	1,002198E+09	1,369112E+09	1,369137E+09	1,002270E+09	3,749990E+08
1125	8,179676E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181181E+06	3,749909E+08	1,002289E+09	1,369177E+09	1,369157E+09	1,002241E+09	3,749347E+08
1126	8,178158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174640E+06	3,749703E+08	1,002289E+09	1,369206E+09	1,369201E+09	1,002279E+09	3,749614E+08
1127	8,175502E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176145E+06	3,749333E+08	1,002281E+09	1,369227E+09	1,369251E+09	1,002346E+09	3,750207E+08
1128	8,179840E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179961E+06	3,750292E+08	1,002366E+09	1,369284E+09	1,369267E+09	1,002313E+09	3,749412E+08
1129	8,175692E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173509E+06	3,749712E+08	1,002335E+09	1,369289E+09	1,369303E+09	1,002374E+09	3,750113E+08
1130	8,174569E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179160E+06	3,749880E+08	1,002358E+09	1,369294E+09	1,369298E+09	1,002372E+09	3,750129E+08
1131	8,179627E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176647E+06	3,750337E+08	1,002395E+09	1,369319E+09	1,369290E+09	1,002323E+09	3,749498E+08
1132	8,174056E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,173986E+06	3,749441E+08	1,002313E+09	1,369275E+09	1,369298E+09	1,002378E+09	3,750316E+08
1133	8,177834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179465E+06	3,749940E+08	1,002330E+09	1,369247E+09	1,369241E+09	1,002313E+09	3,749695E+08
1134	8,179445E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175376E+06	3,749887E+08	1,002299E+09	1,369197E+09	1,369183E+09	1,002259E+09	3,749403E+08
1135	8,173834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176495E+06	3,749141E+08	1,002222E+09	1,369133E+09	1,369151E+09	1,002273E+09	3,749964E+08
1136	8,180697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,180667E+06	3,749892E+08	1,002257E+09	1,369118E+09	1,369088E+09	1,002181E+09	3,748993E+08
1137	8,176834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176344E+06	3,749287E+08	1,002189E+09	1,369073E+09	1,369061E+09	1,002175E+09	3,749305E+08
1138	8,176383E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178320E+06	3,748925E+08	1,002137E+09	1,369014E+09	1,369026E+09	1,002173E+09	3,749502E+08
1139	8,182046E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,180248E+06	3,749508E+08	1,002157E+09	1,368998E+09	1,368977E+09	1,002096E+09	3,748656E+08
1140	8,176207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175744E+06	3,748708E+08	1,002081E+09	1,368951E+09	1,368978E+09	1,002148E+09	3,749440E+08

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	8,179541E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,180484E+06	3,749080E+08	1,002115E+09	1,368956E+09	1,368958E+09	1,002122E+09	3,749153E+08
1142	8,180655E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179183E+06	3,749455E+08	1,002151E+09	1,368984E+09	1,368959E+09	1,002089E+09	3,748751E+08
1143	8,176237E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175372E+06	3,748702E+08	1,002115E+09	1,369003E+09	1,369025E+09	1,002180E+09	3,749639E+08
1144	8,180117E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181951E+06	3,749558E+08	1,002197E+09	1,369060E+09	1,369046E+09	1,002161E+09	3,749039E+08
1145	8,178791E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,175739E+06	3,749414E+08	1,002207E+09	1,369100E+09	1,369092E+09	1,002195E+09	3,749267E+08
1146	8,175536E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177285E+06	3,749068E+08	1,002196E+09	1,369107E+09	1,369134E+09	1,002262E+09	3,749865E+08
1147	8,179763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,180722E+06	3,749988E+08	1,002276E+09	1,369152E+09	1,369133E+09	1,002219E+09	3,749112E+08
1148	8,176543E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174227E+06	3,749415E+08	1,002250E+09	1,369163E+09	1,369173E+09	1,002281E+09	3,749820E+08
1149	8,175747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179159E+06	3,749449E+08	1,002259E+09	1,369169E+09	1,369174E+09	1,002281E+09	3,749854E+08
1150	8,181302E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177312E+06	3,749937E+08	1,002284E+09	1,369170E+09	1,369143E+09	1,002216E+09	3,749124E+08
1151	8,175227E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174719E+06	3,749040E+08	1,002201E+09	1,369123E+09	1,369148E+09	1,002265E+09	3,749871E+08
1152	8,178164E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,180787E+06	3,749598E+08	1,002223E+09	1,369094E+09	1,369087E+09	1,002202E+09	3,749284E+08
1153	8,179848E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177137E+06	3,749606E+08	1,002213E+09	1,369072E+09	1,369039E+09	1,002144E+09	3,748964E+08
1154	8,174264E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177533E+06	3,748799E+08	1,002127E+09	1,369005E+09	1,369017E+09	1,002169E+09	3,749571E+08
1155	8,181372E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181156E+06	3,749442E+08	1,002143E+09	1,368971E+09	1,368947E+09	1,002080E+09	3,748675E+08
1156	8,178356E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176818E+06	3,748836E+08	1,002070E+09	1,368917E+09	1,368919E+09	1,002080E+09	3,748993E+08
1157	8,177942E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178470E+06	3,748430E+08	1,002012E+09	1,368856E+09	1,368880E+09	1,002075E+09	3,749187E+08
1158	8,183218E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181387E+06	3,749139E+08	1,002040E+09	1,368830E+09	1,368810E+09	1,001979E+09	3,748255E+08
1159	8,177106E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176542E+06	3,748387E+08	1,001987E+09	1,368811E+09	1,368827E+09	1,002032E+09	3,749000E+08
1160	8,179734E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181645E+06	3,748771E+08	1,002028E+09	1,368834E+09	1,368826E+09	1,002019E+09	3,748787E+08
1161	8,181313E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,180292E+06	3,749179E+08	1,002078E+09	1,368887E+09	1,368850E+09	1,001997E+09	3,748385E+08
1162	8,176828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176263E+06	3,748405E+08	1,002032E+09	1,368896E+09	1,368924E+09	1,002103E+09	3,749308E+08
1163	8,180257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182765E+06	3,749233E+08	1,002102E+09	1,368933E+09	1,368929E+09	1,002083E+09	3,748773E+08
1164	8,179555E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176643E+06	3,749163E+08	1,002124E+09	1,368977E+09	1,368976E+09	1,002119E+09	3,749005E+08
1165	8,176246E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177699E+06	3,748737E+08	1,002112E+09	1,368994E+09	1,369019E+09	1,002180E+09	3,749621E+08
1166	8,180908E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181211E+06	3,749642E+08	1,002183E+09	1,369025E+09	1,369002E+09	1,002121E+09	3,748795E+08
1167	8,177856E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,174477E+06	3,749034E+08	1,002155E+09	1,369038E+09	1,369044E+09	1,002180E+09	3,749441E+08
1168	8,176453E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179923E+06	3,749049E+08	1,002152E+09	1,369028E+09	1,369036E+09	1,002180E+09	3,749488E+08
1169	8,182126E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,178698E+06	3,749617E+08	1,002187E+09	1,369036E+09	1,369003E+09	1,002108E+09	3,748698E+08
1170	8,175444E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,176193E+06	3,748749E+08	1,002104E+09	1,368982E+09	1,369005E+09	1,002159E+09	3,749442E+08
1171	8,178298E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181644E+06	3,749231E+08	1,002119E+09	1,368947E+09	1,368935E+09	1,002092E+09	3,748925E+08
1172	8,180888E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177958E+06	3,749217E+08	1,002109E+09	1,368931E+09	1,368900E+09	1,002043E+09	3,748634E+08
1173	8,175899E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177461E+06	3,748283E+08	1,002006E+09	1,368859E+09	1,368879E+09	1,002071E+09	3,749270E+08
1174	8,183214E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181744E+06	3,748950E+08	1,002011E+09	1,368800E+09	1,368785E+09	1,001966E+09	3,748295E+08
1175	8,179749E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,177671E+06	3,748425E+08	1,001951E+09	1,368751E+09	1,368755E+09	1,001961E+09	3,748544E+08
1176	8,178361E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,179938E+06	3,748110E+08	1,001907E+09	1,368701E+09	1,368721E+09	1,001960E+09	3,748770E+08









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°
1285	8,184119E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186590E+06	3,746859E+08	1,001467E+09	1,368054E+09	1,368036E+09	1,001429E+09	3,746568E+08
1286	8,186262E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,183531E+06	3,746788E+08	1,001437E+09	1,368020E+09	1,367992E+09	1,001376E+09	3,746230E+08
1287	8,181727E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182085E+06	3,745872E+08	1,001336E+09	1,367949E+09	1,367978E+09	1,001415E+09	3,746929E+08
1288	8,188353E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187849E+06	3,746680E+08	1,001374E+09	1,367932E+09	1,367923E+09	1,001338E+09	3,746043E+08
1289	8,184668E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,183371E+06	3,746315E+08	1,001339E+09	1,367898E+09	1,367898E+09	1,001334E+09	3,746257E+08
1290	8,182936E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184588E+06	3,745988E+08	1,001320E+09	1,367895E+09	1,367907E+09	1,001361E+09	3,746648E+08
1291	8,187666E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188207E+06	3,746837E+08	1,001395E+09	1,367947E+09	1,367916E+09	1,001315E+09	3,745857E+08
1292	8,182811E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181288E+06	3,746111E+08	1,001353E+09	1,367960E+09	1,367981E+09	1,001403E+09	3,746698E+08
1293	8,184337E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186604E+06	3,746469E+08	1,001403E+09	1,367993E+09	1,367999E+09	1,001417E+09	3,746677E+08
1294	8,187007E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184756E+06	3,746950E+08	1,001454E+09	1,368043E+09	1,368025E+09	1,001404E+09	3,746264E+08
1295	8,182196E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,180918E+06	3,746222E+08	1,001418E+09	1,368056E+09	1,368088E+09	1,001500E+09	3,747191E+08
1296	8,184749E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188030E+06	3,747077E+08	1,001500E+09	1,368101E+09	1,368089E+09	1,001468E+09	3,746624E+08
1297	8,185413E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181376E+06	3,746989E+08	1,001511E+09	1,368124E+09	1,368104E+09	1,001468E+09	3,746621E+08
1298	8,180394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182890E+06	3,746372E+08	1,001461E+09	1,368109E+09	1,368127E+09	1,001520E+09	3,747265E+08
1299	8,186637E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186599E+06	3,747204E+08	1,001508E+09	1,368114E+09	1,368095E+09	1,001452E+09	3,746365E+08
1300	8,183283E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181269E+06	3,746603E+08	1,001447E+09	1,368070E+09	1,368085E+09	1,001473E+09	3,746825E+08
1301	8,181483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185855E+06	3,746511E+08	1,001429E+09	1,368024E+09	1,368028E+09	1,001445E+09	3,746883E+08
1302	8,188047E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185192E+06	3,746992E+08	1,001446E+09	1,368010E+09	1,367969E+09	1,001352E+09	3,746018E+08
1303	8,181708E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181816E+06	3,745981E+08	1,001343E+09	1,367946E+09	1,367959E+09	1,001389E+09	3,746740E+08
1304	8,185801E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186920E+06	3,746348E+08	1,001343E+09	1,367902E+09	1,367895E+09	1,001328E+09	3,746236E+08
1305	8,187834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184775E+06	3,746409E+08	1,001322E+09	1,367860E+09	1,367836E+09	1,001262E+09	3,745778E+08
1306	8,182217E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,183663E+06	3,745555E+08	1,001228E+09	1,367793E+09	1,367822E+09	1,001303E+09	3,746494E+08
1307	8,188455E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189467E+06	3,746381E+08	1,001276E+09	1,367787E+09	1,367772E+09	1,001227E+09	3,745635E+08
1308	8,184965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184567E+06	3,746015E+08	1,001250E+09	1,367784E+09	1,367781E+09	1,001240E+09	3,745902E+08
1309	8,183683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185104E+06	3,745656E+08	1,001234E+09	1,367782E+09	1,367795E+09	1,001277E+09	3,746358E+08
1310	8,188657E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188265E+06	3,746434E+08	1,001297E+09	1,367822E+09	1,367796E+09	1,001230E+09	3,745592E+08
1311	8,184303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181429E+06	3,745739E+08	1,001257E+09	1,367833E+09	1,367859E+09	1,001321E+09	3,746426E+08
1312	8,185179E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187497E+06	3,746150E+08	1,001309E+09	1,367865E+09	1,367876E+09	1,001332E+09	3,746385E+08
1313	8,187808E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185878E+06	3,746735E+08	1,001377E+09	1,367920E+09	1,367891E+09	1,001303E+09	3,745858E+08
1314	8,182221E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182010E+06	3,745952E+08	1,001337E+09	1,367941E+09	1,367963E+09	1,001401E+09	3,746813E+08
1315	8,185064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188774E+06	3,746724E+08	1,001406E+09	1,367979E+09	1,367967E+09	1,001373E+09	3,746275E+08
1316	8,186189E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182222E+06	3,746617E+08	1,001410E+09	1,368004E+09	1,367994E+09	1,001383E+09	3,746299E+08
1317	8,181327E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,183778E+06	3,746032E+08	1,001360E+09	1,367973E+09	1,367999E+09	1,001430E+09	3,746950E+08
1318	8,187596E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187173E+06	3,746835E+08	1,001402E+09	1,367963E+09	1,367944E+09	1,001347E+09	3,746031E+08
1319	8,184391E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,181798E+06	3,746237E+08	1,001349E+09	1,367928E+09	1,367934E+09	1,001366E+09	3,746470E+08
1320	8,182630E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186355E+06	3,746100E+08	1,001324E+09	1,367886E+09	1,367888E+09	1,001340E+09	3,746522E+08



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	8,189356E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186061E+06	3,746613E+08	1,001340E+09	1,367864E+09	1,367821E+09	1,001238E+09	3,745569E+08
1322	8,182422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182903E+06	3,745569E+08	1,001228E+09	1,367795E+09	1,367813E+09	1,001280E+09	3,746317E+08
1323	8,186535E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188284E+06	3,745944E+08	1,001220E+09	1,367739E+09	1,367741E+09	1,001218E+09	3,745818E+08
1324	8,188192E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186483E+06	3,746063E+08	1,001210E+09	1,367710E+09	1,367693E+09	1,001158E+09	3,745381E+08
1325	8,182782E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184762E+06	3,745253E+08	1,001132E+09	1,367652E+09	1,367675E+09	1,001198E+09	3,746128E+08
1326	8,189085E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189735E+06	3,745972E+08	1,001174E+09	1,367647E+09	1,367624E+09	1,001119E+09	3,745295E+08
1327	8,186295E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184472E+06	3,745600E+08	1,001151E+09	1,367653E+09	1,367649E+09	1,001146E+09	3,745602E+08
1328	8,185152E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185464E+06	3,745256E+08	1,001133E+09	1,367655E+09	1,367676E+09	1,001192E+09	3,746070E+08
1329	8,189875E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189330E+06	3,746161E+08	1,001206E+09	1,367691E+09	1,367668E+09	1,001136E+09	3,745223E+08
1330	8,184751E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182766E+06	3,745511E+08	1,001178E+09	1,367715E+09	1,367737E+09	1,001230E+09	3,746064E+08
1331	8,185200E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188722E+06	3,745894E+08	1,001231E+09	1,367754E+09	1,367758E+09	1,001243E+09	3,746045E+08
1332	8,188051E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186650E+06	3,746437E+08	1,001300E+09	1,367826E+09	1,367796E+09	1,001224E+09	3,745550E+08
1333	8,182861E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182503E+06	3,745633E+08	1,001252E+09	1,367830E+09	1,367858E+09	1,001324E+09	3,746542E+08
1334	8,186026E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188630E+06	3,746278E+08	1,001298E+09	1,367842E+09	1,367839E+09	1,001287E+09	3,746005E+08
1335	8,187626E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182617E+06	3,746224E+08	1,001301E+09	1,367854E+09	1,367852E+09	1,001290E+09	3,745997E+08
1336	8,182423E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184720E+06	3,745678E+08	1,001254E+09	1,367821E+09	1,367850E+09	1,001325E+09	3,746584E+08
1337	8,188501E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188360E+06	3,746547E+08	1,001308E+09	1,367814E+09	1,367782E+09	1,001224E+09	3,745564E+08
1338	8,184717E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182977E+06	3,745893E+08	1,001251E+09	1,367790E+09	1,367785E+09	1,001247E+09	3,746005E+08
1339	8,183215E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187206E+06	3,745683E+08	1,001213E+09	1,367742E+09	1,367745E+09	1,001230E+09	3,746099E+08
1340	8,190046E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187324E+06	3,746200E+08	1,001227E+09	1,367726E+09	1,367692E+09	1,001140E+09	3,745187E+08
1341	8,183290E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184253E+06	3,745228E+08	1,001116E+09	1,367640E+09	1,367667E+09	1,001180E+09	3,745958E+08
1342	8,187407E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188938E+06	3,745539E+08	1,001107E+09	1,367578E+09	1,367581E+09	1,001109E+09	3,745474E+08
1343	8,189280E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187185E+06	3,745685E+08	1,001107E+09	1,367561E+09	1,367539E+09	1,001052E+09	3,745045E+08
1344	8,184058E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185022E+06	3,744844E+08	1,001029E+09	1,367516E+09	1,367539E+09	1,001096E+09	3,745783E+08
1345	8,190267E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190270E+06	3,745608E+08	1,001077E+09	1,367511E+09	1,367486E+09	1,001014E+09	3,744907E+08
1346	8,187145E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185227E+06	3,745246E+08	1,001054E+09	1,367524E+09	1,367522E+09	1,001050E+09	3,745225E+08
1347	8,185731E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186694E+06	3,744950E+08	1,001037E+09	1,367524E+09	1,367551E+09	1,001101E+09	3,745708E+08
1348	8,189962E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190784E+06	3,745913E+08	1,001126E+09	1,367581E+09	1,367556E+09	1,001054E+09	3,744899E+08
1349	8,185124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,183786E+06	3,745286E+08	1,001105E+09	1,367608E+09	1,367625E+09	1,001148E+09	3,745766E+08
1350	8,185612E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188580E+06	3,745500E+08	1,001141E+09	1,367637E+09	1,367641E+09	1,001157E+09	3,745783E+08
1351	8,189336E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186434E+06	3,746020E+08	1,001202E+09	1,367700E+09	1,367677E+09	1,001145E+09	3,745304E+08
1352	8,184275E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,182872E+06	3,745237E+08	1,001148E+09	1,367696E+09	1,367733E+09	1,001238E+09	3,746252E+08
1353	8,187150E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189669E+06	3,745986E+08	1,001199E+09	1,367693E+09	1,367691E+09	1,001181E+09	3,745616E+08
1354	8,188090E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184121E+06	3,745977E+08	1,001214E+09	1,367718E+09	1,367705E+09	1,001180E+09	3,745569E+08
1355	8,182648E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186155E+06	3,745397E+08	1,001166E+09	1,367693E+09	1,367710E+09	1,001216E+09	3,746151E+08
1356	8,188678E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189380E+06	3,746201E+08	1,001217E+09	1,367700E+09	1,367662E+09	1,001126E+09	3,745182E+08

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°
1357	8,185393E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,183847E+06	3,745525E+08	1,001152E+09	1,367661E+09	1,367659E+09	1,001153E+09	3,745657E+08
1358	8,184262E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187226E+06	3,745176E+08	1,001089E+09	1,367585E+09	1,367598E+09	1,001129E+09	3,745772E+08
1359	8,191354E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188045E+06	3,745752E+08	1,001102E+09	1,367553E+09	1,367532E+09	1,001038E+09	3,744861E+08
1360	8,184611E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185148E+06	3,744838E+08	1,001000E+09	1,367473E+09	1,367502E+09	1,001067E+09	3,745587E+08
1361	8,188596E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189778E+06	3,745168E+08	1,000998E+09	1,367416E+09	1,367409E+09	1,000981E+09	3,745027E+08
1362	8,190002E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188042E+06	3,745296E+08	1,001003E+09	1,367419E+09	1,367387E+09	1,000932E+09	3,744605E+08
1363	8,184986E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185724E+06	3,744442E+08	1,000923E+09	1,367379E+09	1,367403E+09	1,000990E+09	3,745366E+08
1364	8,190724E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191453E+06	3,745258E+08	1,000981E+09	1,367393E+09	1,367371E+09	1,000926E+09	3,744560E+08
1365	8,187749E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186595E+06	3,745012E+08	1,000972E+09	1,367405E+09	1,367404E+09	1,000967E+09	3,744905E+08
1366	8,186133E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187275E+06	3,744641E+08	1,000952E+09	1,367403E+09	1,367428E+09	1,001016E+09	3,745431E+08
1367	8,190653E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191301E+06	3,745603E+08	1,001044E+09	1,367466E+09	1,367442E+09	1,000977E+09	3,744659E+08
1368	8,186317E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,183981E+06	3,744936E+08	1,001018E+09	1,367495E+09	1,367514E+09	1,001068E+09	3,745503E+08
1369	8,186634E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188892E+06	3,745134E+08	1,001045E+09	1,367508E+09	1,367515E+09	1,001066E+09	3,745458E+08
1370	8,190204E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187207E+06	3,745671E+08	1,001103E+09	1,367568E+09	1,367547E+09	1,001048E+09	3,744940E+08
1371	8,184736E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184263E+06	3,744947E+08	1,001051E+09	1,367557E+09	1,367594E+09	1,001137E+09	3,745845E+08
1372	8,187094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191119E+06	3,745739E+08	1,001120E+09	1,367576E+09	1,367560E+09	1,001081E+09	3,745235E+08
1373	8,188384E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185377E+06	3,745729E+08	1,001135E+09	1,367600E+09	1,367574E+09	1,001078E+09	3,745192E+08
1374	8,183224E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186117E+06	3,744956E+08	1,001063E+09	1,367561E+09	1,367577E+09	1,001116E+09	3,745823E+08
1375	8,190086E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189494E+06	3,745729E+08	1,001102E+09	1,367553E+09	1,367528E+09	1,001037E+09	3,744905E+08
1376	8,187136E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184406E+06	3,745059E+08	1,001029E+09	1,367502E+09	1,367514E+09	1,001054E+09	3,745337E+08
1377	8,185771E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188089E+06	3,744775E+08	1,000968E+09	1,367412E+09	1,367429E+09	1,001012E+09	3,745369E+08
1378	8,192202E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189388E+06	3,745388E+08	1,000993E+09	1,367394E+09	1,367364E+09	1,000913E+09	3,744416E+08
1379	8,185246E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186379E+06	3,744486E+08	1,000896E+09	1,367325E+09	1,367344E+09	1,000945E+09	3,745115E+08
1380	8,188923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190784E+06	3,744803E+08	1,000903E+09	1,367292E+09	1,367275E+09	1,000875E+09	3,744618E+08
1381	8,190554E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189129E+06	3,744963E+08	1,000908E+09	1,367291E+09	1,367261E+09	1,000836E+09	3,744235E+08
1382	8,185800E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186034E+06	3,744027E+08	1,000816E+09	1,367241E+09	1,367273E+09	1,000899E+09	3,745043E+08
1383	8,191496E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192437E+06	3,744923E+08	1,000881E+09	1,367252E+09	1,367242E+09	1,000844E+09	3,744299E+08
1384	8,188855E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187350E+06	3,744708E+08	1,000884E+09	1,367279E+09	1,367277E+09	1,000878E+09	3,744615E+08
1385	8,186998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187785E+06	3,744315E+08	1,000865E+09	1,367278E+09	1,367294E+09	1,000916E+09	3,745090E+08
1386	8,191326E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191682E+06	3,745232E+08	1,000954E+09	1,367348E+09	1,367320E+09	1,000881E+09	3,744317E+08
1387	8,187187E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184664E+06	3,744588E+08	1,000922E+09	1,367370E+09	1,367393E+09	1,000977E+09	3,745146E+08
1388	8,186970E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190023E+06	3,744827E+08	1,000956E+09	1,367392E+09	1,367398E+09	1,000979E+09	3,745132E+08
1389	8,190722E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188704E+06	3,745467E+08	1,001025E+09	1,367449E+09	1,367424E+09	1,000959E+09	3,744610E+08
1390	8,185146E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184931E+06	3,744641E+08	1,000967E+09	1,367436E+09	1,367465E+09	1,001041E+09	3,745514E+08
1391	8,187772E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191548E+06	3,745394E+08	1,001031E+09	1,367453E+09	1,367439E+09	1,000995E+09	3,744965E+08
1392	8,189829E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185535E+06	3,745315E+08	1,001037E+09	1,367475E+09	1,367452E+09	1,000988E+09	3,744895E+08

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	8,184645E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186278E+06	3,744489E+08	1,000947E+09	1,367409E+09	1,367431E+09	1,001012E+09	3,745468E+08
1394	8,191381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190294E+06	3,745277E+08	1,000979E+09	1,367391E+09	1,367372E+09	1,000924E+09	3,744502E+08
1395	8,187954E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186142E+06	3,744700E+08	1,000909E+09	1,367330E+09	1,367344E+09	1,000933E+09	3,744871E+08
1396	8,186029E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189698E+06	3,744457E+08	1,000868E+09	1,367265E+09	1,367267E+09	1,000890E+09	3,744910E+08
1397	8,192439E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190974E+06	3,745084E+08	1,000898E+09	1,367254E+09	1,367210E+09	1,000793E+09	3,743968E+08
1398	8,185795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186608E+06	3,744041E+08	1,000787E+09	1,367183E+09	1,367198E+09	1,000833E+09	3,744708E+08
1399	8,189884E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191307E+06	3,744376E+08	1,000792E+09	1,367146E+09	1,367142E+09	1,000784E+09	3,744316E+08
1400	8,191988E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189896E+06	3,744581E+08	1,000803E+09	1,367152E+09	1,367129E+09	1,000746E+09	3,743930E+08
1401	8,187080E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186923E+06	3,743704E+08	1,000717E+09	1,367098E+09	1,367131E+09	1,000800E+09	3,744701E+08
1402	8,192207E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193552E+06	3,744617E+08	1,000794E+09	1,367128E+09	1,367110E+09	1,000745E+09	3,743958E+08
1403	8,189556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188203E+06	3,744392E+08	1,000796E+09	1,367161E+09	1,367156E+09	1,000784E+09	3,744253E+08
1404	8,187342E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188404E+06	3,743983E+08	1,000783E+09	1,367176E+09	1,367187E+09	1,000832E+09	3,744770E+08
1405	8,191828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192474E+06	3,744915E+08	1,000867E+09	1,367234E+09	1,367208E+09	1,000799E+09	3,744004E+08
1406	8,187827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,184969E+06	3,744223E+08	1,000823E+09	1,367240E+09	1,367270E+09	1,000890E+09	3,744833E+08
1407	8,187547E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191057E+06	3,744552E+08	1,000865E+09	1,367258E+09	1,367272E+09	1,000898E+09	3,744878E+08
1408	8,191931E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189384E+06	3,745175E+08	1,000942E+09	1,367327E+09	1,367296E+09	1,000867E+09	3,744320E+08
1409	8,186248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185327E+06	3,744278E+08	1,000875E+09	1,367308E+09	1,367329E+09	1,000937E+09	3,745160E+08
1410	8,188874E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191796E+06	3,744961E+08	1,000928E+09	1,367323E+09	1,367307E+09	1,000891E+09	3,744600E+08
1411	8,190892E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186492E+06	3,744903E+08	1,000924E+09	1,367330E+09	1,367314E+09	1,000884E+09	3,744482E+08
1412	8,185109E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187700E+06	3,744147E+08	1,000842E+09	1,367266E+09	1,367287E+09	1,000907E+09	3,745063E+08
1413	8,191790E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192167E+06	3,745007E+08	1,000881E+09	1,367243E+09	1,367219E+09	1,000813E+09	3,744081E+08
1414	8,188245E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187252E+06	3,744349E+08	1,000806E+09	1,367182E+09	1,367187E+09	1,000816E+09	3,744449E+08
1415	8,186733E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190486E+06	3,744082E+08	1,000762E+09	1,367118E+09	1,367124E+09	1,000787E+09	3,744572E+08
1416	8,193854E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191334E+06	3,744642E+08	1,000790E+09	1,367115E+09	1,367073E+09	1,000692E+09	3,743635E+08
1417	8,187336E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186803E+06	3,743570E+08	1,000669E+09	1,367030E+09	1,367049E+09	1,000725E+09	3,744332E+08
1418	8,191104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192014E+06	3,743948E+08	1,000677E+09	1,366996E+09	1,366996E+09	1,000677E+09	3,743943E+08
1419	8,192774E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191339E+06	3,744259E+08	1,000699E+09	1,367005E+09	1,366984E+09	1,000641E+09	3,743529E+08
1420	8,187478E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188168E+06	3,743424E+08	1,000634E+09	1,366977E+09	1,366996E+09	1,000698E+09	3,744321E+08
1421	8,192458E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194677E+06	3,744319E+08	1,000710E+09	1,367013E+09	1,366988E+09	1,000649E+09	3,743608E+08
1422	8,190248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188237E+06	3,743984E+08	1,000697E+09	1,367037E+09	1,367036E+09	1,000695E+09	3,743929E+08
1423	8,188180E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188916E+06	3,743613E+08	1,000680E+09	1,367044E+09	1,367073E+09	1,000758E+09	3,744535E+08
1424	8,193192E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193049E+06	3,744592E+08	1,000774E+09	1,367108E+09	1,367090E+09	1,000718E+09	3,743751E+08
1425	8,189002E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,185719E+06	3,743942E+08	1,000737E+09	1,367110E+09	1,367135E+09	1,000793E+09	3,744501E+08
1426	8,188262E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191978E+06	3,744270E+08	1,000786E+09	1,367144E+09	1,367146E+09	1,000797E+09	3,744524E+08
1427	8,192576E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190334E+06	3,744878E+08	1,000857E+09	1,367212E+09	1,367177E+09	1,000771E+09	3,743933E+08
1428	8,186591E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,186275E+06	3,743958E+08	1,000790E+09	1,367197E+09	1,367212E+09	1,000845E+09	3,744785E+08

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°
1429	8,189311E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192932E+06	3,744619E+08	1,000829E+09	1,367194E+09	1,367181E+09	1,000797E+09	3,744229E+08
1430	8,191391E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187444E+06	3,744506E+08	1,000808E+09	1,367176E+09	1,367168E+09	1,000782E+09	3,744096E+08
1431	8,185577E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189034E+06	3,743824E+08	1,000731E+09	1,367105E+09	1,367135E+09	1,000806E+09	3,744735E+08
1432	8,193065E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192870E+06	3,744626E+08	1,000777E+09	1,367095E+09	1,367064E+09	1,000701E+09	3,743724E+08
1433	8,189489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187570E+06	3,743898E+08	1,000692E+09	1,367028E+09	1,367026E+09	1,000693E+09	3,744036E+08
1434	8,188237E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190647E+06	3,743598E+08	1,000645E+09	1,366969E+09	1,366973E+09	1,000669E+09	3,744160E+08
1435	8,195015E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192300E+06	3,744200E+08	1,000669E+09	1,366959E+09	1,366925E+09	1,000584E+09	3,743220E+08
1436	8,188154E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188171E+06	3,743246E+08	1,000570E+09	1,366889E+09	1,366907E+09	1,000621E+09	3,743927E+08
1437	8,191533E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193771E+06	3,743688E+08	1,000588E+09	1,366864E+09	1,366858E+09	1,000575E+09	3,743556E+08
1438	8,193065E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192208E+06	3,743914E+08	1,000604E+09	1,366876E+09	1,366852E+09	1,000543E+09	3,743167E+08
1439	8,188100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188835E+06	3,743092E+08	1,000538E+09	1,366851E+09	1,366881E+09	1,000618E+09	3,744062E+08
1440	8,193735E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194676E+06	3,743906E+08	1,000612E+09	1,366890E+09	1,366874E+09	1,000569E+09	3,743354E+08
1441	8,191658E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188311E+06	3,743572E+08	1,000590E+09	1,366899E+09	1,366905E+09	1,000603E+09	3,743618E+08
1442	8,189235E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189736E+06	3,743287E+08	1,000584E+09	1,366909E+09	1,366940E+09	1,000660E+09	3,744190E+08
1443	8,193635E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194462E+06	3,744359E+08	1,000690E+09	1,366981E+09	1,366957E+09	1,000622E+09	3,743379E+08
1444	8,189210E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187052E+06	3,743748E+08	1,000673E+09	1,367008E+09	1,367013E+09	1,000695E+09	3,744109E+08
1445	8,188283E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193110E+06	3,744009E+08	1,000713E+09	1,367042E+09	1,367035E+09	1,000706E+09	3,744152E+08
1446	8,192982E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190561E+06	3,744480E+08	1,000759E+09	1,367091E+09	1,367061E+09	1,000684E+09	3,743588E+08
1447	8,187258E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187158E+06	3,743595E+08	1,000680E+09	1,367056E+09	1,367092E+09	1,000766E+09	3,744525E+08
1448	8,190779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193447E+06	3,744231E+08	1,000722E+09	1,367049E+09	1,367045E+09	1,000707E+09	3,743947E+08
1449	8,192710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188235E+06	3,744123E+08	1,000699E+09	1,367018E+09	1,367007E+09	1,000669E+09	3,743731E+08
1450	8,186813E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189623E+06	3,743426E+08	1,000625E+09	1,366958E+09	1,366977E+09	1,000684E+09	3,744326E+08
1451	8,194103E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193600E+06	3,744211E+08	1,000667E+09	1,366946E+09	1,366914E+09	1,000586E+09	3,743295E+08
1452	8,190263E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188456E+06	3,743505E+08	1,000589E+09	1,366886E+09	1,366878E+09	1,000579E+09	3,743579E+08
1453	8,188899E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191869E+06	3,743221E+08	1,000534E+09	1,366822E+09	1,366829E+09	1,000561E+09	3,743718E+08
1454	8,195347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193586E+06	3,743819E+08	1,000553E+09	1,366800E+09	1,366774E+09	1,000477E+09	3,742812E+08
1455	8,188609E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189700E+06	3,742948E+08	1,000463E+09	1,366738E+09	1,366765E+09	1,000526E+09	3,743612E+08
1456	8,192717E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194309E+06	3,743315E+08	1,000492E+09	1,366732E+09	1,366723E+09	1,000477E+09	3,743252E+08
1457	8,194276E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192330E+06	3,743469E+08	1,000496E+09	1,366735E+09	1,366711E+09	1,000440E+09	3,742830E+08
1458	8,189512E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,188935E+06	3,742669E+08	1,000432E+09	1,366714E+09	1,366747E+09	1,000517E+09	3,743712E+08
1459	8,194509E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195581E+06	3,743554E+08	1,000510E+09	1,366752E+09	1,366743E+09	1,000477E+09	3,743002E+08
1460	8,192171E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189744E+06	3,743379E+08	1,000517E+09	1,366781E+09	1,366778E+09	1,000508E+09	3,743234E+08
1461	8,189241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191554E+06	3,743136E+08	1,000521E+09	1,366808E+09	1,366825E+09	1,000569E+09	3,743819E+08
1462	8,193575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195243E+06	3,744092E+08	1,000616E+09	1,366879E+09	1,366850E+09	1,000537E+09	3,743056E+08
1463	8,189704E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187713E+06	3,743452E+08	1,000589E+09	1,366904E+09	1,366919E+09	1,000627E+09	3,743878E+08
1464	8,189574E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192828E+06	3,743583E+08	1,000618E+09	1,366927E+09	1,366930E+09	1,000633E+09	3,743924E+08



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												
1465	8,194418E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190431E+06	3,744003E+08	1,000642E+09	1,366942E+09	1,366925E+09	1,000593E+09	3,743295E+08
1466	8,188575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187892E+06	3,743216E+08	1,000568E+09	1,366898E+09	1,366938E+09	1,000658E+09	3,744166E+08
1467	8,191612E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194535E+06	3,743881E+08	1,000613E+09	1,366889E+09	1,366883E+09	1,000592E+09	3,743539E+08
1468	8,193318E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189581E+06	3,743823E+08	1,000608E+09	1,366878E+09	1,366848E+09	1,000545E+09	3,743261E+08
1469	8,187312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190817E+06	3,743078E+08	1,000526E+09	1,366821E+09	1,366831E+09	1,000565E+09	3,743841E+08
1470	8,194503E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194224E+06	3,743761E+08	1,000549E+09	1,366795E+09	1,366768E+09	1,000476E+09	3,742869E+08
1471	8,190860E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189800E+06	3,743139E+08	1,000472E+09	1,366733E+09	1,366742E+09	1,000485E+09	3,743247E+08
1472	8,190268E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192599E+06	3,742845E+08	1,000429E+09	1,366674E+09	1,366687E+09	1,000464E+09	3,743398E+08
1473	8,196372E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194441E+06	3,743424E+08	1,000445E+09	1,366648E+09	1,366620E+09	1,000369E+09	3,742467E+08
1474	8,189936E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190313E+06	3,742574E+08	1,000362E+09	1,366598E+09	1,366619E+09	1,000416E+09	3,743248E+08
1475	8,193656E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194831E+06	3,742901E+08	1,000386E+09	1,366593E+09	1,366588E+09	1,000378E+09	3,742889E+08
1476	8,195023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193148E+06	3,743124E+08	1,000403E+09	1,366605E+09	1,366578E+09	1,000339E+09	3,742435E+08
1477	8,189980E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190149E+06	3,742377E+08	1,000340E+09	1,366587E+09	1,366619E+09	1,000420E+09	3,743307E+08
1478	8,194380E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196718E+06	3,743274E+08	1,000420E+09	1,366622E+09	1,366615E+09	1,000385E+09	3,742654E+08
1479	8,192421E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191081E+06	3,743176E+08	1,000440E+09	1,366668E+09	1,366666E+09	1,000429E+09	3,742971E+08
1480	8,190278E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191778E+06	3,742823E+08	1,000448E+09	1,366709E+09	1,366721E+09	1,000491E+09	3,743572E+08
1481	8,194756E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194915E+06	3,743653E+08	1,000519E+09	1,366759E+09	1,366735E+09	1,000453E+09	3,742795E+08
1482	8,191317E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,187688E+06	3,743020E+08	1,000484E+09	1,366771E+09	1,366794E+09	1,000537E+09	3,743581E+08
1483	8,190560E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193415E+06	3,743180E+08	1,000507E+09	1,366781E+09	1,366795E+09	1,000542E+09	3,743596E+08
1484	8,195156E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191889E+06	3,743744E+08	1,000552E+09	1,366800E+09	1,366774E+09	1,000484E+09	3,742876E+08
1485	8,188700E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189785E+06	3,742990E+08	1,000484E+09	1,366766E+09	1,366790E+09	1,000543E+09	3,743702E+08
1486	8,191606E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195540E+06	3,743552E+08	1,000518E+09	1,366754E+09	1,366740E+09	1,000481E+09	3,743120E+08
1487	8,193721E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190723E+06	3,743479E+08	1,000505E+09	1,366743E+09	1,366721E+09	1,000449E+09	3,742918E+08
1488	8,188704E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190957E+06	3,742627E+08	1,000418E+09	1,366683E+09	1,366698E+09	1,000469E+09	3,743504E+08
1489	8,195718E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194560E+06	3,743264E+08	1,000422E+09	1,366630E+09	1,366613E+09	1,000370E+09	3,742522E+08
1490	8,192189E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190784E+06	3,742747E+08	1,000356E+09	1,366569E+09	1,366577E+09	1,000370E+09	3,742861E+08
1491	8,191198E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193570E+06	3,742464E+08	1,000320E+09	1,366518E+09	1,366528E+09	1,000351E+09	3,743005E+08
1492	8,197053E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195670E+06	3,743089E+08	1,000351E+09	1,366509E+09	1,366467E+09	1,000251E+09	3,742029E+08
1493	8,190574E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191321E+06	3,742224E+08	1,000263E+09	1,366464E+09	1,366480E+09	1,000306E+09	3,742806E+08
1494	8,194052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195426E+06	3,742483E+08	1,000276E+09	1,366450E+09	1,366453E+09	1,000280E+09	3,742521E+08
1495	8,195536E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194454E+06	3,742825E+08	1,000303E+09	1,366473E+09	1,366460E+09	1,000258E+09	3,742160E+08
1496	8,191222E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190759E+06	3,742095E+08	1,000261E+09	1,366473E+09	1,366503E+09	1,000339E+09	3,743033E+08
1497	8,195108E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197083E+06	3,742935E+08	1,000335E+09	1,366505E+09	1,366494E+09	1,000299E+09	3,742403E+08
1498	8,193841E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191266E+06	3,742852E+08	1,000360E+09	1,366560E+09	1,366552E+09	1,000343E+09	3,742689E+08
1499	8,191204E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191934E+06	3,742432E+08	1,000354E+09	1,366592E+09	1,366610E+09	1,000410E+09	3,743280E+08
1500	8,195573E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195553E+06	3,743312E+08	1,000429E+09	1,366635E+09	1,366610E+09	1,000362E+09	3,742437E+08

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												
1501	8,191750E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,189218E+06	3,742746E+08	1,000389E+09	1,366637E+09	1,366660E+09	1,000438E+09	3,743166E+08
1502	8,190329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194727E+06	3,742883E+08	1,000407E+09	1,366635E+09	1,366649E+09	1,000439E+09	3,743213E+08
1503	8,195321E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193499E+06	3,743498E+08	1,000463E+09	1,366669E+09	1,366641E+09	1,000386E+09	3,742554E+08
1504	8,189773E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190187E+06	3,742628E+08	1,000395E+09	1,366644E+09	1,366659E+09	1,000442E+09	3,743352E+08
1505	8,192713E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195293E+06	3,743051E+08	1,000404E+09	1,366609E+09	1,366597E+09	1,000376E+09	3,742784E+08
1506	8,195366E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191061E+06	3,743019E+08	1,000388E+09	1,366590E+09	1,366571E+09	1,000341E+09	3,742550E+08
1507	8,189919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191725E+06	3,742198E+08	1,000299E+09	1,366523E+09	1,366546E+09	1,000364E+09	3,743127E+08
1508	8,196614E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196148E+06	3,742956E+08	1,000323E+09	1,366478E+09	1,366452E+09	1,000253E+09	3,742093E+08
1509	8,192709E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192603E+06	3,742453E+08	1,000260E+09	1,366428E+09	1,366425E+09	1,000252E+09	3,742400E+08
1510	8,191548E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194383E+06	3,742065E+08	1,000211E+09	1,366375E+09	1,366384E+09	1,000243E+09	3,742605E+08
1511	8,197564E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196705E+06	3,742697E+08	1,000241E+09	1,366371E+09	1,366341E+09	1,000159E+09	3,741715E+08
1512	8,192028E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191386E+06	3,741792E+08	1,000157E+09	1,366329E+09	1,366351E+09	1,000214E+09	3,742481E+08
1513	8,195013E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195746E+06	3,742048E+08	1,000161E+09	1,366299E+09	1,366310E+09	1,000183E+09	3,742218E+08
1514	8,196743E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195315E+06	3,742520E+08	1,000210E+09	1,366333E+09	1,366314E+09	1,000157E+09	3,741834E+08
1515	8,192111E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191557E+06	3,741796E+08	1,000178E+09	1,366352E+09	1,366376E+09	1,000245E+09	3,742704E+08
1516	8,195710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198120E+06	3,742666E+08	1,000260E+09	1,366396E+09	1,366371E+09	1,000201E+09	3,742035E+08
1517	8,194392E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192189E+06	3,742549E+08	1,000276E+09	1,366450E+09	1,366440E+09	1,000251E+09	3,742297E+08
1518	8,191266E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192660E+06	3,742076E+08	1,000255E+09	1,366464E+09	1,366491E+09	1,000326E+09	3,742948E+08
1519	8,195819E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196881E+06	3,743032E+08	1,000334E+09	1,366510E+09	1,366497E+09	1,000283E+09	3,742169E+08
1520	8,192752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190065E+06	3,742478E+08	1,000310E+09	1,366519E+09	1,366536E+09	1,000349E+09	3,742863E+08
1521	8,191043E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195080E+06	3,742511E+08	1,000313E+09	1,366505E+09	1,366513E+09	1,000340E+09	3,742924E+08
1522	8,196872E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193803E+06	3,743123E+08	1,000368E+09	1,366540E+09	1,366504E+09	1,000284E+09	3,742227E+08
1523	8,191018E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190386E+06	3,742179E+08	1,000288E+09	1,366508E+09	1,366526E+09	1,000343E+09	3,742992E+08
1524	8,193809E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196036E+06	3,742650E+08	1,000296E+09	1,366462E+09	1,366449E+09	1,000265E+09	3,742361E+08
1525	8,195944E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192755E+06	3,742678E+08	1,000277E+09	1,366436E+09	1,366417E+09	1,000226E+09	3,742073E+08
1526	8,190011E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193153E+06	3,741850E+08	1,000186E+09	1,366360E+09	1,366385E+09	1,000250E+09	3,742702E+08
1527	8,196976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197780E+06	3,742620E+08	1,000218E+09	1,366335E+09	1,366309E+09	1,000146E+09	3,741747E+08
1528	8,194045E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193142E+06	3,742038E+08	1,000157E+09	1,366292E+09	1,366285E+09	1,000146E+09	3,742037E+08
1529	8,192826E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194146E+06	3,741527E+08	1,000084E+09	1,366217E+09	1,366234E+09	1,000137E+09	3,742279E+08
1530	8,199199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197131E+06	3,742252E+08	1,000124E+09	1,366214E+09	1,366188E+09	1,000054E+09	3,741374E+08
1531	8,193237E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192135E+06	3,741427E+08	1,000051E+09	1,366181E+09	1,366207E+09	1,000113E+09	3,742111E+08
1532	8,195603E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197293E+06	3,741823E+08	1,000082E+09	1,366171E+09	1,366168E+09	1,000075E+09	3,741820E+08
1533	8,197049E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196929E+06	3,742313E+08	1,000138E+09	1,366228E+09	1,366195E+09	1,000058E+09	3,741425E+08
1534	8,192249E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192343E+06	3,741492E+08	1,000094E+09	1,366244E+09	1,366267E+09	1,000161E+09	3,742373E+08
1535	8,195987E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198972E+06	3,742335E+08	1,000173E+09	1,366293E+09	1,366279E+09	1,000132E+09	3,741803E+08
1536	8,195706E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192286E+06	3,742174E+08	1,000184E+09	1,366337E+09	1,366334E+09	1,000177E+09	3,742030E+08

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	8,191973E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192861E+06	3,741669E+08	1,000146E+09	1,366321E+09	1,366359E+09	1,000238E+09	3,742688E+08
1538	8,197029E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197475E+06	3,742716E+08	1,000241E+09	1,366371E+09	1,366352E+09	1,000184E+09	3,741868E+08
1539	8,193768E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,190663E+06	3,742142E+08	1,000219E+09	1,366391E+09	1,366400E+09	1,000247E+09	3,742509E+08
1540	8,191976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195910E+06	3,742188E+08	1,000223E+09	1,366377E+09	1,366374E+09	1,000227E+09	3,742509E+08
1541	8,197727E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194874E+06	3,742763E+08	1,000267E+09	1,366407E+09	1,366369E+09	1,000175E+09	3,741777E+08
1542	8,191366E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191478E+06	3,741788E+08	1,000174E+09	1,366358E+09	1,366384E+09	1,000240E+09	3,742582E+08
1543	8,194212E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197666E+06	3,742327E+08	1,000190E+09	1,366319E+09	1,366315E+09	1,000168E+09	3,742025E+08
1544	8,196938E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193959E+06	3,742344E+08	1,000181E+09	1,366299E+09	1,366276E+09	1,000123E+09	3,741709E+08
1545	8,190868E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193582E+06	3,741410E+08	1,000071E+09	1,366208E+09	1,366232E+09	1,000140E+09	3,742371E+08
1546	8,198567E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198115E+06	3,742166E+08	1,000103E+09	1,366181E+09	1,366153E+09	1,000036E+09	3,741395E+08
1547	8,195443E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193439E+06	3,741554E+08	1,000036E+09	1,366137E+09	1,366136E+09	1,000038E+09	3,741654E+08
1548	8,194037E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195137E+06	3,741149E+08	9,999716E+08	1,366058E+09	1,366075E+09	1,000018E+09	3,741831E+08
1549	8,199606E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198879E+06	3,741959E+08	1,000022E+09	1,366066E+09	1,366037E+09	9,999398E+08	3,740909E+08
1550	8,193294E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193543E+06	3,741166E+08	9,999614E+08	1,366046E+09	1,366066E+09	1,000010E+09	3,741711E+08
1551	8,195708E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198674E+06	3,741555E+08	1,000004E+09	1,366068E+09	1,366060E+09	9,999889E+08	3,741529E+08
1552	8,198149E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197120E+06	3,741963E+08	1,000058E+09	1,366130E+09	1,366097E+09	9,999799E+08	3,741140E+08
1553	8,193318E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191998E+06	3,741032E+08	9,999871E+08	1,366117E+09	1,366154E+09	1,000083E+09	3,742140E+08
1554	8,197420E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199131E+06	3,741937E+08	1,000070E+09	1,366157E+09	1,366153E+09	1,000051E+09	3,741556E+08
1555	8,196910E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192842E+06	3,741843E+08	1,000089E+09	1,366203E+09	1,366205E+09	1,000090E+09	3,741730E+08
1556	8,192689E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194221E+06	3,741449E+08	1,000067E+09	1,366195E+09	1,366220E+09	1,000133E+09	3,742311E+08
1557	8,197473E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198810E+06	3,742475E+08	1,000163E+09	1,366257E+09	1,366225E+09	1,000081E+09	3,741453E+08
1558	8,193998E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191588E+06	3,741828E+08	1,000129E+09	1,366269E+09	1,366277E+09	1,000151E+09	3,742115E+08
1559	8,192300E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196913E+06	3,741835E+08	1,000128E+09	1,366261E+09	1,366264E+09	1,000141E+09	3,742186E+08
1560	8,198782E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195547E+06	3,742384E+08	1,000165E+09	1,366276E+09	1,366245E+09	1,000084E+09	3,741425E+08
1561	8,191972E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192106E+06	3,741363E+08	1,000053E+09	1,366195E+09	1,366231E+09	1,000137E+09	3,742257E+08
1562	8,195559E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198385E+06	3,741944E+08	1,000081E+09	1,366160E+09	1,366150E+09	1,000058E+09	3,741688E+08
1563	8,198211E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194691E+06	3,741910E+08	1,000068E+09	1,366145E+09	1,366118E+09	1,000007E+09	3,741321E+08
1564	8,192161E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194340E+06	3,741003E+08	9,999562E+08	1,366050E+09	1,366069E+09	1,000014E+09	3,741914E+08
1565	8,199561E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199147E+06	3,741744E+08	9,999852E+08	1,366024E+09	1,365998E+09	9,999157E+08	3,740914E+08
1566	8,195859E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194654E+06	3,741175E+08	9,999190E+08	1,365976E+09	1,365981E+09	9,999260E+08	3,741206E+08
1567	8,194394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196755E+06	3,740864E+08	9,998778E+08	1,365928E+09	1,365943E+09	9,999189E+08	3,741474E+08
1568	8,200342E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199986E+06	3,741678E+08	9,999421E+08	1,365952E+09	1,365915E+09	9,998478E+08	3,740580E+08
1569	8,194152E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193722E+06	3,740781E+08	9,998663E+08	1,365925E+09	1,365947E+09	9,999230E+08	3,741445E+08
1570	8,197122E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198699E+06	3,741158E+08	9,999096E+08	1,365945E+09	1,365942E+09	9,999093E+08	3,741288E+08
1571	8,199533E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197024E+06	3,741517E+08	9,999533E+08	1,366002E+09	1,365982E+09	9,999012E+08	3,740859E+08
1572	8,194371E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192884E+06	3,740715E+08	9,998852E+08	1,365975E+09	1,366018E+09	9,999854E+08	3,741772E+08

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude °	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												
1573	8,197679E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200579E+06	3,741680E+08	9,999776E+08	1,366020E+09	1,366014E+09	9,999494E+08	3,741144E+08
1574	8,196844E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194299E+06	3,741625E+08	1,000007E+09	1,366076E+09	1,366069E+09	9,999886E+08	3,741338E+08
1575	8,192704E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195690E+06	3,741213E+08	9,999951E+08	1,366096E+09	1,366109E+09	1,000041E+09	3,741976E+08
1576	8,198280E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199201E+06	3,742146E+08	1,000082E+09	1,366153E+09	1,366119E+09	9,999958E+08	3,741135E+08
1577	8,194897E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,191613E+06	3,741390E+08	1,000021E+09	1,366134E+09	1,366154E+09	1,000064E+09	3,741827E+08
1578	8,193669E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197268E+06	3,741435E+08	1,000020E+09	1,366112E+09	1,366123E+09	1,000050E+09	3,741891E+08
1579	8,199967E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196224E+06	3,741994E+08	1,000058E+09	1,366128E+09	1,366100E+09	9,999849E+08	3,741085E+08
1580	8,192993E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,193509E+06	3,741062E+08	9,999522E+08	1,366044E+09	1,366070E+09	1,000017E+09	3,741838E+08
1581	8,196474E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199414E+06	3,741567E+08	9,999748E+08	1,366014E+09	1,365998E+09	9,999389E+08	3,741236E+08
1582	8,198783E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195719E+06	3,741498E+08	9,999529E+08	1,365991E+09	1,365966E+09	9,998944E+08	3,740891E+08
1583	8,192894E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195303E+06	3,740588E+08	9,998441E+08	1,365908E+09	1,365929E+09	9,999083E+08	3,741518E+08
1584	8,200473E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199990E+06	3,741349E+08	9,998752E+08	1,365876E+09	1,365855E+09	9,998120E+08	3,740519E+08
1585	8,196387E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195371E+06	3,740789E+08	9,998061E+08	1,365818E+09	1,365827E+09	9,998198E+08	3,740855E+08
1586	8,195582E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197431E+06	3,740528E+08	9,997836E+08	1,365788E+09	1,365797E+09	9,998185E+08	3,741156E+08
1587	8,201445E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200429E+06	3,741275E+08	9,998454E+08	1,365827E+09	1,365789E+09	9,997545E+08	3,740271E+08
1588	8,195545E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194334E+06	3,740423E+08	9,997659E+08	1,365792E+09	1,365815E+09	9,998234E+08	3,741081E+08
1589	8,197955E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199438E+06	3,740780E+08	9,998069E+08	1,365812E+09	1,365815E+09	9,998153E+08	3,740906E+08
1590	8,199768E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198226E+06	3,741215E+08	9,998543E+08	1,365863E+09	1,365850E+09	9,998101E+08	3,740494E+08
1591	8,194388E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194494E+06	3,740514E+08	9,998114E+08	1,365866E+09	1,365901E+09	9,998977E+08	3,741447E+08
1592	8,197948E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201584E+06	3,741462E+08	9,999119E+08	1,365922E+09	1,365906E+09	9,998656E+08	3,740838E+08
1593	8,197422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194466E+06	3,741292E+08	9,999224E+08	1,365964E+09	1,365956E+09	9,999040E+08	3,741073E+08
1594	8,194038E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195744E+06	3,740845E+08	9,999075E+08	1,365978E+09	1,365994E+09	9,999620E+08	3,741725E+08
1595	8,199681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199084E+06	3,741694E+08	9,999773E+08	1,366023E+09	1,365999E+09	9,999128E+08	3,740852E+08
1596	8,196124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,192577E+06	3,741037E+08	9,999102E+08	1,365981E+09	1,366005E+09	9,999582E+08	3,741438E+08
1597	8,194278E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198398E+06	3,741100E+08	9,999151E+08	1,365960E+09	1,365969E+09	9,999376E+08	3,741459E+08
1598	8,200225E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197602E+06	3,741657E+08	9,999537E+08	1,365976E+09	1,365942E+09	9,998695E+08	3,740658E+08
1599	8,193444E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194852E+06	3,740716E+08	9,998539E+08	1,365913E+09	1,365929E+09	9,999039E+08	3,741433E+08
1600	8,197556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199933E+06	3,741138E+08	9,998650E+08	1,365872E+09	1,365858E+09	9,998323E+08	3,740837E+08
1601	8,199641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196167E+06	3,741015E+08	9,998249E+08	1,365825E+09	1,365810E+09	9,997851E+08	3,740521E+08
1602	8,194290E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196006E+06	3,740199E+08	9,997307E+08	1,365743E+09	1,365770E+09	9,998023E+08	3,741155E+08
1603	8,201447E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200853E+06	3,740968E+08	9,997716E+08	1,365729E+09	1,365706E+09	9,997077E+08	3,740168E+08
1604	8,197394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196710E+06	3,740495E+08	9,997115E+08	1,365679E+09	1,365677E+09	9,997062E+08	3,740444E+08
1605	8,196430E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198296E+06	3,740179E+08	9,996891E+08	1,365661E+09	1,365667E+09	9,997153E+08	3,740747E+08
1606	8,201781E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201415E+06	3,740902E+08	9,997441E+08	1,365695E+09	1,365664E+09	9,996630E+08	3,739916E+08
1607	8,196124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195386E+06	3,740090E+08	9,996724E+08	1,365674E+09	1,365699E+09	9,997361E+08	3,740748E+08
1608	8,198381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200271E+06	3,740460E+08	9,997136E+08	1,365685E+09	1,365694E+09	9,997302E+08	3,740585E+08



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	8,200067E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198810E+06	3,740902E+08	9,997613E+08	1,365728E+09	1,365715E+09	9,997195E+08	3,740216E+08
1610	8,195420E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195000E+06	3,740235E+08	9,997340E+08	1,365746E+09	1,365773E+09	9,998091E+08	3,741174E+08
1611	8,198999E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201528E+06	3,741077E+08	9,998267E+08	1,365813E+09	1,365795E+09	9,997815E+08	3,740579E+08
1612	8,198967E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194889E+06	3,740946E+08	9,998282E+08	1,365839E+09	1,365831E+09	9,998091E+08	3,740730E+08
1613	8,195052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196337E+06	3,740467E+08	9,998066E+08	1,365847E+09	1,365868E+09	9,998676E+08	3,741345E+08
1614	8,200055E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200276E+06	3,741372E+08	9,998764E+08	1,365881E+09	1,365862E+09	9,998177E+08	3,740488E+08
1615	8,196421E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,194326E+06	3,740785E+08	9,998267E+08	1,365860E+09	1,365872E+09	9,998577E+08	3,741067E+08
1616	8,194711E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199382E+06	3,740784E+08	9,998265E+08	1,365836E+09	1,365838E+09	9,998382E+08	3,741094E+08
1617	8,200845E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198043E+06	3,741233E+08	9,998436E+08	1,365830E+09	1,365799E+09	9,997664E+08	3,740322E+08
1618	8,194819E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195216E+06	3,740285E+08	9,997422E+08	1,365759E+09	1,365781E+09	9,998020E+08	3,741086E+08
1619	8,198940E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200097E+06	3,740638E+08	9,997421E+08	1,365714E+09	1,365707E+09	9,997263E+08	3,740477E+08
1620	8,200779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197513E+06	3,740647E+08	9,997050E+08	1,365652E+09	1,365637E+09	9,996607E+08	3,740066E+08
1621	8,195045E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197243E+06	3,739866E+08	9,996274E+08	1,365589E+09	1,365607E+09	9,996801E+08	3,740681E+08
1622	8,201606E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202350E+06	3,740637E+08	9,996731E+08	1,365587E+09	1,365556E+09	9,995957E+08	3,739762E+08
1623	8,197969E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197898E+06	3,740155E+08	9,996221E+08	1,365564E+09	1,365553E+09	9,996056E+08	3,740073E+08
1624	8,197371E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198729E+06	3,739776E+08	9,995891E+08	1,365537E+09	1,365550E+09	9,996281E+08	3,740413E+08
1625	8,202422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201731E+06	3,740459E+08	9,996282E+08	1,365548E+09	1,365530E+09	9,995742E+08	3,739630E+08
1626	8,197378E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195938E+06	3,739769E+08	9,995759E+08	1,365531E+09	1,365563E+09	9,996490E+08	3,740473E+08
1627	8,199358E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200766E+06	3,740121E+08	9,996261E+08	1,365561E+09	1,365567E+09	9,996422E+08	3,740325E+08
1628	8,201255E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199681E+06	3,740628E+08	9,996783E+08	1,365607E+09	1,365585E+09	9,996201E+08	3,739883E+08
1629	8,196476E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195506E+06	3,739921E+08	9,996536E+08	1,365637E+09	1,365660E+09	9,997169E+08	3,740809E+08
1630	8,199382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202269E+06	3,740729E+08	9,997352E+08	1,365695E+09	1,365680E+09	9,996973E+08	3,740254E+08
1631	8,199568E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196019E+06	3,740641E+08	9,997423E+08	1,365729E+09	1,365718E+09	9,997216E+08	3,740372E+08
1632	8,195222E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197497E+06	3,740178E+08	9,997149E+08	1,365718E+09	1,365744E+09	9,997779E+08	3,740985E+08
1633	8,200139E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201122E+06	3,741037E+08	9,997773E+08	1,365738E+09	1,365717E+09	9,997174E+08	3,740162E+08
1634	8,197327E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195271E+06	3,740467E+08	9,997338E+08	1,365720E+09	1,365727E+09	9,997559E+08	3,740744E+08
1635	8,195992E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199459E+06	3,740319E+08	9,997173E+08	1,365697E+09	1,365699E+09	9,997363E+08	3,740777E+08
1636	8,202471E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198771E+06	3,740796E+08	9,997229E+08	1,365668E+09	1,365640E+09	9,996489E+08	3,739911E+08
1637	8,196018E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196033E+06	3,739864E+08	9,996244E+08	1,365598E+09	1,365621E+09	9,996819E+08	3,740606E+08
1638	8,199260E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201508E+06	3,740286E+08	9,996319E+08	1,365555E+09	1,365547E+09	9,996112E+08	3,740045E+08
1639	8,201106E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199355E+06	3,740372E+08	9,996196E+08	1,365528E+09	1,365495E+09	9,995475E+08	3,739638E+08
1640	8,195608E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198253E+06	3,739533E+08	9,995359E+08	1,365466E+09	1,365479E+09	9,995798E+08	3,740303E+08
1641	8,202260E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202755E+06	3,740195E+08	9,995636E+08	1,365449E+09	1,365424E+09	9,995020E+08	3,739474E+08
1642	8,199554E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198201E+06	3,739722E+08	9,995111E+08	1,365418E+09	1,365421E+09	9,995186E+08	3,739797E+08
1643	8,198902E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198684E+06	3,739285E+08	9,994698E+08	1,365389E+09	1,365416E+09	9,995388E+08	3,740133E+08
1644	8,203570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202742E+06	3,740111E+08	9,995176E+08	1,365389E+09	1,365375E+09	9,994665E+08	3,739262E+08

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	8,198220E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196780E+06	3,739482E+08	9,994882E+08	1,365398E+09	1,365418E+09	9,995388E+08	3,740053E+08
1646	8,199424E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202003E+06	3,739848E+08	9,995457E+08	1,365446E+09	1,365440E+09	9,995430E+08	3,739972E+08
1647	8,201834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200787E+06	3,740370E+08	9,996087E+08	1,365516E+09	1,365480E+09	9,995301E+08	3,739532E+08
1648	8,197077E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196300E+06	3,739619E+08	9,995717E+08	1,365534E+09	1,365560E+09	9,996389E+08	3,740477E+08
1649	8,199610E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202906E+06	3,740379E+08	9,996372E+08	1,365565E+09	1,365561E+09	9,996172E+08	3,739981E+08
1650	8,200440E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196950E+06	3,740369E+08	9,996547E+08	1,365598E+09	1,365594E+09	9,996402E+08	3,740095E+08
1651	8,196016E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197971E+06	3,739823E+08	9,996239E+08	1,365595E+09	1,365618E+09	9,996890E+08	3,740715E+08
1652	8,201400E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201810E+06	3,740674E+08	9,996766E+08	1,365599E+09	1,365574E+09	9,996097E+08	3,739808E+08
1653	8,198590E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,195789E+06	3,740066E+08	9,996310E+08	1,365583E+09	1,365586E+09	9,996447E+08	3,740325E+08
1654	8,196728E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200271E+06	3,739895E+08	9,996027E+08	1,365546E+09	1,365551E+09	9,996275E+08	3,740380E+08
1655	8,203293E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200140E+06	3,740430E+08	9,996170E+08	1,365525E+09	1,365491E+09	9,995352E+08	3,739472E+08
1656	8,196429E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197409E+06	3,739537E+08	9,995204E+08	1,365449E+09	1,365471E+09	9,995710E+08	3,740160E+08
1657	8,199489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202407E+06	3,739901E+08	9,995229E+08	1,365400E+09	1,365389E+09	9,994980E+08	3,739671E+08
1658	8,202129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200233E+06	3,739988E+08	9,995153E+08	1,365384E+09	1,365352E+09	9,994448E+08	3,739305E+08
1659	8,197281E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198216E+06	3,739030E+08	9,994188E+08	1,365324E+09	1,365345E+09	9,994831E+08	3,740005E+08
1660	8,203991E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203324E+06	3,739714E+08	9,994361E+08	1,365284E+09	1,365269E+09	9,993932E+08	3,739113E+08
1661	8,200950E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198974E+06	3,739326E+08	9,993971E+08	1,365261E+09	1,365267E+09	9,994072E+08	3,739373E+08
1662	8,199248E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200143E+06	3,738987E+08	9,993699E+08	1,365242E+09	1,365266E+09	9,994328E+08	3,739746E+08
1663	8,203751E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204458E+06	3,739904E+08	9,994483E+08	1,365282E+09	1,365247E+09	9,993637E+08	3,738863E+08
1664	8,198458E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197917E+06	3,739262E+08	9,994196E+08	1,365302E+09	1,365314E+09	9,994514E+08	3,739682E+08
1665	8,199497E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202567E+06	3,739526E+08	9,994627E+08	1,365338E+09	1,365335E+09	9,994644E+08	3,739699E+08
1666	8,202847E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201204E+06	3,740045E+08	9,995220E+08	1,365404E+09	1,365379E+09	9,994613E+08	3,739294E+08
1667	8,198293E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196446E+06	3,739225E+08	9,994729E+08	1,365412E+09	1,365449E+09	9,995648E+08	3,740240E+08
1668	8,200636E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203662E+06	3,740042E+08	9,995359E+08	1,365421E+09	1,365420E+09	9,995203E+08	3,739667E+08
1669	8,201461E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197634E+06	3,740046E+08	9,995640E+08	1,365465E+09	1,365451E+09	9,995327E+08	3,739706E+08
1670	8,196386E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198887E+06	3,739471E+08	9,995259E+08	1,365463E+09	1,365480E+09	9,995847E+08	3,740355E+08
1671	8,202380E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202692E+06	3,740318E+08	9,995839E+08	1,365478E+09	1,365443E+09	9,995039E+08	3,739405E+08
1672	8,199305E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,196794E+06	3,739696E+08	9,995250E+08	1,365444E+09	1,365451E+09	9,995409E+08	3,739895E+08
1673	8,197169E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201109E+06	3,739502E+08	9,994880E+08	1,365388E+09	1,365399E+09	9,995203E+08	3,740004E+08
1674	8,204174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201440E+06	3,740112E+08	9,995142E+08	1,365374E+09	1,365342E+09	9,994330E+08	3,739123E+08
1675	8,197577E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197977E+06	3,739129E+08	9,994164E+08	1,365310E+09	1,365330E+09	9,994687E+08	3,739836E+08
1676	8,200997E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203023E+06	3,739472E+08	9,994088E+08	1,365248E+09	1,365238E+09	9,993867E+08	3,739311E+08
1677	8,203634E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200746E+06	3,739528E+08	9,993996E+08	1,365234E+09	1,365205E+09	9,993336E+08	3,738892E+08
1678	8,198177E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199108E+06	3,738592E+08	9,992959E+08	1,365165E+09	1,365194E+09	9,993764E+08	3,739612E+08
1679	8,204641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204810E+06	3,739376E+08	9,993322E+08	1,365139E+09	1,365119E+09	9,992808E+08	3,738666E+08
1680	8,201008E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200599E+06	3,739078E+08	9,993056E+08	1,365122E+09	1,365122E+09	9,992992E+08	3,738927E+08

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												
1681	8,199095E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201220E+06	3,738710E+08	9,992843E+08	1,365113E+09	1,365127E+09	9,993298E+08	3,739395E+08
1682	8,204360E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205248E+06	3,739617E+08	9,993678E+08	1,365171E+09	1,365137E+09	9,992820E+08	3,738598E+08
1683	8,199984E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197705E+06	3,738861E+08	9,993298E+08	1,365196E+09	1,365215E+09	9,993791E+08	3,739451E+08
1684	8,200957E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202830E+06	3,739124E+08	9,993590E+08	1,365208E+09	1,365216E+09	9,993814E+08	3,739425E+08
1685	8,204137E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201551E+06	3,739694E+08	9,994270E+08	1,365275E+09	1,365255E+09	9,993713E+08	3,738954E+08
1686	8,198672E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197647E+06	3,738946E+08	9,993827E+08	1,365282E+09	1,365319E+09	9,994729E+08	3,739914E+08
1687	8,201070E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204811E+06	3,739778E+08	9,994606E+08	1,365312E+09	1,365295E+09	9,994213E+08	3,739294E+08
1688	8,201910E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198709E+06	3,739764E+08	9,994796E+08	1,365349E+09	1,365332E+09	9,994382E+08	3,739323E+08
1689	8,196743E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199512E+06	3,739092E+08	9,994229E+08	1,365325E+09	1,365347E+09	9,994876E+08	3,740012E+08
1690	8,203391E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203393E+06	3,739933E+08	9,994739E+08	1,365332E+09	1,365311E+09	9,994128E+08	3,739086E+08
1691	8,200518E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,197366E+06	3,739284E+08	9,994111E+08	1,365293E+09	1,365308E+09	9,994413E+08	3,739546E+08
1692	8,198246E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201989E+06	3,739121E+08	9,993738E+08	1,365222E+09	1,365232E+09	9,994015E+08	3,739597E+08
1693	8,205173E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202316E+06	3,739730E+08	9,994113E+08	1,365226E+09	1,365182E+09	9,993098E+08	3,738682E+08
1694	8,198259E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199086E+06	3,738727E+08	9,993042E+08	1,365162E+09	1,365178E+09	9,993544E+08	3,739435E+08
1695	8,202159E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204015E+06	3,739066E+08	9,993027E+08	1,365107E+09	1,365093E+09	9,992740E+08	3,738873E+08
1696	8,204232E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202195E+06	3,739157E+08	9,992861E+08	1,365081E+09	1,365060E+09	9,992271E+08	3,738451E+08
1697	8,198469E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200206E+06	3,738243E+08	9,991838E+08	1,365006E+09	1,365040E+09	9,992688E+08	3,739223E+08
1698	8,205098E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206057E+06	3,739085E+08	9,992377E+08	1,365000E+09	1,364983E+09	9,991857E+08	3,738347E+08
1699	8,202105E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200943E+06	3,738731E+08	9,992184E+08	1,365006E+09	1,365002E+09	9,992096E+08	3,738639E+08
1700	8,200464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201452E+06	3,738338E+08	9,991913E+08	1,364991E+09	1,365005E+09	9,992383E+08	3,739103E+08
1701	8,205768E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205286E+06	3,739221E+08	9,992760E+08	1,365055E+09	1,365022E+09	9,991956E+08	3,738296E+08
1702	8,200999E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198294E+06	3,738487E+08	9,992288E+08	1,365069E+09	1,365099E+09	9,992982E+08	3,739155E+08
1703	8,201577E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203930E+06	3,738842E+08	9,992736E+08	1,365085E+09	1,365093E+09	9,992909E+08	3,739056E+08
1704	8,204117E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202892E+06	3,739459E+08	9,993442E+08	1,365151E+09	1,365127E+09	9,992773E+08	3,738559E+08
1705	8,198466E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198663E+06	3,738671E+08	9,992968E+08	1,365156E+09	1,365186E+09	9,993744E+08	3,739573E+08
1706	8,201645E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205490E+06	3,739452E+08	9,993689E+08	1,365191E+09	1,365179E+09	9,993359E+08	3,739013E+08
1707	8,203378E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198781E+06	3,739348E+08	9,993777E+08	1,365222E+09	1,365211E+09	9,993515E+08	3,739037E+08
1708	8,198188E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200012E+06	3,738681E+08	9,993099E+08	1,365172E+09	1,365201E+09	9,993847E+08	3,739660E+08
1709	8,204584E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204038E+06	3,739568E+08	9,993701E+08	1,365182E+09	1,365158E+09	9,993020E+08	3,738688E+08
1710	8,200987E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198788E+06	3,738964E+08	9,993114E+08	1,365149E+09	1,365158E+09	9,993307E+08	3,739140E+08
1711	8,198919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203193E+06	3,738809E+08	9,992859E+08	1,365095E+09	1,365089E+09	9,992874E+08	3,739148E+08
1712	8,205525E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203623E+06	3,739377E+08	9,993104E+08	1,365091E+09	1,365047E+09	9,992041E+08	3,738249E+08
1713	8,198758E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199923E+06	3,738307E+08	9,991872E+08	1,365007E+09	1,365030E+09	9,992489E+08	3,739064E+08
1714	8,203258E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204791E+06	3,738627E+08	9,991784E+08	1,364948E+09	1,364951E+09	9,991779E+08	3,738547E+08
1715	8,205487E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202851E+06	3,738732E+08	9,991676E+08	1,364921E+09	1,364908E+09	9,991248E+08	3,738112E+08
1716	8,199673E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200793E+06	3,737862E+08	9,990736E+08	1,364843E+09	1,364874E+09	9,991520E+08	3,738836E+08

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude ⊙	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												
1717	8,206100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206463E+06	3,738706E+08	9,991435E+08	1,364866E+09	1,364837E+09	9,990736E+08	3,737973E+08
1718	8,203023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201633E+06	3,738365E+08	9,991224E+08	1,364882E+09	1,364876E+09	9,991129E+08	3,738295E+08
1719	8,201581E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202221E+06	3,738000E+08	9,991045E+08	1,364875E+09	1,364886E+09	9,991451E+08	3,738720E+08
1720	8,206081E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206612E+06	3,738931E+08	9,991846E+08	1,364931E+09	1,364906E+09	9,991113E+08	3,737931E+08
1721	8,201101E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199566E+06	3,738237E+08	9,991395E+08	1,364937E+09	1,364969E+09	9,992095E+08	3,738826E+08
1722	8,201643E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205041E+06	3,738586E+08	9,991916E+08	1,364969E+09	1,364980E+09	9,992123E+08	3,738793E+08
1723	8,205032E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203193E+06	3,739136E+08	9,992626E+08	1,365042E+09	1,365017E+09	9,991974E+08	3,738304E+08
1724	8,199625E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,198845E+06	3,738299E+08	9,992019E+08	1,365028E+09	1,365059E+09	9,992816E+08	3,739273E+08
1725	8,202938E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205440E+06	3,739041E+08	9,992718E+08	1,365062E+09	1,365049E+09	9,992398E+08	3,738691E+08
1726	8,204381E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199671E+06	3,738976E+08	9,992707E+08	1,365079E+09	1,365074E+09	9,992526E+08	3,738675E+08
1727	8,198915E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201363E+06	3,738398E+08	9,992190E+08	1,365033E+09	1,365053E+09	9,992730E+08	3,739199E+08
1728	8,204507E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205622E+06	3,739298E+08	9,992799E+08	1,365044E+09	1,365011E+09	9,991916E+08	3,738241E+08
1729	8,201015E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200005E+06	3,738624E+08	9,992118E+08	1,365008E+09	1,365010E+09	9,992198E+08	3,738745E+08
1730	8,199768E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203766E+06	3,738378E+08	9,991731E+08	1,364955E+09	1,364961E+09	9,991931E+08	3,738835E+08
1731	8,207158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203869E+06	3,738871E+08	9,991869E+08	1,364939E+09	1,364908E+09	9,991080E+08	3,737938E+08
1732	8,200386E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200391E+06	3,737838E+08	9,990570E+08	1,364830E+09	1,364863E+09	9,991351E+08	3,738692E+08
1733	8,204654E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205361E+06	3,738216E+08	9,990650E+08	1,364784E+09	1,364782E+09	9,990590E+08	3,738152E+08
1734	8,206158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204129E+06	3,738385E+08	9,990645E+08	1,364772E+09	1,364752E+09	9,990104E+08	3,737716E+08
1735	8,200641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201840E+06	3,737573E+08	9,989916E+08	1,364721E+09	1,364736E+09	9,990405E+08	3,738385E+08
1736	8,206237E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207708E+06	3,738394E+08	9,990551E+08	1,364747E+09	1,364716E+09	9,989789E+08	3,737581E+08
1737	8,203399E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202482E+06	3,738022E+08	9,990261E+08	1,364755E+09	1,364755E+09	9,990249E+08	3,737962E+08
1738	8,202177E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203138E+06	3,737664E+08	9,990051E+08	1,364751E+09	1,364779E+09	9,990709E+08	3,738454E+08
1739	8,206856E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207230E+06	3,738599E+08	9,990916E+08	1,364804E+09	1,364786E+09	9,990317E+08	3,737669E+08
1740	8,201981E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200025E+06	3,737924E+08	9,990502E+08	1,364803E+09	1,364830E+09	9,991124E+08	3,738527E+08
1741	8,202569E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205095E+06	3,738219E+08	9,991056E+08	1,364849E+09	1,364849E+09	9,991151E+08	3,738497E+08
1742	8,206112E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203624E+06	3,738762E+08	9,991675E+08	1,364920E+09	1,364896E+09	9,991062E+08	3,737999E+08
1743	8,200859E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,199653E+06	3,737981E+08	9,991146E+08	1,364906E+09	1,364932E+09	9,991825E+08	3,738859E+08
1744	8,203137E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206759E+06	3,738752E+08	9,991793E+08	1,364931E+09	1,364919E+09	9,991430E+08	3,738288E+08
1745	8,204480E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201120E+06	3,738713E+08	9,991806E+08	1,364943E+09	1,364933E+09	9,991502E+08	3,738289E+08
1746	8,199190E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202528E+06	3,738090E+08	9,991276E+08	1,364910E+09	1,364931E+09	9,991817E+08	3,738884E+08
1747	8,205639E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206003E+06	3,738893E+08	9,991810E+08	1,364918E+09	1,364886E+09	9,991007E+08	3,737952E+08
1748	8,202485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200307E+06	3,738155E+08	9,990937E+08	1,364853E+09	1,364861E+09	9,991150E+08	3,738415E+08
1749	8,201478E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203698E+06	3,737858E+08	9,990478E+08	1,364793E+09	1,364804E+09	9,990842E+08	3,738484E+08
1750	8,208371E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204959E+06	3,738418E+08	9,990565E+08	1,364765E+09	1,364743E+09	9,989927E+08	3,737533E+08
1751	8,201298E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201861E+06	3,737523E+08	9,989513E+08	1,364665E+09	1,364687E+09	9,990028E+08	3,738156E+08
1752	8,204510E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207041E+06	3,737926E+08	9,989701E+08	1,364637E+09	1,364620E+09	9,989344E+08	3,737663E+08



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												
1753	8,206150E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205522E+06	3,738073E+08	9,989704E+08	1,364638E+09	1,364606E+09	9,988964E+08	3,737297E+08
1754	8,201380E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202592E+06	3,737201E+08	9,988930E+08	1,364602E+09	1,364626E+09	9,989547E+08	3,738079E+08
1755	8,207475E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208156E+06	3,737987E+08	9,989541E+08	1,364623E+09	1,364604E+09	9,989028E+08	3,737337E+08
1756	8,204786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202824E+06	3,737635E+08	9,989201E+08	1,364613E+09	1,364622E+09	9,989366E+08	3,737680E+08
1757	8,203307E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203395E+06	3,737311E+08	9,989139E+08	1,364621E+09	1,364645E+09	9,989796E+08	3,738170E+08
1758	8,207538E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207984E+06	3,738271E+08	9,990035E+08	1,364684E+09	1,364662E+09	9,989408E+08	3,737372E+08
1759	8,202993E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200781E+06	3,737665E+08	9,989764E+08	1,364694E+09	1,364708E+09	9,990134E+08	3,738130E+08
1760	8,202717E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206104E+06	3,737926E+08	9,990232E+08	1,364737E+09	1,364734E+09	9,990259E+08	3,738147E+08
1761	8,206622E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204566E+06	3,738444E+08	9,990747E+08	1,364795E+09	1,364773E+09	9,990169E+08	3,737667E+08
1762	8,201410E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,200788E+06	3,737669E+08	9,990179E+08	1,364783E+09	1,364821E+09	9,991010E+08	3,738550E+08
1763	8,203836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207512E+06	3,738431E+08	9,990873E+08	1,364802E+09	1,364792E+09	9,990546E+08	3,737988E+08
1764	8,205336E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201657E+06	3,738347E+08	9,990828E+08	1,364804E+09	1,364786E+09	9,990441E+08	3,737947E+08
1765	8,200346E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202570E+06	3,737650E+08	9,990243E+08	1,364773E+09	1,364786E+09	9,990753E+08	3,738554E+08
1766	8,207023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206455E+06	3,738407E+08	9,990601E+08	1,364766E+09	1,364741E+09	9,989955E+08	3,737607E+08
1767	8,204015E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201491E+06	3,737770E+08	9,989798E+08	1,364691E+09	1,364699E+09	9,989943E+08	3,737941E+08
1768	8,201952E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205312E+06	3,737512E+08	9,989324E+08	1,364627E+09	1,364637E+09	9,989633E+08	3,738009E+08
1769	8,208483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206745E+06	3,738110E+08	9,989510E+08	1,364605E+09	1,364574E+09	9,988697E+08	3,737077E+08
1770	8,201633E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203154E+06	3,737201E+08	9,988551E+08	1,364536E+09	1,364555E+09	9,988975E+08	3,737767E+08
1771	8,205419E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207491E+06	3,737534E+08	9,988744E+08	1,364515E+09	1,364498E+09	9,988409E+08	3,737352E+08
1772	8,207445E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205624E+06	3,737621E+08	9,988631E+08	1,364501E+09	1,364474E+09	9,988016E+08	3,737001E+08
1773	8,203160E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202450E+06	3,736733E+08	9,987826E+08	1,364463E+09	1,364492E+09	9,988646E+08	3,737799E+08
1774	8,208646E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208986E+06	3,737580E+08	9,988412E+08	1,364476E+09	1,364469E+09	9,988116E+08	3,737037E+08
1775	8,205838E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204011E+06	3,737377E+08	9,988317E+08	1,364473E+09	1,364476E+09	9,988287E+08	3,737251E+08
1776	8,203210E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204705E+06	3,737047E+08	9,988302E+08	1,364498E+09	1,364511E+09	9,988768E+08	3,737772E+08
1777	8,207588E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208968E+06	3,737970E+08	9,989174E+08	1,364567E+09	1,364538E+09	9,988440E+08	3,737016E+08
1778	8,203632E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201510E+06	3,737339E+08	9,988877E+08	1,364588E+09	1,364610E+09	9,989343E+08	3,737831E+08
1779	8,203652E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206743E+06	3,737593E+08	9,989334E+08	1,364622E+09	1,364627E+09	9,989496E+08	3,737887E+08
1780	8,207701E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205170E+06	3,738123E+08	9,989801E+08	1,364661E+09	1,364641E+09	9,989261E+08	3,737373E+08
1781	8,202422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201299E+06	3,737345E+08	9,989314E+08	1,364656E+09	1,364686E+09	9,990072E+08	3,738249E+08
1782	8,204697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208222E+06	3,738071E+08	9,989932E+08	1,364677E+09	1,364663E+09	9,989596E+08	3,737676E+08
1783	8,206541E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202581E+06	3,738016E+08	9,989888E+08	1,364672E+09	1,364648E+09	9,989340E+08	3,737508E+08
1784	8,200752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203589E+06	3,737261E+08	9,989158E+08	1,364630E+09	1,364645E+09	9,989685E+08	3,738142E+08
1785	8,207718E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207628E+06	3,737996E+08	9,989402E+08	1,364606E+09	1,364586E+09	9,988831E+08	3,737189E+08
1786	8,204558E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202981E+06	3,737401E+08	9,988629E+08	1,364537E+09	1,364552E+09	9,988850E+08	3,737532E+08
1787	8,202743E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206289E+06	3,737165E+08	9,988289E+08	1,364475E+09	1,364481E+09	9,988517E+08	3,737630E+08
1788	8,209376E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207299E+06	3,737696E+08	9,988432E+08	1,364453E+09	1,364414E+09	9,987515E+08	3,736706E+08

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°
1789	8,203135E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203083E+06	3,736737E+08	9,987479E+08	1,364397E+09	1,364410E+09	9,987914E+08	3,737427E+08
1790	8,206964E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207823E+06	3,737048E+08	9,987567E+08	1,364372E+09	1,364366E+09	9,987450E+08	3,737035E+08
1791	8,208973E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206668E+06	3,737259E+08	9,987560E+08	1,364354E+09	1,364331E+09	9,986955E+08	3,736574E+08
1792	8,203625E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203931E+06	3,736438E+08	9,986826E+08	1,364320E+09	1,364351E+09	9,987629E+08	3,737397E+08
1793	8,208653E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210541E+06	3,737308E+08	9,987511E+08	1,364342E+09	1,364330E+09	9,987105E+08	3,736664E+08
1794	8,206097E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205149E+06	3,737105E+08	9,987503E+08	1,364368E+09	1,364369E+09	9,987425E+08	3,736927E+08
1795	8,203852E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205252E+06	3,736743E+08	9,987499E+08	1,364393E+09	1,364408E+09	9,987994E+08	3,737508E+08
1796	8,208539E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208973E+06	3,737588E+08	9,988239E+08	1,364446E+09	1,364423E+09	9,987626E+08	3,736767E+08
1797	8,205125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,201553E+06	3,736966E+08	9,987939E+08	1,364466E+09	1,364490E+09	9,988528E+08	3,737561E+08
1798	8,204572E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207532E+06	3,737250E+08	9,988353E+08	1,364490E+09	1,364501E+09	9,988614E+08	3,737583E+08
1799	8,208601E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206299E+06	3,737887E+08	9,988989E+08	1,364531E+09	1,364499E+09	9,988179E+08	3,736945E+08
1800	8,202485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202582E+06	3,737059E+08	9,988444E+08	1,364531E+09	1,364550E+09	9,989003E+08	3,737840E+08
1801	8,205085E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209043E+06	3,737690E+08	9,988912E+08	1,364543E+09	1,364529E+09	9,988562E+08	3,737299E+08
1802	8,207388E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203549E+06	3,737608E+08	9,988783E+08	1,364539E+09	1,364527E+09	9,988410E+08	3,737160E+08
1803	8,201845E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204387E+06	3,736866E+08	9,988013E+08	1,364480E+09	1,364505E+09	9,988709E+08	3,737805E+08
1804	8,208843E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208242E+06	3,737584E+08	9,988231E+08	1,364441E+09	1,364422E+09	9,987695E+08	3,736826E+08
1805	8,205735E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203601E+06	3,737013E+08	9,987579E+08	1,364384E+09	1,364389E+09	9,987692E+08	3,737148E+08
1806	8,203928E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206898E+06	3,736747E+08	9,987208E+08	1,364332E+09	1,364334E+09	9,987402E+08	3,737249E+08
1807	8,210628E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208284E+06	3,737333E+08	9,987405E+08	1,364308E+09	1,364265E+09	9,986353E+08	3,736253E+08
1808	8,203853E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204177E+06	3,736346E+08	9,986379E+08	1,364252E+09	1,364269E+09	9,986861E+08	3,737010E+08
1809	8,207580E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209146E+06	3,736663E+08	9,986413E+08	1,364220E+09	1,364221E+09	9,986420E+08	3,736638E+08
1810	8,209286E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208316E+06	3,736940E+08	9,986513E+08	1,364216E+09	1,364201E+09	9,986000E+08	3,736197E+08
1811	8,204017E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205052E+06	3,736169E+08	9,985944E+08	1,364190E+09	1,364217E+09	9,986674E+08	3,737060E+08
1812	8,209082E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210871E+06	3,736945E+08	9,986586E+08	1,364214E+09	1,364194E+09	9,986113E+08	3,736358E+08
1813	8,207367E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204992E+06	3,736718E+08	9,986593E+08	1,364248E+09	1,364246E+09	9,986548E+08	3,736656E+08
1814	8,205257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205533E+06	3,736351E+08	9,986526E+08	1,364271E+09	1,364295E+09	9,987182E+08	3,737241E+08
1815	8,209850E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209883E+06	3,737311E+08	9,987341E+08	1,364316E+09	1,364294E+09	9,986680E+08	3,736398E+08
1816	8,205574E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,202884E+06	3,736730E+08	9,987118E+08	1,364344E+09	1,364364E+09	9,987590E+08	3,737184E+08
1817	8,204619E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208843E+06	3,736995E+08	9,987550E+08	1,364373E+09	1,364377E+09	9,987676E+08	3,737225E+08
1818	8,208872E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207193E+06	3,737576E+08	9,988161E+08	1,364430E+09	1,364397E+09	9,987337E+08	3,736614E+08
1819	8,203177E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203162E+06	3,736719E+08	9,987531E+08	1,364413E+09	1,364437E+09	9,988176E+08	3,737555E+08
1820	8,206254E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208901E+06	3,737213E+08	9,987755E+08	1,364396E+09	1,364391E+09	9,987622E+08	3,737014E+08
1821	8,208979E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203940E+06	3,737165E+08	9,987590E+08	1,364378E+09	1,364373E+09	9,987401E+08	3,736833E+08
1822	8,203076E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205291E+06	3,736471E+08	9,986837E+08	1,364314E+09	1,364343E+09	9,987578E+08	3,737411E+08
1823	8,209814E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209495E+06	3,737273E+08	9,987209E+08	1,364280E+09	1,364248E+09	9,986377E+08	3,736324E+08
1824	8,205984E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204911E+06	3,736667E+08	9,986571E+08	1,364241E+09	1,364233E+09	9,986439E+08	3,736659E+08

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	8,204519E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207871E+06	3,736342E+08	9,986108E+08	1,364188E+09	1,364190E+09	9,986276E+08	3,736810E+08
1826	8,211231E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209573E+06	3,736925E+08	9,986298E+08	1,364175E+09	1,364140E+09	9,985397E+08	3,735878E+08
1827	8,204765E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205410E+06	3,736011E+08	9,985312E+08	1,364107E+09	1,364134E+09	9,985934E+08	3,736676E+08
1828	8,208375E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209719E+06	3,736276E+08	9,985339E+08	1,364068E+09	1,364073E+09	9,985422E+08	3,736329E+08
1829	8,210358E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208838E+06	3,736581E+08	9,985560E+08	1,364079E+09	1,364060E+09	9,985043E+08	3,735901E+08
1830	8,205250E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205271E+06	3,735782E+08	9,984973E+08	1,364063E+09	1,364091E+09	9,985738E+08	3,736755E+08
1831	8,210240E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211294E+06	3,736603E+08	9,985673E+08	1,364086E+09	1,364065E+09	9,985128E+08	3,735997E+08
1832	8,208241E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205704E+06	3,736387E+08	9,985675E+08	1,364126E+09	1,364124E+09	9,985626E+08	3,736295E+08
1833	8,205817E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206722E+06	3,736050E+08	9,985589E+08	1,364144E+09	1,364172E+09	9,986283E+08	3,736883E+08
1834	8,209968E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211277E+06	3,737065E+08	9,986535E+08	1,364205E+09	1,364184E+09	9,985851E+08	3,736068E+08
1835	8,205921E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203964E+06	3,736500E+08	9,986371E+08	1,364233E+09	1,364248E+09	9,986740E+08	3,736873E+08
1836	8,205035E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208794E+06	3,736599E+08	9,986622E+08	1,364252E+09	1,364253E+09	9,986767E+08	3,736941E+08
1837	8,210188E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207075E+06	3,737140E+08	9,987130E+08	1,364297E+09	1,364270E+09	9,986470E+08	3,736342E+08
1838	8,204641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,203614E+06	3,736287E+08	9,986385E+08	1,364266E+09	1,364301E+09	9,987233E+08	3,737239E+08
1839	8,207581E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209942E+06	3,736877E+08	9,986655E+08	1,364233E+09	1,364229E+09	9,986470E+08	3,736586E+08
1840	8,209464E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205612E+06	3,736881E+08	9,986599E+08	1,364226E+09	1,364211E+09	9,986190E+08	3,736364E+08
1841	8,203339E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206832E+06	3,736169E+08	9,985881E+08	1,364172E+09	1,364189E+09	9,986383E+08	3,736937E+08
1842	8,209965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210738E+06	3,736924E+08	9,986264E+08	1,364160E+09	1,364121E+09	9,985333E+08	3,735913E+08
1843	8,206594E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205840E+06	3,736300E+08	9,985575E+08	1,364111E+09	1,364106E+09	9,985487E+08	3,736304E+08
1844	8,205616E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207884E+06	3,735845E+08	9,984903E+08	1,364036E+09	1,364048E+09	9,985300E+08	3,736497E+08
1845	8,212590E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210154E+06	3,736470E+08	9,985072E+08	1,364011E+09	1,363988E+09	9,984432E+08	3,735579E+08
1846	8,206193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206162E+06	3,735620E+08	9,984169E+08	1,363946E+09	1,363978E+09	9,984882E+08	3,736340E+08
1847	8,209542E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210538E+06	3,735927E+08	9,984311E+08	1,363913E+09	1,363908E+09	9,984218E+08	3,735907E+08
1848	8,210961E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209652E+06	3,736219E+08	9,984584E+08	1,363945E+09	1,363917E+09	9,983923E+08	3,735489E+08
1849	8,206060E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205980E+06	3,735422E+08	9,984000E+08	1,363935E+09	1,363964E+09	9,984752E+08	3,736367E+08
1850	8,210634E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212333E+06	3,736270E+08	9,984775E+08	1,363977E+09	1,363959E+09	9,984307E+08	3,735675E+08
1851	8,208893E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206920E+06	3,736164E+08	9,984896E+08	1,364014E+09	1,364013E+09	9,984842E+08	3,735995E+08
1852	8,206222E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207290E+06	3,735757E+08	9,984778E+08	1,364026E+09	1,364051E+09	9,985449E+08	3,736613E+08
1853	8,210717E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211707E+06	3,736756E+08	9,985740E+08	1,364092E+09	1,364069E+09	9,985075E+08	3,735829E+08
1854	8,207112E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,204264E+06	3,736147E+08	9,985478E+08	1,364117E+09	1,364136E+09	9,985926E+08	3,736606E+08
1855	8,206142E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209077E+06	3,736219E+08	9,985624E+08	1,364117E+09	1,364121E+09	9,985807E+08	3,736597E+08
1856	8,211094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207856E+06	3,736757E+08	9,986069E+08	1,364155E+09	1,364131E+09	9,985447E+08	3,735955E+08
1857	8,205190E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205095E+06	3,735963E+08	9,985314E+08	1,364113E+09	1,364149E+09	9,986124E+08	3,736796E+08
1858	8,207605E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211468E+06	3,736592E+08	9,985742E+08	1,364100E+09	1,364085E+09	9,985370E+08	3,736163E+08
1859	8,209695E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207062E+06	3,736615E+08	9,985743E+08	1,364096E+09	1,364067E+09	9,985086E+08	3,735955E+08
1860	8,203962E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206875E+06	3,735716E+08	9,984818E+08	1,364033E+09	1,364047E+09	9,985311E+08	3,736583E+08

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	8,211399E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210844E+06	3,736432E+08	9,985086E+08	1,364009E+09	1,363983E+09	9,984402E+08	3,735629E+08
1862	8,208451E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206322E+06	3,735807E+08	9,984297E+08	1,363949E+09	1,363959E+09	9,984491E+08	3,735984E+08
1863	8,207286E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208662E+06	3,735429E+08	9,983674E+08	1,363863E+09	1,363880E+09	9,984135E+08	3,736092E+08
1864	8,213378E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211564E+06	3,736114E+08	9,983995E+08	1,363853E+09	1,363824E+09	9,983227E+08	3,735143E+08
1865	8,206790E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207418E+06	3,735290E+08	9,983168E+08	1,363802E+09	1,363825E+09	9,983710E+08	3,735890E+08
1866	8,209781E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211601E+06	3,735590E+08	9,983421E+08	1,363797E+09	1,363784E+09	9,983223E+08	3,735528E+08
1867	8,211495E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210666E+06	3,735916E+08	9,983715E+08	1,363827E+09	1,363800E+09	9,983047E+08	3,735156E+08
1868	8,206867E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206194E+06	3,735034E+08	9,983017E+08	1,363809E+09	1,363844E+09	9,983902E+08	3,736067E+08
1869	8,211377E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213163E+06	3,735953E+08	9,983840E+08	1,363845E+09	1,363838E+09	9,983539E+08	3,735430E+08
1870	8,209964E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207652E+06	3,735878E+08	9,984056E+08	1,363892E+09	1,363891E+09	9,983988E+08	3,735709E+08
1871	8,206969E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207905E+06	3,735459E+08	9,983950E+08	1,363904E+09	1,363919E+09	9,984453E+08	3,736264E+08
1872	8,211310E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212192E+06	3,736397E+08	9,984849E+08	1,363975E+09	1,363946E+09	9,984103E+08	3,735475E+08
1873	8,207909E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205095E+06	3,735793E+08	9,984499E+08	1,363988E+09	1,364010E+09	9,984977E+08	3,736237E+08
1874	8,206546E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210198E+06	3,735881E+08	9,984667E+08	1,363993E+09	1,363999E+09	9,984902E+08	3,736253E+08
1875	8,211672E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209353E+06	3,736511E+08	9,985187E+08	1,364024E+09	1,363998E+09	9,984495E+08	3,735604E+08
1876	8,205656E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205783E+06	3,735625E+08	9,984389E+08	1,363980E+09	1,364007E+09	9,985083E+08	3,736435E+08
1877	8,208402E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211880E+06	3,736210E+08	9,984772E+08	1,363966E+09	1,363949E+09	9,984410E+08	3,735864E+08
1878	8,211192E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207316E+06	3,736174E+08	9,984683E+08	1,363960E+09	1,363935E+09	9,984106E+08	3,735636E+08
1879	8,205596E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207114E+06	3,735244E+08	9,983615E+08	1,363874E+09	1,363893E+09	9,984210E+08	3,736204E+08
1880	8,212707E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211690E+06	3,735961E+08	9,983823E+08	1,363844E+09	1,363824E+09	9,983260E+08	3,735223E+08
1881	8,209361E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208020E+06	3,735440E+08	9,983081E+08	1,363777E+09	1,363791E+09	9,983299E+08	3,735526E+08
1882	8,207593E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210203E+06	3,735101E+08	9,982654E+08	1,363716E+09	1,363722E+09	9,982959E+08	3,735646E+08
1883	8,213523E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213105E+06	3,735820E+08	9,983077E+08	1,363718E+09	1,363676E+09	9,982087E+08	3,734720E+08
1884	8,207327E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207589E+06	3,734873E+08	9,982144E+08	1,363668E+09	1,363686E+09	9,982645E+08	3,735509E+08
1885	8,210712E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212010E+06	3,735184E+08	9,982387E+08	1,363662E+09	1,363660E+09	9,982374E+08	3,735260E+08
1886	8,212983E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211276E+06	3,735554E+08	9,982726E+08	1,363697E+09	1,363678E+09	9,982211E+08	3,734885E+08
1887	8,208193E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207033E+06	3,734741E+08	9,982105E+08	1,363675E+09	1,363709E+09	9,982959E+08	3,735735E+08
1888	8,211936E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214256E+06	3,735675E+08	9,983037E+08	1,363729E+09	1,363713E+09	9,982597E+08	3,735098E+08
1889	8,210568E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208597E+06	3,735594E+08	9,983244E+08	1,363782E+09	1,363776E+09	9,983077E+08	3,735348E+08
1890	8,207129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208590E+06	3,735136E+08	9,983156E+08	1,363807E+09	1,363816E+09	9,983632E+08	3,735946E+08
1891	8,211814E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212938E+06	3,736075E+08	9,983980E+08	1,363862E+09	1,363835E+09	9,983287E+08	3,735170E+08
1892	8,208647E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,205383E+06	3,735396E+08	9,983453E+08	1,363852E+09	1,363880E+09	9,984065E+08	3,735921E+08
1893	8,207344E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211085E+06	3,735553E+08	9,983647E+08	1,363846E+09	1,363861E+09	9,984011E+08	3,735981E+08
1894	8,213023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210146E+06	3,736178E+08	9,984224E+08	1,363883E+09	1,363853E+09	9,983463E+08	3,735274E+08
1895	8,206791E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206338E+06	3,735239E+08	9,983369E+08	1,363836E+09	1,363854E+09	9,983906E+08	3,736023E+08
1896	8,209455E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212334E+06	3,735765E+08	9,983678E+08	1,363825E+09	1,363805E+09	9,983268E+08	3,735453E+08



Longitude ◉ Years	2	3	4	5	6	7	8	9	10	11	12	13
	0° - 30°	30° - 60°	60° - 90°	90° - 120°	120° - 150°	150° - 180°	180° - 210°	210° - 240°	240° - 270°	270° - 300°	300° - 330°	330° - 360°
1897	8,212199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208434E+06	3,735741E+08	9,983490E+08	1,363807E+09	1,363786E+09	9,982993E+08	3,735196E+08
1898	8,206189E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208530E+06	3,734872E+08	9,982508E+08	1,363727E+09	1,363745E+09	9,983124E+08	3,735786E+08
1899	8,213189E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213610E+06	3,735673E+08	9,982801E+08	1,363691E+09	1,363668E+09	9,982141E+08	3,734806E+08
1900	8,209754E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209129E+06	3,735082E+08	9,982042E+08	1,363627E+09	1,363632E+09	9,982135E+08	3,735113E+08
1901	8,208331E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210972E+06	3,734730E+08	9,981610E+08	1,363572E+09	1,363581E+09	9,981960E+08	3,735325E+08
1902	8,214876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213432E+06	3,735394E+08	9,982031E+08	1,363583E+09	1,363545E+09	9,981124E+08	3,734408E+08
1903	8,208883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207727E+06	3,734440E+08	9,981054E+08	1,363525E+09	1,363546E+09	9,981626E+08	3,735150E+08
1904	8,211806E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212741E+06	3,734793E+08	9,981338E+08	1,363525E+09	1,363526E+09	9,981379E+08	3,734905E+08
1905	8,213680E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212670E+06	3,735273E+08	9,981786E+08	1,363563E+09	1,363545E+09	9,981242E+08	3,734504E+08
1906	8,208420E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208325E+06	3,734502E+08	9,981374E+08	1,363568E+09	1,363588E+09	9,982027E+08	3,735376E+08
1907	8,211992E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215358E+06	3,735411E+08	9,982289E+08	1,363626E+09	1,363602E+09	9,981727E+08	3,734776E+08
1908	8,211215E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208550E+06	3,735198E+08	9,982304E+08	1,363666E+09	1,363663E+09	9,982233E+08	3,735048E+08
1909	8,208008E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208946E+06	3,734743E+08	9,982104E+08	1,363674E+09	1,363703E+09	9,982898E+08	3,735724E+08
1910	8,213364E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213339E+06	3,735705E+08	9,982966E+08	1,363727E+09	1,363710E+09	9,982447E+08	3,734911E+08
1911	8,209949E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,206236E+06	3,735094E+08	9,982502E+08	1,363709E+09	1,363732E+09	9,983007E+08	3,735552E+08
1912	8,208087E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212073E+06	3,735244E+08	9,982771E+08	1,363718E+09	1,363720E+09	9,982900E+08	3,735588E+08
1913	8,213700E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211311E+06	3,735865E+08	9,983307E+08	1,363757E+09	1,363719E+09	9,982402E+08	3,734855E+08
1914	8,207177E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207335E+06	3,734890E+08	9,982451E+08	1,363716E+09	1,363727E+09	9,982904E+08	3,735620E+08
1915	8,210027E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213451E+06	3,735397E+08	9,982639E+08	1,363688E+09	1,363672E+09	9,982277E+08	3,735070E+08
1916	8,212836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209380E+06	3,735310E+08	9,982273E+08	1,363647E+09	1,363635E+09	9,981919E+08	3,734799E+08
1917	8,206869E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209776E+06	3,734513E+08	9,981325E+08	1,363558E+09	1,363588E+09	9,982093E+08	3,735452E+08
1918	8,214492E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214359E+06	3,735275E+08	9,981718E+08	1,363537E+09	1,363508E+09	9,981001E+08	3,734445E+08
1919	8,211021E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209556E+06	3,734645E+08	9,980909E+08	1,363470E+09	1,363468E+09	9,980890E+08	3,734690E+08
1920	8,209695E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211220E+06	3,734267E+08	9,980476E+08	1,363426E+09	1,363433E+09	9,980800E+08	3,734919E+08
1921	8,215946E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214444E+06	3,734986E+08	9,980893E+08	1,363436E+09	1,363405E+09	9,980088E+08	3,734010E+08
1922	8,209641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208981E+06	3,734137E+08	9,980133E+08	1,363398E+09	1,363417E+09	9,980663E+08	3,734763E+08
1923	8,212061E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214464E+06	3,734572E+08	9,980546E+08	1,363406E+09	1,363402E+09	9,980463E+08	3,734552E+08
1924	8,213914E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213380E+06	3,734957E+08	9,980935E+08	1,363447E+09	1,363424E+09	9,980341E+08	3,734172E+08
1925	8,209018E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208917E+06	3,734186E+08	9,980477E+08	1,363451E+09	1,363482E+09	9,981303E+08	3,735148E+08
1926	8,213279E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215316E+06	3,735007E+08	9,981336E+08	1,363507E+09	1,363492E+09	9,980966E+08	3,734542E+08
1927	8,212681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208608E+06	3,734788E+08	9,981242E+08	1,363527E+09	1,363531E+09	9,981311E+08	3,734736E+08
1928	8,209048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209797E+06	3,734407E+08	9,981098E+08	1,363535E+09	1,363566E+09	9,981894E+08	3,735370E+08
1929	8,213892E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214794E+06	3,735452E+08	9,982054E+08	1,363589E+09	1,363568E+09	9,981408E+08	3,734511E+08
1930	8,210082E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,207679E+06	3,734878E+08	9,981799E+08	1,363598E+09	1,363599E+09	9,981937E+08	3,735120E+08
1931	8,208115E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213306E+06	3,734970E+08	9,981977E+08	1,363607E+09	1,363597E+09	9,981887E+08	3,735183E+08
1932	8,214158E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211645E+06	3,735444E+08	9,982266E+08	1,363626E+09	1,363593E+09	9,981432E+08	3,734485E+08

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												
1933	8,208012E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208205E+06	3,734486E+08	9,981272E+08	1,363565E+09	1,363598E+09	9,982055E+08	3,735345E+08
1934	8,211740E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213957E+06	3,734967E+08	9,981465E+08	1,363532E+09	1,363527E+09	9,981313E+08	3,734770E+08
1935	8,214254E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210289E+06	3,734905E+08	9,981104E+08	1,363479E+09	1,363466E+09	9,980735E+08	3,734410E+08
1936	8,208109E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210507E+06	3,734112E+08	9,980226E+08	1,363405E+09	1,363425E+09	9,980846E+08	3,735027E+08
1937	8,215422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215247E+06	3,734868E+08	9,980607E+08	1,363388E+09	1,363356E+09	9,979835E+08	3,734007E+08
1938	8,211697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210457E+06	3,734272E+08	9,979926E+08	1,363336E+09	1,363326E+09	9,979786E+08	3,734246E+08
1939	8,210297E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212367E+06	3,733914E+08	9,979459E+08	1,363290E+09	1,363299E+09	9,979788E+08	3,734513E+08
1940	8,216329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215498E+06	3,734619E+08	9,979811E+08	1,363290E+09	1,363267E+09	9,979116E+08	3,733644E+08
1941	8,210230E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210302E+06	3,733855E+08	9,979140E+08	1,363257E+09	1,363287E+09	9,979813E+08	3,734481E+08
1942	8,213128E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214910E+06	3,734222E+08	9,979661E+08	1,363284E+09	1,363277E+09	9,979574E+08	3,734276E+08
1943	8,215057E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213446E+06	3,734549E+08	9,979945E+08	1,363317E+09	1,363294E+09	9,979375E+08	3,733849E+08
1944	8,210243E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209015E+06	3,733782E+08	9,979469E+08	1,363322E+09	1,363356E+09	9,980349E+08	3,734821E+08
1945	8,214074E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216126E+06	3,734656E+08	9,980325E+08	1,363372E+09	1,363366E+09	9,980068E+08	3,734204E+08
1946	8,213262E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209962E+06	3,734572E+08	9,980473E+08	1,363407E+09	1,363403E+09	9,980360E+08	3,734352E+08
1947	8,209077E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211626E+06	3,734243E+08	9,980427E+08	1,363425E+09	1,363444E+09	9,980942E+08	3,734984E+08
1948	8,213899E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215588E+06	3,735171E+08	9,981268E+08	1,363479E+09	1,363450E+09	9,980481E+08	3,734164E+08
1949	8,210609E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208419E+06	3,734558E+08	9,980891E+08	1,363482E+09	1,363495E+09	9,981176E+08	3,734858E+08
1950	8,209526E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213086E+06	3,734521E+08	9,980961E+08	1,363482E+09	1,363482E+09	9,981079E+08	3,734925E+08
1951	8,215716E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211684E+06	3,734945E+08	9,981028E+08	1,363469E+09	1,363447E+09	9,980430E+08	3,734152E+08
1952	8,209382E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,209064E+06	3,734075E+08	9,980052E+08	1,363397E+09	1,363435E+09	9,980904E+08	3,734958E+08
1953	8,212694E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215244E+06	3,734600E+08	9,980304E+08	1,363362E+09	1,363356E+09	9,980103E+08	3,734330E+08
1954	8,214728E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211804E+06	3,734588E+08	9,980142E+08	1,363332E+09	1,363301E+09	9,979452E+08	3,733917E+08
1955	8,208521E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211748E+06	3,733767E+08	9,979225E+08	1,363265E+09	1,363275E+09	9,979634E+08	3,734538E+08
1956	8,215809E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215828E+06	3,734412E+08	9,979438E+08	1,363237E+09	1,363210E+09	9,978729E+08	3,733586E+08
1957	8,212408E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211630E+06	3,733899E+08	9,978770E+08	1,363185E+09	1,363193E+09	9,978880E+08	3,733929E+08
1958	8,211763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213092E+06	3,733554E+08	9,978439E+08	1,363148E+09	1,363163E+09	9,978865E+08	3,734206E+08
1959	8,217302E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216342E+06	3,734256E+08	9,978808E+08	1,363147E+09	1,363122E+09	9,978100E+08	3,733315E+08
1960	8,211442E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210913E+06	3,733520E+08	9,978223E+08	1,363130E+09	1,363154E+09	9,978806E+08	3,734147E+08
1961	8,213910E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215409E+06	3,733843E+08	9,978689E+08	1,363159E+09	1,363155E+09	9,978668E+08	3,733945E+08
1962	8,215735E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214079E+06	3,734218E+08	9,979095E+08	1,363201E+09	1,363173E+09	9,978460E+08	3,733485E+08
1963	8,210647E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,210165E+06	3,733502E+08	9,978596E+08	1,363202E+09	1,363236E+09	9,979444E+08	3,734446E+08
1964	8,214052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217090E+06	3,734367E+08	9,979416E+08	1,363242E+09	1,363238E+09	9,979168E+08	3,733866E+08
1965	8,213591E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211298E+06	3,734365E+08	9,979673E+08	1,363287E+09	1,363286E+09	9,979553E+08	3,734083E+08
1966	8,210125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211970E+06	3,733926E+08	9,979658E+08	1,363319E+09	1,363330E+09	9,980095E+08	3,734708E+08
1967	8,215047E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215378E+06	3,734731E+08	9,980266E+08	1,363353E+09	1,363326E+09	9,979559E+08	3,733865E+08
1968	8,212142E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,208569E+06	3,734115E+08	9,979796E+08	1,363344E+09	1,363363E+09	9,980207E+08	3,734530E+08



1 Longitude $\ominus$	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°
2005	8,216336E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217347E+06	3,734053E+08	9,978290E+08	1,363087E+09	1,363073E+09	9,977764E+08	3,733210E+08
2006	8,213812E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211099E+06	3,733496E+08	9,977860E+08	1,363068E+09	1,363084E+09	9,978201E+08	3,733782E+08
2007	8,211539E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215375E+06	3,733337E+08	9,977617E+08	1,363023E+09	1,363031E+09	9,977909E+08	3,733836E+08
2008	8,218312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215270E+06	3,733940E+08	9,977974E+08	1,363027E+09	1,362990E+09	9,977111E+08	3,733000E+08
2009	8,212012E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211805E+06	3,732970E+08	9,977018E+08	1,362970E+09	1,362986E+09	9,977505E+08	3,733704E+08
2010	8,215133E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216777E+06	3,733295E+08	9,976962E+08	1,362910E+09	1,362895E+09	9,976638E+08	3,733090E+08
2011	8,217438E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215057E+06	3,733397E+08	9,976724E+08	1,362875E+09	1,362855E+09	9,976166E+08	3,732715E+08
2012	8,211664E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213969E+06	3,732524E+08	9,975794E+08	1,362801E+09	1,362828E+09	9,976468E+08	3,733388E+08
2013	8,218183E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219444E+06	3,733303E+08	9,976209E+08	1,362788E+09	1,362764E+09	9,975532E+08	3,732490E+08
2014	8,215451E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214828E+06	3,732861E+08	9,975788E+08	1,362769E+09	1,362762E+09	9,975670E+08	3,732780E+08
2015	8,214070E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214659E+06	3,732327E+08	9,975242E+08	1,362725E+09	1,362744E+09	9,975817E+08	3,733149E+08
2016	8,219654E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218786E+06	3,733165E+08	9,975848E+08	1,362750E+09	1,362728E+09	9,975228E+08	3,732319E+08
2017	8,214557E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212617E+06	3,732473E+08	9,975377E+08	1,362747E+09	1,362776E+09	9,976035E+08	3,733112E+08
2018	8,215625E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217637E+06	3,732825E+08	9,975846E+08	1,362763E+09	1,362763E+09	9,975857E+08	3,732961E+08
2019	8,217847E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217644E+06	3,733454E+08	9,976558E+08	1,362838E+09	1,362808E+09	9,975795E+08	3,732537E+08
2020	8,212825E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212488E+06	3,732658E+08	9,976201E+08	1,362864E+09	1,362887E+09	9,976860E+08	3,733503E+08
2021	8,215489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219314E+06	3,733449E+08	9,976989E+08	1,362913E+09	1,362899E+09	9,976585E+08	3,732980E+08
2022	8,216711E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212749E+06	3,733360E+08	9,977093E+08	1,362950E+09	1,362943E+09	9,976917E+08	3,733105E+08
2023	8,211982E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213142E+06	3,732720E+08	9,976519E+08	1,362916E+09	1,362951E+09	9,977419E+08	3,733770E+08
2024	8,217697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217985E+06	3,733700E+08	9,977268E+08	1,362936E+09	1,362917E+09	9,976703E+08	3,732884E+08
2025	8,214860E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,211923E+06	3,733137E+08	9,976862E+08	1,362925E+09	1,362932E+09	9,977070E+08	3,733388E+08
2026	8,212468E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216247E+06	3,732988E+08	9,976653E+08	1,362883E+09	1,362878E+09	9,976685E+08	3,733384E+08
2027	8,219112E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216473E+06	3,733560E+08	9,976901E+08	1,362885E+09	1,362845E+09	9,975944E+08	3,732527E+08
2028	8,212483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212819E+06	3,732547E+08	9,975819E+08	1,362814E+09	1,362837E+09	9,976417E+08	3,733270E+08
2029	8,215607E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218393E+06	3,732952E+08	9,975848E+08	1,362762E+09	1,362757E+09	9,975654E+08	3,732747E+08
2030	8,218473E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216305E+06	3,733066E+08	9,975762E+08	1,362737E+09	1,362713E+09	9,975132E+08	3,732350E+08
2031	8,212548E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214446E+06	3,732099E+08	9,974686E+08	1,362654E+09	1,362679E+09	9,975405E+08	3,733063E+08
2032	8,219626E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219861E+06	3,732878E+08	9,975132E+08	1,362644E+09	1,362618E+09	9,974498E+08	3,732165E+08
2033	8,216795E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215065E+06	3,732409E+08	9,974667E+08	1,362625E+09	1,362625E+09	9,974686E+08	3,732430E+08
2034	8,215174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215464E+06	3,731967E+08	9,974208E+08	1,362581E+09	1,362599E+09	9,974747E+08	3,732750E+08
2035	8,220081E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220343E+06	3,732884E+08	9,974885E+08	1,362612E+09	1,362588E+09	9,974178E+08	3,731897E+08
2036	8,214696E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213886E+06	3,732226E+08	9,974528E+08	1,362620E+09	1,362643E+09	9,975057E+08	3,732729E+08
2037	8,215640E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219083E+06	3,732589E+08	9,975105E+08	1,362664E+09	1,362658E+09	9,975021E+08	3,732677E+08
2038	8,218873E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217818E+06	3,733126E+08	9,975798E+08	1,362743E+09	1,362710E+09	9,975010E+08	3,732254E+08
2039	8,213842E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212173E+06	3,732206E+08	9,975153E+08	1,362739E+09	1,362775E+09	9,976074E+08	3,733266E+08
2040	8,217006E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219392E+06	3,733031E+08	9,975921E+08	1,362775E+09	1,362771E+09	9,975752E+08	3,732728E+08



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°
2041	8,218030E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213398E+06	3,733002E+08	9,976065E+08	1,362808E+09	1,362807E+09	9,975991E+08	3,732780E+08
2042	8,212704E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214556E+06	3,732472E+08	9,975643E+08	1,362777E+09	1,362801E+09	9,976295E+08	3,733364E+08
2043	8,218189E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219453E+06	3,733430E+08	9,976394E+08	1,362809E+09	1,362777E+09	9,975569E+08	3,732434E+08
2044	8,215081E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213012E+06	3,732798E+08	9,975874E+08	1,362790E+09	1,362795E+09	9,975996E+08	3,732950E+08
2045	8,212850E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217337E+06	3,732615E+08	9,975616E+08	1,362754E+09	1,362755E+09	9,975727E+08	3,733027E+08
2046	8,220213E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217236E+06	3,733158E+08	9,975826E+08	1,362745E+09	1,362711E+09	9,974957E+08	3,732154E+08
2047	8,213242E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213513E+06	3,732107E+08	9,974575E+08	1,362647E+09	1,362680E+09	9,975343E+08	3,732922E+08
2048	8,216932E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219237E+06	3,732572E+08	9,974753E+08	1,362602E+09	1,362592E+09	9,974536E+08	3,732400E+08
2049	8,219633E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217161E+06	3,732650E+08	9,974670E+08	1,362589E+09	1,362559E+09	9,974003E+08	3,731963E+08
2050	8,213732E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215135E+06	3,731704E+08	9,973591E+08	1,362503E+09	1,362523E+09	9,974206E+08	3,732630E+08
2051	8,220534E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220769E+06	3,732462E+08	9,974001E+08	1,362496E+09	1,362472E+09	9,973380E+08	3,731724E+08
2052	8,217360E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216101E+06	3,732035E+08	9,973530E+08	1,362471E+09	1,362479E+09	9,973640E+08	3,732015E+08
2053	8,215526E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217019E+06	3,731699E+08	9,973294E+08	1,362455E+09	1,362475E+09	9,973831E+08	3,732427E+08
2054	8,220819E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221393E+06	3,732642E+08	9,974168E+08	1,362506E+09	1,362474E+09	9,973320E+08	3,731596E+08
2055	8,215518E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214016E+06	3,731874E+08	9,973661E+08	1,362509E+09	1,362532E+09	9,974233E+08	3,732474E+08
2056	8,216925E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219092E+06	3,732223E+08	9,974245E+08	1,362552E+09	1,362549E+09	9,974267E+08	3,732449E+08
2057	8,220223E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217654E+06	3,732699E+08	9,974815E+08	1,362623E+09	1,362601E+09	9,974248E+08	3,731980E+08
2058	8,214870E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,212972E+06	3,731881E+08	9,974151E+08	1,362601E+09	1,362642E+09	9,975120E+08	3,732907E+08
2059	8,217393E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220781E+06	3,732752E+08	9,974953E+08	1,362634E+09	1,362630E+09	9,974726E+08	3,732316E+08
2060	8,218078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214933E+06	3,732756E+08	9,975163E+08	1,362670E+09	1,362662E+09	9,974923E+08	3,732364E+08
2061	8,212697E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216120E+06	3,732212E+08	9,974824E+08	1,362664E+09	1,362677E+09	9,975285E+08	3,732997E+08
2062	8,219037E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219954E+06	3,733077E+08	9,975504E+08	1,362692E+09	1,362655E+09	9,974600E+08	3,732072E+08
2063	8,215920E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213093E+06	3,732328E+08	9,974712E+08	1,362644E+09	1,362658E+09	9,975014E+08	3,732619E+08
2064	8,214339E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217735E+06	3,732191E+08	9,974469E+08	1,362598E+09	1,362606E+09	9,974741E+08	3,732704E+08
2065	8,221452E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218058E+06	3,732750E+08	9,974699E+08	1,362590E+09	1,362560E+09	9,973918E+08	3,731797E+08
2066	8,214343E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214910E+06	3,731792E+08	9,973538E+08	1,362493E+09	1,362517E+09	9,974137E+08	3,732501E+08
2067	8,217908E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220325E+06	3,732185E+08	9,973671E+08	1,362455E+09	1,362441E+09	9,973349E+08	3,731952E+08
2068	8,220234E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218152E+06	3,732229E+08	9,973508E+08	1,362435E+09	1,362410E+09	9,972897E+08	3,731540E+08
2069	8,214460E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216077E+06	3,731300E+08	9,972481E+08	1,362364E+09	1,362389E+09	9,973193E+08	3,732259E+08
2070	8,221440E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221498E+06	3,732073E+08	9,972935E+08	1,362354E+09	1,362335E+09	9,972395E+08	3,731357E+08
2071	8,217960E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216734E+06	3,731672E+08	9,972460E+08	1,362321E+09	1,362333E+09	9,972640E+08	3,731685E+08
2072	8,216627E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217782E+06	3,731407E+08	9,972438E+08	1,362323E+09	1,362336E+09	9,972880E+08	3,732126E+08
2073	8,221770E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221879E+06	3,732289E+08	9,973308E+08	1,362393E+09	1,362357E+09	9,972434E+08	3,731295E+08
2074	8,216712E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214624E+06	3,731553E+08	9,972762E+08	1,362388E+09	1,362410E+09	9,973289E+08	3,732120E+08
2075	8,217575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219785E+06	3,731861E+08	9,973276E+08	1,362427E+09	1,362430E+09	9,973372E+08	3,732079E+08
2076	8,220484E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218740E+06	3,732390E+08	9,973832E+08	1,362487E+09	1,362472E+09	9,973356E+08	3,731616E+08

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												
2077	8,214870E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,214713E+06	3,731672E+08	9,973358E+08	1,362485E+09	1,362522E+09	9,974230E+08	3,732579E+08
2078	8,217737E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221841E+06	3,732519E+08	9,974238E+08	1,362527E+09	1,362513E+09	9,973830E+08	3,731992E+08
2079	8,218661E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215286E+06	3,732411E+08	9,974254E+08	1,362548E+09	1,362538E+09	9,973998E+08	3,732065E+08
2080	8,214014E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216256E+06	3,731828E+08	9,973887E+08	1,362537E+09	1,362551E+09	9,974402E+08	3,732712E+08
2081	8,220462E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219865E+06	3,732603E+08	9,974406E+08	1,362555E+09	1,362527E+09	9,973692E+08	3,731763E+08
2082	8,217215E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,213994E+06	3,731935E+08	9,973540E+08	1,362484E+09	1,362503E+09	9,973897E+08	3,732209E+08
2083	8,215165E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218881E+06	3,731824E+08	9,973347E+08	1,362437E+09	1,362445E+09	9,973572E+08	3,732255E+08
2084	8,221792E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219623E+06	3,732400E+08	9,973600E+08	1,362429E+09	1,362395E+09	9,972720E+08	3,731349E+08
2085	8,214774E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216367E+06	3,731440E+08	9,972507E+08	1,362355E+09	1,362372E+09	9,972994E+08	3,732095E+08
2086	8,219007E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220850E+06	3,731755E+08	9,972574E+08	1,362313E+09	1,362301E+09	9,972290E+08	3,731561E+08
2087	8,221108E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218465E+06	3,731734E+08	9,972227E+08	1,362271E+09	1,362257E+09	9,971835E+08	3,731188E+08
2088	8,215929E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216629E+06	3,730915E+08	9,971376E+08	1,362205E+09	1,362235E+09	9,972178E+08	3,731919E+08
2089	8,222405E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222312E+06	3,731718E+08	9,971961E+08	1,362214E+09	1,362194E+09	9,971406E+08	3,731028E+08
2090	8,218948E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217982E+06	3,731418E+08	9,971621E+08	1,362194E+09	1,362194E+09	9,971576E+08	3,731298E+08
2091	8,217335E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218702E+06	3,731107E+08	9,971613E+08	1,362211E+09	1,362218E+09	9,971930E+08	3,731744E+08
2092	8,222034E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222756E+06	3,731951E+08	9,972391E+08	1,362274E+09	1,362243E+09	9,971602E+08	3,730961E+08
2093	8,217195E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215596E+06	3,731237E+08	9,971885E+08	1,362280E+09	1,362305E+09	9,972500E+08	3,731819E+08
2094	8,218019E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220501E+06	3,731540E+08	9,972368E+08	1,362307E+09	1,362316E+09	9,972568E+08	3,731773E+08
2095	8,220809E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219258E+06	3,732064E+08	9,972876E+08	1,362350E+09	1,362338E+09	9,972458E+08	3,731334E+08
2096	8,215819E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215369E+06	3,731398E+08	9,972563E+08	1,362359E+09	1,362387E+09	9,973305E+08	3,732294E+08
2097	8,218785E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221838E+06	3,732123E+08	9,973341E+08	1,362409E+09	1,362391E+09	9,972913E+08	3,731706E+08
2098	8,220183E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215754E+06	3,732039E+08	9,973249E+08	1,362413E+09	1,362402E+09	9,972961E+08	3,731692E+08
2099	8,215153E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216888E+06	3,731412E+08	9,972781E+08	1,362393E+09	1,362413E+09	9,973358E+08	3,732293E+08
2100	8,220973E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221108E+06	3,732237E+08	9,973279E+08	1,362399E+09	1,362377E+09	9,972646E+08	3,731360E+08
2101	8,217551E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215944E+06	3,731658E+08	9,972603E+08	1,362349E+09	1,362359E+09	9,972820E+08	3,731812E+08
2102	8,215735E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219964E+06	3,731489E+08	9,972395E+08	1,362303E+09	1,362304E+09	9,972511E+08	3,731866E+08
2103	8,222391E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220205E+06	3,731962E+08	9,972457E+08	1,362278E+09	1,362246E+09	9,971643E+08	3,730998E+08
2104	8,216181E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216769E+06	3,731010E+08	9,971374E+08	1,362197E+09	1,362219E+09	9,971952E+08	3,731750E+08
2105	8,220456E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220991E+06	3,731251E+08	9,971346E+08	1,362156E+09	1,362151E+09	9,971239E+08	3,731208E+08
2106	8,222279E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219733E+06	3,731370E+08	9,971052E+08	1,362103E+09	1,362090E+09	9,970630E+08	3,730749E+08
2107	8,216712E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217878E+06	3,730606E+08	9,970392E+08	1,362058E+09	1,362081E+09	9,971009E+08	3,731454E+08
2108	8,222394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223858E+06	3,731430E+08	9,971072E+08	1,362083E+09	1,362053E+09	9,970351E+08	3,730635E+08
2109	8,219338E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219188E+06	3,731127E+08	9,970837E+08	1,362093E+09	1,362083E+09	9,970649E+08	3,730949E+08
2110	8,218061E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219100E+06	3,730744E+08	9,970731E+08	1,362103E+09	1,362115E+09	9,971143E+08	3,731437E+08
2111	8,222593E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222928E+06	3,731529E+08	9,971318E+08	1,362140E+09	1,362124E+09	9,970813E+08	3,730708E+08
2112	8,218426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216096E+06	3,730928E+08	9,970961E+08	1,362144E+09	1,362177E+09	9,971703E+08	3,731577E+08

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°
2113	8,219001E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220932E+06	3,731204E+08	9,971500E+08	1,362184E+09	1,362192E+09	9,971726E+08	3,731530E+08
2114	8,222060E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220099E+06	3,731782E+08	9,972028E+08	1,362227E+09	1,362204E+09	9,971445E+08	3,730998E+08
2115	8,216857E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,215956E+06	3,731071E+08	9,971715E+08	1,362244E+09	1,362266E+09	9,972322E+08	3,731904E+08
2116	8,219208E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222596E+06	3,731762E+08	9,972380E+08	1,362282E+09	1,362266E+09	9,971984E+08	3,731347E+08
2117	8,220751E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216942E+06	3,731704E+08	9,972313E+08	1,362293E+09	1,362279E+09	9,972011E+08	3,731314E+08
2118	8,215526E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218048E+06	3,731093E+08	9,971792E+08	1,362256E+09	1,362279E+09	9,972396E+08	3,731911E+08
2119	8,221229E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222033E+06	3,731870E+08	9,972194E+08	1,362243E+09	1,362222E+09	9,971584E+08	3,731014E+08
2120	8,218531E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217033E+06	3,731320E+08	9,971611E+08	1,362200E+09	1,362204E+09	9,971739E+08	3,731471E+08
2121	8,217099E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220072E+06	3,731003E+08	9,971250E+08	1,362157E+09	1,362157E+09	9,971435E+08	3,731526E+08
2122	8,223974E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220893E+06	3,731501E+08	9,971207E+08	1,362112E+09	1,362082E+09	9,970431E+08	3,730575E+08
2123	8,217444E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217533E+06	3,730574E+08	9,970169E+08	1,362034E+09	1,362057E+09	9,970736E+08	3,731267E+08
2124	8,220840E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222430E+06	3,730898E+08	9,970232E+08	1,361995E+09	1,361990E+09	9,970090E+08	3,730775E+08
2125	8,222534E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221625E+06	3,731118E+08	9,970223E+08	1,361981E+09	1,361952E+09	9,969539E+08	3,730338E+08
2126	8,217276E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218975E+06	3,730319E+08	9,969578E+08	1,361947E+09	1,361962E+09	9,970066E+08	3,731089E+08
2127	8,222822E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224277E+06	3,731029E+08	9,970085E+08	1,361959E+09	1,361936E+09	9,969505E+08	3,730372E+08
2128	8,220787E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219347E+06	3,730736E+08	9,969859E+08	1,361965E+09	1,361966E+09	9,969892E+08	3,730713E+08
2129	8,219494E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218867E+06	3,730267E+08	9,969624E+08	1,361969E+09	1,361995E+09	9,970350E+08	3,731196E+08
2130	8,223797E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223720E+06	3,731180E+08	9,970248E+08	1,361989E+09	1,361978E+09	9,969810E+08	3,730368E+08
2131	8,219294E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217071E+06	3,730656E+08	9,970086E+08	1,362010E+09	1,362033E+09	9,970619E+08	3,731160E+08
2132	8,218988E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222302E+06	3,730940E+08	9,970677E+08	1,362063E+09	1,362059E+09	9,970703E+08	3,731159E+08
2133	8,222535E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221365E+06	3,731528E+08	9,971307E+08	1,362130E+09	1,362093E+09	9,970493E+08	3,730630E+08
2134	8,217411E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216778E+06	3,730751E+08	9,970856E+08	1,362135E+09	1,362158E+09	9,971466E+08	3,731542E+08
2135	8,219515E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223141E+06	3,731377E+08	9,971334E+08	1,362145E+09	1,362138E+09	9,971108E+08	3,731047E+08
2136	8,221712E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217974E+06	3,731403E+08	9,971362E+08	1,362151E+09	1,362143E+09	9,971116E+08	3,731015E+08
2137	8,216484E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218596E+06	3,730712E+08	9,970807E+08	1,362121E+09	1,362142E+09	9,971431E+08	3,731615E+08
2138	8,222608E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222869E+06	3,731488E+08	9,971123E+08	1,362095E+09	1,362069E+09	9,970437E+08	3,730637E+08
2139	8,219868E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217733E+06	3,730900E+08	9,970510E+08	1,362053E+09	1,362054E+09	9,970565E+08	3,731029E+08
2140	8,217915E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220887E+06	3,730556E+08	9,970046E+08	1,361998E+09	1,362002E+09	9,970304E+08	3,731113E+08
2141	8,224757E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222271E+06	3,731112E+08	9,970104E+08	1,361965E+09	1,361930E+09	9,969276E+08	3,730129E+08
2142	8,217914E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218862E+06	3,730246E+08	9,969125E+08	1,361885E+09	1,361908E+09	9,969627E+08	3,730815E+08
2143	8,220964E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223423E+06	3,730542E+08	9,969198E+08	1,361846E+09	1,361837E+09	9,969000E+08	3,730411E+08
2144	8,223422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222525E+06	3,730779E+08	9,969288E+08	1,361848E+09	1,361817E+09	9,968583E+08	3,730034E+08
2145	8,218884E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218840E+06	3,729852E+08	9,968523E+08	1,361820E+09	1,361842E+09	9,969196E+08	3,730825E+08
2146	8,224459E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224676E+06	3,730572E+08	9,968903E+08	1,361810E+09	1,361797E+09	9,968523E+08	3,730051E+08
2147	8,222214E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219906E+06	3,730346E+08	9,968773E+08	1,361819E+09	1,361826E+09	9,968879E+08	3,730325E+08
2148	8,219808E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220284E+06	3,729985E+08	9,968661E+08	1,361828E+09	1,361854E+09	9,969367E+08	3,730834E+08

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude ☉	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												
2149	8,223907E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225357E+06	3,730981E+08	9,969572E+08	1,361885E+09	1,361855E+09	9,968827E+08	3,729991E+08
2150	8,219513E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218242E+06	3,730454E+08	9,969436E+08	1,361916E+09	1,361929E+09	9,969745E+08	3,730792E+08
2151	8,219052E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222851E+06	3,730621E+08	9,969843E+08	1,361954E+09	1,361952E+09	9,969892E+08	3,730883E+08
2152	8,223624E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221767E+06	3,731198E+08	9,970430E+08	1,362014E+09	1,361986E+09	9,969762E+08	3,730387E+08
2153	8,218722E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,216871E+06	3,730327E+08	9,969819E+08	1,362007E+09	1,362041E+09	9,970668E+08	3,731286E+08
2154	8,220726E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223868E+06	3,731008E+08	9,970241E+08	1,361992E+09	1,361989E+09	9,970076E+08	3,730705E+08
2155	8,222774E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218894E+06	3,731060E+08	9,970376E+08	1,362007E+09	1,361990E+09	9,969960E+08	3,730589E+08
2156	8,216887E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219733E+06	3,730343E+08	9,969747E+08	1,361976E+09	1,361991E+09	9,970291E+08	3,731213E+08
2157	8,223506E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223901E+06	3,731102E+08	9,970111E+08	1,361963E+09	1,361927E+09	9,969294E+08	3,730201E+08
2158	8,220578E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218848E+06	3,730509E+08	9,969388E+08	1,361905E+09	1,361910E+09	9,969458E+08	3,730572E+08
2159	8,218401E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221707E+06	3,730138E+08	9,968828E+08	1,361833E+09	1,361844E+09	9,969191E+08	3,730723E+08
2160	8,225643E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223635E+06	3,730790E+08	9,969058E+08	1,361809E+09	1,361778E+09	9,968242E+08	3,729785E+08
2161	8,219143E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219411E+06	3,729844E+08	9,968104E+08	1,361748E+09	1,361767E+09	9,968610E+08	3,730489E+08
2162	8,222398E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224093E+06	3,730136E+08	9,968118E+08	1,361702E+09	1,361692E+09	9,967920E+08	3,730060E+08
2163	8,224831E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223073E+06	3,730358E+08	9,968220E+08	1,361709E+09	1,361680E+09	9,967532E+08	3,729636E+08
2164	8,219684E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219681E+06	3,729442E+08	9,967384E+08	1,361674E+09	1,361704E+09	9,968220E+08	3,730461E+08
2165	8,224973E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226030E+06	3,730249E+08	9,967937E+08	1,361678E+09	1,361662E+09	9,967514E+08	3,729650E+08
2166	8,222343E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221382E+06	3,730113E+08	9,967909E+08	1,361689E+09	1,361693E+09	9,967891E+08	3,729913E+08
2167	8,219572E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221359E+06	3,729730E+08	9,967847E+08	1,361705E+09	1,361722E+09	9,968399E+08	3,730509E+08
2168	8,224477E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226134E+06	3,730721E+08	9,968820E+08	1,361778E+09	1,361746E+09	9,968024E+08	3,729739E+08
2169	8,220981E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,217999E+06	3,730061E+08	9,968565E+08	1,361813E+09	1,361830E+09	9,969005E+08	3,730553E+08
2170	8,220504E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223068E+06	3,730216E+08	9,968808E+08	1,361823E+09	1,361831E+09	9,969033E+08	3,730595E+08
2171	8,224987E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222159E+06	3,730835E+08	9,969438E+08	1,361880E+09	1,361857E+09	9,968815E+08	3,730026E+08
2172	8,219143E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,218223E+06	3,730033E+08	9,968855E+08	1,361870E+09	1,361904E+09	9,969693E+08	3,730934E+08
2173	8,221223E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225184E+06	3,730728E+08	9,969429E+08	1,361875E+09	1,361856E+09	9,969023E+08	3,730308E+08
2174	8,223198E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220178E+06	3,730758E+08	9,969469E+08	1,361883E+09	1,361862E+09	9,968944E+08	3,730176E+08
2175	8,217236E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220378E+06	3,729943E+08	9,968652E+08	1,361830E+09	1,361850E+09	9,969266E+08	3,730857E+08
2176	8,224618E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224526E+06	3,730683E+08	9,968951E+08	1,361808E+09	1,361785E+09	9,968330E+08	3,729875E+08
2177	8,221948E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,219277E+06	3,730052E+08	9,968175E+08	1,361747E+09	1,361760E+09	9,968415E+08	3,730212E+08
2178	8,219683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222582E+06	3,729740E+08	9,967628E+08	1,361660E+09	1,361671E+09	9,967962E+08	3,730300E+08
2179	8,226630E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224640E+06	3,730415E+08	9,968020E+08	1,361659E+09	1,361615E+09	9,966992E+08	3,729336E+08
2180	8,219820E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220600E+06	3,729467E+08	9,967035E+08	1,361605E+09	1,361619E+09	9,967490E+08	3,730089E+08
2181	8,223370E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225021E+06	3,729744E+08	9,967121E+08	1,361572E+09	1,361557E+09	9,966856E+08	3,729646E+08
2182	8,225399E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224291E+06	3,729996E+08	9,967162E+08	1,361570E+09	1,361549E+09	9,966560E+08	3,729228E+08
2183	8,219966E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220602E+06	3,729102E+08	9,966306E+08	1,361523E+09	1,361562E+09	9,967250E+08	3,730117E+08
2184	8,225441E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227166E+06	3,729980E+08	9,967046E+08	1,361546E+09	1,361534E+09	9,966655E+08	3,729373E+08





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												
2221	8,221867E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222344E+06	3,728511E+08	9,964555E+08	1,361259E+09	1,361278E+09	9,965111E+08	3,729327E+08
2222	8,226218E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228982E+06	3,729394E+08	9,965435E+08	1,361315E+09	1,361286E+09	9,964713E+08	3,728641E+08
2223	8,224489E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223208E+06	3,729167E+08	9,965370E+08	1,361351E+09	1,361350E+09	9,965318E+08	3,729008E+08
2224	8,222361E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223301E+06	3,728763E+08	9,965262E+08	1,361368E+09	1,361395E+09	9,965931E+08	3,729606E+08
2225	8,226972E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227811E+06	3,729722E+08	9,966145E+08	1,361425E+09	1,361408E+09	9,965577E+08	3,728818E+08
2226	8,222939E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220413E+06	3,729118E+08	9,965753E+08	1,361419E+09	1,361446E+09	9,966334E+08	3,729614E+08
2227	8,222147E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225388E+06	3,729283E+08	9,966191E+08	1,361453E+09	1,361452E+09	9,966281E+08	3,729629E+08
2228	8,227063E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224461E+06	3,729846E+08	9,966689E+08	1,361503E+09	1,361476E+09	9,966006E+08	3,729004E+08
2229	8,221309E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,220614E+06	3,729007E+08	9,965953E+08	1,361461E+09	1,361485E+09	9,966569E+08	3,729806E+08
2230	8,223662E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227195E+06	3,729604E+08	9,966344E+08	1,361456E+09	1,361442E+09	9,965982E+08	3,729217E+08
2231	8,225933E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222781E+06	3,729586E+08	9,966167E+08	1,361437E+09	1,361425E+09	9,965791E+08	3,729052E+08
2232	8,220108E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223335E+06	3,728833E+08	9,965424E+08	1,361379E+09	1,361398E+09	9,965952E+08	3,729636E+08
2233	8,227087E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227422E+06	3,729577E+08	9,965826E+08	1,361368E+09	1,361335E+09	9,965001E+08	3,728660E+08
2234	8,223889E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222515E+06	3,728910E+08	9,964916E+08	1,361292E+09	1,361297E+09	9,965035E+08	3,729036E+08
2235	8,223012E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224493E+06	3,728501E+08	9,964420E+08	1,361234E+09	1,361244E+09	9,964781E+08	3,729176E+08
2236	8,229628E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227305E+06	3,729118E+08	9,964556E+08	1,361213E+09	1,361192E+09	9,963930E+08	3,728223E+08
2237	8,222912E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223154E+06	3,728298E+08	9,963622E+08	1,361129E+09	1,361155E+09	9,964186E+08	3,728887E+08
2238	8,225547E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227947E+06	3,728666E+08	9,963970E+08	1,361127E+09	1,361115E+09	9,963710E+08	3,728529E+08
2239	8,227201E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227405E+06	3,728991E+08	9,964221E+08	1,361157E+09	1,361127E+09	9,963515E+08	3,728168E+08
2240	8,222560E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222989E+06	3,728176E+08	9,963673E+08	1,361153E+09	1,361179E+09	9,964331E+08	3,729051E+08
2241	8,227423E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229155E+06	3,728993E+08	9,964494E+08	1,361203E+09	1,361185E+09	9,964018E+08	3,728423E+08
2242	8,225937E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223438E+06	3,728790E+08	9,964349E+08	1,361215E+09	1,361223E+09	9,964476E+08	3,728738E+08
2243	8,223447E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223553E+06	3,728416E+08	9,964356E+08	1,361239E+09	1,361263E+09	9,965033E+08	3,729323E+08
2244	8,227655E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228626E+06	3,729402E+08	9,965267E+08	1,361303E+09	1,361282E+09	9,964663E+08	3,728518E+08
2245	8,223919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221321E+06	3,728852E+08	9,964991E+08	1,361305E+09	1,361318E+09	9,965306E+08	3,729208E+08
2246	8,222336E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226438E+06	3,728971E+08	9,965309E+08	1,361334E+09	1,361329E+09	9,965333E+08	3,729257E+08
2247	8,227606E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225408E+06	3,729495E+08	9,965678E+08	1,361367E+09	1,361342E+09	9,965034E+08	3,728649E+08
2248	8,221958E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,221715E+06	3,728653E+08	9,964888E+08	1,361324E+09	1,361360E+09	9,965659E+08	3,729460E+08
2249	8,224483E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227950E+06	3,729244E+08	9,965323E+08	1,361313E+09	1,361302E+09	9,965001E+08	3,728876E+08
2250	8,226779E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223615E+06	3,729212E+08	9,965116E+08	1,361284E+09	1,361264E+09	9,964634E+08	3,728670E+08
2251	8,221274E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223638E+06	3,728399E+08	9,964364E+08	1,361235E+09	1,361245E+09	9,964808E+08	3,729268E+08
2252	8,228362E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228149E+06	3,729100E+08	9,964614E+08	1,361214E+09	1,361186E+09	9,963913E+08	3,728295E+08
2253	8,225321E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223699E+06	3,728517E+08	9,963784E+08	1,361133E+09	1,361138E+09	9,963837E+08	3,728563E+08
2254	8,223494E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226036E+06	3,728149E+08	9,963275E+08	1,361072E+09	1,361084E+09	9,963625E+08	3,728718E+08
2255	8,229681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228978E+06	3,728809E+08	9,963514E+08	1,361057E+09	1,361030E+09	9,962769E+08	3,727800E+08
2256	8,223327E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224350E+06	3,727999E+08	9,962714E+08	1,361006E+09	1,361030E+09	9,963204E+08	3,728531E+08

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	8,226455E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228389E+06	3,728302E+08	9,963081E+08	1,361014E+09	1,361000E+09	9,962839E+08	3,728247E+08
2258	8,228497E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227459E+06	3,728580E+08	9,963234E+08	1,361031E+09	1,361005E+09	9,962638E+08	3,727901E+08
2259	8,224312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222789E+06	3,727746E+08	9,962684E+08	1,361029E+09	1,361058E+09	9,963502E+08	3,728794E+08
2260	8,228505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229828E+06	3,728600E+08	9,963433E+08	1,361067E+09	1,361061E+09	9,963183E+08	3,728146E+08
2261	8,226951E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224503E+06	3,728544E+08	9,963526E+08	1,361084E+09	1,361086E+09	9,963458E+08	3,728328E+08
2262	8,223236E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224920E+06	3,728169E+08	9,963551E+08	1,361119E+09	1,361132E+09	9,964037E+08	3,728933E+08
2263	8,227678E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229605E+06	3,729101E+08	9,964407E+08	1,361185E+09	1,361157E+09	9,963690E+08	3,728163E+08
2264	8,224552E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222123E+06	3,728519E+08	9,964069E+08	1,361194E+09	1,361215E+09	9,964473E+08	3,728898E+08
2265	8,223393E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226937E+06	3,728594E+08	9,964323E+08	1,361209E+09	1,361212E+09	9,964500E+08	3,728977E+08
2266	8,228824E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226043E+06	3,729133E+08	9,964625E+08	1,361219E+09	1,361197E+09	9,964035E+08	3,728325E+08
2267	8,223067E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222347E+06	3,728304E+08	9,963938E+08	1,361185E+09	1,361211E+09	9,964609E+08	3,729112E+08
2268	8,225323E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228829E+06	3,728871E+08	9,964326E+08	1,361177E+09	1,361162E+09	9,963959E+08	3,728526E+08
2269	8,227894E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224747E+06	3,728878E+08	9,964166E+08	1,361149E+09	1,361120E+09	9,963480E+08	3,728209E+08
2270	8,221728E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224705E+06	3,728004E+08	9,963259E+08	1,361090E+09	1,361102E+09	9,963731E+08	3,728854E+08
2271	8,229117E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229227E+06	3,728664E+08	9,963393E+08	1,361054E+09	1,361032E+09	9,962805E+08	3,727896E+08
2272	8,226090E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225041E+06	3,728118E+08	9,962564E+08	1,360976E+09	1,360991E+09	9,962767E+08	3,728170E+08
2273	8,224436E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226873E+06	3,727779E+08	9,962194E+08	1,360918E+09	1,360929E+09	9,962537E+08	3,728353E+08
2274	8,230553E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229623E+06	3,728419E+08	9,962461E+08	1,360905E+09	1,360870E+09	9,961607E+08	3,727437E+08
2275	8,224753E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224327E+06	3,727576E+08	9,961723E+08	1,360875E+09	1,360890E+09	9,962166E+08	3,728193E+08
2276	8,227763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228786E+06	3,727862E+08	9,962014E+08	1,360884E+09	1,360878E+09	9,961938E+08	3,727946E+08
2277	8,229917E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228339E+06	3,728247E+08	9,962267E+08	1,360898E+09	1,360875E+09	9,961654E+08	3,727500E+08
2278	8,224709E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224211E+06	3,727475E+08	9,961757E+08	1,360898E+09	1,360929E+09	9,962570E+08	3,728416E+08
2279	8,228417E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231345E+06	3,728353E+08	9,962588E+08	1,360941E+09	1,360930E+09	9,962241E+08	3,727799E+08
2280	8,227199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225669E+06	3,728290E+08	9,962745E+08	1,360983E+09	1,360983E+09	9,962632E+08	3,728016E+08
2281	8,223797E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225510E+06	3,727868E+08	9,962745E+08	1,361014E+09	1,361029E+09	9,963263E+08	3,728672E+08
2282	8,228669E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229655E+06	3,728717E+08	9,963446E+08	1,361059E+09	1,361035E+09	9,962833E+08	3,727899E+08
2283	8,226011E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,222230E+06	3,728130E+08	9,963089E+08	1,361065E+09	1,361086E+09	9,963578E+08	3,728597E+08
2284	8,224364E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227800E+06	3,728231E+08	9,963275E+08	1,361068E+09	1,361077E+09	9,963538E+08	3,728638E+08
2285	8,229719E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227328E+06	3,728879E+08	9,963752E+08	1,361079E+09	1,361045E+09	9,962876E+08	3,727865E+08
2286	8,223101E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223792E+06	3,728010E+08	9,963030E+08	1,361053E+09	1,361067E+09	9,963483E+08	3,728678E+08
2287	8,225783E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229702E+06	3,728473E+08	9,963263E+08	1,361038E+09	1,361020E+09	9,962872E+08	3,728137E+08
2288	8,228839E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225719E+06	3,728437E+08	9,962996E+08	1,361010E+09	1,360994E+09	9,962513E+08	3,727853E+08
2289	8,223036E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225379E+06	3,727565E+08	9,962027E+08	1,360931E+09	1,360956E+09	9,962730E+08	3,728512E+08
2290	8,230360E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229808E+06	3,728221E+08	9,962141E+08	1,360879E+09	1,360862E+09	9,961647E+08	3,727528E+08
2291	8,227345E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225709E+06	3,727733E+08	9,961506E+08	1,360820E+09	1,360825E+09	9,961597E+08	3,727787E+08
2292	8,225583E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227556E+06	3,727380E+08	9,961146E+08	1,360778E+09	1,360784E+09	9,961436E+08	3,727982E+08

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	8,231716E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230584E+06	3,728090E+08	9,961530E+08	1,360772E+09	1,360730E+09	9,960498E+08	3,727007E+08
2294	8,225439E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225299E+06	3,727224E+08	9,960743E+08	1,360746E+09	1,360763E+09	9,961203E+08	3,727807E+08
2295	8,228277E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229913E+06	3,727505E+08	9,960976E+08	1,360748E+09	1,360750E+09	9,961022E+08	3,727592E+08
2296	8,230261E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229718E+06	3,727947E+08	9,961300E+08	1,360774E+09	1,360762E+09	9,960815E+08	3,727161E+08
2297	8,225094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225234E+06	3,727221E+08	9,960923E+08	1,360776E+09	1,360807E+09	9,961708E+08	3,728111E+08
2298	8,228786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231670E+06	3,728011E+08	9,961708E+08	1,360818E+09	1,360801E+09	9,961299E+08	3,727512E+08
2299	8,228441E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225582E+06	3,727922E+08	9,961872E+08	1,360867E+09	1,360862E+09	9,961755E+08	3,727742E+08
2300	8,225062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225826E+06	3,727474E+08	9,961762E+08	1,360891E+09	1,360914E+09	9,962427E+08	3,728396E+08
2301	8,230000E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230476E+06	3,728423E+08	9,962526E+08	1,360926E+09	1,360902E+09	9,961848E+08	3,727515E+08
2302	8,226450E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,223569E+06	3,727870E+08	9,962200E+08	1,360934E+09	1,360953E+09	9,962587E+08	3,728198E+08
2303	8,224537E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229115E+06	3,727953E+08	9,962403E+08	1,360941E+09	1,360943E+09	9,962528E+08	3,728257E+08
2304	8,230113E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228408E+06	3,728545E+08	9,962839E+08	1,360967E+09	1,360932E+09	9,961945E+08	3,727507E+08
2305	8,223917E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224467E+06	3,727633E+08	9,962021E+08	1,360924E+09	1,360944E+09	9,962578E+08	3,728370E+08
2306	8,227132E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229656E+06	3,727972E+08	9,962035E+08	1,360880E+09	1,360872E+09	9,961861E+08	3,727829E+08
2307	8,230503E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226137E+06	3,727956E+08	9,961727E+08	1,360841E+09	1,360832E+09	9,961437E+08	3,727505E+08
2308	8,224344E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226288E+06	3,727146E+08	9,960777E+08	1,360757E+09	1,360788E+09	9,961559E+08	3,728105E+08
2309	8,231315E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231155E+06	3,727908E+08	9,961094E+08	1,360713E+09	1,360683E+09	9,960301E+08	3,727013E+08
2310	8,227492E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227160E+06	3,727413E+08	9,960528E+08	1,360678E+09	1,360668E+09	9,960343E+08	3,727292E+08
2311	8,226048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228632E+06	3,727013E+08	9,960127E+08	1,360642E+09	1,360645E+09	9,960337E+08	3,727554E+08
2312	8,232230E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231800E+06	3,727709E+08	9,960502E+08	1,360650E+09	1,360617E+09	9,959613E+08	3,726658E+08
2313	8,226380E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226316E+06	3,726900E+08	9,959752E+08	1,360615E+09	1,360642E+09	9,960377E+08	3,727506E+08
2314	8,228985E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230428E+06	3,727145E+08	9,959978E+08	1,360608E+09	1,360614E+09	9,960118E+08	3,727312E+08
2315	8,231233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230150E+06	3,727620E+08	9,960438E+08	1,360649E+09	1,360632E+09	9,959939E+08	3,726887E+08
2316	8,226136E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225601E+06	3,726878E+08	9,960033E+08	1,360659E+09	1,360690E+09	9,960848E+08	3,727831E+08
2317	8,229831E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232080E+06	3,727697E+08	9,960856E+08	1,360698E+09	1,360679E+09	9,960367E+08	3,727169E+08
2318	8,229272E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226250E+06	3,727601E+08	9,960989E+08	1,360749E+09	1,360744E+09	9,960866E+08	3,727397E+08
2319	8,225681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226894E+06	3,727154E+08	9,960805E+08	1,360762E+09	1,360789E+09	9,961513E+08	3,728038E+08
2320	8,230273E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231747E+06	3,728146E+08	9,961648E+08	1,360807E+09	1,360787E+09	9,960973E+08	3,727172E+08
2321	8,226859E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224761E+06	3,727620E+08	9,961384E+08	1,360813E+09	1,360826E+09	9,961666E+08	3,727858E+08
2322	8,225000E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229219E+06	3,727547E+08	9,961416E+08	1,360808E+09	1,360807E+09	9,961533E+08	3,727940E+08
2323	8,231433E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228458E+06	3,728097E+08	9,961766E+08	1,360827E+09	1,360796E+09	9,960996E+08	3,727205E+08
2324	8,225440E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,224964E+06	3,727167E+08	9,960786E+08	1,360767E+09	1,360799E+09	9,961569E+08	3,728037E+08
2325	8,228681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230605E+06	3,727590E+08	9,960844E+08	1,360709E+09	1,360703E+09	9,960653E+08	3,727381E+08
2326	8,231033E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227858E+06	3,727640E+08	9,960650E+08	1,360678E+09	1,360661E+09	9,960180E+08	3,727022E+08
2327	8,224683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227809E+06	3,726834E+08	9,959785E+08	1,360608E+09	1,360627E+09	9,960324E+08	3,727622E+08
2328	8,231460E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232458E+06	3,727564E+08	9,960152E+08	1,360592E+09	1,360556E+09	9,959247E+08	3,726602E+08



1 Longitude °	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°
Years												
2329	8,228131E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228060E+06	3,727062E+08	9,959570E+08	1,360553E+09	1,360546E+09	9,959419E+08	3,726946E+08
2330	8,227128E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228626E+06	3,726544E+08	9,959003E+08	1,360501E+09	1,360512E+09	9,959418E+08	3,727259E+08
2331	8,233551E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232292E+06	3,727279E+08	9,959373E+08	1,360501E+09	1,360479E+09	9,958735E+08	3,726384E+08
2332	8,227722E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226993E+06	3,726535E+08	9,958681E+08	1,360466E+09	1,360501E+09	9,959436E+08	3,727202E+08
2333	8,229951E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231216E+06	3,726839E+08	9,959060E+08	1,360467E+09	1,360464E+09	9,959022E+08	3,726922E+08
2334	8,231680E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230928E+06	3,727290E+08	9,959549E+08	1,360525E+09	1,360499E+09	9,958906E+08	3,726505E+08
2335	8,226812E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226303E+06	3,726541E+08	9,959118E+08	1,360538E+09	1,360569E+09	9,959909E+08	3,727466E+08
2336	8,230251E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233028E+06	3,727363E+08	9,959953E+08	1,360589E+09	1,360575E+09	9,959552E+08	3,726851E+08
2337	8,229992E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227415E+06	3,727358E+08	9,960160E+08	1,360631E+09	1,360630E+09	9,960054E+08	3,727086E+08
2338	8,226124E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227593E+06	3,726859E+08	9,959955E+08	1,360636E+09	1,360660E+09	9,960619E+08	3,727741E+08
2339	8,231033E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232266E+06	3,727831E+08	9,960820E+08	1,360687E+09	1,360661E+09	9,960117E+08	3,726903E+08
2340	8,228000E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,225269E+06	3,727257E+08	9,960446E+08	1,360690E+09	1,360705E+09	9,960780E+08	3,727565E+08
2341	8,226202E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229566E+06	3,727155E+08	9,960376E+08	1,360666E+09	1,360667E+09	9,960504E+08	3,727568E+08
2342	8,232369E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229314E+06	3,727683E+08	9,960636E+08	1,360677E+09	1,360649E+09	9,959918E+08	3,726796E+08
2343	8,226108E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226439E+06	3,726806E+08	9,959624E+08	1,360604E+09	1,360638E+09	9,960398E+08	3,727578E+08
2344	8,228912E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232136E+06	3,727264E+08	9,959814E+08	1,360562E+09	1,360550E+09	9,959495E+08	3,726936E+08
2345	8,231272E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229404E+06	3,727355E+08	9,959728E+08	1,360538E+09	1,360509E+09	9,959025E+08	3,726595E+08
2346	8,225346E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227996E+06	3,726396E+08	9,958725E+08	1,360467E+09	1,360480E+09	9,959208E+08	3,727244E+08
2347	8,232720E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232640E+06	3,727090E+08	9,959028E+08	1,360448E+09	1,360419E+09	9,958314E+08	3,726314E+08
2348	8,229888E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228473E+06	3,726592E+08	9,958365E+08	1,360402E+09	1,360410E+09	9,958494E+08	3,726647E+08
2349	8,228765E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229292E+06	3,726154E+08	9,957856E+08	1,360340E+09	1,360358E+09	9,958355E+08	3,726884E+08
2350	8,234234E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233606E+06	3,726950E+08	9,958379E+08	1,360357E+09	1,360331E+09	9,957658E+08	3,725993E+08
2351	8,228303E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228191E+06	3,726237E+08	9,957766E+08	1,360334E+09	1,360360E+09	9,958369E+08	3,726798E+08
2352	8,230125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232201E+06	3,726519E+08	9,958224E+08	1,360361E+09	1,360352E+09	9,958120E+08	3,726584E+08
2353	8,232254E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231827E+06	3,727010E+08	9,958741E+08	1,360415E+09	1,360390E+09	9,958098E+08	3,726204E+08
2354	8,227599E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226425E+06	3,726166E+08	9,958182E+08	1,360416E+09	1,360452E+09	9,959085E+08	3,727181E+08
2355	8,231031E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233673E+06	3,727043E+08	9,959045E+08	1,360461E+09	1,360455E+09	9,958787E+08	3,726608E+08
2356	8,231088E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228147E+06	3,727069E+08	9,959299E+08	1,360506E+09	1,360505E+09	9,959183E+08	3,726793E+08
2357	8,226885E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228307E+06	3,726569E+08	9,959120E+08	1,360511E+09	1,360523E+09	9,959580E+08	3,727369E+08
2358	8,231610E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232890E+06	3,727469E+08	9,959907E+08	1,360566E+09	1,360532E+09	9,959096E+08	3,726529E+08
2359	8,228812E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226220E+06	3,726879E+08	9,959407E+08	1,360553E+09	1,360571E+09	9,959770E+08	3,727177E+08
2360	8,226763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230592E+06	3,726764E+08	9,959310E+08	1,360532E+09	1,360536E+09	9,959534E+08	3,727203E+08
2361	8,233078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230804E+06	3,727382E+08	9,959620E+08	1,360529E+09	1,360502E+09	9,958884E+08	3,726414E+08
2362	8,226634E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227228E+06	3,726441E+08	9,958596E+08	1,360454E+09	1,360481E+09	9,959257E+08	3,727179E+08
2363	8,229734E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232730E+06	3,726876E+08	9,958803E+08	1,360419E+09	1,360403E+09	9,958448E+08	3,726603E+08
2364	8,232642E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229857E+06	3,726918E+08	9,958649E+08	1,360399E+09	1,360371E+09	9,958003E+08	3,726260E+08

1 Years \ Longitude °	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°
2365	8,227019E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228281E+06	3,725945E+08	9,957571E+08	1,360313E+09	1,360329E+09	9,958117E+08	3,726861E+08
2366	8,233938E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233472E+06	3,726628E+08	9,957812E+08	1,360290E+09	1,360268E+09	9,957229E+08	3,725928E+08
2367	8,230844E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230011E+06	3,726226E+08	9,957188E+08	1,360238E+09	1,360252E+09	9,957380E+08	3,726217E+08
2368	8,229048E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230808E+06	3,725840E+08	9,956872E+08	1,360201E+09	1,360212E+09	9,957264E+08	3,726461E+08
2369	8,234216E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235125E+06	3,726683E+08	9,957521E+08	1,360229E+09	1,360192E+09	9,956601E+08	3,725598E+08
2370	8,228726E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228430E+06	3,725868E+08	9,956842E+08	1,360210E+09	1,360231E+09	9,957369E+08	3,726446E+08
2371	8,230947E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232573E+06	3,726141E+08	9,957270E+08	1,360236E+09	1,360235E+09	9,957326E+08	3,726344E+08
2372	8,233770E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232300E+06	3,726659E+08	9,957796E+08	1,360293E+09	1,360276E+09	9,957309E+08	3,725956E+08
2373	8,228953E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227205E+06	3,725886E+08	9,957306E+08	1,360287E+09	1,360322E+09	9,958160E+08	3,726849E+08
2374	8,231539E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234734E+06	3,726774E+08	9,958262E+08	1,360347E+09	1,360332E+09	9,957852E+08	3,726271E+08
2375	8,231647E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229209E+06	3,726796E+08	9,958500E+08	1,360396E+09	1,360387E+09	9,958252E+08	3,726424E+08
2376	8,227042E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229078E+06	3,726236E+08	9,958291E+08	1,360410E+09	1,360418E+09	9,958728E+08	3,727039E+08
2377	8,232205E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233652E+06	3,727125E+08	9,958988E+08	1,360446E+09	1,360416E+09	9,958239E+08	3,726213E+08
2378	8,229667E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,226625E+06	3,726455E+08	9,958293E+08	1,360408E+09	1,360431E+09	9,958790E+08	3,726841E+08
2379	8,227700E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231425E+06	3,726392E+08	9,958190E+08	1,360372E+09	1,360387E+09	9,958567E+08	3,726904E+08
2380	8,234423E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231704E+06	3,727021E+08	9,958571E+08	1,360376E+09	1,360346E+09	9,957782E+08	3,726057E+08
2381	8,227763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227864E+06	3,726051E+08	9,957539E+08	1,360302E+09	1,360317E+09	9,958007E+08	3,726733E+08
2382	8,230722E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233250E+06	3,726428E+08	9,957696E+08	1,360275E+09	1,360254E+09	9,957267E+08	3,726176E+08
2383	8,233653E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231004E+06	3,726480E+08	9,957451E+08	1,360245E+09	1,360222E+09	9,956875E+08	3,725820E+08
2384	8,227762E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229554E+06	3,725550E+08	9,956444E+08	1,360168E+09	1,360186E+09	9,957061E+08	3,726454E+08
2385	8,234454E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235330E+06	3,726339E+08	9,956802E+08	1,360141E+09	1,360119E+09	9,956172E+08	3,725539E+08
2386	8,231292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230998E+06	3,725882E+08	9,956190E+08	1,360093E+09	1,360100E+09	9,956285E+08	3,725835E+08
2387	8,229750E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231501E+06	3,725491E+08	9,955907E+08	1,360067E+09	1,360080E+09	9,956349E+08	3,726177E+08
2388	8,235491E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235355E+06	3,726283E+08	9,956545E+08	1,360104E+09	1,360072E+09	9,955726E+08	3,725323E+08
2389	8,230292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228466E+06	3,725475E+08	9,955850E+08	1,360080E+09	1,360102E+09	9,956422E+08	3,726111E+08
2390	8,231957E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233241E+06	3,725775E+08	9,956300E+08	1,360110E+09	1,360111E+09	9,956397E+08	3,726015E+08
2391	8,234529E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233607E+06	3,726392E+08	9,956896E+08	1,360165E+09	1,360148E+09	9,956380E+08	3,725588E+08
2392	8,229122E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228531E+06	3,725657E+08	9,956593E+08	1,360183E+09	1,360204E+09	9,957246E+08	3,726488E+08
2393	8,231523E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235927E+06	3,726526E+08	9,957531E+08	1,360243E+09	1,360219E+09	9,956967E+08	3,725938E+08
2394	8,232174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229316E+06	3,726407E+08	9,957560E+08	1,360278E+09	1,360271E+09	9,957366E+08	3,726104E+08
2395	8,227874E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229510E+06	3,725833E+08	9,957209E+08	1,360273E+09	1,360299E+09	9,957950E+08	3,726800E+08
2396	8,233832E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234048E+06	3,726714E+08	9,957878E+08	1,360300E+09	1,360282E+09	9,957340E+08	3,725933E+08
2397	8,231037E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,227584E+06	3,726121E+08	9,957244E+08	1,360252E+09	1,360272E+09	9,957644E+08	3,726438E+08
2398	8,228516E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232492E+06	3,726054E+08	9,957215E+08	1,360229E+09	1,360230E+09	9,957355E+08	3,726476E+08
2399	8,235135E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233057E+06	3,726685E+08	9,957575E+08	1,360237E+09	1,360198E+09	9,956619E+08	3,725608E+08
2400	8,228205E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,228981E+06	3,725686E+08	9,956569E+08	1,360175E+09	1,360183E+09	9,956934E+08	3,726300E+08

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												
2401	8,231290E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234398E+06	3,726050E+08	9,956636E+08	1,360136E+09	1,360117E+09	9,956251E+08	3,725785E+08
2402	8,234323E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231900E+06	3,726042E+08	9,956243E+08	1,360088E+09	1,360073E+09	9,955810E+08	3,725433E+08
2403	8,228602E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230686E+06	3,725181E+08	9,955262E+08	1,360002E+09	1,360034E+09	9,956074E+08	3,726138E+08
2404	8,235720E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236061E+06	3,725949E+08	9,955741E+08	1,359991E+09	1,359966E+09	9,955096E+08	3,725202E+08
2405	8,232553E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231436E+06	3,725480E+08	9,955135E+08	1,359946E+09	1,359944E+09	9,955103E+08	3,725434E+08
2406	8,230941E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231763E+06	3,725064E+08	9,954861E+08	1,359932E+09	1,359943E+09	9,955271E+08	3,725803E+08
2407	8,236477E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236263E+06	3,725909E+08	9,955500E+08	1,359969E+09	1,359943E+09	9,954772E+08	3,724958E+08
2408	8,231042E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229591E+06	3,725191E+08	9,954992E+08	1,359964E+09	1,359984E+09	9,955532E+08	3,725743E+08
2409	8,232078E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234948E+06	3,725584E+08	9,955572E+08	1,359999E+09	1,359996E+09	9,955542E+08	3,725677E+08
2410	8,234690E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234334E+06	3,726116E+08	9,956131E+08	1,360058E+09	1,360034E+09	9,955513E+08	3,725266E+08
2411	8,229601E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229184E+06	3,725362E+08	9,955756E+08	1,360073E+09	1,360103E+09	9,956548E+08	3,726269E+08
2412	8,232797E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235844E+06	3,726127E+08	9,956603E+08	1,360128E+09	1,360113E+09	9,956230E+08	3,725717E+08
2413	8,233736E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229341E+06	3,725982E+08	9,956484E+08	1,360138E+09	1,360137E+09	9,956434E+08	3,725792E+08
2414	8,229012E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230228E+06	3,725452E+08	9,956117E+08	1,360126E+09	1,360156E+09	9,956911E+08	3,726439E+08
2415	8,234594E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235490E+06	3,726416E+08	9,956841E+08	1,360147E+09	1,360127E+09	9,956215E+08	3,725502E+08
2416	8,231174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229128E+06	3,725863E+08	9,956417E+08	1,360125E+09	1,360123E+09	9,956464E+08	3,725961E+08
2417	8,228575E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233861E+06	3,725767E+08	9,956356E+08	1,360106E+09	1,360093E+09	9,956238E+08	3,726034E+08
2418	8,235589E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233508E+06	3,726246E+08	9,956485E+08	1,360099E+09	1,360062E+09	9,955562E+08	3,725217E+08
2419	8,229185E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229771E+06	3,725254E+08	9,955358E+08	1,360020E+09	1,360049E+09	9,956047E+08	3,726018E+08
2420	8,233159E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234838E+06	3,725593E+08	9,955415E+08	1,359975E+09	1,359970E+09	9,955279E+08	3,725486E+08
2421	8,235834E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232815E+06	3,725631E+08	9,955056E+08	1,359919E+09	1,359905E+09	9,954638E+08	3,725041E+08
2422	8,229805E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231461E+06	3,724793E+08	9,954178E+08	1,359850E+09	1,359874E+09	9,954865E+08	3,725727E+08
2423	8,236573E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237024E+06	3,725561E+08	9,954669E+08	1,359847E+09	1,359819E+09	9,953973E+08	3,724781E+08
2424	8,233174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232320E+06	3,725133E+08	9,954216E+08	1,359822E+09	1,359812E+09	9,954064E+08	3,725012E+08
2425	8,231426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232957E+06	3,724755E+08	9,953946E+08	1,359808E+09	1,359819E+09	9,954330E+08	3,725424E+08
2426	8,236756E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237208E+06	3,725577E+08	9,954520E+08	1,359837E+09	1,359817E+09	9,953873E+08	3,724619E+08
2427	8,231576E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230847E+06	3,724948E+08	9,954104E+08	1,359835E+09	1,359866E+09	9,954769E+08	3,725482E+08
2428	8,232952E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235415E+06	3,725271E+08	9,954767E+08	1,359886E+09	1,359881E+09	9,954723E+08	3,725420E+08
2429	8,235747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234385E+06	3,725738E+08	9,955219E+08	1,359937E+09	1,359911E+09	9,954583E+08	3,724949E+08
2430	8,230710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229346E+06	3,724963E+08	9,954759E+08	1,359947E+09	1,359980E+09	9,955607E+08	3,725949E+08
2431	8,233711E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236555E+06	3,725748E+08	9,955540E+08	1,359989E+09	1,359983E+09	9,955310E+08	3,725375E+08
2432	8,234435E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230703E+06	3,725726E+08	9,955618E+08	1,360008E+09	1,360001E+09	9,955429E+08	3,725389E+08
2433	8,229091E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232075E+06	3,725256E+08	9,955340E+08	1,360001E+09	1,360020E+09	9,955874E+08	3,726025E+08
2434	8,234675E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236342E+06	3,726112E+08	9,955981E+08	1,360024E+09	1,359994E+09	9,955184E+08	3,725123E+08
2435	8,231729E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,229945E+06	3,725521E+08	9,955441E+08	1,359998E+09	1,360006E+09	9,955609E+08	3,725668E+08
2436	8,230140E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233686E+06	3,725299E+08	9,955284E+08	1,359974E+09	1,359970E+09	9,955361E+08	3,725752E+08

	1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude °													
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°
2437	8,237242E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233653E+06	3,725734E+08	9,955219E+08	1,359938E+09	1,359910E+09	9,954514E+08	3,724868E+08
2438	8,230677E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230595E+06	3,724816E+08	9,954088E+08	1,359849E+09	1,359884E+09	9,954888E+08	3,725630E+08
2439	8,234233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236143E+06	3,725214E+08	9,954225E+08	1,359803E+09	1,359799E+09	9,954073E+08	3,725047E+08
2440	8,236253E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234392E+06	3,725315E+08	9,954092E+08	1,359772E+09	1,359740E+09	9,953375E+08	3,724549E+08
2441	8,230062E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232764E+06	3,724476E+08	9,953221E+08	1,359715E+09	1,359728E+09	9,953691E+08	3,725254E+08
2442	8,236820E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237605E+06	3,725142E+08	9,953587E+08	1,359707E+09	1,359682E+09	9,952929E+08	3,724386E+08
2443	8,233876E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233307E+06	3,724786E+08	9,953152E+08	1,359683E+09	1,359691E+09	9,953253E+08	3,724733E+08
2444	8,232883E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233543E+06	3,724422E+08	9,953018E+08	1,359681E+09	1,359697E+09	9,953510E+08	3,725158E+08
2445	8,237758E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237897E+06	3,725246E+08	9,953611E+08	1,359706E+09	1,359683E+09	9,952942E+08	3,724320E+08
2446	8,232736E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231364E+06	3,724634E+08	9,953268E+08	1,359719E+09	1,359744E+09	9,953840E+08	3,725175E+08
2447	8,233666E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235911E+06	3,724916E+08	9,953852E+08	1,359768E+09	1,359766E+09	9,953866E+08	3,725101E+08
2448	8,236377E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234901E+06	3,725405E+08	9,954383E+08	1,359825E+09	1,359795E+09	9,953700E+08	3,724592E+08
2449	8,231069E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230528E+06	3,724681E+08	9,953878E+08	1,359825E+09	1,359859E+09	9,954705E+08	3,725584E+08
2450	8,233851E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237395E+06	3,725425E+08	9,954558E+08	1,359852E+09	1,359850E+09	9,954367E+08	3,725029E+08
2451	8,234877E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232056E+06	3,725488E+08	9,954729E+08	1,359875E+09	1,359873E+09	9,954551E+08	3,725095E+08
2452	8,230199E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232522E+06	3,724919E+08	9,954493E+08	1,359881E+09	1,359891E+09	9,954919E+08	3,725708E+08
2453	8,235836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236293E+06	3,725661E+08	9,954924E+08	1,359887E+09	1,359856E+09	9,954148E+08	3,724777E+08
2454	8,233174E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,230250E+06	3,725059E+08	9,954287E+08	1,359852E+09	1,359865E+09	9,954555E+08	3,725306E+08
2455	8,231368E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234430E+06	3,724846E+08	9,954034E+08	1,359811E+09	1,359819E+09	9,954311E+08	3,725364E+08
2456	8,238003E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235294E+06	3,725407E+08	9,954169E+08	1,359781E+09	1,359748E+09	9,953336E+08	3,724406E+08
2457	8,230880E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232719E+06	3,724566E+08	9,953129E+08	1,359699E+09	1,359722E+09	9,953666E+08	3,725150E+08
2458	8,234388E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237204E+06	3,724851E+08	9,953185E+08	1,359657E+09	1,359645E+09	9,952907E+08	3,724616E+08
2459	8,236680E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235572E+06	3,724961E+08	9,953028E+08	1,359630E+09	1,359608E+09	9,952419E+08	3,724219E+08
2460	8,231600E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232713E+06	3,724032E+08	9,952174E+08	1,359580E+09	1,359599E+09	9,952768E+08	3,724940E+08
2461	8,238098E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237784E+06	3,724671E+08	9,952427E+08	1,359558E+09	1,359541E+09	9,951946E+08	3,724071E+08
2462	8,235283E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234028E+06	3,724421E+08	9,952098E+08	1,359538E+09	1,359548E+09	9,952230E+08	3,724389E+08
2463	8,233727E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234545E+06	3,724106E+08	9,952083E+08	1,359545E+09	1,359559E+09	9,952525E+08	3,724801E+08
2464	8,238122E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239047E+06	3,724979E+08	9,952867E+08	1,359593E+09	1,359554E+09	9,951937E+08	3,723931E+08
2465	8,233065E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232359E+06	3,724354E+08	9,952457E+08	1,359608E+09	1,359628E+09	9,952914E+08	3,724802E+08
2466	8,233875E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236220E+06	3,724522E+08	9,952862E+08	1,359644E+09	1,359650E+09	9,953030E+08	3,724794E+08
2467	8,237071E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235803E+06	3,725089E+08	9,953381E+08	1,359694E+09	1,359684E+09	9,952980E+08	3,724359E+08
2468	8,232405E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231104E+06	3,724386E+08	9,953033E+08	1,359703E+09	1,359738E+09	9,953873E+08	3,725308E+08
2469	8,234684E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237867E+06	3,725092E+08	9,953680E+08	1,359724E+09	1,359714E+09	9,953389E+08	3,724725E+08
2470	8,236120E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232593E+06	3,725160E+08	9,953870E+08	1,359756E+09	1,359743E+09	9,953541E+08	3,724754E+08
2471	8,231098E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233064E+06	3,724535E+08	9,953516E+08	1,359753E+09	1,359766E+09	9,953971E+08	3,725352E+08
2472	8,236646E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237058E+06	3,725287E+08	9,953961E+08	1,359754E+09	1,359720E+09	9,953132E+08	3,724375E+08



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°
2473	8,233654E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,231913E+06	3,724728E+08	9,953219E+08	1,359705E+09	1,359720E+09	9,953487E+08	3,724872E+08
2474	8,231585E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235614E+06	3,724471E+08	9,952864E+08	1,359646E+09	1,359660E+09	9,953193E+08	3,724946E+08
2475	8,238299E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236961E+06	3,725089E+08	9,953085E+08	1,359625E+09	1,359596E+09	9,952273E+08	3,724052E+08
2476	8,232087E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233240E+06	3,724174E+08	9,952130E+08	1,359559E+09	1,359572E+09	9,952538E+08	3,724770E+08
2477	8,235624E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237062E+06	3,724331E+08	9,951980E+08	1,359501E+09	1,359489E+09	9,951750E+08	3,724248E+08
2478	8,238289E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235878E+06	3,724486E+08	9,951841E+08	1,359476E+09	1,359457E+09	9,951315E+08	3,723857E+08
2479	8,233079E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233424E+06	3,723615E+08	9,951013E+08	1,359426E+09	1,359454E+09	9,951748E+08	3,724564E+08
2480	8,238804E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239273E+06	3,724386E+08	9,951527E+08	1,359420E+09	1,359395E+09	9,950889E+08	3,723670E+08
2481	8,235612E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235772E+06	3,724199E+08	9,951315E+08	1,359419E+09	1,359418E+09	9,951219E+08	3,723984E+08
2482	8,233860E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235255E+06	3,723769E+08	9,951189E+08	1,359428E+09	1,359441E+09	9,951619E+08	3,724461E+08
2483	8,238449E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239851E+06	3,724643E+08	9,951936E+08	1,359479E+09	1,359454E+09	9,951222E+08	3,723694E+08
2484	8,234510E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232297E+06	3,723974E+08	9,951550E+08	1,359492E+09	1,359518E+09	9,952147E+08	3,724550E+08
2485	8,234872E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236393E+06	3,724105E+08	9,951793E+08	1,359504E+09	1,359518E+09	9,952148E+08	3,724528E+08
2486	8,238348E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236639E+06	3,724795E+08	9,952459E+08	1,359558E+09	1,359544E+09	9,952002E+08	3,724042E+08
2487	8,233125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232211E+06	3,724116E+08	9,952201E+08	1,359578E+09	1,359603E+09	9,952870E+08	3,724929E+08
2488	8,234943E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238977E+06	3,724832E+08	9,952958E+08	1,359613E+09	1,359584E+09	9,952324E+08	3,724305E+08
2489	8,236399E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233835E+06	3,724864E+08	9,953018E+08	1,359641E+09	1,359620E+09	9,952529E+08	3,724327E+08
2490	8,231288E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233730E+06	3,724126E+08	9,952432E+08	1,359615E+09	1,359636E+09	9,953026E+08	3,724990E+08
2491	8,237292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238350E+06	3,724931E+08	9,952837E+08	1,359607E+09	1,359591E+09	9,952262E+08	3,724090E+08
2492	8,235023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232867E+06	3,724375E+08	9,952205E+08	1,359558E+09	1,359573E+09	9,952469E+08	3,724541E+08
2493	8,232727E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235995E+06	3,724032E+08	9,951731E+08	1,359490E+09	1,359499E+09	9,952053E+08	3,724605E+08
2494	8,239869E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237458E+06	3,724654E+08	9,951964E+08	1,359473E+09	1,359438E+09	9,951093E+08	3,723673E+08
2495	8,233408E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233572E+06	3,723704E+08	9,950965E+08	1,359407E+09	1,359423E+09	9,951421E+08	3,724357E+08
2496	8,236646E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237801E+06	3,723921E+08	9,950918E+08	1,359354E+09	1,359337E+09	9,950604E+08	3,723813E+08
2497	8,238858E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237517E+06	3,724152E+08	9,950776E+08	1,359329E+09	1,359309E+09	9,950208E+08	3,723410E+08
2498	8,233423E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234707E+06	3,723292E+08	9,949976E+08	1,359277E+09	1,359307E+09	9,950709E+08	3,724167E+08
2499	8,238965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240928E+06	3,724108E+08	9,950600E+08	1,359291E+09	1,359270E+09	9,949993E+08	3,723377E+08
2500	8,236788E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236158E+06	3,723850E+08	9,950457E+08	1,359306E+09	1,359300E+09	9,950328E+08	3,723679E+08
2501	8,234862E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234991E+06	3,723298E+08	9,950108E+08	1,359296E+09	1,359316E+09	9,950725E+08	3,724186E+08
2502	8,239845E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240003E+06	3,724227E+08	9,950888E+08	1,359344E+09	1,359325E+09	9,950328E+08	3,723411E+08
2503	8,235691E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233009E+06	3,723649E+08	9,950587E+08	1,359359E+09	1,359388E+09	9,951239E+08	3,724215E+08
2504	8,235311E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237928E+06	3,723911E+08	9,951083E+08	1,359384E+09	1,359384E+09	9,951136E+08	3,724151E+08
2505	8,238562E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238355E+06	3,724625E+08	9,951808E+08	1,359455E+09	1,359425E+09	9,951024E+08	3,723647E+08
2506	8,233225E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233091E+06	3,723825E+08	9,951394E+08	1,359471E+09	1,359493E+09	9,951991E+08	3,724578E+08
2507	8,235257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239699E+06	3,724483E+08	9,952030E+08	1,359503E+09	1,359487E+09	9,951602E+08	3,724064E+08
2508	8,237898E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233921E+06	3,724445E+08	9,952026E+08	1,359518E+09	1,359505E+09	9,951710E+08	3,724048E+08

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	8,232404E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233836E+06	3,723638E+08	9,951172E+08	1,359455E+09	1,359487E+09	9,952031E+08	3,724693E+08
2510	8,238869E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239007E+06	3,724529E+08	9,951690E+08	1,359443E+09	1,359424E+09	9,951123E+08	3,723739E+08
2511	8,236176E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233940E+06	3,723996E+08	9,951116E+08	1,359400E+09	1,359406E+09	9,951245E+08	3,724111E+08
2512	8,233617E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236951E+06	3,723662E+08	9,950704E+08	1,359340E+09	1,359334E+09	9,950753E+08	3,724121E+08
2513	8,240525E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238780E+06	3,724270E+08	9,950869E+08	1,359326E+09	1,359286E+09	9,949884E+08	3,723188E+08
2514	8,233931E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234519E+06	3,723278E+08	9,949762E+08	1,359250E+09	1,359273E+09	9,950319E+08	3,723915E+08
2515	8,237110E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239393E+06	3,723583E+08	9,949814E+08	1,359209E+09	1,359204E+09	9,949654E+08	3,723479E+08
2516	8,239877E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238730E+06	3,723846E+08	9,949875E+08	1,359199E+09	1,359174E+09	9,949229E+08	3,723067E+08
2517	8,234316E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235167E+06	3,722901E+08	9,948962E+08	1,359142E+09	1,359170E+09	9,949720E+08	3,723864E+08
2518	8,240240E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241330E+06	3,723719E+08	9,949624E+08	1,359162E+09	1,359139E+09	9,949052E+08	3,723088E+08
2519	8,238094E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236373E+06	3,723437E+08	9,949433E+08	1,359175E+09	1,359176E+09	9,949436E+08	3,723357E+08
2520	8,235759E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235724E+06	3,722962E+08	9,949160E+08	1,359165E+09	1,359184E+09	9,949749E+08	3,723819E+08
2521	8,240203E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241489E+06	3,723969E+08	9,949986E+08	1,359216E+09	1,359196E+09	9,949355E+08	3,723017E+08
2522	8,235798E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234247E+06	3,723418E+08	9,949770E+08	1,359236E+09	1,359260E+09	9,950297E+08	3,723839E+08
2523	8,235257E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239386E+06	3,723691E+08	9,950359E+08	1,359285E+09	1,359280E+09	9,950314E+08	3,723871E+08
2524	8,239620E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238548E+06	3,724300E+08	9,951051E+08	1,359359E+09	1,359323E+09	9,950208E+08	3,723363E+08
2525	8,234292E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,232763E+06	3,723355E+08	9,950320E+08	1,359343E+09	1,359375E+09	9,951158E+08	3,724326E+08
2526	8,236942E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239738E+06	3,724035E+08	9,950897E+08	1,359357E+09	1,359351E+09	9,950708E+08	3,723795E+08
2527	8,239339E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234678E+06	3,724049E+08	9,950893E+08	1,359364E+09	1,359359E+09	9,950709E+08	3,723694E+08
2528	8,233191E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235300E+06	3,723358E+08	9,950212E+08	1,359304E+09	1,359326E+09	9,950836E+08	3,724261E+08
2529	8,239413E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240568E+06	3,724228E+08	9,950732E+08	1,359304E+09	1,359271E+09	9,949912E+08	3,723268E+08
2530	8,236455E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235072E+06	3,723632E+08	9,950064E+08	1,359257E+09	1,359259E+09	9,950098E+08	3,723652E+08
2531	8,234092E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238008E+06	3,723277E+08	9,949619E+08	1,359203E+09	1,359205E+09	9,949757E+08	3,723761E+08
2532	8,241718E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239470E+06	3,723853E+08	9,949783E+08	1,359185E+09	1,359149E+09	9,948888E+08	3,722825E+08
2533	8,234877E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235068E+06	3,722832E+08	9,948531E+08	1,359087E+09	1,359120E+09	9,949268E+08	3,723573E+08
2534	8,238439E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240220E+06	3,723214E+08	9,948752E+08	1,359054E+09	1,359046E+09	9,948579E+08	3,723143E+08
2535	8,240931E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239604E+06	3,723463E+08	9,948859E+08	1,359060E+09	1,359030E+09	9,948160E+08	3,722692E+08
2536	8,235311E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235904E+06	3,722548E+08	9,947981E+08	1,359006E+09	1,359027E+09	9,948610E+08	3,723453E+08
2537	8,240868E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242212E+06	3,723339E+08	9,948596E+08	1,359028E+09	1,359008E+09	9,948042E+08	3,722688E+08
2538	8,238641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237233E+06	3,723086E+08	9,948387E+08	1,359036E+09	1,359044E+09	9,948499E+08	3,722985E+08
2539	8,236072E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237181E+06	3,722709E+08	9,948276E+08	1,359044E+09	1,359070E+09	9,948926E+08	3,723536E+08
2540	8,241017E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242393E+06	3,723738E+08	9,949297E+08	1,359113E+09	1,359086E+09	9,948535E+08	3,722738E+08
2541	8,236652E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,234407E+06	3,723078E+08	9,948920E+08	1,359125E+09	1,359148E+09	9,949454E+08	3,723575E+08
2542	8,236492E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239449E+06	3,723328E+08	9,949494E+08	1,359172E+09	1,359167E+09	9,949517E+08	3,723625E+08
2543	8,240971E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238512E+06	3,723883E+08	9,950067E+08	1,359236E+09	1,359209E+09	9,949394E+08	3,723067E+08
2544	8,235301E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,233611E+06	3,723009E+08	9,949284E+08	1,359200E+09	1,359236E+09	9,950156E+08	3,723952E+08

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	8,237466E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241154E+06	3,723726E+08	9,949860E+08	1,359209E+09	1,359204E+09	9,949632E+08	3,723368E+08
2546	8,239484E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236342E+06	3,723771E+08	9,949894E+08	1,359212E+09	1,359202E+09	9,949567E+08	3,723247E+08
2547	8,233210E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236947E+06	3,723075E+08	9,949286E+08	1,359176E+09	1,359190E+09	9,949746E+08	3,723866E+08
2548	8,240306E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241145E+06	3,723850E+08	9,949769E+08	1,359176E+09	1,359138E+09	9,948852E+08	3,722876E+08
2549	8,237312E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235179E+06	3,723136E+08	9,948841E+08	1,359104E+09	1,359114E+09	9,949036E+08	3,723292E+08
2550	8,235690E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238382E+06	3,722834E+08	9,948436E+08	1,359043E+09	1,359051E+09	9,948723E+08	3,723423E+08
2551	8,243006E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240421E+06	3,723449E+08	9,948648E+08	1,359028E+09	1,358997E+09	9,947832E+08	3,722459E+08
2552	8,235946E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236479E+06	3,722532E+08	9,947541E+08	1,358938E+09	1,358962E+09	9,948101E+08	3,723156E+08
2553	8,239232E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241402E+06	3,722866E+08	9,947762E+08	1,358919E+09	1,358905E+09	9,947477E+08	3,722722E+08
2554	8,241426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240486E+06	3,723070E+08	9,947791E+08	1,358921E+09	1,358896E+09	9,947167E+08	3,722306E+08
2555	8,235948E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236697E+06	3,722173E+08	9,946956E+08	1,358880E+09	1,358910E+09	9,947737E+08	3,723144E+08
2556	8,241827E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242691E+06	3,722961E+08	9,947600E+08	1,358898E+09	1,358884E+09	9,947167E+08	3,722375E+08
2557	8,239409E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237652E+06	3,722730E+08	9,947360E+08	1,358893E+09	1,358908E+09	9,947575E+08	3,722689E+08
2558	8,237169E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237964E+06	3,722446E+08	9,947477E+08	1,358918E+09	1,358936E+09	9,948011E+08	3,723250E+08
2559	8,241894E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242867E+06	3,723415E+08	9,948490E+08	1,359003E+09	1,358970E+09	9,947653E+08	3,722434E+08
2560	8,237702E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235015E+06	3,722777E+08	9,948081E+08	1,359010E+09	1,359029E+09	9,948514E+08	3,723215E+08
2561	8,237076E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240109E+06	3,722965E+08	9,948533E+08	1,359049E+09	1,359050E+09	9,948620E+08	3,723255E+08
2562	8,241346E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239500E+06	3,723547E+08	9,949044E+08	1,359098E+09	1,359079E+09	9,948483E+08	3,722694E+08
2563	8,235396E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235392E+06	3,722773E+08	9,948395E+08	1,359073E+09	1,359110E+09	9,949230E+08	3,723619E+08
2564	8,238061E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242177E+06	3,723455E+08	9,949048E+08	1,359088E+09	1,359074E+09	9,948664E+08	3,723025E+08
2565	8,240154E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236799E+06	3,723388E+08	9,948887E+08	1,359077E+09	1,359065E+09	9,948546E+08	3,722916E+08
2566	8,234609E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237132E+06	3,722663E+08	9,948258E+08	1,359036E+09	1,359049E+09	9,948755E+08	3,723542E+08
2567	8,241744E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241148E+06	3,723357E+08	9,948610E+08	1,359029E+09	1,358998E+09	9,947850E+08	3,722531E+08
2568	8,238586E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236134E+06	3,722733E+08	9,947651E+08	1,358941E+09	1,358954E+09	9,947871E+08	3,722858E+08
2569	8,236548E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239629E+06	3,722468E+08	9,947304E+08	1,358882E+09	1,358890E+09	9,947550E+08	3,722965E+08
2570	8,243288E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242087E+06	3,723113E+08	9,947579E+08	1,358872E+09	1,358837E+09	9,946669E+08	3,722018E+08
2571	8,236331E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237944E+06	3,722196E+08	9,946539E+08	1,358805E+09	1,358824E+09	9,947024E+08	3,722776E+08
2572	8,240282E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241830E+06	3,722446E+08	9,946718E+08	1,358786E+09	1,358775E+09	9,946490E+08	3,722362E+08
2573	8,242306E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240679E+06	3,722586E+08	9,946555E+08	1,358765E+09	1,358753E+09	9,946179E+08	3,721981E+08
2574	8,237368E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237170E+06	3,721804E+08	9,945893E+08	1,358729E+09	1,358764E+09	9,946784E+08	3,722833E+08
2575	8,242731E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243528E+06	3,722643E+08	9,946695E+08	1,358766E+09	1,358750E+09	9,946233E+08	3,722066E+08
2576	8,240326E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238884E+06	3,722517E+08	9,946612E+08	1,358775E+09	1,358775E+09	9,946555E+08	3,722315E+08
2577	8,237724E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238993E+06	3,722187E+08	9,946743E+08	1,358816E+09	1,358825E+09	9,947099E+08	3,722878E+08
2578	8,242102E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243692E+06	3,723101E+08	9,947641E+08	1,358892E+09	1,358862E+09	9,946854E+08	3,722107E+08
2579	8,238129E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,235957E+06	3,722465E+08	9,947219E+08	1,358906E+09	1,358930E+09	9,947762E+08	3,722929E+08
2580	8,237629E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240678E+06	3,722626E+08	9,947607E+08	1,358928E+09	1,358937E+09	9,947819E+08	3,722955E+08

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°
2581	8,241836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239978E+06	3,723186E+08	9,948012E+08	1,358953E+09	1,358940E+09	9,947549E+08	3,722395E+08
2582	8,236368E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236187E+06	3,722478E+08	9,947518E+08	1,358935E+09	1,358963E+09	9,948226E+08	3,723307E+08
2583	8,239181E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242357E+06	3,723046E+08	9,948076E+08	1,358957E+09	1,358938E+09	9,947639E+08	3,722694E+08
2584	8,241531E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237418E+06	3,723000E+08	9,947824E+08	1,358932E+09	1,358917E+09	9,947412E+08	3,722503E+08
2585	8,235744E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237830E+06	3,722235E+08	9,947115E+08	1,358886E+09	1,358903E+09	9,947651E+08	3,723095E+08
2586	8,242296E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242383E+06	3,722965E+08	9,947432E+08	1,358867E+09	1,358844E+09	9,946771E+08	3,722115E+08
2587	8,238975E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238046E+06	3,722435E+08	9,946666E+08	1,358802E+09	1,358810E+09	9,946798E+08	3,722467E+08
2588	8,237319E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240677E+06	3,722125E+08	9,946343E+08	1,358748E+09	1,358750E+09	9,946494E+08	3,722581E+08
2589	8,243906E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242638E+06	3,722668E+08	9,946437E+08	1,358723E+09	1,358691E+09	9,945621E+08	3,721681E+08
2590	8,237799E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238300E+06	3,721783E+08	9,945448E+08	1,358653E+09	1,358676E+09	9,946036E+08	3,722463E+08
2591	8,241725E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241868E+06	3,721954E+08	9,945541E+08	1,358636E+09	1,358633E+09	9,945512E+08	3,722043E+08
2592	8,243507E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241735E+06	3,722239E+08	9,945455E+08	1,358608E+09	1,358598E+09	9,945067E+08	3,721580E+08
2593	8,238152E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238354E+06	3,721526E+08	9,944984E+08	1,358592E+09	1,358620E+09	9,945699E+08	3,722397E+08
2594	8,242630E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245017E+06	3,722391E+08	9,945900E+08	1,358647E+09	1,358620E+09	9,945246E+08	3,721690E+08
2595	8,240578E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240070E+06	3,722264E+08	9,945915E+08	1,358685E+09	1,358675E+09	9,945692E+08	3,721987E+08
2596	8,238356E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239337E+06	3,721847E+08	9,945935E+08	1,358717E+09	1,358730E+09	9,946356E+08	3,722587E+08
2597	8,242694E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243709E+06	3,722676E+08	9,946594E+08	1,358763E+09	1,358748E+09	9,946093E+08	3,721866E+08
2598	8,239421E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236514E+06	3,722146E+08	9,946268E+08	1,358767E+09	1,358799E+09	9,946958E+08	3,722686E+08
2599	8,238633E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241154E+06	3,722273E+08	9,946679E+08	1,358798E+09	1,358806E+09	9,946935E+08	3,722689E+08
2600	8,243057E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240941E+06	3,722895E+08	9,947118E+08	1,358821E+09	1,358797E+09	9,946470E+08	3,722028E+08
2601	8,237302E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,236973E+06	3,722138E+08	9,946607E+08	1,358811E+09	1,358831E+09	9,947158E+08	3,722881E+08
2602	8,239628E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243150E+06	3,722664E+08	9,947058E+08	1,358821E+09	1,358802E+09	9,946628E+08	3,722303E+08
2603	8,242102E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238680E+06	3,722631E+08	9,946805E+08	1,358802E+09	1,358785E+09	9,946391E+08	3,722108E+08
2604	8,236373E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238935E+06	3,721877E+08	9,946051E+08	1,358740E+09	1,358762E+09	9,946627E+08	3,722694E+08
2605	8,242691E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243420E+06	3,722579E+08	9,946280E+08	1,358703E+09	1,358682E+09	9,945663E+08	3,721749E+08
2606	8,239960E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239252E+06	3,722091E+08	9,945638E+08	1,358647E+09	1,358649E+09	9,945687E+08	3,722116E+08
2607	8,238670E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240869E+06	3,721646E+08	9,945208E+08	1,358603E+09	1,358603E+09	9,945416E+08	3,722236E+08
2608	8,245347E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243284E+06	3,722211E+08	9,945217E+08	1,358561E+09	1,358531E+09	9,944440E+08	3,721269E+08
2609	8,239071E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238975E+06	3,721359E+08	9,944285E+08	1,358497E+09	1,358522E+09	9,944880E+08	3,722006E+08
2610	8,242136E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243261E+06	3,721619E+08	9,944478E+08	1,358483E+09	1,358481E+09	9,944436E+08	3,721641E+08
2611	8,243760E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243563E+06	3,722014E+08	9,944687E+08	1,358495E+09	1,358470E+09	9,944069E+08	3,721208E+08
2612	8,238710E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239397E+06	3,721280E+08	9,944281E+08	1,358494E+09	1,358513E+09	9,944836E+08	3,722059E+08
2613	8,242942E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245365E+06	3,722026E+08	9,945008E+08	1,358535E+09	1,358514E+09	9,944475E+08	3,721447E+08
2614	8,241920E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240142E+06	3,721906E+08	9,945035E+08	1,358569E+09	1,358568E+09	9,945000E+08	3,721775E+08
2615	8,239683E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239087E+06	3,721394E+08	9,944902E+08	1,358594E+09	1,358618E+09	9,945617E+08	3,722361E+08
2616	8,243891E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244382E+06	3,722329E+08	9,945551E+08	1,358618E+09	1,358608E+09	9,945128E+08	3,721537E+08



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°
2617	8,240279E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237598E+06	3,721878E+08	9,945392E+08	1,358632E+09	1,358656E+09	9,945887E+08	3,722275E+08
2618	8,238669E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242524E+06	3,721996E+08	9,945811E+08	1,358669E+09	1,358667E+09	9,945881E+08	3,722308E+08
2619	8,243547E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242222E+06	3,722608E+08	9,946315E+08	1,358715E+09	1,358676E+09	9,945460E+08	3,721646E+08
2620	8,237939E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237765E+06	3,721782E+08	9,945666E+08	1,358690E+09	1,358710E+09	9,946204E+08	3,722485E+08
2621	8,240058E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243585E+06	3,722229E+08	9,945906E+08	1,358672E+09	1,358662E+09	9,945657E+08	3,721972E+08
2622	8,243161E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239810E+06	3,722303E+08	9,945775E+08	1,358648E+09	1,358636E+09	9,945414E+08	3,721788E+08
2623	8,237516E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239552E+06	3,721476E+08	9,945001E+08	1,358595E+09	1,358615E+09	9,945599E+08	3,722378E+08
2624	8,244123E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244359E+06	3,722189E+08	9,945187E+08	1,358551E+09	1,358524E+09	9,944485E+08	3,721365E+08
2625	8,241340E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240032E+06	3,721669E+08	9,944521E+08	1,358498E+09	1,358497E+09	9,944513E+08	3,721676E+08
2626	8,239553E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241626E+06	3,721196E+08	9,944001E+08	1,358445E+09	1,358451E+09	9,944314E+08	3,721831E+08
2627	8,246058E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244561E+06	3,721816E+08	9,944123E+08	1,358419E+09	1,358386E+09	9,943338E+08	3,720850E+08
2628	8,239654E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240164E+06	3,721040E+08	9,943277E+08	1,358355E+09	1,358380E+09	9,943824E+08	3,721573E+08
2629	8,242196E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244260E+06	3,721294E+08	9,943511E+08	1,358342E+09	1,358336E+09	9,943406E+08	3,721299E+08
2630	8,244566E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244533E+06	3,721732E+08	9,943867E+08	1,358373E+09	1,358343E+09	9,943170E+08	3,720923E+08
2631	8,240113E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239338E+06	3,720865E+08	9,943349E+08	1,358382E+09	1,358405E+09	9,944033E+08	3,721805E+08
2632	8,244322E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245746E+06	3,721617E+08	9,943949E+08	1,358402E+09	1,358389E+09	9,943584E+08	3,721150E+08
2633	8,243229E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240612E+06	3,721536E+08	9,944021E+08	1,358435E+09	1,358440E+09	9,944069E+08	3,721411E+08
2634	8,239948E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240448E+06	3,721113E+08	9,943955E+08	1,358458E+09	1,358484E+09	9,944685E+08	3,722017E+08
2635	8,244049E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245972E+06	3,722113E+08	9,944839E+08	1,358512E+09	1,358483E+09	9,944147E+08	3,721167E+08
2636	8,240551E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238837E+06	3,721659E+08	9,944695E+08	1,358531E+09	1,358543E+09	9,944956E+08	3,721893E+08
2637	8,238805E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243118E+06	3,721660E+08	9,944913E+08	1,358550E+09	1,358548E+09	9,944989E+08	3,722007E+08
2638	8,244694E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242693E+06	3,722257E+08	9,945371E+08	1,358586E+09	1,358555E+09	9,944640E+08	3,721380E+08
2639	8,239342E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,237860E+06	3,721327E+08	9,944564E+08	1,358554E+09	1,358584E+09	9,945325E+08	3,722198E+08
2640	8,241424E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244304E+06	3,721830E+08	9,944738E+08	1,358510E+09	1,358505E+09	9,944558E+08	3,721604E+08
2641	8,244266E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240889E+06	3,721941E+08	9,944730E+08	1,358497E+09	1,358476E+09	9,944204E+08	3,721340E+08
2642	8,238014E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240801E+06	3,721099E+08	9,943904E+08	1,358444E+09	1,358457E+09	9,944417E+08	3,721959E+08
2643	8,244984E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245449E+06	3,721784E+08	9,944135E+08	1,358415E+09	1,358379E+09	9,943327E+08	3,720927E+08
2644	8,242111E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241101E+06	3,721265E+08	9,943388E+08	1,358349E+09	1,358353E+09	9,943410E+08	3,721227E+08
2645	8,240109E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242347E+06	3,720768E+08	9,942766E+08	1,358279E+09	1,358294E+09	9,943224E+08	3,721454E+08
2646	8,246923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245873E+06	3,721507E+08	9,943106E+08	1,358266E+09	1,358237E+09	9,942344E+08	3,720527E+08
2647	8,240894E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240713E+06	3,720679E+08	9,942348E+08	1,358228E+09	1,358249E+09	9,942868E+08	3,721261E+08
2648	8,243412E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244956E+06	3,720940E+08	9,942560E+08	1,358214E+09	1,358205E+09	9,942414E+08	3,720973E+08
2649	8,245832E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244962E+06	3,721361E+08	9,942945E+08	1,358253E+09	1,358224E+09	9,942238E+08	3,720567E+08
2650	8,240875E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240017E+06	3,720486E+08	9,942324E+08	1,358252E+09	1,358283E+09	9,943175E+08	3,721486E+08
2651	8,244824E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246831E+06	3,721292E+08	9,943033E+08	1,358283E+09	1,358269E+09	9,942686E+08	3,720797E+08
2652	8,243514E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241952E+06	3,721301E+08	9,943168E+08	1,358309E+09	1,358314E+09	9,943138E+08	3,721021E+08

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude °	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												
2653	8,239676E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241501E+06	3,720852E+08	9,943108E+08	1,358331E+09	1,358351E+09	9,943724E+08	3,721695E+08
2654	8,244646E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246778E+06	3,721855E+08	9,944073E+08	1,358399E+09	1,358367E+09	9,943301E+08	3,720905E+08
2655	8,241969E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,238658E+06	3,721254E+08	9,943780E+08	1,358421E+09	1,358435E+09	9,944135E+08	3,721623E+08
2656	8,240295E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243325E+06	3,721235E+08	9,943829E+08	1,358412E+09	1,358418E+09	9,944043E+08	3,721687E+08
2657	8,246135E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243192E+06	3,721868E+08	9,944306E+08	1,358443E+09	1,358416E+09	9,943610E+08	3,720992E+08
2658	8,239894E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239305E+06	3,721004E+08	9,943514E+08	1,358405E+09	1,358436E+09	9,944277E+08	3,721816E+08
2659	8,242027E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245725E+06	3,721525E+08	9,943850E+08	1,358383E+09	1,358363E+09	9,943443E+08	3,721186E+08
2660	8,244747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242356E+06	3,721616E+08	9,943757E+08	1,358365E+09	1,358339E+09	9,943122E+08	3,720899E+08
2661	8,238378E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241498E+06	3,720681E+08	9,942744E+08	1,358291E+09	1,358309E+09	9,943348E+08	3,721588E+08
2662	8,246116E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246153E+06	3,721361E+08	9,942957E+08	1,358256E+09	1,358232E+09	9,942331E+08	3,720595E+08
2663	8,243479E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241534E+06	3,720803E+08	9,942171E+08	1,358191E+09	1,358202E+09	9,942360E+08	3,720865E+08
2664	8,241365E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243281E+06	3,720395E+08	9,941611E+08	1,358111E+09	1,358126E+09	9,942029E+08	3,721041E+08
2665	8,247794E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246942E+06	3,721171E+08	9,942147E+08	1,358125E+09	1,358084E+09	9,941159E+08	3,720100E+08
2666	8,241531E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241844E+06	3,720342E+08	9,941391E+08	1,358099E+09	1,358114E+09	9,941832E+08	3,720883E+08
2667	8,244179E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245820E+06	3,720579E+08	9,941662E+08	1,358100E+09	1,358085E+09	9,941448E+08	3,720592E+08
2668	8,246346E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245939E+06	3,721016E+08	9,941973E+08	1,358129E+09	1,358108E+09	9,941367E+08	3,720192E+08
2669	8,241105E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240840E+06	3,720163E+08	9,941303E+08	1,358111E+09	1,358153E+09	9,942300E+08	3,721182E+08
2670	8,245304E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247855E+06	3,721035E+08	9,942176E+08	1,358154E+09	1,358146E+09	9,941893E+08	3,720552E+08
2671	8,244713E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242214E+06	3,720990E+08	9,942381E+08	1,358202E+09	1,358202E+09	9,942323E+08	3,720769E+08
2672	8,240943E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241880E+06	3,720519E+08	9,942233E+08	1,358212E+09	1,358231E+09	9,942815E+08	3,721405E+08
2673	8,245990E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246810E+06	3,721486E+08	9,943194E+08	1,358284E+09	1,358251E+09	9,942399E+08	3,720585E+08
2674	8,242914E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,239320E+06	3,720882E+08	9,942776E+08	1,358292E+09	1,358313E+09	9,943252E+08	3,721289E+08
2675	8,240943E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244372E+06	3,720908E+08	9,942896E+08	1,358285E+09	1,358287E+09	9,943061E+08	3,721284E+08
2676	8,246254E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244764E+06	3,721607E+08	9,943387E+08	1,358306E+09	1,358277E+09	9,942579E+08	3,720552E+08
2677	8,239682E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240681E+06	3,720703E+08	9,942521E+08	1,358259E+09	1,358285E+09	9,943182E+08	3,721436E+08
2678	8,242784E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246581E+06	3,721163E+08	9,942818E+08	1,358242E+09	1,358226E+09	9,942458E+08	3,720865E+08
2679	8,246260E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242573E+06	3,721132E+08	9,942583E+08	1,358219E+09	1,358200E+09	9,942115E+08	3,720565E+08
2680	8,239995E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241843E+06	3,720199E+08	9,941447E+08	1,358118E+09	1,358145E+09	9,942191E+08	3,721195E+08
2681	8,247498E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246813E+06	3,720942E+08	9,941789E+08	1,358091E+09	1,358066E+09	9,941122E+08	3,720164E+08
2682	8,244064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243018E+06	3,720470E+08	9,941112E+08	1,358036E+09	1,358042E+09	9,941191E+08	3,720437E+08
2683	8,242080E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244582E+06	3,720100E+08	9,940778E+08	1,357990E+09	1,357987E+09	9,940903E+08	3,720599E+08
2684	8,248083E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248366E+06	3,720864E+08	9,941250E+08	1,358005E+09	1,357962E+09	9,940186E+08	3,719695E+08
2685	8,241978E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242449E+06	3,719959E+08	9,940349E+08	1,357965E+09	1,357989E+09	9,940947E+08	3,720574E+08
2686	8,245143E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246276E+06	3,720181E+08	9,940605E+08	1,357966E+09	1,357969E+09	9,940695E+08	3,720355E+08
2687	8,247705E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246074E+06	3,720597E+08	9,940897E+08	1,357992E+09	1,357983E+09	9,940547E+08	3,719926E+08
2688	8,242240E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241404E+06	3,719838E+08	9,940313E+08	1,357964E+09	1,358006E+09	9,941292E+08	3,720855E+08

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°
2689	8,246115E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248401E+06	3,720730E+08	9,941360E+08	1,358031E+09	1,358011E+09	9,940858E+08	3,720203E+08
2690	8,245422E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243076E+06	3,720692E+08	9,941540E+08	1,358088E+09	1,358082E+09	9,941386E+08	3,720425E+08
2691	8,241721E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242774E+06	3,720220E+08	9,941456E+08	1,358108E+09	1,358118E+09	9,941891E+08	3,721014E+08
2692	8,246229E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247992E+06	3,721194E+08	9,942301E+08	1,358164E+09	1,358136E+09	9,941530E+08	3,720199E+08
2693	8,242931E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,240595E+06	3,720601E+08	9,941819E+08	1,358155E+09	1,358181E+09	9,942336E+08	3,720944E+08
2694	8,241204E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245554E+06	3,720636E+08	9,942007E+08	1,358154E+09	1,358161E+09	9,942206E+08	3,721000E+08
2695	8,247319E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245209E+06	3,721234E+08	9,942456E+08	1,358182E+09	1,358152E+09	9,941667E+08	3,720256E+08
2696	8,240973E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241191E+06	3,720299E+08	9,941430E+08	1,358110E+09	1,358138E+09	9,942120E+08	3,721094E+08
2697	8,244365E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246567E+06	3,720689E+08	9,941670E+08	1,358090E+09	1,358075E+09	9,941352E+08	3,720495E+08
2698	8,247399E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243493E+06	3,720683E+08	9,941343E+08	1,358055E+09	1,358043E+09	9,940987E+08	3,720160E+08
2699	8,241009E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243019E+06	3,719836E+08	9,940370E+08	1,357962E+09	1,357982E+09	9,940951E+08	3,720689E+08
2700	8,247511E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248504E+06	3,720644E+08	9,940800E+08	1,357941E+09	1,357908E+09	9,939933E+08	3,719680E+08
2701	8,244009E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244373E+06	3,720150E+08	9,940135E+08	1,357894E+09	1,357891E+09	9,940065E+08	3,720036E+08
2702	8,242923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245249E+06	3,719715E+08	9,939759E+08	1,357859E+09	1,357865E+09	9,940014E+08	3,720303E+08
2703	8,249577E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248461E+06	3,720384E+08	9,940135E+08	1,357871E+09	1,357842E+09	9,939356E+08	3,719430E+08
2704	8,243673E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242687E+06	3,719517E+08	9,939144E+08	1,357806E+09	1,357844E+09	9,939982E+08	3,720267E+08
2705	8,246444E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246695E+06	3,719799E+08	9,939565E+08	1,357819E+09	1,357823E+09	9,939681E+08	3,720020E+08
2706	8,248301E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247314E+06	3,720312E+08	9,940004E+08	1,357860E+09	1,357845E+09	9,939555E+08	3,719580E+08
2707	8,242879E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242532E+06	3,719616E+08	9,939659E+08	1,357863E+09	1,357884E+09	9,940288E+08	3,720443E+08
2708	8,245989E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249659E+06	3,720497E+08	9,940657E+08	1,357932E+09	1,357906E+09	9,940003E+08	3,719840E+08
2709	8,245644E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243843E+06	3,720401E+08	9,940711E+08	1,357976E+09	1,357972E+09	9,940583E+08	3,720122E+08
2710	8,242290E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243541E+06	3,719900E+08	9,940541E+08	1,357992E+09	1,358017E+09	9,941202E+08	3,720769E+08
2711	8,247262E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248352E+06	3,720831E+08	9,941339E+08	1,358037E+09	1,358019E+09	9,940748E+08	3,719938E+08
2712	8,243923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,241261E+06	3,720262E+08	9,940829E+08	1,358009E+09	1,358033E+09	9,941323E+08	3,720625E+08
2713	8,242259E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245750E+06	3,720241E+08	9,941048E+08	1,358021E+09	1,358016E+09	9,941121E+08	3,720657E+08
2714	8,248411E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245837E+06	3,720802E+08	9,941349E+08	1,358038E+09	1,358008E+09	9,940592E+08	3,719889E+08
2715	8,242195E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242012E+06	3,719902E+08	9,940382E+08	1,357965E+09	1,357988E+09	9,940950E+08	3,720626E+08
2716	8,244886E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247859E+06	3,720321E+08	9,940542E+08	1,357933E+09	1,357920E+09	9,940210E+08	3,720032E+08
2717	8,247572E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245056E+06	3,720354E+08	9,940237E+08	1,357892E+09	1,357879E+09	9,939818E+08	3,719729E+08
2718	8,241570E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244326E+06	3,719520E+08	9,939385E+08	1,357822E+09	1,357843E+09	9,939940E+08	3,720336E+08
2719	8,248640E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249059E+06	3,720231E+08	9,939793E+08	1,357812E+09	1,357779E+09	9,938979E+08	3,719374E+08
2720	8,245457E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244760E+06	3,719707E+08	9,939006E+08	1,357746E+09	1,357749E+09	9,939053E+08	3,719712E+08
2721	8,244617E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245172E+06	3,719233E+08	9,938621E+08	1,357713E+09	1,357723E+09	9,939010E+08	3,719977E+08
2722	8,250590E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249394E+06	3,719950E+08	9,938942E+08	1,357716E+09	1,357697E+09	9,938356E+08	3,719077E+08
2723	8,244533E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243985E+06	3,719242E+08	9,938218E+08	1,357662E+09	1,357692E+09	9,938850E+08	3,719802E+08
2724	8,246121E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248474E+06	3,719581E+08	9,938756E+08	1,357690E+09	1,357682E+09	9,938614E+08	3,719590E+08

1	2	3	4	5	6	7	8	9	10	11	12	13
Longitude ⊙	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	8,248064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248668E+06	3,720076E+08	9,939235E+08	1,357746E+09	1,357719E+09	9,938571E+08	3,719222E+08
2726	8,243418E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243275E+06	3,719325E+08	9,938868E+08	1,357764E+09	1,357791E+09	9,939548E+08	3,720174E+08
2727	8,247053E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249715E+06	3,720107E+08	9,939770E+08	1,357827E+09	1,357811E+09	9,939332E+08	3,719625E+08
2728	8,247075E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244011E+06	3,720028E+08	9,939716E+08	1,357843E+09	1,357849E+09	9,939756E+08	3,719860E+08
2729	8,243454E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243785E+06	3,719544E+08	9,939615E+08	1,357861E+09	1,357884E+09	9,940289E+08	3,720483E+08
2730	8,248087E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249196E+06	3,720493E+08	9,940414E+08	1,357909E+09	1,357887E+09	9,939801E+08	3,719627E+08
2731	8,244962E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242343E+06	3,719973E+08	9,940002E+08	1,357887E+09	1,357897E+09	9,940235E+08	3,720201E+08
2732	8,242547E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246818E+06	3,719895E+08	9,940074E+08	1,357889E+09	1,357884E+09	9,940101E+08	3,720258E+08
2733	8,248973E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246784E+06	3,720415E+08	9,940256E+08	1,357891E+09	1,357862E+09	9,939548E+08	3,719514E+08
2734	8,242965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243039E+06	3,719511E+08	9,939234E+08	1,357817E+09	1,357851E+09	9,939965E+08	3,720260E+08
2735	8,245867E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248524E+06	3,719924E+08	9,939449E+08	1,357781E+09	1,357772E+09	9,939169E+08	3,719673E+08
2736	8,248467E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245994E+06	3,719977E+08	9,939155E+08	1,357733E+09	1,357712E+09	9,938625E+08	3,719337E+08
2737	8,242845E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244686E+06	3,719098E+08	9,938342E+08	1,357680E+09	1,357690E+09	9,938788E+08	3,719959E+08
2738	8,249810E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249848E+06	3,719772E+08	9,938626E+08	1,357665E+09	1,357636E+09	9,937928E+08	3,719019E+08
2739	8,246837E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245796E+06	3,719316E+08	9,937927E+08	1,357598E+09	1,357600E+09	9,937927E+08	3,719263E+08
2740	8,245056E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246577E+06	3,718888E+08	9,937527E+08	1,357562E+09	1,357575E+09	9,937947E+08	3,719549E+08
2741	8,250556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250979E+06	3,719664E+08	9,937962E+08	1,357569E+09	1,357547E+09	9,937292E+08	3,718689E+08
2742	8,244882E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245178E+06	3,718987E+08	9,937402E+08	1,357548E+09	1,357576E+09	9,937956E+08	3,719480E+08
2743	8,246908E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248936E+06	3,719258E+08	9,937968E+08	1,357589E+09	1,357579E+09	9,937829E+08	3,719344E+08
2744	8,249350E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248674E+06	3,719702E+08	9,938329E+08	1,357629E+09	1,357606E+09	9,937763E+08	3,718985E+08
2745	8,245162E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,242974E+06	3,718913E+08	9,937947E+08	1,357650E+09	1,357679E+09	9,938758E+08	3,719931E+08
2746	8,248159E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250271E+06	3,719711E+08	9,938723E+08	1,357696E+09	1,357690E+09	9,938508E+08	3,719349E+08
2747	8,248084E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245047E+06	3,719767E+08	9,938873E+08	1,357712E+09	1,357711E+09	9,938725E+08	3,719440E+08
2748	8,243220E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245306E+06	3,719299E+08	9,938785E+08	1,357735E+09	1,357748E+09	9,939254E+08	3,720076E+08
2749	8,248119E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250282E+06	3,720179E+08	9,939498E+08	1,357781E+09	1,357752E+09	9,938764E+08	3,719252E+08
2750	8,245601E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243325E+06	3,719623E+08	9,939012E+08	1,357764E+09	1,357781E+09	9,939325E+08	3,719866E+08
2751	8,243709E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247268E+06	3,719475E+08	9,938982E+08	1,357750E+09	1,357754E+09	9,939180E+08	3,719949E+08
2752	8,250282E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247470E+06	3,720010E+08	9,939090E+08	1,357728E+09	1,357705E+09	9,938455E+08	3,719158E+08
2753	8,244157E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243736E+06	3,719141E+08	9,938212E+08	1,357667E+09	1,357691E+09	9,938819E+08	3,719872E+08
2754	8,246715E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249537E+06	3,719544E+08	9,938414E+08	1,357639E+09	1,357623E+09	9,938061E+08	3,719294E+08
2755	8,249490E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247255E+06	3,719645E+08	9,938218E+08	1,357598E+09	1,357566E+09	9,937448E+08	3,718868E+08
2756	8,243342E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245856E+06	3,718720E+08	9,937272E+08	1,357539E+09	1,357550E+09	9,937734E+08	3,719546E+08
2757	8,250436E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250912E+06	3,719350E+08	9,937452E+08	1,357512E+09	1,357490E+09	9,936886E+08	3,718647E+08
2758	8,247650E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247021E+06	3,718936E+08	9,936768E+08	1,357450E+09	1,357466E+09	9,936962E+08	3,718910E+08
2759	8,245970E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247276E+06	3,718530E+08	9,936497E+08	1,357418E+09	1,357434E+09	9,936975E+08	3,719228E+08
2760	8,251363E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251525E+06	3,719307E+08	9,936994E+08	1,357429E+09	1,357399E+09	9,936235E+08	3,718369E+08



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	8,246294E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245096E+06	3,718605E+08	9,936514E+08	1,357430E+09	1,357446E+09	9,936982E+08	3,719168E+08
2762	8,248082E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249302E+06	3,718853E+08	9,936990E+08	1,357470E+09	1,357466E+09	9,936988E+08	3,719065E+08
2763	8,250741E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249433E+06	3,719393E+08	9,937443E+08	1,357506E+09	1,357484E+09	9,936831E+08	3,718603E+08
2764	8,245511E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244334E+06	3,718649E+08	9,937051E+08	1,357524E+09	1,357556E+09	9,937863E+08	3,719563E+08
2765	8,248077E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251705E+06	3,719468E+08	9,937895E+08	1,357572E+09	1,357562E+09	9,937589E+08	3,719014E+08
2766	8,248396E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246220E+06	3,719509E+08	9,938077E+08	1,357608E+09	1,357606E+09	9,937894E+08	3,719130E+08
2767	8,243848E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245856E+06	3,718973E+08	9,937927E+08	1,357625E+09	1,357640E+09	9,938450E+08	3,719809E+08
2768	8,249264E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250314E+06	3,719765E+08	9,938468E+08	1,357646E+09	1,357621E+09	9,937845E+08	3,718972E+08
2769	8,247156E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,243432E+06	3,719198E+08	9,937951E+08	1,357624E+09	1,357641E+09	9,938339E+08	3,719537E+08
2770	8,244836E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248081E+06	3,719073E+08	9,937835E+08	1,357597E+09	1,357606E+09	9,938126E+08	3,719580E+08
2771	8,251254E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248863E+06	3,719726E+08	9,938134E+08	1,357577E+09	1,357541E+09	9,937210E+08	3,718665E+08
2772	8,244188E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245338E+06	3,718836E+08	9,937259E+08	1,357528E+09	1,357538E+09	9,937625E+08	3,719404E+08
2773	8,247117E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250590E+06	3,719155E+08	9,937351E+08	1,357498E+09	1,357478E+09	9,936940E+08	3,718887E+08
2774	8,250329E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248292E+06	3,719210E+08	9,937060E+08	1,357461E+09	1,357442E+09	9,936490E+08	3,718514E+08
2775	8,244694E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246414E+06	3,718274E+08	9,936056E+08	1,357385E+09	1,357412E+09	9,936789E+08	3,719228E+08
2776	8,251703E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251399E+06	3,718901E+08	9,936205E+08	1,357340E+09	1,357327E+09	9,935794E+08	3,718310E+08
2777	8,249010E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247594E+06	3,718563E+08	9,935741E+08	1,357300E+09	1,357307E+09	9,935851E+08	3,718553E+08
2778	8,247064E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248035E+06	3,718164E+08	9,935505E+08	1,357283E+09	1,357295E+09	9,935926E+08	3,718879E+08
2779	8,252390E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252465E+06	3,719013E+08	9,936149E+08	1,357306E+09	1,357267E+09	9,935185E+08	3,717958E+08
2780	8,246864E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246088E+06	3,718306E+08	9,935651E+08	1,357314E+09	1,357331E+09	9,936087E+08	3,718799E+08
2781	8,248416E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250367E+06	3,718529E+08	9,936051E+08	1,357347E+09	1,357348E+09	9,936138E+08	3,718736E+08
2782	8,251084E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250650E+06	3,719113E+08	9,936543E+08	1,357392E+09	1,357381E+09	9,936056E+08	3,718286E+08
2783	8,245895E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245338E+06	3,718403E+08	9,936238E+08	1,357406E+09	1,357438E+09	9,937045E+08	3,719273E+08
2784	8,248485E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252043E+06	3,719130E+08	9,937015E+08	1,357448E+09	1,357433E+09	9,936652E+08	3,718728E+08
2785	8,249641E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246236E+06	3,719136E+08	9,937187E+08	1,357490E+09	1,357481E+09	9,936975E+08	3,718840E+08
2786	8,245077E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246212E+06	3,718557E+08	9,936874E+08	1,357494E+09	1,357516E+09	9,937547E+08	3,719509E+08
2787	8,250661E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251083E+06	3,719434E+08	9,937469E+08	1,357502E+09	1,357477E+09	9,936776E+08	3,718557E+08
2788	8,247585E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,244928E+06	3,718913E+08	9,936975E+08	1,357480E+09	1,357495E+09	9,937249E+08	3,719094E+08
2789	8,245023E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249520E+06	3,718782E+08	9,936900E+08	1,357459E+09	1,357460E+09	9,937031E+08	3,719165E+08
2790	8,251633E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250163E+06	3,719394E+08	9,937191E+08	1,357458E+09	1,357422E+09	9,936230E+08	3,718293E+08
2791	8,245088E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246029E+06	3,718444E+08	9,936222E+08	1,357397E+09	1,357414E+09	9,936710E+08	3,719096E+08
2792	8,248589E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250484E+06	3,718642E+08	9,936116E+08	1,357341E+09	1,357331E+09	9,935942E+08	3,718591E+08
2793	8,252112E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248594E+06	3,718708E+08	9,935783E+08	1,357294E+09	1,357282E+09	9,935429E+08	3,718178E+08
2794	8,246104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247175E+06	3,717840E+08	9,934783E+08	1,357211E+09	1,357247E+09	9,935658E+08	3,718842E+08
2795	8,252663E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252711E+06	3,718602E+08	9,935193E+08	1,357178E+09	1,357152E+09	9,934498E+08	3,717813E+08
2796	8,249107E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249068E+06	3,718277E+08	9,934831E+08	1,357165E+09	1,357157E+09	9,934657E+08	3,718079E+08

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°
2797	8,247379E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249127E+06	3,717844E+08	9,934601E+08	1,357161E+09	1,357167E+09	9,934900E+08	3,718481E+08
2798	8,252828E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253525E+06	3,718668E+08	9,935224E+08	1,357198E+09	1,357169E+09	9,934388E+08	3,717646E+08
2799	8,247838E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246834E+06	3,717994E+08	9,934743E+08	1,357197E+09	1,357224E+09	9,935356E+08	3,718530E+08
2800	8,249083E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250753E+06	3,718189E+08	9,935115E+08	1,357215E+09	1,357223E+09	9,935308E+08	3,718482E+08
2801	8,252076E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250968E+06	3,718799E+08	9,935733E+08	1,357274E+09	1,357257E+09	9,935217E+08	3,718022E+08
2802	8,246846E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,245811E+06	3,718074E+08	9,935363E+08	1,357290E+09	1,357324E+09	9,936200E+08	3,719000E+08
2803	8,249568E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252484E+06	3,718815E+08	9,936148E+08	1,357326E+09	1,357308E+09	9,935699E+08	3,718372E+08
2804	8,250415E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247020E+06	3,718805E+08	9,936259E+08	1,357365E+09	1,357357E+09	9,936038E+08	3,718474E+08
2805	8,245674E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247327E+06	3,718219E+08	9,935864E+08	1,357357E+09	1,357383E+09	9,936565E+08	3,719125E+08
2806	8,250989E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252354E+06	3,719127E+08	9,936504E+08	1,357373E+09	1,357353E+09	9,935827E+08	3,718186E+08
2807	8,248010E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246173E+06	3,718637E+08	9,936089E+08	1,357349E+09	1,357359E+09	9,936259E+08	3,718728E+08
2808	8,245624E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249760E+06	3,718364E+08	9,935858E+08	1,357317E+09	1,357314E+09	9,935958E+08	3,718819E+08
2809	8,252983E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250386E+06	3,718930E+08	9,936072E+08	1,357313E+09	1,357278E+09	9,935213E+08	3,717964E+08
2810	8,246660E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246642E+06	3,717964E+08	9,934931E+08	1,357233E+09	1,357263E+09	9,935659E+08	3,718749E+08
2811	8,250208E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251402E+06	3,718234E+08	9,934877E+08	1,357165E+09	1,357159E+09	9,934712E+08	3,718132E+08
2812	8,252604E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250377E+06	3,718387E+08	9,934686E+08	1,357129E+09	1,357112E+09	9,934183E+08	3,717697E+08
2813	8,246410E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248704E+06	3,717543E+08	9,933809E+08	1,357064E+09	1,357087E+09	9,934444E+08	3,718373E+08
2814	8,252747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254032E+06	3,718283E+08	9,934311E+08	1,357064E+09	1,357033E+09	9,933495E+08	3,717428E+08
2815	8,249762E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249881E+06	3,717962E+08	9,933965E+08	1,357051E+09	1,357045E+09	9,933812E+08	3,717764E+08
2816	8,248426E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249059E+06	3,717418E+08	9,933591E+08	1,357034E+09	1,357048E+09	9,934075E+08	3,718219E+08
2817	8,254125E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253820E+06	3,718267E+08	9,934209E+08	1,357067E+09	1,357046E+09	9,933606E+08	3,717406E+08
2818	8,249150E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247406E+06	3,717648E+08	9,933739E+08	1,357060E+09	1,357097E+09	9,934510E+08	3,718253E+08
2819	8,249902E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251485E+06	3,717909E+08	9,934270E+08	1,357084E+09	1,357082E+09	9,934282E+08	3,718108E+08
2820	8,252394E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251822E+06	3,718501E+08	9,934905E+08	1,357157E+09	1,357130E+09	9,934225E+08	3,717644E+08
2821	8,247299E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246655E+06	3,717757E+08	9,934477E+08	1,357171E+09	1,357203E+09	9,935269E+08	3,718639E+08
2822	8,249976E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253382E+06	3,718475E+08	9,935230E+08	1,357214E+09	1,357203E+09	9,934880E+08	3,718057E+08
2823	8,251222E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248083E+06	3,718528E+08	9,935361E+08	1,357240E+09	1,357236E+09	9,935192E+08	3,718158E+08
2824	8,246299E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247960E+06	3,717889E+08	9,934931E+08	1,357221E+09	1,357245E+09	9,935603E+08	3,718804E+08
2825	8,251890E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252908E+06	3,718784E+08	9,935605E+08	1,357242E+09	1,357215E+09	9,934873E+08	3,717884E+08
2826	8,249161E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246806E+06	3,718245E+08	9,935071E+08	1,357216E+09	1,357228E+09	9,935290E+08	3,718406E+08
2827	8,246980E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250184E+06	3,717962E+08	9,934780E+08	1,357168E+09	1,357166E+09	9,934869E+08	3,718423E+08
2828	8,253919E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251323E+06	3,718496E+08	9,934896E+08	1,357157E+09	1,357125E+09	9,934101E+08	3,717545E+08
2829	8,247436E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248068E+06	3,717581E+08	9,933725E+08	1,357065E+09	1,357099E+09	9,934478E+08	3,718296E+08
2830	8,250603E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252879E+06	3,717884E+08	9,933786E+08	1,357013E+09	1,357006E+09	9,933561E+08	3,717693E+08
2831	8,252884E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251883E+06	3,718096E+08	9,933750E+08	1,356988E+09	1,356960E+09	9,933047E+08	3,717280E+08
2832	8,247085E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248906E+06	3,717132E+08	9,932803E+08	1,356928E+09	1,356943E+09	9,933349E+08	3,718002E+08

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	8,253886E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254193E+06	3,717840E+08	9,933277E+08	1,356931E+09	1,356904E+09	9,932601E+08	3,717152E+08
2834	8,251423E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250192E+06	3,717522E+08	9,932856E+08	1,356913E+09	1,356922E+09	9,932963E+08	3,717489E+08
2835	8,249972E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249708E+06	3,717067E+08	9,932551E+08	1,356888E+09	1,356907E+09	9,933096E+08	3,717862E+08
2836	8,254618E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255137E+06	3,717978E+08	9,933303E+08	1,356934E+09	1,356910E+09	9,932627E+08	3,717038E+08
2837	8,249556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248708E+06	3,717397E+08	9,932924E+08	1,356939E+09	1,356968E+09	9,933533E+08	3,717879E+08
2838	8,249904E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252483E+06	3,717609E+08	9,933483E+08	1,356986E+09	1,356981E+09	9,933453E+08	3,717794E+08
2839	8,252965E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252599E+06	3,718222E+08	9,934121E+08	1,357052E+09	1,357026E+09	9,933458E+08	3,717364E+08
2840	8,248115E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,246751E+06	3,717375E+08	9,933530E+08	1,357047E+09	1,357083E+09	9,934421E+08	3,718353E+08
2841	8,250878E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253887E+06	3,718127E+08	9,934274E+08	1,357081E+09	1,357076E+09	9,934051E+08	3,717795E+08
2842	8,252373E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248965E+06	3,718220E+08	9,934422E+08	1,357103E+09	1,357101E+09	9,934243E+08	3,717833E+08
2843	8,247100E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248831E+06	3,717590E+08	9,934039E+08	1,357084E+09	1,357095E+09	9,934471E+08	3,718390E+08
2844	8,252429E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253757E+06	3,718419E+08	9,934655E+08	1,357113E+09	1,357077E+09	9,933781E+08	3,717479E+08
2845	8,249951E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247907E+06	3,717849E+08	9,933977E+08	1,357073E+09	1,357086E+09	9,934221E+08	3,718000E+08
2846	8,247695E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251133E+06	3,717530E+08	9,933633E+08	1,357027E+09	1,357031E+09	9,933862E+08	3,718045E+08
2847	8,254714E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252750E+06	3,718153E+08	9,933799E+08	1,357000E+09	1,356973E+09	9,933037E+08	3,717158E+08
2848	8,248103E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248835E+06	3,717200E+08	9,932641E+08	1,356906E+09	1,356935E+09	9,933307E+08	3,717891E+08
2849	8,251501E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253514E+06	3,717500E+08	9,932775E+08	1,356868E+09	1,356855E+09	9,932497E+08	3,717360E+08
2850	8,254219E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252430E+06	3,717676E+08	9,932692E+08	1,356851E+09	1,356825E+09	9,932040E+08	3,716952E+08
2851	8,248738E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249190E+06	3,716719E+08	9,931741E+08	1,356785E+09	1,356802E+09	9,932309E+08	3,717627E+08
2852	8,254894E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255028E+06	3,717424E+08	9,932189E+08	1,356791E+09	1,356768E+09	9,931618E+08	3,716795E+08
2853	8,252274E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251526E+06	3,717189E+08	9,931797E+08	1,356768E+09	1,356782E+09	9,931977E+08	3,717101E+08
2854	8,250141E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251079E+06	3,716782E+08	9,931669E+08	1,356765E+09	1,356780E+09	9,932150E+08	3,717490E+08
2855	8,254555E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256476E+06	3,717733E+08	9,932528E+08	1,356819E+09	1,356786E+09	9,931692E+08	3,716691E+08
2856	8,249985E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248879E+06	3,717051E+08	9,932063E+08	1,356824E+09	1,356846E+09	9,932603E+08	3,717562E+08
2857	8,250747E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252784E+06	3,717237E+08	9,932554E+08	1,356865E+09	1,356866E+09	9,932679E+08	3,717568E+08
2858	8,254528E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252969E+06	3,717851E+08	9,933142E+08	1,356925E+09	1,356909E+09	9,932656E+08	3,717116E+08
2859	8,249497E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,247528E+06	3,717088E+08	9,932627E+08	1,356913E+09	1,356946E+09	9,933445E+08	3,717996E+08
2860	8,251372E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254969E+06	3,717845E+08	9,933448E+08	1,356958E+09	1,356943E+09	9,933051E+08	3,717431E+08
2861	8,252905E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250192E+06	3,717941E+08	9,933591E+08	1,356986E+09	1,356974E+09	9,933242E+08	3,717440E+08
2862	8,247335E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249731E+06	3,717240E+08	9,933147E+08	1,356976E+09	1,356983E+09	9,933559E+08	3,718039E+08
2863	8,253163E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254575E+06	3,718048E+08	9,933665E+08	1,356985E+09	1,356953E+09	9,932875E+08	3,717151E+08
2864	8,250940E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248370E+06	3,717392E+08	9,932791E+08	1,356918E+09	1,356937E+09	9,933183E+08	3,717652E+08
2865	8,248855E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251877E+06	3,717113E+08	9,932417E+08	1,356857E+09	1,356872E+09	9,932834E+08	3,717724E+08
2866	8,256050E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253715E+06	3,717763E+08	9,932664E+08	1,356836E+09	1,356807E+09	9,931879E+08	3,716778E+08
2867	8,249209E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249671E+06	3,716829E+08	9,931583E+08	1,356749E+09	1,356764E+09	9,932001E+08	3,717411E+08
2868	8,252225E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254286E+06	3,717085E+08	9,931714E+08	1,356728E+09	1,356706E+09	9,931306E+08	3,716919E+08

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												
2869	8,255026E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253686E+06	3,717283E+08	9,931587E+08	1,356708E+09	1,356684E+09	9,930963E+08	3,716527E+08
2870	8,249447E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250375E+06	3,716345E+08	9,930692E+08	1,356654E+09	1,356674E+09	9,931349E+08	3,717249E+08
2871	8,255322E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256727E+06	3,717152E+08	9,931254E+08	1,356656E+09	1,356634E+09	9,930684E+08	3,716452E+08
2872	8,252744E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252355E+06	3,716869E+08	9,930879E+08	1,356635E+09	1,356643E+09	9,930983E+08	3,716758E+08
2873	8,250758E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251689E+06	3,716455E+08	9,930784E+08	1,356643E+09	1,356659E+09	9,931318E+08	3,717241E+08
2874	8,255763E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256668E+06	3,717360E+08	9,931615E+08	1,356702E+09	1,356675E+09	9,930889E+08	3,716443E+08
2875	8,251507E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248918E+06	3,716689E+08	9,931132E+08	1,356699E+09	1,356722E+09	9,931691E+08	3,717239E+08
2876	8,251680E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253434E+06	3,716885E+08	9,931622E+08	1,356743E+09	1,356745E+09	9,931774E+08	3,717250E+08
2877	8,255368E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254235E+06	3,717583E+08	9,932235E+08	1,356797E+09	1,356780E+09	9,931719E+08	3,716751E+08
2878	8,249687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,248865E+06	3,716845E+08	9,931879E+08	1,356806E+09	1,356827E+09	9,932508E+08	3,717619E+08
2879	8,251377E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256187E+06	3,717592E+08	9,932696E+08	1,356850E+09	1,356825E+09	9,932124E+08	3,717082E+08
2880	8,253424E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250429E+06	3,717541E+08	9,932620E+08	1,356862E+09	1,356850E+09	9,932293E+08	3,717101E+08
2881	8,248259E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250156E+06	3,716811E+08	9,932016E+08	1,356831E+09	1,356855E+09	9,932721E+08	3,717784E+08
2882	8,254949E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254981E+06	3,717595E+08	9,932454E+08	1,356828E+09	1,356809E+09	9,931910E+08	3,716848E+08
2883	8,252396E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249430E+06	3,717028E+08	9,931650E+08	1,356750E+09	1,356767E+09	9,931959E+08	3,717217E+08
2884	8,249680E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253056E+06	3,716766E+08	9,931389E+08	1,356705E+09	1,356707E+09	9,931572E+08	3,717276E+08
2885	8,256689E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255166E+06	3,717424E+08	9,931650E+08	1,356694E+09	1,356655E+09	9,930686E+08	3,716321E+08
2886	8,249687E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250727E+06	3,716464E+08	9,930628E+08	1,356627E+09	1,356633E+09	9,930946E+08	3,716984E+08
2887	8,252792E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255338E+06	3,716715E+08	9,930700E+08	1,356595E+09	1,356576E+09	9,930340E+08	3,716551E+08
2888	8,255752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254371E+06	3,716850E+08	9,930437E+08	1,356560E+09	1,356544E+09	9,929972E+08	3,716175E+08
2889	8,250433E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251342E+06	3,715987E+08	9,929569E+08	1,356498E+09	1,356533E+09	9,930450E+08	3,716966E+08
2890	8,256496E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257376E+06	3,716779E+08	9,930243E+08	1,356514E+09	1,356492E+09	9,929703E+08	3,716150E+08
2891	8,253961E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252776E+06	3,716512E+08	9,929926E+08	1,356500E+09	1,356498E+09	9,929885E+08	3,716383E+08
2892	8,251718E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251994E+06	3,716065E+08	9,929818E+08	1,356519E+09	1,356532E+09	9,930319E+08	3,716895E+08
2893	8,256677E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257472E+06	3,717008E+08	9,930636E+08	1,356576E+09	1,356554E+09	9,929990E+08	3,716102E+08
2894	8,252236E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249962E+06	3,716410E+08	9,930296E+08	1,356588E+09	1,356609E+09	9,930828E+08	3,716878E+08
2895	8,251788E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255120E+06	3,716699E+08	9,930891E+08	1,356632E+09	1,356630E+09	9,930919E+08	3,716910E+08
2896	8,255539E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255032E+06	3,717318E+08	9,931473E+08	1,356687E+09	1,356662E+09	9,930816E+08	3,716419E+08
2897	8,250165E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,249656E+06	3,716547E+08	9,931028E+08	1,356692E+09	1,356719E+09	9,931755E+08	3,717379E+08
2898	8,252684E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256201E+06	3,717182E+08	9,931724E+08	1,356729E+09	1,356712E+09	9,931330E+08	3,716839E+08
2899	8,255008E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250677E+06	3,717113E+08	9,931510E+08	1,356716E+09	1,356709E+09	9,931292E+08	3,716755E+08
2900	8,249342E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250959E+06	3,716405E+08	9,930853E+08	1,356676E+09	1,356704E+09	9,931624E+08	3,717399E+08
2901	8,255796E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256474E+06	3,717266E+08	9,931337E+08	1,356665E+09	1,356646E+09	9,930730E+08	3,716395E+08
2902	8,252542E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251051E+06	3,716741E+08	9,930735E+08	1,356613E+09	1,356610E+09	9,930720E+08	3,716718E+08
2903	8,249791E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254464E+06	3,716467E+08	9,930486E+08	1,356576E+09	1,356563E+09	9,930402E+08	3,716818E+08
2904	8,257138E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255719E+06	3,716984E+08	9,930548E+08	1,356553E+09	1,356514E+09	9,929590E+08	3,715924E+08



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												
2905	8,250752E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251401E+06	3,716025E+08	9,929429E+08	1,356474E+09	1,356500E+09	9,930065E+08	3,716705E+08
2906	8,254667E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255726E+06	3,716263E+08	9,929509E+08	1,356440E+09	1,356435E+09	9,929415E+08	3,716271E+08
2907	8,257261E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255209E+06	3,716459E+08	9,929306E+08	1,356399E+09	1,356385E+09	9,928867E+08	3,715801E+08
2908	8,251520E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252123E+06	3,715634E+08	9,928571E+08	1,356358E+09	1,356386E+09	9,929343E+08	3,716590E+08
2909	8,257223E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,258328E+06	3,716428E+08	9,929262E+08	1,356382E+09	1,356359E+09	9,928681E+08	3,715770E+08
2910	8,254568E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253541E+06	3,716192E+08	9,929089E+08	1,356389E+09	1,356381E+09	9,928951E+08	3,716000E+08
2911	8,252109E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253104E+06	3,715789E+08	9,928994E+08	1,356406E+09	1,356419E+09	9,929465E+08	3,716557E+08
2912	8,256996E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,258185E+06	3,716690E+08	9,929718E+08	1,356453E+09	1,356435E+09	9,929143E+08	3,715791E+08
2913	8,252817E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251078E+06	3,716175E+08	9,929448E+08	1,356463E+09	1,356495E+09	9,930094E+08	3,716627E+08
2914	8,252638E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255650E+06	3,716403E+08	9,930103E+08	1,356520E+09	1,356515E+09	9,930097E+08	3,716642E+08
2915	8,256518E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255214E+06	3,716962E+08	9,930586E+08	1,356567E+09	1,356537E+09	9,929855E+08	3,716078E+08
2916	8,251119E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,250014E+06	3,716157E+08	9,930032E+08	1,356566E+09	1,356595E+09	9,930795E+08	3,717048E+08
2917	8,253693E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256874E+06	3,716775E+08	9,930611E+08	1,356586E+09	1,356578E+09	9,930377E+08	3,716488E+08
2918	8,255815E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251975E+06	3,716799E+08	9,930536E+08	1,356578E+09	1,356566E+09	9,930243E+08	3,716338E+08
2919	8,249574E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252752E+06	3,716164E+08	9,929952E+08	1,356535E+09	1,356555E+09	9,930506E+08	3,716963E+08
2920	8,256006E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257344E+06	3,716925E+08	9,930377E+08	1,356527E+09	1,356498E+09	9,929599E+08	3,715987E+08
2921	8,253140E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251993E+06	3,716384E+08	9,929703E+08	1,356475E+09	1,356480E+09	9,929776E+08	3,716394E+08
2922	8,251431E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254373E+06	3,715993E+08	9,929373E+08	1,356436E+09	1,356432E+09	9,929469E+08	3,716516E+08
2923	8,258794E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255965E+06	3,716482E+08	9,929306E+08	1,356394E+09	1,356363E+09	9,928528E+08	3,715570E+08
2924	8,252282E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252173E+06	3,715583E+08	9,928177E+08	1,356308E+09	1,356342E+09	9,928946E+08	3,716329E+08
2925	8,255737E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256990E+06	3,715892E+08	9,928353E+08	1,356274E+09	1,356273E+09	9,928273E+08	3,715850E+08
2926	8,257580E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256756E+06	3,716163E+08	9,928401E+08	1,356262E+09	1,356231E+09	9,927687E+08	3,715332E+08
2927	8,251604E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253472E+06	3,715360E+08	9,927700E+08	1,356232E+09	1,356250E+09	9,928257E+08	3,716150E+08
2928	8,257304E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,258886E+06	3,716049E+08	9,928277E+08	1,356254E+09	1,356233E+09	9,927719E+08	3,715409E+08
2929	8,255267E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254444E+06	3,715875E+08	9,928110E+08	1,356261E+09	1,356269E+09	9,928207E+08	3,715746E+08
2930	8,253470E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253681E+06	3,715479E+08	9,928125E+08	1,356286E+09	1,356306E+09	9,928694E+08	3,716305E+08
2931	8,257944E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,258892E+06	3,716401E+08	9,928889E+08	1,356330E+09	1,356308E+09	9,928242E+08	3,715491E+08
2932	8,253786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251684E+06	3,715888E+08	9,928675E+08	1,356356E+09	1,356379E+09	9,929192E+08	3,716321E+08
2933	8,253259E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256199E+06	3,716065E+08	9,929234E+08	1,356407E+09	1,356404E+09	9,929262E+08	3,716329E+08
2934	8,257164E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255683E+06	3,716616E+08	9,929739E+08	1,356456E+09	1,356423E+09	9,928981E+08	3,715721E+08
2935	8,251542E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251184E+06	3,715852E+08	9,929094E+08	1,356438E+09	1,356470E+09	9,929875E+08	3,716687E+08
2936	8,254104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257616E+06	3,716407E+08	9,929522E+08	1,356437E+09	1,356435E+09	9,929370E+08	3,716125E+08
2937	8,256376E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253351E+06	3,716513E+08	9,929521E+08	1,356427E+09	1,356423E+09	9,929279E+08	3,716015E+08
2938	8,250757E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253271E+06	3,715805E+08	9,929023E+08	1,356401E+09	1,356411E+09	9,929449E+08	3,716609E+08
2939	8,257171E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257432E+06	3,716467E+08	9,929280E+08	1,356381E+09	1,356348E+09	9,928462E+08	3,715603E+08
2940	8,254505E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252366E+06	3,715914E+08	9,928532E+08	1,356326E+09	1,356335E+09	9,928675E+08	3,716013E+08

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°
2941	8,252786E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255123E+06	3,715534E+08	9,928115E+08	1,356273E+09	1,356282E+09	9,928411E+08	3,716123E+08
2942	8,259582E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257560E+06	3,716137E+08	9,928241E+08	1,356240E+09	1,356206E+09	9,927387E+08	3,715118E+08
2943	8,252537E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254242E+06	3,715341E+08	9,927236E+08	1,356162E+09	1,356186E+09	9,927786E+08	3,715877E+08
2944	8,255887E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257975E+06	3,715540E+08	9,927358E+08	1,356135E+09	1,356126E+09	9,927171E+08	3,715448E+08
2945	8,257980E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257825E+06	3,715828E+08	9,927406E+08	1,356129E+09	1,356109E+09	9,926818E+08	3,715037E+08
2946	8,253088E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253399E+06	3,714957E+08	9,926747E+08	1,356109E+09	1,356132E+09	9,927417E+08	3,715870E+08
2947	8,258479E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,258998E+06	3,715622E+08	9,927234E+08	1,356119E+09	1,356104E+09	9,926817E+08	3,715121E+08
2948	8,256622E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255060E+06	3,715546E+08	9,927158E+08	1,356130E+09	1,356141E+09	9,927280E+08	3,715433E+08
2949	8,254246E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254683E+06	3,715196E+08	9,927267E+08	1,356161E+09	1,356178E+09	9,927783E+08	3,715968E+08
2950	8,258233E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,259947E+06	3,716147E+08	9,928207E+08	1,356227E+09	1,356188E+09	9,927291E+08	3,715114E+08
2951	8,254017E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252755E+06	3,715623E+08	9,927893E+08	1,356248E+09	1,356266E+09	9,928284E+08	3,715954E+08
2952	8,253441E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256424E+06	3,715657E+08	9,928226E+08	1,356281E+09	1,356287E+09	9,928411E+08	3,716018E+08
2953	8,257947E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256550E+06	3,716272E+08	9,928679E+08	1,356317E+09	1,356305E+09	9,928224E+08	3,715476E+08
2954	8,252923E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,251836E+06	3,715521E+08	9,928137E+08	1,356301E+09	1,356336E+09	9,928962E+08	3,716385E+08
2955	8,255072E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,258201E+06	3,716054E+08	9,928558E+08	1,356294E+09	1,356284E+09	9,928285E+08	3,715779E+08
2956	8,257556E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254116E+06	3,716166E+08	9,928581E+08	1,356295E+09	1,356279E+09	9,928156E+08	3,715633E+08
2957	8,251721E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253975E+06	3,715408E+08	9,927988E+08	1,356265E+09	1,356275E+09	9,928407E+08	3,716210E+08
2958	8,257922E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,258304E+06	3,716080E+08	9,928288E+08	1,356244E+09	1,356206E+09	9,927393E+08	3,715178E+08
2959	8,254966E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254058E+06	3,715570E+08	9,927448E+08	1,356177E+09	1,356188E+09	9,927592E+08	3,715576E+08
2960	8,253149E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256243E+06	3,715146E+08	9,926930E+08	1,356109E+09	1,356124E+09	9,927306E+08	3,715707E+08
2961	8,259877E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,259284E+06	3,715822E+08	9,927151E+08	1,356082E+09	1,356055E+09	9,926359E+08	3,714771E+08
2962	8,253681E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254836E+06	3,714972E+08	9,926269E+08	1,356024E+09	1,356040E+09	9,926700E+08	3,715513E+08
2963	8,257008E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257965E+06	3,715064E+08	9,926244E+08	1,355990E+09	1,355980E+09	9,926077E+08	3,715100E+08
2964	8,259445E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,258050E+06	3,715384E+08	9,926310E+08	1,355989E+09	1,355971E+09	9,925807E+08	3,714712E+08
2965	8,254551E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253973E+06	3,714570E+08	9,925690E+08	1,355969E+09	1,356001E+09	9,926497E+08	3,715529E+08
2966	8,259104E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,260313E+06	3,715355E+08	9,926419E+08	1,355994E+09	1,355972E+09	9,925855E+08	3,714750E+08
2967	8,256892E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256709E+06	3,715358E+08	9,926463E+08	1,356022E+09	1,356021E+09	9,926351E+08	3,715057E+08
2968	8,254295E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255411E+06	3,714894E+08	9,926455E+08	1,356053E+09	1,356067E+09	9,926930E+08	3,715646E+08
2969	8,258536E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,260675E+06	3,715826E+08	9,927314E+08	1,356117E+09	1,356093E+09	9,926624E+08	3,714894E+08
2970	8,255457E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,252713E+06	3,715249E+08	9,927009E+08	1,356134E+09	1,356158E+09	9,927541E+08	3,715719E+08
2971	8,254552E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256469E+06	3,715219E+08	9,927130E+08	1,356139E+09	1,356153E+09	9,927514E+08	3,715752E+08
2972	8,259352E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257263E+06	3,715939E+08	9,927680E+08	1,356173E+09	1,356159E+09	9,927205E+08	3,715147E+08
2973	8,253719E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253016E+06	3,715229E+08	9,927225E+08	1,356163E+09	1,356189E+09	9,927876E+08	3,715971E+08
2974	8,255334E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,259338E+06	3,715769E+08	9,927770E+08	1,356173E+09	1,356142E+09	9,927128E+08	3,715320E+08
2975	8,257742E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255549E+06	3,715860E+08	9,927682E+08	1,356171E+09	1,356146E+09	9,927062E+08	3,715180E+08
2976	8,252044E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254661E+06	3,714978E+08	9,926855E+08	1,356120E+09	1,356138E+09	9,927397E+08	3,715824E+08

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	8,258659E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,259597E+06	3,715696E+08	9,927101E+08	1,356091E+09	1,356072E+09	9,926498E+08	3,714884E+08
2978	8,256428E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255077E+06	3,715203E+08	9,926387E+08	1,356025E+09	1,356037E+09	9,926563E+08	3,715242E+08
2979	8,254335E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256680E+06	3,714708E+08	9,925793E+08	1,355952E+09	1,355963E+09	9,926168E+08	3,715361E+08
2980	8,261290E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,259819E+06	3,715397E+08	9,926064E+08	1,355936E+09	1,355902E+09	9,925216E+08	3,714407E+08
2981	8,255012E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255170E+06	3,714528E+08	9,925150E+08	1,355879E+09	1,355897E+09	9,925635E+08	3,715119E+08
2982	8,257957E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,258638E+06	3,714673E+08	9,925255E+08	1,355854E+09	1,355838E+09	9,925008E+08	3,714695E+08
2983	8,260009E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,259623E+06	3,715080E+08	9,925325E+08	1,355853E+09	1,355835E+09	9,924780E+08	3,714300E+08
2984	8,254910E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255136E+06	3,714272E+08	9,924727E+08	1,355832E+09	1,355866E+09	9,925534E+08	3,715154E+08
2985	8,259119E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,261960E+06	3,715123E+08	9,925585E+08	1,355875E+09	1,355857E+09	9,925046E+08	3,714480E+08
2986	8,257906E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257088E+06	3,715049E+08	9,925699E+08	1,355919E+09	1,355912E+09	9,925519E+08	3,714770E+08
2987	8,255103E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255210E+06	3,714459E+08	9,925460E+08	1,355932E+09	1,355951E+09	9,926080E+08	3,715381E+08
2988	8,259873E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,260761E+06	3,715413E+08	9,926293E+08	1,355988E+09	1,355969E+09	9,925753E+08	3,714622E+08
2989	8,256690E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253470E+06	3,714912E+08	9,926015E+08	1,355998E+09	1,356027E+09	9,926620E+08	3,715379E+08
2990	8,255020E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257985E+06	3,715002E+08	9,926359E+08	1,356012E+09	1,356012E+09	9,926459E+08	3,715356E+08
2991	8,259571E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,259108E+06	3,715752E+08	9,926965E+08	1,356059E+09	1,356028E+09	9,926150E+08	3,714729E+08
2992	8,253803E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,253992E+06	3,714920E+08	9,926365E+08	1,356047E+09	1,356067E+09	9,926902E+08	3,715581E+08
2993	8,255682E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,260169E+06	3,715412E+08	9,926787E+08	1,356053E+09	1,356034E+09	9,926333E+08	3,715045E+08
2994	8,259192E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,255773E+06	3,715428E+08	9,926649E+08	1,356042E+09	1,356024E+09	9,926187E+08	3,714883E+08
2995	8,253309E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,254822E+06	3,714477E+08	9,925571E+08	1,355957E+09	1,355986E+09	9,926375E+08	3,715516E+08
2996	8,260319E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,260270E+06	3,715269E+08	9,925906E+08	1,355923E+09	1,355904E+09	9,925355E+08	3,714536E+08
2997	8,257686E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,256193E+06	3,714815E+08	9,925273E+08	1,355865E+09	1,355869E+09	9,925344E+08	3,714816E+08
2998	8,255223E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,257619E+06	3,714334E+08	9,924767E+08	1,355802E+09	1,355798E+09	9,924880E+08	3,714881E+08
2999	8,261797E+06	0,000000E+00	0,000000E+00	0,000000E+00	0,000000E+00	8,261128E+06	3,715022E+08	9,924996E+08	1,355792E+09	1,355754E+09	9,924040E+08	3,713939E+08