

1 Longitude $\odot$ Years	2 0° - 30°	3 30° - 60°	4 60° - 90°	5 90° - 120°	6 120° - 150°	7 150° - 180°	8 180° - 210°	9 210° - 240°	10 240° - 270°	11 270° - 300°	12 300° - 330°	13 330° - 360°
-3000	1,910157E+08	1,661398E+07	0,000000E+00	0,000000E+00	1,661895E+07	1,910342E+08	5,478808E+08	9,915061E+08	1,331698E+09	1,331672E+09	9,914402E+08	5,478227E+08
-2999	1,910038E+08	1,661415E+07	0,000000E+00	0,000000E+00	1,661316E+07	1,910047E+08	5,478313E+08	9,914374E+08	1,331640E+09	1,331652E+09	9,914695E+08	5,478680E+08
-2998	1,910396E+08	1,662482E+07	0,000000E+00	0,000000E+00	1,662375E+07	1,910266E+08	5,478405E+08	9,914152E+08	1,331588E+09	1,331598E+09	9,914322E+08	5,478392E+08
-2997	1,910154E+08	1,662028E+07	0,000000E+00	0,000000E+00	1,662539E+07	1,910423E+08	5,478632E+08	9,914303E+08	1,331565E+09	1,331520E+09	9,913453E+08	5,478127E+08
-2996	1,910307E+08	1,662822E+07	0,000000E+00	0,000000E+00	1,662410E+07	1,910111E+08	5,477966E+08	9,913417E+08	1,331513E+09	1,331531E+09	9,913942E+08	5,478559E+08
-2995	1,910552E+08	1,663460E+07	0,000000E+00	0,000000E+00	1,663569E+07	1,910498E+08	5,478338E+08	9,913553E+08	1,331482E+09	1,331474E+09	9,913253E+08	5,477960E+08
-2994	1,910218E+08	1,662960E+07	0,000000E+00	0,000000E+00	1,663290E+07	1,910435E+08	5,478229E+08	9,913316E+08	1,331447E+09	1,331428E+09	9,913019E+08	5,478125E+08
-2993	1,910508E+08	1,663810E+07	0,000000E+00	0,000000E+00	1,663335E+07	1,910258E+08	5,477816E+08	9,912731E+08	1,331415E+09	1,331452E+09	9,913535E+08	5,478432E+08
-2992	1,910501E+08	1,663591E+07	0,000000E+00	0,000000E+00	1,664032E+07	1,910649E+08	5,478430E+08	9,913370E+08	1,331433E+09	1,331416E+09	9,912815E+08	5,477847E+08
-2991	1,910270E+08	1,663159E+07	0,000000E+00	0,000000E+00	1,663057E+07	1,910313E+08	5,478084E+08	9,913183E+08	1,331443E+09	1,331442E+09	9,913306E+08	5,478334E+08
-2990	1,910582E+08	1,663782E+07	0,000000E+00	0,000000E+00	1,663279E+07	1,910322E+08	5,478047E+08	9,913204E+08	1,331466E+09	1,331482E+09	9,913589E+08	5,478293E+08
-2989	1,910329E+08	1,663017E+07	0,000000E+00	0,000000E+00	1,663348E+07	1,910531E+08	5,478524E+08	9,913924E+08	1,331523E+09	1,331490E+09	9,913207E+08	5,477981E+08
-2988	1,910262E+08	1,662733E+07	0,000000E+00	0,000000E+00	1,662281E+07	1,910127E+08	5,478030E+08	9,913587E+08	1,331546E+09	1,331575E+09	9,914253E+08	5,478594E+08
-2987	1,910462E+08	1,662984E+07	0,000000E+00	0,000000E+00	1,662897E+07	1,910395E+08	5,478498E+08	9,914181E+08	1,331581E+09	1,331586E+09	9,914163E+08	5,478262E+08
-2986	1,910072E+08	1,661814E+07	0,000000E+00	0,000000E+00	1,662219E+07	1,910348E+08	5,478662E+08	9,914609E+08	1,331625E+09	1,331593E+09	9,914017E+08	5,478320E+08
-2985	1,910234E+08	1,662090E+07	0,000000E+00	0,000000E+00	1,661583E+07	1,910008E+08	5,478151E+08	9,914158E+08	1,331631E+09	1,331659E+09	9,914837E+08	5,478785E+08
-2984	1,910346E+08	1,662168E+07	0,000000E+00	0,000000E+00	1,662377E+07	1,910364E+08	5,478675E+08	9,914704E+08	1,331653E+09	1,331643E+09	9,914296E+08	5,478197E+08
-2983	1,910038E+08	1,661485E+07	0,000000E+00	0,000000E+00	1,661496E+07	1,910126E+08	5,478410E+08	9,914476E+08	1,331640E+09	1,331632E+09	9,914427E+08	5,478517E+08
-2982	1,910345E+08	1,662460E+07	0,000000E+00	0,000000E+00	1,661993E+07	1,910089E+08	5,478127E+08	9,913932E+08	1,331594E+09	1,331622E+09	9,914583E+08	5,478631E+08
-2981	1,910263E+08	1,662171E+07	0,000000E+00	0,000000E+00	1,662665E+07	1,910461E+08	5,478668E+08	9,914368E+08	1,331584E+09	1,331554E+09	9,913636E+08	5,478059E+08
-2980	1,910149E+08	1,662191E+07	0,000000E+00	0,000000E+00	1,662093E+07	1,910147E+08	5,478149E+08	9,913707E+08	1,331534E+09	1,331543E+09	9,913985E+08	5,478518E+08
-2979	1,910514E+08	1,663313E+07	0,000000E+00	0,000000E+00	1,663154E+07	1,910365E+08	5,478282E+08	9,913617E+08	1,331495E+09	1,331493E+09	9,913568E+08	5,478192E+08
-2978	1,910252E+08	1,662814E+07	0,000000E+00	0,000000E+00	1,663359E+07	1,910528E+08	5,478459E+08	9,913683E+08	1,331476E+09	1,331430E+09	9,912758E+08	5,477888E+08
-2977	1,910382E+08	1,663576E+07	0,000000E+00	0,000000E+00	1,663202E+07	1,910210E+08	5,477741E+08	9,912652E+08	1,331407E+09	1,331436E+09	9,913347E+08	5,478403E+08
-2976	1,910639E+08	1,664179E+07	0,000000E+00	0,000000E+00	1,664365E+07	1,910623E+08	5,478174E+08	9,912824E+08	1,331378E+09	1,331382E+09	9,912682E+08	5,477829E+08
-2975	1,910312E+08	1,663651E+07	0,000000E+00	0,000000E+00	1,663987E+07	1,910536E+08	5,478097E+08	9,912717E+08	1,331352E+09	1,331335E+09	9,912446E+08	5,478000E+08
-2974	1,910600E+08	1,664454E+07	0,000000E+00	0,000000E+00	1,663987E+07	1,910349E+08	5,477667E+08	9,912119E+08	1,331316E+09	1,331347E+09	9,912848E+08	5,478282E+08
-2973	1,910611E+08	1,664304E+07	0,000000E+00	0,000000E+00	1,664621E+07	1,910720E+08	5,478296E+08	9,912856E+08	1,331352E+09	1,331324E+09	9,912161E+08	5,477678E+08
-2972	1,910362E+08	1,663826E+07	0,000000E+00	0,000000E+00	1,663646E+07	1,910368E+08	5,477905E+08	9,912638E+08	1,331368E+09	1,331370E+09	9,912809E+08	5,478178E+08
-2971	1,910648E+08	1,664410E+07	0,000000E+00	0,000000E+00	1,663910E+07	1,910412E+08	5,477956E+08	9,912779E+08	1,331396E+09	1,331412E+09	9,913102E+08	5,478142E+08
-2970	1,910369E+08	1,663505E+07	0,000000E+00	0,000000E+00	1,663978E+07	1,910639E+08	5,478444E+08	9,913472E+08	1,331454E+09	1,331425E+09	9,912756E+08	5,477829E+08
-2969	1,910291E+08	1,663141E+07	0,000000E+00	0,000000E+00	1,662789E+07	1,910199E+08	5,477911E+08	9,913073E+08	1,331465E+09	1,331499E+09	9,913812E+08	5,478518E+08
-2968	1,910541E+08	1,663467E+07	0,000000E+00	0,000000E+00	1,663369E+07	1,910450E+08	5,478361E+08	9,913690E+08	1,331510E+09	1,331517E+09	9,913707E+08	5,478182E+08
-2967	1,910183E+08	1,662412E+07	0,000000E+00	0,000000E+00	1,662650E+07	1,910368E+08	5,478471E+08	9,914102E+08	1,331555E+09	1,331523E+09	9,913538E+08	5,478206E+08
-2966	1,910337E+08	1,662762E+07	0,000000E+00	0,000000E+00	1,662157E+07	1,910054E+08	5,477912E+08	9,913470E+08	1,331536E+09	1,331568E+09	9,914232E+08	5,478640E+08
-2965	1,910459E+08	1,662934E+07	0,000000E+00	0,000000E+00	1,663048E+07	1,910451E+08	5,478495E+08	9,914032E+08	1,331554E+09	1,331545E+09	9,913656E+08	5,478027E+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°
-2964	1,910124E+08	1,662196E+07	0,000000E+00	0,000000E+00	1,662265E+07	1,910244E+08	5,478269E+08	9,913808E+08	1,331536E+09	1,331533E+09	9,913809E+08	5,478351E+08
-2963	1,910419E+08	1,663155E+07	0,000000E+00	0,000000E+00	1,662802E+07	1,910234E+08	5,478100E+08	9,913453E+08	1,331498E+09	1,331515E+09	9,913848E+08	5,478427E+08
-2962	1,910334E+08	1,662818E+07	0,000000E+00	0,000000E+00	1,663451E+07	1,910592E+08	5,478590E+08	9,913866E+08	1,331499E+09	1,331458E+09	9,912906E+08	5,477814E+08
-2961	1,910219E+08	1,662886E+07	0,000000E+00	0,000000E+00	1,662824E+07	1,910231E+08	5,477961E+08	9,913058E+08	1,331440E+09	1,331448E+09	9,913331E+08	5,478348E+08
-2960	1,910621E+08	1,664086E+07	0,000000E+00	0,000000E+00	1,663911E+07	1,910446E+08	5,478041E+08	9,912876E+08	1,331400E+09	1,331407E+09	9,912976E+08	5,478042E+08
-2959	1,910372E+08	1,663650E+07	0,000000E+00	0,000000E+00	1,664127E+07	1,910607E+08	5,478208E+08	9,912907E+08	1,331371E+09	1,331337E+09	9,912200E+08	5,477759E+08
-2958	1,910487E+08	1,664353E+07	0,000000E+00	0,000000E+00	1,664017E+07	1,910322E+08	5,477519E+08	9,911795E+08	1,331279E+09	1,331318E+09	9,912660E+08	5,478278E+08
-2957	1,910761E+08	1,664965E+07	0,000000E+00	0,000000E+00	1,665098E+07	1,910731E+08	5,478030E+08	9,912130E+08	1,331262E+09	1,331262E+09	9,911940E+08	5,477671E+08
-2956	1,910423E+08	1,664388E+07	0,000000E+00	0,000000E+00	1,664684E+07	1,910626E+08	5,477956E+08	9,912120E+08	1,331254E+09	1,331233E+09	9,911781E+08	5,477834E+08
-2955	1,910697E+08	1,665167E+07	0,000000E+00	0,000000E+00	1,664641E+07	1,910445E+08	5,477601E+08	9,911713E+08	1,331242E+09	1,331259E+09	9,912168E+08	5,478063E+08
-2954	1,910678E+08	1,664925E+07	0,000000E+00	0,000000E+00	1,665277E+07	1,910813E+08	5,478188E+08	9,912418E+08	1,331289E+09	1,331258E+09	9,911621E+08	5,477456E+08
-2953	1,910400E+08	1,664363E+07	0,000000E+00	0,000000E+00	1,664240E+07	1,910451E+08	5,477767E+08	9,912126E+08	1,331296E+09	1,331306E+09	9,912407E+08	5,478064E+08
-2952	1,910698E+08	1,664888E+07	0,000000E+00	0,000000E+00	1,664474E+07	1,910499E+08	5,477843E+08	9,912295E+08	1,331328E+09	1,331352E+09	9,912731E+08	5,478067E+08
-2951	1,910446E+08	1,664002E+07	0,000000E+00	0,000000E+00	1,664439E+07	1,910689E+08	5,478327E+08	9,913044E+08	1,331387E+09	1,331361E+09	9,912382E+08	5,477758E+08
-2950	1,910373E+08	1,663641E+07	0,000000E+00	0,000000E+00	1,663264E+07	1,910246E+08	5,477744E+08	9,912525E+08	1,331381E+09	1,331415E+09	9,913278E+08	5,478416E+08
-2949	1,910653E+08	1,664111E+07	0,000000E+00	0,000000E+00	1,663843E+07	1,910481E+08	5,478169E+08	9,913117E+08	1,331426E+09	1,331432E+09	9,913136E+08	5,478040E+08
-2948	1,910282E+08	1,663088E+07	0,000000E+00	0,000000E+00	1,663249E+07	1,910419E+08	5,478248E+08	9,913446E+08	1,331466E+09	1,331441E+09	9,913012E+08	5,478048E+08
-2947	1,910415E+08	1,663446E+07	0,000000E+00	0,000000E+00	1,662888E+07	1,910170E+08	5,477810E+08	9,912911E+08	1,331444E+09	1,331473E+09	9,913580E+08	5,478429E+08
-2946	1,910511E+08	1,663526E+07	0,000000E+00	0,000000E+00	1,663831E+07	1,910595E+08	5,478422E+08	9,913477E+08	1,331461E+09	1,331450E+09	9,912999E+08	5,477808E+08
-2945	1,910171E+08	1,662770E+07	0,000000E+00	0,000000E+00	1,662984E+07	1,910362E+08	5,478173E+08	9,913240E+08	1,331437E+09	1,331432E+09	9,913168E+08	5,478193E+08
-2944	1,910502E+08	1,663786E+07	0,000000E+00	0,000000E+00	1,663493E+07	1,910329E+08	5,477964E+08	9,912900E+08	1,331413E+09	1,331426E+09	9,913223E+08	5,478273E+08
-2943	1,910454E+08	1,663592E+07	0,000000E+00	0,000000E+00	1,664107E+07	1,910650E+08	5,478390E+08	9,913255E+08	1,331412E+09	1,331374E+09	9,912331E+08	5,477665E+08
-2942	1,910337E+08	1,663714E+07	0,000000E+00	0,000000E+00	1,663604E+07	1,910310E+08	5,477697E+08	9,912241E+08	1,331326E+09	1,331342E+09	9,912661E+08	5,478197E+08
-2941	1,910758E+08	1,664980E+07	0,000000E+00	0,000000E+00	1,664709E+07	1,910545E+08	5,477817E+08	9,912066E+08	1,331282E+09	1,331295E+09	9,912303E+08	5,477892E+08
-2940	1,910489E+08	1,664486E+07	0,000000E+00	0,000000E+00	1,664984E+07	1,910726E+08	5,478027E+08	9,912140E+08	1,331252E+09	1,331225E+09	9,911537E+08	5,477609E+08
-2939	1,910588E+08	1,665118E+07	0,000000E+00	0,000000E+00	1,664829E+07	1,910463E+08	5,477471E+08	9,911263E+08	1,331175E+09	1,331200E+09	9,911862E+08	5,478058E+08
-2938	1,910844E+08	1,665640E+07	0,000000E+00	0,000000E+00	1,665830E+07	1,910845E+08	5,477945E+08	9,911643E+08	1,331178E+09	1,331166E+09	9,911212E+08	5,477421E+08
-2937	1,910490E+08	1,665041E+07	0,000000E+00	0,000000E+00	1,665314E+07	1,910693E+08	5,477792E+08	9,911563E+08	1,331172E+09	1,331150E+09	9,911194E+08	5,477652E+08
-2936	1,910768E+08	1,665798E+07	0,000000E+00	0,000000E+00	1,665257E+07	1,910509E+08	5,477404E+08	9,911149E+08	1,331172E+09	1,331196E+09	9,911712E+08	5,477922E+08
-2935	1,910763E+08	1,665583E+07	0,000000E+00	0,000000E+00	1,665866E+07	1,910873E+08	5,477997E+08	9,911839E+08	1,331213E+09	1,331196E+09	9,911268E+08	5,477373E+08
-2934	1,910474E+08	1,664923E+07	0,000000E+00	0,000000E+00	1,664829E+07	1,910523E+08	5,477584E+08	9,911470E+08	1,331201E+09	1,331221E+09	9,911940E+08	5,478001E+08
-2933	1,910804E+08	1,665486E+07	0,000000E+00	0,000000E+00	1,664969E+07	1,910553E+08	5,477701E+08	9,911754E+08	1,331239E+09	1,331262E+09	9,912217E+08	5,477986E+08
-2932	1,910551E+08	1,664602E+07	0,000000E+00	0,000000E+00	1,664943E+07	1,910728E+08	5,478155E+08	9,912515E+08	1,331306E+09	1,331279E+09	9,911872E+08	5,477644E+08
-2931	1,910466E+08	1,664255E+07	0,000000E+00	0,000000E+00	1,663831E+07	1,910327E+08	5,477666E+08	9,912102E+08	1,331306E+09	1,331328E+09	9,912642E+08	5,478207E+08
-2930	1,910712E+08	1,664684E+07	0,000000E+00	0,000000E+00	1,664499E+07	1,910582E+08	5,478060E+08	9,912629E+08	1,331352E+09	1,331356E+09	9,912560E+08	5,477799E+08
-2929	1,910312E+08	1,663615E+07	0,000000E+00	0,000000E+00	1,663930E+07	1,910537E+08	5,478148E+08	9,912906E+08	1,331380E+09	1,331359E+09	9,912490E+08	5,477881E+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												
-2928	1,910453E+08	1,663948E+07	0,000000E+00	0,000000E+00	1,663591E+07	1,910297E+08	5,477735E+08	9,912437E+08	1,331368E+09	1,331395E+09	9,913047E+08	5,478279E+08
-2927	1,910586E+08	1,664112E+07	0,000000E+00	0,000000E+00	1,664448E+07	1,910683E+08	5,478328E+08	9,913024E+08	1,331384E+09	1,331369E+09	9,912472E+08	5,477683E+08
-2926	1,910265E+08	1,663423E+07	0,000000E+00	0,000000E+00	1,663624E+07	1,910428E+08	5,477988E+08	9,912620E+08	1,331343E+09	1,331334E+09	9,912525E+08	5,478060E+08
-2925	1,910638E+08	1,664606E+07	0,000000E+00	0,000000E+00	1,664127E+07	1,910373E+08	5,477729E+08	9,912203E+08	1,331313E+09	1,331326E+09	9,912586E+08	5,478121E+08
-2924	1,910584E+08	1,664475E+07	0,000000E+00	0,000000E+00	1,664878E+07	1,910713E+08	5,478106E+08	9,912435E+08	1,331301E+09	1,331274E+09	9,911737E+08	5,477522E+08
-2923	1,910454E+08	1,664591E+07	0,000000E+00	0,000000E+00	1,664507E+07	1,910451E+08	5,477550E+08	9,911493E+08	1,331207E+09	1,331224E+09	9,911905E+08	5,477993E+08
-2922	1,910846E+08	1,665731E+07	0,000000E+00	0,000000E+00	1,665592E+07	1,910690E+08	5,477679E+08	9,911341E+08	1,331165E+09	1,331179E+09	9,911537E+08	5,477660E+08
-2921	1,910568E+08	1,665198E+07	0,000000E+00	0,000000E+00	1,665776E+07	1,910843E+08	5,477887E+08	9,911474E+08	1,331140E+09	1,331109E+09	9,910806E+08	5,477429E+08
-2920	1,910683E+08	1,665816E+07	0,000000E+00	0,000000E+00	1,665535E+07	1,910551E+08	5,477310E+08	9,910703E+08	1,331091E+09	1,331107E+09	9,911171E+08	5,477858E+08
-2919	1,910949E+08	1,666402E+07	0,000000E+00	0,000000E+00	1,666449E+07	1,910899E+08	5,477758E+08	9,911095E+08	1,331101E+09	1,331088E+09	9,910671E+08	5,477264E+08
-2918	1,910583E+08	1,665767E+07	0,000000E+00	0,000000E+00	1,665987E+07	1,910764E+08	5,477578E+08	9,910899E+08	1,331081E+09	1,331066E+09	9,910667E+08	5,477522E+08
-2917	1,910866E+08	1,666498E+07	0,000000E+00	0,000000E+00	1,665885E+07	1,910592E+08	5,477248E+08	9,910539E+08	1,331081E+09	1,331112E+09	9,911242E+08	5,477818E+08
-2916	1,910844E+08	1,666215E+07	0,000000E+00	0,000000E+00	1,666517E+07	1,910961E+08	5,477864E+08	9,911275E+08	1,331126E+09	1,331115E+09	9,910834E+08	5,477297E+08
-2915	1,910555E+08	1,665478E+07	0,000000E+00	0,000000E+00	1,665445E+07	1,910635E+08	5,477556E+08	9,911071E+08	1,331122E+09	1,331130E+09	9,911324E+08	5,477832E+08
-2914	1,910864E+08	1,665979E+07	0,000000E+00	0,000000E+00	1,665530E+07	1,910631E+08	5,477603E+08	9,911336E+08	1,331172E+09	1,331185E+09	9,911631E+08	5,477777E+08
-2913	1,910601E+08	1,665109E+07	0,000000E+00	0,000000E+00	1,665469E+07	1,910779E+08	5,477992E+08	9,912008E+08	1,331232E+09	1,331204E+09	9,911361E+08	5,477486E+08
-2912	1,910517E+08	1,664768E+07	0,000000E+00	0,000000E+00	1,664412E+07	1,910398E+08	5,477498E+08	9,911604E+08	1,331241E+09	1,331262E+09	9,912162E+08	5,478046E+08
-2911	1,910773E+08	1,665259E+07	0,000000E+00	0,000000E+00	1,665084E+07	1,910662E+08	5,477924E+08	9,912105E+08	1,331276E+09	1,331285E+09	9,912137E+08	5,477694E+08
-2910	1,910381E+08	1,664170E+07	0,000000E+00	0,000000E+00	1,664544E+07	1,910626E+08	5,478009E+08	9,912293E+08	1,331283E+09	1,331264E+09	9,911933E+08	5,477781E+08
-2909	1,910561E+08	1,664612E+07	0,000000E+00	0,000000E+00	1,664160E+07	1,910365E+08	5,477601E+08	9,911884E+08	1,331274E+09	1,331297E+09	9,912457E+08	5,478164E+08
-2908	1,910707E+08	1,664872E+07	0,000000E+00	0,000000E+00	1,665072E+07	1,910731E+08	5,478118E+08	9,912400E+08	1,331294E+09	1,331276E+09	9,911892E+08	5,477563E+08
-2907	1,910392E+08	1,664254E+07	0,000000E+00	0,000000E+00	1,664375E+07	1,910523E+08	5,477831E+08	9,911998E+08	1,331247E+09	1,331231E+09	9,911789E+08	5,477845E+08
-2906	1,910740E+08	1,665420E+07	0,000000E+00	0,000000E+00	1,664971E+07	1,910485E+08	5,477528E+08	9,911485E+08	1,331210E+09	1,331227E+09	9,911897E+08	5,477889E+08
-2905	1,910663E+08	1,665241E+07	0,000000E+00	0,000000E+00	1,665739E+07	1,910837E+08	5,477917E+08	9,911659E+08	1,331183E+09	1,331162E+09	9,911062E+08	5,477350E+08
-2904	1,910534E+08	1,665308E+07	0,000000E+00	0,000000E+00	1,665373E+07	1,910589E+08	5,477412E+08	9,910850E+08	1,331105E+09	1,331116E+09	9,911187E+08	5,477806E+08
-2903	1,910943E+08	1,666469E+07	0,000000E+00	0,000000E+00	1,666332E+07	1,910795E+08	5,477548E+08	9,910753E+08	1,331068E+09	1,331076E+09	9,910859E+08	5,477488E+08
-2902	1,910667E+08	1,665941E+07	0,000000E+00	0,000000E+00	1,666484E+07	1,910920E+08	5,477687E+08	9,910787E+08	1,331037E+09	1,331002E+09	9,910092E+08	5,477255E+08
-2901	1,910806E+08	1,666632E+07	0,000000E+00	0,000000E+00	1,666186E+07	1,910609E+08	5,477098E+08	9,910042E+08	1,330996E+09	1,331013E+09	9,910564E+08	5,477688E+08
-2900	1,911050E+08	1,667214E+07	0,000000E+00	0,000000E+00	1,667172E+07	1,910967E+08	5,477520E+08	9,910391E+08	1,331007E+09	1,331004E+09	9,910176E+08	5,477154E+08
-2899	1,910678E+08	1,666502E+07	0,000000E+00	0,000000E+00	1,666768E+07	1,910897E+08	5,477483E+08	9,910310E+08	1,330986E+09	1,330970E+09	9,910060E+08	5,477363E+08
-2898	1,910929E+08	1,667066E+07	0,000000E+00	0,000000E+00	1,666584E+07	1,910711E+08	5,477163E+08	9,910019E+08	1,330994E+09	1,331024E+09	9,910661E+08	5,477646E+08
-2897	1,910901E+08	1,666723E+07	0,000000E+00	0,000000E+00	1,667091E+07	1,911038E+08	5,477752E+08	9,910788E+08	1,331043E+09	1,331028E+09	9,910294E+08	5,477178E+08
-2896	1,910623E+08	1,665970E+07	0,000000E+00	0,000000E+00	1,665960E+07	1,910693E+08	5,477419E+08	9,910670E+08	1,331065E+09	1,331061E+09	9,910790E+08	5,477678E+08
-2895	1,910940E+08	1,666538E+07	0,000000E+00	0,000000E+00	1,666000E+07	1,910672E+08	5,477441E+08	9,910879E+08	1,331111E+09	1,331124E+09	9,911200E+08	5,477649E+08
-2894	1,910669E+08	1,665666E+07	0,000000E+00	0,000000E+00	1,666012E+07	1,910840E+08	5,477805E+08	9,911415E+08	1,331152E+09	1,331129E+09	9,910897E+08	5,477378E+08
-2893	1,910601E+08	1,665370E+07	0,000000E+00	0,000000E+00	1,664964E+07	1,910479E+08	5,477381E+08	9,911077E+08	1,331156E+09	1,331182E+09	9,911695E+08	5,477929E+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°
-2892	1,910843E+08	1,665870E+07	0,000000E+00	0,000000E+00	1,665699E+07	1,910746E+08	5,477810E+08	9,911597E+08	1,331193E+09	1,331202E+09	9,911653E+08	5,477612E+08
-2891	1,910478E+08	1,664811E+07	0,000000E+00	0,000000E+00	1,665202E+07	1,910742E+08	5,477966E+08	9,911856E+08	1,331202E+09	1,331168E+09	9,911251E+08	5,477592E+08
-2890	1,910640E+08	1,665255E+07	0,000000E+00	0,000000E+00	1,664829E+07	1,910446E+08	5,477453E+08	9,911338E+08	1,331192E+09	1,331208E+09	9,911787E+08	5,477941E+08
-2889	1,910783E+08	1,665573E+07	0,000000E+00	0,000000E+00	1,665769E+07	1,910795E+08	5,477881E+08	9,911695E+08	1,331196E+09	1,331183E+09	9,911283E+08	5,477402E+08
-2888	1,910479E+08	1,664994E+07	0,000000E+00	0,000000E+00	1,665203E+07	1,910621E+08	5,477587E+08	9,911271E+08	1,331151E+09	1,331137E+09	9,911149E+08	5,477668E+08
-2887	1,910833E+08	1,666188E+07	0,000000E+00	0,000000E+00	1,665782E+07	1,910598E+08	5,477330E+08	9,910720E+08	1,331099E+09	1,331123E+09	9,911279E+08	5,477757E+08
-2886	1,910761E+08	1,665981E+07	0,000000E+00	0,000000E+00	1,666537E+07	1,910947E+08	5,477726E+08	9,910864E+08	1,331057E+09	1,331038E+09	9,910318E+08	5,477212E+08
-2885	1,910667E+08	1,666129E+07	0,000000E+00	0,000000E+00	1,666091E+07	1,910679E+08	5,477253E+08	9,910175E+08	1,330990E+09	1,330996E+09	9,910428E+08	5,477620E+08
-2884	1,911060E+08	1,667328E+07	0,000000E+00	0,000000E+00	1,667059E+07	1,910867E+08	5,477344E+08	9,910084E+08	1,330968E+09	1,330972E+09	9,910162E+08	5,477323E+08
-2883	1,910791E+08	1,666816E+07	0,000000E+00	0,000000E+00	1,667301E+07	1,911044E+08	5,477559E+08	9,910173E+08	1,330942E+09	1,330900E+09	9,909337E+08	5,477013E+08
-2882	1,910885E+08	1,667388E+07	0,000000E+00	0,000000E+00	1,667018E+07	1,910737E+08	5,476957E+08	9,909425E+08	1,330906E+09	1,330925E+09	9,909936E+08	5,477466E+08
-2881	1,911103E+08	1,667860E+07	0,000000E+00	0,000000E+00	1,667944E+07	1,911088E+08	5,477393E+08	9,909786E+08	1,330913E+09	1,330914E+09	9,909649E+08	5,477043E+08
-2880	1,910744E+08	1,667066E+07	0,000000E+00	0,000000E+00	1,667469E+07	1,911003E+08	5,477377E+08	9,909862E+08	1,330915E+09	1,330892E+09	9,909519E+08	5,477238E+08
-2879	1,911007E+08	1,667610E+07	0,000000E+00	0,000000E+00	1,667103E+07	1,910773E+08	5,477040E+08	9,909577E+08	1,330926E+09	1,330952E+09	9,910188E+08	5,477544E+08
-2878	1,910983E+08	1,667278E+07	0,000000E+00	0,000000E+00	1,667542E+07	1,911059E+08	5,477539E+08	9,910207E+08	1,330964E+09	1,330950E+09	9,909777E+08	5,477065E+08
-2877	1,910727E+08	1,666606E+07	0,000000E+00	0,000000E+00	1,666407E+07	1,910719E+08	5,477216E+08	9,910096E+08	1,330984E+09	1,330988E+09	9,910321E+08	5,477542E+08
-2876	1,911018E+08	1,667197E+07	0,000000E+00	0,000000E+00	1,666577E+07	1,910730E+08	5,477238E+08	9,910261E+08	1,331028E+09	1,331050E+09	9,910768E+08	5,477564E+08
-2875	1,910753E+08	1,666291E+07	0,000000E+00	0,000000E+00	1,666690E+07	1,910971E+08	5,477739E+08	9,910874E+08	1,331062E+09	1,331038E+09	9,910299E+08	5,477219E+08
-2874	1,910661E+08	1,665918E+07	0,000000E+00	0,000000E+00	1,665629E+07	1,910596E+08	5,477318E+08	9,910605E+08	1,331074E+09	1,331095E+09	9,911087E+08	5,477746E+08
-2873	1,910900E+08	1,666417E+07	0,000000E+00	0,000000E+00	1,666305E+07	1,910822E+08	5,477685E+08	9,911092E+08	1,331110E+09	1,331112E+09	9,911058E+08	5,477478E+08
-2872	1,910560E+08	1,665422E+07	0,000000E+00	0,000000E+00	1,665832E+07	1,910808E+08	5,477794E+08	9,911374E+08	1,331135E+09	1,331091E+09	9,910644E+08	5,477417E+08
-2871	1,910728E+08	1,665952E+07	0,000000E+00	0,000000E+00	1,665488E+07	1,910518E+08	5,477256E+08	9,910726E+08	1,331110E+09	1,331130E+09	9,911258E+08	5,477797E+08
-2870	1,910868E+08	1,666275E+07	0,000000E+00	0,000000E+00	1,666486E+07	1,910876E+08	5,477641E+08	9,910901E+08	1,331086E+09	1,331083E+09	9,910678E+08	5,477276E+08
-2869	1,910591E+08	1,665769E+07	0,000000E+00	0,000000E+00	1,665971E+07	1,910737E+08	5,477428E+08	9,910539E+08	1,331034E+09	1,331027E+09	9,910495E+08	5,477516E+08
-2868	1,910936E+08	1,666980E+07	0,000000E+00	0,000000E+00	1,666581E+07	1,910710E+08	5,477174E+08	9,910030E+08	1,330987E+09	1,331008E+09	9,910567E+08	5,477621E+08
-2867	1,910886E+08	1,666797E+07	0,000000E+00	0,000000E+00	1,667363E+07	1,911090E+08	5,477637E+08	9,910252E+08	1,330950E+09	1,330916E+09	9,909443E+08	5,476964E+08
-2866	1,910764E+08	1,666936E+07	0,000000E+00	0,000000E+00	1,666896E+07	1,910785E+08	5,477100E+08	9,909558E+08	1,330895E+09	1,330892E+09	9,909632E+08	5,477342E+08
-2865	1,911131E+08	1,668097E+07	0,000000E+00	0,000000E+00	1,667844E+07	1,910955E+08	5,477133E+08	9,909392E+08	1,330870E+09	1,330876E+09	9,909509E+08	5,477139E+08
-2864	1,910874E+08	1,667577E+07	0,000000E+00	0,000000E+00	1,668139E+07	1,911151E+08	5,477363E+08	9,909543E+08	1,330858E+09	1,330817E+09	9,908762E+08	5,476853E+08
-2863	1,910965E+08	1,668073E+07	0,000000E+00	0,000000E+00	1,667754E+07	1,910847E+08	5,476809E+08	9,908796E+08	1,330814E+09	1,330842E+09	9,909446E+08	5,477371E+08
-2862	1,911188E+08	1,668473E+07	0,000000E+00	0,000000E+00	1,668555E+07	1,911156E+08	5,477210E+08	9,909126E+08	1,330812E+09	1,330818E+09	9,909096E+08	5,476976E+08
-2861	1,910873E+08	1,667740E+07	0,000000E+00	0,000000E+00	1,667984E+07	1,911048E+08	5,477204E+08	9,909284E+08	1,330824E+09	1,330803E+09	9,908970E+08	5,477118E+08
-2860	1,911112E+08	1,668295E+07	0,000000E+00	0,000000E+00	1,667615E+07	1,910805E+08	5,476828E+08	9,908995E+08	1,330846E+09	1,330873E+09	9,909668E+08	5,477438E+08
-2859	1,911092E+08	1,667971E+07	0,000000E+00	0,000000E+00	1,668164E+07	1,911154E+08	5,477412E+08	9,909654E+08	1,330881E+09	1,330866E+09	9,909170E+08	5,476866E+08
-2858	1,910786E+08	1,667195E+07	0,000000E+00	0,000000E+00	1,667070E+07	1,910833E+08	5,477123E+08	9,909587E+08	1,330906E+09	1,330911E+09	9,909760E+08	5,477325E+08
-2857	1,911037E+08	1,667679E+07	0,000000E+00	0,000000E+00	1,667234E+07	1,910848E+08	5,477177E+08	9,909795E+08	1,330948E+09	1,330971E+09	9,910259E+08	5,477437E+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	1,910803E+08	1,666766E+07	0,000000E+00	0,000000E+00	1,667325E+07	1,911079E+08	5,477690E+08	9,910550E+08	1,331005E+09	1,330968E+09	9,909766E+08	5,477068E+08
-2855	1,910720E+08	1,666412E+07	0,000000E+00	0,000000E+00	1,666161E+07	1,910669E+08	5,477222E+08	9,910208E+08	1,331012E+09	1,331027E+09	9,910603E+08	5,477622E+08
-2854	1,910973E+08	1,666974E+07	0,000000E+00	0,000000E+00	1,666801E+07	1,910846E+08	5,477456E+08	9,910474E+08	1,331027E+09	1,331032E+09	9,910532E+08	5,477377E+08
-2853	1,910679E+08	1,666140E+07	0,000000E+00	0,000000E+00	1,666404E+07	1,910844E+08	5,477543E+08	9,910660E+08	1,331036E+09	1,331006E+09	9,910122E+08	5,477281E+08
-2852	1,910832E+08	1,666745E+07	0,000000E+00	0,000000E+00	1,666222E+07	1,910597E+08	5,477008E+08	9,909926E+08	1,330999E+09	1,331031E+09	9,910692E+08	5,477703E+08
-2851	1,910991E+08	1,667073E+07	0,000000E+00	0,000000E+00	1,667324E+07	1,911025E+08	5,477510E+08	9,910142E+08	1,330962E+09	1,330960E+09	9,909888E+08	5,477079E+08
-2850	1,910692E+08	1,666544E+07	0,000000E+00	0,000000E+00	1,666818E+07	1,910876E+08	5,477321E+08	9,909883E+08	1,330920E+09	1,330906E+09	9,909648E+08	5,477264E+08
-2849	1,911020E+08	1,667733E+07	0,000000E+00	0,000000E+00	1,667371E+07	1,910817E+08	5,477024E+08	9,909389E+08	1,330881E+09	1,330892E+09	9,909759E+08	5,477410E+08
-2848	1,910992E+08	1,667606E+07	0,000000E+00	0,000000E+00	1,668171E+07	1,911184E+08	5,477458E+08	9,909685E+08	1,330868E+09	1,330821E+09	9,908705E+08	5,476734E+08
-2847	1,910860E+08	1,667753E+07	0,000000E+00	0,000000E+00	1,667688E+07	1,910885E+08	5,476916E+08	9,908920E+08	1,330807E+09	1,330809E+09	9,909061E+08	5,477175E+08
-2846	1,911212E+08	1,668837E+07	0,000000E+00	0,000000E+00	1,668593E+07	1,911044E+08	5,476912E+08	9,908634E+08	1,330764E+09	1,330782E+09	9,908953E+08	5,477036E+08
-2845	1,910991E+08	1,668350E+07	0,000000E+00	0,000000E+00	1,668872E+07	1,911252E+08	5,477208E+08	9,908863E+08	1,330751E+09	1,330723E+09	9,908238E+08	5,476748E+08
-2844	1,911072E+08	1,668805E+07	0,000000E+00	0,000000E+00	1,668444E+07	1,910935E+08	5,476650E+08	9,908175E+08	1,330717E+09	1,330748E+09	9,908889E+08	5,477289E+08
-2843	1,911309E+08	1,669178E+07	0,000000E+00	0,000000E+00	1,669202E+07	1,911253E+08	5,477077E+08	9,908531E+08	1,330717E+09	1,330717E+09	9,908384E+08	5,476778E+08
-2842	1,910964E+08	1,668413E+07	0,000000E+00	0,000000E+00	1,668613E+07	1,911120E+08	5,477044E+08	9,908719E+08	1,330741E+09	1,330717E+09	9,908315E+08	5,476882E+08
-2841	1,911163E+08	1,668878E+07	0,000000E+00	0,000000E+00	1,668243E+07	1,910878E+08	5,476653E+08	9,908409E+08	1,330761E+09	1,330790E+09	9,909109E+08	5,477267E+08
-2840	1,911146E+08	1,668529E+07	0,000000E+00	0,000000E+00	1,668834E+07	1,911254E+08	5,477297E+08	9,909201E+08	1,330814E+09	1,330796E+09	9,908680E+08	5,476713E+08
-2839	1,910831E+08	1,667673E+07	0,000000E+00	0,000000E+00	1,667658E+07	1,910943E+08	5,477075E+08	9,909180E+08	1,330837E+09	1,330844E+09	9,909345E+08	5,477219E+08
-2838	1,911082E+08	1,668107E+07	0,000000E+00	0,000000E+00	1,667703E+07	1,910903E+08	5,477062E+08	9,909325E+08	1,330871E+09	1,330892E+09	9,909781E+08	5,477359E+08
-2837	1,910910E+08	1,667347E+07	0,000000E+00	0,000000E+00	1,667758E+07	1,911111E+08	5,477541E+08	9,910063E+08	1,330929E+09	1,330895E+09	9,909302E+08	5,476954E+08
-2836	1,910822E+08	1,667087E+07	0,000000E+00	0,000000E+00	1,666685E+07	1,910701E+08	5,477002E+08	9,909615E+08	1,330933E+09	1,330953E+09	9,910111E+08	5,477526E+08
-2835	1,911094E+08	1,667710E+07	0,000000E+00	0,000000E+00	1,667478E+07	1,910936E+08	5,477265E+08	9,909782E+08	1,330928E+09	1,330938E+09	9,909889E+08	5,477190E+08
-2834	1,910771E+08	1,666871E+07	0,000000E+00	0,000000E+00	1,667196E+07	1,910967E+08	5,477394E+08	9,909978E+08	1,330932E+09	1,330905E+09	9,909443E+08	5,477065E+08
-2833	1,910893E+08	1,667412E+07	0,000000E+00	0,000000E+00	1,667051E+07	1,910733E+08	5,476897E+08	9,909282E+08	1,330888E+09	1,330919E+09	9,909974E+08	5,477528E+08
-2832	1,911081E+08	1,667769E+07	0,000000E+00	0,000000E+00	1,668138E+07	1,911151E+08	5,477419E+08	9,909644E+08	1,330874E+09	1,330857E+09	9,909138E+08	5,476861E+08
-2831	1,910780E+08	1,667269E+07	0,000000E+00	0,000000E+00	1,667563E+07	1,910984E+08	5,477202E+08	9,909335E+08	1,330833E+09	1,330811E+09	9,908957E+08	5,477049E+08
-2830	1,911096E+08	1,668460E+07	0,000000E+00	0,000000E+00	1,668056E+07	1,910874E+08	5,476786E+08	9,908666E+08	1,330780E+09	1,330795E+09	9,909096E+08	5,477238E+08
-2829	1,911118E+08	1,668474E+07	0,000000E+00	0,000000E+00	1,668922E+07	1,911257E+08	5,477208E+08	9,908894E+08	1,330759E+09	1,330729E+09	9,908145E+08	5,476581E+08
-2828	1,910971E+08	1,668625E+07	0,000000E+00	0,000000E+00	1,668524E+07	1,910985E+08	5,476677E+08	9,908105E+08	1,330694E+09	1,330710E+09	9,908505E+08	5,477097E+08
-2827	1,911344E+08	1,669649E+07	0,000000E+00	0,000000E+00	1,669428E+07	1,911182E+08	5,476762E+08	9,907875E+08	1,330643E+09	1,330664E+09	9,908230E+08	5,476883E+08
-2826	1,911112E+08	1,669123E+07	0,000000E+00	0,000000E+00	1,669646E+07	1,911359E+08	5,477067E+08	9,908216E+08	1,330643E+09	1,330611E+09	9,907491E+08	5,476543E+08
-2825	1,911159E+08	1,669479E+07	0,000000E+00	0,000000E+00	1,669119E+07	1,911015E+08	5,476490E+08	9,907573E+08	1,330620E+09	1,330644E+09	9,908189E+08	5,477107E+08
-2824	1,911401E+08	1,669856E+07	0,000000E+00	0,000000E+00	1,669858E+07	1,911324E+08	5,476923E+08	9,908058E+08	1,330647E+09	1,330637E+09	9,907768E+08	5,476563E+08
-2823	1,911024E+08	1,669012E+07	0,000000E+00	0,000000E+00	1,669241E+07	1,911216E+08	5,476929E+08	9,908237E+08	1,330671E+09	1,330650E+09	9,907848E+08	5,476710E+08
-2822	1,911192E+08	1,669356E+07	0,000000E+00	0,000000E+00	1,668793E+07	1,910957E+08	5,476530E+08	9,907893E+08	1,330683E+09	1,330718E+09	9,908668E+08	5,477165E+08
-2821	1,911225E+08	1,669071E+07	0,000000E+00	0,000000E+00	1,669359E+07	1,911332E+08	5,477216E+08	9,908752E+08	1,330738E+09	1,330727E+09	9,908292E+08	5,476630E+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	1,910914E+08	1,668235E+07	0,000000E+00	0,000000E+00	1,668158E+07	1,911001E+08	5,476962E+08	9,908756E+08	1,330769E+09	1,330774E+09	9,908917E+08	5,477160E+08
-2819	1,911191E+08	1,668707E+07	0,000000E+00	0,000000E+00	1,668215E+07	1,910964E+08	5,476920E+08	9,908807E+08	1,330792E+09	1,330809E+09	9,909196E+08	5,477197E+08
-2818	1,911009E+08	1,668016E+07	0,000000E+00	0,000000E+00	1,668326E+07	1,911155E+08	5,477340E+08	9,909471E+08	1,330846E+09	1,330814E+09	9,908716E+08	5,476753E+08
-2817	1,910889E+08	1,667728E+07	0,000000E+00	0,000000E+00	1,667378E+07	1,910778E+08	5,476788E+08	9,908922E+08	1,330834E+09	1,330861E+09	9,909532E+08	5,477372E+08
-2816	1,911177E+08	1,668383E+07	0,000000E+00	0,000000E+00	1,668258E+07	1,911046E+08	5,477107E+08	9,909172E+08	1,330835E+09	1,330844E+09	9,909277E+08	5,477015E+08
-2815	1,910844E+08	1,667509E+07	0,000000E+00	0,000000E+00	1,667965E+07	1,911104E+08	5,477309E+08	9,909395E+08	1,330833E+09	1,330806E+09	9,908825E+08	5,476903E+08
-2814	1,910964E+08	1,668036E+07	0,000000E+00	0,000000E+00	1,667720E+07	1,910818E+08	5,476749E+08	9,908665E+08	1,330785E+09	1,330809E+09	9,909264E+08	5,477362E+08
-2813	1,911205E+08	1,668550E+07	0,000000E+00	0,000000E+00	1,668794E+07	1,911220E+08	5,477241E+08	9,909004E+08	1,330774E+09	1,330758E+09	9,908487E+08	5,476684E+08
-2812	1,910902E+08	1,668152E+07	0,000000E+00	0,000000E+00	1,668316E+07	1,911058E+08	5,476981E+08	9,908641E+08	1,330736E+09	1,330717E+09	9,908336E+08	5,476903E+08
-2811	1,911223E+08	1,669325E+07	0,000000E+00	0,000000E+00	1,668900E+07	1,910995E+08	5,476581E+08	9,907874E+08	1,330665E+09	1,330687E+09	9,908380E+08	5,477029E+08
-2810	1,911226E+08	1,669335E+07	0,000000E+00	0,000000E+00	1,669824E+07	1,911392E+08	5,477047E+08	9,908154E+08	1,330645E+09	1,330619E+09	9,907448E+08	5,476387E+08
-2809	1,911055E+08	1,669369E+07	0,000000E+00	0,000000E+00	1,669415E+07	1,911122E+08	5,476545E+08	9,907428E+08	1,330580E+09	1,330594E+09	9,907795E+08	5,476944E+08
-2808	1,911448E+08	1,670362E+07	0,000000E+00	0,000000E+00	1,670203E+07	1,911285E+08	5,476637E+08	9,907365E+08	1,330556E+09	1,330564E+09	9,907521E+08	5,476685E+08
-2807	1,911201E+08	1,669802E+07	0,000000E+00	0,000000E+00	1,670318E+07	1,911446E+08	5,476931E+08	9,907685E+08	1,330561E+09	1,330524E+09	9,906882E+08	5,476352E+08
-2806	1,911221E+08	1,670082E+07	0,000000E+00	0,000000E+00	1,669661E+07	1,911051E+08	5,476269E+08	9,906946E+08	1,330532E+09	1,330559E+09	9,907615E+08	5,476941E+08
-2805	1,911494E+08	1,670536E+07	0,000000E+00	0,000000E+00	1,670433E+07	1,911381E+08	5,476727E+08	9,907418E+08	1,330558E+09	1,330563E+09	9,907334E+08	5,476439E+08
-2804	1,911104E+08	1,669673E+07	0,000000E+00	0,000000E+00	1,669861E+07	1,911300E+08	5,476782E+08	9,907663E+08	1,330588E+09	1,330575E+09	9,907429E+08	5,476645E+08
-2803	1,911283E+08	1,669931E+07	0,000000E+00	0,000000E+00	1,669400E+07	1,911066E+08	5,476444E+08	9,907368E+08	1,330595E+09	1,330628E+09	9,908102E+08	5,477028E+08
-2802	1,911318E+08	1,669684E+07	0,000000E+00	0,000000E+00	1,669928E+07	1,911405E+08	5,477111E+08	9,908297E+08	1,330661E+09	1,330643E+09	9,907724E+08	5,476476E+08
-2801	1,910989E+08	1,668797E+07	0,000000E+00	0,000000E+00	1,668717E+07	1,911056E+08	5,476805E+08	9,908264E+08	1,330694E+09	1,330692E+09	9,908358E+08	5,477017E+08
-2800	1,911277E+08	1,669325E+07	0,000000E+00	0,000000E+00	1,668814E+07	1,911017E+08	5,476750E+08	9,908349E+08	1,330726E+09	1,330739E+09	9,908670E+08	5,477016E+08
-2799	1,911071E+08	1,668604E+07	0,000000E+00	0,000000E+00	1,668982E+07	1,911252E+08	5,477204E+08	9,908921E+08	1,330767E+09	1,330740E+09	9,908242E+08	5,476591E+08
-2798	1,910923E+08	1,668248E+07	0,000000E+00	0,000000E+00	1,668026E+07	1,910877E+08	5,476657E+08	9,908319E+08	1,330738E+09	1,330768E+09	9,908975E+08	5,477243E+08
-2797	1,911266E+08	1,669015E+07	0,000000E+00	0,000000E+00	1,668926E+07	1,911152E+08	5,477005E+08	9,908590E+08	1,330737E+09	1,330750E+09	9,908717E+08	5,476883E+08
-2796	1,910945E+08	1,668221E+07	0,000000E+00	0,000000E+00	1,668645E+07	1,911194E+08	5,477173E+08	9,908831E+08	1,330741E+09	1,330708E+09	9,908189E+08	5,476768E+08
-2795	1,911084E+08	1,668803E+07	0,000000E+00	0,000000E+00	1,668437E+07	1,910908E+08	5,476571E+08	9,907996E+08	1,330683E+09	1,330701E+09	9,908493E+08	5,477132E+08
-2794	1,911321E+08	1,669423E+07	0,000000E+00	0,000000E+00	1,669570E+07	1,911295E+08	5,477007E+08	9,908265E+08	1,330668E+09	1,330652E+09	9,907754E+08	5,476460E+08
-2793	1,910995E+08	1,668992E+07	0,000000E+00	0,000000E+00	1,669209E+07	1,911163E+08	5,476740E+08	9,907835E+08	1,330619E+09	1,330606E+09	9,907651E+08	5,476737E+08
-2792	1,911331E+08	1,670149E+07	0,000000E+00	0,000000E+00	1,669804E+07	1,911121E+08	5,476416E+08	9,907195E+08	1,330559E+09	1,330580E+09	9,907703E+08	5,476854E+08
-2791	1,911320E+08	1,670088E+07	0,000000E+00	0,000000E+00	1,670660E+07	1,911524E+08	5,476925E+08	9,907507E+08	1,330538E+09	1,330512E+09	9,906792E+08	5,476230E+08
-2790	1,911143E+08	1,670062E+07	0,000000E+00	0,000000E+00	1,670094E+07	1,911198E+08	5,476361E+08	9,906767E+08	1,330475E+09	1,330483E+09	9,907088E+08	5,476793E+08
-2789	1,911578E+08	1,671141E+07	0,000000E+00	0,000000E+00	1,670820E+07	1,911337E+08	5,476416E+08	9,906678E+08	1,330459E+09	1,330470E+09	9,906909E+08	5,476522E+08
-2788	1,911316E+08	1,670622E+07	0,000000E+00	0,000000E+00	1,670984E+07	1,911507E+08	5,476709E+08	9,907026E+08	1,330471E+09	1,330439E+09	9,906329E+08	5,476219E+08
-2787	1,911324E+08	1,670808E+07	0,000000E+00	0,000000E+00	1,670367E+07	1,911159E+08	5,476106E+08	9,906286E+08	1,330436E+09	1,330466E+09	9,907000E+08	5,476746E+08
-2786	1,911568E+08	1,671228E+07	0,000000E+00	0,000000E+00	1,671145E+07	1,911496E+08	5,476636E+08	9,906889E+08	1,330471E+09	1,330474E+09	9,906769E+08	5,476287E+08
-2785	1,911164E+08	1,670233E+07	0,000000E+00	0,000000E+00	1,670541E+07	1,911412E+08	5,476716E+08	9,907227E+08	1,330510E+09	1,330491E+09	9,906889E+08	5,476523E+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	1,911356E+08	1,670461E+07	0,000000E+00	0,000000E+00	1,669980E+07	1,911145E+08	5,476380E+08	9,907068E+08	1,330539E+09	1,330558E+09	9,907570E+08	5,476860E+08
-2783	1,911373E+08	1,670196E+07	0,000000E+00	0,000000E+00	1,670455E+07	1,911467E+08	5,476995E+08	9,907888E+08	1,330602E+09	1,330581E+09	9,907281E+08	5,476330E+08
-2782	1,911029E+08	1,669279E+07	0,000000E+00	0,000000E+00	1,669196E+07	1,911084E+08	5,476590E+08	9,907690E+08	1,330617E+09	1,330619E+09	9,907888E+08	5,476894E+08
-2781	1,911357E+08	1,669917E+07	0,000000E+00	0,000000E+00	1,669382E+07	1,911075E+08	5,476534E+08	9,907668E+08	1,330636E+09	1,330664E+09	9,908258E+08	5,476924E+08
-2780	1,911160E+08	1,669253E+07	0,000000E+00	0,000000E+00	1,669624E+07	1,911341E+08	5,477045E+08	9,908289E+08	1,330672E+09	1,330652E+09	9,907752E+08	5,476528E+08
-2779	1,911030E+08	1,668889E+07	0,000000E+00	0,000000E+00	1,668701E+07	1,910987E+08	5,476536E+08	9,907690E+08	1,330632E+09	1,330656E+09	9,908252E+08	5,477057E+08
-2778	1,911373E+08	1,669770E+07	0,000000E+00	0,000000E+00	1,669598E+07	1,911235E+08	5,476867E+08	9,908017E+08	1,330641E+09	1,330640E+09	9,907957E+08	5,476683E+08
-2777	1,911046E+08	1,668985E+07	0,000000E+00	0,000000E+00	1,669390E+07	1,911280E+08	5,476989E+08	9,908207E+08	1,330646E+09	1,330605E+09	9,907452E+08	5,476562E+08
-2776	1,911187E+08	1,669610E+07	0,000000E+00	0,000000E+00	1,669242E+07	1,911002E+08	5,476395E+08	9,907413E+08	1,330596E+09	1,330608E+09	9,907811E+08	5,476901E+08
-2775	1,911394E+08	1,670186E+07	0,000000E+00	0,000000E+00	1,670429E+07	1,911426E+08	5,476855E+08	9,907598E+08	1,330570E+09	1,330559E+09	9,907168E+08	5,476289E+08
-2774	1,911057E+08	1,669695E+07	0,000000E+00	0,000000E+00	1,670027E+07	1,911277E+08	5,476566E+08	9,907118E+08	1,330508E+09	1,330498E+09	9,907001E+08	5,476608E+08
-2773	1,911448E+08	1,670920E+07	0,000000E+00	0,000000E+00	1,670578E+07	1,911226E+08	5,476243E+08	9,906477E+08	1,330449E+09	1,330476E+09	9,907083E+08	5,476727E+08
-2772	1,911450E+08	1,670925E+07	0,000000E+00	0,000000E+00	1,671386E+07	1,911603E+08	5,476729E+08	9,906831E+08	1,330436E+09	1,330408E+09	9,906124E+08	5,476100E+08
-2771	1,911274E+08	1,670879E+07	0,000000E+00	0,000000E+00	1,670820E+07	1,911279E+08	5,476141E+08	9,906021E+08	1,330365E+09	1,330372E+09	9,906301E+08	5,476555E+08
-2770	1,911684E+08	1,671991E+07	0,000000E+00	0,000000E+00	1,671561E+07	1,911416E+08	5,476194E+08	9,905957E+08	1,330355E+09	1,330366E+09	9,906201E+08	5,476314E+08
-2769	1,911393E+08	1,671361E+07	0,000000E+00	0,000000E+00	1,671799E+07	1,911623E+08	5,476532E+08	9,906342E+08	1,330371E+09	1,330342E+09	9,905714E+08	5,476062E+08
-2768	1,911398E+08	1,671449E+07	0,000000E+00	0,000000E+00	1,671122E+07	1,911287E+08	5,476045E+08	9,905839E+08	1,330356E+09	1,330381E+09	9,906434E+08	5,476578E+08
-2767	1,911618E+08	1,671763E+07	0,000000E+00	0,000000E+00	1,671799E+07	1,911613E+08	5,476601E+08	9,906502E+08	1,330400E+09	1,330397E+09	9,906282E+08	5,476161E+08
-2766	1,911213E+08	1,670710E+07	0,000000E+00	0,000000E+00	1,671016E+07	1,911458E+08	5,476586E+08	9,906798E+08	1,330443E+09	1,330416E+09	9,906390E+08	5,476418E+08
-2765	1,911448E+08	1,671025E+07	0,000000E+00	0,000000E+00	1,670428E+07	1,911173E+08	5,476187E+08	9,906535E+08	1,330471E+09	1,330498E+09	9,907166E+08	5,476760E+08
-2764	1,911466E+08	1,670834E+07	0,000000E+00	0,000000E+00	1,670950E+07	1,911497E+08	5,476771E+08	9,907299E+08	1,330527E+09	1,330515E+09	9,906874E+08	5,476253E+08
-2763	1,911122E+08	1,669882E+07	0,000000E+00	0,000000E+00	1,669802E+07	1,911171E+08	5,476414E+08	9,907029E+08	1,330522E+09	1,330530E+09	9,907315E+08	5,476741E+08
-2762	1,911439E+08	1,670579E+07	0,000000E+00	0,000000E+00	1,670050E+07	1,911177E+08	5,476416E+08	9,907083E+08	1,330539E+09	1,330563E+09	9,907629E+08	5,476787E+08
-2761	1,911240E+08	1,669870E+07	0,000000E+00	0,000000E+00	1,670332E+07	1,911451E+08	5,476940E+08	9,907755E+08	1,330579E+09	1,330550E+09	9,907084E+08	5,476376E+08
-2760	1,911125E+08	1,669562E+07	0,000000E+00	0,000000E+00	1,669385E+07	1,911082E+08	5,476454E+08	9,907281E+08	1,330557E+09	1,330566E+09	9,907554E+08	5,476820E+08
-2759	1,911435E+08	1,670444E+07	0,000000E+00	0,000000E+00	1,670292E+07	1,911322E+08	5,476723E+08	9,907475E+08	1,330561E+09	1,330556E+09	9,907334E+08	5,476473E+08
-2758	1,911106E+08	1,669679E+07	0,000000E+00	0,000000E+00	1,670088E+07	1,911344E+08	5,476748E+08	9,907491E+08	1,330549E+09	1,330513E+09	9,906837E+08	5,476399E+08
-2757	1,911286E+08	1,670395E+07	0,000000E+00	0,000000E+00	1,670039E+07	1,911100E+08	5,476151E+08	9,906582E+08	1,330485E+09	1,330515E+09	9,907263E+08	5,476787E+08
-2756	1,911510E+08	1,671017E+07	0,000000E+00	0,000000E+00	1,671246E+07	1,911535E+08	5,476655E+08	9,906816E+08	1,330454E+09	1,330451E+09	9,906554E+08	5,476216E+08
-2755	1,911198E+08	1,670523E+07	0,000000E+00	0,000000E+00	1,670868E+07	1,911395E+08	5,476379E+08	9,906327E+08	1,330382E+09	1,330370E+09	9,906182E+08	5,476426E+08
-2754	1,911588E+08	1,671824E+07	0,000000E+00	0,000000E+00	1,671361E+07	1,911317E+08	5,476045E+08	9,905750E+08	1,330334E+09	1,330351E+09	9,906245E+08	5,476528E+08
-2753	1,911568E+08	1,671783E+07	0,000000E+00	0,000000E+00	1,672203E+07	1,911697E+08	5,476514E+08	9,906105E+08	1,330328E+09	1,330297E+09	9,905348E+08	5,475887E+08
-2752	1,911379E+08	1,671701E+07	0,000000E+00	0,000000E+00	1,671641E+07	1,911395E+08	5,476011E+08	9,905460E+08	1,330276E+09	1,330277E+09	9,905593E+08	5,476287E+08
-2751	1,911723E+08	1,672651E+07	0,000000E+00	0,000000E+00	1,672369E+07	1,911563E+08	5,476125E+08	9,905436E+08	1,330271E+09	1,330282E+09	9,905635E+08	5,476130E+08
-2750	1,911428E+08	1,671913E+07	0,000000E+00	0,000000E+00	1,672483E+07	1,911735E+08	5,476452E+08	9,905857E+08	1,330290E+09	1,330259E+09	9,905189E+08	5,475945E+08
-2749	1,911474E+08	1,671994E+07	0,000000E+00	0,000000E+00	1,671697E+07	1,911370E+08	5,475938E+08	9,905369E+08	1,330286E+09	1,330314E+09	9,906000E+08	5,476493E+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	1,911713E+08	1,672372E+07	0,000000E+00	0,000000E+00	1,672275E+07	1,911649E+08	5,476441E+08	9,906038E+08	1,330335E+09	1,330332E+09	9,905864E+08	5,476111E+08
-2747	1,911325E+08	1,671320E+07	0,000000E+00	0,000000E+00	1,671497E+07	1,911480E+08	5,476347E+08	9,906163E+08	1,330359E+09	1,330338E+09	9,905844E+08	5,476268E+08
-2746	1,911542E+08	1,671709E+07	0,000000E+00	0,000000E+00	1,670970E+07	1,911209E+08	5,475943E+08	9,905857E+08	1,330380E+09	1,330412E+09	9,906632E+08	5,476634E+08
-2745	1,911543E+08	1,671461E+07	0,000000E+00	0,000000E+00	1,671614E+07	1,911581E+08	5,476574E+08	9,906616E+08	1,330430E+09	1,330426E+09	9,906328E+08	5,476133E+08
-2744	1,911202E+08	1,670475E+07	0,000000E+00	0,000000E+00	1,670480E+07	1,911291E+08	5,476362E+08	9,906570E+08	1,330436E+09	1,330438E+09	9,906686E+08	5,476544E+08
-2743	1,911485E+08	1,671116E+07	0,000000E+00	0,000000E+00	1,670722E+07	1,911300E+08	5,476383E+08	9,906668E+08	1,330461E+09	1,330474E+09	9,907004E+08	5,476607E+08
-2742	1,911297E+08	1,670429E+07	0,000000E+00	0,000000E+00	1,670909E+07	1,911519E+08	5,476805E+08	9,907256E+08	1,330500E+09	1,330462E+09	9,906447E+08	5,476208E+08
-2741	1,911218E+08	1,670246E+07	0,000000E+00	0,000000E+00	1,670021E+07	1,911149E+08	5,476253E+08	9,906657E+08	1,330476E+09	1,330491E+09	9,907015E+08	5,476664E+08
-2740	1,911531E+08	1,671214E+07	0,000000E+00	0,000000E+00	1,670990E+07	1,911396E+08	5,476504E+08	9,906785E+08	1,330468E+09	1,330473E+09	9,906813E+08	5,476368E+08
-2739	1,911216E+08	1,670452E+07	0,000000E+00	0,000000E+00	1,670908E+07	1,911459E+08	5,476544E+08	9,906689E+08	1,330432E+09	1,330404E+09	9,906153E+08	5,476234E+08
-2738	1,911399E+08	1,671245E+07	0,000000E+00	0,000000E+00	1,670900E+07	1,911228E+08	5,475994E+08	9,905841E+08	1,330365E+09	1,330393E+09	9,906519E+08	5,476648E+08
-2737	1,911628E+08	1,671824E+07	0,000000E+00	0,000000E+00	1,672105E+07	1,911655E+08	5,476483E+08	9,906101E+08	1,330339E+09	1,330330E+09	9,905756E+08	5,476041E+08
-2736	1,911328E+08	1,671370E+07	0,000000E+00	0,000000E+00	1,671699E+07	1,911510E+08	5,476259E+08	9,905749E+08	1,330282E+09	1,330258E+09	9,905347E+08	5,476154E+08
-2735	1,911665E+08	1,672598E+07	0,000000E+00	0,000000E+00	1,672170E+07	1,911426E+08	5,475888E+08	9,905113E+08	1,330236E+09	1,330250E+09	9,905506E+08	5,476279E+08
-2734	1,911629E+08	1,672511E+07	0,000000E+00	0,000000E+00	1,672956E+07	1,911782E+08	5,476297E+08	9,905390E+08	1,330227E+09	1,330199E+09	9,904704E+08	5,475709E+08
-2733	1,911466E+08	1,672429E+07	0,000000E+00	0,000000E+00	1,672403E+07	1,911506E+08	5,475833E+08	9,904755E+08	1,330180E+09	1,330195E+09	9,905089E+08	5,476170E+08
-2732	1,911811E+08	1,673348E+07	0,000000E+00	0,000000E+00	1,673026E+07	1,911653E+08	5,475989E+08	9,904850E+08	1,330181E+09	1,330198E+09	9,905141E+08	5,476072E+08
-2731	1,911550E+08	1,672598E+07	0,000000E+00	0,000000E+00	1,673090E+07	1,911801E+08	5,476283E+08	9,905251E+08	1,330197E+09	1,330166E+09	9,904588E+08	5,475821E+08
-2730	1,911599E+08	1,672733E+07	0,000000E+00	0,000000E+00	1,672241E+07	1,911410E+08	5,475742E+08	9,904790E+08	1,330201E+09	1,330224E+09	9,905406E+08	5,476371E+08
-2729	1,911816E+08	1,673054E+07	0,000000E+00	0,000000E+00	1,672855E+07	1,911688E+08	5,476203E+08	9,905401E+08	1,330251E+09	1,330252E+09	9,905317E+08	5,475976E+08
-2728	1,911420E+08	1,671975E+07	0,000000E+00	0,000000E+00	1,672134E+07	1,911568E+08	5,476222E+08	9,905654E+08	1,330280E+09	1,330261E+09	9,905292E+08	5,476057E+08
-2727	1,911570E+08	1,672216E+07	0,000000E+00	0,000000E+00	1,671655E+07	1,911340E+08	5,475888E+08	9,905376E+08	1,330299E+09	1,330333E+09	9,906110E+08	5,476462E+08
-2726	1,911570E+08	1,671911E+07	0,000000E+00	0,000000E+00	1,672221E+07	1,911687E+08	5,476510E+08	9,906158E+08	1,330350E+09	1,330342E+09	9,905783E+08	5,476001E+08
-2725	1,911271E+08	1,670986E+07	0,000000E+00	0,000000E+00	1,671063E+07	1,911389E+08	5,476281E+08	9,906127E+08	1,330367E+09	1,330367E+09	9,906171E+08	5,476399E+08
-2724	1,911559E+08	1,671717E+07	0,000000E+00	0,000000E+00	1,671262E+07	1,911360E+08	5,476253E+08	9,906206E+08	1,330392E+09	1,330402E+09	9,906482E+08	5,476484E+08
-2723	1,911401E+08	1,671110E+07	0,000000E+00	0,000000E+00	1,671515E+07	1,911568E+08	5,476576E+08	9,906578E+08	1,330407E+09	1,330374E+09	9,905833E+08	5,476031E+08
-2722	1,911321E+08	1,671049E+07	0,000000E+00	0,000000E+00	1,670747E+07	1,911223E+08	5,476013E+08	9,905901E+08	1,330370E+09	1,330390E+09	9,906393E+08	5,476532E+08
-2721	1,911632E+08	1,671983E+07	0,000000E+00	0,000000E+00	1,671819E+07	1,911504E+08	5,476286E+08	9,905980E+08	1,330351E+09	1,330365E+09	9,906166E+08	5,476252E+08
-2720	1,911342E+08	1,671252E+07	0,000000E+00	0,000000E+00	1,671769E+07	1,911599E+08	5,476450E+08	9,906057E+08	1,330319E+09	1,330289E+09	9,905390E+08	5,476017E+08
-2719	1,911485E+08	1,671993E+07	0,000000E+00	0,000000E+00	1,671750E+07	1,911366E+08	5,475899E+08	9,905239E+08	1,330259E+09	1,330278E+09	9,905735E+08	5,476430E+08
-2718	1,911720E+08	1,672578E+07	0,000000E+00	0,000000E+00	1,672839E+07	1,911736E+08	5,476286E+08	9,905421E+08	1,330235E+09	1,330220E+09	9,904980E+08	5,475829E+08
-2717	1,911440E+08	1,672196E+07	0,000000E+00	0,000000E+00	1,672475E+07	1,911600E+08	5,476029E+08	9,905009E+08	1,330185E+09	1,330166E+09	9,904684E+08	5,475946E+08
-2716	1,911759E+08	1,673421E+07	0,000000E+00	0,000000E+00	1,672925E+07	1,911522E+08	5,475694E+08	9,904417E+08	1,330138E+09	1,330159E+09	9,904917E+08	5,476136E+08
-2715	1,911736E+08	1,673291E+07	0,000000E+00	0,000000E+00	1,673742E+07	1,911889E+08	5,476113E+08	9,904646E+08	1,330115E+09	1,330095E+09	9,904063E+08	5,475558E+08
-2714	1,911575E+08	1,673226E+07	0,000000E+00	0,000000E+00	1,673152E+07	1,911610E+08	5,475698E+08	9,904141E+08	1,330079E+09	1,330090E+09	9,904466E+08	5,476059E+08
-2713	1,911917E+08	1,674052E+07	0,000000E+00	0,000000E+00	1,673714E+07	1,911736E+08	5,475830E+08	9,904273E+08	1,330092E+09	1,330106E+09	9,904536E+08	5,475949E+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	1,911669E+08	1,673314E+07	0,000000E+00	0,000000E+00	1,673728E+07	1,911876E+08	5,476164E+08	9,904769E+08	1,330119E+09	1,330084E+09	9,903972E+08	5,475599E+08
-2711	1,911652E+08	1,673320E+07	0,000000E+00	0,000000E+00	1,672882E+07	1,911493E+08	5,475594E+08	9,904251E+08	1,330122E+09	1,330147E+09	9,904861E+08	5,476172E+08
-2710	1,911854E+08	1,673578E+07	0,000000E+00	0,000000E+00	1,673445E+07	1,911753E+08	5,476003E+08	9,904768E+08	1,330163E+09	1,330172E+09	9,904816E+08	5,475836E+08
-2709	1,911478E+08	1,672491E+07	0,000000E+00	0,000000E+00	1,672767E+07	1,911672E+08	5,476089E+08	9,905065E+08	1,330197E+09	1,330188E+09	9,904845E+08	5,475944E+08
-2708	1,911631E+08	1,672731E+07	0,000000E+00	0,000000E+00	1,672209E+07	1,911433E+08	5,475823E+08	9,904937E+08	1,330222E+09	1,330254E+09	9,905624E+08	5,476374E+08
-2707	1,911668E+08	1,672476E+07	0,000000E+00	0,000000E+00	1,672750E+07	1,911749E+08	5,476385E+08	9,905651E+08	1,330265E+09	1,330251E+09	9,905185E+08	5,475859E+08
-2706	1,911383E+08	1,671693E+07	0,000000E+00	0,000000E+00	1,671607E+07	1,911440E+08	5,476124E+08	9,905609E+08	1,330286E+09	1,330279E+09	9,905576E+08	5,476256E+08
-2705	1,911654E+08	1,672417E+07	0,000000E+00	0,000000E+00	1,671903E+07	1,911417E+08	5,476035E+08	9,905571E+08	1,330306E+09	1,330319E+09	9,905910E+08	5,476328E+08
-2704	1,911508E+08	1,671860E+07	0,000000E+00	0,000000E+00	1,672260E+07	1,911678E+08	5,476455E+08	9,905992E+08	1,330315E+09	1,330285E+09	9,905221E+08	5,475814E+08
-2703	1,911375E+08	1,671712E+07	0,000000E+00	0,000000E+00	1,671602E+07	1,911374E+08	5,475927E+08	9,905302E+08	1,330270E+09	1,330290E+09	9,905753E+08	5,476351E+08
-2702	1,911702E+08	1,672626E+07	0,000000E+00	0,000000E+00	1,672577E+07	1,911610E+08	5,476137E+08	9,905332E+08	1,330245E+09	1,330257E+09	9,905483E+08	5,476105E+08
-2701	1,911458E+08	1,672001E+07	0,000000E+00	0,000000E+00	1,672543E+07	1,911704E+08	5,476274E+08	9,905392E+08	1,330222E+09	1,330191E+09	9,904720E+08	5,475845E+08
-2700	1,911602E+08	1,672818E+07	0,000000E+00	0,000000E+00	1,672451E+07	1,911435E+08	5,475692E+08	9,904554E+08	1,330158E+09	1,330176E+09	9,905036E+08	5,476251E+08
-2699	1,911849E+08	1,673447E+07	0,000000E+00	0,000000E+00	1,673580E+07	1,911794E+08	5,475994E+08	9,904558E+08	1,330115E+09	1,330107E+09	9,904237E+08	5,475621E+08
-2698	1,911564E+08	1,673148E+07	0,000000E+00	0,000000E+00	1,673317E+07	1,911698E+08	5,475787E+08	9,904176E+08	1,330064E+09	1,330050E+09	9,903980E+08	5,475781E+08
-2697	1,911857E+08	1,674231E+07	0,000000E+00	0,000000E+00	1,673791E+07	1,911644E+08	5,475505E+08	9,903642E+08	1,330022E+09	1,330049E+09	9,904244E+08	5,475992E+08
-2696	1,911857E+08	1,674095E+07	0,000000E+00	0,000000E+00	1,674580E+07	1,912031E+08	5,476056E+08	9,904095E+08	1,330014E+09	1,329989E+09	9,903368E+08	5,475356E+08
-2695	1,911652E+08	1,673905E+07	0,000000E+00	0,000000E+00	1,673924E+07	1,911732E+08	5,475617E+08	9,903650E+08	1,329992E+09	1,329995E+09	9,903809E+08	5,475866E+08
-2694	1,911990E+08	1,674668E+07	0,000000E+00	0,000000E+00	1,674314E+07	1,911790E+08	5,475641E+08	9,903705E+08	1,330010E+09	1,330021E+09	9,903950E+08	5,475787E+08
-2693	1,911758E+08	1,673955E+07	0,000000E+00	0,000000E+00	1,674358E+07	1,911944E+08	5,475956E+08	9,904162E+08	1,330044E+09	1,330018E+09	9,903510E+08	5,475446E+08
-2692	1,911714E+08	1,673898E+07	0,000000E+00	0,000000E+00	1,673458E+07	1,911576E+08	5,475462E+08	9,903718E+08	1,330043E+09	1,330075E+09	9,904417E+08	5,476061E+08
-2691	1,911925E+08	1,674116E+07	0,000000E+00	0,000000E+00	1,674023E+07	1,911834E+08	5,475872E+08	9,904191E+08	1,330071E+09	1,330085E+09	9,904304E+08	5,475721E+08
-2690	1,911567E+08	1,673092E+07	0,000000E+00	0,000000E+00	1,673334E+07	1,911761E+08	5,476014E+08	9,904624E+08	1,330116E+09	1,330097E+09	9,904297E+08	5,475835E+08
-2689	1,911711E+08	1,673290E+07	0,000000E+00	0,000000E+00	1,672764E+07	1,911502E+08	5,475711E+08	9,904500E+08	1,330151E+09	1,330175E+09	9,905067E+08	5,476234E+08
-2688	1,911773E+08	1,673139E+07	0,000000E+00	0,000000E+00	1,673325E+07	1,911821E+08	5,476296E+08	9,905230E+08	1,330195E+09	1,330175E+09	9,904604E+08	5,475638E+08
-2687	1,911434E+08	1,672304E+07	0,000000E+00	0,000000E+00	1,672280E+07	1,911526E+08	5,475978E+08	9,905078E+08	1,330208E+09	1,330202E+09	9,905031E+08	5,476058E+08
-2686	1,911705E+08	1,673013E+07	0,000000E+00	0,000000E+00	1,672574E+07	1,911490E+08	5,475819E+08	9,904879E+08	1,330210E+09	1,330233E+09	9,905380E+08	5,476197E+08
-2685	1,911595E+08	1,672515E+07	0,000000E+00	0,000000E+00	1,673007E+07	1,911783E+08	5,476263E+08	9,905279E+08	1,330215E+09	1,330196E+09	9,904684E+08	5,475695E+08
-2684	1,911475E+08	1,672421E+07	0,000000E+00	0,000000E+00	1,672316E+07	1,911476E+08	5,475793E+08	9,904677E+08	1,330166E+09	1,330185E+09	9,905115E+08	5,476238E+08
-2683	1,911838E+08	1,673410E+07	0,000000E+00	0,000000E+00	1,673269E+07	1,911672E+08	5,475902E+08	9,904567E+08	1,330128E+09	1,330137E+09	9,904716E+08	5,475928E+08
-2682	1,911604E+08	1,672939E+07	0,000000E+00	0,000000E+00	1,673301E+07	1,911778E+08	5,476038E+08	9,904627E+08	1,330105E+09	1,330069E+09	9,903938E+08	5,475649E+08
-2681	1,911719E+08	1,673715E+07	0,000000E+00	0,000000E+00	1,673302E+07	1,911532E+08	5,475453E+08	9,903759E+08	1,330045E+09	1,330066E+09	9,904286E+08	5,476027E+08
-2680	1,911960E+08	1,674338E+07	0,000000E+00	0,000000E+00	1,674498E+07	1,911945E+08	5,475888E+08	9,903876E+08	1,330003E+09	1,329996E+09	9,903485E+08	5,475363E+08
-2679	1,911622E+08	1,673900E+07	0,000000E+00	0,000000E+00	1,674280E+07	1,911875E+08	5,475732E+08	9,903599E+08	1,329961E+09	1,329942E+09	9,903269E+08	5,475566E+08
-2678	1,911919E+08	1,674874E+07	0,000000E+00	0,000000E+00	1,674577E+07	1,911762E+08	5,475389E+08	9,903073E+08	1,329927E+09	1,329948E+09	9,903582E+08	5,475829E+08
-2677	1,911957E+08	1,674793E+07	0,000000E+00	0,000000E+00	1,675311E+07	1,912125E+08	5,475894E+08	9,903537E+08	1,329935E+09	1,329908E+09	9,902809E+08	5,475211E+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												
-2676	1,911749E+08	1,674603E+07	0,000000E+00	0,000000E+00	1,674526E+07	1,911787E+08	5,475434E+08	9,903085E+08	1,329912E+09	1,329916E+09	9,903285E+08	5,475741E+08
-2675	1,912092E+08	1,675348E+07	0,000000E+00	0,000000E+00	1,674880E+07	1,911814E+08	5,475352E+08	9,902950E+08	1,329910E+09	1,329932E+09	9,903411E+08	5,475657E+08
-2674	1,911863E+08	1,674693E+07	0,000000E+00	0,000000E+00	1,674985E+07	1,912012E+08	5,475743E+08	9,903456E+08	1,329941E+09	1,329922E+09	9,902992E+08	5,475351E+08
-2673	1,911795E+08	1,674509E+07	0,000000E+00	0,000000E+00	1,674087E+07	1,911666E+08	5,475324E+08	9,903121E+08	1,329951E+09	1,329984E+09	9,903862E+08	5,475940E+08
-2672	1,912024E+08	1,674751E+07	0,000000E+00	0,000000E+00	1,674639E+07	1,911945E+08	5,475856E+08	9,903796E+08	1,329991E+09	1,329994E+09	9,903692E+08	5,475535E+08
-2671	1,911630E+08	1,673661E+07	0,000000E+00	0,000000E+00	1,673952E+07	1,911861E+08	5,475965E+08	9,904274E+08	1,330051E+09	1,330018E+09	9,903701E+08	5,475636E+08
-2670	1,911764E+08	1,673823E+07	0,000000E+00	0,000000E+00	1,673295E+07	1,911548E+08	5,475541E+08	9,904013E+08	1,330083E+09	1,330103E+09	9,904541E+08	5,476069E+08
-2669	1,911847E+08	1,673757E+07	0,000000E+00	0,000000E+00	1,673956E+07	1,911890E+08	5,476091E+08	9,904657E+08	1,330126E+09	1,330114E+09	9,904189E+08	5,475508E+08
-2668	1,911502E+08	1,672919E+07	0,000000E+00	0,000000E+00	1,672925E+07	1,911615E+08	5,475828E+08	9,904488E+08	1,330122E+09	1,330122E+09	9,904567E+08	5,475959E+08
-2667	1,911793E+08	1,673649E+07	0,000000E+00	0,000000E+00	1,673237E+07	1,911564E+08	5,475618E+08	9,904157E+08	1,330101E+09	1,330130E+09	9,904795E+08	5,476093E+08
-2666	1,911720E+08	1,673290E+07	0,000000E+00	0,000000E+00	1,673713E+07	1,911875E+08	5,476102E+08	9,904623E+08	1,330106E+09	1,330080E+09	9,904002E+08	5,475568E+08
-2665	1,911591E+08	1,673201E+07	0,000000E+00	0,000000E+00	1,673063E+07	1,911563E+08	5,475607E+08	9,904006E+08	1,330062E+09	1,330074E+09	9,904346E+08	5,476037E+08
-2664	1,911966E+08	1,674284E+07	0,000000E+00	0,000000E+00	1,674070E+07	1,911781E+08	5,475760E+08	9,903905E+08	1,330021E+09	1,330023E+09	9,903900E+08	5,475648E+08
-2663	1,911677E+08	1,673758E+07	0,000000E+00	0,000000E+00	1,674225E+07	1,911913E+08	5,475873E+08	9,903928E+08	1,329997E+09	1,329959E+09	9,903159E+08	5,475380E+08
-2662	1,911776E+08	1,674447E+07	0,000000E+00	0,000000E+00	1,674182E+07	1,911656E+08	5,475263E+08	9,903004E+08	1,329932E+09	1,329956E+09	9,903587E+08	5,475831E+08
-2661	1,912044E+08	1,675088E+07	0,000000E+00	0,000000E+00	1,675385E+07	1,912084E+08	5,475736E+08	9,903204E+08	1,329903E+09	1,329898E+09	9,902877E+08	5,475225E+08
-2660	1,911724E+08	1,674658E+07	0,000000E+00	0,000000E+00	1,675043E+07	1,911983E+08	5,475616E+08	9,903037E+08	1,329867E+09	1,329844E+09	9,902653E+08	5,475453E+08
-2659	1,912048E+08	1,675638E+07	0,000000E+00	0,000000E+00	1,675210E+07	1,911803E+08	5,475140E+08	9,902368E+08	1,329826E+09	1,329848E+09	9,902941E+08	5,475698E+08
-2658	1,912102E+08	1,675670E+07	0,000000E+00	0,000000E+00	1,675952E+07	1,912168E+08	5,475639E+08	9,902825E+08	1,329834E+09	1,329809E+09	9,902202E+08	5,475081E+08
-2657	1,911858E+08	1,675380E+07	0,000000E+00	0,000000E+00	1,675215E+07	1,911856E+08	5,475202E+08	9,902374E+08	1,329815E+09	1,329825E+09	9,902694E+08	5,475586E+08
-2656	1,912190E+08	1,676072E+07	0,000000E+00	0,000000E+00	1,675606E+07	1,911939E+08	5,475264E+08	9,902360E+08	1,329813E+09	1,329836E+09	9,902793E+08	5,475461E+08
-2655	1,911906E+08	1,675266E+07	0,000000E+00	0,000000E+00	1,675735E+07	1,912156E+08	5,475714E+08	9,903019E+08	1,329859E+09	1,329832E+09	9,902386E+08	5,475166E+08
-2654	1,911837E+08	1,674978E+07	0,000000E+00	0,000000E+00	1,674678E+07	1,911761E+08	5,475255E+08	9,902727E+08	1,329881E+09	1,329906E+09	9,903305E+08	5,475776E+08
-2653	1,912086E+08	1,675287E+07	0,000000E+00	0,000000E+00	1,675205E+07	1,912015E+08	5,475730E+08	9,903400E+08	1,329938E+09	1,329934E+09	9,903229E+08	5,475394E+08
-2652	1,911699E+08	1,674235E+07	0,000000E+00	0,000000E+00	1,674446E+07	1,911904E+08	5,475814E+08	9,903828E+08	1,329990E+09	1,329957E+09	9,903272E+08	5,475517E+08
-2651	1,911840E+08	1,674410E+07	0,000000E+00	0,000000E+00	1,673821E+07	1,911570E+08	5,475267E+08	9,903310E+08	1,329993E+09	1,330024E+09	9,904076E+08	5,475967E+08
-2650	1,911943E+08	1,674453E+07	0,000000E+00	0,000000E+00	1,674581E+07	1,911957E+08	5,475873E+08	9,903930E+08	1,330019E+09	1,330017E+09	9,903684E+08	5,475441E+08
-2649	1,911596E+08	1,673581E+07	0,000000E+00	0,000000E+00	1,673632E+07	1,911714E+08	5,475666E+08	9,903812E+08	1,330016E+09	1,330018E+09	9,903941E+08	5,475846E+08
-2648	1,911917E+08	1,674400E+07	0,000000E+00	0,000000E+00	1,673978E+07	1,911684E+08	5,475532E+08	9,903565E+08	1,329994E+09	1,330013E+09	9,904027E+08	5,475886E+08
-2647	1,911812E+08	1,674039E+07	0,000000E+00	0,000000E+00	1,674512E+07	1,911993E+08	5,475982E+08	9,904047E+08	1,330008E+09	1,329970E+09	9,903190E+08	5,475317E+08
-2646	1,911673E+08	1,673947E+07	0,000000E+00	0,000000E+00	1,673835E+07	1,911653E+08	5,475405E+08	9,903333E+08	1,329964E+09	1,329970E+09	9,903581E+08	5,475780E+08
-2645	1,912045E+08	1,675078E+07	0,000000E+00	0,000000E+00	1,674931E+07	1,911899E+08	5,475559E+08	9,903223E+08	1,329929E+09	1,329931E+09	9,903249E+08	5,475443E+08
-2644	1,911756E+08	1,674540E+07	0,000000E+00	0,000000E+00	1,675070E+07	1,912047E+08	5,475750E+08	9,903294E+08	1,329899E+09	1,329861E+09	9,902539E+08	5,475232E+08
-2643	1,911872E+08	1,675197E+07	0,000000E+00	0,000000E+00	1,674963E+07	1,911750E+08	5,475069E+08	9,902274E+08	1,329820E+09	1,329847E+09	9,902933E+08	5,475715E+08
-2642	1,912180E+08	1,675957E+07	0,000000E+00	0,000000E+00	1,676138E+07	1,912173E+08	5,475550E+08	9,902519E+08	1,329793E+09	1,329786E+09	9,902229E+08	5,475129E+08
-2641	1,911864E+08	1,675529E+07	0,000000E+00	0,000000E+00	1,675792E+07	1,912051E+08	5,475383E+08	9,902322E+08	1,329767E+09	1,329743E+09	9,901973E+08	5,475299E+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°
-2640	1,912187E+08	1,676524E+07	0,000000E+00	0,000000E+00	1,675963E+07	1,911890E+08	5,474940E+08	9,901638E+08	1,329720E+09	1,329744E+09	9,902232E+08	5,475477E+08
-2639	1,912183E+08	1,676455E+07	0,000000E+00	0,000000E+00	1,676779E+07	1,912280E+08	5,475446E+08	9,902115E+08	1,329731E+09	1,329709E+09	9,901519E+08	5,474863E+08
-2638	1,911913E+08	1,675995E+07	0,000000E+00	0,000000E+00	1,675956E+07	1,911967E+08	5,475037E+08	9,901696E+08	1,329714E+09	1,329727E+09	9,902061E+08	5,475404E+08
-2637	1,912246E+08	1,676648E+07	0,000000E+00	0,000000E+00	1,676316E+07	1,912060E+08	5,475174E+08	9,901875E+08	1,329735E+09	1,329753E+09	9,902251E+08	5,475334E+08
-2636	1,911978E+08	1,675824E+07	0,000000E+00	0,000000E+00	1,676304E+07	1,912246E+08	5,475663E+08	9,902655E+08	1,329792E+09	1,329756E+09	9,901875E+08	5,475050E+08
-2635	1,911918E+08	1,675525E+07	0,000000E+00	0,000000E+00	1,675129E+07	1,911784E+08	5,475067E+08	9,902217E+08	1,329810E+09	1,329832E+09	9,902808E+08	5,475660E+08
-2634	1,912186E+08	1,675966E+07	0,000000E+00	0,000000E+00	1,675709E+07	1,912050E+08	5,475531E+08	9,902840E+08	1,329860E+09	1,329862E+09	9,902790E+08	5,475304E+08
-2633	1,911785E+08	1,674878E+07	0,000000E+00	0,000000E+00	1,675032E+07	1,911964E+08	5,475613E+08	9,903215E+08	1,329909E+09	1,329885E+09	9,902796E+08	5,475401E+08
-2632	1,911926E+08	1,675056E+07	0,000000E+00	0,000000E+00	1,674508E+07	1,911691E+08	5,475175E+08	9,902721E+08	1,329898E+09	1,329931E+09	9,903490E+08	5,475808E+08
-2631	1,912003E+08	1,675046E+07	0,000000E+00	0,000000E+00	1,675327E+07	1,912084E+08	5,475796E+08	9,903412E+08	1,329928E+09	1,329917E+09	9,903003E+08	5,475260E+08
-2630	1,911664E+08	1,674150E+07	0,000000E+00	0,000000E+00	1,674321E+07	1,911815E+08	5,475546E+08	9,903274E+08	1,329926E+09	1,329919E+09	9,903227E+08	5,475643E+08
-2629	1,912000E+08	1,675085E+07	0,000000E+00	0,000000E+00	1,674703E+07	1,911776E+08	5,475370E+08	9,903020E+08	1,329915E+09	1,329925E+09	9,903366E+08	5,475691E+08
-2628	1,911901E+08	1,674782E+07	0,000000E+00	0,000000E+00	1,675219E+07	1,912076E+08	5,475804E+08	9,903430E+08	1,329919E+09	1,329879E+09	9,902559E+08	5,475132E+08
-2627	1,911762E+08	1,674720E+07	0,000000E+00	0,000000E+00	1,674573E+07	1,911718E+08	5,475124E+08	9,902498E+08	1,329851E+09	1,329867E+09	9,902942E+08	5,475623E+08
-2626	1,912153E+08	1,675939E+07	0,000000E+00	0,000000E+00	1,675738E+07	1,912005E+08	5,475346E+08	9,902404E+08	1,329805E+09	1,329818E+09	9,902607E+08	5,475333E+08
-2625	1,911880E+08	1,675400E+07	0,000000E+00	0,000000E+00	1,675918E+07	1,912160E+08	5,475569E+08	9,902551E+08	1,329784E+09	1,329748E+09	9,901834E+08	5,475104E+08
-2624	1,912022E+08	1,676105E+07	0,000000E+00	0,000000E+00	1,675816E+07	1,911878E+08	5,474935E+08	9,901583E+08	1,329705E+09	1,329725E+09	9,902136E+08	5,475518E+08
-2623	1,912295E+08	1,676824E+07	0,000000E+00	0,000000E+00	1,676986E+07	1,912279E+08	5,475365E+08	9,901838E+08	1,329689E+09	1,329674E+09	9,901424E+08	5,474906E+08
-2622	1,911966E+08	1,676328E+07	0,000000E+00	0,000000E+00	1,676607E+07	1,912143E+08	5,475152E+08	9,901575E+08	1,329662E+09	1,329642E+09	9,901256E+08	5,475075E+08
-2621	1,912267E+08	1,677268E+07	0,000000E+00	0,000000E+00	1,676789E+07	1,912007E+08	5,474750E+08	9,900961E+08	1,329626E+09	1,329653E+09	9,901621E+08	5,475292E+08
-2620	1,912245E+08	1,677105E+07	0,000000E+00	0,000000E+00	1,677513E+07	1,912406E+08	5,475360E+08	9,901565E+08	1,329641E+09	1,329620E+09	9,900960E+08	5,474725E+08
-2619	1,911980E+08	1,676559E+07	0,000000E+00	0,000000E+00	1,676561E+07	1,912048E+08	5,474908E+08	9,901152E+08	1,329626E+09	1,329638E+09	9,901496E+08	5,475277E+08
-2618	1,912335E+08	1,677276E+07	0,000000E+00	0,000000E+00	1,676856E+07	1,912130E+08	5,475066E+08	9,901413E+08	1,329657E+09	1,329670E+09	9,901729E+08	5,475234E+08
-2617	1,912079E+08	1,676480E+07	0,000000E+00	0,000000E+00	1,676824E+07	1,912289E+08	5,475499E+08	9,902170E+08	1,329726E+09	1,329689E+09	9,901383E+08	5,474930E+08
-2616	1,912021E+08	1,676199E+07	0,000000E+00	0,000000E+00	1,675702E+07	1,911850E+08	5,474906E+08	9,901651E+08	1,329729E+09	1,329754E+09	9,902274E+08	5,475491E+08
-2615	1,912246E+08	1,676583E+07	0,000000E+00	0,000000E+00	1,676377E+07	1,912135E+08	5,475357E+08	9,902229E+08	1,329773E+09	1,329780E+09	9,902240E+08	5,475152E+08
-2614	1,911844E+08	1,675411E+07	0,000000E+00	0,000000E+00	1,675688E+07	1,912057E+08	5,475450E+08	9,902571E+08	1,329814E+09	1,329796E+09	9,902233E+08	5,475257E+08
-2613	1,911995E+08	1,675626E+07	0,000000E+00	0,000000E+00	1,675198E+07	1,911797E+08	5,475061E+08	9,902209E+08	1,329815E+09	1,329843E+09	9,902913E+08	5,475677E+08
-2612	1,912093E+08	1,675664E+07	0,000000E+00	0,000000E+00	1,675932E+07	1,912168E+08	5,475689E+08	9,902932E+08	1,329848E+09	1,329828E+09	9,902392E+08	5,475113E+08
-2611	1,911765E+08	1,674830E+07	0,000000E+00	0,000000E+00	1,674901E+07	1,911857E+08	5,475318E+08	9,902617E+08	1,329834E+09	1,329824E+09	9,902568E+08	5,475466E+08
-2610	1,912110E+08	1,675906E+07	0,000000E+00	0,000000E+00	1,675394E+07	1,911850E+08	5,475155E+08	9,902307E+08	1,329811E+09	1,329827E+09	9,902740E+08	5,475534E+08
-2609	1,912010E+08	1,675621E+07	0,000000E+00	0,000000E+00	1,676021E+07	1,912181E+08	5,475605E+08	9,902684E+08	1,329813E+09	1,329781E+09	9,901925E+08	5,474970E+08
-2608	1,911870E+08	1,675563E+07	0,000000E+00	0,000000E+00	1,675480E+07	1,911876E+08	5,475017E+08	9,901786E+08	1,329734E+09	1,329751E+09	9,902206E+08	5,475431E+08
-2607	1,912241E+08	1,676726E+07	0,000000E+00	0,000000E+00	1,676659E+07	1,912154E+08	5,475240E+08	9,901768E+08	1,329697E+09	1,329702E+09	9,901811E+08	5,475140E+08
-2606	1,911986E+08	1,676173E+07	0,000000E+00	0,000000E+00	1,676766E+07	1,912270E+08	5,475390E+08	9,901864E+08	1,329678E+09	1,329639E+09	9,901060E+08	5,474890E+08
-2605	1,912131E+08	1,676932E+07	0,000000E+00	0,000000E+00	1,676654E+07	1,911975E+08	5,474729E+08	9,900925E+08	1,329612E+09	1,329627E+09	9,901441E+08	5,475324E+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												
-2604	1,912397E+08	1,677625E+07	0,000000E+00	0,000000E+00	1,677747E+07	1,912361E+08	5,475146E+08	9,901128E+08	1,329588E+09	1,329578E+09	9,900776E+08	5,474723E+08
-2603	1,912053E+08	1,677070E+07	0,000000E+00	0,000000E+00	1,677336E+07	1,912214E+08	5,474881E+08	9,900735E+08	1,329545E+09	1,329536E+09	9,900625E+08	5,474921E+08
-2602	1,912361E+08	1,678006E+07	0,000000E+00	0,000000E+00	1,677501E+07	1,912115E+08	5,474596E+08	9,900251E+08	1,329512E+09	1,329547E+09	9,901023E+08	5,475179E+08
-2601	1,912352E+08	1,677819E+07	0,000000E+00	0,000000E+00	1,678175E+07	1,912497E+08	5,475241E+08	9,901002E+08	1,329548E+09	1,329526E+09	9,900370E+08	5,474608E+08
-2600	1,912100E+08	1,677277E+07	0,000000E+00	0,000000E+00	1,677190E+07	1,912146E+08	5,474823E+08	9,900667E+08	1,329542E+09	1,329546E+09	9,900856E+08	5,475096E+08
-2599	1,912415E+08	1,677940E+07	0,000000E+00	0,000000E+00	1,677476E+07	1,912203E+08	5,474929E+08	9,900942E+08	1,329586E+09	1,329593E+09	9,901113E+08	5,475043E+08
-2598	1,912155E+08	1,677089E+07	0,000000E+00	0,000000E+00	1,677436E+07	1,912351E+08	5,475310E+08	9,901603E+08	1,329651E+09	1,329620E+09	9,900878E+08	5,474753E+08
-2597	1,912076E+08	1,676764E+07	0,000000E+00	0,000000E+00	1,676371E+07	1,911947E+08	5,474769E+08	9,901150E+08	1,329658E+09	1,329686E+09	9,901830E+08	5,475363E+08
-2596	1,912296E+08	1,677084E+07	0,000000E+00	0,000000E+00	1,676980E+07	1,912232E+08	5,475271E+08	9,901754E+08	1,329696E+09	1,329704E+09	9,901779E+08	5,475050E+08
-2595	1,911912E+08	1,675909E+07	0,000000E+00	0,000000E+00	1,676229E+07	1,912119E+08	5,475297E+08	9,902007E+08	1,329725E+09	1,329708E+09	9,901695E+08	5,475142E+08
-2594	1,912093E+08	1,676265E+07	0,000000E+00	0,000000E+00	1,675765E+07	1,911868E+08	5,474924E+08	9,901651E+08	1,329724E+09	1,329752E+09	9,902329E+08	5,475543E+08
-2593	1,912206E+08	1,676407E+07	0,000000E+00	0,000000E+00	1,676543E+07	1,912224E+08	5,475496E+08	9,902315E+08	1,329760E+09	1,329742E+09	9,901788E+08	5,474952E+08
-2592	1,911881E+08	1,675644E+07	0,000000E+00	0,000000E+00	1,675661E+07	1,911963E+08	5,475139E+08	9,901908E+08	1,329728E+09	1,329721E+09	9,901868E+08	5,475240E+08
-2591	1,912178E+08	1,676667E+07	0,000000E+00	0,000000E+00	1,676260E+07	1,911976E+08	5,474983E+08	9,901580E+08	1,329701E+09	1,329719E+09	9,901993E+08	5,475322E+08
-2590	1,912092E+08	1,676346E+07	0,000000E+00	0,000000E+00	1,676893E+07	1,912314E+08	5,475448E+08	9,901946E+08	1,329697E+09	1,329670E+09	9,901214E+08	5,474789E+08
-2589	1,911967E+08	1,676333E+07	0,000000E+00	0,000000E+00	1,676369E+07	1,912007E+08	5,474889E+08	9,901183E+08	1,329633E+09	1,329642E+09	9,901493E+08	5,475268E+08
-2588	1,912356E+08	1,677508E+07	0,000000E+00	0,000000E+00	1,677414E+07	1,912246E+08	5,475077E+08	9,901144E+08	1,329599E+09	1,329598E+09	9,901110E+08	5,474975E+08
-2587	1,912113E+08	1,677011E+07	0,000000E+00	0,000000E+00	1,677487E+07	1,912319E+08	5,475101E+08	9,901056E+08	1,329568E+09	1,329533E+09	9,900365E+08	5,474713E+08
-2586	1,912260E+08	1,677832E+07	0,000000E+00	0,000000E+00	1,677423E+07	1,912061E+08	5,474483E+08	9,900097E+08	1,329493E+09	1,329520E+09	9,900785E+08	5,475158E+08
-2585	1,912514E+08	1,678491E+07	0,000000E+00	0,000000E+00	1,678534E+07	1,912462E+08	5,474940E+08	9,900353E+08	1,329476E+09	1,329474E+09	9,900135E+08	5,474571E+08
-2584	1,912165E+08	1,677882E+07	0,000000E+00	0,000000E+00	1,678169E+07	1,912361E+08	5,474782E+08	9,900071E+08	1,329432E+09	1,329421E+09	9,899892E+08	5,474722E+08
-2583	1,912436E+08	1,678702E+07	0,000000E+00	0,000000E+00	1,678271E+07	1,912242E+08	5,474522E+08	9,899750E+08	1,329422E+09	1,329445E+09	9,900280E+08	5,474974E+08
-2582	1,912441E+08	1,678480E+07	0,000000E+00	0,000000E+00	1,678853E+07	1,912583E+08	5,475111E+08	9,900492E+08	1,329470E+09	1,329443E+09	9,899766E+08	5,474420E+08
-2581	1,912180E+08	1,677939E+07	0,000000E+00	0,000000E+00	1,677844E+07	1,912216E+08	5,474676E+08	9,900225E+08	1,329480E+09	1,329479E+09	9,900361E+08	5,474934E+08
-2580	1,912478E+08	1,678528E+07	0,000000E+00	0,000000E+00	1,678051E+07	1,912261E+08	5,474755E+08	9,900414E+08	1,329516E+09	1,329529E+09	9,900695E+08	5,474918E+08
-2579	1,912217E+08	1,677632E+07	0,000000E+00	0,000000E+00	1,677982E+07	1,912395E+08	5,475073E+08	9,900913E+08	1,329559E+09	1,329542E+09	9,900450E+08	5,474658E+08
-2578	1,912153E+08	1,677322E+07	0,000000E+00	0,000000E+00	1,676947E+07	1,912035E+08	5,474642E+08	9,900535E+08	1,329558E+09	1,329597E+09	9,901358E+08	5,475290E+08
-2577	1,912399E+08	1,677701E+07	0,000000E+00	0,000000E+00	1,677534E+07	1,912298E+08	5,475138E+08	9,901214E+08	1,329607E+09	1,329615E+09	9,901241E+08	5,474950E+08
-2576	1,912031E+08	1,676592E+07	0,000000E+00	0,000000E+00	1,676846E+07	1,912212E+08	5,475181E+08	9,901463E+08	1,329633E+09	1,329608E+09	9,901016E+08	5,474948E+08
-2575	1,912178E+08	1,676969E+07	0,000000E+00	0,000000E+00	1,676456E+07	1,911957E+08	5,474783E+08	9,901107E+08	1,329639E+09	1,329659E+09	9,901603E+08	5,475306E+08
-2574	1,912289E+08	1,677106E+07	0,000000E+00	0,000000E+00	1,677287E+07	1,912319E+08	5,475313E+08	9,901656E+08	1,329666E+09	1,329652E+09	9,901150E+08	5,474734E+08
-2573	1,911948E+08	1,676354E+07	0,000000E+00	0,000000E+00	1,676502E+07	1,912094E+08	5,475026E+08	9,901357E+08	1,329640E+09	1,329630E+09	9,901263E+08	5,475059E+08
-2572	1,912241E+08	1,677309E+07	0,000000E+00	0,000000E+00	1,677039E+07	1,912102E+08	5,474893E+08	9,901031E+08	1,329608E+09	1,329623E+09	9,901380E+08	5,475169E+08
-2571	1,912184E+08	1,677030E+07	0,000000E+00	0,000000E+00	1,677598E+07	1,912389E+08	5,475249E+08	9,901265E+08	1,329592E+09	1,329565E+09	9,900562E+08	5,474648E+08
-2570	1,912096E+08	1,677165E+07	0,000000E+00	0,000000E+00	1,677113E+07	1,912092E+08	5,474692E+08	9,900459E+08	1,329522E+09	1,329536E+09	9,900830E+08	5,475126E+08
-2569	1,912504E+08	1,678429E+07	0,000000E+00	0,000000E+00	1,678148E+07	1,912298E+08	5,474794E+08	9,900332E+08	1,329488E+09	1,329495E+09	9,900443E+08	5,474814E+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°
-2568	1,912257E+08	1,677973E+07	0,000000E+00	0,000000E+00	1,678366E+07	1,912429E+08	5,474846E+08	9,900158E+08	1,329438E+09	1,329410E+09	9,899593E+08	5,474493E+08
-2567	1,912355E+08	1,678699E+07	0,000000E+00	0,000000E+00	1,678338E+07	1,912196E+08	5,474296E+08	9,899292E+08	1,329369E+09	1,329396E+09	9,899950E+08	5,474924E+08
-2566	1,912605E+08	1,679251E+07	0,000000E+00	0,000000E+00	1,679395E+07	1,912594E+08	5,474800E+08	9,899647E+08	1,329361E+09	1,329358E+09	9,899392E+08	5,474372E+08
-2565	1,912257E+08	1,678623E+07	0,000000E+00	0,000000E+00	1,678985E+07	1,912487E+08	5,474713E+08	9,899627E+08	1,329349E+09	1,329323E+09	9,899221E+08	5,474538E+08
-2564	1,912514E+08	1,679341E+07	0,000000E+00	0,000000E+00	1,678916E+07	1,912328E+08	5,474423E+08	9,899325E+08	1,329353E+09	1,329366E+09	9,899704E+08	5,474801E+08
-2563	1,912521E+08	1,679130E+07	0,000000E+00	0,000000E+00	1,679423E+07	1,912620E+08	5,474886E+08	9,899893E+08	1,329391E+09	1,329371E+09	9,899302E+08	5,474293E+08
-2562	1,912269E+08	1,678599E+07	0,000000E+00	0,000000E+00	1,678448E+07	1,912288E+08	5,474496E+08	9,899595E+08	1,329393E+09	1,329407E+09	9,899955E+08	5,474833E+08
-2561	1,912562E+08	1,679155E+07	0,000000E+00	0,000000E+00	1,678630E+07	1,912328E+08	5,474586E+08	9,899813E+08	1,329430E+09	1,329454E+09	9,900282E+08	5,474847E+08
-2560	1,912313E+08	1,678242E+07	0,000000E+00	0,000000E+00	1,678624E+07	1,912503E+08	5,474968E+08	9,900346E+08	1,329463E+09	1,329445E+09	9,899870E+08	5,474523E+08
-2559	1,912226E+08	1,677889E+07	0,000000E+00	0,000000E+00	1,677563E+07	1,912130E+08	5,474556E+08	9,900077E+08	1,329476E+09	1,329500E+09	9,900655E+08	5,475100E+08
-2558	1,912484E+08	1,678301E+07	0,000000E+00	0,000000E+00	1,678133E+07	1,912366E+08	5,474996E+08	9,900699E+08	1,329527E+09	1,329529E+09	9,900624E+08	5,474761E+08
-2557	1,912113E+08	1,677262E+07	0,000000E+00	0,000000E+00	1,677514E+07	1,912287E+08	5,475046E+08	9,901008E+08	1,329561E+09	1,329528E+09	9,900431E+08	5,474745E+08
-2556	1,912231E+08	1,677584E+07	0,000000E+00	0,000000E+00	1,677130E+07	1,912042E+08	5,474623E+08	9,900538E+08	1,329557E+09	1,329579E+09	9,901062E+08	5,475124E+08
-2555	1,912349E+08	1,677744E+07	0,000000E+00	0,000000E+00	1,677963E+07	1,912394E+08	5,475093E+08	9,900920E+08	1,329561E+09	1,329558E+09	9,900614E+08	5,474616E+08
-2554	1,912047E+08	1,677071E+07	0,000000E+00	0,000000E+00	1,677237E+07	1,912200E+08	5,474873E+08	9,900651E+08	1,329528E+09	1,329527E+09	9,900677E+08	5,474955E+08
-2553	1,912377E+08	1,678131E+07	0,000000E+00	0,000000E+00	1,677735E+07	1,912169E+08	5,474688E+08	9,900342E+08	1,329503E+09	1,329518E+09	9,900739E+08	5,475059E+08
-2552	1,912345E+08	1,677957E+07	0,000000E+00	0,000000E+00	1,678391E+07	1,912478E+08	5,475016E+08	9,900479E+08	1,329474E+09	1,329443E+09	9,899765E+08	5,474449E+08
-2551	1,912226E+08	1,678115E+07	0,000000E+00	0,000000E+00	1,677997E+07	1,912196E+08	5,474464E+08	9,899676E+08	1,329405E+09	1,329413E+09	9,899958E+08	5,474877E+08
-2550	1,912617E+08	1,679316E+07	0,000000E+00	0,000000E+00	1,679069E+07	1,912419E+08	5,474564E+08	9,899484E+08	1,329364E+09	1,329377E+09	9,899681E+08	5,474580E+08
-2549	1,912343E+08	1,678811E+07	0,000000E+00	0,000000E+00	1,679345E+07	1,912590E+08	5,474746E+08	9,899535E+08	1,329329E+09	1,329296E+09	9,898852E+08	5,474273E+08
-2548	1,912416E+08	1,679375E+07	0,000000E+00	0,000000E+00	1,679185E+07	1,912346E+08	5,474239E+08	9,898771E+08	1,329275E+09	1,329294E+09	9,899255E+08	5,474716E+08
-2547	1,912674E+08	1,679914E+07	0,000000E+00	0,000000E+00	1,680087E+07	1,912680E+08	5,474649E+08	9,899076E+08	1,329271E+09	1,329264E+09	9,898769E+08	5,474217E+08
-2546	1,912361E+08	1,679356E+07	0,000000E+00	0,000000E+00	1,679642E+07	1,912565E+08	5,474564E+08	9,899064E+08	1,329266E+09	1,329243E+09	9,898695E+08	5,474408E+08
-2545	1,912627E+08	1,680091E+07	0,000000E+00	0,000000E+00	1,679497E+07	1,912361E+08	5,474191E+08	9,898712E+08	1,329274E+09	1,329295E+09	9,899252E+08	5,474699E+08
-2544	1,912631E+08	1,679875E+07	0,000000E+00	0,000000E+00	1,680096E+07	1,912694E+08	5,474652E+08	9,899160E+08	1,329290E+09	1,329279E+09	9,898775E+08	5,474170E+08
-2543	1,912348E+08	1,679248E+07	0,000000E+00	0,000000E+00	1,679131E+07	1,912388E+08	5,474341E+08	9,898954E+08	1,329294E+09	1,329309E+09	9,899334E+08	5,474694E+08
-2542	1,912642E+08	1,679720E+07	0,000000E+00	0,000000E+00	1,679261E+07	1,912413E+08	5,474441E+08	9,899206E+08	1,329333E+09	1,329358E+09	9,899699E+08	5,474711E+08
-2541	1,912397E+08	1,678841E+07	0,000000E+00	0,000000E+00	1,679245E+07	1,912588E+08	5,474893E+08	9,899971E+08	1,329391E+09	1,329358E+09	9,899266E+08	5,474358E+08
-2540	1,912292E+08	1,678434E+07	0,000000E+00	0,000000E+00	1,678113E+07	1,912203E+08	5,474458E+08	9,899690E+08	1,329413E+09	1,329426E+09	9,900074E+08	5,474895E+08
-2539	1,912541E+08	1,678896E+07	0,000000E+00	0,000000E+00	1,678673E+07	1,912407E+08	5,474787E+08	9,900124E+08	1,329450E+09	1,329454E+09	9,900111E+08	5,474605E+08
-2538	1,912193E+08	1,677923E+07	0,000000E+00	0,000000E+00	1,678167E+07	1,912382E+08	5,474896E+08	9,900393E+08	1,329474E+09	1,329451E+09	9,899960E+08	5,474617E+08
-2537	1,912315E+08	1,678266E+07	0,000000E+00	0,000000E+00	1,677799E+07	1,912128E+08	5,474467E+08	9,899923E+08	1,329465E+09	1,329493E+09	9,900565E+08	5,475031E+08
-2536	1,912454E+08	1,678471E+07	0,000000E+00	0,000000E+00	1,678726E+07	1,912508E+08	5,474944E+08	9,900242E+08	1,329451E+09	1,329446E+09	9,899946E+08	5,474479E+08
-2535	1,912157E+08	1,677857E+07	0,000000E+00	0,000000E+00	1,678039E+07	1,912309E+08	5,474719E+08	9,900008E+08	1,329424E+09	1,329411E+09	9,899862E+08	5,474756E+08
-2534	1,912500E+08	1,678963E+07	0,000000E+00	0,000000E+00	1,678544E+07	1,912253E+08	5,474453E+08	9,899580E+08	1,329393E+09	1,329407E+09	9,899988E+08	5,474851E+08
-2533	1,912462E+08	1,678857E+07	0,000000E+00	0,000000E+00	1,679284E+07	1,912581E+08	5,474817E+08	9,899795E+08	1,329368E+09	1,329333E+09	9,899005E+08	5,474215E+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°
-2532	1,912304E+08	1,678910E+07	0,000000E+00	0,000000E+00	1,678903E+07	1,912328E+08	5,474286E+08	9,898942E+08	1,329295E+09	1,329302E+09	9,899204E+08	5,474634E+08
-2531	1,912681E+08	1,680060E+07	0,000000E+00	0,000000E+00	1,679903E+07	1,912535E+08	5,474367E+08	9,898687E+08	1,329242E+09	1,329260E+09	9,898971E+08	5,474415E+08
-2530	1,912445E+08	1,679589E+07	0,000000E+00	0,000000E+00	1,680172E+07	1,912724E+08	5,474632E+08	9,898857E+08	1,329217E+09	1,329187E+09	9,898185E+08	5,474127E+08
-2529	1,912537E+08	1,680180E+07	0,000000E+00	0,000000E+00	1,679873E+07	1,912420E+08	5,474079E+08	9,898185E+08	1,329184E+09	1,329199E+09	9,898645E+08	5,474591E+08
-2528	1,912809E+08	1,680770E+07	0,000000E+00	0,000000E+00	1,680805E+07	1,912755E+08	5,474437E+08	9,898399E+08	1,329173E+09	1,329165E+09	9,898119E+08	5,474068E+08
-2527	1,912481E+08	1,680204E+07	0,000000E+00	0,000000E+00	1,680372E+07	1,912639E+08	5,474343E+08	9,898394E+08	1,329174E+09	1,329150E+09	9,898029E+08	5,474230E+08
-2526	1,912724E+08	1,680819E+07	0,000000E+00	0,000000E+00	1,680212E+07	1,912442E+08	5,473970E+08	9,897997E+08	1,329176E+09	1,329207E+09	9,898713E+08	5,474559E+08
-2525	1,912710E+08	1,680541E+07	0,000000E+00	0,000000E+00	1,680825E+07	1,912801E+08	5,474557E+08	9,898669E+08	1,329203E+09	1,329189E+09	9,898206E+08	5,474023E+08
-2524	1,912395E+08	1,679737E+07	0,000000E+00	0,000000E+00	1,679756E+07	1,912495E+08	5,474283E+08	9,898541E+08	1,329219E+09	1,329224E+09	9,898744E+08	5,474519E+08
-2523	1,912691E+08	1,680216E+07	0,000000E+00	0,000000E+00	1,679773E+07	1,912470E+08	5,474300E+08	9,898715E+08	1,329257E+09	1,329277E+09	9,899161E+08	5,474580E+08
-2522	1,912482E+08	1,679436E+07	0,000000E+00	0,000000E+00	1,679782E+07	1,912652E+08	5,474752E+08	9,899450E+08	1,329318E+09	1,329289E+09	9,898785E+08	5,474222E+08
-2521	1,912382E+08	1,679097E+07	0,000000E+00	0,000000E+00	1,678647E+07	1,912242E+08	5,474256E+08	9,899125E+08	1,329340E+09	1,329359E+09	9,899630E+08	5,474771E+08
-2520	1,912626E+08	1,679594E+07	0,000000E+00	0,000000E+00	1,679364E+07	1,912494E+08	5,474575E+08	9,899406E+08	1,329350E+09	1,329361E+09	9,899546E+08	5,474474E+08
-2519	1,912278E+08	1,678622E+07	0,000000E+00	0,000000E+00	1,678911E+07	1,912497E+08	5,474757E+08	9,899746E+08	1,329371E+09	1,329345E+09	9,899269E+08	5,474466E+08
-2518	1,912408E+08	1,678942E+07	0,000000E+00	0,000000E+00	1,678552E+07	1,912230E+08	5,474314E+08	9,899269E+08	1,329359E+09	1,329386E+09	9,899901E+08	5,474891E+08
-2517	1,912565E+08	1,679229E+07	0,000000E+00	0,000000E+00	1,679494E+07	1,912607E+08	5,474829E+08	9,899735E+08	1,329359E+09	1,329339E+09	9,899211E+08	5,474293E+08
-2516	1,912250E+08	1,678596E+07	0,000000E+00	0,000000E+00	1,678826E+07	1,912413E+08	5,474563E+08	9,899408E+08	1,329332E+09	1,329311E+09	9,899120E+08	5,474519E+08
-2515	1,912583E+08	1,679748E+07	0,000000E+00	0,000000E+00	1,679323E+07	1,912336E+08	5,474200E+08	9,898784E+08	1,329283E+09	1,329303E+09	9,899299E+08	5,474660E+08
-2514	1,912561E+08	1,679680E+07	0,000000E+00	0,000000E+00	1,680152E+07	1,912716E+08	5,474638E+08	9,899002E+08	1,329253E+09	1,329229E+09	9,898349E+08	5,474046E+08
-2513	1,912410E+08	1,679743E+07	0,000000E+00	0,000000E+00	1,679723E+07	1,912444E+08	5,474133E+08	9,898254E+08	1,329187E+09	1,329196E+09	9,898540E+08	5,474482E+08
-2512	1,912789E+08	1,680877E+07	0,000000E+00	0,000000E+00	1,680731E+07	1,912654E+08	5,474205E+08	9,897980E+08	1,329128E+09	1,329139E+09	9,898193E+08	5,474248E+08
-2511	1,912571E+08	1,680468E+07	0,000000E+00	0,000000E+00	1,680968E+07	1,912827E+08	5,474475E+08	9,898236E+08	1,329119E+09	1,329076E+09	9,897391E+08	5,473935E+08
-2510	1,912660E+08	1,681019E+07	0,000000E+00	0,000000E+00	1,680628E+07	1,912488E+08	5,473840E+08	9,897469E+08	1,329085E+09	1,329104E+09	9,898001E+08	5,474417E+08
-2509	1,912917E+08	1,681613E+07	0,000000E+00	0,000000E+00	1,681588E+07	1,912836E+08	5,474241E+08	9,897776E+08	1,329080E+09	1,329073E+09	9,897512E+08	5,473898E+08
-2508	1,912552E+08	1,680884E+07	0,000000E+00	0,000000E+00	1,681148E+07	1,912749E+08	5,474170E+08	9,897737E+08	1,329081E+09	1,329063E+09	9,897449E+08	5,474052E+08
-2507	1,912773E+08	1,681385E+07	0,000000E+00	0,000000E+00	1,680859E+07	1,912527E+08	5,473784E+08	9,897303E+08	1,329073E+09	1,329112E+09	9,898160E+08	5,474446E+08
-2506	1,912793E+08	1,681122E+07	0,000000E+00	0,000000E+00	1,681437E+07	1,912896E+08	5,474444E+08	9,898101E+08	1,329114E+09	1,329103E+09	9,897670E+08	5,473912E+08
-2505	1,912496E+08	1,680355E+07	0,000000E+00	0,000000E+00	1,680250E+07	1,912543E+08	5,474148E+08	9,898082E+08	1,329147E+09	1,329147E+09	9,898214E+08	5,474391E+08
-2504	1,912785E+08	1,680875E+07	0,000000E+00	0,000000E+00	1,680349E+07	1,912532E+08	5,474124E+08	9,898147E+08	1,329174E+09	1,329191E+09	9,898563E+08	5,474426E+08
-2503	1,912576E+08	1,680146E+07	0,000000E+00	0,000000E+00	1,680426E+07	1,912739E+08	5,474603E+08	9,898893E+08	1,329237E+09	1,329205E+09	9,898182E+08	5,474047E+08
-2502	1,912451E+08	1,679727E+07	0,000000E+00	0,000000E+00	1,679347E+07	1,912344E+08	5,474108E+08	9,898517E+08	1,329251E+09	1,329277E+09	9,899111E+08	5,474629E+08
-2501	1,912690E+08	1,680217E+07	0,000000E+00	0,000000E+00	1,680104E+07	1,912617E+08	5,474527E+08	9,898970E+08	1,329266E+09	1,329271E+09	9,898955E+08	5,474329E+08
-2500	1,912337E+08	1,679169E+07	0,000000E+00	0,000000E+00	1,679619E+07	1,912614E+08	5,474685E+08	9,899292E+08	1,329293E+09	1,329257E+09	9,898617E+08	5,474272E+08
-2499	1,912474E+08	1,679561E+07	0,000000E+00	0,000000E+00	1,679196E+07	1,912299E+08	5,474124E+08	9,898647E+08	1,329267E+09	1,329291E+09	9,899265E+08	5,474746E+08
-2498	1,912678E+08	1,679989E+07	0,000000E+00	0,000000E+00	1,680189E+07	1,912679E+08	5,474605E+08	9,899010E+08	1,329261E+09	1,329249E+09	9,898595E+08	5,474136E+08
-2497	1,912373E+08	1,679457E+07	0,000000E+00	0,000000E+00	1,679560E+07	1,912478E+08	5,474300E+08	9,898627E+08	1,329226E+09	1,329214E+09	9,898494E+08	5,474362E+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	1,912698E+08	1,680629E+07	0,000000E+00	0,000000E+00	1,680193E+07	1,912450E+08	5,473949E+08	9,897868E+08	1,329150E+09	1,329178E+09	9,898535E+08	5,474496E+08
-2495	1,912686E+08	1,680586E+07	0,000000E+00	0,000000E+00	1,681041E+07	1,912848E+08	5,474463E+08	9,898196E+08	1,329124E+09	1,329096E+09	9,897496E+08	5,473855E+08
-2494	1,912533E+08	1,680616E+07	0,000000E+00	0,000000E+00	1,680586E+07	1,912555E+08	5,473952E+08	9,897516E+08	1,329069E+09	1,329076E+09	9,897765E+08	5,474298E+08
-2493	1,912913E+08	1,681768E+07	0,000000E+00	0,000000E+00	1,681567E+07	1,912761E+08	5,474077E+08	9,897425E+08	1,329031E+09	1,329029E+09	9,897407E+08	5,474034E+08
-2492	1,912671E+08	1,681286E+07	0,000000E+00	0,000000E+00	1,681801E+07	1,912930E+08	5,474302E+08	9,897620E+08	1,329030E+09	1,328984E+09	9,896690E+08	5,473698E+08
-2491	1,912735E+08	1,681773E+07	0,000000E+00	0,000000E+00	1,681397E+07	1,912576E+08	5,473605E+08	9,896720E+08	1,328983E+09	1,329013E+09	9,897427E+08	5,474265E+08
-2490	1,913002E+08	1,682319E+07	0,000000E+00	0,000000E+00	1,682354E+07	1,912952E+08	5,474072E+08	9,897058E+08	1,328980E+09	1,328987E+09	9,896994E+08	5,473782E+08
-2489	1,912643E+08	1,681545E+07	0,000000E+00	0,000000E+00	1,681812E+07	1,912842E+08	5,474042E+08	9,897155E+08	1,328989E+09	1,328975E+09	9,896923E+08	5,473944E+08
-2488	1,912861E+08	1,681997E+07	0,000000E+00	0,000000E+00	1,681495E+07	1,912619E+08	5,473646E+08	9,896710E+08	1,328977E+09	1,329011E+09	9,897508E+08	5,474307E+08
-2487	1,912898E+08	1,681801E+07	0,000000E+00	0,000000E+00	1,682022E+07	1,912971E+08	5,474322E+08	9,897604E+08	1,329034E+09	1,329012E+09	9,897007E+08	5,473739E+08
-2486	1,912587E+08	1,681005E+07	0,000000E+00	0,000000E+00	1,680835E+07	1,912601E+08	5,473977E+08	9,897544E+08	1,329071E+09	1,329072E+09	9,897681E+08	5,474220E+08
-2485	1,912852E+08	1,681522E+07	0,000000E+00	0,000000E+00	1,681005E+07	1,912620E+08	5,474020E+08	9,897704E+08	1,329101E+09	1,329115E+09	9,898016E+08	5,474246E+08
-2484	1,912619E+08	1,680687E+07	0,000000E+00	0,000000E+00	1,681115E+07	1,912854E+08	5,474509E+08	9,898390E+08	1,329160E+09	1,329130E+09	9,897661E+08	5,473872E+08
-2483	1,912487E+08	1,680223E+07	0,000000E+00	0,000000E+00	1,679968E+07	1,912434E+08	5,473974E+08	9,897929E+08	1,329159E+09	1,329190E+09	9,898595E+08	5,474527E+08
-2482	1,912776E+08	1,680795E+07	0,000000E+00	0,000000E+00	1,680712E+07	1,912698E+08	5,474388E+08	9,898396E+08	1,329180E+09	1,329188E+09	9,898422E+08	5,474233E+08
-2481	1,912463E+08	1,679890E+07	0,000000E+00	0,000000E+00	1,680190E+07	1,912657E+08	5,474484E+08	9,898701E+08	1,329208E+09	1,329172E+09	9,898048E+08	5,474146E+08
-2480	1,912601E+08	1,680376E+07	0,000000E+00	0,000000E+00	1,679899E+07	1,912359E+08	5,473853E+08	9,897843E+08	1,329156E+09	1,329184E+09	9,898554E+08	5,474578E+08
-2479	1,912814E+08	1,680904E+07	0,000000E+00	0,000000E+00	1,680987E+07	1,912776E+08	5,474375E+08	9,898203E+08	1,329144E+09	1,329134E+09	9,897833E+08	5,473939E+08
-2478	1,912482E+08	1,680322E+07	0,000000E+00	0,000000E+00	1,680462E+07	1,912607E+08	5,474109E+08	9,897820E+08	1,329102E+09	1,329096E+09	9,897752E+08	5,474159E+08
-2477	1,912786E+08	1,681450E+07	0,000000E+00	0,000000E+00	1,681120E+07	1,912607E+08	5,473887E+08	9,897281E+08	1,329038E+09	1,329055E+09	9,897701E+08	5,474262E+08
-2476	1,912767E+08	1,681336E+07	0,000000E+00	0,000000E+00	1,681943E+07	1,912999E+08	5,474381E+08	9,897632E+08	1,329027E+09	1,328988E+09	9,896697E+08	5,473598E+08
-2475	1,912609E+08	1,681376E+07	0,000000E+00	0,000000E+00	1,681386E+07	1,912650E+08	5,473761E+08	9,896834E+08	1,328969E+09	1,328974E+09	9,897066E+08	5,474113E+08
-2474	1,913020E+08	1,682576E+07	0,000000E+00	0,000000E+00	1,682354E+07	1,912848E+08	5,473846E+08	9,896682E+08	1,328934E+09	1,328943E+09	9,896810E+08	5,473882E+08
-2473	1,912795E+08	1,682147E+07	0,000000E+00	0,000000E+00	1,682565E+07	1,913000E+08	5,474043E+08	9,896851E+08	1,328928E+09	1,328895E+09	9,896147E+08	5,473571E+08
-2472	1,912840E+08	1,682550E+07	0,000000E+00	0,000000E+00	1,682196E+07	1,912680E+08	5,473370E+08	9,895864E+08	1,328858E+09	1,328899E+09	9,896769E+08	5,474144E+08
-2471	1,913119E+08	1,683085E+07	0,000000E+00	0,000000E+00	1,683075E+07	1,913056E+08	5,473922E+08	9,896367E+08	1,328865E+09	1,328870E+09	9,896283E+08	5,473638E+08
-2470	1,912751E+08	1,682244E+07	0,000000E+00	0,000000E+00	1,682482E+07	1,912927E+08	5,473900E+08	9,896566E+08	1,328891E+09	1,328874E+09	9,896272E+08	5,473780E+08
-2469	1,912955E+08	1,682681E+07	0,000000E+00	0,000000E+00	1,682122E+07	1,912707E+08	5,473583E+08	9,896322E+08	1,328902E+09	1,328922E+09	9,896832E+08	5,474092E+08
-2468	1,912966E+08	1,682422E+07	0,000000E+00	0,000000E+00	1,682666E+07	1,913061E+08	5,474216E+08	9,897171E+08	1,328970E+09	1,328943E+09	9,896445E+08	5,473510E+08
-2467	1,912628E+08	1,681564E+07	0,000000E+00	0,000000E+00	1,681440E+07	1,912681E+08	5,473827E+08	9,897006E+08	1,328997E+09	1,329004E+09	9,897238E+08	5,474085E+08
-2466	1,912905E+08	1,682053E+07	0,000000E+00	0,000000E+00	1,681632E+07	1,912719E+08	5,473905E+08	9,897175E+08	1,329027E+09	1,329050E+09	9,897614E+08	5,474158E+08
-2465	1,912702E+08	1,681260E+07	0,000000E+00	0,000000E+00	1,681658E+07	1,912918E+08	5,474384E+08	9,897906E+08	1,329084E+09	1,329058E+09	9,897229E+08	5,473793E+08
-2464	1,912584E+08	1,680831E+07	0,000000E+00	0,000000E+00	1,680564E+07	1,912500E+08	5,473793E+08	9,897301E+08	1,329063E+09	1,329093E+09	9,897991E+08	5,474419E+08
-2463	1,912909E+08	1,681561E+07	0,000000E+00	0,000000E+00	1,681311E+07	1,912746E+08	5,474169E+08	9,897718E+08	1,329081E+09	1,329085E+09	9,897743E+08	5,474074E+08
-2462	1,912587E+08	1,680708E+07	0,000000E+00	0,000000E+00	1,680911E+07	1,912718E+08	5,474221E+08	9,897918E+08	1,329100E+09	1,329072E+09	9,897399E+08	5,473959E+08
-2461	1,912702E+08	1,681221E+07	0,000000E+00	0,000000E+00	1,680764E+07	1,912484E+08	5,473702E+08	9,897154E+08	1,329044E+09	1,329070E+09	9,897780E+08	5,474334E+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	1,912884E+08	1,681645E+07	0,000000E+00	0,000000E+00	1,681910E+07	1,912934E+08	5,474257E+08	9,897505E+08	1,329031E+09	1,329020E+09	9,897052E+08	5,473683E+08
-2459	1,912542E+08	1,681030E+07	0,000000E+00	0,000000E+00	1,681327E+07	1,912745E+08	5,473986E+08	9,897131E+08	1,328986E+09	1,328978E+09	9,897001E+08	5,473970E+08
-2458	1,912879E+08	1,682184E+07	0,000000E+00	0,000000E+00	1,681932E+07	1,912724E+08	5,473746E+08	9,896650E+08	1,328939E+09	1,328953E+09	9,896996E+08	5,474086E+08
-2457	1,912895E+08	1,682197E+07	0,000000E+00	0,000000E+00	1,682683E+07	1,913070E+08	5,474180E+08	9,896987E+08	1,328933E+09	1,328895E+09	9,896066E+08	5,473441E+08
-2456	1,912738E+08	1,682273E+07	0,000000E+00	0,000000E+00	1,682211E+07	1,912732E+08	5,473488E+08	9,895996E+08	1,328853E+09	1,328867E+09	9,896379E+08	5,473958E+08
-2455	1,913160E+08	1,683504E+07	0,000000E+00	0,000000E+00	1,683167E+07	1,912944E+08	5,473608E+08	9,895863E+08	1,328817E+09	1,328831E+09	9,896126E+08	5,473726E+08
-2454	1,912913E+08	1,682989E+07	0,000000E+00	0,000000E+00	1,683416E+07	1,913114E+08	5,473850E+08	9,896078E+08	1,328811E+09	1,328786E+09	9,895507E+08	5,473422E+08
-2453	1,912937E+08	1,683290E+07	0,000000E+00	0,000000E+00	1,682992E+07	1,912817E+08	5,473322E+08	9,895349E+08	1,328757E+09	1,328785E+09	9,896003E+08	5,473929E+08
-2452	1,913190E+08	1,683715E+07	0,000000E+00	0,000000E+00	1,683793E+07	1,913172E+08	5,473852E+08	9,895911E+08	1,328784E+09	1,328777E+09	9,895586E+08	5,473399E+08
-2451	1,912808E+08	1,682845E+07	0,000000E+00	0,000000E+00	1,683089E+07	1,912998E+08	5,473760E+08	9,896058E+08	1,328815E+09	1,328794E+09	9,895706E+08	5,473599E+08
-2450	1,913017E+08	1,683268E+07	0,000000E+00	0,000000E+00	1,682717E+07	1,912775E+08	5,473414E+08	9,895802E+08	1,328837E+09	1,328863E+09	9,896389E+08	5,473949E+08
-2449	1,913048E+08	1,683074E+07	0,000000E+00	0,000000E+00	1,683242E+07	1,913119E+08	5,474033E+08	9,896614E+08	1,328897E+09	1,328882E+09	9,896089E+08	5,473426E+08
-2448	1,912705E+08	1,682153E+07	0,000000E+00	0,000000E+00	1,682054E+07	1,912755E+08	5,473631E+08	9,896318E+08	1,328898E+09	1,328916E+09	9,896744E+08	5,474008E+08
-2447	1,913013E+08	1,682702E+07	0,000000E+00	0,000000E+00	1,682194E+07	1,912784E+08	5,473751E+08	9,896575E+08	1,328929E+09	1,328952E+09	9,897044E+08	5,474064E+08
-2446	1,912819E+08	1,681937E+07	0,000000E+00	0,000000E+00	1,682253E+07	1,912969E+08	5,474195E+08	9,897298E+08	1,328990E+09	1,328962E+09	9,896636E+08	5,473658E+08
-2445	1,912690E+08	1,681552E+07	0,000000E+00	0,000000E+00	1,681239E+07	1,912589E+08	5,473683E+08	9,896782E+08	1,328972E+09	1,328991E+09	9,897255E+08	5,474192E+08
-2444	1,912989E+08	1,682269E+07	0,000000E+00	0,000000E+00	1,682087E+07	1,912856E+08	5,474019E+08	9,897106E+08	1,328989E+09	1,328992E+09	9,897056E+08	5,473812E+08
-2443	1,912640E+08	1,681387E+07	0,000000E+00	0,000000E+00	1,681723E+07	1,912843E+08	5,474066E+08	9,897222E+08	1,328993E+09	1,328970E+09	9,896749E+08	5,473758E+08
-2442	1,912761E+08	1,681883E+07	0,000000E+00	0,000000E+00	1,681614E+07	1,912630E+08	5,473592E+08	9,896529E+08	1,328946E+09	1,328974E+09	9,897127E+08	5,474151E+08
-2441	1,912978E+08	1,682382E+07	0,000000E+00	0,000000E+00	1,682670E+07	1,913043E+08	5,474139E+08	9,896932E+08	1,328936E+09	1,328920E+09	9,896408E+08	5,473531E+08
-2440	1,912654E+08	1,681820E+07	0,000000E+00	0,000000E+00	1,682108E+07	1,912835E+08	5,473787E+08	9,896425E+08	1,328877E+09	1,328864E+09	9,896254E+08	5,473810E+08
-2439	1,913026E+08	1,683106E+07	0,000000E+00	0,000000E+00	1,682673E+07	1,912788E+08	5,473507E+08	9,895901E+08	1,328829E+09	1,328842E+09	9,896274E+08	5,473918E+08
-2438	1,913039E+08	1,683166E+07	0,000000E+00	0,000000E+00	1,683523E+07	1,913137E+08	5,473882E+08	9,896126E+08	1,328816E+09	1,328788E+09	9,895417E+08	5,473280E+08
-2437	1,912864E+08	1,683214E+07	0,000000E+00	0,000000E+00	1,683147E+07	1,912867E+08	5,473317E+08	9,895216E+08	1,328730E+09	1,328746E+09	9,895614E+08	5,473751E+08
-2436	1,913251E+08	1,684293E+07	0,000000E+00	0,000000E+00	1,684078E+07	1,913089E+08	5,473458E+08	9,895115E+08	1,328699E+09	1,328716E+09	9,895372E+08	5,473497E+08
-2435	1,912986E+08	1,683697E+07	0,000000E+00	0,000000E+00	1,684216E+07	1,913232E+08	5,473709E+08	9,895405E+08	1,328699E+09	1,328672E+09	9,894800E+08	5,473250E+08
-2434	1,913026E+08	1,683959E+07	0,000000E+00	0,000000E+00	1,683687E+07	1,912912E+08	5,473185E+08	9,894816E+08	1,328676E+09	1,328696E+09	9,895354E+08	5,473747E+08
-2433	1,913293E+08	1,684444E+07	0,000000E+00	0,000000E+00	1,684369E+07	1,913220E+08	5,473680E+08	9,895405E+08	1,328713E+09	1,328703E+09	9,895068E+08	5,473256E+08
-2432	1,912903E+08	1,683553E+07	0,000000E+00	0,000000E+00	1,683717E+07	1,913059E+08	5,473548E+08	9,895423E+08	1,328728E+09	1,328713E+09	9,895191E+08	5,473474E+08
-2431	1,913116E+08	1,683965E+07	0,000000E+00	0,000000E+00	1,683328E+07	1,912851E+08	5,473251E+08	9,895197E+08	1,328747E+09	1,328778E+09	9,895905E+08	5,473835E+08
-2430	1,913128E+08	1,683715E+07	0,000000E+00	0,000000E+00	1,683897E+07	1,913203E+08	5,473889E+08	9,896027E+08	1,328807E+09	1,328799E+09	9,895636E+08	5,473338E+08
-2429	1,912786E+08	1,682742E+07	0,000000E+00	0,000000E+00	1,682716E+07	1,912873E+08	5,473601E+08	9,895898E+08	1,328814E+09	1,328821E+09	9,896104E+08	5,473832E+08
-2428	1,913077E+08	1,683247E+07	0,000000E+00	0,000000E+00	1,682828E+07	1,912873E+08	5,473644E+08	9,896109E+08	1,328853E+09	1,328866E+09	9,896406E+08	5,473844E+08
-2427	1,912879E+08	1,682523E+07	0,000000E+00	0,000000E+00	1,682862E+07	1,913031E+08	5,474013E+08	9,896716E+08	1,328905E+09	1,328876E+09	9,896047E+08	5,473483E+08
-2426	1,912759E+08	1,682180E+07	0,000000E+00	0,000000E+00	1,681932E+07	1,912672E+08	5,473486E+08	9,896175E+08	1,328890E+09	1,328910E+09	9,896677E+08	5,474009E+08
-2425	1,913071E+08	1,682982E+07	0,000000E+00	0,000000E+00	1,682792E+07	1,912946E+08	5,473840E+08	9,896454E+08	1,328893E+09	1,328902E+09	9,896511E+08	5,473677E+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	1,912728E+08	1,682094E+07	0,000000E+00	0,000000E+00	1,682496E+07	1,912954E+08	5,473889E+08	9,896467E+08	1,328875E+09	1,328856E+09	9,896068E+08	5,473621E+08
-2423	1,912883E+08	1,682683E+07	0,000000E+00	0,000000E+00	1,682345E+07	1,912725E+08	5,473439E+08	9,895858E+08	1,328833E+09	1,328855E+09	9,896397E+08	5,473994E+08
-2422	1,913108E+08	1,683260E+07	0,000000E+00	0,000000E+00	1,683437E+07	1,913116E+08	5,473920E+08	9,896220E+08	1,328829E+09	1,328811E+09	9,895712E+08	5,473377E+08
-2421	1,912794E+08	1,682771E+07	0,000000E+00	0,000000E+00	1,682978E+07	1,912946E+08	5,473623E+08	9,895748E+08	1,328771E+09	1,328750E+09	9,895433E+08	5,473568E+08
-2420	1,913137E+08	1,684007E+07	0,000000E+00	0,000000E+00	1,683603E+07	1,912909E+08	5,473294E+08	9,895136E+08	1,328720E+09	1,328735E+09	9,895530E+08	5,473667E+08
-2419	1,913123E+08	1,684005E+07	0,000000E+00	0,000000E+00	1,684451E+07	1,913269E+08	5,473680E+08	9,895315E+08	1,328695E+09	1,328674E+09	9,894727E+08	5,473103E+08
-2418	1,912945E+08	1,683962E+07	0,000000E+00	0,000000E+00	1,684053E+07	1,913012E+08	5,473177E+08	9,894546E+08	1,328625E+09	1,328639E+09	9,894914E+08	5,473576E+08
-2417	1,913350E+08	1,685036E+07	0,000000E+00	0,000000E+00	1,684821E+07	1,913193E+08	5,473328E+08	9,894528E+08	1,328602E+09	1,328615E+09	9,894726E+08	5,473348E+08
-2416	1,913089E+08	1,684429E+07	0,000000E+00	0,000000E+00	1,684908E+07	1,913308E+08	5,473512E+08	9,894728E+08	1,328597E+09	1,328568E+09	9,894107E+08	5,473087E+08
-2415	1,913146E+08	1,684748E+07	0,000000E+00	0,000000E+00	1,684294E+07	1,912964E+08	5,472983E+08	9,894190E+08	1,328584E+09	1,328604E+09	9,894747E+08	5,473578E+08
-2414	1,913393E+08	1,685235E+07	0,000000E+00	0,000000E+00	1,685053E+07	1,913279E+08	5,473446E+08	9,894734E+08	1,328623E+09	1,328621E+09	9,894574E+08	5,473135E+08
-2413	1,912993E+08	1,684272E+07	0,000000E+00	0,000000E+00	1,684462E+07	1,913181E+08	5,473449E+08	9,894853E+08	1,328636E+09	1,328620E+09	9,894587E+08	5,473305E+08
-2412	1,913171E+08	1,684528E+07	0,000000E+00	0,000000E+00	1,684034E+07	1,912971E+08	5,473165E+08	9,894676E+08	1,328660E+09	1,328691E+09	9,895328E+08	5,473662E+08
-2411	1,913180E+08	1,684231E+07	0,000000E+00	0,000000E+00	1,684498E+07	1,913283E+08	5,473769E+08	9,895510E+08	1,328720E+09	1,328708E+09	9,895081E+08	5,473216E+08
-2410	1,912858E+08	1,683273E+07	0,000000E+00	0,000000E+00	1,683288E+07	1,912941E+08	5,473457E+08	9,895442E+08	1,328748E+09	1,328744E+09	9,895536E+08	5,473681E+08
-2409	1,913170E+08	1,683897E+07	0,000000E+00	0,000000E+00	1,683367E+07	1,912914E+08	5,473450E+08	9,895569E+08	1,328780E+09	1,328794E+09	9,895907E+08	5,473712E+08
-2408	1,912971E+08	1,683206E+07	0,000000E+00	0,000000E+00	1,683501E+07	1,913095E+08	5,473779E+08	9,896002E+08	1,328807E+09	1,328784E+09	9,895473E+08	5,473349E+08
-2407	1,912865E+08	1,682933E+07	0,000000E+00	0,000000E+00	1,682618E+07	1,912767E+08	5,473326E+08	9,895512E+08	1,328786E+09	1,328809E+09	9,896071E+08	5,473857E+08
-2406	1,913161E+08	1,683744E+07	0,000000E+00	0,000000E+00	1,683559E+07	1,913049E+08	5,473689E+08	9,895807E+08	1,328790E+09	1,328798E+09	9,895877E+08	5,473546E+08
-2405	1,912837E+08	1,682880E+07	0,000000E+00	0,000000E+00	1,683323E+07	1,913097E+08	5,473831E+08	9,895923E+08	1,328774E+09	1,328740E+09	9,895257E+08	5,473395E+08
-2404	1,912975E+08	1,683460E+07	0,000000E+00	0,000000E+00	1,683181E+07	1,912839E+08	5,473293E+08	9,895240E+08	1,328737E+09	1,328750E+09	9,895624E+08	5,473740E+08
-2403	1,913194E+08	1,684072E+07	0,000000E+00	0,000000E+00	1,684266E+07	1,913203E+08	5,473683E+08	9,895458E+08	1,328720E+09	1,328706E+09	9,895023E+08	5,473196E+08
-2402	1,912896E+08	1,683624E+07	0,000000E+00	0,000000E+00	1,683910E+07	1,913058E+08	5,473370E+08	9,894967E+08	1,328667E+09	1,328650E+09	9,894758E+08	5,473389E+08
-2401	1,913247E+08	1,684869E+07	0,000000E+00	0,000000E+00	1,684471E+07	1,913020E+08	5,473062E+08	9,894307E+08	1,328602E+09	1,328627E+09	9,894888E+08	5,473532E+08
-2400	1,913234E+08	1,684818E+07	0,000000E+00	0,000000E+00	1,685294E+07	1,913378E+08	5,473461E+08	9,894456E+08	1,328562E+09	1,328545E+09	9,893967E+08	5,472969E+08
-2399	1,913084E+08	1,684816E+07	0,000000E+00	0,000000E+00	1,684795E+07	1,913105E+08	5,473010E+08	9,893846E+08	1,328506E+09	1,328513E+09	9,894130E+08	5,473391E+08
-2398	1,913468E+08	1,685889E+07	0,000000E+00	0,000000E+00	1,685537E+07	1,913261E+08	5,473124E+08	9,893864E+08	1,328502E+09	1,328508E+09	9,894021E+08	5,473182E+08
-2397	1,913211E+08	1,685288E+07	0,000000E+00	0,000000E+00	1,685692E+07	1,913424E+08	5,473397E+08	9,894153E+08	1,328506E+09	1,328468E+09	9,893373E+08	5,472848E+08
-2396	1,913219E+08	1,685472E+07	0,000000E+00	0,000000E+00	1,685079E+07	1,913082E+08	5,472847E+08	9,893614E+08	1,328501E+09	1,328522E+09	9,894144E+08	5,473348E+08
-2395	1,913434E+08	1,685848E+07	0,000000E+00	0,000000E+00	1,685790E+07	1,913393E+08	5,473323E+08	9,894157E+08	1,328535E+09	1,328538E+09	9,894078E+08	5,473020E+08
-2394	1,913051E+08	1,684807E+07	0,000000E+00	0,000000E+00	1,685145E+07	1,913287E+08	5,473350E+08	9,894417E+08	1,328569E+09	1,328547E+09	9,894079E+08	5,473186E+08
-2393	1,913243E+08	1,685058E+07	0,000000E+00	0,000000E+00	1,684558E+07	1,913033E+08	5,473045E+08	9,894242E+08	1,328592E+09	1,328618E+09	9,894857E+08	5,473567E+08
-2392	1,913266E+08	1,684799E+07	0,000000E+00	0,000000E+00	1,684985E+07	1,913309E+08	5,473551E+08	9,894908E+08	1,328636E+09	1,328625E+09	9,894536E+08	5,473106E+08
-2391	1,912971E+08	1,683957E+07	0,000000E+00	0,000000E+00	1,683793E+07	1,912974E+08	5,473243E+08	9,894820E+08	1,328658E+09	1,328659E+09	9,894987E+08	5,473531E+08
-2390	1,913261E+08	1,684643E+07	0,000000E+00	0,000000E+00	1,684031E+07	1,912977E+08	5,473214E+08	9,894857E+08	1,328684E+09	1,328706E+09	9,895376E+08	5,473596E+08
-2389	1,913070E+08	1,683950E+07	0,000000E+00	0,000000E+00	1,684305E+07	1,913242E+08	5,473684E+08	9,895351E+08	1,328701E+09	1,328677E+09	9,894759E+08	5,473147E+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°
-2388	1,912934E+08	1,683606E+07	0,000000E+00	0,000000E+00	1,683445E+07	1,912911E+08	5,473243E+08	9,894925E+08	1,328687E+09	1,328704E+09	9,895337E+08	5,473627E+08
-2387	1,913224E+08	1,684411E+07	0,000000E+00	0,000000E+00	1,684328E+07	1,913157E+08	5,473559E+08	9,895208E+08	1,328690E+09	1,328690E+09	9,895167E+08	5,473378E+08
-2386	1,912933E+08	1,683619E+07	0,000000E+00	0,000000E+00	1,684105E+07	1,913188E+08	5,473649E+08	9,895355E+08	1,328692E+09	1,328647E+09	9,894552E+08	5,473203E+08
-2385	1,913086E+08	1,684299E+07	0,000000E+00	0,000000E+00	1,683952E+07	1,912918E+08	5,473067E+08	9,894543E+08	1,328641E+09	1,328658E+09	9,895014E+08	5,473590E+08
-2384	1,913307E+08	1,684921E+07	0,000000E+00	0,000000E+00	1,685087E+07	1,913288E+08	5,473397E+08	9,894553E+08	1,328596E+09	1,328593E+09	9,894341E+08	5,473057E+08
-2383	1,913029E+08	1,684534E+07	0,000000E+00	0,000000E+00	1,684770E+07	1,913176E+08	5,473166E+08	9,894128E+08	1,328536E+09	1,328527E+09	9,894036E+08	5,473229E+08
-2382	1,913365E+08	1,685757E+07	0,000000E+00	0,000000E+00	1,685345E+07	1,913138E+08	5,472874E+08	9,893529E+08	1,328479E+09	1,328504E+09	9,894134E+08	5,473384E+08
-2381	1,913365E+08	1,685691E+07	0,000000E+00	0,000000E+00	1,686169E+07	1,913524E+08	5,473361E+08	9,893805E+08	1,328448E+09	1,328417E+09	9,893063E+08	5,472714E+08
-2380	1,913184E+08	1,685637E+07	0,000000E+00	0,000000E+00	1,685617E+07	1,913217E+08	5,472867E+08	9,893236E+08	1,328410E+09	1,328409E+09	9,893327E+08	5,473108E+08
-2379	1,913535E+08	1,686650E+07	0,000000E+00	0,000000E+00	1,686301E+07	1,913345E+08	5,472923E+08	9,893204E+08	1,328407E+09	1,328415E+09	9,893375E+08	5,472994E+08
-2378	1,913291E+08	1,686031E+07	0,000000E+00	0,000000E+00	1,686495E+07	1,913525E+08	5,473206E+08	9,893557E+08	1,328427E+09	1,328391E+09	9,892832E+08	5,472694E+08
-2377	1,913296E+08	1,686138E+07	0,000000E+00	0,000000E+00	1,685773E+07	1,913180E+08	5,472696E+08	9,893008E+08	1,328415E+09	1,328445E+09	9,893693E+08	5,473262E+08
-2376	1,913513E+08	1,686439E+07	0,000000E+00	0,000000E+00	1,686387E+07	1,913459E+08	5,473139E+08	9,893500E+08	1,328436E+09	1,328445E+09	9,893547E+08	5,472956E+08
-2375	1,913174E+08	1,685465E+07	0,000000E+00	0,000000E+00	1,685656E+07	1,913333E+08	5,473182E+08	9,893846E+08	1,328478E+09	1,328456E+09	9,893526E+08	5,473073E+08
-2374	1,913352E+08	1,685755E+07	0,000000E+00	0,000000E+00	1,685095E+07	1,913066E+08	5,472825E+08	9,893636E+08	1,328508E+09	1,328535E+09	9,894305E+08	5,473452E+08
-2373	1,913380E+08	1,685533E+07	0,000000E+00	0,000000E+00	1,685648E+07	1,913405E+08	5,473411E+08	9,894315E+08	1,328547E+09	1,328533E+09	9,893869E+08	5,472893E+08
-2372	1,913041E+08	1,684621E+07	0,000000E+00	0,000000E+00	1,684543E+07	1,913099E+08	5,473133E+08	9,894251E+08	1,328571E+09	1,328572E+09	9,894351E+08	5,473285E+08
-2371	1,913288E+08	1,685214E+07	0,000000E+00	0,000000E+00	1,684800E+07	1,913112E+08	5,473135E+08	9,894302E+08	1,328590E+09	1,328612E+09	9,894774E+08	5,473439E+08
-2370	1,913130E+08	1,684531E+07	0,000000E+00	0,000000E+00	1,685074E+07	1,913375E+08	5,473624E+08	9,894930E+08	1,328628E+09	1,328591E+09	9,894140E+08	5,472980E+08
-2369	1,913009E+08	1,684230E+07	0,000000E+00	0,000000E+00	1,684109E+07	1,913002E+08	5,473125E+08	9,894430E+08	1,328609E+09	1,328620E+09	9,894750E+08	5,473481E+08
-2368	1,913317E+08	1,685103E+07	0,000000E+00	0,000000E+00	1,684956E+07	1,913199E+08	5,473309E+08	9,894491E+08	1,328591E+09	1,328594E+09	9,894530E+08	5,473253E+08
-2367	1,913075E+08	1,684491E+07	0,000000E+00	0,000000E+00	1,684811E+07	1,913240E+08	5,473372E+08	9,894548E+08	1,328579E+09	1,328545E+09	9,893915E+08	5,473044E+08
-2366	1,913210E+08	1,685236E+07	0,000000E+00	0,000000E+00	1,684805E+07	1,913004E+08	5,472772E+08	9,893632E+08	1,328516E+09	1,328545E+09	9,894353E+08	5,473469E+08
-2365	1,913445E+08	1,685845E+07	0,000000E+00	0,000000E+00	1,686039E+07	1,913447E+08	5,473234E+08	9,893694E+08	1,328459E+09	1,328458E+09	9,893478E+08	5,472840E+08
-2364	1,913140E+08	1,685396E+07	0,000000E+00	0,000000E+00	1,685722E+07	1,913329E+08	5,473038E+08	9,893386E+08	1,328411E+09	1,328396E+09	9,893133E+08	5,472957E+08
-2363	1,913451E+08	1,686555E+07	0,000000E+00	0,000000E+00	1,686199E+07	1,913257E+08	5,472722E+08	9,892843E+08	1,328365E+09	1,328380E+09	9,893287E+08	5,473161E+08
-2362	1,913472E+08	1,686523E+07	0,000000E+00	0,000000E+00	1,687005E+07	1,913625E+08	5,473185E+08	9,893229E+08	1,328364E+09	1,328321E+09	9,892317E+08	5,472484E+08
-2361	1,913281E+08	1,686457E+07	0,000000E+00	0,000000E+00	1,686388E+07	1,913310E+08	5,472683E+08	9,892619E+08	1,328326E+09	1,328327E+09	9,892758E+08	5,472936E+08
-2360	1,913614E+08	1,687378E+07	0,000000E+00	0,000000E+00	1,687028E+07	1,913429E+08	5,472704E+08	9,892476E+08	1,328306E+09	1,328325E+09	9,892837E+08	5,472888E+08
-2359	1,913402E+08	1,686781E+07	0,000000E+00	0,000000E+00	1,687194E+07	1,913620E+08	5,473058E+08	9,892914E+08	1,328326E+09	1,328301E+09	9,892327E+08	5,472588E+08
-2358	1,913391E+08	1,686825E+07	0,000000E+00	0,000000E+00	1,686438E+07	1,913264E+08	5,472544E+08	9,892416E+08	1,328322E+09	1,328355E+09	9,893166E+08	5,473183E+08
-2357	1,913627E+08	1,687111E+07	0,000000E+00	0,000000E+00	1,687031E+07	1,913559E+08	5,473028E+08	9,892942E+08	1,328344E+09	1,328347E+09	9,892859E+08	5,472764E+08
-2356	1,913259E+08	1,686108E+07	0,000000E+00	0,000000E+00	1,686291E+07	1,913411E+08	5,473035E+08	9,893300E+08	1,328396E+09	1,328371E+09	9,892872E+08	5,472833E+08
-2355	1,913403E+08	1,686350E+07	0,000000E+00	0,000000E+00	1,685749E+07	1,913143E+08	5,472650E+08	9,893037E+08	1,328421E+09	1,328450E+09	9,893730E+08	5,473279E+08
-2354	1,913443E+08	1,686142E+07	0,000000E+00	0,000000E+00	1,686365E+07	1,913507E+08	5,473266E+08	9,893793E+08	1,328472E+09	1,328456E+09	9,893329E+08	5,472731E+08
-2353	1,913100E+08	1,685196E+07	0,000000E+00	0,000000E+00	1,685206E+07	1,913214E+08	5,473049E+08	9,893742E+08	1,328488E+09	1,328492E+09	9,893853E+08	5,473163E+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	1,913350E+08	1,685760E+07	0,000000E+00	0,000000E+00	1,685391E+07	1,913183E+08	5,472988E+08	9,893709E+08	1,328494E+09	1,328516E+09	9,894181E+08	5,473330E+08
-2351	1,913253E+08	1,685243E+07	0,000000E+00	0,000000E+00	1,685637E+07	1,913426E+08	5,473451E+08	9,894331E+08	1,328532E+09	1,328497E+09	9,893544E+08	5,472841E+08
-2350	1,913133E+08	1,685062E+07	0,000000E+00	0,000000E+00	1,684778E+07	1,913049E+08	5,472872E+08	9,893723E+08	1,328512E+09	1,328527E+09	9,894140E+08	5,473360E+08
-2349	1,913462E+08	1,686001E+07	0,000000E+00	0,000000E+00	1,685763E+07	1,913301E+08	5,473081E+08	9,893682E+08	1,328476E+09	1,328483E+09	9,893773E+08	5,473039E+08
-2348	1,913192E+08	1,685387E+07	0,000000E+00	0,000000E+00	1,685748E+07	1,913377E+08	5,473180E+08	9,893738E+08	1,328459E+09	1,328429E+09	9,893137E+08	5,472799E+08
-2347	1,913292E+08	1,686048E+07	0,000000E+00	0,000000E+00	1,685763E+07	1,913154E+08	5,472621E+08	9,892857E+08	1,328389E+09	1,328418E+09	9,893553E+08	5,473275E+08
-2346	1,913546E+08	1,686648E+07	0,000000E+00	0,000000E+00	1,686966E+07	1,913589E+08	5,473114E+08	9,893096E+08	1,328356E+09	1,328341E+09	9,892658E+08	5,472611E+08
-2345	1,913239E+08	1,686203E+07	0,000000E+00	0,000000E+00	1,686547E+07	1,913448E+08	5,472908E+08	9,892781E+08	1,328313E+09	1,328291E+09	9,892392E+08	5,472737E+08
-2344	1,913537E+08	1,687329E+07	0,000000E+00	0,000000E+00	1,686928E+07	1,913324E+08	5,472487E+08	9,892101E+08	1,328259E+09	1,328277E+09	9,892576E+08	5,472974E+08
-2343	1,913600E+08	1,687421E+07	0,000000E+00	0,000000E+00	1,687767E+07	1,913700E+08	5,472945E+08	9,892459E+08	1,328255E+09	1,328226E+09	9,891740E+08	5,472327E+08
-2342	1,913393E+08	1,687339E+07	0,000000E+00	0,000000E+00	1,687212E+07	1,913405E+08	5,472444E+08	9,891831E+08	1,328218E+09	1,328232E+09	9,892214E+08	5,472844E+08
-2341	1,913734E+08	1,688167E+07	0,000000E+00	0,000000E+00	1,687847E+07	1,913567E+08	5,472572E+08	9,891758E+08	1,328192E+09	1,328214E+09	9,892147E+08	5,472733E+08
-2340	1,913509E+08	1,687507E+07	0,000000E+00	0,000000E+00	1,687954E+07	1,913730E+08	5,472941E+08	9,892323E+08	1,328226E+09	1,328197E+09	9,891632E+08	5,472389E+08
-2339	1,913465E+08	1,687436E+07	0,000000E+00	0,000000E+00	1,687083E+07	1,913344E+08	5,472401E+08	9,891861E+08	1,328231E+09	1,328258E+09	9,892514E+08	5,473017E+08
-2338	1,913715E+08	1,687752E+07	0,000000E+00	0,000000E+00	1,687658E+07	1,913623E+08	5,472872E+08	9,892484E+08	1,328278E+09	1,328271E+09	9,892281E+08	5,472574E+08
-2337	1,913328E+08	1,686718E+07	0,000000E+00	0,000000E+00	1,686896E+07	1,913492E+08	5,472895E+08	9,892788E+08	1,328323E+09	1,328303E+09	9,892398E+08	5,472666E+08
-2336	1,913445E+08	1,686879E+07	0,000000E+00	0,000000E+00	1,686330E+07	1,913220E+08	5,472496E+08	9,892449E+08	1,328334E+09	1,328370E+09	9,893237E+08	5,473159E+08
-2335	1,913533E+08	1,686761E+07	0,000000E+00	0,000000E+00	1,686961E+07	1,913596E+08	5,473169E+08	9,893268E+08	1,328383E+09	1,328373E+09	9,892855E+08	5,472622E+08
-2334	1,913191E+08	1,685845E+07	0,000000E+00	0,000000E+00	1,685815E+07	1,913288E+08	5,472917E+08	9,893230E+08	1,328406E+09	1,328407E+09	9,893322E+08	5,473070E+08
-2333	1,913465E+08	1,686456E+07	0,000000E+00	0,000000E+00	1,686036E+07	1,913271E+08	5,472847E+08	9,893122E+08	1,328402E+09	1,328417E+09	9,893488E+08	5,473137E+08
-2332	1,913363E+08	1,686022E+07	0,000000E+00	0,000000E+00	1,686344E+07	1,913494E+08	5,473242E+08	9,893659E+08	1,328436E+09	1,328401E+09	9,892851E+08	5,472607E+08
-2331	1,913215E+08	1,685838E+07	0,000000E+00	0,000000E+00	1,685612E+07	1,913144E+08	5,472634E+08	9,892927E+08	1,328398E+09	1,328420E+09	9,893460E+08	5,473180E+08
-2330	1,913564E+08	1,686817E+07	0,000000E+00	0,000000E+00	1,686680E+07	1,913425E+08	5,472878E+08	9,892943E+08	1,328367E+09	1,328375E+09	9,893068E+08	5,472844E+08
-2329	1,913284E+08	1,686168E+07	0,000000E+00	0,000000E+00	1,686651E+07	1,913526E+08	5,473049E+08	9,893020E+08	1,328341E+09	1,328314E+09	9,892419E+08	5,472614E+08
-2328	1,913379E+08	1,686794E+07	0,000000E+00	0,000000E+00	1,686560E+07	1,913258E+08	5,472448E+08	9,892121E+08	1,328267E+09	1,328292E+09	9,892742E+08	5,473087E+08
-2327	1,913684E+08	1,687526E+07	0,000000E+00	0,000000E+00	1,687718E+07	1,913672E+08	5,472926E+08	9,892386E+08	1,328243E+09	1,328227E+09	9,891908E+08	5,472411E+08
-2326	1,913369E+08	1,687162E+07	0,000000E+00	0,000000E+00	1,687362E+07	1,913528E+08	5,472676E+08	9,892050E+08	1,328209E+09	1,328188E+09	9,891707E+08	5,472573E+08
-2325	1,913668E+08	1,688246E+07	0,000000E+00	0,000000E+00	1,687811E+07	1,913453E+08	5,472294E+08	9,891318E+08	1,328145E+09	1,328166E+09	9,891836E+08	5,472749E+08
-2324	1,913704E+08	1,688301E+07	0,000000E+00	0,000000E+00	1,688689E+07	1,913839E+08	5,472793E+08	9,891740E+08	1,328145E+09	1,328121E+09	9,891060E+08	5,472128E+08
-2323	1,913471E+08	1,688070E+07	0,000000E+00	0,000000E+00	1,688089E+07	1,913542E+08	5,472323E+08	9,891184E+08	1,328111E+09	1,328125E+09	9,891564E+08	5,472706E+08
-2322	1,913830E+08	1,688843E+07	0,000000E+00	0,000000E+00	1,688588E+07	1,913662E+08	5,472446E+08	9,891276E+08	1,328111E+09	1,328120E+09	9,891498E+08	5,472560E+08
-2321	1,913597E+08	1,688153E+07	0,000000E+00	0,000000E+00	1,688570E+07	1,913802E+08	5,472798E+08	9,891813E+08	1,328149E+09	1,328116E+09	9,891070E+08	5,472225E+08
-2320	1,913533E+08	1,688023E+07	0,000000E+00	0,000000E+00	1,687591E+07	1,913370E+08	5,472173E+08	9,891236E+08	1,328144E+09	1,328173E+09	9,891950E+08	5,472863E+08
-2319	1,913813E+08	1,688444E+07	0,000000E+00	0,000000E+00	1,688214E+07	1,913668E+08	5,472657E+08	9,891824E+08	1,328185E+09	1,328192E+09	9,891830E+08	5,472448E+08
-2318	1,913416E+08	1,687418E+07	0,000000E+00	0,000000E+00	1,687541E+07	1,913574E+08	5,472724E+08	9,892159E+08	1,328233E+09	1,328222E+09	9,891940E+08	5,472586E+08
-2317	1,913539E+08	1,687512E+07	0,000000E+00	0,000000E+00	1,687007E+07	1,913341E+08	5,472400E+08	9,891858E+08	1,328236E+09	1,328270E+09	9,892600E+08	5,472993E+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	1,913626E+08	1,687439E+07	0,000000E+00	0,000000E+00	1,687629E+07	1,913689E+08	5,473062E+08	9,892748E+08	1,328295E+09	1,328277E+09	9,892198E+08	5,472437E+08
-2315	1,913274E+08	1,686498E+07	0,000000E+00	0,000000E+00	1,686488E+07	1,913362E+08	5,472753E+08	9,892661E+08	1,328317E+09	1,328312E+09	9,892671E+08	5,472902E+08
-2314	1,913565E+08	1,687187E+07	0,000000E+00	0,000000E+00	1,686753E+07	1,913338E+08	5,472653E+08	9,892577E+08	1,328323E+09	1,328332E+09	9,892862E+08	5,472939E+08
-2313	1,913448E+08	1,686756E+07	0,000000E+00	0,000000E+00	1,687119E+07	1,913600E+08	5,473066E+08	9,893000E+08	1,328341E+09	1,328312E+09	9,892279E+08	5,472428E+08
-2312	1,913276E+08	1,686519E+07	0,000000E+00	0,000000E+00	1,686406E+07	1,913257E+08	5,472459E+08	9,892184E+08	1,328282E+09	1,328308E+09	9,892789E+08	5,473024E+08
-2311	1,913673E+08	1,687595E+07	0,000000E+00	0,000000E+00	1,687485E+07	1,913547E+08	5,472741E+08	9,892228E+08	1,328248E+09	1,328261E+09	9,892398E+08	5,472688E+08
-2310	1,913402E+08	1,687018E+07	0,000000E+00	0,000000E+00	1,687475E+07	1,913637E+08	5,472890E+08	9,892347E+08	1,328233E+09	1,328199E+09	9,891676E+08	5,472449E+08
-2309	1,913510E+08	1,687663E+07	0,000000E+00	0,000000E+00	1,687393E+07	1,913373E+08	5,472274E+08	9,891399E+08	1,328154E+09	1,328171E+09	9,891875E+08	5,472825E+08
-2308	1,913804E+08	1,688475E+07	0,000000E+00	0,000000E+00	1,688581E+07	1,913766E+08	5,472705E+08	9,891639E+08	1,328134E+09	1,328115E+09	9,891118E+08	5,472164E+08
-2307	1,913466E+08	1,688054E+07	0,000000E+00	0,000000E+00	1,688298E+07	1,913638E+08	5,472438E+08	9,891244E+08	1,328093E+09	1,328077E+09	9,891009E+08	5,472397E+08
-2306	1,913775E+08	1,689091E+07	0,000000E+00	0,000000E+00	1,688727E+07	1,913577E+08	5,472120E+08	9,890645E+08	1,328041E+09	1,328064E+09	9,891182E+08	5,472581E+08
-2305	1,913798E+08	1,689057E+07	0,000000E+00	0,000000E+00	1,689517E+07	1,913964E+08	5,472663E+08	9,891090E+08	1,328040E+09	1,328018E+09	9,890445E+08	5,471984E+08
-2304	1,913554E+08	1,688732E+07	0,000000E+00	0,000000E+00	1,688741E+07	1,913611E+08	5,472137E+08	9,890526E+08	1,328006E+09	1,328018E+09	9,890895E+08	5,472569E+08
-2303	1,913955E+08	1,689587E+07	0,000000E+00	0,000000E+00	1,689166E+07	1,913706E+08	5,472229E+08	9,890617E+08	1,328016E+09	1,328030E+09	9,890921E+08	5,472413E+08
-2302	1,913711E+08	1,688940E+07	0,000000E+00	0,000000E+00	1,689191E+07	1,913849E+08	5,472565E+08	9,891162E+08	1,328062E+09	1,328033E+09	9,890533E+08	5,472098E+08
-2301	1,913636E+08	1,688736E+07	0,000000E+00	0,000000E+00	1,688277E+07	1,913475E+08	5,472011E+08	9,890585E+08	1,328048E+09	1,328080E+09	9,891326E+08	5,472663E+08
-2300	1,913885E+08	1,689138E+07	0,000000E+00	0,000000E+00	1,688940E+07	1,913786E+08	5,472562E+08	9,891281E+08	1,328096E+09	1,328102E+09	9,891236E+08	5,472276E+08
-2299	1,913471E+08	1,687991E+07	0,000000E+00	0,000000E+00	1,688264E+07	1,913697E+08	5,472662E+08	9,891695E+08	1,328149E+09	1,328131E+09	9,891358E+08	5,472446E+08
-2298	1,913610E+08	1,688077E+07	0,000000E+00	0,000000E+00	1,687664E+07	1,913435E+08	5,472335E+08	9,891519E+08	1,328172E+09	1,328191E+09	9,892013E+08	5,472812E+08
-2297	1,913688E+08	1,688015E+07	0,000000E+00	0,000000E+00	1,688236E+07	1,913764E+08	5,472937E+08	9,892283E+08	1,328225E+09	1,328204E+09	9,891676E+08	5,472273E+08
-2296	1,913330E+08	1,687088E+07	0,000000E+00	0,000000E+00	1,687078E+07	1,913405E+08	5,472517E+08	9,892002E+08	1,328226E+09	1,328225E+09	9,892108E+08	5,472759E+08
-2295	1,913669E+08	1,687930E+07	0,000000E+00	0,000000E+00	1,687443E+07	1,913404E+08	5,472399E+08	9,891786E+08	1,328215E+09	1,328240E+09	9,892338E+08	5,472817E+08
-2294	1,913558E+08	1,687569E+07	0,000000E+00	0,000000E+00	1,687908E+07	1,913701E+08	5,472858E+08	9,892222E+08	1,328226E+09	1,328205E+09	9,891668E+08	5,472333E+08
-2293	1,913403E+08	1,687324E+07	0,000000E+00	0,000000E+00	1,687252E+07	1,913395E+08	5,472316E+08	9,891431E+08	1,328155E+09	1,328177E+09	9,891942E+08	5,472807E+08
-2292	1,913794E+08	1,688477E+07	0,000000E+00	0,000000E+00	1,688310E+07	1,913655E+08	5,472589E+08	9,891549E+08	1,328133E+09	1,328133E+09	9,891521E+08	5,472455E+08
-2291	1,913516E+08	1,687902E+07	0,000000E+00	0,000000E+00	1,688345E+07	1,913741E+08	5,472694E+08	9,891638E+08	1,328123E+09	1,328082E+09	9,890853E+08	5,472227E+08
-2290	1,913629E+08	1,688580E+07	0,000000E+00	0,000000E+00	1,688280E+07	1,913471E+08	5,472069E+08	9,890746E+08	1,328057E+09	1,328068E+09	9,891126E+08	5,472577E+08
-2289	1,913893E+08	1,689341E+07	0,000000E+00	0,000000E+00	1,689494E+07	1,913896E+08	5,472522E+08	9,890912E+08	1,328029E+09	1,328017E+09	9,890496E+08	5,471987E+08
-2288	1,913544E+08	1,688839E+07	0,000000E+00	0,000000E+00	1,689163E+07	1,913753E+08	5,472245E+08	9,890484E+08	1,327977E+09	1,327967E+09	9,890348E+08	5,472264E+08
-2287	1,913893E+08	1,689889E+07	0,000000E+00	0,000000E+00	1,689511E+07	1,913678E+08	5,471940E+08	9,889916E+08	1,327930E+09	1,327959E+09	9,890573E+08	5,472459E+08
-2286	1,913925E+08	1,689890E+07	0,000000E+00	0,000000E+00	1,690241E+07	1,914042E+08	5,472468E+08	9,890425E+08	1,327940E+09	1,327917E+09	9,889810E+08	5,471869E+08
-2285	1,913681E+08	1,689514E+07	0,000000E+00	0,000000E+00	1,689439E+07	1,913693E+08	5,471934E+08	9,889816E+08	1,327901E+09	1,327909E+09	9,890135E+08	5,472342E+08
-2284	1,914055E+08	1,690394E+07	0,000000E+00	0,000000E+00	1,689872E+07	1,913779E+08	5,472021E+08	9,889933E+08	1,327917E+09	1,327931E+09	9,890237E+08	5,472209E+08
-2283	1,913784E+08	1,689650E+07	0,000000E+00	0,000000E+00	1,689976E+07	1,913957E+08	5,472388E+08	9,890496E+08	1,327964E+09	1,327939E+09	9,889937E+08	5,471940E+08
-2282	1,913704E+08	1,689360E+07	0,000000E+00	0,000000E+00	1,689023E+07	1,913599E+08	5,471945E+08	9,890143E+08	1,327970E+09	1,327996E+09	9,890751E+08	5,472484E+08
-2281	1,913929E+08	1,689671E+07	0,000000E+00	0,000000E+00	1,689612E+07	1,913906E+08	5,472527E+08	9,890881E+08	1,328022E+09	1,328022E+09	9,890722E+08	5,472141E+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	1,913522E+08	1,688489E+07	0,000000E+00	0,000000E+00	1,688782E+07	1,913753E+08	5,472535E+08	9,891243E+08	1,328075E+09	1,328048E+09	9,890800E+08	5,472321E+08
-2279	1,913705E+08	1,688695E+07	0,000000E+00	0,000000E+00	1,688175E+07	1,913470E+08	5,472138E+08	9,890949E+08	1,328095E+09	1,328120E+09	9,891544E+08	5,472698E+08
-2278	1,913794E+08	1,688750E+07	0,000000E+00	0,000000E+00	1,688826E+07	1,913803E+08	5,472694E+08	9,891625E+08	1,328140E+09	1,328127E+09	9,891192E+08	5,472178E+08
-2277	1,913438E+08	1,687818E+07	0,000000E+00	0,000000E+00	1,687818E+07	1,913511E+08	5,472319E+08	9,891249E+08	1,328117E+09	1,328121E+09	9,891441E+08	5,472580E+08
-2276	1,913769E+08	1,688729E+07	0,000000E+00	0,000000E+00	1,688261E+07	1,913527E+08	5,472253E+08	9,891087E+08	1,328103E+09	1,328126E+09	9,891614E+08	5,472652E+08
-2275	1,913654E+08	1,688315E+07	0,000000E+00	0,000000E+00	1,688764E+07	1,913830E+08	5,472723E+08	9,891563E+08	1,328114E+09	1,328086E+09	9,890890E+08	5,472154E+08
-2274	1,913513E+08	1,688125E+07	0,000000E+00	0,000000E+00	1,688078E+07	1,913508E+08	5,472206E+08	9,890918E+08	1,328064E+09	1,328069E+09	9,891130E+08	5,472546E+08
-2273	1,913873E+08	1,689272E+07	0,000000E+00	0,000000E+00	1,689120E+07	1,913757E+08	5,472422E+08	9,890915E+08	1,328037E+09	1,328032E+09	9,890788E+08	5,472217E+08
-2272	1,913592E+08	1,688713E+07	0,000000E+00	0,000000E+00	1,689148E+07	1,913816E+08	5,472433E+08	9,890845E+08	1,328012E+09	1,327975E+09	9,890149E+08	5,472038E+08
-2271	1,913741E+08	1,689470E+07	0,000000E+00	0,000000E+00	1,689159E+07	1,913576E+08	5,471811E+08	9,889861E+08	1,327938E+09	1,327967E+09	9,890530E+08	5,472446E+08
-2270	1,914014E+08	1,690249E+07	0,000000E+00	0,000000E+00	1,690379E+07	1,914010E+08	5,472302E+08	9,890077E+08	1,327907E+09	1,327905E+09	9,889859E+08	5,471904E+08
-2269	1,913687E+08	1,689706E+07	0,000000E+00	0,000000E+00	1,690050E+07	1,913882E+08	5,472060E+08	9,889674E+08	1,327848E+09	1,327837E+09	9,889526E+08	5,472083E+08
-2268	1,914030E+08	1,690785E+07	0,000000E+00	0,000000E+00	1,690300E+07	1,913769E+08	5,471742E+08	9,889195E+08	1,327815E+09	1,327836E+09	9,889744E+08	5,472262E+08
-2267	1,914038E+08	1,690721E+07	0,000000E+00	0,000000E+00	1,691030E+07	1,914127E+08	5,472254E+08	9,889721E+08	1,327835E+09	1,327808E+09	9,889056E+08	5,471666E+08
-2266	1,913783E+08	1,690302E+07	0,000000E+00	0,000000E+00	1,690214E+07	1,913796E+08	5,471799E+08	9,889282E+08	1,327816E+09	1,327818E+09	9,889452E+08	5,472086E+08
-2265	1,914095E+08	1,691033E+07	0,000000E+00	0,000000E+00	1,690641E+07	1,913916E+08	5,471944E+08	9,889421E+08	1,327835E+09	1,327850E+09	9,889686E+08	5,472027E+08
-2264	1,913816E+08	1,690187E+07	0,000000E+00	0,000000E+00	1,690642E+07	1,914068E+08	5,472307E+08	9,890008E+08	1,327883E+09	1,327856E+09	9,889414E+08	5,471820E+08
-2263	1,913778E+08	1,689908E+07	0,000000E+00	0,000000E+00	1,689607E+07	1,913686E+08	5,471847E+08	9,889674E+08	1,327898E+09	1,327926E+09	9,890303E+08	5,472387E+08
-2262	1,914020E+08	1,690295E+07	0,000000E+00	0,000000E+00	1,690129E+07	1,913951E+08	5,472371E+08	9,890405E+08	1,327955E+09	1,327953E+09	9,890268E+08	5,472080E+08
-2261	1,913638E+08	1,689149E+07	0,000000E+00	0,000000E+00	1,689325E+07	1,913792E+08	5,472310E+08	9,890602E+08	1,327988E+09	1,327963E+09	9,890205E+08	5,472160E+08
-2260	1,913809E+08	1,689457E+07	0,000000E+00	0,000000E+00	1,688798E+07	1,913514E+08	5,471879E+08	9,890226E+08	1,327997E+09	1,328027E+09	9,890946E+08	5,472557E+08
-2259	1,913889E+08	1,689491E+07	0,000000E+00	0,000000E+00	1,689591E+07	1,913894E+08	5,472460E+08	9,890843E+08	1,328030E+09	1,328025E+09	9,890574E+08	5,472047E+08
-2258	1,913540E+08	1,688554E+07	0,000000E+00	0,000000E+00	1,688631E+07	1,913641E+08	5,472215E+08	9,890648E+08	1,328013E+09	1,328012E+09	9,890705E+08	5,472362E+08
-2257	1,913836E+08	1,689416E+07	0,000000E+00	0,000000E+00	1,689073E+07	1,913665E+08	5,472172E+08	9,890515E+08	1,328002E+09	1,328016E+09	9,890867E+08	5,472446E+08
-2256	1,913733E+08	1,689021E+07	0,000000E+00	0,000000E+00	1,689495E+07	1,913921E+08	5,472556E+08	9,890928E+08	1,328013E+09	1,327975E+09	9,890117E+08	5,471951E+08
-2255	1,913624E+08	1,688954E+07	0,000000E+00	0,000000E+00	1,688844E+07	1,913588E+08	5,471978E+08	9,890185E+08	1,327964E+09	1,327974E+09	9,890464E+08	5,472356E+08
-2254	1,913985E+08	1,690180E+07	0,000000E+00	0,000000E+00	1,689939E+07	1,913845E+08	5,472178E+08	9,890139E+08	1,327932E+09	1,327935E+09	9,890168E+08	5,472085E+08
-2253	1,913718E+08	1,689615E+07	0,000000E+00	0,000000E+00	1,690081E+07	1,913948E+08	5,472215E+08	9,889980E+08	1,327886E+09	1,327857E+09	9,889398E+08	5,471851E+08
-2252	1,913862E+08	1,690401E+07	0,000000E+00	0,000000E+00	1,690103E+07	1,913715E+08	5,471644E+08	9,889077E+08	1,327812E+09	1,327840E+09	9,889752E+08	5,472292E+08
-2251	1,914134E+08	1,691097E+07	0,000000E+00	0,000000E+00	1,691295E+07	1,914138E+08	5,472128E+08	9,889341E+08	1,327788E+09	1,327781E+09	9,889059E+08	5,471733E+08
-2250	1,913816E+08	1,690556E+07	0,000000E+00	0,000000E+00	1,690896E+07	1,913997E+08	5,471935E+08	9,889102E+08	1,327750E+09	1,327725E+09	9,888699E+08	5,471815E+08
-2249	1,914106E+08	1,691537E+07	0,000000E+00	0,000000E+00	1,691085E+07	1,913874E+08	5,471586E+08	9,888573E+08	1,327721E+09	1,327738E+09	9,889032E+08	5,472023E+08
-2248	1,914100E+08	1,691425E+07	0,000000E+00	0,000000E+00	1,691747E+07	1,914204E+08	5,472037E+08	9,889029E+08	1,327737E+09	1,327713E+09	9,888427E+08	5,471486E+08
-2247	1,913864E+08	1,691001E+07	0,000000E+00	0,000000E+00	1,690936E+07	1,913898E+08	5,471625E+08	9,888607E+08	1,327724E+09	1,327740E+09	9,888968E+08	5,471962E+08
-2246	1,914174E+08	1,691702E+07	0,000000E+00	0,000000E+00	1,691294E+07	1,914011E+08	5,471825E+08	9,888867E+08	1,327750E+09	1,327769E+09	9,889212E+08	5,471962E+08
-2245	1,913925E+08	1,690835E+07	0,000000E+00	0,000000E+00	1,691255E+07	1,914149E+08	5,472173E+08	9,889444E+08	1,327793E+09	1,327765E+09	9,888816E+08	5,471689E+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	1,913892E+08	1,690622E+07	0,000000E+00	0,000000E+00	1,690163E+07	1,913735E+08	5,471672E+08	9,889128E+08	1,327816E+09	1,327837E+09	9,889705E+08	5,472262E+08
-2243	1,914124E+08	1,690985E+07	0,000000E+00	0,000000E+00	1,690729E+07	1,913989E+08	5,472128E+08	9,889755E+08	1,327868E+09	1,327869E+09	9,889698E+08	5,471944E+08
-2242	1,913744E+08	1,689862E+07	0,000000E+00	0,000000E+00	1,690003E+07	1,913874E+08	5,472152E+08	9,890038E+08	1,327902E+09	1,327879E+09	9,889603E+08	5,471946E+08
-2241	1,913856E+08	1,690072E+07	0,000000E+00	0,000000E+00	1,689575E+07	1,913649E+08	5,471779E+08	9,889633E+08	1,327903E+09	1,327935E+09	9,890350E+08	5,472371E+08
-2240	1,913933E+08	1,690060E+07	0,000000E+00	0,000000E+00	1,690314E+07	1,914010E+08	5,472350E+08	9,890248E+08	1,327929E+09	1,327922E+09	9,889921E+08	5,471888E+08
-2239	1,913626E+08	1,689200E+07	0,000000E+00	0,000000E+00	1,689361E+07	1,913760E+08	5,472106E+08	9,890073E+08	1,327922E+09	1,327921E+09	9,890070E+08	5,472186E+08
-2238	1,913926E+08	1,690152E+07	0,000000E+00	0,000000E+00	1,689762E+07	1,913747E+08	5,472016E+08	9,889928E+08	1,327913E+09	1,327922E+09	9,890207E+08	5,472286E+08
-2237	1,913854E+08	1,689841E+07	0,000000E+00	0,000000E+00	1,690251E+07	1,913998E+08	5,472317E+08	9,890153E+08	1,327903E+09	1,327867E+09	9,889371E+08	5,471739E+08
-2236	1,913746E+08	1,689903E+07	0,000000E+00	0,000000E+00	1,689704E+07	1,913678E+08	5,471714E+08	9,889342E+08	1,327846E+09	1,327859E+09	9,889735E+08	5,472189E+08
-2235	1,914101E+08	1,691074E+07	0,000000E+00	0,000000E+00	1,690888E+07	1,913967E+08	5,471934E+08	9,889251E+08	1,327803E+09	1,327815E+09	9,889437E+08	5,471945E+08
-2234	1,913856E+08	1,690525E+07	0,000000E+00	0,000000E+00	1,691049E+07	1,914097E+08	5,472095E+08	9,889280E+08	1,327764E+09	1,327733E+09	9,888582E+08	5,471627E+08
-2233	1,913959E+08	1,691219E+07	0,000000E+00	0,000000E+00	1,691021E+07	1,913860E+08	5,471528E+08	9,888410E+08	1,327698E+09	1,327718E+09	9,888938E+08	5,472071E+08
-2232	1,914230E+08	1,691888E+07	0,000000E+00	0,000000E+00	1,692058E+07	1,914219E+08	5,471917E+08	9,888624E+08	1,327678E+09	1,327666E+09	9,888264E+08	5,471523E+08
-2231	1,913934E+08	1,691408E+07	0,000000E+00	0,000000E+00	1,691672E+07	1,914082E+08	5,471699E+08	9,888351E+08	1,327650E+09	1,327633E+09	9,888040E+08	5,471609E+08
-2230	1,914203E+08	1,692369E+07	0,000000E+00	0,000000E+00	1,691828E+07	1,913964E+08	5,471386E+08	9,887885E+08	1,327625E+09	1,327649E+09	9,888456E+08	5,471882E+08
-2229	1,914208E+08	1,692205E+07	0,000000E+00	0,000000E+00	1,692525E+07	1,914316E+08	5,471872E+08	9,888322E+08	1,327630E+09	1,327614E+09	9,887814E+08	5,471338E+08
-2228	1,913968E+08	1,691768E+07	0,000000E+00	0,000000E+00	1,691656E+07	1,914002E+08	5,471506E+08	9,888036E+08	1,327629E+09	1,327641E+09	9,888370E+08	5,471850E+08
-2227	1,914269E+08	1,692367E+07	0,000000E+00	0,000000E+00	1,691965E+07	1,914094E+08	5,471687E+08	9,888332E+08	1,327665E+09	1,327680E+09	9,888635E+08	5,471846E+08
-2226	1,914040E+08	1,691526E+07	0,000000E+00	0,000000E+00	1,691871E+07	1,914218E+08	5,472061E+08	9,888991E+08	1,327718E+09	1,327684E+09	9,888205E+08	5,471470E+08
-2225	1,913946E+08	1,691212E+07	0,000000E+00	0,000000E+00	1,690802E+07	1,913811E+08	5,471515E+08	9,888573E+08	1,327736E+09	1,327759E+09	9,889151E+08	5,472065E+08
-2224	1,914171E+08	1,691556E+07	0,000000E+00	0,000000E+00	1,691354E+07	1,914052E+08	5,471903E+08	9,889072E+08	1,327774E+09	1,327783E+09	9,889161E+08	5,471795E+08
-2223	1,913816E+08	1,690461E+07	0,000000E+00	0,000000E+00	1,690706E+07	1,913982E+08	5,471982E+08	9,889351E+08	1,327807E+09	1,327796E+09	9,889095E+08	5,471816E+08
-2222	1,913933E+08	1,690700E+07	0,000000E+00	0,000000E+00	1,690249E+07	1,913757E+08	5,471681E+08	9,889074E+08	1,327808E+09	1,327840E+09	9,889769E+08	5,472262E+08
-2221	1,914047E+08	1,690743E+07	0,000000E+00	0,000000E+00	1,690979E+07	1,914097E+08	5,472207E+08	9,889628E+08	1,327825E+09	1,327812E+09	9,889195E+08	5,471712E+08
-2220	1,913750E+08	1,690029E+07	0,000000E+00	0,000000E+00	1,690045E+07	1,913832E+08	5,471930E+08	9,889453E+08	1,327824E+09	1,327812E+09	9,889334E+08	5,472001E+08
-2219	1,914035E+08	1,690979E+07	0,000000E+00	0,000000E+00	1,690542E+07	1,913824E+08	5,471780E+08	9,889196E+08	1,327810E+09	1,327822E+09	9,889511E+08	5,472095E+08
-2218	1,913975E+08	1,690730E+07	0,000000E+00	0,000000E+00	1,691132E+07	1,914122E+08	5,472166E+08	9,889475E+08	1,327797E+09	1,327764E+09	9,888647E+08	5,471490E+08
-2217	1,913816E+08	1,690704E+07	0,000000E+00	0,000000E+00	1,690691E+07	1,913845E+08	5,471598E+08	9,888640E+08	1,327732E+09	1,327748E+09	9,889020E+08	5,471989E+08
-2216	1,914183E+08	1,691827E+07	0,000000E+00	0,000000E+00	1,691764E+07	1,914090E+08	5,471766E+08	9,888519E+08	1,327685E+09	1,327696E+09	9,888684E+08	5,471776E+08
-2215	1,913979E+08	1,691356E+07	0,000000E+00	0,000000E+00	1,691917E+07	1,914215E+08	5,471909E+08	9,888555E+08	1,327657E+09	1,327627E+09	9,887868E+08	5,471446E+08
-2214	1,914082E+08	1,692094E+07	0,000000E+00	0,000000E+00	1,691785E+07	1,913942E+08	5,471324E+08	9,887705E+08	1,327593E+09	1,327612E+09	9,888222E+08	5,471893E+08
-2213	1,914360E+08	1,692775E+07	0,000000E+00	0,000000E+00	1,692824E+07	1,914285E+08	5,471639E+08	9,887771E+08	1,327559E+09	1,327552E+09	9,887515E+08	5,471315E+08
-2212	1,914058E+08	1,692359E+07	0,000000E+00	0,000000E+00	1,692502E+07	1,914177E+08	5,471463E+08	9,887542E+08	1,327533E+09	1,327520E+09	9,887353E+08	5,471445E+08
-2211	1,914298E+08	1,693161E+07	0,000000E+00	0,000000E+00	1,692671E+07	1,914082E+08	5,471199E+08	9,887129E+08	1,327513E+09	1,327543E+09	9,887801E+08	5,471735E+08
-2210	1,914320E+08	1,692981E+07	0,000000E+00	0,000000E+00	1,693328E+07	1,914450E+08	5,471818E+08	9,887802E+08	1,327534E+09	1,327512E+09	9,887142E+08	5,471140E+08
-2209	1,914038E+08	1,692408E+07	0,000000E+00	0,000000E+00	1,692397E+07	1,914119E+08	5,471434E+08	9,887573E+08	1,327547E+09	1,327550E+09	9,887737E+08	5,471659E+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	1,914332E+08	1,692946E+07	0,000000E+00	0,000000E+00	1,692533E+07	1,914140E+08	5,471499E+08	9,887785E+08	1,327585E+09	1,327597E+09	9,888055E+08	5,471686E+08
-2207	1,914128E+08	1,692162E+07	0,000000E+00	0,000000E+00	1,692482E+07	1,914277E+08	5,471844E+08	9,888377E+08	1,327642E+09	1,327618E+09	9,887747E+08	5,471321E+08
-2206	1,914016E+08	1,691830E+07	0,000000E+00	0,000000E+00	1,691406E+07	1,913891E+08	5,471357E+08	9,887988E+08	1,327651E+09	1,327683E+09	9,888687E+08	5,471954E+08
-2205	1,914254E+08	1,692169E+07	0,000000E+00	0,000000E+00	1,692003E+07	1,914142E+08	5,471749E+08	9,888412E+08	1,327671E+09	1,327687E+09	9,888591E+08	5,471667E+08
-2204	1,913917E+08	1,691156E+07	0,000000E+00	0,000000E+00	1,691375E+07	1,914084E+08	5,471880E+08	9,888806E+08	1,327711E+09	1,327691E+09	9,888455E+08	5,471682E+08
-2203	1,914025E+08	1,691367E+07	0,000000E+00	0,000000E+00	1,690936E+07	1,913845E+08	5,471548E+08	9,888532E+08	1,327720E+09	1,327743E+09	9,889087E+08	5,472086E+08
-2202	1,914164E+08	1,691524E+07	0,000000E+00	0,000000E+00	1,691682E+07	1,914187E+08	5,472100E+08	9,889115E+08	1,327739E+09	1,327717E+09	9,888476E+08	5,471458E+08
-2201	1,913821E+08	1,690784E+07	0,000000E+00	0,000000E+00	1,690856E+07	1,913934E+08	5,471758E+08	9,888816E+08	1,327729E+09	1,327718E+09	9,888661E+08	5,471766E+08
-2200	1,914101E+08	1,691721E+07	0,000000E+00	0,000000E+00	1,691355E+07	1,913914E+08	5,471534E+08	9,888395E+08	1,327698E+09	1,327718E+09	9,888867E+08	5,471929E+08
-2199	1,914080E+08	1,691541E+07	0,000000E+00	0,000000E+00	1,692036E+07	1,914251E+08	5,471952E+08	9,888651E+08	1,327681E+09	1,327661E+09	9,888025E+08	5,471346E+08
-2198	1,913931E+08	1,691550E+07	0,000000E+00	0,000000E+00	1,691556E+07	1,913971E+08	5,471445E+08	9,887915E+08	1,327614E+09	1,327630E+09	9,888314E+08	5,471864E+08
-2197	1,914334E+08	1,692714E+07	0,000000E+00	0,000000E+00	1,692571E+07	1,914174E+08	5,471526E+08	9,887689E+08	1,327557E+09	1,327566E+09	9,887861E+08	5,471593E+08
-2196	1,914137E+08	1,692367E+07	0,000000E+00	0,000000E+00	1,692737E+07	1,914293E+08	5,471656E+08	9,887740E+08	1,327534E+09	1,327498E+09	9,887038E+08	5,471247E+08
-2195	1,914209E+08	1,693041E+07	0,000000E+00	0,000000E+00	1,692656E+07	1,914036E+08	5,471071E+08	9,886883E+08	1,327475E+09	1,327497E+09	9,887444E+08	5,471669E+08
-2194	1,914480E+08	1,693701E+07	0,000000E+00	0,000000E+00	1,693738E+07	1,914428E+08	5,471520E+08	9,887089E+08	1,327446E+09	1,327440E+09	9,886752E+08	5,471052E+08
-2193	1,914115E+08	1,693114E+07	0,000000E+00	0,000000E+00	1,693447E+07	1,914347E+08	5,471406E+08	9,886970E+08	1,327432E+09	1,327416E+09	9,886663E+08	5,471229E+08
-2192	1,914350E+08	1,693773E+07	0,000000E+00	0,000000E+00	1,693434E+07	1,914200E+08	5,471101E+08	9,886601E+08	1,327423E+09	1,327448E+09	9,887170E+08	5,471573E+08
-2191	1,914407E+08	1,693629E+07	0,000000E+00	0,000000E+00	1,694024E+07	1,914541E+08	5,471671E+08	9,887284E+08	1,327461E+09	1,327439E+09	9,886626E+08	5,471001E+08
-2190	1,914126E+08	1,693059E+07	0,000000E+00	0,000000E+00	1,692958E+07	1,914170E+08	5,471264E+08	9,887051E+08	1,327473E+09	1,327477E+09	9,887253E+08	5,471546E+08
-2189	1,914432E+08	1,693604E+07	0,000000E+00	0,000000E+00	1,693074E+07	1,914158E+08	5,471215E+08	9,887054E+08	1,327489E+09	1,327511E+09	9,887532E+08	5,471560E+08
-2188	1,914234E+08	1,692904E+07	0,000000E+00	0,000000E+00	1,693105E+07	1,914337E+08	5,471615E+08	9,887660E+08	1,327539E+09	1,327521E+09	9,887213E+08	5,471221E+08
-2187	1,914101E+08	1,692473E+07	0,000000E+00	0,000000E+00	1,692091E+07	1,913989E+08	5,471206E+08	9,887339E+08	1,327550E+09	1,327584E+09	9,888090E+08	5,471823E+08
-2186	1,914357E+08	1,692855E+07	0,000000E+00	0,000000E+00	1,692698E+07	1,914263E+08	5,471719E+08	9,887947E+08	1,327578E+09	1,327584E+09	9,887893E+08	5,471455E+08
-2185	1,913984E+08	1,691794E+07	0,000000E+00	0,000000E+00	1,692098E+07	1,914201E+08	5,471819E+08	9,888368E+08	1,327630E+09	1,327596E+09	9,887758E+08	5,471452E+08
-2184	1,914086E+08	1,691999E+07	0,000000E+00	0,000000E+00	1,691592E+07	1,913911E+08	5,471365E+08	9,887959E+08	1,327636E+09	1,327654E+09	9,888434E+08	5,471877E+08
-2183	1,914249E+08	1,692263E+07	0,000000E+00	0,000000E+00	1,692443E+07	1,914274E+08	5,471875E+08	9,888443E+08	1,327654E+09	1,327640E+09	9,887944E+08	5,471294E+08
-2182	1,913908E+08	1,691556E+07	0,000000E+00	0,000000E+00	1,691659E+07	1,914046E+08	5,471587E+08	9,888133E+08	1,327629E+09	1,327625E+09	9,888105E+08	5,471645E+08
-2181	1,914210E+08	1,692504E+07	0,000000E+00	0,000000E+00	1,692166E+07	1,914011E+08	5,471316E+08	9,887577E+08	1,327573E+09	1,327601E+09	9,888192E+08	5,471806E+08
-2180	1,914222E+08	1,692453E+07	0,000000E+00	0,000000E+00	1,692877E+07	1,914359E+08	5,471769E+08	9,887898E+08	1,327557E+09	1,327532E+09	9,887264E+08	5,471210E+08
-2179	1,914065E+08	1,692446E+07	0,000000E+00	0,000000E+00	1,692421E+07	1,914072E+08	5,471234E+08	9,887145E+08	1,327494E+09	1,327505E+09	9,887465E+08	5,471651E+08
-2178	1,914476E+08	1,693676E+07	0,000000E+00	0,000000E+00	1,693438E+07	1,914285E+08	5,471357E+08	9,886953E+08	1,327439E+09	1,327442E+09	9,886974E+08	5,471298E+08
-2177	1,914224E+08	1,693267E+07	0,000000E+00	0,000000E+00	1,693714E+07	1,914429E+08	5,471469E+08	9,886985E+08	1,327418E+09	1,327380E+09	9,886218E+08	5,470966E+08
-2176	1,914273E+08	1,693822E+07	0,000000E+00	0,000000E+00	1,693558E+07	1,914158E+08	5,470863E+08	9,886096E+08	1,327359E+09	1,327384E+09	9,886712E+08	5,471457E+08
-2175	1,914562E+08	1,694479E+07	0,000000E+00	0,000000E+00	1,694638E+07	1,914568E+08	5,471366E+08	9,886409E+08	1,327346E+09	1,327344E+09	9,886150E+08	5,470913E+08
-2174	1,914216E+08	1,693868E+07	0,000000E+00	0,000000E+00	1,694199E+07	1,914455E+08	5,471298E+08	9,886428E+08	1,327341E+09	1,327321E+09	9,886077E+08	5,471122E+08
-2173	1,914470E+08	1,694502E+07	0,000000E+00	0,000000E+00	1,694037E+07	1,914240E+08	5,470874E+08	9,885942E+08	1,327327E+09	1,327351E+09	9,886555E+08	5,471450E+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	1,914544E+08	1,694472E+07	0,000000E+00	0,000000E+00	1,694622E+07	1,914574E+08	5,471421E+08	9,886606E+08	1,327366E+09	1,327345E+09	9,886053E+08	5,470886E+08
-2171	1,914234E+08	1,693811E+07	0,000000E+00	0,000000E+00	1,693616E+07	1,914230E+08	5,471024E+08	9,886348E+08	1,327379E+09	1,327389E+09	9,886678E+08	5,471397E+08
-2170	1,914532E+08	1,694335E+07	0,000000E+00	0,000000E+00	1,693794E+07	1,914274E+08	5,471109E+08	9,886447E+08	1,327391E+09	1,327415E+09	9,886913E+08	5,471366E+08
-2169	1,914283E+08	1,693508E+07	0,000000E+00	0,000000E+00	1,693889E+07	1,914482E+08	5,471568E+08	9,887174E+08	1,327450E+09	1,327426E+09	9,886575E+08	5,471025E+08
-2168	1,914144E+08	1,692986E+07	0,000000E+00	0,000000E+00	1,692752E+07	1,914096E+08	5,471130E+08	9,886892E+08	1,327470E+09	1,327494E+09	9,887458E+08	5,471636E+08
-2167	1,914423E+08	1,693454E+07	0,000000E+00	0,000000E+00	1,693361E+07	1,914355E+08	5,471595E+08	9,887495E+08	1,327514E+09	1,327512E+09	9,887347E+08	5,471288E+08
-2166	1,914062E+08	1,692452E+07	0,000000E+00	0,000000E+00	1,692704E+07	1,914268E+08	5,471670E+08	9,887864E+08	1,327557E+09	1,327522E+09	9,887239E+08	5,471309E+08
-2165	1,914177E+08	1,692705E+07	0,000000E+00	0,000000E+00	1,692241E+07	1,913954E+08	5,471085E+08	9,887189E+08	1,327534E+09	1,327562E+09	9,887876E+08	5,471752E+08
-2164	1,914364E+08	1,693098E+07	0,000000E+00	0,000000E+00	1,693197E+07	1,914355E+08	5,471624E+08	9,887613E+08	1,327534E+09	1,327528E+09	9,887341E+08	5,471204E+08
-2163	1,914023E+08	1,692375E+07	0,000000E+00	0,000000E+00	1,692518E+07	1,914161E+08	5,471388E+08	9,887331E+08	1,327505E+09	1,327505E+09	9,887381E+08	5,471514E+08
-2162	1,914355E+08	1,693402E+07	0,000000E+00	0,000000E+00	1,693042E+07	1,914144E+08	5,471196E+08	9,886872E+08	1,327449E+09	1,327468E+09	9,887321E+08	5,471574E+08
-2161	1,914330E+08	1,693323E+07	0,000000E+00	0,000000E+00	1,693790E+07	1,914487E+08	5,471614E+08	9,887213E+08	1,327443E+09	1,327405E+09	9,886359E+08	5,470935E+08
-2160	1,914159E+08	1,693295E+07	0,000000E+00	0,000000E+00	1,693286E+07	1,914171E+08	5,471012E+08	9,886390E+08	1,327382E+09	1,327387E+09	9,886614E+08	5,471376E+08
-2159	1,914566E+08	1,694552E+07	0,000000E+00	0,000000E+00	1,694363E+07	1,914407E+08	5,471132E+08	9,886198E+08	1,327337E+09	1,327342E+09	9,886268E+08	5,471076E+08
-2158	1,914310E+08	1,694115E+07	0,000000E+00	0,000000E+00	1,694613E+07	1,914571E+08	5,471336E+08	9,886314E+08	1,327314E+09	1,327279E+09	9,885578E+08	5,470810E+08
-2157	1,914371E+08	1,694601E+07	0,000000E+00	0,000000E+00	1,694368E+07	1,914261E+08	5,470679E+08	9,885369E+08	1,327247E+09	1,327275E+09	9,886056E+08	5,471330E+08
-2156	1,914690E+08	1,695336E+07	0,000000E+00	0,000000E+00	1,695395E+07	1,914660E+08	5,471198E+08	9,885763E+08	1,327241E+09	1,327235E+09	9,885514E+08	5,470818E+08
-2155	1,914345E+08	1,694697E+07	0,000000E+00	0,000000E+00	1,694924E+07	1,914524E+08	5,471087E+08	9,885769E+08	1,327247E+09	1,327225E+09	9,885431E+08	5,470978E+08
-2154	1,914600E+08	1,695330E+07	0,000000E+00	0,000000E+00	1,694735E+07	1,914315E+08	5,470688E+08	9,885274E+08	1,327228E+09	1,327253E+09	9,885877E+08	5,471232E+08
-2153	1,914616E+08	1,695209E+07	0,000000E+00	0,000000E+00	1,695404E+07	1,914672E+08	5,471226E+08	9,885925E+08	1,327268E+09	1,327250E+09	9,885408E+08	5,470674E+08
-2152	1,914283E+08	1,694404E+07	0,000000E+00	0,000000E+00	1,694346E+07	1,914337E+08	5,470856E+08	9,885677E+08	1,327279E+09	1,327293E+09	9,886052E+08	5,471213E+08
-2151	1,914585E+08	1,694908E+07	0,000000E+00	0,000000E+00	1,694534E+07	1,914403E+08	5,471012E+08	9,885931E+08	1,327309E+09	1,327330E+09	9,886362E+08	5,471234E+08
-2150	1,914357E+08	1,694087E+07	0,000000E+00	0,000000E+00	1,694512E+07	1,914587E+08	5,471520E+08	9,886779E+08	1,327378E+09	1,327344E+09	9,886031E+08	5,470907E+08
-2149	1,914233E+08	1,693582E+07	0,000000E+00	0,000000E+00	1,693269E+07	1,914131E+08	5,470940E+08	9,886341E+08	1,327389E+09	1,327409E+09	9,886884E+08	5,471500E+08
-2148	1,914532E+08	1,694215E+07	0,000000E+00	0,000000E+00	1,693939E+07	1,914396E+08	5,471377E+08	9,886872E+08	1,327426E+09	1,327426E+09	9,886814E+08	5,471179E+08
-2147	1,914168E+08	1,693221E+07	0,000000E+00	0,000000E+00	1,693399E+07	1,914337E+08	5,471438E+08	9,887150E+08	1,327461E+09	1,327433E+09	9,886657E+08	5,471167E+08
-2146	1,914284E+08	1,693503E+07	0,000000E+00	0,000000E+00	1,693051E+07	1,914082E+08	5,470953E+08	9,886484E+08	1,327422E+09	1,327452E+09	9,887184E+08	5,471566E+08
-2145	1,914445E+08	1,693847E+07	0,000000E+00	0,000000E+00	1,694092E+07	1,914500E+08	5,471511E+08	9,886967E+08	1,327424E+09	1,327412E+09	9,886565E+08	5,471000E+08
-2144	1,914110E+08	1,693095E+07	0,000000E+00	0,000000E+00	1,693363E+07	1,914280E+08	5,471231E+08	9,886662E+08	1,327396E+09	1,327386E+09	9,886553E+08	5,471289E+08
-2143	1,914459E+08	1,694224E+07	0,000000E+00	0,000000E+00	1,693901E+07	1,914253E+08	5,470997E+08	9,886199E+08	1,327353E+09	1,327364E+09	9,886561E+08	5,471361E+08
-2142	1,914440E+08	1,694197E+07	0,000000E+00	0,000000E+00	1,694607E+07	1,914580E+08	5,471405E+08	9,886494E+08	1,327338E+09	1,327300E+09	9,885637E+08	5,470732E+08
-2141	1,914268E+08	1,694184E+07	0,000000E+00	0,000000E+00	1,694113E+07	1,914244E+08	5,470709E+08	9,885485E+08	1,327258E+09	1,327272E+09	9,885892E+08	5,471191E+08
-2140	1,914683E+08	1,695502E+07	0,000000E+00	0,000000E+00	1,695243E+07	1,914521E+08	5,470905E+08	9,885331E+08	1,327207E+09	1,327220E+09	9,885573E+08	5,470950E+08
-2139	1,914437E+08	1,695032E+07	0,000000E+00	0,000000E+00	1,695522E+07	1,914695E+08	5,471158E+08	9,885548E+08	1,327195E+09	1,327162E+09	9,884848E+08	5,470669E+08
-2138	1,914517E+08	1,695515E+07	0,000000E+00	0,000000E+00	1,695230E+07	1,914391E+08	5,470559E+08	9,884700E+08	1,327134E+09	1,327155E+09	9,885263E+08	5,471126E+08
-2137	1,914798E+08	1,696180E+07	0,000000E+00	0,000000E+00	1,696234E+07	1,914765E+08	5,471026E+08	9,885120E+08	1,327142E+09	1,327128E+09	9,884739E+08	5,470596E+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	1,914437E+08	1,695452E+07	0,000000E+00	0,000000E+00	1,695696E+07	1,914606E+08	5,470862E+08	9,885067E+08	1,327149E+09	1,327129E+09	9,884747E+08	5,470763E+08
-2135	1,914675E+08	1,696037E+07	0,000000E+00	0,000000E+00	1,695523E+07	1,914424E+08	5,470496E+08	9,884630E+08	1,327142E+09	1,327171E+09	9,885324E+08	5,471064E+08
-2134	1,914676E+08	1,695830E+07	0,000000E+00	0,000000E+00	1,696109E+07	1,914792E+08	5,471140E+08	9,885394E+08	1,327182E+09	1,327167E+09	9,884896E+08	5,470552E+08
-2133	1,914351E+08	1,694953E+07	0,000000E+00	0,000000E+00	1,694942E+07	1,914420E+08	5,470735E+08	9,885141E+08	1,327191E+09	1,327204E+09	9,885497E+08	5,471092E+08
-2132	1,914674E+08	1,695540E+07	0,000000E+00	0,000000E+00	1,695094E+07	1,914476E+08	5,470901E+08	9,885451E+08	1,327227E+09	1,327243E+09	9,885807E+08	5,471128E+08
-2131	1,914461E+08	1,694770E+07	0,000000E+00	0,000000E+00	1,695074E+07	1,914639E+08	5,471354E+08	9,886257E+08	1,327304E+09	1,327267E+09	9,885477E+08	5,470769E+08
-2130	1,914343E+08	1,694322E+07	0,000000E+00	0,000000E+00	1,693904E+07	1,914203E+08	5,470771E+08	9,885733E+08	1,327301E+09	1,327322E+09	9,886269E+08	5,471301E+08
-2129	1,914599E+08	1,694919E+07	0,000000E+00	0,000000E+00	1,694700E+07	1,914489E+08	5,471176E+08	9,886186E+08	1,327328E+09	1,327332E+09	9,886179E+08	5,470997E+08
-2128	1,914238E+08	1,693873E+07	0,000000E+00	0,000000E+00	1,694186E+07	1,914448E+08	5,471250E+08	9,886410E+08	1,327352E+09	1,327331E+09	9,886000E+08	5,470997E+08
-2127	1,914367E+08	1,694204E+07	0,000000E+00	0,000000E+00	1,693892E+07	1,914209E+08	5,470804E+08	9,885841E+08	1,327322E+09	1,327349E+09	9,886515E+08	5,471415E+08
-2126	1,914551E+08	1,694596E+07	0,000000E+00	0,000000E+00	1,694844E+07	1,914605E+08	5,471377E+08	9,886364E+08	1,327324E+09	1,327305E+09	9,885850E+08	5,470833E+08
-2125	1,914231E+08	1,693912E+07	0,000000E+00	0,000000E+00	1,694086E+07	1,914340E+08	5,470973E+08	9,885887E+08	1,327285E+09	1,327272E+09	9,885775E+08	5,471084E+08
-2124	1,914587E+08	1,695174E+07	0,000000E+00	0,000000E+00	1,694706E+07	1,914337E+08	5,470748E+08	9,885379E+08	1,327232E+09	1,327248E+09	9,885814E+08	5,471175E+08
-2123	1,914564E+08	1,695158E+07	0,000000E+00	0,000000E+00	1,695524E+07	1,914699E+08	5,471178E+08	9,885657E+08	1,327218E+09	1,327187E+09	9,884904E+08	5,470545E+08
-2122	1,914389E+08	1,695131E+07	0,000000E+00	0,000000E+00	1,695104E+07	1,914412E+08	5,470591E+08	9,884719E+08	1,327132E+09	1,327146E+09	9,885084E+08	5,470967E+08
-2121	1,914770E+08	1,696344E+07	0,000000E+00	0,000000E+00	1,696236E+07	1,914684E+08	5,470802E+08	9,884675E+08	1,327094E+09	1,327100E+09	9,884749E+08	5,470736E+08
-2120	1,914539E+08	1,695829E+07	0,000000E+00	0,000000E+00	1,696417E+07	1,914818E+08	5,470999E+08	9,884884E+08	1,327091E+09	1,327053E+09	9,884075E+08	5,470451E+08
-2119	1,914617E+08	1,696318E+07	0,000000E+00	0,000000E+00	1,696069E+07	1,914492E+08	5,470364E+08	9,884074E+08	1,327046E+09	1,327064E+09	9,884605E+08	5,470941E+08
-2118	1,914895E+08	1,696952E+07	0,000000E+00	0,000000E+00	1,696961E+07	1,914841E+08	5,470818E+08	9,884455E+08	1,327049E+09	1,327039E+09	9,884154E+08	5,470440E+08
-2117	1,914528E+08	1,696167E+07	0,000000E+00	0,000000E+00	1,696373E+07	1,914661E+08	5,470581E+08	9,884248E+08	1,327038E+09	1,327031E+09	9,884160E+08	5,470625E+08
-2116	1,914771E+08	1,696763E+07	0,000000E+00	0,000000E+00	1,696197E+07	1,914518E+08	5,470327E+08	9,883919E+08	1,327030E+09	1,327068E+09	9,884756E+08	5,470970E+08
-2115	1,914786E+08	1,696542E+07	0,000000E+00	0,000000E+00	1,696765E+07	1,914881E+08	5,471013E+08	9,884811E+08	1,327087E+09	1,327071E+09	9,884301E+08	5,470434E+08
-2114	1,914470E+08	1,695672E+07	0,000000E+00	0,000000E+00	1,695568E+07	1,914516E+08	5,470652E+08	9,884641E+08	1,327103E+09	1,327107E+09	9,884821E+08	5,470894E+08
-2113	1,914751E+08	1,696223E+07	0,000000E+00	0,000000E+00	1,695748E+07	1,914554E+08	5,470764E+08	9,884957E+08	1,327152E+09	1,327159E+09	9,885147E+08	5,470915E+08
-2112	1,914538E+08	1,695426E+07	0,000000E+00	0,000000E+00	1,695730E+07	1,914706E+08	5,471151E+08	9,885644E+08	1,327221E+09	1,327189E+09	9,884901E+08	5,470571E+08
-2111	1,914408E+08	1,694976E+07	0,000000E+00	0,000000E+00	1,694661E+07	1,914308E+08	5,470603E+08	9,885146E+08	1,327221E+09	1,327245E+09	9,885760E+08	5,471159E+08
-2110	1,914668E+08	1,695542E+07	0,000000E+00	0,000000E+00	1,695416E+07	1,914599E+08	5,471061E+08	9,885609E+08	1,327236E+09	1,327244E+09	9,885643E+08	5,470884E+08
-2109	1,914327E+08	1,694508E+07	0,000000E+00	0,000000E+00	1,694866E+07	1,914528E+08	5,471068E+08	9,885735E+08	1,327245E+09	1,327226E+09	9,885357E+08	5,470861E+08
-2108	1,914485E+08	1,694988E+07	0,000000E+00	0,000000E+00	1,694610E+07	1,914301E+08	5,470637E+08	9,885164E+08	1,327211E+09	1,327238E+09	9,885819E+08	5,471263E+08
-2107	1,914684E+08	1,695472E+07	0,000000E+00	0,000000E+00	1,695597E+07	1,914680E+08	5,471156E+08	9,885625E+08	1,327217E+09	1,327198E+09	9,885111E+08	5,470637E+08
-2106	1,914363E+08	1,694862E+07	0,000000E+00	0,000000E+00	1,694969E+07	1,914460E+08	5,470771E+08	9,885077E+08	1,327162E+09	1,327152E+09	9,884947E+08	5,470817E+08
-2105	1,914669E+08	1,696062E+07	0,000000E+00	0,000000E+00	1,695700E+07	1,914482E+08	5,470556E+08	9,884567E+08	1,327110E+09	1,327125E+09	9,884965E+08	5,470918E+08
-2104	1,914652E+08	1,695986E+07	0,000000E+00	0,000000E+00	1,696517E+07	1,914852E+08	5,471013E+08	9,884861E+08	1,327093E+09	1,327065E+09	9,884116E+08	5,470339E+08
-2103	1,914491E+08	1,695974E+07	0,000000E+00	0,000000E+00	1,696087E+07	1,914561E+08	5,470463E+08	9,884092E+08	1,327028E+09	1,327035E+09	9,884354E+08	5,470799E+08
-2102	1,914885E+08	1,697155E+07	0,000000E+00	0,000000E+00	1,697032E+07	1,914785E+08	5,470649E+08	9,884062E+08	1,326996E+09	1,326996E+09	9,884056E+08	5,470579E+08
-2101	1,914669E+08	1,696677E+07	0,000000E+00	0,000000E+00	1,697132E+07	1,914863E+08	5,470713E+08	9,884094E+08	1,326983E+09	1,326950E+09	9,883407E+08	5,470288E+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	1,914749E+08	1,697209E+07	0,000000E+00	0,000000E+00	1,696800E+07	1,914563E+08	5,470103E+08	9,883251E+08	1,326930E+09	1,326960E+09	9,883984E+08	5,470791E+08
-2099	1,915013E+08	1,697803E+07	0,000000E+00	0,000000E+00	1,697709E+07	1,914928E+08	5,470594E+08	9,883676E+08	1,326938E+09	1,326939E+09	9,883548E+08	5,470298E+08
-2098	1,914639E+08	1,696955E+07	0,000000E+00	0,000000E+00	1,697169E+07	1,914801E+08	5,470484E+08	9,883598E+08	1,326929E+09	1,326920E+09	9,883455E+08	5,470427E+08
-2097	1,914837E+08	1,697419E+07	0,000000E+00	0,000000E+00	1,696954E+07	1,914645E+08	5,470262E+08	9,883438E+08	1,326942E+09	1,326967E+09	9,884025E+08	5,470757E+08
-2096	1,914864E+08	1,697166E+07	0,000000E+00	0,000000E+00	1,697437E+07	1,914974E+08	5,470903E+08	9,884332E+08	1,327010E+09	1,326987E+09	9,883685E+08	5,470242E+08
-2095	1,914545E+08	1,696312E+07	0,000000E+00	0,000000E+00	1,696221E+07	1,914589E+08	5,470510E+08	9,884207E+08	1,327042E+09	1,327039E+09	9,884311E+08	5,470723E+08
-2094	1,914813E+08	1,696824E+07	0,000000E+00	0,000000E+00	1,696348E+07	1,914615E+08	5,470593E+08	9,884418E+08	1,327078E+09	1,327091E+09	9,884698E+08	5,470780E+08
-2093	1,914608E+08	1,696030E+07	0,000000E+00	0,000000E+00	1,696334E+07	1,914755E+08	5,470898E+08	9,884902E+08	1,327122E+09	1,327104E+09	9,884417E+08	5,470460E+08
-2092	1,914497E+08	1,695635E+07	0,000000E+00	0,000000E+00	1,695344E+07	1,914409E+08	5,470446E+08	9,884437E+08	1,327107E+09	1,327143E+09	9,885209E+08	5,471069E+08
-2091	1,914787E+08	1,696276E+07	0,000000E+00	0,000000E+00	1,696104E+07	1,914683E+08	5,470898E+08	9,884949E+08	1,327130E+09	1,327138E+09	9,884999E+08	5,470764E+08
-2090	1,914466E+08	1,695329E+07	0,000000E+00	0,000000E+00	1,695622E+07	1,914638E+08	5,470925E+08	9,885069E+08	1,327134E+09	1,327106E+09	9,884544E+08	5,470630E+08
-2089	1,914586E+08	1,695832E+07	0,000000E+00	0,000000E+00	1,695447E+07	1,914407E+08	5,470466E+08	9,884497E+08	1,327107E+09	1,327124E+09	9,884957E+08	5,470986E+08
-2088	1,914783E+08	1,696314E+07	0,000000E+00	0,000000E+00	1,696482E+07	1,914795E+08	5,470949E+08	9,884858E+08	1,327105E+09	1,327089E+09	9,884345E+08	5,470383E+08
-2087	1,914446E+08	1,695711E+07	0,000000E+00	0,000000E+00	1,695949E+07	1,914610E+08	5,470630E+08	9,884423E+08	1,327061E+09	1,327047E+09	9,884247E+08	5,470609E+08
-2086	1,914747E+08	1,696828E+07	0,000000E+00	0,000000E+00	1,696599E+07	1,914628E+08	5,470455E+08	9,883945E+08	1,327006E+09	1,327020E+09	9,884293E+08	5,470755E+08
-2085	1,914758E+08	1,696778E+07	0,000000E+00	0,000000E+00	1,697321E+07	1,914939E+08	5,470801E+08	9,884117E+08	1,326980E+09	1,326952E+09	9,883415E+08	5,470190E+08
-2084	1,914632E+08	1,696887E+07	0,000000E+00	0,000000E+00	1,696889E+07	1,914650E+08	5,470249E+08	9,883325E+08	1,326912E+09	1,326923E+09	9,883670E+08	5,470664E+08
-2083	1,915043E+08	1,698125E+07	0,000000E+00	0,000000E+00	1,697790E+07	1,914835E+08	5,470354E+08	9,883228E+08	1,326883E+09	1,326890E+09	9,883374E+08	5,470421E+08
-2082	1,914819E+08	1,697662E+07	0,000000E+00	0,000000E+00	1,697993E+07	1,914960E+08	5,470442E+08	9,883188E+08	1,326854E+09	1,326828E+09	9,882642E+08	5,470069E+08
-2081	1,914844E+08	1,698072E+07	0,000000E+00	0,000000E+00	1,697702E+07	1,914693E+08	5,469909E+08	9,882446E+08	1,326808E+09	1,326839E+09	9,883180E+08	5,470562E+08
-2080	1,915096E+08	1,698540E+07	0,000000E+00	0,000000E+00	1,698553E+07	1,915059E+08	5,470456E+08	9,882977E+08	1,326824E+09	1,326827E+09	9,882828E+08	5,470102E+08
-2079	1,914721E+08	1,697654E+07	0,000000E+00	0,000000E+00	1,697966E+07	1,914928E+08	5,470423E+08	9,883172E+08	1,326848E+09	1,326826E+09	9,882810E+08	5,470245E+08
-2078	1,914907E+08	1,698020E+07	0,000000E+00	0,000000E+00	1,697579E+07	1,914733E+08	5,470182E+08	9,883046E+08	1,326875E+09	1,326890E+09	9,883459E+08	5,470586E+08
-2077	1,914941E+08	1,697795E+07	0,000000E+00	0,000000E+00	1,697987E+07	1,915006E+08	5,470685E+08	9,883755E+08	1,326932E+09	1,326914E+09	9,883200E+08	5,470107E+08
-2076	1,914635E+08	1,696988E+07	0,000000E+00	0,000000E+00	1,696830E+07	1,914658E+08	5,470323E+08	9,883573E+08	1,326953E+09	1,326964E+09	9,883885E+08	5,470619E+08
-2075	1,914904E+08	1,697501E+07	0,000000E+00	0,000000E+00	1,696973E+07	1,914685E+08	5,470408E+08	9,883772E+08	1,326986E+09	1,327009E+09	9,884237E+08	5,470692E+08
-2074	1,914712E+08	1,696715E+07	0,000000E+00	0,000000E+00	1,697047E+07	1,914872E+08	5,470781E+08	9,884271E+08	1,327016E+09	1,326998E+09	9,883774E+08	5,470304E+08
-2073	1,914578E+08	1,696300E+07	0,000000E+00	0,000000E+00	1,696097E+07	1,914528E+08	5,470351E+08	9,883897E+08	1,327011E+09	1,327033E+09	9,884426E+08	5,470852E+08
-2072	1,914880E+08	1,696975E+07	0,000000E+00	0,000000E+00	1,696841E+07	1,914776E+08	5,470742E+08	9,884341E+08	1,327035E+09	1,327036E+09	9,884272E+08	5,470546E+08
-2071	1,914562E+08	1,696112E+07	0,000000E+00	0,000000E+00	1,696430E+07	1,914735E+08	5,470767E+08	9,884516E+08	1,327048E+09	1,327011E+09	9,883857E+08	5,470403E+08
-2070	1,914658E+08	1,696577E+07	0,000000E+00	0,000000E+00	1,696247E+07	1,914507E+08	5,470279E+08	9,883830E+08	1,327009E+09	1,327028E+09	9,884303E+08	5,470777E+08
-2069	1,914862E+08	1,697093E+07	0,000000E+00	0,000000E+00	1,697283E+07	1,914883E+08	5,470699E+08	9,884017E+08	1,326985E+09	1,326979E+09	9,883700E+08	5,470237E+08
-2068	1,914563E+08	1,696572E+07	0,000000E+00	0,000000E+00	1,696819E+07	1,914732E+08	5,470452E+08	9,883614E+08	1,326933E+09	1,326929E+09	9,883574E+08	5,470483E+08
-2067	1,914893E+08	1,697755E+07	0,000000E+00	0,000000E+00	1,697406E+07	1,914712E+08	5,470237E+08	9,883177E+08	1,326888E+09	1,326903E+09	9,883576E+08	5,470623E+08
-2066	1,914927E+08	1,697788E+07	0,000000E+00	0,000000E+00	1,698194E+07	1,915041E+08	5,470565E+08	9,883290E+08	1,326854E+09	1,326823E+09	9,882574E+08	5,469977E+08
-2065	1,914766E+08	1,697884E+07	0,000000E+00	0,000000E+00	1,697817E+07	1,914757E+08	5,470009E+08	9,882506E+08	1,326791E+09	1,326798E+09	9,882780E+08	5,470408E+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°
-2064	1,915157E+08	1,699032E+07	0,000000E+00	0,000000E+00	1,698721E+07	1,914951E+08	5,470108E+08	9,882363E+08	1,326758E+09	1,326773E+09	9,882611E+08	5,470191E+08
-2063	1,914907E+08	1,698504E+07	0,000000E+00	0,000000E+00	1,698962E+07	1,915112E+08	5,470322E+08	9,882553E+08	1,326747E+09	1,326718E+09	9,881930E+08	5,469858E+08
-2062	1,914902E+08	1,698728E+07	0,000000E+00	0,000000E+00	1,698522E+07	1,914840E+08	5,469861E+08	9,881948E+08	1,326716E+09	1,326740E+09	9,882512E+08	5,470364E+08
-2061	1,915160E+08	1,699169E+07	0,000000E+00	0,000000E+00	1,699218E+07	1,915142E+08	5,470323E+08	9,882442E+08	1,326738E+09	1,326734E+09	9,882225E+08	5,469953E+08
-2060	1,914818E+08	1,698346E+07	0,000000E+00	0,000000E+00	1,698588E+07	1,915005E+08	5,470292E+08	9,882649E+08	1,326769E+09	1,326748E+09	9,882295E+08	5,470115E+08
-2059	1,915012E+08	1,698738E+07	0,000000E+00	0,000000E+00	1,698135E+07	1,914764E+08	5,469964E+08	9,882464E+08	1,326799E+09	1,326820E+09	9,883003E+08	5,470478E+08
-2058	1,915049E+08	1,698542E+07	0,000000E+00	0,000000E+00	1,698654E+07	1,915076E+08	5,470453E+08	9,883032E+08	1,326833E+09	1,326822E+09	9,882655E+08	5,469968E+08
-2057	1,914712E+08	1,697668E+07	0,000000E+00	0,000000E+00	1,697559E+07	1,914762E+08	5,470158E+08	9,882904E+08	1,326851E+09	1,326863E+09	9,883235E+08	5,470466E+08
-2056	1,914989E+08	1,698131E+07	0,000000E+00	0,000000E+00	1,697689E+07	1,914783E+08	5,470254E+08	9,883118E+08	1,326881E+09	1,326906E+09	9,883611E+08	5,470549E+08
-2055	1,914806E+08	1,697391E+07	0,000000E+00	0,000000E+00	1,697765E+07	1,914969E+08	5,470684E+08	9,883816E+08	1,326932E+09	1,326899E+09	9,883110E+08	5,470131E+08
-2054	1,914661E+08	1,696956E+07	0,000000E+00	0,000000E+00	1,696758E+07	1,914614E+08	5,470232E+08	9,883414E+08	1,326933E+09	1,326944E+09	9,883756E+08	5,470639E+08
-2053	1,914962E+08	1,697706E+07	0,000000E+00	0,000000E+00	1,697490E+07	1,914823E+08	5,470489E+08	9,883633E+08	1,326938E+09	1,326941E+09	9,883633E+08	5,470361E+08
-2052	1,914665E+08	1,696935E+07	0,000000E+00	0,000000E+00	1,697215E+07	1,914840E+08	5,470568E+08	9,883753E+08	1,326938E+09	1,326913E+09	9,883261E+08	5,470245E+08
-2051	1,914766E+08	1,697431E+07	0,000000E+00	0,000000E+00	1,697068E+07	1,914611E+08	5,470087E+08	9,883083E+08	1,326898E+09	1,326923E+09	9,883680E+08	5,470646E+08
-2050	1,914984E+08	1,697970E+07	0,000000E+00	0,000000E+00	1,698189E+07	1,915019E+08	5,470529E+08	9,883238E+08	1,326858E+09	1,326851E+09	9,882922E+08	5,470066E+08
-2049	1,914686E+08	1,697487E+07	0,000000E+00	0,000000E+00	1,697767E+07	1,914865E+08	5,470291E+08	9,882902E+08	1,326816E+09	1,326801E+09	9,882685E+08	5,470264E+08
-2048	1,915025E+08	1,698672E+07	0,000000E+00	0,000000E+00	1,698311E+07	1,914810E+08	5,469997E+08	9,882365E+08	1,326769E+09	1,326784E+09	9,882771E+08	5,470401E+08
-2047	1,915050E+08	1,698749E+07	0,000000E+00	0,000000E+00	1,699143E+07	1,915148E+08	5,470351E+08	9,882571E+08	1,326744E+09	1,326709E+09	9,881792E+08	5,469742E+08
-2046	1,914852E+08	1,698721E+07	0,000000E+00	0,000000E+00	1,698745E+07	1,914887E+08	5,469816E+08	9,881751E+08	1,326677E+09	1,326685E+09	9,882027E+08	5,470172E+08
-2045	1,915226E+08	1,699792E+07	0,000000E+00	0,000000E+00	1,699556E+07	1,915062E+08	5,469897E+08	9,881548E+08	1,326635E+09	1,326655E+09	9,881900E+08	5,470026E+08
-2044	1,915007E+08	1,699278E+07	0,000000E+00	0,000000E+00	1,699784E+07	1,915246E+08	5,470210E+08	9,881880E+08	1,326635E+09	1,326610E+09	9,881283E+08	5,469721E+08
-2043	1,915019E+08	1,699503E+07	0,000000E+00	0,000000E+00	1,699187E+07	1,914915E+08	5,469716E+08	9,881400E+08	1,326628E+09	1,326647E+09	9,881906E+08	5,470230E+08
-2042	1,915283E+08	1,699980E+07	0,000000E+00	0,000000E+00	1,699898E+07	1,915217E+08	5,470136E+08	9,881823E+08	1,326646E+09	1,326639E+09	9,881586E+08	5,469793E+08
-2041	1,914926E+08	1,699152E+07	0,000000E+00	0,000000E+00	1,699290E+07	1,915080E+08	5,470097E+08	9,882041E+08	1,326684E+09	1,326660E+09	9,881650E+08	5,469928E+08
-2040	1,915095E+08	1,699429E+07	0,000000E+00	0,000000E+00	1,698837E+07	1,914845E+08	5,469757E+08	9,881789E+08	1,326706E+09	1,326737E+09	9,882480E+08	5,470335E+08
-2039	1,915122E+08	1,699199E+07	0,000000E+00	0,000000E+00	1,699395E+07	1,915185E+08	5,470355E+08	9,882545E+08	1,326750E+09	1,326736E+09	9,882112E+08	5,469831E+08
-2038	1,914764E+08	1,698181E+07	0,000000E+00	0,000000E+00	1,698225E+07	1,914874E+08	5,470092E+08	9,882458E+08	1,326771E+09	1,326775E+09	9,882632E+08	5,470300E+08
-2037	1,915049E+08	1,698689E+07	0,000000E+00	0,000000E+00	1,698269E+07	1,914844E+08	5,470087E+08	9,882553E+08	1,326794E+09	1,326815E+09	9,883015E+08	5,470413E+08
-2036	1,914908E+08	1,698081E+07	0,000000E+00	0,000000E+00	1,698396E+07	1,915042E+08	5,470514E+08	9,883196E+08	1,326842E+09	1,326813E+09	9,882536E+08	5,469976E+08
-2035	1,914768E+08	1,697740E+07	0,000000E+00	0,000000E+00	1,697404E+07	1,914663E+08	5,469996E+08	9,882734E+08	1,326841E+09	1,326857E+09	9,883178E+08	5,470477E+08
-2034	1,915064E+08	1,698544E+07	0,000000E+00	0,000000E+00	1,698309E+07	1,914926E+08	5,470250E+08	9,882803E+08	1,326819E+09	1,326829E+09	9,882934E+08	5,470183E+08
-2033	1,914763E+08	1,697780E+07	0,000000E+00	0,000000E+00	1,698123E+07	1,914978E+08	5,470402E+08	9,882987E+08	1,326818E+09	1,326790E+09	9,882446E+08	5,470049E+08
-2032	1,914870E+08	1,698243E+07	0,000000E+00	0,000000E+00	1,697982E+07	1,914739E+08	5,469920E+08	9,882327E+08	1,326775E+09	1,326800E+09	9,882906E+08	5,470475E+08
-2031	1,915107E+08	1,698849E+07	0,000000E+00	0,000000E+00	1,699099E+07	1,915138E+08	5,470393E+08	9,882642E+08	1,326752E+09	1,326731E+09	9,882108E+08	5,469864E+08
-2030	1,914794E+08	1,698340E+07	0,000000E+00	0,000000E+00	1,698663E+07	1,914981E+08	5,470114E+08	9,882232E+08	1,326713E+09	1,326689E+09	9,881878E+08	5,470022E+08
-2029	1,915125E+08	1,699549E+07	0,000000E+00	0,000000E+00	1,699153E+07	1,914892E+08	5,469710E+08	9,881496E+08	1,326649E+09	1,326670E+09	9,882032E+08	5,470204E+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°
-2028	1,915164E+08	1,699655E+07	0,000000E+00	0,000000E+00	1,700054E+07	1,915277E+08	5,470141E+08	9,881710E+08	1,326620E+09	1,326598E+09	9,881103E+08	5,469566E+08
-2027	1,914965E+08	1,699605E+07	0,000000E+00	0,000000E+00	1,699592E+07	1,915003E+08	5,469650E+08	9,881023E+08	1,326564E+09	1,326575E+09	9,881339E+08	5,470012E+08
-2026	1,915337E+08	1,700632E+07	0,000000E+00	0,000000E+00	1,700402E+07	1,915188E+08	5,469746E+08	9,880850E+08	1,326521E+09	1,326534E+09	9,881117E+08	5,469846E+08
-2025	1,915125E+08	1,700137E+07	0,000000E+00	0,000000E+00	1,700589E+07	1,915357E+08	5,470079E+08	9,881303E+08	1,326541E+09	1,326502E+09	9,880503E+08	5,469524E+08
-2024	1,915131E+08	1,700297E+07	0,000000E+00	0,000000E+00	1,699917E+07	1,914986E+08	5,469512E+08	9,880761E+08	1,326539E+09	1,326559E+09	9,881294E+08	5,470058E+08
-2023	1,915380E+08	1,700772E+07	0,000000E+00	0,000000E+00	1,700636E+07	1,915288E+08	5,469952E+08	9,881265E+08	1,326563E+09	1,326556E+09	9,881029E+08	5,469635E+08
-2022	1,914994E+08	1,699806E+07	0,000000E+00	0,000000E+00	1,700018E+07	1,915177E+08	5,469925E+08	9,881417E+08	1,326597E+09	1,326579E+09	9,881116E+08	5,469770E+08
-2021	1,915147E+08	1,699999E+07	0,000000E+00	0,000000E+00	1,699473E+07	1,914920E+08	5,469550E+08	9,881073E+08	1,326603E+09	1,326643E+09	9,881937E+08	5,470229E+08
-2020	1,915209E+08	1,699810E+07	0,000000E+00	0,000000E+00	1,700030E+07	1,915276E+08	5,470219E+08	9,881921E+08	1,326652E+09	1,326644E+09	9,881559E+08	5,469723E+08
-2019	1,914875E+08	1,698856E+07	0,000000E+00	0,000000E+00	1,698785E+07	1,914931E+08	5,469940E+08	9,881931E+08	1,326688E+09	1,326686E+09	9,882035E+08	5,470159E+08
-2018	1,915156E+08	1,699430E+07	0,000000E+00	0,000000E+00	1,698927E+07	1,914916E+08	5,469887E+08	9,881900E+08	1,326698E+09	1,326714E+09	9,882316E+08	5,470230E+08
-2017	1,915014E+08	1,698891E+07	0,000000E+00	0,000000E+00	1,699151E+07	1,915143E+08	5,470341E+08	9,882546E+08	1,326746E+09	1,326713E+09	9,881817E+08	5,469768E+08
-2016	1,914852E+08	1,698494E+07	0,000000E+00	0,000000E+00	1,698232E+07	1,914780E+08	5,469821E+08	9,882024E+08	1,326736E+09	1,326758E+09	9,882541E+08	5,470294E+08
-2015	1,915138E+08	1,699292E+07	0,000000E+00	0,000000E+00	1,699189E+07	1,915068E+08	5,470177E+08	9,882270E+08	1,326721E+09	1,326723E+09	9,882240E+08	5,470005E+08
-2014	1,914836E+08	1,698465E+07	0,000000E+00	0,000000E+00	1,698985E+07	1,915120E+08	5,470318E+08	9,882446E+08	1,326724E+09	1,326686E+09	9,881704E+08	5,469837E+08
-2013	1,914953E+08	1,698987E+07	0,000000E+00	0,000000E+00	1,698763E+07	1,914826E+08	5,469708E+08	9,881616E+08	1,326670E+09	1,326690E+09	9,882177E+08	5,470307E+08
-2012	1,915235E+08	1,699720E+07	0,000000E+00	0,000000E+00	1,699909E+07	1,915224E+08	5,470151E+08	9,881833E+08	1,326641E+09	1,326628E+09	9,881419E+08	5,469697E+08
-2011	1,914935E+08	1,699311E+07	0,000000E+00	0,000000E+00	1,699493E+07	1,915052E+08	5,469827E+08	9,881374E+08	1,326595E+09	1,326580E+09	9,881174E+08	5,469846E+08
-2010	1,915252E+08	1,700514E+07	0,000000E+00	0,000000E+00	1,700092E+07	1,915013E+08	5,469436E+08	9,880520E+08	1,326507E+09	1,326537E+09	9,881215E+08	5,470018E+08
-2009	1,915291E+08	1,700614E+07	0,000000E+00	0,000000E+00	1,701013E+07	1,915423E+08	5,469969E+08	9,880882E+08	1,326487E+09	1,326462E+09	9,880226E+08	5,469361E+08
-2008	1,915083E+08	1,700478E+07	0,000000E+00	0,000000E+00	1,700485E+07	1,915127E+08	5,469491E+08	9,880304E+08	1,326447E+09	1,326455E+09	9,880561E+08	5,469819E+08
-2007	1,915449E+08	1,701494E+07	0,000000E+00	0,000000E+00	1,701230E+07	1,915298E+08	5,469641E+08	9,880352E+08	1,326431E+09	1,326430E+09	9,880364E+08	5,469638E+08
-2006	1,915219E+08	1,700918E+07	0,000000E+00	0,000000E+00	1,701372E+07	1,915453E+08	5,469920E+08	9,880741E+08	1,326460E+09	1,326416E+09	9,879844E+08	5,469302E+08
-2005	1,915201E+08	1,701010E+07	0,000000E+00	0,000000E+00	1,700617E+07	1,915054E+08	5,469269E+08	9,880047E+08	1,326444E+09	1,326474E+09	9,880757E+08	5,469918E+08
-2004	1,915464E+08	1,701457E+07	0,000000E+00	0,000000E+00	1,701359E+07	1,915390E+08	5,469773E+08	9,880556E+08	1,326466E+09	1,326475E+09	9,880553E+08	5,469533E+08
-2003	1,915085E+08	1,700455E+07	0,000000E+00	0,000000E+00	1,700658E+07	1,915261E+08	5,469782E+08	9,880825E+08	1,326505E+09	1,326492E+09	9,880602E+08	5,469667E+08
-2002	1,915238E+08	1,700622E+07	0,000000E+00	0,000000E+00	1,700131E+07	1,915015E+08	5,469407E+08	9,880456E+08	1,326503E+09	1,326539E+09	9,881279E+08	5,470088E+08
-2001	1,915316E+08	1,700513E+07	0,000000E+00	0,000000E+00	1,700667E+07	1,915361E+08	5,470087E+08	9,881380E+08	1,326565E+09	1,326546E+09	9,880845E+08	5,469534E+08
-2000	1,914971E+08	1,699552E+07	0,000000E+00	0,000000E+00	1,699439E+07	1,915001E+08	5,469762E+08	9,881337E+08	1,326602E+09	1,326600E+09	9,881417E+08	5,469962E+08
-1999	1,915232E+08	1,700157E+07	0,000000E+00	0,000000E+00	1,699674E+07	1,915011E+08	5,469757E+08	9,881380E+08	1,326613E+09	1,326625E+09	9,881674E+08	5,470021E+08
-1998	1,915070E+08	1,699546E+07	0,000000E+00	0,000000E+00	1,699955E+07	1,915273E+08	5,470219E+08	9,881946E+08	1,326654E+09	1,326622E+09	9,881183E+08	5,469567E+08
-1997	1,914905E+08	1,699133E+07	0,000000E+00	0,000000E+00	1,698994E+07	1,914887E+08	5,469653E+08	9,881322E+08	1,326627E+09	1,326654E+09	9,881912E+08	5,470164E+08
-1996	1,915243E+08	1,700016E+07	0,000000E+00	0,000000E+00	1,699948E+07	1,915170E+08	5,470014E+08	9,881575E+08	1,326616E+09	1,326622E+09	9,881597E+08	5,469884E+08
-1995	1,914982E+08	1,699339E+07	0,000000E+00	0,000000E+00	1,699707E+07	1,915182E+08	5,470091E+08	9,881742E+08	1,326622E+09	1,326584E+09	9,881020E+08	5,469687E+08
-1994	1,915102E+08	1,699955E+07	0,000000E+00	0,000000E+00	1,699605E+07	1,914906E+08	5,469410E+08	9,880710E+08	1,326543E+09	1,326568E+09	9,881370E+08	5,470113E+08
-1993	1,915385E+08	1,700758E+07	0,000000E+00	0,000000E+00	1,700829E+07	1,915335E+08	5,469891E+08	9,880934E+08	1,326512E+09	1,326500E+09	9,880568E+08	5,469475E+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	1,915059E+08	1,700280E+07	0,000000E+00	0,000000E+00	1,700497E+07	1,915195E+08	5,469618E+08	9,880499E+08	1,326462E+09	1,326454E+09	9,880375E+08	5,469629E+08
-1991	1,915349E+08	1,701404E+07	0,000000E+00	0,000000E+00	1,701081E+07	1,915176E+08	5,469359E+08	9,879893E+08	1,326390E+09	1,326409E+09	9,880353E+08	5,469779E+08
-1990	1,915377E+08	1,701408E+07	0,000000E+00	0,000000E+00	1,701951E+07	1,915581E+08	5,469891E+08	9,880315E+08	1,326388E+09	1,326351E+09	9,879426E+08	5,469114E+08
-1989	1,915163E+08	1,701248E+07	0,000000E+00	0,000000E+00	1,701279E+07	1,915220E+08	5,469304E+08	9,879640E+08	1,326349E+09	1,326355E+09	9,879871E+08	5,469631E+08
-1988	1,915549E+08	1,702280E+07	0,000000E+00	0,000000E+00	1,701982E+07	1,915378E+08	5,469422E+08	9,879643E+08	1,326338E+09	1,326348E+09	9,879798E+08	5,469492E+08
-1987	1,915339E+08	1,701754E+07	0,000000E+00	0,000000E+00	1,702087E+07	1,915512E+08	5,469667E+08	9,880017E+08	1,326365E+09	1,326334E+09	9,879339E+08	5,469180E+08
-1986	1,915301E+08	1,701752E+07	0,000000E+00	0,000000E+00	1,701371E+07	1,915147E+08	5,469029E+08	9,879214E+08	1,326326E+09	1,326367E+09	9,880138E+08	5,469799E+08
-1985	1,915573E+08	1,702191E+07	0,000000E+00	0,000000E+00	1,702068E+07	1,915491E+08	5,469623E+08	9,879877E+08	1,326355E+09	1,326363E+09	9,879869E+08	5,469397E+08
-1984	1,915190E+08	1,701126E+07	0,000000E+00	0,000000E+00	1,701326E+07	1,915346E+08	5,469642E+08	9,880238E+08	1,326407E+09	1,326391E+09	9,879954E+08	5,469503E+08
-1983	1,915329E+08	1,701300E+07	0,000000E+00	0,000000E+00	1,700778E+07	1,915105E+08	5,469340E+08	9,880058E+08	1,326425E+09	1,326446E+09	9,880581E+08	5,469868E+08
-1982	1,915387E+08	1,701160E+07	0,000000E+00	0,000000E+00	1,701347E+07	1,915457E+08	5,469976E+08	9,880908E+08	1,326494E+09	1,326469E+09	9,880230E+08	5,469297E+08
-1981	1,915019E+08	1,700174E+07	0,000000E+00	0,000000E+00	1,700105E+07	1,915086E+08	5,469587E+08	9,880727E+08	1,326516E+09	1,326520E+09	9,880883E+08	5,469792E+08
-1980	1,915292E+08	1,700778E+07	0,000000E+00	0,000000E+00	1,700403E+07	1,915125E+08	5,469623E+08	9,880757E+08	1,326524E+09	1,326547E+09	9,881180E+08	5,469901E+08
-1979	1,915167E+08	1,700239E+07	0,000000E+00	0,000000E+00	1,700634E+07	1,915359E+08	5,470081E+08	9,881369E+08	1,326563E+09	1,326534E+09	9,880640E+08	5,469454E+08
-1978	1,915014E+08	1,699874E+07	0,000000E+00	0,000000E+00	1,699752E+07	1,914980E+08	5,469458E+08	9,880603E+08	1,326516E+09	1,326542E+09	9,881201E+08	5,470027E+08
-1977	1,915390E+08	1,700910E+07	0,000000E+00	0,000000E+00	1,700708E+07	1,915248E+08	5,469790E+08	9,880824E+08	1,326503E+09	1,326505E+09	9,880819E+08	5,469702E+08
-1976	1,915123E+08	1,700278E+07	0,000000E+00	0,000000E+00	1,700563E+07	1,915261E+08	5,469812E+08	9,880875E+08	1,326500E+09	1,326469E+09	9,880279E+08	5,469480E+08
-1975	1,915222E+08	1,700925E+07	0,000000E+00	0,000000E+00	1,700576E+07	1,915038E+08	5,469226E+08	9,879930E+08	1,326418E+09	1,326442E+09	9,880524E+08	5,469859E+08
-1974	1,915473E+08	1,701618E+07	0,000000E+00	0,000000E+00	1,701844E+07	1,915499E+08	5,469735E+08	9,880129E+08	1,326385E+09	1,326373E+09	9,879713E+08	5,469204E+08
-1973	1,915131E+08	1,701088E+07	0,000000E+00	0,000000E+00	1,701438E+07	1,915338E+08	5,469461E+08	9,879719E+08	1,326334E+09	1,326325E+09	9,879559E+08	5,469422E+08
-1972	1,915449E+08	1,702205E+07	0,000000E+00	0,000000E+00	1,701956E+07	1,915305E+08	5,469216E+08	9,879216E+08	1,326283E+09	1,326300E+09	9,879608E+08	5,469591E+08
-1971	1,915509E+08	1,702306E+07	0,000000E+00	0,000000E+00	1,702715E+07	1,915653E+08	5,469689E+08	9,879667E+08	1,326292E+09	1,326255E+09	9,878774E+08	5,468953E+08
-1970	1,915294E+08	1,702155E+07	0,000000E+00	0,000000E+00	1,702091E+07	1,915298E+08	5,469035E+08	9,878825E+08	1,326237E+09	1,326250E+09	9,879201E+08	5,469476E+08
-1969	1,915685E+08	1,703192E+07	0,000000E+00	0,000000E+00	1,702765E+07	1,915466E+08	5,469185E+08	9,878854E+08	1,326226E+09	1,326242E+09	9,879144E+08	5,469340E+08
-1968	1,915451E+08	1,702565E+07	0,000000E+00	0,000000E+00	1,702897E+07	1,915616E+08	5,469474E+08	9,879270E+08	1,326254E+09	1,326232E+09	9,878743E+08	5,469038E+08
-1967	1,915391E+08	1,702456E+07	0,000000E+00	0,000000E+00	1,702137E+07	1,915276E+08	5,468979E+08	9,878720E+08	1,326229E+09	1,326260E+09	9,879423E+08	5,469600E+08
-1966	1,915640E+08	1,702794E+07	0,000000E+00	0,000000E+00	1,702775E+07	1,915606E+08	5,469553E+08	9,879424E+08	1,326275E+09	1,326270E+09	9,879190E+08	5,469169E+08
-1965	1,915246E+08	1,701718E+07	0,000000E+00	0,000000E+00	1,701932E+07	1,915417E+08	5,469496E+08	9,879715E+08	1,326328E+09	1,326308E+09	9,879368E+08	5,469321E+08
-1964	1,915397E+08	1,701914E+07	0,000000E+00	0,000000E+00	1,701403E+07	1,915176E+08	5,469167E+08	9,879499E+08	1,326352E+09	1,326379E+09	9,880086E+08	5,469706E+08
-1963	1,915476E+08	1,701871E+07	0,000000E+00	0,000000E+00	1,701974E+07	1,915518E+08	5,469779E+08	9,880297E+08	1,326411E+09	1,326396E+09	9,879791E+08	5,469187E+08
-1962	1,915108E+08	1,700862E+07	0,000000E+00	0,000000E+00	1,700826E+07	1,915179E+08	5,469383E+08	9,879971E+08	1,326406E+09	1,326420E+09	9,880305E+08	5,469683E+08
-1961	1,915404E+08	1,701526E+07	0,000000E+00	0,000000E+00	1,701107E+07	1,915218E+08	5,469466E+08	9,880085E+08	1,326415E+09	1,326435E+09	9,880513E+08	5,469778E+08
-1960	1,915295E+08	1,701029E+07	0,000000E+00	0,000000E+00	1,701373E+07	1,915438E+08	5,469888E+08	9,880686E+08	1,326456E+09	1,326425E+09	9,879961E+08	5,469299E+08
-1959	1,915139E+08	1,700727E+07	0,000000E+00	0,000000E+00	1,700564E+07	1,915083E+08	5,469320E+08	9,879988E+08	1,326410E+09	1,326425E+09	9,880375E+08	5,469787E+08
-1958	1,915494E+08	1,701760E+07	0,000000E+00	0,000000E+00	1,701598E+07	1,915365E+08	5,469597E+08	9,880093E+08	1,326395E+09	1,326396E+09	9,880034E+08	5,469431E+08
-1957	1,915201E+08	1,701111E+07	0,000000E+00	0,000000E+00	1,701491E+07	1,915391E+08	5,469601E+08	9,880042E+08	1,326375E+09	1,326351E+09	9,879523E+08	5,469254E+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												
-1956	1,915300E+08	1,701725E+07	0,000000E+00	0,000000E+00	1,701535E+07	1,915193E+08	5,469079E+08	9,879176E+08	1,326302E+09	1,326330E+09	9,879779E+08	5,469652E+08
-1955	1,915579E+08	1,702467E+07	0,000000E+00	0,000000E+00	1,702705E+07	1,915622E+08	5,469601E+08	9,879479E+08	1,326277E+09	1,326262E+09	9,878992E+08	5,469031E+08
-1954	1,915251E+08	1,701956E+07	0,000000E+00	0,000000E+00	1,702302E+07	1,915444E+08	5,469262E+08	9,878974E+08	1,326219E+09	1,326204E+09	9,878764E+08	5,469241E+08
-1953	1,915594E+08	1,703151E+07	0,000000E+00	0,000000E+00	1,702747E+07	1,915384E+08	5,468995E+08	9,878481E+08	1,326174E+09	1,326187E+09	9,878861E+08	5,469410E+08
-1952	1,915648E+08	1,703275E+07	0,000000E+00	0,000000E+00	1,703562E+07	1,915723E+08	5,469405E+08	9,878839E+08	1,326179E+09	1,326151E+09	9,878138E+08	5,468792E+08
-1951	1,915412E+08	1,703071E+07	0,000000E+00	0,000000E+00	1,702995E+07	1,915421E+08	5,468863E+08	9,878089E+08	1,326121E+09	1,326137E+09	9,878479E+08	5,469276E+08
-1950	1,915767E+08	1,703942E+07	0,000000E+00	0,000000E+00	1,703639E+07	1,915601E+08	5,469036E+08	9,878137E+08	1,326115E+09	1,326133E+09	9,878445E+08	5,469129E+08
-1949	1,915516E+08	1,703226E+07	0,000000E+00	0,000000E+00	1,703655E+07	1,915724E+08	5,469329E+08	9,878610E+08	1,326145E+09	1,326123E+09	9,878071E+08	5,468873E+08
-1948	1,915471E+08	1,703078E+07	0,000000E+00	0,000000E+00	1,702806E+07	1,915372E+08	5,468852E+08	9,878198E+08	1,326148E+09	1,326173E+09	9,878796E+08	5,469427E+08
-1947	1,915741E+08	1,703503E+07	0,000000E+00	0,000000E+00	1,703342E+07	1,915654E+08	5,469390E+08	9,878930E+08	1,326203E+09	1,326195E+09	9,878661E+08	5,469020E+08
-1946	1,915340E+08	1,702426E+07	0,000000E+00	0,000000E+00	1,702574E+07	1,915482E+08	5,469287E+08	9,879072E+08	1,326239E+09	1,326223E+09	9,878816E+08	5,469179E+08
-1945	1,915495E+08	1,702644E+07	0,000000E+00	0,000000E+00	1,702069E+07	1,915264E+08	5,469008E+08	9,878882E+08	1,326259E+09	1,326289E+09	9,879550E+08	5,469574E+08
-1944	1,915560E+08	1,702566E+07	0,000000E+00	0,000000E+00	1,702699E+07	1,915614E+08	5,469629E+08	9,879668E+08	1,326314E+09	1,326305E+09	9,879277E+08	5,469079E+08
-1943	1,915198E+08	1,701542E+07	0,000000E+00	0,000000E+00	1,701586E+07	1,915308E+08	5,469340E+08	9,879490E+08	1,326312E+09	1,326316E+09	9,879607E+08	5,469498E+08
-1942	1,915485E+08	1,702188E+07	0,000000E+00	0,000000E+00	1,701859E+07	1,915321E+08	5,469337E+08	9,879524E+08	1,326324E+09	1,326335E+09	9,879791E+08	5,469545E+08
-1941	1,915374E+08	1,701747E+07	0,000000E+00	0,000000E+00	1,702099E+07	1,915510E+08	5,469668E+08	9,879982E+08	1,326353E+09	1,326322E+09	9,879266E+08	5,469102E+08
-1940	1,915231E+08	1,701511E+07	0,000000E+00	0,000000E+00	1,701394E+07	1,915180E+08	5,469087E+08	9,879244E+08	1,326308E+09	1,326326E+09	9,879688E+08	5,469585E+08
-1939	1,915601E+08	1,702630E+07	0,000000E+00	0,000000E+00	1,702427E+07	1,915461E+08	5,469365E+08	9,879295E+08	1,326279E+09	1,326287E+09	9,879365E+08	5,469267E+08
-1938	1,915310E+08	1,701975E+07	0,000000E+00	0,000000E+00	1,702407E+07	1,915518E+08	5,469385E+08	9,879154E+08	1,326238E+09	1,326219E+09	9,878729E+08	5,469087E+08
-1937	1,915437E+08	1,702652E+07	0,000000E+00	0,000000E+00	1,702395E+07	1,915308E+08	5,468910E+08	9,878412E+08	1,326174E+09	1,326195E+09	9,878947E+08	5,469464E+08
-1936	1,915718E+08	1,703437E+07	0,000000E+00	0,000000E+00	1,703572E+07	1,915712E+08	5,469381E+08	9,878719E+08	1,326160E+09	1,326142E+09	9,878222E+08	5,468854E+08
-1935	1,915397E+08	1,702976E+07	0,000000E+00	0,000000E+00	1,703228E+07	1,915560E+08	5,469098E+08	9,878287E+08	1,326109E+09	1,326086E+09	9,877920E+08	5,468994E+08
-1934	1,915706E+08	1,704081E+07	0,000000E+00	0,000000E+00	1,703690E+07	1,915502E+08	5,468777E+08	9,877715E+08	1,326066E+09	1,326081E+09	9,878114E+08	5,469156E+08
-1933	1,915731E+08	1,704123E+07	0,000000E+00	0,000000E+00	1,704480E+07	1,915845E+08	5,469190E+08	9,878025E+08	1,326060E+09	1,326041E+09	9,877473E+08	5,468622E+08
-1932	1,915492E+08	1,703807E+07	0,000000E+00	0,000000E+00	1,703881E+07	1,915563E+08	5,468721E+08	9,877420E+08	1,326018E+09	1,326035E+09	9,877821E+08	5,469114E+08
-1931	1,915860E+08	1,704654E+07	0,000000E+00	0,000000E+00	1,704355E+07	1,915700E+08	5,468910E+08	9,877573E+08	1,326021E+09	1,326036E+09	9,877838E+08	5,468996E+08
-1930	1,915616E+08	1,703922E+07	0,000000E+00	0,000000E+00	1,704332E+07	1,915802E+08	5,469152E+08	9,877975E+08	1,326048E+09	1,326023E+09	9,877414E+08	5,468720E+08
-1929	1,915583E+08	1,703823E+07	0,000000E+00	0,000000E+00	1,703395E+07	1,915428E+08	5,468679E+08	9,877624E+08	1,326062E+09	1,326083E+09	9,878193E+08	5,469259E+08
-1928	1,915835E+08	1,704271E+07	0,000000E+00	0,000000E+00	1,704010E+07	1,915712E+08	5,469170E+08	9,878293E+08	1,326117E+09	1,326115E+09	9,878163E+08	5,468893E+08
-1927	1,915432E+08	1,703156E+07	0,000000E+00	0,000000E+00	1,703320E+07	1,915598E+08	5,469181E+08	9,878498E+08	1,326146E+09	1,326129E+09	9,878191E+08	5,468998E+08
-1926	1,915552E+08	1,703249E+07	0,000000E+00	0,000000E+00	1,702821E+07	1,915387E+08	5,468908E+08	9,878315E+08	1,326166E+09	1,326195E+09	9,878931E+08	5,469390E+08
-1925	1,915618E+08	1,703153E+07	0,000000E+00	0,000000E+00	1,703381E+07	1,915703E+08	5,469489E+08	9,879081E+08	1,326216E+09	1,326204E+09	9,878656E+08	5,468940E+08
-1924	1,915281E+08	1,702169E+07	0,000000E+00	0,000000E+00	1,702271E+07	1,915391E+08	5,469174E+08	9,878937E+08	1,326231E+09	1,326226E+09	9,878963E+08	5,469332E+08
-1923	1,915597E+08	1,702965E+07	0,000000E+00	0,000000E+00	1,702512E+07	1,915373E+08	5,469112E+08	9,878880E+08	1,326235E+09	1,326247E+09	9,879198E+08	5,469396E+08
-1922	1,915488E+08	1,702573E+07	0,000000E+00	0,000000E+00	1,702865E+07	1,915584E+08	5,469392E+08	9,879138E+08	1,326237E+09	1,326213E+09	9,878578E+08	5,468937E+08
-1921	1,915355E+08	1,702411E+07	0,000000E+00	0,000000E+00	1,702227E+07	1,915294E+08	5,468893E+08	9,878456E+08	1,326186E+09	1,326206E+09	9,878950E+08	5,469397E+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												
-1920	1,915706E+08	1,703523E+07	0,000000E+00	0,000000E+00	1,703334E+07	1,915584E+08	5,469189E+08	9,878533E+08	1,326158E+09	1,326165E+09	9,878616E+08	5,469099E+08
-1919	1,915430E+08	1,702878E+07	0,000000E+00	0,000000E+00	1,703369E+07	1,915680E+08	5,469314E+08	9,878534E+08	1,326123E+09	1,326088E+09	9,877821E+08	5,468833E+08
-1918	1,915536E+08	1,703518E+07	0,000000E+00	0,000000E+00	1,703340E+07	1,915442E+08	5,468764E+08	9,877750E+08	1,326069E+09	1,326081E+09	9,878107E+08	5,469189E+08
-1917	1,915808E+08	1,704314E+07	0,000000E+00	0,000000E+00	1,704471E+07	1,915810E+08	5,469142E+08	9,877927E+08	1,326046E+09	1,326031E+09	9,877487E+08	5,468655E+08
-1916	1,915503E+08	1,703877E+07	0,000000E+00	0,000000E+00	1,704197E+07	1,915675E+08	5,468840E+08	9,877485E+08	1,326003E+09	1,325985E+09	9,877240E+08	5,468814E+08
-1915	1,915819E+08	1,704971E+07	0,000000E+00	0,000000E+00	1,704567E+07	1,915610E+08	5,468538E+08	9,876888E+08	1,325949E+09	1,325976E+09	9,877487E+08	5,469021E+08
-1914	1,915838E+08	1,704935E+07	0,000000E+00	0,000000E+00	1,705327E+07	1,915955E+08	5,468970E+08	9,877173E+08	1,325930E+09	1,325917E+09	9,876745E+08	5,468493E+08
-1913	1,915625E+08	1,704628E+07	0,000000E+00	0,000000E+00	1,704613E+07	1,915659E+08	5,468573E+08	9,876756E+08	1,325904E+09	1,325913E+09	9,877069E+08	5,468948E+08
-1912	1,915975E+08	1,705462E+07	0,000000E+00	0,000000E+00	1,705039E+07	1,915764E+08	5,468716E+08	9,876944E+08	1,325924E+09	1,325934E+09	9,877163E+08	5,468843E+08
-1911	1,915735E+08	1,704748E+07	0,000000E+00	0,000000E+00	1,705067E+07	1,915906E+08	5,469041E+08	9,877433E+08	1,325960E+09	1,325926E+09	9,876704E+08	5,468494E+08
-1910	1,915658E+08	1,704536E+07	0,000000E+00	0,000000E+00	1,704148E+07	1,915535E+08	5,468536E+08	9,877055E+08	1,325979E+09	1,326001E+09	9,877586E+08	5,469022E+08
-1909	1,915873E+08	1,704893E+07	0,000000E+00	0,000000E+00	1,704739E+07	1,915817E+08	5,469027E+08	9,877687E+08	1,326026E+09	1,326030E+09	9,877642E+08	5,468762E+08
-1908	1,915491E+08	1,703730E+07	0,000000E+00	0,000000E+00	1,704038E+07	1,915711E+08	5,469074E+08	9,878020E+08	1,326073E+09	1,326051E+09	9,877657E+08	5,468870E+08
-1907	1,915631E+08	1,703845E+07	0,000000E+00	0,000000E+00	1,703413E+07	1,915455E+08	5,468770E+08	9,877823E+08	1,326090E+09	1,326115E+09	9,878409E+08	5,469286E+08
-1906	1,915717E+08	1,703809E+07	0,000000E+00	0,000000E+00	1,703968E+07	1,915744E+08	5,469255E+08	9,878405E+08	1,326120E+09	1,326109E+09	9,878038E+08	5,468820E+08
-1905	1,915411E+08	1,702970E+07	0,000000E+00	0,000000E+00	1,702899E+07	1,915440E+08	5,468938E+08	9,878224E+08	1,326126E+09	1,326124E+09	9,878310E+08	5,469166E+08
-1904	1,915710E+08	1,703846E+07	0,000000E+00	0,000000E+00	1,703302E+07	1,915446E+08	5,468837E+08	9,878050E+08	1,326121E+09	1,326141E+09	9,878551E+08	5,469249E+08
-1903	1,915607E+08	1,703466E+07	0,000000E+00	0,000000E+00	1,703807E+07	1,915744E+08	5,469258E+08	9,878358E+08	1,326111E+09	1,326086E+09	9,877744E+08	5,468703E+08
-1902	1,915440E+08	1,703231E+07	0,000000E+00	0,000000E+00	1,703204E+07	1,915458E+08	5,468779E+08	9,877745E+08	1,326067E+09	1,326081E+09	9,878086E+08	5,469123E+08
-1901	1,915778E+08	1,704312E+07	0,000000E+00	0,000000E+00	1,704242E+07	1,915714E+08	5,469040E+08	9,877834E+08	1,326041E+09	1,326040E+09	9,877788E+08	5,468892E+08
-1900	1,915537E+08	1,703734E+07	0,000000E+00	0,000000E+00	1,704285E+07	1,915796E+08	5,469129E+08	9,877895E+08	1,326029E+09	1,325982E+09	9,877033E+08	5,468616E+08
-1899	1,915657E+08	1,704449E+07	0,000000E+00	0,000000E+00	1,704197E+07	1,915532E+08	5,468530E+08	9,877018E+08	1,325967E+09	1,325981E+09	9,877443E+08	5,469027E+08
-1898	1,915931E+08	1,705237E+07	0,000000E+00	0,000000E+00	1,705359E+07	1,915904E+08	5,468853E+08	9,877009E+08	1,325919E+09	1,325916E+09	9,876793E+08	5,468517E+08
-1897	1,915642E+08	1,704826E+07	0,000000E+00	0,000000E+00	1,705087E+07	1,915794E+08	5,468634E+08	9,876644E+08	1,325872E+09	1,325863E+09	9,876529E+08	5,468664E+08
-1896	1,915940E+08	1,705861E+07	0,000000E+00	0,000000E+00	1,705435E+07	1,915723E+08	5,468345E+08	9,876113E+08	1,325828E+09	1,325857E+09	9,876772E+08	5,468887E+08
-1895	1,915968E+08	1,705792E+07	0,000000E+00	0,000000E+00	1,706174E+07	1,916092E+08	5,468870E+08	9,876538E+08	1,325819E+09	1,325793E+09	9,875880E+08	5,468250E+08
-1894	1,915719E+08	1,705404E+07	0,000000E+00	0,000000E+00	1,705392E+07	1,915766E+08	5,468437E+08	9,876178E+08	1,325813E+09	1,325813E+09	9,876293E+08	5,468667E+08
-1893	1,916034E+08	1,706175E+07	0,000000E+00	0,000000E+00	1,705760E+07	1,915842E+08	5,468528E+08	9,876325E+08	1,325835E+09	1,325844E+09	9,876533E+08	5,468653E+08
-1892	1,915807E+08	1,705449E+07	0,000000E+00	0,000000E+00	1,705828E+07	1,916001E+08	5,468854E+08	9,876862E+08	1,325886E+09	1,325853E+09	9,876178E+08	5,468338E+08
-1891	1,915729E+08	1,705184E+07	0,000000E+00	0,000000E+00	1,704820E+07	1,915629E+08	5,468385E+08	9,876465E+08	1,325895E+09	1,325926E+09	9,877143E+08	5,468932E+08
-1890	1,915950E+08	1,705487E+07	0,000000E+00	0,000000E+00	1,705359E+07	1,915887E+08	5,468843E+08	9,877014E+08	1,325924E+09	1,325935E+09	9,877100E+08	5,468692E+08
-1889	1,915613E+08	1,704413E+07	0,000000E+00	0,000000E+00	1,704599E+07	1,915768E+08	5,468910E+08	9,877428E+08	1,325976E+09	1,325953E+09	9,877058E+08	5,468750E+08
-1888	1,915747E+08	1,704601E+07	0,000000E+00	0,000000E+00	1,704028E+07	1,915498E+08	5,468535E+08	9,877160E+08	1,325997E+09	1,326021E+09	9,877798E+08	5,469159E+08
-1887	1,915845E+08	1,704634E+07	0,000000E+00	0,000000E+00	1,704715E+07	1,915843E+08	5,469085E+08	9,877727E+08	1,326018E+09	1,326003E+09	9,877279E+08	5,468586E+08
-1886	1,915498E+08	1,703755E+07	0,000000E+00	0,000000E+00	1,703769E+07	1,915576E+08	5,468788E+08	9,877538E+08	1,326022E+09	1,326019E+09	9,877559E+08	5,468891E+08
-1885	1,915757E+08	1,704560E+07	0,000000E+00	0,000000E+00	1,704206E+07	1,915595E+08	5,468715E+08	9,877356E+08	1,326007E+09	1,326028E+09	9,877815E+08	5,469050E+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	1,915681E+08	1,704184E+07	0,000000E+00	0,000000E+00	1,704733E+07	1,915901E+08	5,469169E+08	9,877805E+08	1,326017E+09	1,325981E+09	9,877004E+08	5,468503E+08
-1883	1,915532E+08	1,704001E+07	0,000000E+00	0,000000E+00	1,704025E+07	1,915574E+08	5,468651E+08	9,877163E+08	1,325974E+09	1,325981E+09	9,877395E+08	5,468947E+08
-1882	1,915883E+08	1,705122E+07	0,000000E+00	0,000000E+00	1,705012E+07	1,915784E+08	5,468788E+08	9,877053E+08	1,325931E+09	1,325931E+09	9,877065E+08	5,468742E+08
-1881	1,915693E+08	1,704720E+07	0,000000E+00	0,000000E+00	1,705102E+07	1,915865E+08	5,468852E+08	9,877054E+08	1,325909E+09	1,325871E+09	9,876336E+08	5,468452E+08
-1880	1,915798E+08	1,705478E+07	0,000000E+00	0,000000E+00	1,705115E+07	1,915616E+08	5,468207E+08	9,876051E+08	1,325835E+09	1,325863E+09	9,876749E+08	5,468901E+08
-1879	1,916080E+08	1,706237E+07	0,000000E+00	0,000000E+00	1,706346E+07	1,916056E+08	5,468661E+08	9,876101E+08	1,325777E+09	1,325777E+09	9,875918E+08	5,468305E+08
-1878	1,915761E+08	1,705734E+07	0,000000E+00	0,000000E+00	1,706067E+07	1,915945E+08	5,468483E+08	9,875861E+08	1,325742E+09	1,325729E+09	9,875626E+08	5,468392E+08
-1877	1,916026E+08	1,706664E+07	0,000000E+00	0,000000E+00	1,706284E+07	1,915837E+08	5,468180E+08	9,875403E+08	1,325711E+09	1,325732E+09	9,875931E+08	5,468666E+08
-1876	1,916073E+08	1,706611E+07	0,000000E+00	0,000000E+00	1,706991E+07	1,916192E+08	5,468698E+08	9,875971E+08	1,325736E+09	1,325699E+09	9,875159E+08	5,468030E+08
-1875	1,915816E+08	1,706200E+07	0,000000E+00	0,000000E+00	1,706111E+07	1,915848E+08	5,468256E+08	9,875590E+08	1,325733E+09	1,325736E+09	9,875745E+08	5,468496E+08
-1874	1,916108E+08	1,706878E+07	0,000000E+00	0,000000E+00	1,706455E+07	1,915921E+08	5,468316E+08	9,875626E+08	1,325739E+09	1,325758E+09	9,876013E+08	5,468543E+08
-1873	1,915913E+08	1,706181E+07	0,000000E+00	0,000000E+00	1,706505E+07	1,916094E+08	5,468716E+08	9,876248E+08	1,325788E+09	1,325764E+09	9,875681E+08	5,468235E+08
-1872	1,915820E+08	1,705860E+07	0,000000E+00	0,000000E+00	1,705487E+07	1,915712E+08	5,468236E+08	9,875882E+08	1,325804E+09	1,325836E+09	9,876615E+08	5,468852E+08
-1871	1,916063E+08	1,706169E+07	0,000000E+00	0,000000E+00	1,706031E+07	1,915991E+08	5,468737E+08	9,876452E+08	1,325831E+09	1,325834E+09	9,876399E+08	5,468502E+08
-1870	1,915704E+08	1,705092E+07	0,000000E+00	0,000000E+00	1,705287E+07	1,915854E+08	5,468757E+08	9,876844E+08	1,325888E+09	1,325861E+09	9,876354E+08	5,468495E+08
-1869	1,915806E+08	1,705267E+07	0,000000E+00	0,000000E+00	1,704761E+07	1,915582E+08	5,468336E+08	9,876485E+08	1,325898E+09	1,325925E+09	9,877146E+08	5,468965E+08
-1868	1,915923E+08	1,705347E+07	0,000000E+00	0,000000E+00	1,705542E+07	1,915959E+08	5,468909E+08	9,877100E+08	1,325929E+09	1,325912E+09	9,876642E+08	5,468394E+08
-1867	1,915571E+08	1,704455E+07	0,000000E+00	0,000000E+00	1,704568E+07	1,915708E+08	5,468674E+08	9,876915E+08	1,325923E+09	1,325923E+09	9,876943E+08	5,468733E+08
-1866	1,915831E+08	1,705235E+07	0,000000E+00	0,000000E+00	1,704958E+07	1,915696E+08	5,468556E+08	9,876664E+08	1,325894E+09	1,325914E+09	9,877106E+08	5,468909E+08
-1865	1,915816E+08	1,705021E+07	0,000000E+00	0,000000E+00	1,705448E+07	1,915979E+08	5,468991E+08	9,877127E+08	1,325907E+09	1,325869E+09	9,876297E+08	5,468342E+08
-1864	1,915673E+08	1,704963E+07	0,000000E+00	0,000000E+00	1,704821E+07	1,915637E+08	5,468382E+08	9,876376E+08	1,325864E+09	1,325874E+09	9,876700E+08	5,468809E+08
-1863	1,916046E+08	1,706143E+07	0,000000E+00	0,000000E+00	1,705918E+07	1,915894E+08	5,468539E+08	9,876167E+08	1,325804E+09	1,325808E+09	9,876232E+08	5,468510E+08
-1862	1,915824E+08	1,705726E+07	0,000000E+00	0,000000E+00	1,706126E+07	1,916006E+08	5,468625E+08	9,876163E+08	1,325779E+09	1,325747E+09	9,875503E+08	5,468189E+08
-1861	1,915890E+08	1,706370E+07	0,000000E+00	0,000000E+00	1,706139E+07	1,915772E+08	5,468029E+08	9,875206E+08	1,325700E+09	1,325731E+09	9,875922E+08	5,468698E+08
-1860	1,916184E+08	1,707077E+07	0,000000E+00	0,000000E+00	1,707316E+07	1,916201E+08	5,468521E+08	9,875456E+08	1,325670E+09	1,325657E+09	9,875088E+08	5,468078E+08
-1859	1,915861E+08	1,706551E+07	0,000000E+00	0,000000E+00	1,706903E+07	1,916065E+08	5,468354E+08	9,875254E+08	1,325644E+09	1,325624E+09	9,874892E+08	5,468179E+08
-1858	1,916112E+08	1,707420E+07	0,000000E+00	0,000000E+00	1,707001E+07	1,915906E+08	5,467960E+08	9,874691E+08	1,325608E+09	1,325630E+09	9,875235E+08	5,468481E+08
-1857	1,916196E+08	1,707478E+07	0,000000E+00	0,000000E+00	1,707714E+07	1,916262E+08	5,468480E+08	9,875259E+08	1,325633E+09	1,325607E+09	9,874598E+08	5,467879E+08
-1856	1,915922E+08	1,707047E+07	0,000000E+00	0,000000E+00	1,706886E+07	1,915932E+08	5,468024E+08	9,874846E+08	1,325632E+09	1,325647E+09	9,875231E+08	5,468402E+08
-1855	1,916218E+08	1,707632E+07	0,000000E+00	0,000000E+00	1,707239E+07	1,916053E+08	5,468193E+08	9,874941E+08	1,325629E+09	1,325651E+09	9,875343E+08	5,468382E+08
-1854	1,916009E+08	1,706876E+07	0,000000E+00	0,000000E+00	1,707252E+07	1,916204E+08	5,468605E+08	9,875672E+08	1,325691E+09	1,325663E+09	9,874994E+08	5,468030E+08
-1853	1,915889E+08	1,706465E+07	0,000000E+00	0,000000E+00	1,706152E+07	1,915794E+08	5,468091E+08	9,875317E+08	1,325711E+09	1,325737E+09	9,875947E+08	5,468680E+08
-1852	1,916152E+08	1,706832E+07	0,000000E+00	0,000000E+00	1,706699E+07	1,916059E+08	5,468564E+08	9,875951E+08	1,325759E+09	1,325753E+09	9,875789E+08	5,468310E+08
-1851	1,915786E+08	1,705772E+07	0,000000E+00	0,000000E+00	1,705954E+07	1,915939E+08	5,468596E+08	9,876270E+08	1,325807E+09	1,325784E+09	9,875829E+08	5,468322E+08
-1850	1,915865E+08	1,705901E+07	0,000000E+00	0,000000E+00	1,705442E+07	1,915671E+08	5,468155E+08	9,875799E+08	1,325797E+09	1,325832E+09	9,876568E+08	5,468824E+08
-1849	1,916029E+08	1,706091E+07	0,000000E+00	0,000000E+00	1,706253E+07	1,916066E+08	5,468788E+08	9,876470E+08	1,325824E+09	1,325813E+09	9,876064E+08	5,468266E+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	1,915682E+08	1,705247E+07	0,000000E+00	0,000000E+00	1,705313E+07	1,915798E+08	5,468508E+08	9,876279E+08	1,325822E+09	1,325820E+09	9,876294E+08	5,468608E+08
-1847	1,915963E+08	1,706074E+07	0,000000E+00	0,000000E+00	1,705744E+07	1,915803E+08	5,468393E+08	9,875970E+08	1,325785E+09	1,325798E+09	9,876294E+08	5,468687E+08
-1846	1,915944E+08	1,705944E+07	0,000000E+00	0,000000E+00	1,706304E+07	1,916070E+08	5,468764E+08	9,876362E+08	1,325795E+09	1,325758E+09	9,875493E+08	5,468078E+08
-1845	1,915772E+08	1,705879E+07	0,000000E+00	0,000000E+00	1,705781E+07	1,915743E+08	5,468109E+08	9,875481E+08	1,325736E+09	1,325754E+09	9,875932E+08	5,468608E+08
-1844	1,916164E+08	1,707082E+07	0,000000E+00	0,000000E+00	1,706943E+07	1,916028E+08	5,468301E+08	9,875331E+08	1,325684E+09	1,325691E+09	9,875467E+08	5,468305E+08
-1843	1,915932E+08	1,706617E+07	0,000000E+00	0,000000E+00	1,707115E+07	1,916160E+08	5,468462E+08	9,875355E+08	1,325651E+09	1,325624E+09	9,874741E+08	5,467997E+08
-1842	1,915987E+08	1,707182E+07	0,000000E+00	0,000000E+00	1,707002E+07	1,915887E+08	5,467844E+08	9,874411E+08	1,325570E+09	1,325597E+09	9,875077E+08	5,468505E+08
-1841	1,916325E+08	1,707988E+07	0,000000E+00	0,000000E+00	1,708099E+07	1,916291E+08	5,468337E+08	9,874736E+08	1,325553E+09	1,325538E+09	9,874318E+08	5,467879E+08
-1840	1,915993E+08	1,707513E+07	0,000000E+00	0,000000E+00	1,707710E+07	1,916143E+08	5,468125E+08	9,874540E+08	1,325541E+09	1,325521E+09	9,874203E+08	5,468011E+08
-1839	1,916239E+08	1,708320E+07	0,000000E+00	0,000000E+00	1,707849E+07	1,916029E+08	5,467781E+08	9,873957E+08	1,325500E+09	1,325524E+09	9,874508E+08	5,468255E+08
-1838	1,916293E+08	1,708329E+07	0,000000E+00	0,000000E+00	1,708600E+07	1,916395E+08	5,468338E+08	9,874584E+08	1,325530E+09	1,325509E+09	9,873944E+08	5,467670E+08
-1837	1,915987E+08	1,707731E+07	0,000000E+00	0,000000E+00	1,707719E+07	1,916063E+08	5,467911E+08	9,874237E+08	1,325531E+09	1,325547E+09	9,874621E+08	5,468262E+08
-1836	1,916301E+08	1,708265E+07	0,000000E+00	0,000000E+00	1,707966E+07	1,916150E+08	5,468083E+08	9,874501E+08	1,325556E+09	1,325565E+09	9,874739E+08	5,468217E+08
-1835	1,916089E+08	1,707485E+07	0,000000E+00	0,000000E+00	1,707858E+07	1,916277E+08	5,468475E+08	9,875194E+08	1,325618E+09	1,325586E+09	9,874459E+08	5,467874E+08
-1834	1,915957E+08	1,707043E+07	0,000000E+00	0,000000E+00	1,706684E+07	1,915829E+08	5,467876E+08	9,874697E+08	1,325623E+09	1,325651E+09	9,875386E+08	5,468536E+08
-1833	1,916258E+08	1,707557E+07	0,000000E+00	0,000000E+00	1,707288E+07	1,916105E+08	5,468337E+08	9,875257E+08	1,325660E+09	1,325667E+09	9,875298E+08	5,468183E+08
-1832	1,915887E+08	1,706549E+07	0,000000E+00	0,000000E+00	1,706663E+07	1,916023E+08	5,468390E+08	9,875555E+08	1,325704E+09	1,325691E+09	9,875299E+08	5,468224E+08
-1831	1,915974E+08	1,706645E+07	0,000000E+00	0,000000E+00	1,706229E+07	1,915805E+08	5,468034E+08	9,875100E+08	1,325682E+09	1,325716E+09	9,875820E+08	5,468622E+08
-1830	1,916130E+08	1,706881E+07	0,000000E+00	0,000000E+00	1,707051E+07	1,916178E+08	5,468659E+08	9,875840E+08	1,325717E+09	1,325699E+09	9,875278E+08	5,468038E+08
-1829	1,915776E+08	1,706029E+07	0,000000E+00	0,000000E+00	1,706134E+07	1,915896E+08	5,468326E+08	9,875610E+08	1,325717E+09	1,325708E+09	9,875528E+08	5,468405E+08
-1828	1,916077E+08	1,706931E+07	0,000000E+00	0,000000E+00	1,706596E+07	1,915887E+08	5,468173E+08	9,875322E+08	1,325691E+09	1,325697E+09	9,875564E+08	5,468463E+08
-1827	1,916049E+08	1,706820E+07	0,000000E+00	0,000000E+00	1,707205E+07	1,916187E+08	5,468556E+08	9,875600E+08	1,325685E+09	1,325655E+09	9,874833E+08	5,467884E+08
-1826	1,915857E+08	1,706704E+07	0,000000E+00	0,000000E+00	1,706701E+07	1,915868E+08	5,467899E+08	9,874622E+08	1,325604E+09	1,325629E+09	9,875186E+08	5,468440E+08
-1825	1,916290E+08	1,707975E+07	0,000000E+00	0,000000E+00	1,707846E+07	1,916159E+08	5,468136E+08	9,874525E+08	1,325550E+09	1,325564E+09	9,874729E+08	5,468139E+08
-1824	1,916062E+08	1,707557E+07	0,000000E+00	0,000000E+00	1,708022E+07	1,916279E+08	5,468281E+08	9,874609E+08	1,325531E+09	1,325499E+09	9,873949E+08	5,467826E+08
-1823	1,916126E+08	1,708107E+07	0,000000E+00	0,000000E+00	1,707881E+07	1,916012E+08	5,467672E+08	9,873661E+08	1,325451E+09	1,325469E+09	9,874162E+08	5,468227E+08
-1822	1,916444E+08	1,708957E+07	0,000000E+00	0,000000E+00	1,708979E+07	1,916389E+08	5,468127E+08	9,873999E+08	1,325444E+09	1,325425E+09	9,873505E+08	5,467618E+08
-1821	1,916088E+08	1,708407E+07	0,000000E+00	0,000000E+00	1,708635E+07	1,916251E+08	5,467897E+08	9,873767E+08	1,325430E+09	1,325414E+09	9,873512E+08	5,467825E+08
-1820	1,916334E+08	1,709136E+07	0,000000E+00	0,000000E+00	1,708743E+07	1,916150E+08	5,467614E+08	9,873326E+08	1,325405E+09	1,325428E+09	9,873886E+08	5,468089E+08
-1819	1,916377E+08	1,709053E+07	0,000000E+00	0,000000E+00	1,709400E+07	1,916518E+08	5,468222E+08	9,873982E+08	1,325433E+09	1,325415E+09	9,873392E+08	5,467544E+08
-1818	1,916062E+08	1,708348E+07	0,000000E+00	0,000000E+00	1,708343E+07	1,916129E+08	5,467739E+08	9,873612E+08	1,325432E+09	1,325446E+09	9,874006E+08	5,468145E+08
-1817	1,916423E+08	1,708986E+07	0,000000E+00	0,000000E+00	1,708514E+07	1,916187E+08	5,467872E+08	9,873864E+08	1,325462E+09	1,325477E+09	9,874199E+08	5,468095E+08
-1816	1,916211E+08	1,708285E+07	0,000000E+00	0,000000E+00	1,708460E+07	1,916311E+08	5,468218E+08	9,874514E+08	1,325528E+09	1,325501E+09	9,873917E+08	5,467754E+08
-1815	1,916070E+08	1,707806E+07	0,000000E+00	0,000000E+00	1,707388E+07	1,915929E+08	5,467690E+08	9,873992E+08	1,325520E+09	1,325551E+09	9,874711E+08	5,468324E+08
-1814	1,916341E+08	1,708324E+07	0,000000E+00	0,000000E+00	1,708082E+07	1,916229E+08	5,468218E+08	9,874637E+08	1,325560E+09	1,325566E+09	9,874623E+08	5,467982E+08
-1813	1,915950E+08	1,707205E+07	0,000000E+00	0,000000E+00	1,707484E+07	1,916159E+08	5,468307E+08	9,874998E+08	1,325605E+09	1,325586E+09	9,874621E+08	5,468051E+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°
-1812	1,916051E+08	1,707306E+07	0,000000E+00	0,000000E+00	1,707016E+07	1,915920E+08	5,467955E+08	9,874679E+08	1,325605E+09	1,325622E+09	9,875139E+08	5,468415E+08
-1811	1,916205E+08	1,707568E+07	0,000000E+00	0,000000E+00	1,707785E+07	1,916273E+08	5,468524E+08	9,875293E+08	1,325633E+09	1,325610E+09	9,874661E+08	5,467851E+08
-1810	1,915850E+08	1,706751E+07	0,000000E+00	0,000000E+00	1,706863E+07	1,915958E+08	5,468078E+08	9,874863E+08	1,325611E+09	1,325606E+09	9,874868E+08	5,468240E+08
-1809	1,916202E+08	1,707818E+07	0,000000E+00	0,000000E+00	1,707408E+07	1,915965E+08	5,467892E+08	9,874441E+08	1,325569E+09	1,325591E+09	9,874952E+08	5,468325E+08
-1808	1,916180E+08	1,707778E+07	0,000000E+00	0,000000E+00	1,708115E+07	1,916297E+08	5,468303E+08	9,874705E+08	1,325555E+09	1,325533E+09	9,874128E+08	5,467764E+08
-1807	1,915999E+08	1,707637E+07	0,000000E+00	0,000000E+00	1,707669E+07	1,916023E+08	5,467732E+08	9,873770E+08	1,325462E+09	1,325483E+09	9,874249E+08	5,468204E+08
-1806	1,916422E+08	1,708945E+07	0,000000E+00	0,000000E+00	1,708773E+07	1,916283E+08	5,467969E+08	9,873770E+08	1,325423E+09	1,325424E+09	9,873770E+08	5,467876E+08
-1805	1,916178E+08	1,708498E+07	0,000000E+00	0,000000E+00	1,708965E+07	1,916393E+08	5,468082E+08	9,873860E+08	1,325413E+09	1,325373E+09	9,873075E+08	5,467586E+08
-1804	1,916245E+08	1,709054E+07	0,000000E+00	0,000000E+00	1,708805E+07	1,916117E+08	5,467477E+08	9,873021E+08	1,325355E+09	1,325366E+09	9,873401E+08	5,467969E+08
-1803	1,916528E+08	1,709828E+07	0,000000E+00	0,000000E+00	1,709892E+07	1,916518E+08	5,467955E+08	9,873309E+08	1,325345E+09	1,325333E+09	9,872905E+08	5,467442E+08
-1802	1,916163E+08	1,709176E+07	0,000000E+00	0,000000E+00	1,709475E+07	1,916364E+08	5,467720E+08	9,873050E+08	1,325322E+09	1,325312E+09	9,872907E+08	5,467705E+08
-1801	1,916445E+08	1,709893E+07	0,000000E+00	0,000000E+00	1,709478E+07	1,916242E+08	5,467445E+08	9,872646E+08	1,325299E+09	1,325331E+09	9,873333E+08	5,467987E+08
-1800	1,916497E+08	1,709843E+07	0,000000E+00	0,000000E+00	1,710075E+07	1,916582E+08	5,468024E+08	9,873348E+08	1,325339E+09	1,325320E+09	9,872811E+08	5,467451E+08
-1799	1,916188E+08	1,709094E+07	0,000000E+00	0,000000E+00	1,709006E+07	1,916208E+08	5,467544E+08	9,872930E+08	1,325329E+09	1,325340E+09	9,873271E+08	5,467930E+08
-1798	1,916521E+08	1,709770E+07	0,000000E+00	0,000000E+00	1,709204E+07	1,916252E+08	5,467656E+08	9,873177E+08	1,325363E+09	1,325378E+09	9,873512E+08	5,467887E+08
-1797	1,916285E+08	1,709003E+07	0,000000E+00	0,000000E+00	1,709254E+07	1,916415E+08	5,468026E+08	9,873818E+08	1,325427E+09	1,325404E+09	9,873296E+08	5,467586E+08
-1796	1,916141E+08	1,708469E+07	0,000000E+00	0,000000E+00	1,708183E+07	1,916057E+08	5,467599E+08	9,873491E+08	1,325434E+09	1,325459E+09	9,874080E+08	5,468123E+08
-1795	1,916388E+08	1,708920E+07	0,000000E+00	0,000000E+00	1,708834E+07	1,916361E+08	5,468168E+08	9,874166E+08	1,325475E+09	1,325475E+09	9,874028E+08	5,467823E+08
-1794	1,916010E+08	1,707790E+07	0,000000E+00	0,000000E+00	1,708115E+07	1,916235E+08	5,468171E+08	9,874465E+08	1,325516E+09	1,325488E+09	9,873969E+08	5,467902E+08
-1793	1,916159E+08	1,708038E+07	0,000000E+00	0,000000E+00	1,707644E+07	1,915971E+08	5,467744E+08	9,874031E+08	1,325512E+09	1,325533E+09	9,874566E+08	5,468280E+08
-1792	1,916330E+08	1,708443E+07	0,000000E+00	0,000000E+00	1,708498E+07	1,916324E+08	5,468248E+08	9,874530E+08	1,325532E+09	1,325517E+09	9,874078E+08	5,467740E+08
-1791	1,915985E+08	1,707652E+07	0,000000E+00	0,000000E+00	1,707745E+07	1,916079E+08	5,467841E+08	9,873988E+08	1,325484E+09	1,325485E+09	9,874087E+08	5,468034E+08
-1790	1,916324E+08	1,708778E+07	0,000000E+00	0,000000E+00	1,708366E+07	1,916102E+08	5,467702E+08	9,873607E+08	1,325438E+09	1,325460E+09	9,874118E+08	5,468125E+08
-1789	1,916293E+08	1,708669E+07	0,000000E+00	0,000000E+00	1,709114E+07	1,916444E+08	5,468138E+08	9,873930E+08	1,325427E+09	1,325398E+09	9,873253E+08	5,467555E+08
-1788	1,916119E+08	1,708544E+07	0,000000E+00	0,000000E+00	1,708624E+07	1,916155E+08	5,467605E+08	9,873181E+08	1,325359E+09	1,325361E+09	9,873351E+08	5,467921E+08
-1787	1,916510E+08	1,709818E+07	0,000000E+00	0,000000E+00	1,709673E+07	1,916403E+08	5,467808E+08	9,873107E+08	1,325320E+09	1,325316E+09	9,872988E+08	5,467631E+08
-1786	1,916263E+08	1,709365E+07	0,000000E+00	0,000000E+00	1,709817E+07	1,916477E+08	5,467826E+08	9,873059E+08	1,325299E+09	1,325263E+09	9,872354E+08	5,467395E+08
-1785	1,916364E+08	1,709980E+07	0,000000E+00	0,000000E+00	1,709686E+07	1,916218E+08	5,467220E+08	9,872147E+08	1,325237E+09	1,325266E+09	9,872820E+08	5,467842E+08
-1784	1,916653E+08	1,710759E+07	0,000000E+00	0,000000E+00	1,710769E+07	1,916625E+08	5,467724E+08	9,872473E+08	1,325225E+09	1,325224E+09	9,872297E+08	5,467363E+08
-1783	1,916302E+08	1,710034E+07	0,000000E+00	0,000000E+00	1,710334E+07	1,916488E+08	5,467536E+08	9,872259E+08	1,325196E+09	1,325186E+09	9,872118E+08	5,467530E+08
-1782	1,916574E+08	1,710747E+07	0,000000E+00	0,000000E+00	1,710235E+07	1,916327E+08	5,467255E+08	9,871960E+08	1,325191E+09	1,325213E+09	9,872540E+08	5,467794E+08
-1781	1,916603E+08	1,710623E+07	0,000000E+00	0,000000E+00	1,710820E+07	1,916656E+08	5,467810E+08	9,872672E+08	1,325238E+09	1,325215E+09	9,872088E+08	5,467257E+08
-1780	1,916284E+08	1,709842E+07	0,000000E+00	0,000000E+00	1,709745E+07	1,916301E+08	5,467404E+08	9,872421E+08	1,325249E+09	1,325252E+09	9,872604E+08	5,467684E+08
-1779	1,916563E+08	1,710403E+07	0,000000E+00	0,000000E+00	1,709963E+07	1,916383E+08	5,467567E+08	9,872653E+08	1,325281E+09	1,325297E+09	9,872963E+08	5,467706E+08
-1778	1,916320E+08	1,709555E+07	0,000000E+00	0,000000E+00	1,709944E+07	1,916530E+08	5,467940E+08	9,873297E+08	1,325340E+09	1,325316E+09	9,872742E+08	5,467455E+08
-1777	1,916218E+08	1,709061E+07	0,000000E+00	0,000000E+00	1,708823E+07	1,916154E+08	5,467501E+08	9,872983E+08	1,325354E+09	1,325381E+09	9,873582E+08	5,468009E+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	1,916483E+08	1,709606E+07	0,000000E+00	0,000000E+00	1,709434E+07	1,916419E+08	5,468001E+08	9,873633E+08	1,325397E+09	1,325394E+09	9,873494E+08	5,467734E+08
-1775	1,916135E+08	1,708539E+07	0,000000E+00	0,000000E+00	1,708767E+07	1,916297E+08	5,467946E+08	9,873770E+08	1,325418E+09	1,325389E+09	9,873276E+08	5,467716E+08
-1774	1,916277E+08	1,708916E+07	0,000000E+00	0,000000E+00	1,708396E+07	1,916031E+08	5,467470E+08	9,873236E+08	1,325402E+09	1,325427E+09	9,873860E+08	5,468104E+08
-1773	1,916440E+08	1,709308E+07	0,000000E+00	0,000000E+00	1,709399E+07	1,916429E+08	5,467985E+08	9,873649E+08	1,325407E+09	1,325399E+09	9,873358E+08	5,467581E+08
-1772	1,916102E+08	1,708526E+07	0,000000E+00	0,000000E+00	1,708720E+07	1,916229E+08	5,467706E+08	9,873281E+08	1,325365E+09	1,325361E+09	9,873260E+08	5,467795E+08
-1771	1,916406E+08	1,709588E+07	0,000000E+00	0,000000E+00	1,709317E+07	1,916260E+08	5,467596E+08	9,872924E+08	1,325320E+09	1,325335E+09	9,873287E+08	5,467901E+08
-1770	1,916386E+08	1,709485E+07	0,000000E+00	0,000000E+00	1,709966E+07	1,916552E+08	5,467954E+08	9,873205E+08	1,325310E+09	1,325273E+09	9,872397E+08	5,467338E+08
-1769	1,916247E+08	1,709478E+07	0,000000E+00	0,000000E+00	1,709468E+07	1,916242E+08	5,467361E+08	9,872379E+08	1,325247E+09	1,325254E+09	9,872613E+08	5,467713E+08
-1768	1,916634E+08	1,710817E+07	0,000000E+00	0,000000E+00	1,710542E+07	1,916489E+08	5,467538E+08	9,872280E+08	1,325208E+09	1,325211E+09	9,872315E+08	5,467484E+08
-1767	1,916402E+08	1,710347E+07	0,000000E+00	0,000000E+00	1,710795E+07	1,916613E+08	5,467600E+08	9,872175E+08	1,325170E+09	1,325141E+09	9,871578E+08	5,467198E+08
-1766	1,916485E+08	1,710935E+07	0,000000E+00	0,000000E+00	1,710642E+07	1,916354E+08	5,467045E+08	9,871359E+08	1,325112E+09	1,325141E+09	9,872046E+08	5,467678E+08
-1765	1,916765E+08	1,711593E+07	0,000000E+00	0,000000E+00	1,711682E+07	1,916752E+08	5,467557E+08	9,871757E+08	1,325109E+09	1,325105E+09	9,871536E+08	5,467205E+08
-1764	1,916424E+08	1,710842E+07	0,000000E+00	0,000000E+00	1,711150E+07	1,916596E+08	5,467413E+08	9,871721E+08	1,325104E+09	1,325081E+09	9,871338E+08	5,467279E+08
-1763	1,916644E+08	1,711450E+07	0,000000E+00	0,000000E+00	1,710973E+07	1,916423E+08	5,467103E+08	9,871372E+08	1,325102E+09	1,325122E+09	9,871876E+08	5,467574E+08
-1762	1,916664E+08	1,711294E+07	0,000000E+00	0,000000E+00	1,711493E+07	1,916722E+08	5,467590E+08	9,871997E+08	1,325144E+09	1,325124E+09	9,871487E+08	5,467088E+08
-1761	1,916367E+08	1,710531E+07	0,000000E+00	0,000000E+00	1,710436E+07	1,916393E+08	5,467222E+08	9,871744E+08	1,325156E+09	1,325173E+09	9,872116E+08	5,467557E+08
-1760	1,916644E+08	1,711090E+07	0,000000E+00	0,000000E+00	1,710632E+07	1,916477E+08	5,467435E+08	9,872068E+08	1,325191E+09	1,325212E+09	9,872460E+08	5,467631E+08
-1759	1,916433E+08	1,710242E+07	0,000000E+00	0,000000E+00	1,710608E+07	1,916625E+08	5,467807E+08	9,872694E+08	1,325241E+09	1,325214E+09	9,872078E+08	5,467301E+08
-1758	1,916333E+08	1,709831E+07	0,000000E+00	0,000000E+00	1,709460E+07	1,916216E+08	5,467322E+08	9,872390E+08	1,325263E+09	1,325282E+09	9,872903E+08	5,467855E+08
-1757	1,916594E+08	1,710379E+07	0,000000E+00	0,000000E+00	1,710138E+07	1,916475E+08	5,467753E+08	9,872929E+08	1,325301E+09	1,325299E+09	9,872845E+08	5,467576E+08
-1756	1,916253E+08	1,709361E+07	0,000000E+00	0,000000E+00	1,709565E+07	1,916392E+08	5,467765E+08	9,873134E+08	1,325323E+09	1,325294E+09	9,872589E+08	5,467483E+08
-1755	1,916345E+08	1,709672E+07	0,000000E+00	0,000000E+00	1,709307E+07	1,916182E+08	5,467336E+08	9,872539E+08	1,325294E+09	1,325323E+09	9,873189E+08	5,467910E+08
-1754	1,916507E+08	1,710020E+07	0,000000E+00	0,000000E+00	1,710255E+07	1,916558E+08	5,467833E+08	9,872924E+08	1,325288E+09	1,325280E+09	9,872609E+08	5,467405E+08
-1753	1,916209E+08	1,709321E+07	0,000000E+00	0,000000E+00	1,709583E+07	1,916361E+08	5,467564E+08	9,872580E+08	1,325254E+09	1,325251E+09	9,872525E+08	5,467603E+08
-1752	1,916519E+08	1,710465E+07	0,000000E+00	0,000000E+00	1,710133E+07	1,916357E+08	5,467409E+08	9,872222E+08	1,325213E+09	1,325223E+09	9,872517E+08	5,467717E+08
-1751	1,916523E+08	1,710427E+07	0,000000E+00	0,000000E+00	1,710833E+07	1,916647E+08	5,467702E+08	9,872353E+08	1,325186E+09	1,325150E+09	9,871550E+08	5,467098E+08
-1750	1,916381E+08	1,710528E+07	0,000000E+00	0,000000E+00	1,710410E+07	1,916341E+08	5,467087E+08	9,871498E+08	1,325122E+09	1,325132E+09	9,871820E+08	5,467518E+08
-1749	1,916754E+08	1,711773E+07	0,000000E+00	0,000000E+00	1,711550E+07	1,916616E+08	5,467282E+08	9,871364E+08	1,325077E+09	1,325088E+09	9,871556E+08	5,467326E+08
-1748	1,916537E+08	1,711290E+07	0,000000E+00	0,000000E+00	1,711801E+07	1,916765E+08	5,467475E+08	9,871476E+08	1,325050E+09	1,325019E+09	9,870769E+08	5,466975E+08
-1747	1,916578E+08	1,711741E+07	0,000000E+00	0,000000E+00	1,711561E+07	1,916499E+08	5,466930E+08	9,870704E+08	1,325000E+09	1,325023E+09	9,871272E+08	5,467470E+08
-1746	1,916854E+08	1,712344E+07	0,000000E+00	0,000000E+00	1,712417E+07	1,916828E+08	5,467353E+08	9,871068E+08	1,325003E+09	1,324993E+09	9,870783E+08	5,467011E+08
-1745	1,916538E+08	1,711648E+07	0,000000E+00	0,000000E+00	1,711871E+07	1,916668E+08	5,467184E+08	9,870999E+08	1,325009E+09	1,324994E+09	9,870728E+08	5,467092E+08
-1744	1,916741E+08	1,712249E+07	0,000000E+00	0,000000E+00	1,711666E+07	1,916500E+08	5,466896E+08	9,870697E+08	1,325010E+09	1,325037E+09	9,871324E+08	5,467438E+08
-1743	1,916769E+08	1,712054E+07	0,000000E+00	0,000000E+00	1,712244E+07	1,916833E+08	5,467428E+08	9,871300E+08	1,325039E+09	1,325026E+09	9,870874E+08	5,466933E+08
-1742	1,916466E+08	1,711285E+07	0,000000E+00	0,000000E+00	1,711160E+07	1,916502E+08	5,467115E+08	9,871187E+08	1,325063E+09	1,325074E+09	9,871495E+08	5,467420E+08
-1741	1,916726E+08	1,711739E+07	0,000000E+00	0,000000E+00	1,711343E+07	1,916574E+08	5,467313E+08	9,871542E+08	1,325105E+09	1,325120E+09	9,871851E+08	5,467496E+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	1,916541E+08	1,710942E+07	0,000000E+00	0,000000E+00	1,711279E+07	1,916710E+08	5,467713E+08	9,872258E+08	1,325166E+09	1,325130E+09	9,871432E+08	5,467074E+08
-1739	1,916391E+08	1,710467E+07	0,000000E+00	0,000000E+00	1,710168E+07	1,916304E+08	5,467165E+08	9,871807E+08	1,325177E+09	1,325198E+09	9,872311E+08	5,467657E+08
-1738	1,916656E+08	1,711042E+07	0,000000E+00	0,000000E+00	1,710843E+07	1,916542E+08	5,467503E+08	9,872173E+08	1,325196E+09	1,325204E+09	9,872247E+08	5,467423E+08
-1737	1,916351E+08	1,710102E+07	0,000000E+00	0,000000E+00	1,710375E+07	1,916504E+08	5,467546E+08	9,872314E+08	1,325210E+09	1,325196E+09	9,871995E+08	5,467335E+08
-1736	1,916446E+08	1,710464E+07	0,000000E+00	0,000000E+00	1,710118E+07	1,916299E+08	5,467181E+08	9,871814E+08	1,325178E+09	1,325208E+09	9,872493E+08	5,467778E+08
-1735	1,916643E+08	1,710860E+07	0,000000E+00	0,000000E+00	1,711074E+07	1,916669E+08	5,467657E+08	9,872161E+08	1,325162E+09	1,325148E+09	9,871743E+08	5,467193E+08
-1734	1,916349E+08	1,710291E+07	0,000000E+00	0,000000E+00	1,710410E+07	1,916450E+08	5,467357E+08	9,871843E+08	1,325137E+09	1,325122E+09	9,871646E+08	5,467376E+08
-1733	1,916641E+08	1,711416E+07	0,000000E+00	0,000000E+00	1,711037E+07	1,916450E+08	5,467155E+08	9,871402E+08	1,325096E+09	1,325107E+09	9,871712E+08	5,467495E+08
-1732	1,916658E+08	1,711435E+07	0,000000E+00	0,000000E+00	1,711818E+07	1,916780E+08	5,467528E+08	9,871611E+08	1,325071E+09	1,325036E+09	9,870754E+08	5,466831E+08
-1731	1,916464E+08	1,711430E+07	0,000000E+00	0,000000E+00	1,711475E+07	1,916514E+08	5,466950E+08	9,870740E+08	1,325003E+09	1,325016E+09	9,871078E+08	5,467311E+08
-1730	1,916842E+08	1,712588E+07	0,000000E+00	0,000000E+00	1,712475E+07	1,916745E+08	5,467103E+08	9,870599E+08	1,324955E+09	1,324967E+09	9,870798E+08	5,467160E+08
-1729	1,916665E+08	1,712150E+07	0,000000E+00	0,000000E+00	1,712686E+07	1,916882E+08	5,467282E+08	9,870734E+08	1,324941E+09	1,324913E+09	9,870070E+08	5,466802E+08
-1728	1,916702E+08	1,712612E+07	0,000000E+00	0,000000E+00	1,712314E+07	1,916579E+08	5,466723E+08	9,870001E+08	1,324896E+09	1,324919E+09	9,870582E+08	5,467309E+08
-1727	1,916985E+08	1,713214E+07	0,000000E+00	0,000000E+00	1,713157E+07	1,916891E+08	5,467084E+08	9,870243E+08	1,324886E+09	1,324882E+09	9,870051E+08	5,466806E+08
-1726	1,916656E+08	1,712566E+07	0,000000E+00	0,000000E+00	1,712663E+07	1,916755E+08	5,466952E+08	9,870225E+08	1,324897E+09	1,324885E+09	9,870055E+08	5,466922E+08
-1725	1,916829E+08	1,713013E+07	0,000000E+00	0,000000E+00	1,712496E+07	1,916620E+08	5,466726E+08	9,869982E+08	1,324902E+09	1,324935E+09	9,870692E+08	5,467286E+08
-1724	1,916870E+08	1,712795E+07	0,000000E+00	0,000000E+00	1,713041E+07	1,916970E+08	5,467394E+08	9,870824E+08	1,324947E+09	1,324928E+09	9,870214E+08	5,466732E+08
-1723	1,916529E+08	1,711903E+07	0,000000E+00	0,000000E+00	1,711900E+07	1,916625E+08	5,467062E+08	9,870750E+08	1,324983E+09	1,324985E+09	9,870876E+08	5,467235E+08
-1722	1,916789E+08	1,712321E+07	0,000000E+00	0,000000E+00	1,711923E+07	1,916620E+08	5,467127E+08	9,870989E+08	1,325023E+09	1,325034E+09	9,871252E+08	5,467336E+08
-1721	1,916638E+08	1,711629E+07	0,000000E+00	0,000000E+00	1,711910E+07	1,916763E+08	5,467477E+08	9,871599E+08	1,325083E+09	1,325058E+09	9,870940E+08	5,466924E+08
-1720	1,916481E+08	1,711191E+07	0,000000E+00	0,000000E+00	1,710850E+07	1,916384E+08	5,466966E+08	9,871125E+08	1,325081E+09	1,325111E+09	9,871784E+08	5,467537E+08
-1719	1,916761E+08	1,711783E+07	0,000000E+00	0,000000E+00	1,711600E+07	1,916642E+08	5,467307E+08	9,871387E+08	1,325077E+09	1,325092E+09	9,871580E+08	5,467271E+08
-1718	1,916468E+08	1,710932E+07	0,000000E+00	0,000000E+00	1,711183E+07	1,916623E+08	5,467410E+08	9,871640E+08	1,325095E+09	1,325074E+09	9,871242E+08	5,467169E+08
-1717	1,916553E+08	1,711260E+07	0,000000E+00	0,000000E+00	1,710957E+07	1,916410E+08	5,467022E+08	9,871151E+08	1,325070E+09	1,325091E+09	9,871685E+08	5,467564E+08
-1716	1,916771E+08	1,711757E+07	0,000000E+00	0,000000E+00	1,711917E+07	1,916781E+08	5,467537E+08	9,871562E+08	1,325060E+09	1,325035E+09	9,870899E+08	5,466905E+08
-1715	1,916433E+08	1,711165E+07	0,000000E+00	0,000000E+00	1,711349E+07	1,916571E+08	5,467174E+08	9,871131E+08	1,325030E+09	1,325013E+09	9,870876E+08	5,467115E+08
-1714	1,916718E+08	1,712262E+07	0,000000E+00	0,000000E+00	1,711953E+07	1,916553E+08	5,466893E+08	9,870540E+08	1,324974E+09	1,324992E+09	9,870987E+08	5,467303E+08
-1713	1,916772E+08	1,712348E+07	0,000000E+00	0,000000E+00	1,712816E+07	1,916919E+08	5,467298E+08	9,870720E+08	1,324947E+09	1,324927E+09	9,870092E+08	5,466679E+08
-1712	1,916588E+08	1,712356E+07	0,000000E+00	0,000000E+00	1,712414E+07	1,916648E+08	5,466778E+08	9,869952E+08	1,324877E+09	1,324894E+09	9,870348E+08	5,467181E+08
-1711	1,916994E+08	1,713511E+07	0,000000E+00	0,000000E+00	1,713325E+07	1,916837E+08	5,466861E+08	9,869744E+08	1,324823E+09	1,324834E+09	9,869956E+08	5,466972E+08
-1710	1,916822E+08	1,713174E+07	0,000000E+00	0,000000E+00	1,713518E+07	1,916961E+08	5,467033E+08	9,869928E+08	1,324820E+09	1,324785E+09	9,869239E+08	5,466600E+08
-1709	1,916824E+08	1,713534E+07	0,000000E+00	0,000000E+00	1,713169E+07	1,916670E+08	5,466477E+08	9,869209E+08	1,324783E+09	1,324807E+09	9,869819E+08	5,467090E+08
-1708	1,917099E+08	1,714112E+07	0,000000E+00	0,000000E+00	1,714039E+07	1,917027E+08	5,466977E+08	9,869615E+08	1,324781E+09	1,324776E+09	9,869326E+08	5,466556E+08
-1707	1,916709E+08	1,713283E+07	0,000000E+00	0,000000E+00	1,713565E+07	1,916919E+08	5,466903E+08	9,869687E+08	1,324802E+09	1,324787E+09	9,869412E+08	5,466717E+08
-1706	1,916872E+08	1,713588E+07	0,000000E+00	0,000000E+00	1,713224E+07	1,916733E+08	5,466641E+08	9,869484E+08	1,324816E+09	1,324843E+09	9,870090E+08	5,467133E+08
-1705	1,916953E+08	1,713427E+07	0,000000E+00	0,000000E+00	1,713716E+07	1,917057E+08	5,467251E+08	9,870310E+08	1,324875E+09	1,324856E+09	9,869709E+08	5,466597E+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												
-1704	1,916619E+08	1,712563E+07	0,000000E+00	0,000000E+00	1,712461E+07	1,916672E+08	5,466882E+08	9,870211E+08	1,324907E+09	1,324910E+09	9,870379E+08	5,467121E+08
-1703	1,916898E+08	1,713029E+07	0,000000E+00	0,000000E+00	1,712499E+07	1,916641E+08	5,466834E+08	9,870228E+08	1,324922E+09	1,324942E+09	9,870689E+08	5,467201E+08
-1702	1,916756E+08	1,712452E+07	0,000000E+00	0,000000E+00	1,712592E+07	1,916821E+08	5,467213E+08	9,870810E+08	1,324972E+09	1,324952E+09	9,870336E+08	5,466806E+08
-1701	1,916579E+08	1,711945E+07	0,000000E+00	0,000000E+00	1,711651E+07	1,916495E+08	5,466781E+08	9,870370E+08	1,324964E+09	1,324998E+09	9,871102E+08	5,467387E+08
-1700	1,916879E+08	1,712591E+07	0,000000E+00	0,000000E+00	1,712426E+07	1,916778E+08	5,467245E+08	9,870800E+08	1,324965E+09	1,324971E+09	9,870776E+08	5,467033E+08
-1699	1,916550E+08	1,711696E+07	0,000000E+00	0,000000E+00	1,712052E+07	1,916762E+08	5,467324E+08	9,871076E+08	1,324993E+09	1,324959E+09	9,870425E+08	5,466909E+08
-1698	1,916629E+08	1,712027E+07	0,000000E+00	0,000000E+00	1,711752E+07	1,916496E+08	5,466817E+08	9,870468E+08	1,324967E+09	1,324983E+09	9,870904E+08	5,467321E+08
-1697	1,916873E+08	1,712638E+07	0,000000E+00	0,000000E+00	1,712803E+07	1,916882E+08	5,467284E+08	9,870780E+08	1,324958E+09	1,324942E+09	9,870249E+08	5,466708E+08
-1696	1,916541E+08	1,712093E+07	0,000000E+00	0,000000E+00	1,712281E+07	1,916695E+08	5,466970E+08	9,870346E+08	1,324916E+09	1,324908E+09	9,870230E+08	5,466973E+08
-1695	1,916845E+08	1,713177E+07	0,000000E+00	0,000000E+00	1,712887E+07	1,916670E+08	5,466662E+08	9,869649E+08	1,324838E+09	1,324864E+09	9,870236E+08	5,467154E+08
-1694	1,916920E+08	1,713349E+07	0,000000E+00	0,000000E+00	1,713758E+07	1,917043E+08	5,467108E+08	9,869922E+08	1,324815E+09	1,324790E+09	9,869284E+08	5,466529E+08
-1693	1,916726E+08	1,713302E+07	0,000000E+00	0,000000E+00	1,713355E+07	1,916766E+08	5,466578E+08	9,869172E+08	1,324754E+09	1,324765E+09	9,869493E+08	5,466973E+08
-1692	1,917136E+08	1,714478E+07	0,000000E+00	0,000000E+00	1,714207E+07	1,916950E+08	5,466702E+08	9,869030E+08	1,324707E+09	1,324711E+09	9,869082E+08	5,466687E+08
-1691	1,916910E+08	1,714064E+07	0,000000E+00	0,000000E+00	1,714469E+07	1,917089E+08	5,466850E+08	9,869200E+08	1,324709E+09	1,324673E+09	9,868462E+08	5,466336E+08
-1690	1,916888E+08	1,714297E+07	0,000000E+00	0,000000E+00	1,714021E+07	1,916778E+08	5,466264E+08	9,868445E+08	1,324672E+09	1,324699E+09	9,869114E+08	5,466882E+08
-1689	1,917177E+08	1,714867E+07	0,000000E+00	0,000000E+00	1,714890E+07	1,917155E+08	5,466818E+08	9,868948E+08	1,324685E+09	1,324685E+09	9,868757E+08	5,466423E+08
-1688	1,916804E+08	1,714009E+07	0,000000E+00	0,000000E+00	1,714282E+07	1,917024E+08	5,466804E+08	9,869172E+08	1,324714E+09	1,324697E+09	9,868854E+08	5,466613E+08
-1687	1,916983E+08	1,714274E+07	0,000000E+00	0,000000E+00	1,713804E+07	1,916774E+08	5,466432E+08	9,868860E+08	1,324722E+09	1,324747E+09	9,869482E+08	5,467005E+08
-1686	1,917080E+08	1,714240E+07	0,000000E+00	0,000000E+00	1,714299E+07	1,917088E+08	5,467011E+08	9,869657E+08	1,324782E+09	1,324763E+09	9,869138E+08	5,466481E+08
-1685	1,916725E+08	1,713320E+07	0,000000E+00	0,000000E+00	1,713134E+07	1,916730E+08	5,466633E+08	9,869495E+08	1,324811E+09	1,324820E+09	9,869792E+08	5,466970E+08
-1684	1,917003E+08	1,713807E+07	0,000000E+00	0,000000E+00	1,713263E+07	1,916755E+08	5,466706E+08	9,869578E+08	1,324818E+09	1,324841E+09	9,870034E+08	5,466997E+08
-1683	1,916816E+08	1,713130E+07	0,000000E+00	0,000000E+00	1,713455E+07	1,916974E+08	5,467141E+08	9,870237E+08	1,324871E+09	1,324847E+09	9,869643E+08	5,466598E+08
-1682	1,916633E+08	1,712551E+07	0,000000E+00	0,000000E+00	1,712426E+07	1,916616E+08	5,466683E+08	9,869826E+08	1,324868E+09	1,324891E+09	9,870362E+08	5,467173E+08
-1681	1,916957E+08	1,713297E+07	0,000000E+00	0,000000E+00	1,713214E+07	1,916889E+08	5,467101E+08	9,870242E+08	1,324882E+09	1,324881E+09	9,870113E+08	5,466838E+08
-1680	1,916645E+08	1,712483E+07	0,000000E+00	0,000000E+00	1,712798E+07	1,916849E+08	5,467156E+08	9,870466E+08	1,324902E+09	1,324866E+09	9,869779E+08	5,466730E+08
-1679	1,916736E+08	1,712872E+07	0,000000E+00	0,000000E+00	1,712542E+07	1,916558E+08	5,466523E+08	9,869606E+08	1,324849E+09	1,324873E+09	9,870220E+08	5,467156E+08
-1678	1,917004E+08	1,713619E+07	0,000000E+00	0,000000E+00	1,713703E+07	1,916983E+08	5,467014E+08	9,869869E+08	1,324826E+09	1,324817E+09	9,869549E+08	5,466585E+08
-1677	1,916670E+08	1,713046E+07	0,000000E+00	0,000000E+00	1,713291E+07	1,916833E+08	5,466755E+08	9,869463E+08	1,324780E+09	1,324776E+09	9,869438E+08	5,466824E+08
-1676	1,917002E+08	1,714175E+07	0,000000E+00	0,000000E+00	1,713868E+07	1,916817E+08	5,466535E+08	9,868892E+08	1,324705E+09	1,324724E+09	9,869324E+08	5,466918E+08
-1675	1,917038E+08	1,714292E+07	0,000000E+00	0,000000E+00	1,714736E+07	1,917174E+08	5,466937E+08	9,869187E+08	1,324694E+09	1,324657E+09	9,868354E+08	5,466258E+08
-1674	1,916830E+08	1,714200E+07	0,000000E+00	0,000000E+00	1,714236E+07	1,916859E+08	5,466337E+08	9,868380E+08	1,324637E+09	1,324642E+09	9,868622E+08	5,466705E+08
-1673	1,917238E+08	1,715393E+07	0,000000E+00	0,000000E+00	1,715124E+07	1,917060E+08	5,466452E+08	9,868237E+08	1,324601E+09	1,324610E+09	9,868375E+08	5,466470E+08
-1672	1,917004E+08	1,714940E+07	0,000000E+00	0,000000E+00	1,715350E+07	1,917219E+08	5,466694E+08	9,868504E+08	1,324604E+09	1,324573E+09	9,867836E+08	5,466184E+08
-1671	1,916988E+08	1,715078E+07	0,000000E+00	0,000000E+00	1,714810E+07	1,916880E+08	5,466087E+08	9,867736E+08	1,324562E+09	1,324594E+09	9,868477E+08	5,466749E+08
-1670	1,917296E+08	1,715697E+07	0,000000E+00	0,000000E+00	1,715624E+07	1,917244E+08	5,466661E+08	9,868338E+08	1,324585E+09	1,324581E+09	9,868143E+08	5,466326E+08
-1669	1,916924E+08	1,714794E+07	0,000000E+00	0,000000E+00	1,714983E+07	1,917094E+08	5,466615E+08	9,868564E+08	1,324626E+09	1,324605E+09	9,868232E+08	5,466474E+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	1,917104E+08	1,715065E+07	0,000000E+00	0,000000E+00	1,714472E+07	1,916844E+08	5,466264E+08	9,868243E+08	1,324629E+09	1,324653E+09	9,868825E+08	5,466794E+08
-1667	1,917150E+08	1,714963E+07	0,000000E+00	0,000000E+00	1,715068E+07	1,917178E+08	5,466812E+08	9,868985E+08	1,324686E+09	1,324669E+09	9,868503E+08	5,466274E+08
-1666	1,916777E+08	1,713940E+07	0,000000E+00	0,000000E+00	1,713891E+07	1,916836E+08	5,466449E+08	9,868785E+08	1,324706E+09	1,324719E+09	9,869142E+08	5,466785E+08
-1665	1,917066E+08	1,714447E+07	0,000000E+00	0,000000E+00	1,714074E+07	1,916889E+08	5,466576E+08	9,868965E+08	1,324725E+09	1,324748E+09	9,869426E+08	5,466850E+08
-1664	1,916901E+08	1,713796E+07	0,000000E+00	0,000000E+00	1,714179E+07	1,917093E+08	5,467067E+08	9,869740E+08	1,324782E+09	1,324749E+09	9,869006E+08	5,466457E+08
-1663	1,916736E+08	1,713260E+07	0,000000E+00	0,000000E+00	1,713074E+07	1,916674E+08	5,466483E+08	9,869190E+08	1,324771E+09	1,324788E+09	9,869659E+08	5,466994E+08
-1662	1,917074E+08	1,714169E+07	0,000000E+00	0,000000E+00	1,713921E+07	1,916948E+08	5,466868E+08	9,869542E+08	1,324780E+09	1,324777E+09	9,869447E+08	5,466690E+08
-1661	1,916765E+08	1,713386E+07	0,000000E+00	0,000000E+00	1,713644E+07	1,916942E+08	5,466913E+08	9,869680E+08	1,324793E+09	1,324762E+09	9,869099E+08	5,466561E+08
-1660	1,916860E+08	1,713810E+07	0,000000E+00	0,000000E+00	1,713485E+07	1,916702E+08	5,466373E+08	9,868825E+08	1,324725E+09	1,324752E+09	9,869451E+08	5,466950E+08
-1659	1,917100E+08	1,714497E+07	0,000000E+00	0,000000E+00	1,714726E+07	1,917145E+08	5,466881E+08	9,869132E+08	1,324703E+09	1,324690E+09	9,868722E+08	5,466376E+08
-1658	1,916773E+08	1,713886E+07	0,000000E+00	0,000000E+00	1,714250E+07	1,916964E+08	5,466570E+08	9,868702E+08	1,324658E+09	1,324646E+09	9,868549E+08	5,466590E+08
-1657	1,917119E+08	1,715084E+07	0,000000E+00	0,000000E+00	1,714801E+07	1,916931E+08	5,466303E+08	9,868130E+08	1,324598E+09	1,324611E+09	9,868518E+08	5,466699E+08
-1656	1,917160E+08	1,715237E+07	0,000000E+00	0,000000E+00	1,715602E+07	1,917269E+08	5,466710E+08	9,868421E+08	1,324582E+09	1,324545E+09	9,867596E+08	5,466052E+08
-1655	1,916947E+08	1,715127E+07	0,000000E+00	0,000000E+00	1,715080E+07	1,916930E+08	5,466027E+08	9,867462E+08	1,324509E+09	1,324523E+09	9,867870E+08	5,466506E+08
-1654	1,917354E+08	1,716356E+07	0,000000E+00	0,000000E+00	1,716008E+07	1,917173E+08	5,466225E+08	9,867385E+08	1,324473E+09	1,324489E+09	9,867678E+08	5,466338E+08
-1653	1,917125E+08	1,715841E+07	0,000000E+00	0,000000E+00	1,716257E+07	1,917348E+08	5,466531E+08	9,867763E+08	1,324488E+09	1,324459E+09	9,867134E+08	5,466043E+08
-1652	1,917120E+08	1,715941E+07	0,000000E+00	0,000000E+00	1,715639E+07	1,917010E+08	5,465996E+08	9,867130E+08	1,324456E+09	1,324480E+09	9,867716E+08	5,466545E+08
-1651	1,917389E+08	1,716479E+07	0,000000E+00	0,000000E+00	1,716422E+07	1,917346E+08	5,466511E+08	9,867753E+08	1,324493E+09	1,324480E+09	9,867417E+08	5,466115E+08
-1650	1,917007E+08	1,715498E+07	0,000000E+00	0,000000E+00	1,715699E+07	1,917163E+08	5,466393E+08	9,867901E+08	1,324534E+09	1,324514E+09	9,867569E+08	5,466266E+08
-1649	1,917177E+08	1,715755E+07	0,000000E+00	0,000000E+00	1,715232E+07	1,916939E+08	5,466050E+08	9,867590E+08	1,324545E+09	1,324575E+09	9,868288E+08	5,466637E+08
-1648	1,917219E+08	1,715614E+07	0,000000E+00	0,000000E+00	1,715785E+07	1,917292E+08	5,466698E+08	9,868410E+08	1,324596E+09	1,324583E+09	9,867976E+08	5,466148E+08
-1647	1,916852E+08	1,714538E+07	0,000000E+00	0,000000E+00	1,714548E+07	1,916928E+08	5,466315E+08	9,868189E+08	1,324608E+09	1,324621E+09	9,868527E+08	5,466646E+08
-1646	1,917162E+08	1,715153E+07	0,000000E+00	0,000000E+00	1,714735E+07	1,916980E+08	5,466460E+08	9,868425E+08	1,324632E+09	1,324647E+09	9,868790E+08	5,466724E+08
-1645	1,917014E+08	1,714559E+07	0,000000E+00	0,000000E+00	1,714861E+07	1,917169E+08	5,466898E+08	9,869150E+08	1,324695E+09	1,324658E+09	9,868355E+08	5,466295E+08
-1644	1,916860E+08	1,714112E+07	0,000000E+00	0,000000E+00	1,713820E+07	1,916762E+08	5,466309E+08	9,868520E+08	1,324671E+09	1,324687E+09	9,868946E+08	5,466771E+08
-1643	1,917159E+08	1,715007E+07	0,000000E+00	0,000000E+00	1,714799E+07	1,917050E+08	5,466635E+08	9,868760E+08	1,324669E+09	1,324669E+09	9,868717E+08	5,466482E+08
-1642	1,916856E+08	1,714201E+07	0,000000E+00	0,000000E+00	1,714565E+07	1,917062E+08	5,466681E+08	9,868822E+08	1,324668E+09	1,324644E+09	9,868341E+08	5,466372E+08
-1641	1,916967E+08	1,714676E+07	0,000000E+00	0,000000E+00	1,714473E+07	1,916843E+08	5,466177E+08	9,868042E+08	1,324607E+09	1,324634E+09	9,868696E+08	5,466784E+08
-1640	1,917226E+08	1,715386E+07	0,000000E+00	0,000000E+00	1,715607E+07	1,917262E+08	5,466710E+08	9,868404E+08	1,324585E+09	1,324567E+09	9,867918E+08	5,466195E+08
-1639	1,916912E+08	1,714824E+07	0,000000E+00	0,000000E+00	1,715086E+07	1,917038E+08	5,466291E+08	9,867836E+08	1,324531E+09	1,324518E+09	9,867687E+08	5,466369E+08
-1638	1,917263E+08	1,716128E+07	0,000000E+00	0,000000E+00	1,715675E+07	1,917019E+08	5,466027E+08	9,867239E+08	1,324468E+09	1,324484E+09	9,867705E+08	5,466498E+08
-1637	1,917295E+08	1,716268E+07	0,000000E+00	0,000000E+00	1,716573E+07	1,917392E+08	5,466469E+08	9,867543E+08	1,324456E+09	1,324426E+09	9,866825E+08	5,465854E+08
-1636	1,917074E+08	1,716114E+07	0,000000E+00	0,000000E+00	1,716086E+07	1,917100E+08	5,465912E+08	9,866700E+08	1,324383E+09	1,324398E+09	9,867056E+08	5,466272E+08
-1635	1,917433E+08	1,717190E+07	0,000000E+00	0,000000E+00	1,717001E+07	1,917339E+08	5,466139E+08	9,866764E+08	1,324364E+09	1,324372E+09	9,866879E+08	5,466120E+08
-1634	1,917215E+08	1,716601E+07	0,000000E+00	0,000000E+00	1,717125E+07	1,917470E+08	5,466396E+08	9,867159E+08	1,324390E+09	1,324355E+09	9,866398E+08	5,465835E+08
-1633	1,917211E+08	1,716685E+07	0,000000E+00	0,000000E+00	1,716427E+07	1,917103E+08	5,465812E+08	9,866552E+08	1,324377E+09	1,324397E+09	9,867105E+08	5,466369E+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	1,917479E+08	1,717201E+07	0,000000E+00	0,000000E+00	1,717092E+07	1,917410E+08	5,466309E+08	9,867132E+08	1,324407E+09	1,324399E+09	9,866879E+08	5,465973E+08
-1631	1,917098E+08	1,716188E+07	0,000000E+00	0,000000E+00	1,716342E+07	1,917210E+08	5,466112E+08	9,867112E+08	1,324429E+09	1,324420E+09	9,867007E+08	5,466129E+08
-1630	1,917271E+08	1,716475E+07	0,000000E+00	0,000000E+00	1,715916E+07	1,917032E+08	5,465871E+08	9,866871E+08	1,324434E+09	1,324473E+09	9,867723E+08	5,466544E+08
-1629	1,917328E+08	1,716339E+07	0,000000E+00	0,000000E+00	1,716490E+07	1,917394E+08	5,466572E+08	9,867800E+08	1,324496E+09	1,324483E+09	9,867360E+08	5,466029E+08
-1628	1,916975E+08	1,715288E+07	0,000000E+00	0,000000E+00	1,715230E+07	1,917036E+08	5,466236E+08	9,867655E+08	1,324512E+09	1,324514E+09	9,867791E+08	5,466430E+08
-1627	1,917244E+08	1,715891E+07	0,000000E+00	0,000000E+00	1,715467E+07	1,917070E+08	5,466316E+08	9,867873E+08	1,324545E+09	1,324551E+09	9,868054E+08	5,466488E+08
-1626	1,917101E+08	1,715311E+07	0,000000E+00	0,000000E+00	1,715609E+07	1,917246E+08	5,466673E+08	9,868453E+08	1,324599E+09	1,324564E+09	9,867672E+08	5,466070E+08
-1625	1,916941E+08	1,714899E+07	0,000000E+00	0,000000E+00	1,714695E+07	1,916874E+08	5,466092E+08	9,867810E+08	1,324576E+09	1,324596E+09	9,868340E+08	5,466601E+08
-1624	1,917249E+08	1,715781E+07	0,000000E+00	0,000000E+00	1,715653E+07	1,917177E+08	5,466486E+08	9,868064E+08	1,324561E+09	1,324566E+09	9,868089E+08	5,466349E+08
-1623	1,916966E+08	1,714986E+07	0,000000E+00	0,000000E+00	1,715397E+07	1,917162E+08	5,466468E+08	9,868030E+08	1,324544E+09	1,324523E+09	9,867592E+08	5,466211E+08
-1622	1,917102E+08	1,715594E+07	0,000000E+00	0,000000E+00	1,715333E+07	1,916955E+08	5,465984E+08	9,867263E+08	1,324481E+09	1,324506E+09	9,867905E+08	5,466618E+08
-1621	1,917375E+08	1,716370E+07	0,000000E+00	0,000000E+00	1,716479E+07	1,917355E+08	5,466468E+08	9,867574E+08	1,324463E+09	1,324445E+09	9,867092E+08	5,465980E+08
-1620	1,917058E+08	1,715869E+07	0,000000E+00	0,000000E+00	1,716048E+07	1,917164E+08	5,466079E+08	9,866969E+08	1,324399E+09	1,324386E+09	9,866781E+08	5,466080E+08
-1619	1,917353E+08	1,717090E+07	0,000000E+00	0,000000E+00	1,716729E+07	1,917169E+08	5,465820E+08	9,866385E+08	1,324338E+09	1,324355E+09	9,866813E+08	5,466223E+08
-1618	1,917386E+08	1,717153E+07	0,000000E+00	0,000000E+00	1,717607E+07	1,917549E+08	5,466293E+08	9,866719E+08	1,324328E+09	1,324301E+09	9,866007E+08	5,465634E+08
-1617	1,917174E+08	1,716976E+07	0,000000E+00	0,000000E+00	1,717084E+07	1,917250E+08	5,465780E+08	9,866064E+08	1,324281E+09	1,324288E+09	9,866335E+08	5,466101E+08
-1616	1,917542E+08	1,717989E+07	0,000000E+00	0,000000E+00	1,717790E+07	1,917441E+08	5,466002E+08	9,866187E+08	1,324270E+09	1,324271E+09	9,866208E+08	5,465966E+08
-1615	1,917337E+08	1,717411E+07	0,000000E+00	0,000000E+00	1,717803E+07	1,917509E+08	5,466125E+08	9,866422E+08	1,324289E+09	1,324258E+09	9,865760E+08	5,465679E+08
-1614	1,917336E+08	1,717538E+07	0,000000E+00	0,000000E+00	1,717113E+07	1,917164E+08	5,465557E+08	9,865780E+08	1,324269E+09	1,324301E+09	9,866537E+08	5,466240E+08
-1613	1,917594E+08	1,718025E+07	0,000000E+00	0,000000E+00	1,717809E+07	1,917487E+08	5,466078E+08	9,866368E+08	1,324301E+09	1,324306E+09	9,866319E+08	5,465849E+08
-1612	1,917212E+08	1,716972E+07	0,000000E+00	0,000000E+00	1,717114E+07	1,917343E+08	5,466011E+08	9,866458E+08	1,324320E+09	1,324312E+09	9,866328E+08	5,465941E+08
-1611	1,917342E+08	1,717149E+07	0,000000E+00	0,000000E+00	1,716694E+07	1,917161E+08	5,465795E+08	9,866353E+08	1,324340E+09	1,324368E+09	9,866981E+08	5,466326E+08
-1610	1,917409E+08	1,716998E+07	0,000000E+00	0,000000E+00	1,717202E+07	1,917491E+08	5,466451E+08	9,867274E+08	1,324410E+09	1,324389E+09	9,866680E+08	5,465824E+08
-1609	1,917058E+08	1,715989E+07	0,000000E+00	0,000000E+00	1,715953E+07	1,917120E+08	5,466081E+08	9,867160E+08	1,324442E+09	1,324437E+09	9,867204E+08	5,466236E+08
-1608	1,917314E+08	1,716574E+07	0,000000E+00	0,000000E+00	1,716151E+07	1,917140E+08	5,466128E+08	9,867266E+08	1,324460E+09	1,324470E+09	9,867514E+08	5,466327E+08
-1607	1,917186E+08	1,716032E+07	0,000000E+00	0,000000E+00	1,716326E+07	1,917309E+08	5,466400E+08	9,867627E+08	1,324486E+09	1,324465E+09	9,867091E+08	5,465932E+08
-1606	1,917047E+08	1,715705E+07	0,000000E+00	0,000000E+00	1,715524E+07	1,916993E+08	5,465900E+08	9,866987E+08	1,324447E+09	1,324480E+09	9,867697E+08	5,466493E+08
-1605	1,917386E+08	1,716656E+07	0,000000E+00	0,000000E+00	1,716495E+07	1,917284E+08	5,466297E+08	9,867287E+08	1,324437E+09	1,324444E+09	9,867343E+08	5,466208E+08
-1604	1,917125E+08	1,715945E+07	0,000000E+00	0,000000E+00	1,716291E+07	1,917290E+08	5,466305E+08	9,867260E+08	1,324416E+09	1,324386E+09	9,866674E+08	5,465958E+08
-1603	1,917220E+08	1,716560E+07	0,000000E+00	0,000000E+00	1,716286E+07	1,917074E+08	5,465786E+08	9,866498E+08	1,324360E+09	1,324376E+09	9,866940E+08	5,466315E+08
-1602	1,917485E+08	1,717320E+07	0,000000E+00	0,000000E+00	1,717453E+07	1,917476E+08	5,466232E+08	9,866725E+08	1,324338E+09	1,324322E+09	9,866231E+08	5,465703E+08
-1601	1,917154E+08	1,716818E+07	0,000000E+00	0,000000E+00	1,717108E+07	1,917320E+08	5,465906E+08	9,866237E+08	1,324288E+09	1,324273E+09	9,866021E+08	5,465847E+08
-1600	1,917434E+08	1,717921E+07	0,000000E+00	0,000000E+00	1,717687E+07	1,917325E+08	5,465716E+08	9,865729E+08	1,324229E+09	1,324246E+09	9,866111E+08	5,466044E+08
-1599	1,917491E+08	1,717980E+07	0,000000E+00	0,000000E+00	1,718461E+07	1,917651E+08	5,466101E+08	9,865995E+08	1,324216E+09	1,324189E+09	9,865309E+08	5,465481E+08
-1598	1,917307E+08	1,717872E+07	0,000000E+00	0,000000E+00	1,717892E+07	1,917346E+08	5,465587E+08	9,865350E+08	1,324171E+09	1,324182E+09	9,865690E+08	5,465976E+08
-1597	1,917690E+08	1,718913E+07	0,000000E+00	0,000000E+00	1,718518E+07	1,917491E+08	5,465735E+08	9,865423E+08	1,324166E+09	1,324174E+09	9,865583E+08	5,465830E+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	1,917484E+08	1,718347E+07	0,000000E+00	0,000000E+00	1,718591E+07	1,917588E+08	5,465864E+08	9,865577E+08	1,324169E+09	1,324145E+09	9,865053E+08	5,465475E+08
-1595	1,917426E+08	1,718356E+07	0,000000E+00	0,000000E+00	1,717958E+07	1,917278E+08	5,465355E+08	9,865000E+08	1,324152E+09	1,324187E+09	9,865789E+08	5,466025E+08
-1594	1,917674E+08	1,718739E+07	0,000000E+00	0,000000E+00	1,718629E+07	1,917611E+08	5,465930E+08	9,865656E+08	1,324187E+09	1,324195E+09	9,865620E+08	5,465657E+08
-1593	1,917289E+08	1,717652E+07	0,000000E+00	0,000000E+00	1,717910E+07	1,917469E+08	5,465936E+08	9,865997E+08	1,324236E+09	1,324216E+09	9,865674E+08	5,465755E+08
-1592	1,917410E+08	1,717758E+07	0,000000E+00	0,000000E+00	1,717347E+07	1,917256E+08	5,465720E+08	9,865941E+08	1,324268E+09	1,324285E+09	9,866376E+08	5,466143E+08
-1591	1,917489E+08	1,717660E+07	0,000000E+00	0,000000E+00	1,717789E+07	1,917528E+08	5,466228E+08	9,866662E+08	1,324326E+09	1,324307E+09	9,866119E+08	5,465666E+08
-1590	1,917157E+08	1,716742E+07	0,000000E+00	0,000000E+00	1,716630E+07	1,917193E+08	5,465874E+08	9,866472E+08	1,324343E+09	1,324351E+09	9,866700E+08	5,466115E+08
-1589	1,917420E+08	1,717363E+07	0,000000E+00	0,000000E+00	1,716882E+07	1,917222E+08	5,465917E+08	9,866532E+08	1,324355E+09	1,324377E+09	9,866972E+08	5,466220E+08
-1588	1,917308E+08	1,716849E+07	0,000000E+00	0,000000E+00	1,717160E+07	1,917441E+08	5,466262E+08	9,866896E+08	1,324365E+09	1,324345E+09	9,866358E+08	5,465751E+08
-1587	1,917145E+08	1,716514E+07	0,000000E+00	0,000000E+00	1,716433E+07	1,917133E+08	5,465781E+08	9,866329E+08	1,324333E+09	1,324354E+09	9,866821E+08	5,466258E+08
-1586	1,917499E+08	1,717492E+07	0,000000E+00	0,000000E+00	1,717371E+07	1,917395E+08	5,466108E+08	9,866552E+08	1,324322E+09	1,324322E+09	9,866496E+08	5,465961E+08
-1585	1,917238E+08	1,716863E+07	0,000000E+00	0,000000E+00	1,717229E+07	1,917400E+08	5,466107E+08	9,866579E+08	1,324313E+09	1,324274E+09	9,865875E+08	5,465703E+08
-1584	1,917312E+08	1,717447E+07	0,000000E+00	0,000000E+00	1,717201E+07	1,917185E+08	5,465575E+08	9,865739E+08	1,324248E+09	1,324265E+09	9,866182E+08	5,466076E+08
-1583	1,917579E+08	1,718218E+07	0,000000E+00	0,000000E+00	1,718360E+07	1,917576E+08	5,465961E+08	9,865813E+08	1,324208E+09	1,324201E+09	9,865497E+08	5,465529E+08
-1582	1,917280E+08	1,717781E+07	0,000000E+00	0,000000E+00	1,718075E+07	1,917459E+08	5,465725E+08	9,865394E+08	1,324154E+09	1,324149E+09	9,865317E+08	5,465716E+08
-1581	1,917583E+08	1,718893E+07	0,000000E+00	0,000000E+00	1,718558E+07	1,917424E+08	5,465510E+08	9,864951E+08	1,324109E+09	1,324127E+09	9,865387E+08	5,465912E+08
-1580	1,917661E+08	1,719010E+07	0,000000E+00	0,000000E+00	1,719344E+07	1,917755E+08	5,465882E+08	9,865188E+08	1,324091E+09	1,324062E+09	9,864489E+08	5,465277E+08
-1579	1,917441E+08	1,718862E+07	0,000000E+00	0,000000E+00	1,718796E+07	1,917443E+08	5,465342E+08	9,864544E+08	1,324053E+09	1,324062E+09	9,864836E+08	5,465729E+08
-1578	1,917802E+08	1,719800E+07	0,000000E+00	0,000000E+00	1,719395E+07	1,917587E+08	5,465470E+08	9,864568E+08	1,324046E+09	1,324062E+09	9,864853E+08	5,465612E+08
-1577	1,917571E+08	1,719170E+07	0,000000E+00	0,000000E+00	1,719516E+07	1,917726E+08	5,465722E+08	9,864941E+08	1,324068E+09	1,324042E+09	9,864388E+08	5,465278E+08
-1576	1,917481E+08	1,718984E+07	0,000000E+00	0,000000E+00	1,718744E+07	1,917418E+08	5,465306E+08	9,864512E+08	1,324062E+09	1,324090E+09	9,865148E+08	5,465838E+08
-1575	1,917734E+08	1,719340E+07	0,000000E+00	0,000000E+00	1,719284E+07	1,917696E+08	5,465811E+08	9,865141E+08	1,324101E+09	1,324102E+09	9,865019E+08	5,465510E+08
-1574	1,917383E+08	1,718329E+07	0,000000E+00	0,000000E+00	1,718536E+07	1,917552E+08	5,465819E+08	9,865488E+08	1,324155E+09	1,324135E+09	9,865147E+08	5,465621E+08
-1573	1,917512E+08	1,718482E+07	0,000000E+00	0,000000E+00	1,717929E+07	1,917296E+08	5,465515E+08	9,865360E+08	1,324189E+09	1,324210E+09	9,865878E+08	5,466018E+08
-1572	1,917601E+08	1,718453E+07	0,000000E+00	0,000000E+00	1,718492E+07	1,917602E+08	5,465994E+08	9,865918E+08	1,324222E+09	1,324210E+09	9,865522E+08	5,465506E+08
-1571	1,917243E+08	1,717507E+07	0,000000E+00	0,000000E+00	1,717449E+07	1,917305E+08	5,465685E+08	9,865731E+08	1,324232E+09	1,324241E+09	9,865986E+08	5,465937E+08
-1570	1,917514E+08	1,718102E+07	0,000000E+00	0,000000E+00	1,717716E+07	1,917334E+08	5,465736E+08	9,865781E+08	1,324236E+09	1,324261E+09	9,866260E+08	5,466056E+08
-1569	1,917416E+08	1,717646E+07	0,000000E+00	0,000000E+00	1,718018E+07	1,917557E+08	5,466134E+08	9,866326E+08	1,324265E+09	1,324231E+09	9,865595E+08	5,465551E+08
-1568	1,917241E+08	1,717293E+07	0,000000E+00	0,000000E+00	1,717240E+07	1,917240E+08	5,465643E+08	9,865739E+08	1,324235E+09	1,324244E+09	9,866036E+08	5,466020E+08
-1567	1,917598E+08	1,718348E+07	0,000000E+00	0,000000E+00	1,718154E+07	1,917460E+08	5,465836E+08	9,865746E+08	1,324208E+09	1,324210E+09	9,865741E+08	5,465748E+08
-1566	1,917356E+08	1,717814E+07	0,000000E+00	0,000000E+00	1,718141E+07	1,917519E+08	5,465881E+08	9,865723E+08	1,324189E+09	1,324162E+09	9,865184E+08	5,465521E+08
-1565	1,917436E+08	1,718424E+07	0,000000E+00	0,000000E+00	1,718137E+07	1,917306E+08	5,465366E+08	9,864914E+08	1,324126E+09	1,324149E+09	9,865486E+08	5,465924E+08
-1564	1,917714E+08	1,719201E+07	0,000000E+00	0,000000E+00	1,719355E+07	1,917724E+08	5,465784E+08	9,864979E+08	1,324073E+09	1,324065E+09	9,864665E+08	5,465341E+08
-1563	1,917410E+08	1,718769E+07	0,000000E+00	0,000000E+00	1,719092E+07	1,917601E+08	5,465560E+08	9,864653E+08	1,324033E+09	1,324017E+09	9,864407E+08	5,465491E+08
-1562	1,917717E+08	1,719835E+07	0,000000E+00	0,000000E+00	1,719490E+07	1,917527E+08	5,465273E+08	9,864143E+08	1,323989E+09	1,324006E+09	9,864573E+08	5,465688E+08
-1561	1,917780E+08	1,719965E+07	0,000000E+00	0,000000E+00	1,720281E+07	1,917853E+08	5,465657E+08	9,864474E+08	1,323985E+09	1,323951E+09	9,863732E+08	5,465050E+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	1,917525E+08	1,719681E+07	0,000000E+00	0,000000E+00	1,719684E+07	1,917561E+08	5,465147E+08	9,863808E+08	1,323944E+09	1,323955E+09	9,864125E+08	5,465512E+08
-1559	1,917871E+08	1,720536E+07	0,000000E+00	0,000000E+00	1,720190E+07	1,917685E+08	5,465243E+08	9,863755E+08	1,323927E+09	1,323950E+09	9,864181E+08	5,465457E+08
-1558	1,917667E+08	1,719917E+07	0,000000E+00	0,000000E+00	1,720310E+07	1,917854E+08	5,465608E+08	9,864276E+08	1,323957E+09	1,323937E+09	9,863775E+08	5,465155E+08
-1557	1,917594E+08	1,719730E+07	0,000000E+00	0,000000E+00	1,719392E+07	1,917495E+08	5,465175E+08	9,863984E+08	1,323975E+09	1,323997E+09	9,864544E+08	5,465705E+08
-1556	1,917853E+08	1,720132E+07	0,000000E+00	0,000000E+00	1,719944E+07	1,917769E+08	5,465638E+08	9,864549E+08	1,324010E+09	1,324005E+09	9,864355E+08	5,465336E+08
-1555	1,917488E+08	1,719138E+07	0,000000E+00	0,000000E+00	1,719239E+07	1,917625E+08	5,465627E+08	9,864881E+08	1,324069E+09	1,324044E+09	9,864472E+08	5,465421E+08
-1554	1,917600E+08	1,719219E+07	0,000000E+00	0,000000E+00	1,718666E+07	1,917375E+08	5,465290E+08	9,864645E+08	1,324091E+09	1,324120E+09	9,865303E+08	5,465855E+08
-1553	1,917680E+08	1,719185E+07	0,000000E+00	0,000000E+00	1,719307E+07	1,917715E+08	5,465863E+08	9,865351E+08	1,324130E+09	1,324116E+09	9,864929E+08	5,465355E+08
-1552	1,917308E+08	1,718134E+07	0,000000E+00	0,000000E+00	1,718240E+07	1,917437E+08	5,465603E+08	9,865202E+08	1,324139E+09	1,324141E+09	9,865319E+08	5,465759E+08
-1551	1,917591E+08	1,718780E+07	0,000000E+00	0,000000E+00	1,718437E+07	1,917415E+08	5,465546E+08	9,865120E+08	1,324134E+09	1,324154E+09	9,865569E+08	5,465901E+08
-1550	1,917536E+08	1,718464E+07	0,000000E+00	0,000000E+00	1,718789E+07	1,917652E+08	5,465948E+08	9,865613E+08	1,324158E+09	1,324128E+09	9,864925E+08	5,465384E+08
-1549	1,917370E+08	1,718214E+07	0,000000E+00	0,000000E+00	1,718016E+07	1,917305E+08	5,465385E+08	9,864959E+08	1,324126E+09	1,324139E+09	9,865340E+08	5,465831E+08
-1548	1,917721E+08	1,719332E+07	0,000000E+00	0,000000E+00	1,719082E+07	1,917574E+08	5,465569E+08	9,864818E+08	1,324074E+09	1,324082E+09	9,864930E+08	5,465537E+08
-1547	1,917472E+08	1,718808E+07	0,000000E+00	0,000000E+00	1,719186E+07	1,917673E+08	5,465684E+08	9,864849E+08	1,324052E+09	1,324024E+09	9,864275E+08	5,465292E+08
-1546	1,917551E+08	1,719353E+07	0,000000E+00	0,000000E+00	1,719166E+07	1,917450E+08	5,465178E+08	9,864073E+08	1,323991E+09	1,324014E+09	9,864637E+08	5,465726E+08
-1545	1,917841E+08	1,720159E+07	0,000000E+00	0,000000E+00	1,720360E+07	1,917858E+08	5,465639E+08	9,864339E+08	1,323961E+09	1,323939E+09	9,863817E+08	5,465131E+08
-1544	1,917524E+08	1,719672E+07	0,000000E+00	0,000000E+00	1,720031E+07	1,917719E+08	5,465379E+08	9,863970E+08	1,323927E+09	1,323903E+09	9,863589E+08	5,465255E+08
-1543	1,917822E+08	1,720729E+07	0,000000E+00	0,000000E+00	1,720325E+07	1,917599E+08	5,464974E+08	9,863275E+08	1,323871E+09	1,323894E+09	9,863844E+08	5,465496E+08
-1542	1,917897E+08	1,720877E+07	0,000000E+00	0,000000E+00	1,721166E+07	1,917969E+08	5,465431E+08	9,863613E+08	1,323862E+09	1,323843E+09	9,863086E+08	5,464889E+08
-1541	1,917638E+08	1,720546E+07	0,000000E+00	0,000000E+00	1,720499E+07	1,917672E+08	5,464979E+08	9,863091E+08	1,323834E+09	1,323848E+09	9,863469E+08	5,465360E+08
-1540	1,917978E+08	1,721343E+07	0,000000E+00	0,000000E+00	1,721005E+07	1,917811E+08	5,465109E+08	9,863089E+08	1,323816E+09	1,323833E+09	9,863432E+08	5,465284E+08
-1539	1,917776E+08	1,720725E+07	0,000000E+00	0,000000E+00	1,721093E+07	1,917968E+08	5,465496E+08	9,863737E+08	1,323867E+09	1,323833E+09	9,863010E+08	5,464951E+08
-1538	1,917694E+08	1,720470E+07	0,000000E+00	0,000000E+00	1,720096E+07	1,917568E+08	5,464995E+08	9,863394E+08	1,323891E+09	1,323911E+09	9,863928E+08	5,465523E+08
-1537	1,917940E+08	1,720891E+07	0,000000E+00	0,000000E+00	1,720673E+07	1,917839E+08	5,465463E+08	9,864027E+08	1,323932E+09	1,323924E+09	9,863793E+08	5,465164E+08
-1536	1,917550E+08	1,719792E+07	0,000000E+00	0,000000E+00	1,719979E+07	1,917723E+08	5,465457E+08	9,864272E+08	1,323982E+09	1,323962E+09	9,863921E+08	5,465255E+08
-1535	1,917653E+08	1,719830E+07	0,000000E+00	0,000000E+00	1,719365E+07	1,917458E+08	5,465077E+08	9,863901E+08	1,323984E+09	1,324023E+09	9,864736E+08	5,465744E+08
-1534	1,917775E+08	1,719862E+07	0,000000E+00	0,000000E+00	1,720032E+07	1,917820E+08	5,465715E+08	9,864660E+08	1,324022E+09	1,324015E+09	9,864336E+08	5,465247E+08
-1533	1,917434E+08	1,718907E+07	0,000000E+00	0,000000E+00	1,718917E+07	1,917512E+08	5,465434E+08	9,864584E+08	1,324041E+09	1,324038E+09	9,864639E+08	5,465610E+08
-1532	1,917722E+08	1,719650E+07	0,000000E+00	0,000000E+00	1,719207E+07	1,917498E+08	5,465313E+08	9,864348E+08	1,324019E+09	1,324034E+09	9,864753E+08	5,465691E+08
-1531	1,917663E+08	1,719417E+07	0,000000E+00	0,000000E+00	1,719669E+07	1,917760E+08	5,465726E+08	9,864829E+08	1,324042E+09	1,324007E+09	9,864070E+08	5,465140E+08
-1530	1,917476E+08	1,719130E+07	0,000000E+00	0,000000E+00	1,718983E+07	1,917434E+08	5,465167E+08	9,864123E+08	1,324003E+09	1,324021E+09	9,864568E+08	5,465605E+08
-1529	1,917809E+08	1,720220E+07	0,000000E+00	0,000000E+00	1,720099E+07	1,917729E+08	5,465457E+08	9,864168E+08	1,323960E+09	1,323961E+09	9,864134E+08	5,465324E+08
-1528	1,917557E+08	1,719624E+07	0,000000E+00	0,000000E+00	1,720186E+07	1,917837E+08	5,465591E+08	9,864232E+08	1,323945E+09	1,323907E+09	9,863462E+08	5,465068E+08
-1527	1,917646E+08	1,720196E+07	0,000000E+00	0,000000E+00	1,720049E+07	1,917551E+08	5,464956E+08	9,863305E+08	1,323876E+09	1,323896E+09	9,863857E+08	5,465547E+08
-1526	1,917978E+08	1,721101E+07	0,000000E+00	0,000000E+00	1,721235E+07	1,917953E+08	5,465393E+08	9,863497E+08	1,323843E+09	1,323830E+09	9,863106E+08	5,464967E+08
-1525	1,917677E+08	1,720697E+07	0,000000E+00	0,000000E+00	1,720887E+07	1,917788E+08	5,465079E+08	9,863091E+08	1,323807E+09	1,323791E+09	9,862878E+08	5,465085E+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												
-1524	1,917958E+08	1,721726E+07	0,000000E+00	0,000000E+00	1,721256E+07	1,917709E+08	5,464678E+08	9,862283E+08	1,323729E+09	1,323761E+09	9,863031E+08	5,465308E+08
-1523	1,918023E+08	1,721845E+07	0,000000E+00	0,000000E+00	1,722121E+07	1,918110E+08	5,465247E+08	9,862777E+08	1,323729E+09	1,323710E+09	9,862225E+08	5,464686E+08
-1522	1,917752E+08	1,721396E+07	0,000000E+00	0,000000E+00	1,721380E+07	1,917797E+08	5,464831E+08	9,862388E+08	1,323718E+09	1,323730E+09	9,862700E+08	5,465157E+08
-1521	1,918075E+08	1,722154E+07	0,000000E+00	0,000000E+00	1,721816E+07	1,917923E+08	5,465024E+08	9,862637E+08	1,323730E+09	1,323732E+09	9,862696E+08	5,465072E+08
-1520	1,917859E+08	1,721460E+07	0,000000E+00	0,000000E+00	1,721849E+07	1,918068E+08	5,465371E+08	9,863243E+08	1,323793E+09	1,323751E+09	9,862374E+08	5,464733E+08
-1519	1,917757E+08	1,721146E+07	0,000000E+00	0,000000E+00	1,720764E+07	1,917630E+08	5,464762E+08	9,862725E+08	1,323803E+09	1,323831E+09	9,863405E+08	5,465381E+08
-1518	1,918023E+08	1,721577E+07	0,000000E+00	0,000000E+00	1,721392E+07	1,917937E+08	5,465283E+08	9,863327E+08	1,323837E+09	1,323845E+09	9,863343E+08	5,465076E+08
-1517	1,917650E+08	1,720480E+07	0,000000E+00	0,000000E+00	1,720642E+07	1,917805E+08	5,465300E+08	9,863646E+08	1,323887E+09	1,323873E+09	9,863393E+08	5,465157E+08
-1516	1,917757E+08	1,720526E+07	0,000000E+00	0,000000E+00	1,720086E+07	1,917558E+08	5,464912E+08	9,863221E+08	1,323875E+09	1,323911E+09	9,864037E+08	5,465601E+08
-1515	1,917896E+08	1,720656E+07	0,000000E+00	0,000000E+00	1,720770E+07	1,917916E+08	5,465558E+08	9,864030E+08	1,323921E+09	1,323903E+09	9,863535E+08	5,465038E+08
-1514	1,917544E+08	1,719706E+07	0,000000E+00	0,000000E+00	1,719683E+07	1,917595E+08	5,465229E+08	9,863885E+08	1,323938E+09	1,323934E+09	9,863899E+08	5,465378E+08
-1513	1,917811E+08	1,720499E+07	0,000000E+00	0,000000E+00	1,720073E+07	1,917604E+08	5,465148E+08	9,863726E+08	1,323919E+09	1,323928E+09	9,863993E+08	5,465446E+08
-1512	1,917736E+08	1,720208E+07	0,000000E+00	0,000000E+00	1,720606E+07	1,917905E+08	5,465570E+08	9,864116E+08	1,323934E+09	1,323899E+09	9,863323E+08	5,464906E+08
-1511	1,917544E+08	1,719911E+07	0,000000E+00	0,000000E+00	1,719889E+07	1,917558E+08	5,464970E+08	9,863314E+08	1,323879E+09	1,323902E+09	9,863837E+08	5,465445E+08
-1510	1,917924E+08	1,721066E+07	0,000000E+00	0,000000E+00	1,720999E+07	1,917856E+08	5,465284E+08	9,863386E+08	1,323840E+09	1,323846E+09	9,863418E+08	5,465186E+08
-1509	1,917715E+08	1,720605E+07	0,000000E+00	0,000000E+00	1,721026E+07	1,917917E+08	5,465359E+08	9,863469E+08	1,323832E+09	1,323793E+09	9,862707E+08	5,464904E+08
-1508	1,917807E+08	1,721248E+07	0,000000E+00	0,000000E+00	1,720965E+07	1,917639E+08	5,464646E+08	9,862355E+08	1,323742E+09	1,323766E+09	9,863004E+08	5,465345E+08
-1507	1,918136E+08	1,722199E+07	0,000000E+00	0,000000E+00	1,722200E+07	1,918061E+08	5,465108E+08	9,862554E+08	1,323708E+09	1,323697E+09	9,862217E+08	5,464731E+08
-1506	1,917804E+08	1,721702E+07	0,000000E+00	0,000000E+00	1,721914E+07	1,917927E+08	5,464850E+08	9,862180E+08	1,323671E+09	1,323663E+09	9,862065E+08	5,464859E+08
-1505	1,918055E+08	1,722623E+07	0,000000E+00	0,000000E+00	1,722258E+07	1,917874E+08	5,464598E+08	9,861660E+08	1,323613E+09	1,323636E+09	9,862185E+08	5,465067E+08
-1504	1,918100E+08	1,722609E+07	0,000000E+00	0,000000E+00	1,723055E+07	1,918273E+08	5,465193E+08	9,862256E+08	1,323634E+09	1,323602E+09	9,861454E+08	5,464448E+08
-1503	1,917822E+08	1,722111E+07	0,000000E+00	0,000000E+00	1,722141E+07	1,917894E+08	5,464679E+08	9,861803E+08	1,323628E+09	1,323636E+09	9,862051E+08	5,464977E+08
-1502	1,918164E+08	1,722876E+07	0,000000E+00	0,000000E+00	1,722517E+07	1,918000E+08	5,464838E+08	9,861999E+08	1,323645E+09	1,323656E+09	9,862182E+08	5,464937E+08
-1501	1,917974E+08	1,722260E+07	0,000000E+00	0,000000E+00	1,722501E+07	1,918114E+08	5,465127E+08	9,862568E+08	1,323705E+09	1,323675E+09	9,861902E+08	5,464623E+08
-1500	1,917860E+08	1,721892E+07	0,000000E+00	0,000000E+00	1,721492E+07	1,917711E+08	5,464502E+08	9,861886E+08	1,323686E+09	1,323727E+09	9,862798E+08	5,465262E+08
-1499	1,918134E+08	1,722339E+07	0,000000E+00	0,000000E+00	1,722123E+07	1,918034E+08	5,465105E+08	9,862595E+08	1,323722E+09	1,323731E+09	9,862639E+08	5,464936E+08
-1498	1,917763E+08	1,721202E+07	0,000000E+00	0,000000E+00	1,721373E+07	1,917899E+08	5,465142E+08	9,862993E+08	1,323779E+09	1,323763E+09	9,862695E+08	5,464984E+08
-1497	1,917858E+08	1,721277E+07	0,000000E+00	0,000000E+00	1,720821E+07	1,917655E+08	5,464816E+08	9,862740E+08	1,323784E+09	1,323804E+09	9,863261E+08	5,465364E+08
-1496	1,917980E+08	1,721398E+07	0,000000E+00	0,000000E+00	1,721544E+07	1,918022E+08	5,465422E+08	9,863464E+08	1,323834E+09	1,323809E+09	9,862817E+08	5,464782E+08
-1495	1,917610E+08	1,720457E+07	0,000000E+00	0,000000E+00	1,720461E+07	1,917688E+08	5,465012E+08	9,863155E+08	1,323835E+09	1,323837E+09	9,863245E+08	5,465173E+08
-1494	1,917889E+08	1,721266E+07	0,000000E+00	0,000000E+00	1,720940E+07	1,917735E+08	5,464981E+08	9,862973E+08	1,323812E+09	1,323833E+09	9,863386E+08	5,465293E+08
-1493	1,917850E+08	1,721058E+07	0,000000E+00	0,000000E+00	1,721442E+07	1,918015E+08	5,465410E+08	9,863421E+08	1,323825E+09	1,323794E+09	9,862670E+08	5,464769E+08
-1492	1,917673E+08	1,720808E+07	0,000000E+00	0,000000E+00	1,720803E+07	1,917674E+08	5,464754E+08	9,862497E+08	1,323753E+09	1,323774E+09	9,863023E+08	5,465282E+08
-1491	1,918085E+08	1,722082E+07	0,000000E+00	0,000000E+00	1,721896E+07	1,917956E+08	5,465049E+08	9,862561E+08	1,323715E+09	1,323716E+09	9,862546E+08	5,464985E+08
-1490	1,917871E+08	1,721650E+07	0,000000E+00	0,000000E+00	1,721990E+07	1,918011E+08	5,465069E+08	9,862547E+08	1,323701E+09	1,323668E+09	9,861890E+08	5,464674E+08
-1489	1,917934E+08	1,722289E+07	0,000000E+00	0,000000E+00	1,722001E+07	1,917773E+08	5,464442E+08	9,861532E+08	1,323611E+09	1,323635E+09	9,862122E+08	5,465079E+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	1,918228E+08	1,723110E+07	0,000000E+00	0,000000E+00	1,723264E+07	1,918232E+08	5,464943E+08	9,861728E+08	1,323579E+09	1,323569E+09	9,861358E+08	5,464462E+08
-1487	1,917876E+08	1,722524E+07	0,000000E+00	0,000000E+00	1,722877E+07	1,918074E+08	5,464692E+08	9,861395E+08	1,323543E+09	1,323536E+09	9,861263E+08	5,464653E+08
-1486	1,918151E+08	1,723409E+07	0,000000E+00	0,000000E+00	1,723127E+07	1,918008E+08	5,464478E+08	9,861011E+08	1,323509E+09	1,323530E+09	9,861477E+08	5,464894E+08
-1485	1,918231E+08	1,723484E+07	0,000000E+00	0,000000E+00	1,723777E+07	1,918340E+08	5,465009E+08	9,861656E+08	1,323545E+09	1,323510E+09	9,860828E+08	5,464300E+08
-1484	1,917951E+08	1,722985E+07	0,000000E+00	0,000000E+00	1,722880E+07	1,917955E+08	5,464413E+08	9,861039E+08	1,323525E+09	1,323538E+09	9,861413E+08	5,464827E+08
-1483	1,918293E+08	1,723758E+07	0,000000E+00	0,000000E+00	1,723251E+07	1,918074E+08	5,464599E+08	9,861246E+08	1,323541E+09	1,323556E+09	9,861555E+08	5,464785E+08
-1482	1,918079E+08	1,723044E+07	0,000000E+00	0,000000E+00	1,723276E+07	1,918206E+08	5,464924E+08	9,861826E+08	1,323597E+09	1,323577E+09	9,861328E+08	5,464477E+08
-1481	1,917942E+08	1,722583E+07	0,000000E+00	0,000000E+00	1,722267E+07	1,917840E+08	5,464448E+08	9,861385E+08	1,323589E+09	1,323621E+09	9,862103E+08	5,465069E+08
-1480	1,918201E+08	1,722952E+07	0,000000E+00	0,000000E+00	1,722869E+07	1,918155E+08	5,465028E+08	9,862111E+08	1,323637E+09	1,323635E+09	9,861947E+08	5,464711E+08
-1479	1,917824E+08	1,721825E+07	0,000000E+00	0,000000E+00	1,722038E+07	1,917979E+08	5,464987E+08	9,862420E+08	1,323691E+09	1,323671E+09	9,862050E+08	5,464789E+08
-1478	1,917935E+08	1,721959E+07	0,000000E+00	0,000000E+00	1,721527E+07	1,917738E+08	5,464634E+08	9,862111E+08	1,323698E+09	1,323724E+09	9,862686E+08	5,465184E+08
-1477	1,918084E+08	1,722210E+07	0,000000E+00	0,000000E+00	1,722260E+07	1,918092E+08	5,465201E+08	9,862771E+08	1,323737E+09	1,323720E+09	9,862261E+08	5,464639E+08
-1476	1,917715E+08	1,721278E+07	0,000000E+00	0,000000E+00	1,721312E+07	1,917797E+08	5,464780E+08	9,862292E+08	1,323710E+09	1,323721E+09	9,862552E+08	5,465027E+08
-1475	1,918013E+08	1,722148E+07	0,000000E+00	0,000000E+00	1,721803E+07	1,917853E+08	5,464805E+08	9,862189E+08	1,323685E+09	1,323704E+09	9,862596E+08	5,465127E+08
-1474	1,917988E+08	1,721973E+07	0,000000E+00	0,000000E+00	1,722343E+07	1,918122E+08	5,465206E+08	9,862641E+08	1,323701E+09	1,323669E+09	9,861878E+08	5,464581E+08
-1473	1,917811E+08	1,721790E+07	0,000000E+00	0,000000E+00	1,721763E+07	1,917800E+08	5,464604E+08	9,861810E+08	1,323634E+09	1,323644E+09	9,862114E+08	5,465023E+08
-1472	1,918202E+08	1,723035E+07	0,000000E+00	0,000000E+00	1,722892E+07	1,918084E+08	5,464836E+08	9,861764E+08	1,323597E+09	1,323595E+09	9,861691E+08	5,464703E+08
-1471	1,917966E+08	1,722587E+07	0,000000E+00	0,000000E+00	1,722996E+07	1,918142E+08	5,464827E+08	9,861647E+08	1,323568E+09	1,323542E+09	9,861091E+08	5,464446E+08
-1470	1,918028E+08	1,723172E+07	0,000000E+00	0,000000E+00	1,723009E+07	1,917931E+08	5,464271E+08	9,860705E+08	1,323486E+09	1,323516E+09	9,861361E+08	5,464877E+08
-1469	1,918344E+08	1,724022E+07	0,000000E+00	0,000000E+00	1,724150E+07	1,918354E+08	5,464799E+08	9,861039E+08	1,323466E+09	1,323454E+09	9,860627E+08	5,464296E+08
-1468	1,918003E+08	1,723429E+07	0,000000E+00	0,000000E+00	1,723754E+07	1,918182E+08	5,464494E+08	9,860644E+08	1,323426E+09	1,323414E+09	9,860464E+08	5,464469E+08
-1467	1,918290E+08	1,724344E+07	0,000000E+00	0,000000E+00	1,723903E+07	1,918087E+08	5,464268E+08	9,860306E+08	1,323404E+09	1,323420E+09	9,860728E+08	5,464706E+08
-1466	1,918364E+08	1,724424E+07	0,000000E+00	0,000000E+00	1,724588E+07	1,918405E+08	5,464740E+08	9,860879E+08	1,323439E+09	1,323413E+09	9,860218E+08	5,464138E+08
-1465	1,918062E+08	1,723864E+07	0,000000E+00	0,000000E+00	1,723728E+07	1,918061E+08	5,464234E+08	9,860347E+08	1,323417E+09	1,323433E+09	9,860736E+08	5,464632E+08
-1464	1,918368E+08	1,724480E+07	0,000000E+00	0,000000E+00	1,724091E+07	1,918200E+08	5,464445E+08	9,860551E+08	1,323434E+09	1,323454E+09	9,860901E+08	5,464590E+08
-1463	1,918142E+08	1,723688E+07	0,000000E+00	0,000000E+00	1,724023E+07	1,918309E+08	5,464771E+08	9,861154E+08	1,323488E+09	1,323470E+09	9,860680E+08	5,464321E+08
-1462	1,918022E+08	1,723205E+07	0,000000E+00	0,000000E+00	1,722962E+07	1,917942E+08	5,464326E+08	9,860834E+08	1,323501E+09	1,323530E+09	9,861468E+08	5,464903E+08
-1461	1,918307E+08	1,723695E+07	0,000000E+00	0,000000E+00	1,723477E+07	1,918210E+08	5,464859E+08	9,861572E+08	1,323557E+09	1,323551E+09	9,861364E+08	5,464556E+08
-1460	1,917931E+08	1,722603E+07	0,000000E+00	0,000000E+00	1,722743E+07	1,918049E+08	5,464756E+08	9,861703E+08	1,323591E+09	1,323573E+09	9,861405E+08	5,464616E+08
-1459	1,918043E+08	1,722790E+07	0,000000E+00	0,000000E+00	1,722294E+07	1,917837E+08	5,464448E+08	9,861404E+08	1,323592E+09	1,323620E+09	9,862031E+08	5,465012E+08
-1458	1,918180E+08	1,723026E+07	0,000000E+00	0,000000E+00	1,723117E+07	1,918208E+08	5,465034E+08	9,862050E+08	1,323625E+09	1,323614E+09	9,861631E+08	5,464488E+08
-1457	1,917813E+08	1,722084E+07	0,000000E+00	0,000000E+00	1,722226E+07	1,917949E+08	5,464725E+08	9,861734E+08	1,323602E+09	1,323602E+09	9,861760E+08	5,464812E+08
-1456	1,918105E+08	1,722932E+07	0,000000E+00	0,000000E+00	1,722712E+07	1,917986E+08	5,464680E+08	9,861568E+08	1,323582E+09	1,323592E+09	9,861799E+08	5,464883E+08
-1455	1,918081E+08	1,722805E+07	0,000000E+00	0,000000E+00	1,723198E+07	1,918214E+08	5,464975E+08	9,861865E+08	1,323587E+09	1,323554E+09	9,861111E+08	5,464371E+08
-1454	1,917922E+08	1,722696E+07	0,000000E+00	0,000000E+00	1,722699E+07	1,917908E+08	5,464350E+08	9,860978E+08	1,323519E+09	1,323535E+09	9,861373E+08	5,464819E+08
-1453	1,918334E+08	1,724028E+07	0,000000E+00	0,000000E+00	1,723796E+07	1,918178E+08	5,464559E+08	9,860862E+08	1,323469E+09	1,323476E+09	9,860956E+08	5,464527E+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												
-1452	1,918092E+08	1,723563E+07	0,000000E+00	0,000000E+00	1,723988E+07	1,918270E+08	5,464569E+08	9,860660E+08	1,323419E+09	1,323400E+09	9,860238E+08	5,464265E+08
-1451	1,918172E+08	1,724171E+07	0,000000E+00	0,000000E+00	1,723940E+07	1,918058E+08	5,464094E+08	9,859896E+08	1,323351E+09	1,323375E+09	9,860477E+08	5,464670E+08
-1450	1,918481E+08	1,725009E+07	0,000000E+00	0,000000E+00	1,725053E+07	1,918453E+08	5,464591E+08	9,860283E+08	1,323347E+09	1,323331E+09	9,859831E+08	5,464103E+08
-1449	1,918142E+08	1,724431E+07	0,000000E+00	0,000000E+00	1,724669E+07	1,918299E+08	5,464353E+08	9,860010E+08	1,323321E+09	1,323299E+09	9,859640E+08	5,464222E+08
-1448	1,918391E+08	1,725229E+07	0,000000E+00	0,000000E+00	1,724803E+07	1,918199E+08	5,464066E+08	9,859600E+08	1,323304E+09	1,323321E+09	9,860021E+08	5,464458E+08
-1447	1,918436E+08	1,725223E+07	0,000000E+00	0,000000E+00	1,725451E+07	1,918514E+08	5,464524E+08	9,860105E+08	1,323329E+09	1,323312E+09	9,859607E+08	5,463977E+08
-1446	1,918135E+08	1,724556E+07	0,000000E+00	0,000000E+00	1,724572E+07	1,918195E+08	5,464096E+08	9,859694E+08	1,323319E+09	1,323339E+09	9,860142E+08	5,464492E+08
-1445	1,918458E+08	1,725163E+07	0,000000E+00	0,000000E+00	1,724779E+07	1,918290E+08	5,464316E+08	9,859998E+08	1,323343E+09	1,323360E+09	9,860322E+08	5,464471E+08
-1444	1,918242E+08	1,724373E+07	0,000000E+00	0,000000E+00	1,724698E+07	1,918387E+08	5,464593E+08	9,860518E+08	1,323390E+09	1,323368E+09	9,860017E+08	5,464172E+08
-1443	1,918136E+08	1,723960E+07	0,000000E+00	0,000000E+00	1,723583E+07	1,918006E+08	5,464158E+08	9,860246E+08	1,323411E+09	1,323432E+09	9,860807E+08	5,464715E+08
-1442	1,918403E+08	1,724493E+07	0,000000E+00	0,000000E+00	1,724194E+07	1,918273E+08	5,464637E+08	9,860900E+08	1,323462E+09	1,323461E+09	9,860786E+08	5,464397E+08
-1441	1,918027E+08	1,723406E+07	0,000000E+00	0,000000E+00	1,723573E+07	1,918177E+08	5,464640E+08	9,861085E+08	1,323489E+09	1,323469E+09	9,860706E+08	5,464404E+08
-1440	1,918105E+08	1,723490E+07	0,000000E+00	0,000000E+00	1,723169E+07	1,917979E+08	5,464335E+08	9,860763E+08	1,323488E+09	1,323515E+09	9,861333E+08	5,464803E+08
-1439	1,918248E+08	1,723724E+07	0,000000E+00	0,000000E+00	1,723933E+07	1,918319E+08	5,464881E+08	9,861375E+08	1,323514E+09	1,323500E+09	9,860932E+08	5,464336E+08
-1438	1,917917E+08	1,722852E+07	0,000000E+00	0,000000E+00	1,723054E+07	1,918051E+08	5,464537E+08	9,861072E+08	1,323502E+09	1,323496E+09	9,861033E+08	5,464640E+08
-1437	1,918243E+08	1,723866E+07	0,000000E+00	0,000000E+00	1,723477E+07	1,918043E+08	5,464414E+08	9,860809E+08	1,323476E+09	1,323487E+09	9,861108E+08	5,464723E+08
-1436	1,918225E+08	1,723802E+07	0,000000E+00	0,000000E+00	1,724082E+07	1,918292E+08	5,464647E+08	9,860886E+08	1,323452E+09	1,323428E+09	9,860315E+08	5,464182E+08
-1435	1,918068E+08	1,723750E+07	0,000000E+00	0,000000E+00	1,723650E+07	1,918028E+08	5,464107E+08	9,860056E+08	1,323380E+09	1,323398E+09	9,860522E+08	5,464604E+08
-1434	1,918456E+08	1,725043E+07	0,000000E+00	0,000000E+00	1,724813E+07	1,918316E+08	5,464355E+08	9,859996E+08	1,323332E+09	1,323341E+09	9,860126E+08	5,464333E+08
-1433	1,918220E+08	1,724553E+07	0,000000E+00	0,000000E+00	1,725040E+07	1,918443E+08	5,464489E+08	9,859988E+08	1,323295E+09	1,323261E+09	9,859283E+08	5,463995E+08
-1432	1,918273E+08	1,725076E+07	0,000000E+00	0,000000E+00	1,724940E+07	1,918206E+08	5,463963E+08	9,859239E+08	1,323243E+09	1,323257E+09	9,859615E+08	5,464387E+08
-1431	1,918567E+08	1,725891E+07	0,000000E+00	0,000000E+00	1,725960E+07	1,918555E+08	5,464370E+08	9,859527E+08	1,323237E+09	1,323221E+09	9,859105E+08	5,463904E+08
-1430	1,918244E+08	1,725313E+07	0,000000E+00	0,000000E+00	1,725601E+07	1,918407E+08	5,464109E+08	9,859254E+08	1,323221E+09	1,323205E+09	9,859003E+08	5,464051E+08
-1429	1,918499E+08	1,726087E+07	0,000000E+00	0,000000E+00	1,725622E+07	1,918290E+08	5,463826E+08	9,858815E+08	1,323196E+09	1,323224E+09	9,859447E+08	5,464339E+08
-1428	1,918539E+08	1,726005E+07	0,000000E+00	0,000000E+00	1,726257E+07	1,918612E+08	5,464296E+08	9,859266E+08	1,323203E+09	1,323194E+09	9,858925E+08	5,463856E+08
-1427	1,918258E+08	1,725332E+07	0,000000E+00	0,000000E+00	1,725281E+07	1,918291E+08	5,463955E+08	9,859048E+08	1,323208E+09	1,323220E+09	9,859410E+08	5,464334E+08
-1426	1,918569E+08	1,725939E+07	0,000000E+00	0,000000E+00	1,725465E+07	1,918358E+08	5,464136E+08	9,859389E+08	1,323247E+09	1,323258E+09	9,859650E+08	5,464316E+08
-1425	1,918356E+08	1,725177E+07	0,000000E+00	0,000000E+00	1,725434E+07	1,918490E+08	5,464489E+08	9,859997E+08	1,323302E+09	1,323270E+09	9,859288E+08	5,463939E+08
-1424	1,918210E+08	1,724688E+07	0,000000E+00	0,000000E+00	1,724363E+07	1,918118E+08	5,464019E+08	9,859679E+08	1,323327E+09	1,323348E+09	9,860171E+08	5,464466E+08
-1423	1,918444E+08	1,725159E+07	0,000000E+00	0,000000E+00	1,724971E+07	1,918382E+08	5,464477E+08	9,860248E+08	1,323365E+09	1,323369E+09	9,860216E+08	5,464246E+08
-1422	1,918094E+08	1,724063E+07	0,000000E+00	0,000000E+00	1,724376E+07	1,918304E+08	5,464520E+08	9,860529E+08	1,323404E+09	1,323382E+09	9,860120E+08	5,464267E+08
-1421	1,918200E+08	1,724204E+07	0,000000E+00	0,000000E+00	1,723874E+07	1,918061E+08	5,464175E+08	9,860182E+08	1,323398E+09	1,323420E+09	9,860731E+08	5,464684E+08
-1420	1,918365E+08	1,724508E+07	0,000000E+00	0,000000E+00	1,724650E+07	1,918377E+08	5,464620E+08	9,860594E+08	1,323402E+09	1,323389E+09	9,860213E+08	5,464196E+08
-1419	1,918067E+08	1,723794E+07	0,000000E+00	0,000000E+00	1,723831E+07	1,918120E+08	5,464279E+08	9,860260E+08	1,323383E+09	1,323377E+09	9,860265E+08	5,464453E+08
-1418	1,918378E+08	1,724882E+07	0,000000E+00	0,000000E+00	1,724390E+07	1,918125E+08	5,464100E+08	9,859868E+08	1,323345E+09	1,323364E+09	9,860351E+08	5,464545E+08
-1417	1,918360E+08	1,724827E+07	0,000000E+00	0,000000E+00	1,725142E+07	1,918458E+08	5,464476E+08	9,860004E+08	1,323310E+09	1,323286E+09	9,859388E+08	5,463921E+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	1,918165E+08	1,724684E+07	0,000000E+00	0,000000E+00	1,724749E+07	1,918208E+08	5,463972E+08	9,859250E+08	1,323246E+09	1,323260E+09	9,859578E+08	5,464303E+08
-1415	1,918531E+08	1,725910E+07	0,000000E+00	0,000000E+00	1,725817E+07	1,918462E+08	5,464201E+08	9,859240E+08	1,323205E+09	1,323206E+09	9,859229E+08	5,464102E+08
-1414	1,918330E+08	1,725466E+07	0,000000E+00	0,000000E+00	1,726026E+07	1,918575E+08	5,464312E+08	9,859325E+08	1,323195E+09	1,323150E+09	9,858469E+08	5,463775E+08
-1413	1,918399E+08	1,726037E+07	0,000000E+00	0,000000E+00	1,725804E+07	1,918292E+08	5,463729E+08	9,858514E+08	1,323142E+09	1,323157E+09	9,858939E+08	5,464219E+08
-1412	1,918691E+08	1,726829E+07	0,000000E+00	0,000000E+00	1,726836E+07	1,918639E+08	5,464072E+08	9,858623E+08	1,323113E+09	1,323109E+09	9,858427E+08	5,463770E+08
-1411	1,918383E+08	1,726263E+07	0,000000E+00	0,000000E+00	1,726469E+07	1,918518E+08	5,463897E+08	9,858430E+08	1,323096E+09	1,323087E+09	9,858320E+08	5,463905E+08
-1410	1,918612E+08	1,726943E+07	0,000000E+00	0,000000E+00	1,726464E+07	1,918396E+08	5,463634E+08	9,858061E+08	1,323079E+09	1,323111E+09	9,858777E+08	5,464212E+08
-1409	1,918660E+08	1,726822E+07	0,000000E+00	0,000000E+00	1,727081E+07	1,918746E+08	5,464214E+08	9,858680E+08	1,323098E+09	1,323077E+09	9,858114E+08	5,463629E+08
-1408	1,918344E+08	1,726058E+07	0,000000E+00	0,000000E+00	1,726041E+07	1,918401E+08	5,463839E+08	9,858515E+08	1,323122E+09	1,323124E+09	9,858662E+08	5,464063E+08
-1407	1,918625E+08	1,726626E+07	0,000000E+00	0,000000E+00	1,726170E+07	1,918435E+08	5,463957E+08	9,858789E+08	1,323160E+09	1,323169E+09	9,859026E+08	5,464132E+08
-1406	1,918435E+08	1,725894E+07	0,000000E+00	0,000000E+00	1,726194E+07	1,918581E+08	5,464289E+08	9,859397E+08	1,323224E+09	1,323193E+09	9,858741E+08	5,463782E+08
-1405	1,918291E+08	1,725400E+07	0,000000E+00	0,000000E+00	1,725065E+07	1,918206E+08	5,463836E+08	9,859031E+08	1,323236E+09	1,323265E+09	9,859677E+08	5,464363E+08
-1404	1,918532E+08	1,725845E+07	0,000000E+00	0,000000E+00	1,725681E+07	1,918463E+08	5,464269E+08	9,859490E+08	1,323252E+09	1,323263E+09	9,859602E+08	5,464153E+08
-1403	1,918225E+08	1,724847E+07	0,000000E+00	0,000000E+00	1,725060E+07	1,918381E+08	5,464343E+08	9,859851E+08	1,323293E+09	1,323269E+09	9,859422E+08	5,464125E+08
-1402	1,918329E+08	1,725077E+07	0,000000E+00	0,000000E+00	1,724629E+07	1,918124E+08	5,463925E+08	9,859431E+08	1,323289E+09	1,323311E+09	9,860021E+08	5,464536E+08
-1401	1,918510E+08	1,725461E+07	0,000000E+00	0,000000E+00	1,725520E+07	1,918487E+08	5,464422E+08	9,859819E+08	1,323284E+09	1,323266E+09	9,859351E+08	5,463939E+08
-1400	1,918173E+08	1,724721E+07	0,000000E+00	0,000000E+00	1,724838E+07	1,918269E+08	5,464091E+08	9,859460E+08	1,323262E+09	1,323256E+09	9,859403E+08	5,464150E+08
-1399	1,918444E+08	1,725740E+07	0,000000E+00	0,000000E+00	1,725422E+07	1,918286E+08	5,463935E+08	9,859045E+08	1,323214E+09	1,323234E+09	9,859512E+08	5,464319E+08
-1398	1,918449E+08	1,725672E+07	0,000000E+00	0,000000E+00	1,726195E+07	1,918632E+08	5,464359E+08	9,859341E+08	1,323201E+09	1,323166E+09	9,858559E+08	5,463699E+08
-1397	1,918270E+08	1,725565E+07	0,000000E+00	0,000000E+00	1,725672E+07	1,918339E+08	5,463834E+08	9,858609E+08	1,323141E+09	1,323148E+09	9,858815E+08	5,464110E+08
-1396	1,918644E+08	1,726797E+07	0,000000E+00	0,000000E+00	1,726670E+07	1,918548E+08	5,463952E+08	9,858430E+08	1,323088E+09	1,323089E+09	9,858450E+08	5,463927E+08
-1395	1,918486E+08	1,726498E+07	0,000000E+00	0,000000E+00	1,726888E+07	1,918654E+08	5,464048E+08	9,858494E+08	1,323075E+09	1,323036E+09	9,857745E+08	5,463601E+08
-1394	1,918541E+08	1,727082E+07	0,000000E+00	0,000000E+00	1,726735E+07	1,918377E+08	5,463412E+08	9,857578E+08	1,323016E+09	1,323043E+09	9,858263E+08	5,464087E+08
-1393	1,918832E+08	1,727812E+07	0,000000E+00	0,000000E+00	1,727811E+07	1,918785E+08	5,463886E+08	9,857753E+08	1,322978E+09	1,322978E+09	9,857601E+08	5,463568E+08
-1392	1,918493E+08	1,727128E+07	0,000000E+00	0,000000E+00	1,727427E+07	1,918668E+08	5,463760E+08	9,857690E+08	1,322973E+09	1,322963E+09	9,857487E+08	5,463655E+08
-1391	1,918690E+08	1,727683E+07	0,000000E+00	0,000000E+00	1,727272E+07	1,918505E+08	5,463477E+08	9,857384E+08	1,322967E+09	1,322992E+09	9,857994E+08	5,464011E+08
-1390	1,918759E+08	1,727589E+07	0,000000E+00	0,000000E+00	1,727849E+07	1,918839E+08	5,464049E+08	9,858136E+08	1,323019E+09	1,322987E+09	9,857434E+08	5,463428E+08
-1389	1,918442E+08	1,726829E+07	0,000000E+00	0,000000E+00	1,726710E+07	1,918470E+08	5,463654E+08	9,857942E+08	1,323044E+09	1,323047E+09	9,858112E+08	5,463889E+08
-1388	1,918699E+08	1,727329E+07	0,000000E+00	0,000000E+00	1,726854E+07	1,918506E+08	5,463729E+08	9,858070E+08	1,323062E+09	1,323081E+09	9,858478E+08	5,464003E+08
-1387	1,918540E+08	1,726653E+07	0,000000E+00	0,000000E+00	1,726899E+07	1,918680E+08	5,464147E+08	9,858757E+08	1,323123E+09	1,323099E+09	9,858199E+08	5,463664E+08
-1386	1,918385E+08	1,726125E+07	0,000000E+00	0,000000E+00	1,725799E+07	1,918298E+08	5,463677E+08	9,858400E+08	1,323137E+09	1,323168E+09	9,859096E+08	5,464265E+08
-1385	1,918650E+08	1,726596E+07	0,000000E+00	0,000000E+00	1,726443E+07	1,918580E+08	5,464161E+08	9,858887E+08	1,323149E+09	1,323152E+09	9,858837E+08	5,463952E+08
-1384	1,918329E+08	1,725619E+07	0,000000E+00	0,000000E+00	1,725864E+07	1,918485E+08	5,464179E+08	9,859199E+08	1,323193E+09	1,323164E+09	9,858641E+08	5,463853E+08
-1383	1,918404E+08	1,725860E+07	0,000000E+00	0,000000E+00	1,725477E+07	1,918220E+08	5,463697E+08	9,858654E+08	1,323175E+09	1,323200E+09	9,859271E+08	5,464319E+08
-1382	1,918607E+08	1,726311E+07	0,000000E+00	0,000000E+00	1,726469E+07	1,918612E+08	5,464198E+08	9,859060E+08	1,323178E+09	1,323159E+09	9,858610E+08	5,463723E+08
-1381	1,918269E+08	1,725580E+07	0,000000E+00	0,000000E+00	1,725769E+07	1,918409E+08	5,463923E+08	9,858692E+08	1,323144E+09	1,323141E+09	9,858663E+08	5,463956E+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	1,918537E+08	1,726564E+07	0,000000E+00	0,000000E+00	1,726320E+07	1,918406E+08	5,463743E+08	9,858221E+08	1,323081E+09	1,323102E+09	9,858680E+08	5,464143E+08
-1379	1,918598E+08	1,726640E+07	0,000000E+00	0,000000E+00	1,727057E+07	1,918738E+08	5,464176E+08	9,858587E+08	1,323075E+09	1,323037E+09	9,857740E+08	5,463511E+08
-1378	1,918420E+08	1,726627E+07	0,000000E+00	0,000000E+00	1,726576E+07	1,918418E+08	5,463563E+08	9,857784E+08	1,323024E+09	1,323031E+09	9,858051E+08	5,463949E+08
-1377	1,918811E+08	1,727888E+07	0,000000E+00	0,000000E+00	1,727640E+07	1,918667E+08	5,463712E+08	9,857546E+08	1,322960E+09	1,322964E+09	9,857597E+08	5,463692E+08
-1376	1,918621E+08	1,727552E+07	0,000000E+00	0,000000E+00	1,727945E+07	1,918794E+08	5,463812E+08	9,857600E+08	1,322946E+09	1,322915E+09	9,856927E+08	5,463340E+08
-1375	1,918634E+08	1,727990E+07	0,000000E+00	0,000000E+00	1,727754E+07	1,918526E+08	5,463218E+08	9,856718E+08	1,322883E+09	1,322916E+09	9,857480E+08	5,463899E+08
-1374	1,918937E+08	1,728648E+07	0,000000E+00	0,000000E+00	1,728764E+07	1,918923E+08	5,463731E+08	9,857091E+08	1,322872E+09	1,322863E+09	9,856820E+08	5,463363E+08
-1373	1,918594E+08	1,727922E+07	0,000000E+00	0,000000E+00	1,728225E+07	1,918777E+08	5,463623E+08	9,857094E+08	1,322878E+09	1,322861E+09	9,856785E+08	5,463460E+08
-1372	1,918776E+08	1,728410E+07	0,000000E+00	0,000000E+00	1,727958E+07	1,918572E+08	5,463270E+08	9,856704E+08	1,322867E+09	1,322892E+09	9,857316E+08	5,463832E+08
-1371	1,918877E+08	1,728420E+07	0,000000E+00	0,000000E+00	1,728531E+07	1,918905E+08	5,463846E+08	9,857465E+08	1,322919E+09	1,322896E+09	9,856872E+08	5,463276E+08
-1370	1,918544E+08	1,727653E+07	0,000000E+00	0,000000E+00	1,727457E+07	1,918549E+08	5,463429E+08	9,857224E+08	1,322946E+09	1,322960E+09	9,857598E+08	5,463783E+08
-1369	1,918802E+08	1,728082E+07	0,000000E+00	0,000000E+00	1,727646E+07	1,918639E+08	5,463609E+08	9,857387E+08	1,322952E+09	1,322975E+09	9,857799E+08	5,463828E+08
-1368	1,918630E+08	1,727362E+07	0,000000E+00	0,000000E+00	1,727691E+07	1,918801E+08	5,464041E+08	9,858165E+08	1,323022E+09	1,322994E+09	9,857482E+08	5,463444E+08
-1367	1,918456E+08	1,726775E+07	0,000000E+00	0,000000E+00	1,726540E+07	1,918393E+08	5,463527E+08	9,857790E+08	1,323036E+09	1,323061E+09	9,858382E+08	5,464086E+08
-1366	1,918750E+08	1,727336E+07	0,000000E+00	0,000000E+00	1,727196E+07	1,918656E+08	5,463963E+08	9,858311E+08	1,323067E+09	1,323060E+09	9,858154E+08	5,463751E+08
-1365	1,918431E+08	1,726416E+07	0,000000E+00	0,000000E+00	1,726625E+07	1,918574E+08	5,463979E+08	9,858523E+08	1,323098E+09	1,323072E+09	9,858021E+08	5,463662E+08
-1364	1,918488E+08	1,726643E+07	0,000000E+00	0,000000E+00	1,726290E+07	1,918319E+08	5,463470E+08	9,857832E+08	1,323056E+09	1,323089E+09	9,858574E+08	5,464142E+08
-1363	1,918727E+08	1,727195E+07	0,000000E+00	0,000000E+00	1,727325E+07	1,918740E+08	5,464048E+08	9,858303E+08	1,323052E+09	1,323040E+09	9,857902E+08	5,463559E+08
-1362	1,918391E+08	1,726509E+07	0,000000E+00	0,000000E+00	1,726679E+07	1,918528E+08	5,463749E+08	9,857962E+08	1,323027E+09	1,323021E+09	9,857905E+08	5,463794E+08
-1361	1,918675E+08	1,727506E+07	0,000000E+00	0,000000E+00	1,727248E+07	1,918542E+08	5,463590E+08	9,857479E+08	1,322961E+09	1,322972E+09	9,857778E+08	5,463892E+08
-1360	1,918732E+08	1,727651E+07	0,000000E+00	0,000000E+00	1,728032E+07	1,918853E+08	5,463962E+08	9,857799E+08	1,322958E+09	1,322918E+09	9,856882E+08	5,463236E+08
-1359	1,918530E+08	1,727618E+07	0,000000E+00	0,000000E+00	1,727598E+07	1,918527E+08	5,463278E+08	9,856859E+08	1,322892E+09	1,322906E+09	9,857257E+08	5,463744E+08
-1358	1,918938E+08	1,728883E+07	0,000000E+00	0,000000E+00	1,728692E+07	1,918794E+08	5,463444E+08	9,856674E+08	1,322838E+09	1,322845E+09	9,856832E+08	5,463493E+08
-1357	1,918738E+08	1,728490E+07	0,000000E+00	0,000000E+00	1,728947E+07	1,918940E+08	5,463623E+08	9,856754E+08	1,322816E+09	1,322792E+09	9,856178E+08	5,463155E+08
-1356	1,918731E+08	1,728803E+07	0,000000E+00	0,000000E+00	1,728618E+07	1,918639E+08	5,463021E+08	9,855897E+08	1,322750E+09	1,322782E+09	9,856651E+08	5,463713E+08
-1355	1,919071E+08	1,729535E+07	0,000000E+00	0,000000E+00	1,729532E+07	1,919015E+08	5,463561E+08	9,856395E+08	1,322756E+09	1,322744E+09	9,856068E+08	5,463176E+08
-1354	1,918721E+08	1,728841E+07	0,000000E+00	0,000000E+00	1,728990E+07	1,918847E+08	5,463403E+08	9,856412E+08	1,322779E+09	1,322761E+09	9,856114E+08	5,463293E+08
-1353	1,918896E+08	1,729272E+07	0,000000E+00	0,000000E+00	1,728757E+07	1,918686E+08	5,463107E+08	9,856022E+08	1,322764E+09	1,322790E+09	9,856600E+08	5,463604E+08
-1352	1,918969E+08	1,729245E+07	0,000000E+00	0,000000E+00	1,729385E+07	1,919032E+08	5,463708E+08	9,856821E+08	1,322821E+09	1,322801E+09	9,856232E+08	5,463061E+08
-1351	1,918603E+08	1,728325E+07	0,000000E+00	0,000000E+00	1,728276E+07	1,918676E+08	5,463315E+08	9,856619E+08	1,322846E+09	1,322862E+09	9,856992E+08	5,463637E+08
-1350	1,918880E+08	1,728723E+07	0,000000E+00	0,000000E+00	1,728397E+07	1,918740E+08	5,463497E+08	9,856927E+08	1,322876E+09	1,322887E+09	9,857192E+08	5,463667E+08
-1349	1,918716E+08	1,728016E+07	0,000000E+00	0,000000E+00	1,728340E+07	1,918877E+08	5,463899E+08	9,857646E+08	1,322943E+09	1,322911E+09	9,856906E+08	5,463279E+08
-1348	1,918535E+08	1,727431E+07	0,000000E+00	0,000000E+00	1,727160E+07	1,918439E+08	5,463294E+08	9,857095E+08	1,322937E+09	1,322964E+09	9,857750E+08	5,463928E+08
-1347	1,918873E+08	1,728173E+07	0,000000E+00	0,000000E+00	1,727893E+07	1,918715E+08	5,463713E+08	9,857531E+08	1,322954E+09	1,322960E+09	9,857565E+08	5,463603E+08
-1346	1,918549E+08	1,727323E+07	0,000000E+00	0,000000E+00	1,727465E+07	1,918670E+08	5,463735E+08	9,857691E+08	1,322979E+09	1,322963E+09	9,857380E+08	5,463531E+08
-1345	1,918612E+08	1,727534E+07	0,000000E+00	0,000000E+00	1,727229E+07	1,918477E+08	5,463331E+08	9,857026E+08	1,322923E+09	1,322955E+09	9,857716E+08	5,463909E+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	1,918842E+08	1,728113E+07	0,000000E+00	0,000000E+00	1,728278E+07	1,918878E+08	5,463908E+08	9,857570E+08	1,322928E+09	1,322909E+09	9,857004E+08	5,463297E+08
-1343	1,918498E+08	1,727422E+07	0,000000E+00	0,000000E+00	1,727639E+07	1,918647E+08	5,463554E+08	9,857207E+08	1,322906E+09	1,322894E+09	9,857042E+08	5,463569E+08
-1342	1,918804E+08	1,728481E+07	0,000000E+00	0,000000E+00	1,728214E+07	1,918641E+08	5,463348E+08	9,856750E+08	1,322857E+09	1,322860E+09	9,856970E+08	5,463650E+08
-1341	1,918852E+08	1,728643E+07	0,000000E+00	0,000000E+00	1,729014E+07	1,918970E+08	5,463720E+08	9,856963E+08	1,322840E+09	1,322807E+09	9,856165E+08	5,463031E+08
-1340	1,918632E+08	1,728546E+07	0,000000E+00	0,000000E+00	1,728589E+07	1,918657E+08	5,463038E+08	9,855931E+08	1,322753E+09	1,322777E+09	9,856484E+08	5,463573E+08
-1339	1,919071E+08	1,729832E+07	0,000000E+00	0,000000E+00	1,729630E+07	1,918925E+08	5,463261E+08	9,855828E+08	1,322700E+09	1,322715E+09	9,856084E+08	5,463330E+08
-1338	1,918871E+08	1,729450E+07	0,000000E+00	0,000000E+00	1,729869E+07	1,919057E+08	5,463438E+08	9,856000E+08	1,322695E+09	1,322668E+09	9,855402E+08	5,462992E+08
-1337	1,918868E+08	1,729712E+07	0,000000E+00	0,000000E+00	1,729481E+07	1,918766E+08	5,462869E+08	9,855180E+08	1,322634E+09	1,322657E+09	9,855757E+08	5,463442E+08
-1336	1,919182E+08	1,730457E+07	0,000000E+00	0,000000E+00	1,730376E+07	1,919112E+08	5,463376E+08	9,855718E+08	1,322653E+09	1,322637E+09	9,855280E+08	5,462913E+08
-1335	1,918806E+08	1,729682E+07	0,000000E+00	0,000000E+00	1,729856E+07	1,918947E+08	5,463190E+08	9,855698E+08	1,322676E+09	1,322661E+09	9,855459E+08	5,463107E+08
-1334	1,918980E+08	1,730037E+07	0,000000E+00	0,000000E+00	1,729605E+07	1,918797E+08	5,462940E+08	9,855427E+08	1,322677E+09	1,322701E+09	9,856006E+08	5,463435E+08
-1333	1,919042E+08	1,729936E+07	0,000000E+00	0,000000E+00	1,730159E+07	1,919148E+08	5,463593E+08	9,856237E+08	1,322728E+09	1,322712E+09	9,855701E+08	5,462937E+08
-1332	1,918674E+08	1,728929E+07	0,000000E+00	0,000000E+00	1,728917E+07	1,918748E+08	5,463151E+08	9,855995E+08	1,322746E+09	1,322760E+09	9,856377E+08	5,463514E+08
-1331	1,918998E+08	1,729449E+07	0,000000E+00	0,000000E+00	1,728984E+07	1,918785E+08	5,463296E+08	9,856288E+08	1,322779E+09	1,322794E+09	9,856625E+08	5,463542E+08
-1330	1,918842E+08	1,728857E+07	0,000000E+00	0,000000E+00	1,728997E+07	1,918919E+08	5,463639E+08	9,856938E+08	1,322847E+09	1,322820E+09	9,856323E+08	5,463152E+08
-1329	1,918658E+08	1,728271E+07	0,000000E+00	0,000000E+00	1,727948E+07	1,918550E+08	5,463094E+08	9,856328E+08	1,322824E+09	1,322853E+09	9,857003E+08	5,463699E+08
-1328	1,918971E+08	1,729046E+07	0,000000E+00	0,000000E+00	1,728794E+07	1,918852E+08	5,463566E+08	9,856808E+08	1,322840E+09	1,322844E+09	9,856801E+08	5,463376E+08
-1327	1,918628E+08	1,728107E+07	0,000000E+00	0,000000E+00	1,728417E+07	1,918821E+08	5,463616E+08	9,857005E+08	1,322860E+09	1,322840E+09	9,856591E+08	5,463329E+08
-1326	1,918704E+08	1,728329E+07	0,000000E+00	0,000000E+00	1,728158E+07	1,918609E+08	5,463219E+08	9,856488E+08	1,322828E+09	1,322843E+09	9,856918E+08	5,463673E+08
-1325	1,918934E+08	1,728940E+07	0,000000E+00	0,000000E+00	1,729152E+07	1,918994E+08	5,463754E+08	9,856929E+08	1,322828E+09	1,322804E+09	9,856279E+08	5,463084E+08
-1324	1,918591E+08	1,728279E+07	0,000000E+00	0,000000E+00	1,728499E+07	1,918726E+08	5,463287E+08	9,856370E+08	1,322787E+09	1,322778E+09	9,856290E+08	5,463381E+08
-1323	1,918944E+08	1,729488E+07	0,000000E+00	0,000000E+00	1,729124E+07	1,918729E+08	5,463052E+08	9,855805E+08	1,322723E+09	1,322743E+09	9,856292E+08	5,463498E+08
-1322	1,918997E+08	1,729710E+07	0,000000E+00	0,000000E+00	1,730008E+07	1,919083E+08	5,463432E+08	9,855988E+08	1,322700E+09	1,322678E+09	9,855418E+08	5,462899E+08
-1321	1,918783E+08	1,729557E+07	0,000000E+00	0,000000E+00	1,729624E+07	1,918820E+08	5,462858E+08	9,855021E+08	1,322603E+09	1,322625E+09	9,855518E+08	5,463335E+08
-1320	1,919207E+08	1,730837E+07	0,000000E+00	0,000000E+00	1,730602E+07	1,919056E+08	5,463089E+08	9,855044E+08	1,322568E+09	1,322572E+09	9,855111E+08	5,463065E+08
-1319	1,918987E+08	1,730395E+07	0,000000E+00	0,000000E+00	1,730814E+07	1,919171E+08	5,463239E+08	9,855253E+08	1,322576E+09	1,322540E+09	9,854527E+08	5,462753E+08
-1318	1,918983E+08	1,730639E+07	0,000000E+00	0,000000E+00	1,730374E+07	1,918864E+08	5,462677E+08	9,854569E+08	1,322543E+09	1,322557E+09	9,855010E+08	5,463186E+08
-1317	1,919264E+08	1,731312E+07	0,000000E+00	0,000000E+00	1,731243E+07	1,919229E+08	5,463204E+08	9,855060E+08	1,322560E+09	1,322549E+09	9,854699E+08	5,462731E+08
-1316	1,918874E+08	1,730424E+07	0,000000E+00	0,000000E+00	1,730657E+07	1,919055E+08	5,463018E+08	9,855007E+08	1,322573E+09	1,322564E+09	9,854882E+08	5,462982E+08
-1315	1,919081E+08	1,730764E+07	0,000000E+00	0,000000E+00	1,730325E+07	1,918893E+08	5,462795E+08	9,854795E+08	1,322577E+09	1,322608E+09	9,855487E+08	5,463340E+08
-1314	1,919152E+08	1,730694E+07	0,000000E+00	0,000000E+00	1,730835E+07	1,919216E+08	5,463410E+08	9,855636E+08	1,322637E+09	1,322621E+09	9,855145E+08	5,462853E+08
-1313	1,918797E+08	1,729668E+07	0,000000E+00	0,000000E+00	1,729599E+07	1,918837E+08	5,462979E+08	9,855341E+08	1,322644E+09	1,322654E+09	9,855649E+08	5,463313E+08
-1312	1,919103E+08	1,730259E+07	0,000000E+00	0,000000E+00	1,729706E+07	1,918851E+08	5,463072E+08	9,855580E+08	1,322676E+09	1,322691E+09	9,855914E+08	5,463330E+08
-1311	1,918930E+08	1,729642E+07	0,000000E+00	0,000000E+00	1,729837E+07	1,919020E+08	5,463416E+08	9,856173E+08	1,322736E+09	1,322713E+09	9,855645E+08	5,462973E+08
-1310	1,918745E+08	1,729041E+07	0,000000E+00	0,000000E+00	1,728841E+07	1,918682E+08	5,462958E+08	9,855716E+08	1,322724E+09	1,322747E+09	9,856276E+08	5,463470E+08
-1309	1,919030E+08	1,729761E+07	0,000000E+00	0,000000E+00	1,729662E+07	1,918995E+08	5,463478E+08	9,856213E+08	1,322737E+09	1,322736E+09	9,856090E+08	5,463181E+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	1,918703E+08	1,728818E+07	0,000000E+00	0,000000E+00	1,729201E+07	1,918922E+08	5,463464E+08	9,856362E+08	1,322753E+09	1,322723E+09	9,855822E+08	5,463147E+08
-1307	1,918826E+08	1,729190E+07	0,000000E+00	0,000000E+00	1,728926E+07	1,918681E+08	5,462997E+08	9,855757E+08	1,322720E+09	1,322737E+09	9,856236E+08	5,463512E+08
-1306	1,919075E+08	1,729944E+07	0,000000E+00	0,000000E+00	1,729992E+07	1,919060E+08	5,463458E+08	9,856087E+08	1,322714E+09	1,322696E+09	9,855607E+08	5,462952E+08
-1305	1,918745E+08	1,729320E+07	0,000000E+00	0,000000E+00	1,729501E+07	1,918859E+08	5,463029E+08	9,855414E+08	1,322648E+09	1,322646E+09	9,855442E+08	5,463159E+08
-1304	1,919080E+08	1,730557E+07	0,000000E+00	0,000000E+00	1,730179E+07	1,918874E+08	5,462833E+08	9,854890E+08	1,322582E+09	1,322604E+09	9,855403E+08	5,463277E+08
-1303	1,919117E+08	1,730680E+07	0,000000E+00	0,000000E+00	1,731083E+07	1,919238E+08	5,463250E+08	9,855149E+08	1,322562E+09	1,322536E+09	9,854507E+08	5,462682E+08
-1302	1,918907E+08	1,730503E+07	0,000000E+00	0,000000E+00	1,730631E+07	1,918958E+08	5,462721E+08	9,854400E+08	1,322495E+09	1,322498E+09	9,854589E+08	5,463043E+08
-1301	1,919295E+08	1,731716E+07	0,000000E+00	0,000000E+00	1,731514E+07	1,919179E+08	5,462934E+08	9,854388E+08	1,322465E+09	1,322462E+09	9,854318E+08	5,462818E+08
-1300	1,919071E+08	1,731252E+07	0,000000E+00	0,000000E+00	1,731661E+07	1,919257E+08	5,463004E+08	9,854492E+08	1,322467E+09	1,322433E+09	9,853817E+08	5,462557E+08
-1299	1,919093E+08	1,731526E+07	0,000000E+00	0,000000E+00	1,731215E+07	1,918961E+08	5,462442E+08	9,853765E+08	1,322433E+09	1,322462E+09	9,854460E+08	5,463056E+08
-1298	1,919376E+08	1,732200E+07	0,000000E+00	0,000000E+00	1,732086E+07	1,919333E+08	5,462992E+08	9,854286E+08	1,322450E+09	1,322451E+09	9,854150E+08	5,462662E+08
-1297	1,919002E+08	1,731231E+07	0,000000E+00	0,000000E+00	1,731476E+07	1,919178E+08	5,462859E+08	9,854271E+08	1,322455E+09	1,322447E+09	9,854145E+08	5,462819E+08
-1296	1,919199E+08	1,731571E+07	0,000000E+00	0,000000E+00	1,731055E+07	1,918975E+08	5,462619E+08	9,854148E+08	1,322473E+09	1,322496E+09	9,854731E+08	5,463158E+08
-1295	1,919257E+08	1,731455E+07	0,000000E+00	0,000000E+00	1,731562E+07	1,919280E+08	5,463186E+08	9,854955E+08	1,322537E+09	1,322516E+09	9,854427E+08	5,462666E+08
-1294	1,918898E+08	1,730433E+07	0,000000E+00	0,000000E+00	1,730347E+07	1,918919E+08	5,462806E+08	9,854791E+08	1,322560E+09	1,322561E+09	9,854948E+08	5,463068E+08
-1293	1,919159E+08	1,730964E+07	0,000000E+00	0,000000E+00	1,730515E+07	1,918979E+08	5,462945E+08	9,854976E+08	1,322584E+09	1,322600E+09	9,855307E+08	5,463138E+08
-1292	1,918980E+08	1,730285E+07	0,000000E+00	0,000000E+00	1,730614E+07	1,919142E+08	5,463293E+08	9,855539E+08	1,322633E+09	1,322610E+09	9,855003E+08	5,462817E+08
-1291	1,918833E+08	1,729748E+07	0,000000E+00	0,000000E+00	1,729600E+07	1,918796E+08	5,462844E+08	9,855112E+08	1,322626E+09	1,322652E+09	9,855678E+08	5,463328E+08
-1290	1,919137E+08	1,730569E+07	0,000000E+00	0,000000E+00	1,730400E+07	1,919074E+08	5,463291E+08	9,855581E+08	1,322642E+09	1,322638E+09	9,855446E+08	5,463060E+08
-1289	1,918842E+08	1,729704E+07	0,000000E+00	0,000000E+00	1,730002E+07	1,919012E+08	5,463235E+08	9,855589E+08	1,322640E+09	1,322608E+09	9,855016E+08	5,462930E+08
-1288	1,918962E+08	1,730210E+07	0,000000E+00	0,000000E+00	1,729819E+07	1,918759E+08	5,462706E+08	9,854880E+08	1,322596E+09	1,322617E+09	9,855429E+08	5,463310E+08
-1287	1,919204E+08	1,730948E+07	0,000000E+00	0,000000E+00	1,731017E+07	1,919174E+08	5,463158E+08	9,855106E+08	1,322575E+09	1,322565E+09	9,854794E+08	5,462772E+08
-1286	1,918879E+08	1,730328E+07	0,000000E+00	0,000000E+00	1,730602E+07	1,919019E+08	5,462851E+08	9,854603E+08	1,322515E+09	1,322509E+09	9,854540E+08	5,462907E+08
-1285	1,919179E+08	1,731475E+07	0,000000E+00	0,000000E+00	1,731235E+07	1,919044E+08	5,462700E+08	9,854111E+08	1,322451E+09	1,322468E+09	9,854510E+08	5,463036E+08
-1284	1,919214E+08	1,731563E+07	0,000000E+00	0,000000E+00	1,732019E+07	1,919359E+08	5,463059E+08	9,854369E+08	1,322435E+09	1,322401E+09	9,853599E+08	5,462450E+08
-1283	1,919037E+08	1,731475E+07	0,000000E+00	0,000000E+00	1,731518E+07	1,919057E+08	5,462496E+08	9,853609E+08	1,322381E+09	1,322387E+09	9,853834E+08	5,462827E+08
-1282	1,919418E+08	1,732719E+07	0,000000E+00	0,000000E+00	1,732387E+07	1,919266E+08	5,462677E+08	9,853596E+08	1,322357E+09	1,322360E+09	9,853653E+08	5,462669E+08
-1281	1,919208E+08	1,732229E+07	0,000000E+00	0,000000E+00	1,732613E+07	1,919393E+08	5,462797E+08	9,853664E+08	1,322345E+09	1,322318E+09	9,853081E+08	5,462371E+08
-1280	1,919210E+08	1,732450E+07	0,000000E+00	0,000000E+00	1,732123E+07	1,919087E+08	5,462274E+08	9,853024E+08	1,322316E+09	1,322347E+09	9,853735E+08	5,462897E+08
-1279	1,919480E+08	1,732989E+07	0,000000E+00	0,000000E+00	1,732948E+07	1,919447E+08	5,462831E+08	9,853610E+08	1,322341E+09	1,322339E+09	9,853450E+08	5,462522E+08
-1278	1,919117E+08	1,731992E+07	0,000000E+00	0,000000E+00	1,732253E+07	1,919277E+08	5,462737E+08	9,853772E+08	1,322369E+09	1,322348E+09	9,853409E+08	5,462582E+08
-1277	1,919264E+08	1,732235E+07	0,000000E+00	0,000000E+00	1,731764E+07	1,919063E+08	5,462462E+08	9,853570E+08	1,322387E+09	1,322408E+09	9,854091E+08	5,462947E+08
-1276	1,919318E+08	1,732117E+07	0,000000E+00	0,000000E+00	1,732229E+07	1,919342E+08	5,462958E+08	9,854269E+08	1,322441E+09	1,322424E+09	9,853821E+08	5,462496E+08
-1275	1,918986E+08	1,731149E+07	0,000000E+00	0,000000E+00	1,731063E+07	1,919011E+08	5,462609E+08	9,854072E+08	1,322461E+09	1,322476E+09	9,854421E+08	5,462926E+08
-1274	1,919245E+08	1,731710E+07	0,000000E+00	0,000000E+00	1,731259E+07	1,919082E+08	5,462792E+08	9,854320E+08	1,322484E+09	1,322505E+09	9,854732E+08	5,463041E+08
-1273	1,919100E+08	1,731051E+07	0,000000E+00	0,000000E+00	1,731387E+07	1,919261E+08	5,463158E+08	9,854865E+08	1,322520E+09	1,322493E+09	9,854245E+08	5,462637E+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	1,918955E+08	1,730610E+07	0,000000E+00	0,000000E+00	1,730363E+07	1,918880E+08	5,462661E+08	9,854450E+08	1,322522E+09	1,322537E+09	9,854889E+08	5,463136E+08
-1271	1,919256E+08	1,731444E+07	0,000000E+00	0,000000E+00	1,731228E+07	1,919148E+08	5,463033E+08	9,854803E+08	1,322532E+09	1,322528E+09	9,854693E+08	5,462876E+08
-1270	1,918976E+08	1,730658E+07	0,000000E+00	0,000000E+00	1,730932E+07	1,919119E+08	5,463019E+08	9,854863E+08	1,322532E+09	1,322498E+09	9,854222E+08	5,462667E+08
-1269	1,919047E+08	1,731109E+07	0,000000E+00	0,000000E+00	1,730860E+07	1,918920E+08	5,462528E+08	9,854068E+08	1,322474E+09	1,322499E+09	9,854669E+08	5,463094E+08
-1268	1,919288E+08	1,731793E+07	0,000000E+00	0,000000E+00	1,732007E+07	1,919320E+08	5,462978E+08	9,854273E+08	1,322441E+09	1,322432E+09	9,853963E+08	5,462574E+08
-1267	1,918997E+08	1,731230E+07	0,000000E+00	0,000000E+00	1,731587E+07	1,919167E+08	5,462696E+08	9,853825E+08	1,322390E+09	1,322385E+09	9,853735E+08	5,462702E+08
-1266	1,919303E+08	1,732435E+07	0,000000E+00	0,000000E+00	1,732141E+07	1,919157E+08	5,462510E+08	9,853365E+08	1,322335E+09	1,322347E+09	9,853697E+08	5,462848E+08
-1265	1,919361E+08	1,732563E+07	0,000000E+00	0,000000E+00	1,732936E+07	1,919466E+08	5,462817E+08	9,853506E+08	1,322308E+09	1,322273E+09	9,852722E+08	5,462206E+08
-1264	1,919177E+08	1,732559E+07	0,000000E+00	0,000000E+00	1,732464E+07	1,919152E+08	5,462224E+08	9,852741E+08	1,322258E+09	1,322266E+09	9,853034E+08	5,462623E+08
-1263	1,919536E+08	1,733689E+07	0,000000E+00	0,000000E+00	1,733382E+07	1,919385E+08	5,462413E+08	9,852693E+08	1,322229E+09	1,322241E+09	9,852909E+08	5,462505E+08
-1262	1,919337E+08	1,733162E+07	0,000000E+00	0,000000E+00	1,733591E+07	1,919533E+08	5,462659E+08	9,852982E+08	1,322230E+09	1,322201E+09	9,852305E+08	5,462153E+08
-1261	1,919296E+08	1,733220E+07	0,000000E+00	0,000000E+00	1,733009E+07	1,919225E+08	5,462161E+08	9,852397E+08	1,322210E+09	1,322236E+09	9,853010E+08	5,462704E+08
-1260	1,919561E+08	1,733692E+07	0,000000E+00	0,000000E+00	1,733644E+07	1,919515E+08	5,462628E+08	9,852946E+08	1,322238E+09	1,322232E+09	9,852738E+08	5,462344E+08
-1259	1,919228E+08	1,732762E+07	0,000000E+00	0,000000E+00	1,732930E+07	1,919339E+08	5,462511E+08	9,853070E+08	1,322276E+09	1,322263E+09	9,852830E+08	5,462411E+08
-1258	1,919366E+08	1,733036E+07	0,000000E+00	0,000000E+00	1,732442E+07	1,919130E+08	5,462238E+08	9,852876E+08	1,322293E+09	1,322323E+09	9,853545E+08	5,462816E+08
-1257	1,919430E+08	1,732908E+07	0,000000E+00	0,000000E+00	1,733000E+07	1,919456E+08	5,462783E+08	9,853534E+08	1,322331E+09	1,322320E+09	9,853169E+08	5,462327E+08
-1256	1,919090E+08	1,731953E+07	0,000000E+00	0,000000E+00	1,731846E+07	1,919130E+08	5,462493E+08	9,853462E+08	1,322359E+09	1,322369E+09	9,853733E+08	5,462762E+08
-1255	1,919331E+08	1,732422E+07	0,000000E+00	0,000000E+00	1,732063E+07	1,919193E+08	5,462661E+08	9,853730E+08	1,322386E+09	1,322401E+09	9,854032E+08	5,462874E+08
-1254	1,919211E+08	1,731832E+07	0,000000E+00	0,000000E+00	1,732171E+07	1,919365E+08	5,463056E+08	9,854375E+08	1,322434E+09	1,322395E+09	9,853500E+08	5,462385E+08
-1253	1,919026E+08	1,731361E+07	0,000000E+00	0,000000E+00	1,731202E+07	1,918988E+08	5,462494E+08	9,853801E+08	1,322425E+09	1,322441E+09	9,854204E+08	5,462914E+08
-1252	1,919333E+08	1,732227E+07	0,000000E+00	0,000000E+00	1,732061E+07	1,919231E+08	5,462765E+08	9,853967E+08	1,322415E+09	1,322419E+09	9,854001E+08	5,462701E+08
-1251	1,919092E+08	1,731543E+07	0,000000E+00	0,000000E+00	1,731882E+07	1,919248E+08	5,462779E+08	9,853949E+08	1,322405E+09	1,322388E+09	9,853554E+08	5,462504E+08
-1250	1,919167E+08	1,732042E+07	0,000000E+00	0,000000E+00	1,731807E+07	1,919054E+08	5,462338E+08	9,853226E+08	1,322342E+09	1,322372E+09	9,853899E+08	5,462949E+08
-1249	1,919441E+08	1,732755E+07	0,000000E+00	0,000000E+00	1,732949E+07	1,919451E+08	5,462782E+08	9,853415E+08	1,322300E+09	1,322286E+09	9,853017E+08	5,462348E+08
-1248	1,919152E+08	1,732304E+07	0,000000E+00	0,000000E+00	1,732512E+07	1,919267E+08	5,462469E+08	9,853013E+08	1,322262E+09	1,322245E+09	9,852771E+08	5,462452E+08
-1247	1,919434E+08	1,733460E+07	0,000000E+00	0,000000E+00	1,733102E+07	1,919254E+08	5,462240E+08	9,852502E+08	1,322211E+09	1,322222E+09	9,852830E+08	5,462608E+08
-1246	1,919502E+08	1,733631E+07	0,000000E+00	0,000000E+00	1,733960E+07	1,919598E+08	5,462631E+08	9,852757E+08	1,322192E+09	1,322156E+09	9,851902E+08	5,461930E+08
-1245	1,919261E+08	1,733483E+07	0,000000E+00	0,000000E+00	1,733531E+07	1,919321E+08	5,462079E+08	9,851983E+08	1,322141E+09	1,322154E+09	9,852312E+08	5,462413E+08
-1244	1,919614E+08	1,734484E+07	0,000000E+00	0,000000E+00	1,734293E+07	1,919513E+08	5,462247E+08	9,851958E+08	1,322112E+09	1,322125E+09	9,852194E+08	5,462346E+08
-1243	1,919454E+08	1,733978E+07	0,000000E+00	0,000000E+00	1,734439E+07	1,919644E+08	5,462481E+08	9,852282E+08	1,322128E+09	1,322103E+09	9,851668E+08	5,461995E+08
-1242	1,919410E+08	1,734029E+07	0,000000E+00	0,000000E+00	1,733719E+07	1,919299E+08	5,461965E+08	9,851738E+08	1,322113E+09	1,322139E+09	9,852375E+08	5,462563E+08
-1241	1,919687E+08	1,734510E+07	0,000000E+00	0,000000E+00	1,734342E+07	1,919574E+08	5,462374E+08	9,852164E+08	1,322127E+09	1,322125E+09	9,852043E+08	5,462154E+08
-1240	1,919344E+08	1,733642E+07	0,000000E+00	0,000000E+00	1,733683E+07	1,919416E+08	5,462278E+08	9,852319E+08	1,322167E+09	1,322157E+09	9,852160E+08	5,462236E+08
-1239	1,919451E+08	1,733792E+07	0,000000E+00	0,000000E+00	1,733274E+07	1,919248E+08	5,462062E+08	9,852148E+08	1,322184E+09	1,322219E+09	9,852894E+08	5,462653E+08
-1238	1,919528E+08	1,733669E+07	0,000000E+00	0,000000E+00	1,733834E+07	1,919599E+08	5,462742E+08	9,853026E+08	1,322233E+09	1,322216E+09	9,852454E+08	5,462102E+08
-1237	1,919150E+08	1,732607E+07	0,000000E+00	0,000000E+00	1,732656E+07	1,919267E+08	5,462438E+08	9,852980E+08	1,322271E+09	1,322270E+09	9,853047E+08	5,462551E+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	1,919394E+08	1,733063E+07	0,000000E+00	0,000000E+00	1,732745E+07	1,919261E+08	5,462481E+08	9,853135E+08	1,322295E+09	1,322303E+09	9,853357E+08	5,462689E+08
-1235	1,919316E+08	1,732605E+07	0,000000E+00	0,000000E+00	1,732906E+07	1,919434E+08	5,462816E+08	9,853656E+08	1,322341E+09	1,322312E+09	9,852930E+08	5,462220E+08
-1234	1,919136E+08	1,732224E+07	0,000000E+00	0,000000E+00	1,732009E+07	1,919080E+08	5,462264E+08	9,853024E+08	1,322316E+09	1,322342E+09	9,853605E+08	5,462789E+08
-1233	1,919466E+08	1,733127E+07	0,000000E+00	0,000000E+00	1,732945E+07	1,919343E+08	5,462526E+08	9,853053E+08	1,322278E+09	1,322292E+09	9,853242E+08	5,462533E+08
-1232	1,919234E+08	1,732536E+07	0,000000E+00	0,000000E+00	1,732824E+07	1,919377E+08	5,462597E+08	9,853136E+08	1,322271E+09	1,322249E+09	9,852695E+08	5,462317E+08
-1231	1,919297E+08	1,732990E+07	0,000000E+00	0,000000E+00	1,732785E+07	1,919181E+08	5,462145E+08	9,852434E+08	1,322214E+09	1,322236E+09	9,852978E+08	5,462709E+08
-1230	1,919582E+08	1,733770E+07	0,000000E+00	0,000000E+00	1,733905E+07	1,919575E+08	5,462633E+08	9,852725E+08	1,322183E+09	1,322158E+09	9,852065E+08	5,462031E+08
-1229	1,919248E+08	1,733280E+07	0,000000E+00	0,000000E+00	1,733543E+07	1,919401E+08	5,462276E+08	9,852246E+08	1,322146E+09	1,322127E+09	9,851934E+08	5,462173E+08
-1228	1,919518E+08	1,734373E+07	0,000000E+00	0,000000E+00	1,734075E+07	1,919362E+08	5,461969E+08	9,851612E+08	1,322084E+09	1,322102E+09	9,852064E+08	5,462400E+08
-1227	1,919618E+08	1,734592E+07	0,000000E+00	0,000000E+00	1,734994E+07	1,919741E+08	5,462399E+08	9,851855E+08	1,322066E+09	1,322047E+09	9,851246E+08	5,461779E+08
-1226	1,919387E+08	1,734428E+07	0,000000E+00	0,000000E+00	1,734479E+07	1,919454E+08	5,461904E+08	9,851191E+08	1,322016E+09	1,322035E+09	9,851619E+08	5,462294E+08
-1225	1,919762E+08	1,735386E+07	0,000000E+00	0,000000E+00	1,735126E+07	1,919605E+08	5,462019E+08	9,851135E+08	1,321984E+09	1,321996E+09	9,851384E+08	5,462168E+08
-1224	1,919605E+08	1,734958E+07	0,000000E+00	0,000000E+00	1,735229E+07	1,919715E+08	5,462241E+08	9,851518E+08	1,322013E+09	1,321981E+09	9,850873E+08	5,461803E+08
-1223	1,919527E+08	1,734900E+07	0,000000E+00	0,000000E+00	1,734524E+07	1,919379E+08	5,461722E+08	9,850977E+08	1,322004E+09	1,322031E+09	9,851639E+08	5,462350E+08
-1222	1,919795E+08	1,735373E+07	0,000000E+00	0,000000E+00	1,735184E+07	1,919698E+08	5,462259E+08	9,851559E+08	1,322026E+09	1,322023E+09	9,851332E+08	5,461905E+08
-1221	1,919394E+08	1,734343E+07	0,000000E+00	0,000000E+00	1,734576E+07	1,919580E+08	5,462231E+08	9,851790E+08	1,322074E+09	1,322060E+09	9,851520E+08	5,462024E+08
-1220	1,919486E+08	1,734356E+07	0,000000E+00	0,000000E+00	1,734025E+07	1,919370E+08	5,461989E+08	9,851656E+08	1,322096E+09	1,322124E+09	9,852272E+08	5,462486E+08
-1219	1,919607E+08	1,734312E+07	0,000000E+00	0,000000E+00	1,734553E+07	1,919700E+08	5,462621E+08	9,852514E+08	1,322158E+09	1,322141E+09	9,851929E+08	5,461962E+08
-1218	1,919245E+08	1,733315E+07	0,000000E+00	0,000000E+00	1,733281E+07	1,919326E+08	5,462260E+08	9,852412E+08	1,322190E+09	1,322190E+09	9,852514E+08	5,462433E+08
-1217	1,919516E+08	1,733856E+07	0,000000E+00	0,000000E+00	1,733400E+07	1,919294E+08	5,462182E+08	9,852327E+08	1,322186E+09	1,322203E+09	9,852733E+08	5,462543E+08
-1216	1,919454E+08	1,733550E+07	0,000000E+00	0,000000E+00	1,733686E+07	1,919497E+08	5,462516E+08	9,852773E+08	1,322217E+09	1,322194E+09	9,852238E+08	5,462077E+08
-1215	1,919254E+08	1,733120E+07	0,000000E+00	0,000000E+00	1,732946E+07	1,919201E+08	5,462031E+08	9,852134E+08	1,322181E+09	1,322212E+09	9,852819E+08	5,462617E+08
-1214	1,919602E+08	1,734076E+07	0,000000E+00	0,000000E+00	1,733916E+07	1,919496E+08	5,462426E+08	9,852340E+08	1,322147E+09	1,322153E+09	9,852326E+08	5,462267E+08
-1213	1,919329E+08	1,733422E+07	0,000000E+00	0,000000E+00	1,733838E+07	1,919535E+08	5,462483E+08	9,852451E+08	1,322150E+09	1,322116E+09	9,851768E+08	5,462027E+08
-1212	1,919383E+08	1,733866E+07	0,000000E+00	0,000000E+00	1,733699E+07	1,919284E+08	5,461930E+08	9,851669E+08	1,322097E+09	1,322111E+09	9,852092E+08	5,462436E+08
-1211	1,919695E+08	1,734750E+07	0,000000E+00	0,000000E+00	1,734882E+07	1,919687E+08	5,462369E+08	9,851877E+08	1,322071E+09	1,322054E+09	9,851341E+08	5,461811E+08
-1210	1,919367E+08	1,734305E+07	0,000000E+00	0,000000E+00	1,734546E+07	1,919530E+08	5,462055E+08	9,851415E+08	1,322026E+09	1,322015E+09	9,851248E+08	5,462017E+08
-1209	1,919652E+08	1,735348E+07	0,000000E+00	0,000000E+00	1,735060E+07	1,919489E+08	5,461737E+08	9,850700E+08	1,321946E+09	1,321973E+09	9,851298E+08	5,462243E+08
-1208	1,919765E+08	1,735618E+07	0,000000E+00	0,000000E+00	1,735959E+07	1,919865E+08	5,462209E+08	9,851059E+08	1,321935E+09	1,321912E+09	9,850442E+08	5,461629E+08
-1207	1,919520E+08	1,735358E+07	0,000000E+00	0,000000E+00	1,735417E+07	1,919572E+08	5,461709E+08	9,850432E+08	1,321896E+09	1,321909E+09	9,850794E+08	5,462099E+08
-1206	1,919898E+08	1,736315E+07	0,000000E+00	0,000000E+00	1,735977E+07	1,919711E+08	5,461868E+08	9,850463E+08	1,321873E+09	1,321878E+09	9,850544E+08	5,461891E+08
-1205	1,919683E+08	1,735795E+07	0,000000E+00	0,000000E+00	1,736132E+07	1,919833E+08	5,462066E+08	9,850829E+08	1,321908E+09	1,321875E+09	9,850137E+08	5,461549E+08
-1204	1,919583E+08	1,735619E+07	0,000000E+00	0,000000E+00	1,735335E+07	1,919483E+08	5,461521E+08	9,850261E+08	1,321899E+09	1,321929E+09	9,850965E+08	5,462146E+08
-1203	1,919866E+08	1,736094E+07	0,000000E+00	0,000000E+00	1,736011E+07	1,919824E+08	5,462111E+08	9,850912E+08	1,321933E+09	1,321937E+09	9,850787E+08	5,461774E+08
-1202	1,919487E+08	1,735062E+07	0,000000E+00	0,000000E+00	1,735291E+07	1,919686E+08	5,462139E+08	9,851278E+08	1,321986E+09	1,321970E+09	9,850970E+08	5,461927E+08
-1201	1,919600E+08	1,735061E+07	0,000000E+00	0,000000E+00	1,734633E+07	1,919417E+08	5,461785E+08	9,851018E+08	1,321998E+09	1,322023E+09	9,851631E+08	5,462351E+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	1,919739E+08	1,735173E+07	0,000000E+00	0,000000E+00	1,735175E+07	1,919730E+08	5,462366E+08	9,851824E+08	1,322060E+09	1,322040E+09	9,851303E+08	5,461835E+08
-1199	1,919366E+08	1,734164E+07	0,000000E+00	0,000000E+00	1,734039E+07	1,919390E+08	5,461987E+08	9,851622E+08	1,322082E+09	1,322089E+09	9,851859E+08	5,462266E+08
-1198	1,919638E+08	1,734757E+07	0,000000E+00	0,000000E+00	1,734264E+07	1,919410E+08	5,462010E+08	9,851574E+08	1,322069E+09	1,322089E+09	9,851991E+08	5,462316E+08
-1197	1,919531E+08	1,734366E+07	0,000000E+00	0,000000E+00	1,734679E+07	1,919664E+08	5,462407E+08	9,852073E+08	1,322099E+09	1,322073E+09	9,851455E+08	5,461847E+08
-1196	1,919323E+08	1,733864E+07	0,000000E+00	0,000000E+00	1,733871E+07	1,919341E+08	5,461903E+08	9,851463E+08	1,322065E+09	1,322086E+09	9,851963E+08	5,462375E+08
-1195	1,919696E+08	1,734909E+07	0,000000E+00	0,000000E+00	1,734845E+07	1,919627E+08	5,462263E+08	9,851668E+08	1,322045E+09	1,322044E+09	9,851548E+08	5,462047E+08
-1194	1,919441E+08	1,734340E+07	0,000000E+00	0,000000E+00	1,734720E+07	1,919642E+08	5,462298E+08	9,851749E+08	1,322043E+09	1,322006E+09	9,851020E+08	5,461826E+08
-1193	1,919507E+08	1,734830E+07	0,000000E+00	0,000000E+00	1,734599E+07	1,919363E+08	5,461629E+08	9,850749E+08	1,321967E+09	1,321989E+09	9,851315E+08	5,462239E+08
-1192	1,919834E+08	1,735835E+07	0,000000E+00	0,000000E+00	1,735871E+07	1,919798E+08	5,462087E+08	9,850921E+08	1,321932E+09	1,321922E+09	9,850579E+08	5,461667E+08
-1191	1,919505E+08	1,735341E+07	0,000000E+00	0,000000E+00	1,735633E+07	1,919677E+08	5,461826E+08	9,850490E+08	1,321885E+09	1,321880E+09	9,850425E+08	5,461852E+08
-1190	1,919806E+08	1,736375E+07	0,000000E+00	0,000000E+00	1,736078E+07	1,919639E+08	5,461608E+08	9,849939E+08	1,321813E+09	1,321832E+09	9,850379E+08	5,462000E+08
-1189	1,919878E+08	1,736557E+07	0,000000E+00	0,000000E+00	1,736953E+07	1,920001E+08	5,462050E+08	9,850346E+08	1,321817E+09	1,321782E+09	9,849541E+08	5,461365E+08
-1188	1,919613E+08	1,736208E+07	0,000000E+00	0,000000E+00	1,736271E+07	1,919663E+08	5,461483E+08	9,849687E+08	1,321784E+09	1,321791E+09	9,849958E+08	5,461845E+08
-1187	1,919995E+08	1,737179E+07	0,000000E+00	0,000000E+00	1,736845E+07	1,919814E+08	5,461630E+08	9,849715E+08	1,321774E+09	1,321786E+09	9,849902E+08	5,461699E+08
-1186	1,919778E+08	1,736632E+07	0,000000E+00	0,000000E+00	1,736954E+07	1,919951E+08	5,461908E+08	9,850159E+08	1,321809E+09	1,321783E+09	9,849568E+08	5,461416E+08
-1185	1,919681E+08	1,736369E+07	0,000000E+00	0,000000E+00	1,736078E+07	1,919580E+08	5,461354E+08	9,849581E+08	1,321794E+09	1,321828E+09	9,850354E+08	5,462016E+08
-1184	1,919978E+08	1,736900E+07	0,000000E+00	0,000000E+00	1,736723E+07	1,919910E+08	5,461960E+08	9,850322E+08	1,321836E+09	1,321833E+09	9,850169E+08	5,461668E+08
-1183	1,919600E+08	1,735828E+07	0,000000E+00	0,000000E+00	1,735993E+07	1,919759E+08	5,461956E+08	9,850678E+08	1,321897E+09	1,321877E+09	9,850327E+08	5,461777E+08
-1182	1,919717E+08	1,735861E+07	0,000000E+00	0,000000E+00	1,735327E+07	1,919490E+08	5,461625E+08	9,850412E+08	1,321904E+09	1,321926E+09	9,850944E+08	5,462132E+08
-1181	1,919812E+08	1,735932E+07	0,000000E+00	0,000000E+00	1,735989E+07	1,919822E+08	5,462155E+08	9,851118E+08	1,321958E+09	1,321940E+09	9,850631E+08	5,461620E+08
-1180	1,919427E+08	1,734864E+07	0,000000E+00	0,000000E+00	1,734882E+07	1,919503E+08	5,461777E+08	9,850839E+08	1,321966E+09	1,321978E+09	9,851147E+08	5,462071E+08
-1179	1,919717E+08	1,735513E+07	0,000000E+00	0,000000E+00	1,735190E+07	1,919555E+08	5,461842E+08	9,850835E+08	1,321958E+09	1,321982E+09	9,851307E+08	5,462153E+08
-1178	1,919634E+08	1,735161E+07	0,000000E+00	0,000000E+00	1,735536E+07	1,919798E+08	5,462297E+08	9,851445E+08	1,321990E+09	1,321958E+09	9,850708E+08	5,461681E+08
-1177	1,919445E+08	1,734712E+07	0,000000E+00	0,000000E+00	1,734666E+07	1,919422E+08	5,461683E+08	9,850715E+08	1,321949E+09	1,321962E+09	9,851125E+08	5,462158E+08
-1176	1,919828E+08	1,735915E+07	0,000000E+00	0,000000E+00	1,735680E+07	1,919701E+08	5,462004E+08	9,850870E+08	1,321927E+09	1,321921E+09	9,850742E+08	5,461856E+08
-1175	1,919576E+08	1,735378E+07	0,000000E+00	0,000000E+00	1,735697E+07	1,919750E+08	5,462031E+08	9,850874E+08	1,321920E+09	1,321887E+09	9,850233E+08	5,461627E+08
-1174	1,919646E+08	1,735896E+07	0,000000E+00	0,000000E+00	1,735655E+07	1,919519E+08	5,461463E+08	9,849907E+08	1,321833E+09	1,321857E+09	9,850472E+08	5,462004E+08
-1173	1,919935E+08	1,736799E+07	0,000000E+00	0,000000E+00	1,736994E+07	1,919974E+08	5,461947E+08	9,850135E+08	1,321802E+09	1,321789E+09	9,849722E+08	5,461448E+08
-1172	1,919612E+08	1,736241E+07	0,000000E+00	0,000000E+00	1,736663E+07	1,919820E+08	5,461647E+08	9,849715E+08	1,321760E+09	1,321748E+09	9,849539E+08	5,461626E+08
-1171	1,919926E+08	1,737299E+07	0,000000E+00	0,000000E+00	1,737030E+07	1,919755E+08	5,461373E+08	9,849169E+08	1,321705E+09	1,321722E+09	9,849601E+08	5,461795E+08
-1170	1,920005E+08	1,737507E+07	0,000000E+00	0,000000E+00	1,737797E+07	1,920088E+08	5,461819E+08	9,849589E+08	1,321708E+09	1,321674E+09	9,848823E+08	5,461181E+08
-1169	1,919738E+08	1,737129E+07	0,000000E+00	0,000000E+00	1,737073E+07	1,919723E+08	5,461169E+08	9,848785E+08	1,321659E+09	1,321675E+09	9,849225E+08	5,461653E+08
-1168	1,920111E+08	1,738128E+07	0,000000E+00	0,000000E+00	1,737684E+07	1,919913E+08	5,461393E+08	9,848880E+08	1,321650E+09	1,321668E+09	9,849221E+08	5,461571E+08
-1167	1,919896E+08	1,737512E+07	0,000000E+00	0,000000E+00	1,737840E+07	1,920080E+08	5,461753E+08	9,849438E+08	1,321695E+09	1,321672E+09	9,848886E+08	5,461275E+08
-1166	1,919802E+08	1,737193E+07	0,000000E+00	0,000000E+00	1,736881E+07	1,919707E+08	5,461281E+08	9,849012E+08	1,321691E+09	1,321716E+09	9,849600E+08	5,461802E+08
-1165	1,920058E+08	1,737644E+07	0,000000E+00	0,000000E+00	1,737516E+07	1,920015E+08	5,461828E+08	9,849768E+08	1,321747E+09	1,321735E+09	9,849456E+08	5,461453E+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	1,919677E+08	1,736520E+07	0,000000E+00	0,000000E+00	1,736706E+07	1,919828E+08	5,461737E+08	9,850025E+08	1,321806E+09	1,321784E+09	9,849654E+08	5,461566E+08
-1163	1,919794E+08	1,736581E+07	0,000000E+00	0,000000E+00	1,736116E+07	1,919583E+08	5,461392E+08	9,849723E+08	1,321816E+09	1,321844E+09	9,850384E+08	5,461974E+08
-1162	1,919895E+08	1,736660E+07	0,000000E+00	0,000000E+00	1,736767E+07	1,919936E+08	5,462008E+08	9,850467E+08	1,321858E+09	1,321846E+09	9,850057E+08	5,461493E+08
-1161	1,919520E+08	1,735567E+07	0,000000E+00	0,000000E+00	1,735643E+07	1,919607E+08	5,461617E+08	9,850145E+08	1,321853E+09	1,321864E+09	9,850439E+08	5,461909E+08
-1160	1,919828E+08	1,736336E+07	0,000000E+00	0,000000E+00	1,735977E+07	1,919662E+08	5,461699E+08	9,850189E+08	1,321848E+09	1,321864E+09	9,850558E+08	5,462001E+08
-1159	1,919762E+08	1,736044E+07	0,000000E+00	0,000000E+00	1,736366E+07	1,919898E+08	5,462110E+08	9,850749E+08	1,321885E+09	1,321847E+09	9,849929E+08	5,461478E+08
-1158	1,919578E+08	1,735684E+07	0,000000E+00	0,000000E+00	1,735547E+07	1,919529E+08	5,461500E+08	9,849972E+08	1,321834E+09	1,321845E+09	9,850288E+08	5,461890E+08
-1157	1,919921E+08	1,736864E+07	0,000000E+00	0,000000E+00	1,736694E+07	1,919826E+08	5,461767E+08	9,850029E+08	1,321806E+09	1,321802E+09	9,849928E+08	5,461613E+08
-1156	1,919672E+08	1,736300E+07	0,000000E+00	0,000000E+00	1,736746E+07	1,919889E+08	5,461791E+08	9,849965E+08	1,321786E+09	1,321759E+09	9,849411E+08	5,461419E+08
-1155	1,919762E+08	1,736853E+07	0,000000E+00	0,000000E+00	1,736744E+07	1,919677E+08	5,461256E+08	9,849070E+08	1,321708E+09	1,321735E+09	9,849697E+08	5,461841E+08
-1154	1,920073E+08	1,737757E+07	0,000000E+00	0,000000E+00	1,737939E+07	1,920097E+08	5,461761E+08	9,849360E+08	1,321677E+09	1,321660E+09	9,848906E+08	5,461276E+08
-1153	1,919762E+08	1,737228E+07	0,000000E+00	0,000000E+00	1,737530E+07	1,919893E+08	5,461357E+08	9,848819E+08	1,321628E+09	1,321616E+09	9,848665E+08	5,461411E+08
-1152	1,920077E+08	1,738367E+07	0,000000E+00	0,000000E+00	1,737900E+07	1,919835E+08	5,461080E+08	9,848261E+08	1,321574E+09	1,321594E+09	9,848784E+08	5,461596E+08
-1151	1,920140E+08	1,738541E+07	0,000000E+00	0,000000E+00	1,738748E+07	1,920200E+08	5,461561E+08	9,848703E+08	1,321582E+09	1,321556E+09	9,848060E+08	5,460982E+08
-1150	1,919861E+08	1,738097E+07	0,000000E+00	0,000000E+00	1,738042E+07	1,919885E+08	5,461063E+08	9,848057E+08	1,321539E+09	1,321554E+09	9,848432E+08	5,461413E+08
-1149	1,920178E+08	1,738916E+07	0,000000E+00	0,000000E+00	1,738644E+07	1,920076E+08	5,461323E+08	9,848303E+08	1,321547E+09	1,321556E+09	9,848458E+08	5,461351E+08
-1148	1,919970E+08	1,738214E+07	0,000000E+00	0,000000E+00	1,738670E+07	1,920201E+08	5,461643E+08	9,848894E+08	1,321604E+09	1,321572E+09	9,848180E+08	5,461072E+08
-1147	1,919884E+08	1,737887E+07	0,000000E+00	0,000000E+00	1,737637E+07	1,919799E+08	5,461110E+08	9,848471E+08	1,321618E+09	1,321639E+09	9,849023E+08	5,461636E+08
-1146	1,920145E+08	1,738346E+07	0,000000E+00	0,000000E+00	1,738164E+07	1,920073E+08	5,461628E+08	9,849162E+08	1,321663E+09	1,321656E+09	9,848931E+08	5,461321E+08
-1145	1,919775E+08	1,737234E+07	0,000000E+00	0,000000E+00	1,737358E+07	1,919871E+08	5,461445E+08	9,849217E+08	1,321698E+09	1,321688E+09	9,849069E+08	5,461427E+08
-1144	1,919899E+08	1,737372E+07	0,000000E+00	0,000000E+00	1,736859E+07	1,919676E+08	5,461176E+08	9,848926E+08	1,321696E+09	1,321734E+09	9,849762E+08	5,461866E+08
-1143	1,920015E+08	1,737475E+07	0,000000E+00	0,000000E+00	1,737572E+07	1,920049E+08	5,461848E+08	9,849751E+08	1,321743E+09	1,321732E+09	9,849350E+08	5,461350E+08
-1142	1,919655E+08	1,736427E+07	0,000000E+00	0,000000E+00	1,736455E+07	1,919735E+08	5,461525E+08	9,849523E+08	1,321741E+09	1,321741E+09	9,849582E+08	5,461654E+08
-1141	1,919917E+08	1,737180E+07	0,000000E+00	0,000000E+00	1,736851E+07	1,919775E+08	5,461544E+08	9,849549E+08	1,321746E+09	1,321750E+09	9,849702E+08	5,461726E+08
-1140	1,919860E+08	1,736915E+07	0,000000E+00	0,000000E+00	1,737254E+07	1,919998E+08	5,461878E+08	9,849974E+08	1,321774E+09	1,321737E+09	9,849140E+08	5,461229E+08
-1139	1,919677E+08	1,736614E+07	0,000000E+00	0,000000E+00	1,736552E+07	1,919656E+08	5,461251E+08	9,849161E+08	1,321726E+09	1,321743E+09	9,849602E+08	5,461703E+08
-1138	1,920031E+08	1,737786E+07	0,000000E+00	0,000000E+00	1,737667E+07	1,919966E+08	5,461587E+08	9,849234E+08	1,321685E+09	1,321687E+09	9,849234E+08	5,461473E+08
-1137	1,919808E+08	1,737231E+07	0,000000E+00	0,000000E+00	1,737700E+07	1,920000E+08	5,461551E+08	9,849079E+08	1,321650E+09	1,321626E+09	9,848589E+08	5,461245E+08
-1136	1,919912E+08	1,737880E+07	0,000000E+00	0,000000E+00	1,737695E+07	1,919793E+08	5,461033E+08	9,848213E+08	1,321571E+09	1,321597E+09	9,848849E+08	5,461671E+08
-1135	1,920231E+08	1,738813E+07	0,000000E+00	0,000000E+00	1,738880E+07	1,920198E+08	5,461506E+08	9,848486E+08	1,321548E+09	1,321531E+09	9,848043E+08	5,461057E+08
-1134	1,919912E+08	1,738305E+07	0,000000E+00	0,000000E+00	1,738509E+07	1,920017E+08	5,461143E+08	9,847945E+08	1,321494E+09	1,321481E+09	9,847742E+08	5,461114E+08
-1133	1,920166E+08	1,739333E+07	0,000000E+00	0,000000E+00	1,738948E+07	1,919983E+08	5,460877E+08	9,847423E+08	1,321447E+09	1,321467E+09	9,847909E+08	5,461319E+08
-1132	1,920226E+08	1,739411E+07	0,000000E+00	0,000000E+00	1,739760E+07	1,920355E+08	5,461393E+08	9,847909E+08	1,321459E+09	1,321435E+09	9,847271E+08	5,460764E+08
-1131	1,919952E+08	1,738915E+07	0,000000E+00	0,000000E+00	1,739000E+07	1,920033E+08	5,460943E+08	9,847459E+08	1,321444E+09	1,321453E+09	9,847756E+08	5,461244E+08
-1130	1,920274E+08	1,739658E+07	0,000000E+00	0,000000E+00	1,739391E+07	1,920175E+08	5,461209E+08	9,847784E+08	1,321461E+09	1,321463E+09	9,847833E+08	5,461208E+08
-1129	1,920084E+08	1,738971E+07	0,000000E+00	0,000000E+00	1,739297E+07	1,920232E+08	5,461387E+08	9,848213E+08	1,321510E+09	1,321480E+09	9,847562E+08	5,460916E+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	1,920002E+08	1,738705E+07	0,000000E+00	0,000000E+00	1,738288E+07	1,919849E+08	5,460854E+08	9,847727E+08	1,321514E+09	1,321546E+09	9,848471E+08	5,461516E+08
-1127	1,920263E+08	1,739175E+07	0,000000E+00	0,000000E+00	1,738890E+07	1,920146E+08	5,461384E+08	9,848381E+08	1,321556E+09	1,321562E+09	9,848367E+08	5,461193E+08
-1126	1,919890E+08	1,738045E+07	0,000000E+00	0,000000E+00	1,738167E+07	1,920007E+08	5,461337E+08	9,848528E+08	1,321584E+09	1,321575E+09	9,848357E+08	5,461224E+08
-1125	1,919972E+08	1,738098E+07	0,000000E+00	0,000000E+00	1,737729E+07	1,919823E+08	5,461099E+08	9,848358E+08	1,321594E+09	1,321621E+09	9,848975E+08	5,461632E+08
-1124	1,920098E+08	1,738192E+07	0,000000E+00	0,000000E+00	1,738384E+07	1,920167E+08	5,461725E+08	9,849165E+08	1,321647E+09	1,321625E+09	9,848586E+08	5,461124E+08
-1123	1,919747E+08	1,737215E+07	0,000000E+00	0,000000E+00	1,737289E+07	1,919838E+08	5,461357E+08	9,848951E+08	1,321659E+09	1,321651E+09	9,848908E+08	5,461441E+08
-1122	1,920004E+08	1,737979E+07	0,000000E+00	0,000000E+00	1,737644E+07	1,919858E+08	5,461332E+08	9,848854E+08	1,321646E+09	1,321654E+09	9,849061E+08	5,461543E+08
-1121	1,919965E+08	1,737781E+07	0,000000E+00	0,000000E+00	1,738094E+07	1,920073E+08	5,461572E+08	9,849046E+08	1,321647E+09	1,321622E+09	9,848452E+08	5,461067E+08
-1120	1,919805E+08	1,737584E+07	0,000000E+00	0,000000E+00	1,737525E+07	1,919788E+08	5,461022E+08	9,848224E+08	1,321582E+09	1,321611E+09	9,848866E+08	5,461575E+08
-1119	1,920185E+08	1,738794E+07	0,000000E+00	0,000000E+00	1,738645E+07	1,920090E+08	5,461367E+08	9,848344E+08	1,321545E+09	1,321551E+09	9,848400E+08	5,461309E+08
-1118	1,919979E+08	1,738303E+07	0,000000E+00	0,000000E+00	1,738706E+07	1,920143E+08	5,461374E+08	9,848234E+08	1,321510E+09	1,321477E+09	9,847599E+08	5,460973E+08
-1117	1,920039E+08	1,738923E+07	0,000000E+00	0,000000E+00	1,738726E+07	1,919921E+08	5,460816E+08	9,847384E+08	1,321442E+09	1,321457E+09	9,847838E+08	5,461357E+08
-1116	1,920346E+08	1,739812E+07	0,000000E+00	0,000000E+00	1,739892E+07	1,920319E+08	5,461255E+08	9,847603E+08	1,321418E+09	1,321402E+09	9,847145E+08	5,460775E+08
-1115	1,920014E+08	1,739290E+07	0,000000E+00	0,000000E+00	1,739583E+07	1,920170E+08	5,460952E+08	9,847187E+08	1,321382E+09	1,321368E+09	9,846983E+08	5,460883E+08
-1114	1,920249E+08	1,740174E+07	0,000000E+00	0,000000E+00	1,739895E+07	1,920136E+08	5,460774E+08	9,846777E+08	1,321340E+09	1,321359E+09	9,847220E+08	5,461141E+08
-1113	1,920328E+08	1,740226E+07	0,000000E+00	0,000000E+00	1,740592E+07	1,920455E+08	5,461217E+08	9,847222E+08	1,321351E+09	1,321327E+09	9,846597E+08	5,460616E+08
-1112	1,920079E+08	1,739779E+07	0,000000E+00	0,000000E+00	1,739769E+07	1,920123E+08	5,460760E+08	9,846793E+08	1,321340E+09	1,321353E+09	9,847141E+08	5,461121E+08
-1111	1,920410E+08	1,740531E+07	0,000000E+00	0,000000E+00	1,740082E+07	1,920222E+08	5,460958E+08	9,847070E+08	1,321364E+09	1,321371E+09	9,847240E+08	5,461076E+08
-1110	1,920223E+08	1,739870E+07	0,000000E+00	0,000000E+00	1,740046E+07	1,920305E+08	5,461146E+08	9,847424E+08	1,321398E+09	1,321374E+09	9,846886E+08	5,460714E+08
-1109	1,920084E+08	1,739498E+07	0,000000E+00	0,000000E+00	1,739133E+07	1,919962E+08	5,460653E+08	9,846965E+08	1,321400E+09	1,321436E+09	9,847749E+08	5,461305E+08
-1108	1,920341E+08	1,739897E+07	0,000000E+00	0,000000E+00	1,739740E+07	1,920275E+08	5,461233E+08	9,847651E+08	1,321440E+09	1,321449E+09	9,847668E+08	5,461008E+08
-1107	1,919974E+08	1,738760E+07	0,000000E+00	0,000000E+00	1,739017E+07	1,920141E+08	5,461244E+08	9,848000E+08	1,321492E+09	1,321473E+09	9,847670E+08	5,461034E+08
-1106	1,920051E+08	1,738782E+07	0,000000E+00	0,000000E+00	1,738457E+07	1,919928E+08	5,461008E+08	9,847873E+08	1,321509E+09	1,321526E+09	9,848295E+08	5,461434E+08
-1105	1,920195E+08	1,738957E+07	0,000000E+00	0,000000E+00	1,739063E+07	1,920215E+08	5,461481E+08	9,848465E+08	1,321548E+09	1,321526E+09	9,847908E+08	5,460933E+08
-1104	1,919862E+08	1,738097E+07	0,000000E+00	0,000000E+00	1,738077E+07	1,919919E+08	5,461113E+08	9,848161E+08	1,321546E+09	1,321548E+09	9,848287E+08	5,461290E+08
-1103	1,920127E+08	1,738911E+07	0,000000E+00	0,000000E+00	1,738515E+07	1,919957E+08	5,461094E+08	9,848017E+08	1,321526E+09	1,321545E+09	9,848415E+08	5,461407E+08
-1102	1,920103E+08	1,738741E+07	0,000000E+00	0,000000E+00	1,739064E+07	1,920223E+08	5,461414E+08	9,848219E+08	1,321511E+09	1,321488E+09	9,847626E+08	5,460858E+08
-1101	1,919917E+08	1,738524E+07	0,000000E+00	0,000000E+00	1,738581E+07	1,919949E+08	5,460885E+08	9,847474E+08	1,321453E+09	1,321472E+09	9,847923E+08	5,461325E+08
-1100	1,920310E+08	1,739735E+07	0,000000E+00	0,000000E+00	1,739635E+07	1,920217E+08	5,461160E+08	9,847527E+08	1,321417E+09	1,321418E+09	9,847484E+08	5,461050E+08
-1099	1,920102E+08	1,739306E+07	0,000000E+00	0,000000E+00	1,739729E+07	1,920263E+08	5,461153E+08	9,847481E+08	1,321397E+09	1,321358E+09	9,846747E+08	5,460708E+08
-1098	1,920142E+08	1,739876E+07	0,000000E+00	0,000000E+00	1,739687E+07	1,920036E+08	5,460594E+08	9,846586E+08	1,321324E+09	1,321340E+09	9,847041E+08	5,461111E+08
-1097	1,920448E+08	1,740758E+07	0,000000E+00	0,000000E+00	1,740823E+07	1,920418E+08	5,460974E+08	9,846671E+08	1,321285E+09	1,321278E+09	9,846376E+08	5,460586E+08
-1096	1,920139E+08	1,740273E+07	0,000000E+00	0,000000E+00	1,740560E+07	1,920310E+08	5,460773E+08	9,846353E+08	1,321248E+09	1,321244E+09	9,846279E+08	5,460748E+08
-1095	1,920389E+08	1,741125E+07	0,000000E+00	0,000000E+00	1,740769E+07	1,920242E+08	5,460593E+08	9,846045E+08	1,321224E+09	1,321244E+09	9,846513E+08	5,461002E+08
-1094	1,920480E+08	1,741201E+07	0,000000E+00	0,000000E+00	1,741446E+07	1,920561E+08	5,461034E+08	9,846491E+08	1,321235E+09	1,321208E+09	9,845816E+08	5,460413E+08
-1093	1,920197E+08	1,740698E+07	0,000000E+00	0,000000E+00	1,740627E+07	1,920218E+08	5,460544E+08	9,846067E+08	1,321234E+09	1,321243E+09	9,846360E+08	5,460889E+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	1,920510E+08	1,741356E+07	0,000000E+00	0,000000E+00	1,740900E+07	1,920305E+08	5,460699E+08	9,846267E+08	1,321253E+09	1,321269E+09	9,846569E+08	5,460877E+08
-1091	1,920310E+08	1,740663E+07	0,000000E+00	0,000000E+00	1,740926E+07	1,920428E+08	5,460985E+08	9,846789E+08	1,321302E+09	1,321277E+09	9,846270E+08	5,460539E+08
-1090	1,920146E+08	1,740134E+07	0,000000E+00	0,000000E+00	1,739912E+07	1,920095E+08	5,460588E+08	9,846446E+08	1,321307E+09	1,321337E+09	9,847109E+08	5,461128E+08
-1089	1,920409E+08	1,740532E+07	0,000000E+00	0,000000E+00	1,740422E+07	1,920359E+08	5,461094E+08	9,847083E+08	1,321345E+09	1,321348E+09	9,847018E+08	5,460851E+08
-1088	1,920076E+08	1,739497E+07	0,000000E+00	0,000000E+00	1,739711E+07	1,920234E+08	5,461115E+08	9,847432E+08	1,321399E+09	1,321379E+09	9,847069E+08	5,460882E+08
-1087	1,920161E+08	1,739583E+07	0,000000E+00	0,000000E+00	1,739133E+07	1,919981E+08	5,460791E+08	9,847217E+08	1,321417E+09	1,321437E+09	9,847698E+08	5,461277E+08
-1086	1,920316E+08	1,739854E+07	0,000000E+00	0,000000E+00	1,739866E+07	1,920303E+08	5,461239E+08	9,847655E+08	1,321431E+09	1,321416E+09	9,847212E+08	5,460739E+08
-1085	1,919963E+08	1,738997E+07	0,000000E+00	0,000000E+00	1,739035E+07	1,920047E+08	5,460896E+08	9,847322E+08	1,321421E+09	1,321426E+09	9,847487E+08	5,461082E+08
-1084	1,920237E+08	1,739792E+07	0,000000E+00	0,000000E+00	1,739491E+07	1,920087E+08	5,460887E+08	9,847160E+08	1,321392E+09	1,321414E+09	9,847606E+08	5,461221E+08
-1083	1,920230E+08	1,739678E+07	0,000000E+00	0,000000E+00	1,740068E+07	1,920356E+08	5,461251E+08	9,847531E+08	1,321394E+09	1,321359E+09	9,846776E+08	5,460644E+08
-1082	1,920033E+08	1,739440E+07	0,000000E+00	0,000000E+00	1,739516E+07	1,920070E+08	5,460719E+08	9,846777E+08	1,321338E+09	1,321346E+09	9,847043E+08	5,461074E+08
-1081	1,920429E+08	1,740708E+07	0,000000E+00	0,000000E+00	1,740515E+07	1,920290E+08	5,460858E+08	9,846622E+08	1,321288E+09	1,321291E+09	9,846639E+08	5,460817E+08
-1080	1,920237E+08	1,740371E+07	0,000000E+00	0,000000E+00	1,740726E+07	1,920386E+08	5,460896E+08	9,846544E+08	1,321260E+09	1,321233E+09	9,845984E+08	5,460507E+08
-1079	1,920274E+08	1,740934E+07	0,000000E+00	0,000000E+00	1,740690E+07	1,920167E+08	5,460374E+08	9,845713E+08	1,321194E+09	1,321218E+09	9,846295E+08	5,460935E+08
-1078	1,920583E+08	1,741787E+07	0,000000E+00	0,000000E+00	1,741863E+07	1,920580E+08	5,460819E+08	9,845856E+08	1,321151E+09	1,321142E+09	9,845535E+08	5,460384E+08
-1077	1,920261E+08	1,741254E+07	0,000000E+00	0,000000E+00	1,741593E+07	1,920460E+08	5,460635E+08	9,845666E+08	1,321134E+09	1,321118E+09	9,845404E+08	5,460525E+08
-1076	1,920510E+08	1,742018E+07	0,000000E+00	0,000000E+00	1,741672E+07	1,920347E+08	5,460389E+08	9,845317E+08	1,321114E+09	1,321132E+09	9,845755E+08	5,460797E+08
-1075	1,920593E+08	1,742096E+07	0,000000E+00	0,000000E+00	1,742321E+07	1,920645E+08	5,460816E+08	9,845831E+08	1,321139E+09	1,321108E+09	9,845136E+08	5,460211E+08
-1074	1,920277E+08	1,741469E+07	0,000000E+00	0,000000E+00	1,741439E+07	1,920316E+08	5,460346E+08	9,845369E+08	1,321132E+09	1,321144E+09	9,845715E+08	5,460700E+08
-1073	1,920582E+08	1,742072E+07	0,000000E+00	0,000000E+00	1,741651E+07	1,920387E+08	5,460455E+08	9,845454E+08	1,321136E+09	1,321161E+09	9,845930E+08	5,460732E+08
-1072	1,920405E+08	1,741401E+07	0,000000E+00	0,000000E+00	1,741704E+07	1,920548E+08	5,460852E+08	9,846100E+08	1,321188E+09	1,321171E+09	9,845660E+08	5,460417E+08
-1071	1,920258E+08	1,740887E+07	0,000000E+00	0,000000E+00	1,740590E+07	1,920180E+08	5,460460E+08	9,845897E+08	1,321215E+09	1,321238E+09	9,846468E+08	5,460982E+08
-1070	1,920527E+08	1,741345E+07	0,000000E+00	0,000000E+00	1,741121E+07	1,920440E+08	5,460927E+08	9,846471E+08	1,321248E+09	1,321243E+09	9,846288E+08	5,460650E+08
-1069	1,920182E+08	1,740349E+07	0,000000E+00	0,000000E+00	1,740484E+07	1,920318E+08	5,460923E+08	9,846791E+08	1,321305E+09	1,321279E+09	9,846325E+08	5,460656E+08
-1068	1,920254E+08	1,740399E+07	0,000000E+00	0,000000E+00	1,739963E+07	1,920072E+08	5,460555E+08	9,846444E+08	1,321309E+09	1,321336E+09	9,847046E+08	5,461091E+08
-1067	1,920406E+08	1,740688E+07	0,000000E+00	0,000000E+00	1,740793E+07	1,920429E+08	5,461080E+08	9,846998E+08	1,321328E+09	1,321311E+09	9,846545E+08	5,460569E+08
-1066	1,920043E+08	1,739756E+07	0,000000E+00	0,000000E+00	1,739963E+07	1,920197E+08	5,460792E+08	9,846693E+08	1,321312E+09	1,321312E+09	9,846743E+08	5,460893E+08
-1065	1,920335E+08	1,740606E+07	0,000000E+00	0,000000E+00	1,740345E+07	1,920182E+08	5,460664E+08	9,846388E+08	1,321273E+09	1,321291E+09	9,846813E+08	5,461040E+08
-1064	1,920365E+08	1,740623E+07	0,000000E+00	0,000000E+00	1,740966E+07	1,920465E+08	5,461036E+08	9,846714E+08	1,321270E+09	1,321239E+09	9,846005E+08	5,460455E+08
-1063	1,920178E+08	1,740481E+07	0,000000E+00	0,000000E+00	1,740417E+07	1,920153E+08	5,460447E+08	9,845921E+08	1,321215E+09	1,321226E+09	9,846244E+08	5,460857E+08
-1062	1,920563E+08	1,741784E+07	0,000000E+00	0,000000E+00	1,741535E+07	1,920416E+08	5,460586E+08	9,845646E+08	1,321145E+09	1,321151E+09	9,845748E+08	5,460577E+08
-1061	1,920358E+08	1,741443E+07	0,000000E+00	0,000000E+00	1,741863E+07	1,920555E+08	5,460702E+08	9,845641E+08	1,321119E+09	1,321092E+09	9,845048E+08	5,460265E+08
-1060	1,920391E+08	1,741905E+07	0,000000E+00	0,000000E+00	1,741769E+07	1,920321E+08	5,460193E+08	9,844865E+08	1,321058E+09	1,321082E+09	9,845438E+08	5,460729E+08
-1059	1,920708E+08	1,742759E+07	0,000000E+00	0,000000E+00	1,742885E+07	1,920715E+08	5,460676E+08	9,845226E+08	1,321042E+09	1,321020E+09	9,844715E+08	5,460182E+08
-1058	1,920376E+08	1,742153E+07	0,000000E+00	0,000000E+00	1,742505E+07	1,920570E+08	5,460456E+08	9,845006E+08	1,321032E+09	1,321008E+09	9,844622E+08	5,460303E+08
-1057	1,920613E+08	1,742881E+07	0,000000E+00	0,000000E+00	1,742447E+07	1,920398E+08	5,460076E+08	9,844473E+08	1,321001E+09	1,321025E+09	9,845059E+08	5,460618E+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	1,920708E+08	1,742985E+07	0,000000E+00	0,000000E+00	1,743149E+07	1,920743E+08	5,460575E+08	9,844990E+08	1,321020E+09	1,321005E+09	9,844541E+08	5,460071E+08
-1055	1,920389E+08	1,742305E+07	0,000000E+00	0,000000E+00	1,742213E+07	1,920416E+08	5,460169E+08	9,844656E+08	1,321023E+09	1,321041E+09	9,845089E+08	5,460559E+08
-1054	1,920687E+08	1,742862E+07	0,000000E+00	0,000000E+00	1,742449E+07	1,920513E+08	5,460329E+08	9,844795E+08	1,321025E+09	1,321045E+09	9,845197E+08	5,460562E+08
-1053	1,920511E+08	1,742200E+07	0,000000E+00	0,000000E+00	1,742501E+07	1,920667E+08	5,460745E+08	9,845555E+08	1,321096E+09	1,321065E+09	9,844886E+08	5,460207E+08
-1052	1,920356E+08	1,741634E+07	0,000000E+00	0,000000E+00	1,741322E+07	1,920262E+08	5,460286E+08	9,845300E+08	1,321127E+09	1,321147E+09	9,845805E+08	5,460781E+08
-1051	1,920614E+08	1,742136E+07	0,000000E+00	0,000000E+00	1,741898E+07	1,920515E+08	5,460743E+08	9,845920E+08	1,321166E+09	1,321156E+09	9,845672E+08	5,460461E+08
-1050	1,920252E+08	1,741079E+07	0,000000E+00	0,000000E+00	1,741293E+07	1,920422E+08	5,460737E+08	9,846131E+08	1,321210E+09	1,321186E+09	9,845702E+08	5,460472E+08
-1049	1,920321E+08	1,741123E+07	0,000000E+00	0,000000E+00	1,740770E+07	1,920165E+08	5,460314E+08	9,845614E+08	1,321189E+09	1,321225E+09	9,846397E+08	5,460961E+08
-1048	1,920518E+08	1,741498E+07	0,000000E+00	0,000000E+00	1,741657E+07	1,920552E+08	5,460909E+08	9,846203E+08	1,321202E+09	1,321194E+09	9,845864E+08	5,460442E+08
-1047	1,920184E+08	1,740665E+07	0,000000E+00	0,000000E+00	1,740801E+07	1,920296E+08	5,460603E+08	9,845968E+08	1,321196E+09	1,321191E+09	9,845952E+08	5,460719E+08
-1046	1,920484E+08	1,741614E+07	0,000000E+00	0,000000E+00	1,741256E+07	1,920288E+08	5,460417E+08	9,845527E+08	1,321143E+09	1,321156E+09	9,845896E+08	5,460802E+08
-1045	1,920506E+08	1,741695E+07	0,000000E+00	0,000000E+00	1,741973E+07	1,920586E+08	5,460790E+08	9,845842E+08	1,321141E+09	1,321105E+09	9,845057E+08	5,460184E+08
-1044	1,920299E+08	1,741515E+07	0,000000E+00	0,000000E+00	1,741485E+07	1,920292E+08	5,460209E+08	9,845013E+08	1,321081E+09	1,321096E+09	9,845393E+08	5,460611E+08
-1043	1,920663E+08	1,742772E+07	0,000000E+00	0,000000E+00	1,742633E+07	1,920577E+08	5,460446E+08	9,844932E+08	1,321023E+09	1,321022E+09	9,844901E+08	5,460347E+08
-1042	1,920451E+08	1,742340E+07	0,000000E+00	0,000000E+00	1,742922E+07	1,920725E+08	5,460601E+08	9,844992E+08	1,321007E+09	1,320970E+09	9,844217E+08	5,460040E+08
-1041	1,920492E+08	1,742787E+07	0,000000E+00	0,000000E+00	1,742683E+07	1,920426E+08	5,459973E+08	9,844096E+08	1,320942E+09	1,320964E+09	9,844660E+08	5,460547E+08
-1040	1,920840E+08	1,743697E+07	0,000000E+00	0,000000E+00	1,743755E+07	1,920808E+08	5,460435E+08	9,844403E+08	1,320926E+09	1,320913E+09	9,844035E+08	5,460028E+08
-1039	1,920524E+08	1,743150E+07	0,000000E+00	0,000000E+00	1,743326E+07	1,920632E+08	5,460164E+08	9,844167E+08	1,320918E+09	1,320903E+09	9,843956E+08	5,460146E+08
-1038	1,920745E+08	1,743834E+07	0,000000E+00	0,000000E+00	1,743321E+07	1,920495E+08	5,459780E+08	9,843518E+08	1,320867E+09	1,320901E+09	9,844299E+08	5,460439E+08
-1037	1,920825E+08	1,743904E+07	0,000000E+00	0,000000E+00	1,744064E+07	1,920875E+08	5,460392E+08	9,844183E+08	1,320894E+09	1,320879E+09	9,843726E+08	5,459875E+08
-1036	1,920494E+08	1,743100E+07	0,000000E+00	0,000000E+00	1,743065E+07	1,920541E+08	5,460035E+08	9,843985E+08	1,320911E+09	1,320926E+09	9,844339E+08	5,460358E+08
-1035	1,920775E+08	1,743625E+07	0,000000E+00	0,000000E+00	1,743247E+07	1,920623E+08	5,460252E+08	9,844365E+08	1,320942E+09	1,320944E+09	9,844461E+08	5,460345E+08
-1034	1,920588E+08	1,742913E+07	0,000000E+00	0,000000E+00	1,743251E+07	1,920770E+08	5,460632E+08	9,845075E+08	1,321021E+09	1,320981E+09	9,844230E+08	5,459986E+08
-1033	1,920420E+08	1,742331E+07	0,000000E+00	0,000000E+00	1,742010E+07	1,920322E+08	5,460044E+08	9,844608E+08	1,321035E+09	1,321062E+09	9,845234E+08	5,460616E+08
-1032	1,920700E+08	1,742878E+07	0,000000E+00	0,000000E+00	1,742674E+07	1,920618E+08	5,460545E+08	9,845167E+08	1,321063E+09	1,321069E+09	9,845170E+08	5,460358E+08
-1031	1,920363E+08	1,741865E+07	0,000000E+00	0,000000E+00	1,742062E+07	1,920522E+08	5,460568E+08	9,845443E+08	1,321105E+09	1,321087E+09	9,845105E+08	5,460357E+08
-1030	1,920437E+08	1,741931E+07	0,000000E+00	0,000000E+00	1,741620E+07	1,920285E+08	5,460136E+08	9,844862E+08	1,321068E+09	1,321101E+09	9,845618E+08	5,460799E+08
-1029	1,920653E+08	1,742408E+07	0,000000E+00	0,000000E+00	1,742535E+07	1,920669E+08	5,460736E+08	9,845488E+08	1,321087E+09	1,321068E+09	9,844980E+08	5,460219E+08
-1028	1,920313E+08	1,741590E+07	0,000000E+00	0,000000E+00	1,741701E+07	1,920395E+08	5,460373E+08	9,845163E+08	1,321077E+09	1,321070E+09	9,845106E+08	5,460464E+08
-1027	1,920593E+08	1,742598E+07	0,000000E+00	0,000000E+00	1,742235E+07	1,920400E+08	5,460211E+08	9,844792E+08	1,321027E+09	1,321034E+09	9,845035E+08	5,460536E+08
-1026	1,920600E+08	1,742631E+07	0,000000E+00	0,000000E+00	1,743027E+07	1,920741E+08	5,460595E+08	9,845018E+08	1,321017E+09	1,320981E+09	9,844210E+08	5,459926E+08
-1025	1,920384E+08	1,742429E+07	0,000000E+00	0,000000E+00	1,742497E+07	1,920423E+08	5,459975E+08	9,844104E+08	1,320944E+09	1,320965E+09	9,844576E+08	5,460422E+08
-1024	1,920787E+08	1,743718E+07	0,000000E+00	0,000000E+00	1,743630E+07	1,920719E+08	5,460265E+08	9,844094E+08	1,320893E+09	1,320899E+09	9,844140E+08	5,460198E+08
-1023	1,920615E+08	1,743388E+07	0,000000E+00	0,000000E+00	1,743827E+07	1,920814E+08	5,460368E+08	9,844210E+08	1,320889E+09	1,320850E+09	9,843435E+08	5,459871E+08
-1022	1,920656E+08	1,743865E+07	0,000000E+00	0,000000E+00	1,743612E+07	1,920515E+08	5,459667E+08	9,843156E+08	1,320809E+09	1,320835E+09	9,843814E+08	5,460346E+08
-1021	1,920996E+08	1,744794E+07	0,000000E+00	0,000000E+00	1,744708E+07	1,920908E+08	5,460145E+08	9,843472E+08	1,320795E+09	1,320785E+09	9,843178E+08	5,459803E+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	1,920650E+08	1,744133E+07	0,000000E+00	0,000000E+00	1,744316E+07	1,920761E+08	5,459928E+08	9,843271E+08	1,320786E+09	1,320780E+09	9,843180E+08	5,459929E+08
-1019	1,920838E+08	1,744697E+07	0,000000E+00	0,000000E+00	1,744285E+07	1,920650E+08	5,459694E+08	9,842914E+08	1,320756E+09	1,320782E+09	9,843504E+08	5,460212E+08
-1018	1,920897E+08	1,744629E+07	0,000000E+00	0,000000E+00	1,744960E+07	1,921034E+08	5,460346E+08	9,843690E+08	1,320803E+09	1,320775E+09	9,842982E+08	5,459646E+08
-1017	1,920557E+08	1,743771E+07	0,000000E+00	0,000000E+00	1,743792E+07	1,920635E+08	5,459897E+08	9,843436E+08	1,320825E+09	1,320834E+09	9,843692E+08	5,460172E+08
-1016	1,920856E+08	1,744318E+07	0,000000E+00	0,000000E+00	1,743943E+07	1,920706E+08	5,460089E+08	9,843763E+08	1,320859E+09	1,320869E+09	9,843947E+08	5,460201E+08
-1015	1,920695E+08	1,743703E+07	0,000000E+00	0,000000E+00	1,743908E+07	1,920819E+08	5,460404E+08	9,844423E+08	1,320934E+09	1,320903E+09	9,843735E+08	5,459865E+08
-1014	1,920525E+08	1,743112E+07	0,000000E+00	0,000000E+00	1,742781E+07	1,920412E+08	5,459789E+08	9,843769E+08	1,320918E+09	1,320956E+09	9,844608E+08	5,460490E+08
-1013	1,920817E+08	1,743702E+07	0,000000E+00	0,000000E+00	1,743483E+07	1,920725E+08	5,460353E+08	9,844387E+08	1,320942E+09	1,320950E+09	9,844428E+08	5,460209E+08
-1012	1,920490E+08	1,742678E+07	0,000000E+00	0,000000E+00	1,742896E+07	1,920629E+08	5,460392E+08	9,844710E+08	1,320986E+09	1,320967E+09	9,844342E+08	5,460174E+08
-1011	1,920556E+08	1,742799E+07	0,000000E+00	0,000000E+00	1,742474E+07	1,920391E+08	5,459999E+08	9,844271E+08	1,320962E+09	1,320980E+09	9,844752E+08	5,460547E+08
-1010	1,920756E+08	1,743275E+07	0,000000E+00	0,000000E+00	1,743420E+07	1,920783E+08	5,460557E+08	9,844801E+08	1,320982E+09	1,320955E+09	9,844148E+08	5,459940E+08
-1009	1,920399E+08	1,742482E+07	0,000000E+00	0,000000E+00	1,742605E+07	1,920498E+08	5,460117E+08	9,844312E+08	1,320956E+09	1,320954E+09	9,844330E+08	5,460225E+08
-1008	1,920685E+08	1,743500E+07	0,000000E+00	0,000000E+00	1,743226E+07	1,920545E+08	5,460013E+08	9,843922E+08	1,320902E+09	1,320921E+09	9,844327E+08	5,460351E+08
-1007	1,920726E+08	1,743609E+07	0,000000E+00	0,000000E+00	1,743990E+07	1,920872E+08	5,460423E+08	9,844244E+08	1,320895E+09	1,320863E+09	9,843474E+08	5,459768E+08
-1006	1,920526E+08	1,743433E+07	0,000000E+00	0,000000E+00	1,743514E+07	1,920557E+08	5,459754E+08	9,843241E+08	1,320810E+09	1,320829E+09	9,843712E+08	5,460241E+08
-1005	1,920950E+08	1,744791E+07	0,000000E+00	0,000000E+00	1,744602E+07	1,920831E+08	5,460033E+08	9,843255E+08	1,320766E+09	1,320765E+09	9,843234E+08	5,459987E+08
-1004	1,920774E+08	1,744463E+07	0,000000E+00	0,000000E+00	1,744824E+07	1,920911E+08	5,460082E+08	9,843294E+08	1,320758E+09	1,320725E+09	9,842615E+08	5,459644E+08
-1003	1,920784E+08	1,744903E+07	0,000000E+00	0,000000E+00	1,744634E+07	1,920637E+08	5,459447E+08	9,842343E+08	1,320682E+09	1,320706E+09	9,842959E+08	5,460088E+08
-1002	1,921085E+08	1,745689E+07	0,000000E+00	0,000000E+00	1,745740E+07	1,921068E+08	5,459971E+08	9,842656E+08	1,320669E+09	1,320661E+09	9,842359E+08	5,459549E+08
-1001	1,920719E+08	1,744929E+07	0,000000E+00	0,000000E+00	1,745248E+07	1,920901E+08	5,459767E+08	9,842494E+08	1,320661E+09	1,320657E+09	9,842406E+08	5,459723E+08
-1000	1,920923E+08	1,745438E+07	0,000000E+00	0,000000E+00	1,745127E+07	1,920786E+08	5,459592E+08	9,842294E+08	1,320654E+09	1,320679E+09	9,842824E+08	5,460042E+08
-999	1,921020E+08	1,745461E+07	0,000000E+00	0,000000E+00	1,745658E+07	1,921105E+08	5,460193E+08	9,843148E+08	1,320719E+09	1,320686E+09	9,842373E+08	5,459498E+08
-998	1,920679E+08	1,744606E+07	0,000000E+00	0,000000E+00	1,744497E+07	1,920695E+08	5,459652E+08	9,842727E+08	1,320728E+09	1,320739E+09	9,843065E+08	5,460018E+08
-997	1,920978E+08	1,745185E+07	0,000000E+00	0,000000E+00	1,744667E+07	1,920776E+08	5,459858E+08	9,843037E+08	1,320758E+09	1,320772E+09	9,843327E+08	5,460052E+08
-996	1,920806E+08	1,744511E+07	0,000000E+00	0,000000E+00	1,744695E+07	1,920908E+08	5,460187E+08	9,843657E+08	1,320824E+09	1,320803E+09	9,843145E+08	5,459715E+08
-995	1,920617E+08	1,743870E+07	0,000000E+00	0,000000E+00	1,743612E+07	1,920539E+08	5,459703E+08	9,843202E+08	1,320813E+09	1,320845E+09	9,843885E+08	5,460297E+08
-994	1,920900E+08	1,744414E+07	0,000000E+00	0,000000E+00	1,744323E+07	1,920854E+08	5,460246E+08	9,843809E+08	1,320844E+09	1,320842E+09	9,843671E+08	5,459977E+08
-993	1,920568E+08	1,743414E+07	0,000000E+00	0,000000E+00	1,743672E+07	1,920720E+08	5,460198E+08	9,844017E+08	1,320881E+09	1,320858E+09	9,843595E+08	5,459954E+08
-992	1,920652E+08	1,743615E+07	0,000000E+00	0,000000E+00	1,743311E+07	1,920492E+08	5,459793E+08	9,843521E+08	1,320857E+09	1,320881E+09	9,844068E+08	5,460342E+08
-991	1,920878E+08	1,744227E+07	0,000000E+00	0,000000E+00	1,744262E+07	1,920866E+08	5,460305E+08	9,843992E+08	1,320868E+09	1,320848E+09	9,843464E+08	5,459764E+08
-990	1,920521E+08	1,743455E+07	0,000000E+00	0,000000E+00	1,743595E+07	1,920626E+08	5,459857E+08	9,843347E+08	1,320814E+09	1,320821E+09	9,843521E+08	5,460042E+08
-989	1,920822E+08	1,744512E+07	0,000000E+00	0,000000E+00	1,744236E+07	1,920687E+08	5,459824E+08	9,843049E+08	1,320761E+09	1,320779E+09	9,843440E+08	5,460155E+08
-988	1,920873E+08	1,744630E+07	0,000000E+00	0,000000E+00	1,745022E+07	1,921002E+08	5,460217E+08	9,843403E+08	1,320761E+09	1,320726E+09	9,842604E+08	5,459557E+08
-987	1,920671E+08	1,744500E+07	0,000000E+00	0,000000E+00	1,744565E+07	1,920692E+08	5,459592E+08	9,842516E+08	1,320686E+09	1,320693E+09	9,842769E+08	5,459976E+08
-986	1,921074E+08	1,745799E+07	0,000000E+00	0,000000E+00	1,745639E+07	1,920960E+08	5,459805E+08	9,842431E+08	1,320644E+09	1,320642E+09	9,842357E+08	5,459702E+08
-985	1,920873E+08	1,745434E+07	0,000000E+00	0,000000E+00	1,745837E+07	1,921033E+08	5,459816E+08	9,842369E+08	1,320625E+09	1,320599E+09	9,841814E+08	5,459416E+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	1,920879E+08	1,745796E+07	0,000000E+00	0,000000E+00	1,745640E+07	1,920794E+08	5,459276E+08	9,841514E+08	1,320557E+09	1,320591E+09	9,842229E+08	5,459896E+08
-983	1,921196E+08	1,746576E+07	0,000000E+00	0,000000E+00	1,746607E+07	1,921189E+08	5,459841E+08	9,842001E+08	1,320559E+09	1,320550E+09	9,841665E+08	5,459394E+08
-982	1,920839E+08	1,745787E+07	0,000000E+00	0,000000E+00	1,746093E+07	1,921012E+08	5,459602E+08	9,841811E+08	1,320552E+09	1,320543E+09	9,841660E+08	5,459551E+08
-981	1,921050E+08	1,746308E+07	0,000000E+00	0,000000E+00	1,745862E+07	1,920866E+08	5,459414E+08	9,841663E+08	1,320558E+09	1,320576E+09	9,842112E+08	5,459859E+08
-980	1,921142E+08	1,746344E+07	0,000000E+00	0,000000E+00	1,746413E+07	1,921163E+08	5,459946E+08	9,842435E+08	1,320622E+09	1,320596E+09	9,841794E+08	5,459341E+08
-979	1,920786E+08	1,745455E+07	0,000000E+00	0,000000E+00	1,745302E+07	1,920786E+08	5,459466E+08	9,842065E+08	1,320626E+09	1,320639E+09	9,842411E+08	5,459824E+08
-978	1,921050E+08	1,745906E+07	0,000000E+00	0,000000E+00	1,745499E+07	1,920894E+08	5,459687E+08	9,842330E+08	1,320651E+09	1,320670E+09	9,842674E+08	5,459858E+08
-977	1,920871E+08	1,745186E+07	0,000000E+00	0,000000E+00	1,745473E+07	1,921012E+08	5,460018E+08	9,842945E+08	1,320710E+09	1,320692E+09	9,842474E+08	5,459553E+08
-976	1,920701E+08	1,744546E+07	0,000000E+00	0,000000E+00	1,744387E+07	1,920653E+08	5,459569E+08	9,842574E+08	1,320713E+09	1,320743E+09	9,843205E+08	5,460125E+08
-975	1,921018E+08	1,745241E+07	0,000000E+00	0,000000E+00	1,745023E+07	1,920921E+08	5,460059E+08	9,843184E+08	1,320749E+09	1,320744E+09	9,843004E+08	5,459807E+08
-974	1,920692E+08	1,744305E+07	0,000000E+00	0,000000E+00	1,744486E+07	1,920802E+08	5,459937E+08	9,843193E+08	1,320763E+09	1,320744E+09	9,842842E+08	5,459751E+08
-973	1,920775E+08	1,744579E+07	0,000000E+00	0,000000E+00	1,744205E+07	1,920603E+08	5,459573E+08	9,842704E+08	1,320735E+09	1,320760E+09	9,843282E+08	5,460129E+08
-972	1,920990E+08	1,745179E+07	0,000000E+00	0,000000E+00	1,745256E+07	1,921001E+08	5,460114E+08	9,843163E+08	1,320739E+09	1,320725E+09	9,842711E+08	5,459577E+08
-971	1,920636E+08	1,744403E+07	0,000000E+00	0,000000E+00	1,744651E+07	1,920793E+08	5,459777E+08	9,842700E+08	1,320692E+09	1,320688E+09	9,842631E+08	5,459799E+08
-970	1,920924E+08	1,745411E+07	0,000000E+00	0,000000E+00	1,745272E+07	1,920840E+08	5,459689E+08	9,842361E+08	1,320646E+09	1,320654E+09	9,842568E+08	5,459894E+08
-969	1,920977E+08	1,745563E+07	0,000000E+00	0,000000E+00	1,745985E+07	1,921109E+08	5,459977E+08	9,842570E+08	1,320637E+09	1,320602E+09	9,841778E+08	5,459330E+08
-968	1,920789E+08	1,745480E+07	0,000000E+00	0,000000E+00	1,745574E+07	1,920810E+08	5,459333E+08	9,841634E+08	1,320563E+09	1,320579E+09	9,842004E+08	5,459772E+08
-967	1,921214E+08	1,746848E+07	0,000000E+00	0,000000E+00	1,746580E+07	1,921056E+08	5,459517E+08	9,841508E+08	1,320514E+09	1,320521E+09	9,841620E+08	5,459531E+08
-966	1,921006E+08	1,746447E+07	0,000000E+00	0,000000E+00	1,746843E+07	1,921158E+08	5,459545E+08	9,841366E+08	1,320476E+09	1,320459E+09	9,840977E+08	5,459241E+08
-965	1,921024E+08	1,746800E+07	0,000000E+00	0,000000E+00	1,746566E+07	1,920921E+08	5,459104E+08	9,840718E+08	1,320424E+09	1,320452E+09	9,841361E+08	5,459699E+08
-964	1,921332E+08	1,747545E+07	0,000000E+00	0,000000E+00	1,747485E+07	1,921285E+08	5,459645E+08	9,841276E+08	1,320444E+09	1,320429E+09	9,840884E+08	5,459205E+08
-963	1,920972E+08	1,746753E+07	0,000000E+00	0,000000E+00	1,746954E+07	1,921116E+08	5,459467E+08	9,841225E+08	1,320453E+09	1,320433E+09	9,840867E+08	5,459308E+08
-962	1,921143E+08	1,747152E+07	0,000000E+00	0,000000E+00	1,746713E+07	1,920969E+08	5,459224E+08	9,841003E+08	1,320464E+09	1,320483E+09	9,841435E+08	5,459617E+08
-961	1,921205E+08	1,747111E+07	0,000000E+00	0,000000E+00	1,747234E+07	1,921259E+08	5,459720E+08	9,841673E+08	1,320515E+09	1,320500E+09	9,841208E+08	5,459179E+08
-960	1,920855E+08	1,746140E+07	0,000000E+00	0,000000E+00	1,746139E+07	1,920920E+08	5,459327E+08	9,841402E+08	1,320527E+09	1,320548E+09	9,841846E+08	5,459693E+08
-959	1,921144E+08	1,746615E+07	0,000000E+00	0,000000E+00	1,746210E+07	1,920983E+08	5,459548E+08	9,841749E+08	1,320557E+09	1,320574E+09	9,842090E+08	5,459744E+08
-958	1,920979E+08	1,745919E+07	0,000000E+00	0,000000E+00	1,746202E+07	1,921096E+08	5,459829E+08	9,842267E+08	1,320604E+09	1,320582E+09	9,841767E+08	5,459399E+08
-957	1,920825E+08	1,745371E+07	0,000000E+00	0,000000E+00	1,745097E+07	1,920732E+08	5,459392E+08	9,841929E+08	1,320612E+09	1,320633E+09	9,842459E+08	5,459920E+08
-956	1,921126E+08	1,746124E+07	0,000000E+00	0,000000E+00	1,745833E+07	1,920995E+08	5,459822E+08	9,842435E+08	1,320641E+09	1,320638E+09	9,842316E+08	5,459614E+08
-955	1,920799E+08	1,745219E+07	0,000000E+00	0,000000E+00	1,745430E+07	1,920939E+08	5,459793E+08	9,842485E+08	1,320647E+09	1,320625E+09	9,842038E+08	5,459505E+08
-954	1,920851E+08	1,745412E+07	0,000000E+00	0,000000E+00	1,745221E+07	1,920765E+08	5,459435E+08	9,841959E+08	1,320615E+09	1,320639E+09	9,842474E+08	5,459879E+08
-953	1,921065E+08	1,746002E+07	0,000000E+00	0,000000E+00	1,746219E+07	1,921135E+08	5,459943E+08	9,842391E+08	1,320613E+09	1,320596E+09	9,841911E+08	5,459390E+08
-952	1,920751E+08	1,745297E+07	0,000000E+00	0,000000E+00	1,745634E+07	1,920923E+08	5,459590E+08	9,841965E+08	1,320580E+09	1,320571E+09	9,841836E+08	5,459612E+08
-951	1,921075E+08	1,746445E+07	0,000000E+00	0,000000E+00	1,746145E+07	1,920912E+08	5,459419E+08	9,841556E+08	1,320532E+09	1,320540E+09	9,841820E+08	5,459725E+08
-950	1,921134E+08	1,746650E+07	0,000000E+00	0,000000E+00	1,746945E+07	1,921193E+08	5,459636E+08	9,841550E+08	1,320496E+09	1,320470E+09	9,840954E+08	5,459141E+08
-949	1,920947E+08	1,746605E+07	0,000000E+00	0,000000E+00	1,746575E+07	1,920930E+08	5,459069E+08	9,840663E+08	1,320418E+09	1,320436E+09	9,841129E+08	5,459558E+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	1,921346E+08	1,747906E+07	0,000000E+00	0,000000E+00	1,747618E+07	1,921191E+08	5,459298E+08	9,840604E+08	1,320373E+09	1,320384E+09	9,840782E+08	5,459338E+08
-947	1,921138E+08	1,747457E+07	0,000000E+00	0,000000E+00	1,747901E+07	1,921328E+08	5,459460E+08	9,840692E+08	1,320351E+09	1,320320E+09	9,840033E+08	5,458972E+08
-946	1,921119E+08	1,747679E+07	0,000000E+00	0,000000E+00	1,747545E+07	1,921068E+08	5,458984E+08	9,840093E+08	1,320321E+09	1,320338E+09	9,840515E+08	5,459413E+08
-945	1,921406E+08	1,748379E+07	0,000000E+00	0,000000E+00	1,748351E+07	1,921383E+08	5,459446E+08	9,840583E+08	1,320341E+09	1,320327E+09	9,840190E+08	5,459007E+08
-944	1,921063E+08	1,747576E+07	0,000000E+00	0,000000E+00	1,747820E+07	1,921216E+08	5,459242E+08	9,840527E+08	1,320361E+09	1,320347E+09	9,840284E+08	5,459148E+08
-943	1,921242E+08	1,747961E+07	0,000000E+00	0,000000E+00	1,747471E+07	1,921046E+08	5,458992E+08	9,840270E+08	1,320364E+09	1,320392E+09	9,840908E+08	5,459510E+08
-942	1,921305E+08	1,747869E+07	0,000000E+00	0,000000E+00	1,748013E+07	1,921349E+08	5,459488E+08	9,840843E+08	1,320393E+09	1,320387E+09	9,840561E+08	5,459069E+08
-941	1,920975E+08	1,746911E+07	0,000000E+00	0,000000E+00	1,746862E+07	1,921018E+08	5,459184E+08	9,840745E+08	1,320414E+09	1,320428E+09	9,841104E+08	5,459538E+08
-940	1,921259E+08	1,747415E+07	0,000000E+00	0,000000E+00	1,746942E+07	1,921057E+08	5,459358E+08	9,841100E+08	1,320454E+09	1,320465E+09	9,841379E+08	5,459582E+08
-939	1,921102E+08	1,746777E+07	0,000000E+00	0,000000E+00	1,746993E+07	1,921199E+08	5,459702E+08	9,841686E+08	1,320506E+09	1,320473E+09	9,840962E+08	5,459146E+08
-938	1,920908E+08	1,746185E+07	0,000000E+00	0,000000E+00	1,745963E+07	1,920850E+08	5,459228E+08	9,841281E+08	1,320515E+09	1,320533E+09	9,841720E+08	5,459641E+08
-937	1,921178E+08	1,746904E+07	0,000000E+00	0,000000E+00	1,746722E+07	1,921116E+08	5,459634E+08	9,841688E+08	1,320529E+09	1,320531E+09	9,841634E+08	5,459423E+08
-936	1,920877E+08	1,746000E+07	0,000000E+00	0,000000E+00	1,746379E+07	1,921090E+08	5,459660E+08	9,841825E+08	1,320546E+09	1,320523E+09	9,841359E+08	5,459341E+08
-935	1,920960E+08	1,746267E+07	0,000000E+00	0,000000E+00	1,746079E+07	1,920872E+08	5,459271E+08	9,841301E+08	1,320511E+09	1,320531E+09	9,841793E+08	5,459746E+08
-934	1,921202E+08	1,746920E+07	0,000000E+00	0,000000E+00	1,747081E+07	1,921216E+08	5,459669E+08	9,841529E+08	1,320488E+09	1,320472E+09	9,841120E+08	5,459239E+08
-933	1,920921E+08	1,746376E+07	0,000000E+00	0,000000E+00	1,746538E+07	1,921008E+08	5,459314E+08	9,841077E+08	1,320449E+09	1,320439E+09	9,840996E+08	5,459420E+08
-932	1,921233E+08	1,747583E+07	0,000000E+00	0,000000E+00	1,747146E+07	1,920996E+08	5,459069E+08	9,840526E+08	1,320388E+09	1,320406E+09	9,840993E+08	5,459533E+08
-931	1,921284E+08	1,747781E+07	0,000000E+00	0,000000E+00	1,748066E+07	1,921352E+08	5,459422E+08	9,840591E+08	1,320344E+09	1,320320E+09	9,839975E+08	5,458869E+08
-930	1,921054E+08	1,747613E+07	0,000000E+00	0,000000E+00	1,747733E+07	1,921117E+08	5,458920E+08	9,839807E+08	1,320277E+09	1,320292E+09	9,840152E+08	5,459247E+08
-929	1,921421E+08	1,748797E+07	0,000000E+00	0,000000E+00	1,748651E+07	1,921342E+08	5,459143E+08	9,839830E+08	1,320242E+09	1,320246E+09	9,839870E+08	5,459096E+08
-928	1,921242E+08	1,748363E+07	0,000000E+00	0,000000E+00	1,748890E+07	1,921468E+08	5,459305E+08	9,840054E+08	1,320252E+09	1,320212E+09	9,839244E+08	5,458757E+08
-927	1,921240E+08	1,748610E+07	0,000000E+00	0,000000E+00	1,748363E+07	1,921147E+08	5,458766E+08	9,839425E+08	1,320228E+09	1,320244E+09	9,839875E+08	5,459250E+08
-926	1,921523E+08	1,749275E+07	0,000000E+00	0,000000E+00	1,749169E+07	1,921456E+08	5,459157E+08	9,839735E+08	1,320227E+09	1,320224E+09	9,839561E+08	5,458881E+08
-925	1,921195E+08	1,748483E+07	0,000000E+00	0,000000E+00	1,748629E+07	1,921315E+08	5,459034E+08	9,839754E+08	1,320245E+09	1,320238E+09	9,839646E+08	5,459016E+08
-924	1,921349E+08	1,748775E+07	0,000000E+00	0,000000E+00	1,748272E+07	1,921142E+08	5,458799E+08	9,839544E+08	1,320252E+09	1,320285E+09	9,840275E+08	5,459391E+08
-923	1,921420E+08	1,748657E+07	0,000000E+00	0,000000E+00	1,748817E+07	1,921475E+08	5,459405E+08	9,840273E+08	1,320289E+09	1,320272E+09	9,839774E+08	5,458851E+08
-922	1,921059E+08	1,747628E+07	0,000000E+00	0,000000E+00	1,747646E+07	1,921134E+08	5,459074E+08	9,840204E+08	1,320326E+09	1,320328E+09	9,840336E+08	5,459258E+08
-921	1,921313E+08	1,748114E+07	0,000000E+00	0,000000E+00	1,747693E+07	1,921142E+08	5,459176E+08	9,840468E+08	1,320360E+09	1,320370E+09	9,840704E+08	5,459378E+08
-920	1,921184E+08	1,747540E+07	0,000000E+00	0,000000E+00	1,747825E+07	1,921305E+08	5,459501E+08	9,841041E+08	1,320420E+09	1,320388E+09	9,840359E+08	5,458971E+08
-919	1,920998E+08	1,746981E+07	0,000000E+00	0,000000E+00	1,746755E+07	1,920948E+08	5,459029E+08	9,840575E+08	1,320415E+09	1,320440E+09	9,841149E+08	5,459515E+08
-918	1,921277E+08	1,747697E+07	0,000000E+00	0,000000E+00	1,747551E+07	1,921215E+08	5,459411E+08	9,840855E+08	1,320404E+09	1,320413E+09	9,840941E+08	5,459311E+08
-917	1,921023E+08	1,746914E+07	0,000000E+00	0,000000E+00	1,747203E+07	1,921188E+08	5,459468E+08	9,841061E+08	1,320420E+09	1,320393E+09	9,840564E+08	5,459181E+08
-916	1,921108E+08	1,747277E+07	0,000000E+00	0,000000E+00	1,746966E+07	1,920949E+08	5,458995E+08	9,840455E+08	1,320387E+09	1,320407E+09	9,840988E+08	5,459580E+08
-915	1,921367E+08	1,748011E+07	0,000000E+00	0,000000E+00	1,748067E+07	1,921333E+08	5,459439E+08	9,840659E+08	1,320355E+09	1,320336E+09	9,840167E+08	5,458962E+08
-914	1,921044E+08	1,747432E+07	0,000000E+00	0,000000E+00	1,747656E+07	1,921161E+08	5,459082E+08	9,840166E+08	1,320313E+09	1,320305E+09	9,840048E+08	5,459096E+08
-913	1,921315E+08	1,748553E+07	0,000000E+00	0,000000E+00	1,748267E+07	1,921163E+08	5,458865E+08	9,839602E+08	1,320244E+09	1,320265E+09	9,840092E+08	5,459290E+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°
-912	1,921382E+08	1,748710E+07	0,000000E+00	0,000000E+00	1,749194E+07	1,921535E+08	5,459284E+08	9,839852E+08	1,320224E+09	1,320192E+09	9,839108E+08	5,458640E+08
-911	1,921165E+08	1,748546E+07	0,000000E+00	0,000000E+00	1,748695E+07	1,921253E+08	5,458782E+08	9,839154E+08	1,320169E+09	1,320175E+09	9,839367E+08	5,459048E+08
-910	1,921534E+08	1,749700E+07	0,000000E+00	0,000000E+00	1,749522E+07	1,921434E+08	5,458909E+08	9,839042E+08	1,320127E+09	1,320129E+09	9,839093E+08	5,458919E+08
-909	1,921393E+08	1,749383E+07	0,000000E+00	0,000000E+00	1,749732E+07	1,921546E+08	5,459062E+08	9,839276E+08	1,320139E+09	1,320102E+09	9,838536E+08	5,458587E+08
-908	1,921376E+08	1,749617E+07	0,000000E+00	0,000000E+00	1,749241E+07	1,921220E+08	5,458457E+08	9,838544E+08	1,320110E+09	1,320138E+09	9,839241E+08	5,459122E+08
-907	1,921658E+08	1,750224E+07	0,000000E+00	0,000000E+00	1,750089E+07	1,921585E+08	5,458966E+08	9,838903E+08	1,320100E+09	1,320101E+09	9,838785E+08	5,458687E+08
-906	1,921296E+08	1,749305E+07	0,000000E+00	0,000000E+00	1,749552E+07	1,921457E+08	5,458895E+08	9,839033E+08	1,320128E+09	1,320119E+09	9,838852E+08	5,458775E+08
-905	1,921421E+08	1,749483E+07	0,000000E+00	0,000000E+00	1,749075E+07	1,921251E+08	5,458647E+08	9,838880E+08	1,320142E+09	1,320170E+09	9,839517E+08	5,459196E+08
-904	1,921513E+08	1,749400E+07	0,000000E+00	0,000000E+00	1,749595E+07	1,921573E+08	5,459245E+08	9,839726E+08	1,320209E+09	1,320182E+09	9,839097E+08	5,458654E+08
-903	1,921160E+08	1,748412E+07	0,000000E+00	0,000000E+00	1,748334E+07	1,921208E+08	5,458893E+08	9,839624E+08	1,320245E+09	1,320248E+09	9,839761E+08	5,459083E+08
-902	1,921396E+08	1,748871E+07	0,000000E+00	0,000000E+00	1,748426E+07	1,921216E+08	5,458930E+08	9,839695E+08	1,320255E+09	1,320274E+09	9,840099E+08	5,459234E+08
-901	1,921302E+08	1,748391E+07	0,000000E+00	0,000000E+00	1,748610E+07	1,921415E+08	5,459340E+08	9,840327E+08	1,320308E+09	1,320281E+09	9,839734E+08	5,458838E+08
-900	1,921109E+08	1,747829E+07	0,000000E+00	0,000000E+00	1,747607E+07	1,921053E+08	5,458844E+08	9,839849E+08	1,320302E+09	1,320329E+09	9,840475E+08	5,459390E+08
-899	1,921409E+08	1,748574E+07	0,000000E+00	0,000000E+00	1,748439E+07	1,921345E+08	5,459280E+08	9,840163E+08	1,320287E+09	1,320286E+09	9,840078E+08	5,459088E+08
-898	1,921143E+08	1,747818E+07	0,000000E+00	0,000000E+00	1,748154E+07	1,921315E+08	5,459289E+08	9,840328E+08	1,320307E+09	1,320274E+09	9,839689E+08	5,458888E+08
-897	1,921199E+08	1,748185E+07	0,000000E+00	0,000000E+00	1,747938E+07	1,921057E+08	5,458739E+08	9,839580E+08	1,320259E+09	1,320281E+09	9,840152E+08	5,459344E+08
-896	1,921479E+08	1,748978E+07	0,000000E+00	0,000000E+00	1,749124E+07	1,921468E+08	5,459181E+08	9,839797E+08	1,320234E+09	1,320216E+09	9,839353E+08	5,458733E+08
-895	1,921158E+08	1,748416E+07	0,000000E+00	0,000000E+00	1,748687E+07	1,921308E+08	5,458878E+08	9,839301E+08	1,320182E+09	1,320178E+09	9,839237E+08	5,458886E+08
-894	1,921422E+08	1,749476E+07	0,000000E+00	0,000000E+00	1,749255E+07	1,921295E+08	5,458653E+08	9,838701E+08	1,320102E+09	1,320123E+09	9,839196E+08	5,459093E+08
-893	1,921537E+08	1,749745E+07	0,000000E+00	0,000000E+00	1,750130E+07	1,921655E+08	5,459107E+08	9,839075E+08	1,320093E+09	1,320055E+09	9,838243E+08	5,458445E+08
-892	1,921319E+08	1,749636E+07	0,000000E+00	0,000000E+00	1,749624E+07	1,921336E+08	5,458519E+08	9,838342E+08	1,320051E+09	1,320057E+09	9,838584E+08	5,458873E+08
-891	1,921693E+08	1,750781E+07	0,000000E+00	0,000000E+00	1,750474E+07	1,921547E+08	5,458683E+08	9,838209E+08	1,320005E+09	1,320008E+09	9,838257E+08	5,458680E+08
-890	1,921520E+08	1,750408E+07	0,000000E+00	0,000000E+00	1,750759E+07	1,921679E+08	5,458838E+08	9,838434E+08	1,320018E+09	1,319988E+09	9,837762E+08	5,458326E+08
-889	1,921454E+08	1,750465E+07	0,000000E+00	0,000000E+00	1,750215E+07	1,921361E+08	5,458269E+08	9,837727E+08	1,319985E+09	1,320021E+09	9,838520E+08	5,458943E+08
-888	1,921749E+08	1,750998E+07	0,000000E+00	0,000000E+00	1,751005E+07	1,921721E+08	5,458826E+08	9,838286E+08	1,320002E+09	1,319997E+09	9,838086E+08	5,458509E+08
-887	1,921391E+08	1,750042E+07	0,000000E+00	0,000000E+00	1,750303E+07	1,921559E+08	5,458768E+08	9,838481E+08	1,320039E+09	1,320024E+09	9,838207E+08	5,458603E+08
-886	1,921507E+08	1,750180E+07	0,000000E+00	0,000000E+00	1,749739E+07	1,921317E+08	5,458447E+08	9,838219E+08	1,320045E+09	1,320072E+09	9,838862E+08	5,459033E+08
-885	1,921637E+08	1,750232E+07	0,000000E+00	0,000000E+00	1,750266E+07	1,921636E+08	5,459040E+08	9,839051E+08	1,320108E+09	1,320086E+09	9,838505E+08	5,458501E+08
-884	1,921269E+08	1,749271E+07	0,000000E+00	0,000000E+00	1,749096E+07	1,921281E+08	5,458647E+08	9,838866E+08	1,320141E+09	1,320153E+09	9,839193E+08	5,458957E+08
-883	1,921505E+08	1,749693E+07	0,000000E+00	0,000000E+00	1,749285E+07	1,921355E+08	5,458795E+08	9,838953E+08	1,320136E+09	1,320158E+09	9,839350E+08	5,459030E+08
-882	1,921395E+08	1,749183E+07	0,000000E+00	0,000000E+00	1,749507E+07	1,921553E+08	5,459220E+08	9,839654E+08	1,320194E+09	1,320164E+09	9,838932E+08	5,458589E+08
-881	1,921189E+08	1,748588E+07	0,000000E+00	0,000000E+00	1,748482E+07	1,921168E+08	5,458678E+08	9,839152E+08	1,320188E+09	1,320209E+09	9,839676E+08	5,459190E+08
-880	1,921526E+08	1,749436E+07	0,000000E+00	0,000000E+00	1,749320E+07	1,921438E+08	5,459054E+08	9,839482E+08	1,320190E+09	1,320181E+09	9,839308E+08	5,458874E+08
-879	1,921268E+08	1,748761E+07	0,000000E+00	0,000000E+00	1,749034E+07	1,921410E+08	5,459047E+08	9,839542E+08	1,320195E+09	1,320167E+09	9,838969E+08	5,458681E+08
-878	1,921309E+08	1,749129E+07	0,000000E+00	0,000000E+00	1,748877E+07	1,921166E+08	5,458463E+08	9,838625E+08	1,320121E+09	1,320153E+09	9,839356E+08	5,459149E+08
-877	1,921620E+08	1,750005E+07	0,000000E+00	0,000000E+00	1,750098E+07	1,921606E+08	5,458993E+08	9,838920E+08	1,320092E+09	1,320079E+09	9,838539E+08	5,458544E+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												
-876	1,921294E+08	1,749469E+07	0,000000E+00	0,000000E+00	1,749711E+07	1,921440E+08	5,458682E+08	9,838480E+08	1,320051E+09	1,320045E+09	9,838394E+08	5,458699E+08
-875	1,921568E+08	1,750509E+07	0,000000E+00	0,000000E+00	1,750274E+07	1,921447E+08	5,458500E+08	9,837919E+08	1,319973E+09	1,319985E+09	9,838227E+08	5,458815E+08
-874	1,921669E+08	1,750805E+07	0,000000E+00	0,000000E+00	1,751173E+07	1,921786E+08	5,458906E+08	9,838287E+08	1,319974E+09	1,319933E+09	9,837353E+08	5,458154E+08
-873	1,921427E+08	1,750644E+07	0,000000E+00	0,000000E+00	1,750665E+07	1,921450E+08	5,458252E+08	9,837455E+08	1,319925E+09	1,319937E+09	9,837808E+08	5,458666E+08
-872	1,921811E+08	1,751751E+07	0,000000E+00	0,000000E+00	1,751506E+07	1,921670E+08	5,458424E+08	9,837383E+08	1,319891E+09	1,319898E+09	9,837546E+08	5,458497E+08
-871	1,921633E+08	1,751317E+07	0,000000E+00	0,000000E+00	1,751714E+07	1,921814E+08	5,458653E+08	9,837634E+08	1,319898E+09	1,319876E+09	9,837092E+08	5,458168E+08
-870	1,921549E+08	1,751234E+07	0,000000E+00	0,000000E+00	1,751033E+07	1,921465E+08	5,458074E+08	9,836927E+08	1,319857E+09	1,319895E+09	9,837758E+08	5,458783E+08
-869	1,921880E+08	1,751844E+07	0,000000E+00	0,000000E+00	1,751727E+07	1,921805E+08	5,458661E+08	9,837615E+08	1,319889E+09	1,319881E+09	9,837373E+08	5,458344E+08
-868	1,921518E+08	1,750932E+07	0,000000E+00	0,000000E+00	1,751033E+07	1,921621E+08	5,458546E+08	9,837809E+08	1,319942E+09	1,319925E+09	9,837542E+08	5,458435E+08
-867	1,921625E+08	1,751031E+07	0,000000E+00	0,000000E+00	1,750515E+07	1,921422E+08	5,458279E+08	9,837538E+08	1,319942E+09	1,319968E+09	9,838123E+08	5,458791E+08
-866	1,921726E+08	1,751072E+07	0,000000E+00	0,000000E+00	1,751134E+07	1,921764E+08	5,458898E+08	9,838394E+08	1,320007E+09	1,319988E+09	9,837829E+08	5,458268E+08
-865	1,921329E+08	1,749979E+07	0,000000E+00	0,000000E+00	1,749958E+07	1,921412E+08	5,458522E+08	9,838221E+08	1,320035E+09	1,320049E+09	9,838545E+08	5,458791E+08
-864	1,921584E+08	1,750388E+07	0,000000E+00	0,000000E+00	1,750118E+07	1,921470E+08	5,458676E+08	9,838441E+08	1,320053E+09	1,320063E+09	9,838698E+08	5,458859E+08
-863	1,921491E+08	1,749921E+07	0,000000E+00	0,000000E+00	1,750253E+07	1,921644E+08	5,459068E+08	9,839075E+08	1,320105E+09	1,320071E+09	9,838296E+08	5,458414E+08
-862	1,921283E+08	1,749356E+07	0,000000E+00	0,000000E+00	1,749226E+07	1,921233E+08	5,458427E+08	9,838370E+08	1,320075E+09	1,320099E+09	9,838961E+08	5,459017E+08
-861	1,921668E+08	1,750398E+07	0,000000E+00	0,000000E+00	1,750132E+07	1,921509E+08	5,458778E+08	9,838608E+08	1,320063E+09	1,320064E+09	9,838618E+08	5,458709E+08
-860	1,921408E+08	1,749810E+07	0,000000E+00	0,000000E+00	1,749998E+07	1,921513E+08	5,458757E+08	9,838586E+08	1,320059E+09	1,320041E+09	9,838214E+08	5,458517E+08
-859	1,921449E+08	1,750157E+07	0,000000E+00	0,000000E+00	1,749941E+07	1,921336E+08	5,458296E+08	9,837711E+08	1,319972E+09	1,320003E+09	9,838385E+08	5,458883E+08
-858	1,921744E+08	1,751035E+07	0,000000E+00	0,000000E+00	1,751186E+07	1,921770E+08	5,458848E+08	9,838114E+08	1,319954E+09	1,319934E+09	9,837544E+08	5,458246E+08
-857	1,921402E+08	1,750458E+07	0,000000E+00	0,000000E+00	1,750780E+07	1,921580E+08	5,458496E+08	9,837690E+08	1,319923E+09	1,319908E+09	9,837467E+08	5,458450E+08
-856	1,921695E+08	1,751527E+07	0,000000E+00	0,000000E+00	1,751308E+07	1,921563E+08	5,458272E+08	9,837192E+08	1,319868E+09	1,319871E+09	9,837405E+08	5,458571E+08
-855	1,921792E+08	1,751830E+07	0,000000E+00	0,000000E+00	1,752170E+07	1,921900E+08	5,458661E+08	9,837461E+08	1,319859E+09	1,319825E+09	9,836655E+08	5,457958E+08
-854	1,921535E+08	1,751594E+07	0,000000E+00	0,000000E+00	1,751642E+07	1,921569E+08	5,457994E+08	9,836523E+08	1,319789E+09	1,319813E+09	9,837080E+08	5,458514E+08
-853	1,921948E+08	1,752703E+07	0,000000E+00	0,000000E+00	1,752411E+07	1,921788E+08	5,458227E+08	9,836542E+08	1,319756E+09	1,319772E+09	9,836836E+08	5,458355E+08
-852	1,921766E+08	1,752258E+07	0,000000E+00	0,000000E+00	1,752590E+07	1,921915E+08	5,458454E+08	9,836886E+08	1,319779E+09	1,319756E+09	9,836358E+08	5,458022E+08
-851	1,921681E+08	1,752106E+07	0,000000E+00	0,000000E+00	1,751855E+07	1,921588E+08	5,457936E+08	9,836246E+08	1,319745E+09	1,319773E+09	9,836898E+08	5,458524E+08
-850	1,921983E+08	1,752717E+07	0,000000E+00	0,000000E+00	1,752536E+07	1,921899E+08	5,458492E+08	9,836971E+08	1,319790E+09	1,319777E+09	9,836603E+08	5,458079E+08
-849	1,921596E+08	1,751736E+07	0,000000E+00	0,000000E+00	1,751865E+07	1,921716E+08	5,458344E+08	9,837123E+08	1,319841E+09	1,319827E+09	9,836893E+08	5,458244E+08
-848	1,921705E+08	1,751789E+07	0,000000E+00	0,000000E+00	1,751360E+07	1,921530E+08	5,458104E+08	9,836937E+08	1,319856E+09	1,319879E+09	9,837524E+08	5,458614E+08
-847	1,921799E+08	1,751790E+07	0,000000E+00	0,000000E+00	1,751931E+07	1,921881E+08	5,458773E+08	9,837783E+08	1,319911E+09	1,319895E+09	9,837269E+08	5,458134E+08
-846	1,921408E+08	1,750646E+07	0,000000E+00	0,000000E+00	1,750673E+07	1,921496E+08	5,458347E+08	9,837544E+08	1,319926E+09	1,319940E+09	9,837883E+08	5,458661E+08
-845	1,921713E+08	1,751204E+07	0,000000E+00	0,000000E+00	1,750795E+07	1,921527E+08	5,458464E+08	9,837742E+08	1,319944E+09	1,319956E+09	9,838054E+08	5,458722E+08
-844	1,921634E+08	1,750874E+07	0,000000E+00	0,000000E+00	1,751014E+07	1,921695E+08	5,458782E+08	9,838275E+08	1,319995E+09	1,319965E+09	9,837623E+08	5,458267E+08
-843	1,921426E+08	1,750340E+07	0,000000E+00	0,000000E+00	1,750146E+07	1,921356E+08	5,458199E+08	9,837492E+08	1,319944E+09	1,319971E+09	9,838102E+08	5,458758E+08
-842	1,921781E+08	1,751409E+07	0,000000E+00	0,000000E+00	1,751176E+07	1,921663E+08	5,458595E+08	9,837759E+08	1,319929E+09	1,319932E+09	9,837738E+08	5,458443E+08
-841	1,921501E+08	1,750730E+07	0,000000E+00	0,000000E+00	1,751103E+07	1,921688E+08	5,458618E+08	9,837794E+08	1,319925E+09	1,319902E+09	9,837326E+08	5,458284E+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°
-840	1,921551E+08	1,751067E+07	0,000000E+00	0,000000E+00	1,751007E+07	1,921490E+08	5,458172E+08	9,837097E+08	1,319865E+09	1,319879E+09	9,837506E+08	5,458626E+08
-839	1,921846E+08	1,751962E+07	0,000000E+00	0,000000E+00	1,752163E+07	1,921902E+08	5,458694E+08	9,837437E+08	1,319847E+09	1,319821E+09	9,836765E+08	5,458025E+08
-838	1,921512E+08	1,751407E+07	0,000000E+00	0,000000E+00	1,751711E+07	1,921667E+08	5,458222E+08	9,836821E+08	1,319798E+09	1,319787E+09	9,836685E+08	5,458258E+08
-837	1,921845E+08	1,752593E+07	0,000000E+00	0,000000E+00	1,752241E+07	1,921648E+08	5,457968E+08	9,836238E+08	1,319733E+09	1,319752E+09	9,836716E+08	5,458421E+08
-836	1,921945E+08	1,752943E+07	0,000000E+00	0,000000E+00	1,753176E+07	1,922006E+08	5,458354E+08	9,836468E+08	1,319719E+09	1,319698E+09	9,835924E+08	5,457829E+08
-835	1,921685E+08	1,752610E+07	0,000000E+00	0,000000E+00	1,752668E+07	1,921727E+08	5,457807E+08	9,835603E+08	1,319640E+09	1,319664E+09	9,836143E+08	5,458282E+08
-834	1,922076E+08	1,753674E+07	0,000000E+00	0,000000E+00	1,753366E+07	1,921919E+08	5,458064E+08	9,835778E+08	1,319627E+09	1,319634E+09	9,835904E+08	5,458099E+08
-833	1,921873E+08	1,753146E+07	0,000000E+00	0,000000E+00	1,753493E+07	1,922023E+08	5,458266E+08	9,836178E+08	1,319665E+09	1,319634E+09	9,835523E+08	5,457793E+08
-832	1,921787E+08	1,752967E+07	0,000000E+00	0,000000E+00	1,752692E+07	1,921679E+08	5,457757E+08	9,835690E+08	1,319662E+09	1,319678E+09	9,836181E+08	5,458276E+08
-831	1,922058E+08	1,753526E+07	0,000000E+00	0,000000E+00	1,753348E+07	1,922004E+08	5,458326E+08	9,836355E+08	1,319703E+09	1,319694E+09	9,836046E+08	5,457901E+08
-830	1,921661E+08	1,752453E+07	0,000000E+00	0,000000E+00	1,752636E+07	1,921819E+08	5,458173E+08	9,836444E+08	1,319740E+09	1,319732E+09	9,836321E+08	5,458113E+08
-829	1,921800E+08	1,752516E+07	0,000000E+00	0,000000E+00	1,752087E+07	1,921629E+08	5,457968E+08	9,836309E+08	1,319753E+09	1,319784E+09	9,836995E+08	5,458516E+08
-828	1,921911E+08	1,752576E+07	0,000000E+00	0,000000E+00	1,752649E+07	1,921953E+08	5,458584E+08	9,837154E+08	1,319816E+09	1,319799E+09	9,836679E+08	5,458037E+08
-827	1,921534E+08	1,751443E+07	0,000000E+00	0,000000E+00	1,751434E+07	1,921599E+08	5,458175E+08	9,836849E+08	1,319818E+09	1,319826E+09	9,837098E+08	5,458447E+08
-826	1,921828E+08	1,752099E+07	0,000000E+00	0,000000E+00	1,751625E+07	1,921610E+08	5,458233E+08	9,836984E+08	1,319831E+09	1,319844E+09	9,837271E+08	5,458488E+08
-825	1,921732E+08	1,751756E+07	0,000000E+00	0,000000E+00	1,751960E+07	1,921805E+08	5,458536E+08	9,837431E+08	1,319871E+09	1,319845E+09	9,836859E+08	5,458064E+08
-824	1,921527E+08	1,751233E+07	0,000000E+00	0,000000E+00	1,751170E+07	1,921504E+08	5,458032E+08	9,836778E+08	1,319831E+09	1,319851E+09	9,837287E+08	5,458510E+08
-823	1,921859E+08	1,752258E+07	0,000000E+00	0,000000E+00	1,752171E+07	1,921820E+08	5,458474E+08	9,837043E+08	1,319808E+09	1,319807E+09	9,836928E+08	5,458225E+08
-822	1,921593E+08	1,751581E+07	0,000000E+00	0,000000E+00	1,752028E+07	1,921808E+08	5,458441E+08	9,837037E+08	1,319800E+09	1,319769E+09	9,836458E+08	5,458080E+08
-821	1,921692E+08	1,752064E+07	0,000000E+00	0,000000E+00	1,751896E+07	1,921579E+08	5,457935E+08	9,836286E+08	1,319742E+09	1,319757E+09	9,836727E+08	5,458441E+08
-820	1,922001E+08	1,753083E+07	0,000000E+00	0,000000E+00	1,753094E+07	1,921973E+08	5,458371E+08	9,836522E+08	1,319723E+09	1,319703E+09	9,836021E+08	5,457877E+08
-819	1,921680E+08	1,752555E+07	0,000000E+00	0,000000E+00	1,752783E+07	1,921804E+08	5,457947E+08	9,835820E+08	1,319652E+09	1,319649E+09	9,835803E+08	5,458030E+08
-818	1,921988E+08	1,753719E+07	0,000000E+00	0,000000E+00	1,753335E+07	1,921791E+08	5,457730E+08	9,835284E+08	1,319588E+09	1,319612E+09	9,835823E+08	5,458192E+08
-817	1,922063E+08	1,753936E+07	0,000000E+00	0,000000E+00	1,754264E+07	1,922158E+08	5,458164E+08	9,835614E+08	1,319580E+09	1,319557E+09	9,835036E+08	5,457620E+08
-816	1,921806E+08	1,753542E+07	0,000000E+00	0,000000E+00	1,753667E+07	1,921864E+08	5,457668E+08	9,834990E+08	1,319534E+09	1,319540E+09	9,835249E+08	5,458007E+08
-815	1,922162E+08	1,754518E+07	0,000000E+00	0,000000E+00	1,754245E+07	1,922038E+08	5,457919E+08	9,835157E+08	1,319529E+09	1,319529E+09	9,835147E+08	5,457866E+08
-814	1,921955E+08	1,753959E+07	0,000000E+00	0,000000E+00	1,754295E+07	1,922105E+08	5,458046E+08	9,835461E+08	1,319562E+09	1,319532E+09	9,834845E+08	5,457608E+08
-813	1,921893E+08	1,753815E+07	0,000000E+00	0,000000E+00	1,753475E+07	1,921764E+08	5,457533E+08	9,834941E+08	1,319557E+09	1,319587E+09	9,835647E+08	5,458143E+08
-812	1,922162E+08	1,754387E+07	0,000000E+00	0,000000E+00	1,754157E+07	1,922100E+08	5,458113E+08	9,835606E+08	1,319597E+09	1,319598E+09	9,835511E+08	5,457824E+08
-811	1,921782E+08	1,753253E+07	0,000000E+00	0,000000E+00	1,753457E+07	1,921949E+08	5,458032E+08	9,835727E+08	1,319623E+09	1,319615E+09	9,835582E+08	5,457938E+08
-810	1,921908E+08	1,753317E+07	0,000000E+00	0,000000E+00	1,752860E+07	1,921722E+08	5,457808E+08	9,835671E+08	1,319649E+09	1,319671E+09	9,836221E+08	5,458322E+08
-809	1,922014E+08	1,753359E+07	0,000000E+00	0,000000E+00	1,753432E+07	1,922029E+08	5,458367E+08	9,836467E+08	1,319713E+09	1,319690E+09	9,835937E+08	5,457849E+08
-808	1,921644E+08	1,752265E+07	0,000000E+00	0,000000E+00	1,752255E+07	1,921687E+08	5,457982E+08	9,836250E+08	1,319727E+09	1,319725E+09	9,836352E+08	5,458200E+08
-807	1,921905E+08	1,752913E+07	0,000000E+00	0,000000E+00	1,752516E+07	1,921737E+08	5,458064E+08	9,836283E+08	1,319727E+09	1,319742E+09	9,836599E+08	5,458291E+08
-806	1,921807E+08	1,752536E+07	0,000000E+00	0,000000E+00	1,752848E+07	1,921934E+08	5,458363E+08	9,836659E+08	1,319749E+09	1,319726E+09	9,836118E+08	5,457886E+08
-805	1,921635E+08	1,752087E+07	0,000000E+00	0,000000E+00	1,752056E+07	1,921629E+08	5,457884E+08	9,836053E+08	1,319713E+09	1,319736E+09	9,836573E+08	5,458338E+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	1,921981E+08	1,753205E+07	0,000000E+00	0,000000E+00	1,753049E+07	1,921919E+08	5,458267E+08	9,836310E+08	1,319697E+09	1,319692E+09	9,836173E+08	5,458070E+08
-803	1,921744E+08	1,752592E+07	0,000000E+00	0,000000E+00	1,752967E+07	1,921923E+08	5,458209E+08	9,836193E+08	1,319673E+09	1,319639E+09	9,835556E+08	5,457834E+08
-802	1,921836E+08	1,753183E+07	0,000000E+00	0,000000E+00	1,752900E+07	1,921676E+08	5,457646E+08	9,835369E+08	1,319611E+09	1,319628E+09	9,835857E+08	5,458215E+08
-801	1,922138E+08	1,754165E+07	0,000000E+00	0,000000E+00	1,754196E+07	1,922093E+08	5,458057E+08	9,835503E+08	1,319578E+09	1,319566E+09	9,835177E+08	5,457688E+08
-800	1,921820E+08	1,753625E+07	0,000000E+00	0,000000E+00	1,753939E+07	1,921964E+08	5,457745E+08	9,834974E+08	1,319517E+09	1,319510E+09	9,834894E+08	5,457782E+08
-799	1,922092E+08	1,754666E+07	0,000000E+00	0,000000E+00	1,754413E+07	1,921959E+08	5,457582E+08	9,834480E+08	1,319454E+09	1,319475E+09	9,834946E+08	5,457961E+08
-798	1,922162E+08	1,754816E+07	0,000000E+00	0,000000E+00	1,755196E+07	1,922276E+08	5,457972E+08	9,834830E+08	1,319452E+09	1,319422E+09	9,834143E+08	5,457394E+08
-797	1,921932E+08	1,754483E+07	0,000000E+00	0,000000E+00	1,754518E+07	1,921959E+08	5,457459E+08	9,834238E+08	1,319423E+09	1,319431E+09	9,834511E+08	5,457796E+08
-796	1,922280E+08	1,755487E+07	0,000000E+00	0,000000E+00	1,755071E+07	1,922115E+08	5,457668E+08	9,834405E+08	1,319427E+09	1,319431E+09	9,834498E+08	5,457711E+08
-795	1,922083E+08	1,754899E+07	0,000000E+00	0,000000E+00	1,755198E+07	1,922236E+08	5,457853E+08	9,834677E+08	1,319446E+09	1,319421E+09	9,834131E+08	5,457417E+08
-794	1,921999E+08	1,754699E+07	0,000000E+00	0,000000E+00	1,754356E+07	1,921891E+08	5,457387E+08	9,834253E+08	1,319448E+09	1,319479E+09	9,834952E+08	5,457978E+08
-793	1,922252E+08	1,755132E+07	0,000000E+00	0,000000E+00	1,755005E+07	1,922215E+08	5,457970E+08	9,834973E+08	1,319493E+09	1,319492E+09	9,834844E+08	5,457691E+08
-792	1,921891E+08	1,753993E+07	0,000000E+00	0,000000E+00	1,754235E+07	1,922048E+08	5,457919E+08	9,835259E+08	1,319542E+09	1,319519E+09	9,834870E+08	5,457719E+08
-791	1,921980E+08	1,754003E+07	0,000000E+00	0,000000E+00	1,753591E+07	1,921809E+08	5,457639E+08	9,835070E+08	1,319560E+09	1,319581E+09	9,835576E+08	5,458123E+08
-790	1,922090E+08	1,754084E+07	0,000000E+00	0,000000E+00	1,754140E+07	1,922086E+08	5,458109E+08	9,835713E+08	1,319607E+09	1,319590E+09	9,835284E+08	5,457677E+08
-789	1,921752E+08	1,753092E+07	0,000000E+00	0,000000E+00	1,753055E+07	1,921781E+08	5,457745E+08	9,835429E+08	1,319613E+09	1,319625E+09	9,835735E+08	5,458037E+08
-788	1,922010E+08	1,753798E+07	0,000000E+00	0,000000E+00	1,753377E+07	1,921847E+08	5,457857E+08	9,835481E+08	1,319607E+09	1,319628E+09	9,835906E+08	5,458160E+08
-787	1,921944E+08	1,753446E+07	0,000000E+00	0,000000E+00	1,753775E+07	1,922079E+08	5,458207E+08	9,835863E+08	1,319616E+09	1,319589E+09	9,835234E+08	5,457671E+08
-786	1,921770E+08	1,753087E+07	0,000000E+00	0,000000E+00	1,752979E+07	1,921737E+08	5,457686E+08	9,835293E+08	1,319590E+09	1,319603E+09	9,835661E+08	5,458105E+08
-785	1,922109E+08	1,754199E+07	0,000000E+00	0,000000E+00	1,754017E+07	1,922015E+08	5,458001E+08	9,835458E+08	1,319573E+09	1,319567E+09	9,835319E+08	5,457858E+08
-784	1,921890E+08	1,753670E+07	0,000000E+00	0,000000E+00	1,754023E+07	1,922042E+08	5,457972E+08	9,835401E+08	1,319555E+09	1,319518E+09	9,834688E+08	5,457557E+08
-783	1,921939E+08	1,754200E+07	0,000000E+00	0,000000E+00	1,754034E+07	1,921841E+08	5,457436E+08	9,834483E+08	1,319479E+09	1,319502E+09	9,835049E+08	5,457990E+08
-782	1,922236E+08	1,755101E+07	0,000000E+00	0,000000E+00	1,755260E+07	1,922244E+08	5,457851E+08	9,834599E+08	1,319435E+09	1,319427E+09	9,834314E+08	5,457488E+08
-781	1,921949E+08	1,754591E+07	0,000000E+00	0,000000E+00	1,754973E+07	1,922114E+08	5,457577E+08	9,834154E+08	1,319386E+09	1,319381E+09	9,834070E+08	5,457575E+08
-780	1,922220E+08	1,755652E+07	0,000000E+00	0,000000E+00	1,755337E+07	1,922073E+08	5,457384E+08	9,833721E+08	1,319337E+09	1,319353E+09	9,834129E+08	5,457774E+08
-779	1,922308E+08	1,755813E+07	0,000000E+00	0,000000E+00	1,756112E+07	1,922391E+08	5,457755E+08	9,834010E+08	1,319328E+09	1,319296E+09	9,833279E+08	5,457148E+08
-778	1,922061E+08	1,755518E+07	0,000000E+00	0,000000E+00	1,755426E+07	1,922053E+08	5,457220E+08	9,833447E+08	1,319309E+09	1,319318E+09	9,833740E+08	5,457582E+08
-777	1,922383E+08	1,756394E+07	0,000000E+00	0,000000E+00	1,756017E+07	1,922230E+08	5,457433E+08	9,833588E+08	1,319310E+09	1,319322E+09	9,833815E+08	5,457553E+08
-776	1,922197E+08	1,755769E+07	0,000000E+00	0,000000E+00	1,756121E+07	1,922367E+08	5,457725E+08	9,834059E+08	1,319343E+09	1,319315E+09	9,833419E+08	5,457212E+08
-775	1,922076E+08	1,755419E+07	0,000000E+00	0,000000E+00	1,755196E+07	1,922021E+08	5,457280E+08	9,833664E+08	1,319349E+09	1,319376E+09	9,834284E+08	5,457805E+08
-774	1,922332E+08	1,755808E+07	0,000000E+00	0,000000E+00	1,755681E+07	1,922276E+08	5,457765E+08	9,834315E+08	1,319392E+09	1,319387E+09	9,834150E+08	5,457526E+08
-773	1,922005E+08	1,754765E+07	0,000000E+00	0,000000E+00	1,754905E+07	1,922103E+08	5,457681E+08	9,834540E+08	1,319445E+09	1,319431E+09	9,834280E+08	5,457552E+08
-772	1,922092E+08	1,754854E+07	0,000000E+00	0,000000E+00	1,754308E+07	1,921873E+08	5,457387E+08	9,834316E+08	1,319459E+09	1,319489E+09	9,834991E+08	5,457986E+08
-771	1,922213E+08	1,754953E+07	0,000000E+00	0,000000E+00	1,754978E+07	1,922207E+08	5,457904E+08	9,834887E+08	1,319485E+09	1,319475E+09	9,834555E+08	5,457484E+08
-770	1,921864E+08	1,753991E+07	0,000000E+00	0,000000E+00	1,753947E+07	1,921916E+08	5,457611E+08	9,834724E+08	1,319496E+09	1,319504E+09	9,834946E+08	5,457836E+08
-769	1,922104E+08	1,754612E+07	0,000000E+00	0,000000E+00	1,754313E+07	1,921979E+08	5,457711E+08	9,834800E+08	1,319495E+09	1,319508E+09	9,835099E+08	5,457959E+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	1,922064E+08	1,754335E+07	0,000000E+00	0,000000E+00	1,754700E+07	1,922205E+08	5,458092E+08	9,835301E+08	1,319517E+09	1,319475E+09	9,834379E+08	5,457394E+08
-767	1,921856E+08	1,753964E+07	0,000000E+00	0,000000E+00	1,753950E+07	1,921864E+08	5,457505E+08	9,834574E+08	1,319482E+09	1,319493E+09	9,834887E+08	5,457867E+08
-766	1,922204E+08	1,755103E+07	0,000000E+00	0,000000E+00	1,754958E+07	1,922108E+08	5,457711E+08	9,834547E+08	1,319444E+09	1,319445E+09	9,834544E+08	5,457662E+08
-765	1,922024E+08	1,754683E+07	0,000000E+00	0,000000E+00	1,755074E+07	1,922176E+08	5,457702E+08	9,834403E+08	1,319416E+09	1,319397E+09	9,833956E+08	5,457381E+08
-764	1,922075E+08	1,755251E+07	0,000000E+00	0,000000E+00	1,755079E+07	1,921983E+08	5,457210E+08	9,833543E+08	1,319336E+09	1,319366E+09	9,834228E+08	5,457832E+08
-763	1,922394E+08	1,756136E+07	0,000000E+00	0,000000E+00	1,756283E+07	1,922389E+08	5,457644E+08	9,833682E+08	1,319285E+09	1,319273E+09	9,833320E+08	5,457247E+08
-762	1,922106E+08	1,755704E+07	0,000000E+00	0,000000E+00	1,755955E+07	1,922227E+08	5,457362E+08	9,833337E+08	1,319255E+09	1,319238E+09	9,833082E+08	5,457316E+08
-761	1,922350E+08	1,756676E+07	0,000000E+00	0,000000E+00	1,756304E+07	1,922172E+08	5,457127E+08	9,832888E+08	1,319215E+09	1,319229E+09	9,833266E+08	5,457537E+08
-760	1,922447E+08	1,756873E+07	0,000000E+00	0,000000E+00	1,757104E+07	1,922513E+08	5,457573E+08	9,833313E+08	1,319220E+09	1,319185E+09	9,832495E+08	5,456888E+08
-759	1,922148E+08	1,756428E+07	0,000000E+00	0,000000E+00	1,756433E+07	1,922206E+08	5,457067E+08	9,832720E+08	1,319199E+09	1,319213E+09	9,833070E+08	5,457384E+08
-758	1,922455E+08	1,757158E+07	0,000000E+00	0,000000E+00	1,756872E+07	1,922345E+08	5,457266E+08	9,832876E+08	1,319198E+09	1,319213E+09	9,833152E+08	5,457407E+08
-757	1,922309E+08	1,756555E+07	0,000000E+00	0,000000E+00	1,756926E+07	1,922470E+08	5,457555E+08	9,833388E+08	1,319245E+09	1,319222E+09	9,832826E+08	5,457065E+08
-756	1,922185E+08	1,756200E+07	0,000000E+00	0,000000E+00	1,755886E+07	1,922089E+08	5,457078E+08	9,833010E+08	1,319255E+09	1,319283E+09	9,833673E+08	5,457674E+08
-755	1,922459E+08	1,756622E+07	0,000000E+00	0,000000E+00	1,756384E+07	1,922339E+08	5,457516E+08	9,833535E+08	1,319280E+09	1,319280E+09	9,833455E+08	5,457340E+08
-754	1,922126E+08	1,755665E+07	0,000000E+00	0,000000E+00	1,755678E+07	1,922178E+08	5,457438E+08	9,833765E+08	1,319332E+09	1,319321E+09	9,833574E+08	5,457366E+08
-753	1,922184E+08	1,755664E+07	0,000000E+00	0,000000E+00	1,755199E+07	1,921995E+08	5,457190E+08	9,833532E+08	1,319341E+09	1,319375E+09	9,834280E+08	5,457805E+08
-752	1,922318E+08	1,755790E+07	0,000000E+00	0,000000E+00	1,755903E+07	1,922361E+08	5,457841E+08	9,834303E+08	1,319375E+09	1,319358E+09	9,833757E+08	5,457237E+08
-751	1,921934E+08	1,754742E+07	0,000000E+00	0,000000E+00	1,754874E+07	1,922072E+08	5,457541E+08	9,834157E+08	1,319393E+09	1,319391E+09	9,834160E+08	5,457596E+08
-750	1,922175E+08	1,755357E+07	0,000000E+00	0,000000E+00	1,755123E+07	1,922069E+08	5,457522E+08	9,834125E+08	1,319389E+09	1,319395E+09	9,834317E+08	5,457744E+08
-749	1,922183E+08	1,755235E+07	0,000000E+00	0,000000E+00	1,755562E+07	1,922291E+08	5,457836E+08	9,834495E+08	1,319410E+09	1,319377E+09	9,833707E+08	5,457200E+08
-748	1,921985E+08	1,754976E+07	0,000000E+00	0,000000E+00	1,754887E+07	1,921965E+08	5,457236E+08	9,833694E+08	1,319360E+09	1,319382E+09	9,834201E+08	5,457723E+08
-747	1,922358E+08	1,756147E+07	0,000000E+00	0,000000E+00	1,755971E+07	1,922239E+08	5,457449E+08	9,833546E+08	1,319295E+09	1,319306E+09	9,833710E+08	5,457475E+08
-746	1,922178E+08	1,755788E+07	0,000000E+00	0,000000E+00	1,756132E+07	1,922320E+08	5,457504E+08	9,833517E+08	1,319272E+09	1,319249E+09	9,833039E+08	5,457176E+08
-745	1,922212E+08	1,756274E+07	0,000000E+00	0,000000E+00	1,756146E+07	1,922125E+08	5,457015E+08	9,832707E+08	1,319200E+09	1,319224E+09	9,833280E+08	5,457593E+08
-744	1,922539E+08	1,757193E+07	0,000000E+00	0,000000E+00	1,757287E+07	1,922519E+08	5,457491E+08	9,832978E+08	1,319165E+09	1,319140E+09	9,832351E+08	5,456932E+08
-743	1,922205E+08	1,756701E+07	0,000000E+00	0,000000E+00	1,756990E+07	1,922360E+08	5,457172E+08	9,832580E+08	1,319140E+09	1,319120E+09	9,832252E+08	5,457041E+08
-742	1,922434E+08	1,757585E+07	0,000000E+00	0,000000E+00	1,757252E+07	1,922273E+08	5,456860E+08	9,832026E+08	1,319093E+09	1,319112E+09	9,832510E+08	5,457325E+08
-741	1,922557E+08	1,757817E+07	0,000000E+00	0,000000E+00	1,758095E+07	1,922644E+08	5,457340E+08	9,832438E+08	1,319100E+09	1,319082E+09	9,831875E+08	5,456742E+08
-740	1,922266E+08	1,757340E+07	0,000000E+00	0,000000E+00	1,757338E+07	1,922330E+08	5,456894E+08	9,831961E+08	1,319081E+09	1,319103E+09	9,832434E+08	5,457277E+08
-739	1,922592E+08	1,758005E+07	0,000000E+00	0,000000E+00	1,757663E+07	1,922435E+08	5,457057E+08	9,832099E+08	1,319076E+09	1,319090E+09	9,832389E+08	5,457239E+08
-738	1,922448E+08	1,757476E+07	0,000000E+00	0,000000E+00	1,757672E+07	1,922535E+08	5,457331E+08	9,832672E+08	1,319135E+09	1,319107E+09	9,832064E+08	5,456881E+08
-737	1,922296E+08	1,757032E+07	0,000000E+00	0,000000E+00	1,756667E+07	1,922164E+08	5,456838E+08	9,832264E+08	1,319148E+09	1,319177E+09	9,832954E+08	5,457470E+08
-736	1,922568E+08	1,757484E+07	0,000000E+00	0,000000E+00	1,757223E+07	1,922454E+08	5,457380E+08	9,832913E+08	1,319178E+09	1,319175E+09	9,832729E+08	5,457088E+08
-735	1,922183E+08	1,756404E+07	0,000000E+00	0,000000E+00	1,756606E+07	1,922343E+08	5,457368E+08	9,833177E+08	1,319232E+09	1,319218E+09	9,832894E+08	5,457145E+08
-734	1,922227E+08	1,756298E+07	0,000000E+00	0,000000E+00	1,756023E+07	1,922124E+08	5,457098E+08	9,832963E+08	1,319240E+09	1,319268E+09	9,833577E+08	5,457611E+08
-733	1,922404E+08	1,756519E+07	0,000000E+00	0,000000E+00	1,756717E+07	1,922476E+08	5,457711E+08	9,833714E+08	1,319286E+09	1,319268E+09	9,833138E+08	5,457071E+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°
-732	1,922043E+08	1,755568E+07	0,000000E+00	0,000000E+00	1,755632E+07	1,922151E+08	5,457353E+08	9,833509E+08	1,319299E+09	1,319297E+09	9,833531E+08	5,457449E+08
-731	1,922309E+08	1,756270E+07	0,000000E+00	0,000000E+00	1,755915E+07	1,922126E+08	5,457222E+08	9,833248E+08	1,319267E+09	1,319281E+09	9,833593E+08	5,457571E+08
-730	1,922336E+08	1,756314E+07	0,000000E+00	0,000000E+00	1,756478E+07	1,922373E+08	5,457522E+08	9,833543E+08	1,319275E+09	1,319248E+09	9,832931E+08	5,457034E+08
-729	1,922121E+08	1,756015E+07	0,000000E+00	0,000000E+00	1,755963E+07	1,922101E+08	5,456970E+08	9,832697E+08	1,319211E+09	1,319241E+09	9,833344E+08	5,457540E+08
-728	1,922513E+08	1,757229E+07	0,000000E+00	0,000000E+00	1,757061E+07	1,922401E+08	5,457310E+08	9,832729E+08	1,319151E+09	1,319155E+09	9,832726E+08	5,457203E+08
-727	1,922292E+08	1,756793E+07	0,000000E+00	0,000000E+00	1,757251E+07	1,922487E+08	5,457358E+08	9,832732E+08	1,319136E+09	1,319103E+09	9,832044E+08	5,456878E+08
-726	1,922311E+08	1,757234E+07	0,000000E+00	0,000000E+00	1,757126E+07	1,922234E+08	5,456783E+08	9,831878E+08	1,319071E+09	1,319087E+09	9,832327E+08	5,457306E+08
-725	1,922660E+08	1,758235E+07	0,000000E+00	0,000000E+00	1,758300E+07	1,922634E+08	5,457227E+08	9,832104E+08	1,319048E+09	1,319031E+09	9,831592E+08	5,456702E+08
-724	1,922329E+08	1,757764E+07	0,000000E+00	0,000000E+00	1,757999E+07	1,922485E+08	5,456940E+08	9,831739E+08	1,319020E+09	1,319010E+09	9,831567E+08	5,456880E+08
-723	1,922564E+08	1,758562E+07	0,000000E+00	0,000000E+00	1,758228E+07	1,922403E+08	5,456641E+08	9,831145E+08	1,318960E+09	1,318987E+09	9,831769E+08	5,457166E+08
-722	1,922695E+08	1,758813E+07	0,000000E+00	0,000000E+00	1,759032E+07	1,922764E+08	5,457164E+08	9,831687E+08	1,318977E+09	1,318955E+09	9,831119E+08	5,456600E+08
-721	1,922388E+08	1,758211E+07	0,000000E+00	0,000000E+00	1,758233E+07	1,922443E+08	5,456716E+08	9,831260E+08	1,318969E+09	1,318986E+09	9,831669E+08	5,457101E+08
-720	1,922718E+08	1,758873E+07	0,000000E+00	0,000000E+00	1,758463E+07	1,922530E+08	5,456917E+08	9,831492E+08	1,318974E+09	1,318981E+09	9,831605E+08	5,456984E+08
-719	1,922523E+08	1,758265E+07	0,000000E+00	0,000000E+00	1,758519E+07	1,922639E+08	5,457159E+08	9,832017E+08	1,319036E+09	1,319006E+09	9,831365E+08	5,456639E+08
-718	1,922350E+08	1,757729E+07	0,000000E+00	0,000000E+00	1,757451E+07	1,922259E+08	5,456632E+08	9,831554E+08	1,319043E+09	1,319075E+09	9,832281E+08	5,457265E+08
-717	1,922640E+08	1,758224E+07	0,000000E+00	0,000000E+00	1,758067E+07	1,922580E+08	5,457219E+08	9,832225E+08	1,319080E+09	1,319086E+09	9,832154E+08	5,456939E+08
-716	1,922276E+08	1,757161E+07	0,000000E+00	0,000000E+00	1,757384E+07	1,922460E+08	5,457266E+08	9,832606E+08	1,319135E+09	1,319119E+09	9,832286E+08	5,457025E+08
-715	1,922343E+08	1,757066E+07	0,000000E+00	0,000000E+00	1,756740E+07	1,922198E+08	5,456909E+08	9,832291E+08	1,319133E+09	1,319157E+09	9,832859E+08	5,457449E+08
-714	1,922538E+08	1,757450E+07	0,000000E+00	0,000000E+00	1,757445E+07	1,922527E+08	5,457464E+08	9,832992E+08	1,319179E+09	1,319156E+09	9,832428E+08	5,456920E+08
-713	1,922176E+08	1,756523E+07	0,000000E+00	0,000000E+00	1,756506E+07	1,922230E+08	5,457069E+08	9,832662E+08	1,319181E+09	1,319185E+09	9,832809E+08	5,457274E+08
-712	1,922451E+08	1,757306E+07	0,000000E+00	0,000000E+00	1,756887E+07	1,922246E+08	5,457010E+08	9,832405E+08	1,319137E+09	1,319155E+09	9,832776E+08	5,457330E+08
-711	1,922435E+08	1,757276E+07	0,000000E+00	0,000000E+00	1,757588E+07	1,922546E+08	5,457367E+08	9,832716E+08	1,319141E+09	1,319114E+09	9,832073E+08	5,456792E+08
-710	1,922210E+08	1,756901E+07	0,000000E+00	0,000000E+00	1,757018E+07	1,922255E+08	5,456807E+08	9,831905E+08	1,319077E+09	1,319097E+09	9,832395E+08	5,457279E+08
-709	1,922622E+08	1,758172E+07	0,000000E+00	0,000000E+00	1,758098E+07	1,922544E+08	5,457119E+08	9,831946E+08	1,319032E+09	1,319032E+09	9,831862E+08	5,456962E+08
-708	1,922416E+08	1,757808E+07	0,000000E+00	0,000000E+00	1,758228E+07	1,922607E+08	5,457160E+08	9,831965E+08	1,319019E+09	1,318983E+09	9,831230E+08	5,456664E+08
-707	1,922445E+08	1,758266E+07	0,000000E+00	0,000000E+00	1,758080E+07	1,922323E+08	5,456485E+08	9,830941E+08	1,318937E+09	1,318959E+09	9,831505E+08	5,457088E+08
-706	1,922800E+08	1,759359E+07	0,000000E+00	0,000000E+00	1,759312E+07	1,922744E+08	5,456946E+08	9,831162E+08	1,318911E+09	1,318899E+09	9,830817E+08	5,456546E+08
-705	1,922466E+08	1,758816E+07	0,000000E+00	0,000000E+00	1,759089E+07	1,922630E+08	5,456712E+08	9,830828E+08	1,318883E+09	1,318879E+09	9,830774E+08	5,456719E+08
-704	1,922709E+08	1,759562E+07	0,000000E+00	0,000000E+00	1,759221E+07	1,922547E+08	5,456519E+08	9,830424E+08	1,318832E+09	1,318853E+09	9,830891E+08	5,456930E+08
-703	1,922798E+08	1,759702E+07	0,000000E+00	0,000000E+00	1,759989E+07	1,922893E+08	5,457016E+08	9,831015E+08	1,318864E+09	1,318832E+09	9,830277E+08	5,456356E+08
-702	1,922475E+08	1,759005E+07	0,000000E+00	0,000000E+00	1,759033E+07	1,922522E+08	5,456494E+08	9,830552E+08	1,318863E+09	1,318873E+09	9,830869E+08	5,456861E+08
-701	1,922811E+08	1,759701E+07	0,000000E+00	0,000000E+00	1,759282E+07	1,922618E+08	5,456671E+08	9,830753E+08	1,318878E+09	1,318892E+09	9,830994E+08	5,456805E+08
-700	1,922621E+08	1,759100E+07	0,000000E+00	0,000000E+00	1,759323E+07	1,922749E+08	5,456987E+08	9,831340E+08	1,318938E+09	1,318915E+09	9,830808E+08	5,456509E+08
-699	1,922448E+08	1,758490E+07	0,000000E+00	0,000000E+00	1,758216E+07	1,922363E+08	5,456471E+08	9,830862E+08	1,318935E+09	1,318971E+09	9,831646E+08	5,457120E+08
-698	1,922748E+08	1,759054E+07	0,000000E+00	0,000000E+00	1,758831E+07	1,922678E+08	5,457081E+08	9,831629E+08	1,318980E+09	1,318978E+09	9,831497E+08	5,456819E+08
-697	1,922392E+08	1,757971E+07	0,000000E+00	0,000000E+00	1,758162E+07	1,922550E+08	5,457087E+08	9,831978E+08	1,319039E+09	1,319018E+09	9,831593E+08	5,456863E+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	1,922469E+08	1,757943E+07	0,000000E+00	0,000000E+00	1,757520E+07	1,922284E+08	5,456746E+08	9,831649E+08	1,319031E+09	1,319050E+09	9,832107E+08	5,457218E+08
-695	1,922628E+08	1,758316E+07	0,000000E+00	0,000000E+00	1,758358E+07	1,922627E+08	5,457231E+08	9,832213E+08	1,319065E+09	1,319044E+09	9,831681E+08	5,456692E+08
-694	1,922255E+08	1,757360E+07	0,000000E+00	0,000000E+00	1,757468E+07	1,922349E+08	5,456816E+08	9,831771E+08	1,319050E+09	1,319058E+09	9,832007E+08	5,457060E+08
-693	1,922553E+08	1,758217E+07	0,000000E+00	0,000000E+00	1,757946E+07	1,922403E+08	5,456800E+08	9,831527E+08	1,319008E+09	1,319033E+09	9,832007E+08	5,457149E+08
-692	1,922557E+08	1,758214E+07	0,000000E+00	0,000000E+00	1,758580E+07	1,922693E+08	5,457218E+08	9,831952E+08	1,319012E+09	1,318981E+09	9,831229E+08	5,456603E+08
-691	1,922347E+08	1,757874E+07	0,000000E+00	0,000000E+00	1,757946E+07	1,922357E+08	5,456577E+08	9,831068E+08	1,318944E+09	1,318956E+09	9,831448E+08	5,457033E+08
-690	1,922766E+08	1,759277E+07	0,000000E+00	0,000000E+00	1,759030E+07	1,922630E+08	5,456849E+08	9,831090E+08	1,318904E+09	1,318896E+09	9,830964E+08	5,456743E+08
-689	1,922560E+08	1,758932E+07	0,000000E+00	0,000000E+00	1,759282E+07	1,922722E+08	5,456882E+08	9,831055E+08	1,318889E+09	1,318856E+09	9,830390E+08	5,456448E+08
-688	1,922590E+08	1,759395E+07	0,000000E+00	0,000000E+00	1,759174E+07	1,922479E+08	5,456313E+08	9,830096E+08	1,318803E+09	1,318827E+09	9,830648E+08	5,456844E+08
-687	1,922901E+08	1,760350E+07	0,000000E+00	0,000000E+00	1,760452E+07	1,922921E+08	5,456806E+08	9,830379E+08	1,318782E+09	1,318770E+09	9,829987E+08	5,456328E+08
-686	1,922565E+08	1,759702E+07	0,000000E+00	0,000000E+00	1,760106E+07	1,922769E+08	5,456543E+08	9,830083E+08	1,318762E+09	1,318752E+09	9,829932E+08	5,456504E+08
-685	1,922821E+08	1,760439E+07	0,000000E+00	0,000000E+00	1,760141E+07	1,922659E+08	5,456297E+08	9,829694E+08	1,318731E+09	1,318752E+09	9,830169E+08	5,456737E+08
-684	1,922913E+08	1,760589E+07	0,000000E+00	0,000000E+00	1,760781E+07	1,922973E+08	5,456798E+08	9,830309E+08	1,318763E+09	1,318733E+09	9,829615E+08	5,456188E+08
-683	1,922592E+08	1,759863E+07	0,000000E+00	0,000000E+00	1,759785E+07	1,922580E+08	5,456208E+08	9,829721E+08	1,318748E+09	1,318764E+09	9,830179E+08	5,456680E+08
-682	1,922921E+08	1,760600E+07	0,000000E+00	0,000000E+00	1,760080E+07	1,922709E+08	5,456441E+08	9,829964E+08	1,318761E+09	1,318780E+09	9,830343E+08	5,456685E+08
-681	1,922735E+08	1,759955E+07	0,000000E+00	0,000000E+00	1,760197E+07	1,922877E+08	5,456835E+08	9,830630E+08	1,318825E+09	1,318806E+09	9,830142E+08	5,456374E+08
-680	1,922569E+08	1,759315E+07	0,000000E+00	0,000000E+00	1,759028E+07	1,922490E+08	5,456400E+08	9,830289E+08	1,318830E+09	1,318856E+09	9,830871E+08	5,456896E+08
-679	1,922826E+08	1,759818E+07	0,000000E+00	0,000000E+00	1,759661E+07	1,922787E+08	5,456946E+08	9,831048E+08	1,318885E+09	1,318873E+09	9,830743E+08	5,456591E+08
-678	1,922473E+08	1,758723E+07	0,000000E+00	0,000000E+00	1,758938E+07	1,922626E+08	5,456861E+08	9,831285E+08	1,318940E+09	1,318915E+09	9,830851E+08	5,456635E+08
-677	1,922557E+08	1,758762E+07	0,000000E+00	0,000000E+00	1,758395E+07	1,922379E+08	5,456477E+08	9,830869E+08	1,318932E+09	1,318958E+09	9,831475E+08	5,457044E+08
-676	1,922731E+08	1,759178E+07	0,000000E+00	0,000000E+00	1,759247E+07	1,922748E+08	5,457041E+08	9,831446E+08	1,318951E+09	1,318937E+09	9,831028E+08	5,456553E+08
-675	1,922372E+08	1,758217E+07	0,000000E+00	0,000000E+00	1,758374E+07	1,922469E+08	5,456619E+08	9,830948E+08	1,318918E+09	1,318927E+09	9,831194E+08	5,456877E+08
-674	1,922684E+08	1,759188E+07	0,000000E+00	0,000000E+00	1,758874E+07	1,922525E+08	5,456622E+08	9,830765E+08	1,318880E+09	1,318895E+09	9,831146E+08	5,456972E+08
-673	1,922702E+08	1,759228E+07	0,000000E+00	0,000000E+00	1,759553E+07	1,922813E+08	5,457007E+08	9,831150E+08	1,318889E+09	1,318852E+09	9,830342E+08	5,456376E+08
-672	1,922495E+08	1,758968E+07	0,000000E+00	0,000000E+00	1,758936E+07	1,922477E+08	5,456383E+08	9,830261E+08	1,318817E+09	1,318825E+09	9,830511E+08	5,456732E+08
-671	1,922866E+08	1,760324E+07	0,000000E+00	0,000000E+00	1,760131E+07	1,922765E+08	5,456602E+08	9,830206E+08	1,318774E+09	1,318769E+09	9,830088E+08	5,456475E+08
-670	1,922664E+08	1,759944E+07	0,000000E+00	0,000000E+00	1,760403E+07	1,922867E+08	5,456626E+08	9,830108E+08	1,318751E+09	1,318723E+09	9,829529E+08	5,456223E+08
-669	1,922708E+08	1,760403E+07	0,000000E+00	0,000000E+00	1,760312E+07	1,922641E+08	5,456095E+08	9,829226E+08	1,318676E+09	1,318704E+09	9,829873E+08	5,456677E+08
-668	1,923037E+08	1,761328E+07	0,000000E+00	0,000000E+00	1,761427E+07	1,923050E+08	5,456629E+08	9,829616E+08	1,318659E+09	1,318644E+09	9,829200E+08	5,456170E+08
-667	1,922712E+08	1,760664E+07	0,000000E+00	0,000000E+00	1,760966E+07	1,922846E+08	5,456274E+08	9,829231E+08	1,318635E+09	1,318624E+09	9,829096E+08	5,456304E+08
-666	1,922967E+08	1,761461E+07	0,000000E+00	0,000000E+00	1,760965E+07	1,922731E+08	5,456018E+08	9,828842E+08	1,318608E+09	1,318631E+09	9,829408E+08	5,456563E+08
-665	1,923048E+08	1,761582E+07	0,000000E+00	0,000000E+00	1,761673E+07	1,923070E+08	5,456535E+08	9,829453E+08	1,318644E+09	1,318622E+09	9,828903E+08	5,456006E+08
-664	1,922714E+08	1,760802E+07	0,000000E+00	0,000000E+00	1,760694E+07	1,922728E+08	5,456098E+08	9,829020E+08	1,318632E+09	1,318649E+09	9,829415E+08	5,456443E+08
-663	1,922985E+08	1,761367E+07	0,000000E+00	0,000000E+00	1,761022E+07	1,922869E+08	5,456373E+08	9,829393E+08	1,318660E+09	1,318670E+09	9,829592E+08	5,456459E+08
-662	1,922802E+08	1,760639E+07	0,000000E+00	0,000000E+00	1,761022E+07	1,922999E+08	5,456730E+08	9,830092E+08	1,318734E+09	1,318703E+09	9,829417E+08	5,456166E+08
-661	1,922648E+08	1,760016E+07	0,000000E+00	0,000000E+00	1,759810E+07	1,922589E+08	5,456235E+08	9,829745E+08	1,318755E+09	1,318776E+09	9,830276E+08	5,456726E+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	1,922917E+08	1,760555E+07	0,000000E+00	0,000000E+00	1,760346E+07	1,922848E+08	5,456742E+08	9,830417E+08	1,318797E+09	1,318789E+09	9,830187E+08	5,456454E+08
-659	1,922582E+08	1,759512E+07	0,000000E+00	0,000000E+00	1,759657E+07	1,922675E+08	5,456558E+08	9,830432E+08	1,318825E+09	1,318811E+09	9,830209E+08	5,456483E+08
-658	1,922677E+08	1,759667E+07	0,000000E+00	0,000000E+00	1,759242E+07	1,922479E+08	5,456222E+08	9,829979E+08	1,318801E+09	1,318836E+09	9,830782E+08	5,456922E+08
-657	1,922867E+08	1,760116E+07	0,000000E+00	0,000000E+00	1,760184E+07	1,922876E+08	5,456842E+08	9,830606E+08	1,318819E+09	1,318807E+09	9,830225E+08	5,456386E+08
-656	1,922521E+08	1,759205E+07	0,000000E+00	0,000000E+00	1,759332E+07	1,922616E+08	5,456506E+08	9,830221E+08	1,318788E+09	1,318785E+09	9,830220E+08	5,456591E+08
-655	1,922786E+08	1,760151E+07	0,000000E+00	0,000000E+00	1,759885E+07	1,922658E+08	5,456449E+08	9,830028E+08	1,318760E+09	1,318763E+09	9,830170E+08	5,456662E+08
-654	1,922808E+08	1,760210E+07	0,000000E+00	0,000000E+00	1,760561E+07	1,922929E+08	5,456760E+08	9,830302E+08	1,318765E+09	1,318726E+09	9,829445E+08	5,456097E+08
-653	1,922607E+08	1,760014E+07	0,000000E+00	0,000000E+00	1,760049E+07	1,922616E+08	5,456117E+08	9,829386E+08	1,318700E+09	1,318714E+09	9,829759E+08	5,456519E+08
-652	1,922981E+08	1,761329E+07	0,000000E+00	0,000000E+00	1,761192E+07	1,922918E+08	5,456413E+08	9,829366E+08	1,318648E+09	1,318650E+09	9,829361E+08	5,456322E+08
-651	1,922803E+08	1,760938E+07	0,000000E+00	0,000000E+00	1,761428E+07	1,922994E+08	5,456399E+08	9,829220E+08	1,318614E+09	1,318589E+09	9,828707E+08	5,456050E+08
-650	1,922860E+08	1,761445E+07	0,000000E+00	0,000000E+00	1,761287E+07	1,922760E+08	5,455873E+08	9,828382E+08	1,318542E+09	1,318569E+09	9,829050E+08	5,456522E+08
-649	1,923195E+08	1,762371E+07	0,000000E+00	0,000000E+00	1,762357E+07	1,923147E+08	5,456377E+08	9,828767E+08	1,318534E+09	1,318519E+09	9,828376E+08	5,455975E+08
-648	1,922865E+08	1,761717E+07	0,000000E+00	0,000000E+00	1,761893E+07	1,922955E+08	5,456062E+08	9,828394E+08	1,318505E+09	1,318494E+09	9,828209E+08	5,456019E+08
-647	1,923054E+08	1,762389E+07	0,000000E+00	0,000000E+00	1,761950E+07	1,922861E+08	5,455808E+08	9,828030E+08	1,318486E+09	1,318509E+09	9,828577E+08	5,456295E+08
-646	1,923128E+08	1,762420E+07	0,000000E+00	0,000000E+00	1,762637E+07	1,923215E+08	5,456366E+08	9,828680E+08	1,318525E+09	1,318506E+09	9,828145E+08	5,455791E+08
-645	1,922797E+08	1,761580E+07	0,000000E+00	0,000000E+00	1,761615E+07	1,922872E+08	5,455977E+08	9,828426E+08	1,318539E+09	1,318552E+09	9,828761E+08	5,456270E+08
-644	1,923070E+08	1,762077E+07	0,000000E+00	0,000000E+00	1,761759E+07	1,922971E+08	5,456274E+08	9,828894E+08	1,318574E+09	1,318578E+09	9,828974E+08	5,456315E+08
-643	1,922913E+08	1,761388E+07	0,000000E+00	0,000000E+00	1,761652E+07	1,923033E+08	5,456487E+08	9,829424E+08	1,318639E+09	1,318609E+09	9,828776E+08	5,456004E+08
-642	1,922769E+08	1,760865E+07	0,000000E+00	0,000000E+00	1,760487E+07	1,922636E+08	5,455967E+08	9,828987E+08	1,318649E+09	1,318678E+09	9,829686E+08	5,456603E+08
-641	1,923048E+08	1,761460E+07	0,000000E+00	0,000000E+00	1,761134E+07	1,922921E+08	5,456466E+08	9,829572E+08	1,318682E+09	1,318687E+09	9,829575E+08	5,456321E+08
-640	1,922716E+08	1,760435E+07	0,000000E+00	0,000000E+00	1,760555E+07	1,922816E+08	5,456416E+08	9,829645E+08	1,318697E+09	1,318687E+09	9,829422E+08	5,456258E+08
-639	1,922765E+08	1,760520E+07	0,000000E+00	0,000000E+00	1,760244E+07	1,922641E+08	5,456115E+08	9,829289E+08	1,318681E+09	1,318708E+09	9,829904E+08	5,456665E+08
-638	1,922964E+08	1,760959E+07	0,000000E+00	0,000000E+00	1,761139E+07	1,923015E+08	5,456693E+08	9,829903E+08	1,318703E+09	1,318681E+09	9,829336E+08	5,456123E+08
-637	1,922624E+08	1,760115E+07	0,000000E+00	0,000000E+00	1,760317E+07	1,922744E+08	5,456318E+08	9,829541E+08	1,318689E+09	1,318678E+09	9,829422E+08	5,456341E+08
-636	1,922886E+08	1,761072E+07	0,000000E+00	0,000000E+00	1,760815E+07	1,922764E+08	5,456237E+08	9,829271E+08	1,318649E+09	1,318653E+09	9,829429E+08	5,456451E+08
-635	1,922927E+08	1,761193E+07	0,000000E+00	0,000000E+00	1,761521E+07	1,923022E+08	5,456450E+08	9,829331E+08	1,318629E+09	1,318601E+09	9,828679E+08	5,455915E+08
-634	1,922749E+08	1,761100E+07	0,000000E+00	0,000000E+00	1,761120E+07	1,922758E+08	5,455872E+08	9,828404E+08	1,318551E+09	1,318577E+09	9,828992E+08	5,456391E+08
-633	1,923146E+08	1,762421E+07	0,000000E+00	0,000000E+00	1,762245E+07	1,923050E+08	5,456178E+08	9,828425E+08	1,318502E+09	1,318508E+09	9,828509E+08	5,456160E+08
-632	1,922982E+08	1,762066E+07	0,000000E+00	0,000000E+00	1,762470E+07	1,923136E+08	5,456216E+08	9,828355E+08	1,318470E+09	1,318439E+09	9,827712E+08	5,455780E+08
-631	1,922990E+08	1,762503E+07	0,000000E+00	0,000000E+00	1,762325E+07	1,922886E+08	5,455650E+08	9,827547E+08	1,318412E+09	1,318430E+09	9,828054E+08	5,456212E+08
-630	1,923306E+08	1,763354E+07	0,000000E+00	0,000000E+00	1,763334E+07	1,923255E+08	5,456114E+08	9,827889E+08	1,318406E+09	1,318392E+09	9,827496E+08	5,455698E+08
-629	1,922963E+08	1,762676E+07	0,000000E+00	0,000000E+00	1,762923E+07	1,923096E+08	5,455861E+08	9,827648E+08	1,318399E+09	1,318388E+09	9,827492E+08	5,455797E+08
-628	1,923132E+08	1,763196E+07	0,000000E+00	0,000000E+00	1,762848E+07	1,923006E+08	5,455710E+08	9,827413E+08	1,318384E+09	1,318408E+09	9,827932E+08	5,456126E+08
-627	1,923221E+08	1,763191E+07	0,000000E+00	0,000000E+00	1,763427E+07	1,923313E+08	5,456216E+08	9,828046E+08	1,318422E+09	1,318403E+09	9,827502E+08	5,455648E+08
-626	1,922914E+08	1,762396E+07	0,000000E+00	0,000000E+00	1,762348E+07	1,922959E+08	5,455816E+08	9,827815E+08	1,318442E+09	1,318455E+09	9,828172E+08	5,456154E+08
-625	1,923196E+08	1,762910E+07	0,000000E+00	0,000000E+00	1,762436E+07	1,923020E+08	5,456041E+08	9,828216E+08	1,318481E+09	1,318489E+09	9,828390E+08	5,456181E+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°
-624	1,923048E+08	1,762277E+07	0,000000E+00	0,000000E+00	1,762390E+07	1,923104E+08	5,456258E+08	9,828662E+08	1,318529E+09	1,318503E+09	9,828089E+08	5,455793E+08
-623	1,922855E+08	1,761691E+07	0,000000E+00	0,000000E+00	1,761374E+07	1,922749E+08	5,455748E+08	9,828190E+08	1,318531E+09	1,318565E+09	9,828936E+08	5,456380E+08
-622	1,923132E+08	1,762251E+07	0,000000E+00	0,000000E+00	1,762060E+07	1,923056E+08	5,456283E+08	9,828760E+08	1,318556E+09	1,318565E+09	9,828813E+08	5,456121E+08
-621	1,922811E+08	1,761244E+07	0,000000E+00	0,000000E+00	1,761527E+07	1,922969E+08	5,456299E+08	9,829011E+08	1,318591E+09	1,318571E+09	9,828656E+08	5,456046E+08
-620	1,922854E+08	1,761305E+07	0,000000E+00	0,000000E+00	1,761107E+07	1,922768E+08	5,456014E+08	9,828712E+08	1,318579E+09	1,318595E+09	9,829120E+08	5,456441E+08
-619	1,923073E+08	1,761834E+07	0,000000E+00	0,000000E+00	1,761948E+07	1,923086E+08	5,456448E+08	9,829132E+08	1,318590E+09	1,318566E+09	9,828544E+08	5,455905E+08
-618	1,922755E+08	1,761130E+07	0,000000E+00	0,000000E+00	1,761224E+07	1,922836E+08	5,456049E+08	9,828669E+08	1,318563E+09	1,318561E+09	9,828700E+08	5,456167E+08
-617	1,923028E+08	1,762146E+07	0,000000E+00	0,000000E+00	1,761805E+07	1,922874E+08	5,455965E+08	9,828338E+08	1,318516E+09	1,318532E+09	9,828700E+08	5,456296E+08
-616	1,923085E+08	1,762297E+07	0,000000E+00	0,000000E+00	1,762608E+07	1,923182E+08	5,456267E+08	9,828414E+08	1,318481E+09	1,318456E+09	9,827782E+08	5,455687E+08
-615	1,922874E+08	1,762154E+07	0,000000E+00	0,000000E+00	1,762278E+07	1,922928E+08	5,455707E+08	9,827574E+08	1,318411E+09	1,318430E+09	9,828009E+08	5,456134E+08
-614	1,923279E+08	1,763433E+07	0,000000E+00	0,000000E+00	1,763303E+07	1,923184E+08	5,455958E+08	9,827565E+08	1,318368E+09	1,318369E+09	9,827566E+08	5,455900E+08
-613	1,923111E+08	1,763105E+07	0,000000E+00	0,000000E+00	1,763520E+07	1,923255E+08	5,455978E+08	9,827566E+08	1,318355E+09	1,318318E+09	9,826859E+08	5,455520E+08
-612	1,923095E+08	1,763465E+07	0,000000E+00	0,000000E+00	1,763270E+07	1,922996E+08	5,455428E+08	9,826755E+08	1,318294E+09	1,318314E+09	9,827274E+08	5,455976E+08
-611	1,923410E+08	1,764295E+07	0,000000E+00	0,000000E+00	1,764235E+07	1,923346E+08	5,455830E+08	9,826976E+08	1,318277E+09	1,318271E+09	9,826748E+08	5,455513E+08
-610	1,923085E+08	1,763638E+07	0,000000E+00	0,000000E+00	1,763862E+07	1,923229E+08	5,455684E+08	9,826843E+08	1,318271E+09	1,318269E+09	9,826816E+08	5,455669E+08
-609	1,923262E+08	1,764105E+07	0,000000E+00	0,000000E+00	1,763698E+07	1,923114E+08	5,455550E+08	9,826725E+08	1,318273E+09	1,318297E+09	9,827252E+08	5,455990E+08
-608	1,923363E+08	1,764116E+07	0,000000E+00	0,000000E+00	1,764243E+07	1,923418E+08	5,456061E+08	9,827374E+08	1,318313E+09	1,318287E+09	9,826738E+08	5,455438E+08
-607	1,923020E+08	1,763268E+07	0,000000E+00	0,000000E+00	1,763179E+07	1,923050E+08	5,455616E+08	9,827132E+08	1,318341E+09	1,318350E+09	9,827412E+08	5,455919E+08
-606	1,923290E+08	1,763723E+07	0,000000E+00	0,000000E+00	1,763247E+07	1,923099E+08	5,455783E+08	9,827429E+08	1,318373E+09	1,318387E+09	9,827717E+08	5,455977E+08
-605	1,923133E+08	1,763086E+07	0,000000E+00	0,000000E+00	1,763292E+07	1,923224E+08	5,456075E+08	9,827990E+08	1,318432E+09	1,318407E+09	9,827462E+08	5,455612E+08
-604	1,922922E+08	1,762385E+07	0,000000E+00	0,000000E+00	1,762227E+07	1,922895E+08	5,455675E+08	9,827619E+08	1,318430E+09	1,318460E+09	9,828269E+08	5,456203E+08
-603	1,923212E+08	1,762961E+07	0,000000E+00	0,000000E+00	1,762835E+07	1,923153E+08	5,456133E+08	9,828123E+08	1,318449E+09	1,318452E+09	9,828095E+08	5,455954E+08
-602	1,922928E+08	1,762080E+07	0,000000E+00	0,000000E+00	1,762329E+07	1,923076E+08	5,456153E+08	9,828368E+08	1,318484E+09	1,318463E+09	9,827968E+08	5,455884E+08
-601	1,922982E+08	1,762230E+07	0,000000E+00	0,000000E+00	1,761903E+07	1,922837E+08	5,455777E+08	9,827964E+08	1,318472E+09	1,318490E+09	9,828413E+08	5,456254E+08
-600	1,923211E+08	1,762865E+07	0,000000E+00	0,000000E+00	1,762856E+07	1,923184E+08	5,456188E+08	9,828238E+08	1,318460E+09	1,318441E+09	9,827738E+08	5,455676E+08
-599	1,922872E+08	1,762178E+07	0,000000E+00	0,000000E+00	1,762318E+07	1,922978E+08	5,455802E+08	9,827737E+08	1,318425E+09	1,318427E+09	9,827818E+08	5,455928E+08
-598	1,923148E+08	1,763149E+07	0,000000E+00	0,000000E+00	1,762905E+07	1,923020E+08	5,455731E+08	9,827384E+08	1,318370E+09	1,318390E+09	9,827817E+08	5,456085E+08
-597	1,923219E+08	1,763332E+07	0,000000E+00	0,000000E+00	1,763730E+07	1,923332E+08	5,456086E+08	9,827645E+08	1,318354E+09	1,318319E+09	9,826887E+08	5,455464E+08
-596	1,922998E+08	1,763143E+07	0,000000E+00	0,000000E+00	1,763295E+07	1,923060E+08	5,455534E+08	9,826826E+08	1,318287E+09	1,318296E+09	9,827098E+08	5,455887E+08
-595	1,923407E+08	1,764445E+07	0,000000E+00	0,000000E+00	1,764214E+07	1,923257E+08	5,455649E+08	9,826640E+08	1,318234E+09	1,318238E+09	9,826693E+08	5,455666E+08
-594	1,923251E+08	1,764199E+07	0,000000E+00	0,000000E+00	1,764517E+07	1,923370E+08	5,455709E+08	9,826621E+08	1,318217E+09	1,318192E+09	9,826099E+08	5,455327E+08
-593	1,923229E+08	1,764528E+07	0,000000E+00	0,000000E+00	1,764255E+07	1,923121E+08	5,455203E+08	9,825886E+08	1,318167E+09	1,318195E+09	9,826535E+08	5,455795E+08
-592	1,923539E+08	1,765305E+07	0,000000E+00	0,000000E+00	1,765241E+07	1,923504E+08	5,455695E+08	9,826203E+08	1,318148E+09	1,318141E+09	9,825932E+08	5,455306E+08
-591	1,923195E+08	1,764571E+07	0,000000E+00	0,000000E+00	1,764861E+07	1,923378E+08	5,455568E+08	9,826213E+08	1,318163E+09	1,318150E+09	9,825981E+08	5,455439E+08
-590	1,923363E+08	1,764922E+07	0,000000E+00	0,000000E+00	1,764558E+07	1,923218E+08	5,455374E+08	9,826072E+08	1,318173E+09	1,318192E+09	9,826525E+08	5,455787E+08
-589	1,923461E+08	1,764945E+07	0,000000E+00	0,000000E+00	1,765080E+07	1,923500E+08	5,455864E+08	9,826781E+08	1,318227E+09	1,318197E+09	9,826110E+08	5,455249E+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	1,923093E+08	1,763994E+07	0,000000E+00	0,000000E+00	1,763956E+07	1,923142E+08	5,455430E+08	9,826480E+08	1,318245E+09	1,318257E+09	9,826813E+08	5,455748E+08
-587	1,923366E+08	1,764445E+07	0,000000E+00	0,000000E+00	1,763996E+07	1,923174E+08	5,455528E+08	9,826611E+08	1,318257E+09	1,318282E+09	9,827099E+08	5,455845E+08
-586	1,923239E+08	1,763873E+07	0,000000E+00	0,000000E+00	1,764101E+07	1,923341E+08	5,455912E+08	9,827237E+08	1,318310E+09	1,318294E+09	9,826832E+08	5,455497E+08
-585	1,923047E+08	1,763219E+07	0,000000E+00	0,000000E+00	1,762987E+07	1,922989E+08	5,455523E+08	9,826979E+08	1,318324E+09	1,318348E+09	9,827551E+08	5,456043E+08
-584	1,923346E+08	1,763878E+07	0,000000E+00	0,000000E+00	1,763634E+07	1,923248E+08	5,455951E+08	9,827423E+08	1,318336E+09	1,318329E+09	9,827246E+08	5,455717E+08
-583	1,923044E+08	1,763045E+07	0,000000E+00	0,000000E+00	1,763224E+07	1,923174E+08	5,455933E+08	9,827625E+08	1,318373E+09	1,318345E+09	9,827103E+08	5,455618E+08
-582	1,923089E+08	1,763184E+07	0,000000E+00	0,000000E+00	1,762865E+07	1,922942E+08	5,455513E+08	9,827094E+08	1,318349E+09	1,318373E+09	9,827647E+08	5,456034E+08
-581	1,923317E+08	1,763843E+07	0,000000E+00	0,000000E+00	1,763923E+07	1,923325E+08	5,455989E+08	9,827459E+08	1,318341E+09	1,318322E+09	9,826988E+08	5,455481E+08
-580	1,922971E+08	1,763090E+07	0,000000E+00	0,000000E+00	1,763392E+07	1,923146E+08	5,455678E+08	9,827006E+08	1,318302E+09	1,318300E+09	9,827006E+08	5,455729E+08
-579	1,923265E+08	1,764092E+07	0,000000E+00	0,000000E+00	1,763883E+07	1,923130E+08	5,455489E+08	9,826526E+08	1,318237E+09	1,318255E+09	9,826957E+08	5,455892E+08
-578	1,923368E+08	1,764380E+07	0,000000E+00	0,000000E+00	1,764723E+07	1,923452E+08	5,455852E+08	9,826765E+08	1,318220E+09	1,318188E+09	9,826056E+08	5,455269E+08
-577	1,923154E+08	1,764258E+07	0,000000E+00	0,000000E+00	1,764263E+07	1,923152E+08	5,455257E+08	9,825929E+08	1,318157E+09	1,318167E+09	9,826248E+08	5,455663E+08
-576	1,923551E+08	1,765570E+07	0,000000E+00	0,000000E+00	1,765254E+07	1,923382E+08	5,455372E+08	9,825653E+08	1,318088E+09	1,318094E+09	9,825770E+08	5,455410E+08
-575	1,923371E+08	1,765292E+07	0,000000E+00	0,000000E+00	1,765667E+07	1,923538E+08	5,455509E+08	9,825720E+08	1,318077E+09	1,318052E+09	9,825169E+08	5,455075E+08
-574	1,923339E+08	1,765486E+07	0,000000E+00	0,000000E+00	1,765332E+07	1,923280E+08	5,455041E+08	9,825075E+08	1,318035E+09	1,318064E+09	9,825699E+08	5,455578E+08
-573	1,923644E+08	1,766220E+07	0,000000E+00	0,000000E+00	1,766243E+07	1,923643E+08	5,455577E+08	9,825634E+08	1,318048E+09	1,318027E+09	9,825161E+08	5,455107E+08
-572	1,923294E+08	1,765399E+07	0,000000E+00	0,000000E+00	1,765721E+07	1,923488E+08	5,455429E+08	9,825648E+08	1,318073E+09	1,318050E+09	9,825268E+08	5,455238E+08
-571	1,923457E+08	1,765713E+07	0,000000E+00	0,000000E+00	1,765261E+07	1,923255E+08	5,455078E+08	9,825302E+08	1,318071E+09	1,318095E+09	9,825889E+08	5,455628E+08
-570	1,923574E+08	1,765799E+07	0,000000E+00	0,000000E+00	1,765846E+07	1,923577E+08	5,455611E+08	9,825970E+08	1,318114E+09	1,318101E+09	9,825570E+08	5,455137E+08
-569	1,923211E+08	1,764835E+07	0,000000E+00	0,000000E+00	1,764715E+07	1,923233E+08	5,455230E+08	9,825741E+08	1,318134E+09	1,318154E+09	9,826197E+08	5,455617E+08
-568	1,923479E+08	1,765268E+07	0,000000E+00	0,000000E+00	1,764814E+07	1,923297E+08	5,455385E+08	9,825901E+08	1,318138E+09	1,318160E+09	9,826342E+08	5,455669E+08
-567	1,923349E+08	1,764717E+07	0,000000E+00	0,000000E+00	1,764969E+07	1,923471E+08	5,455796E+08	9,826637E+08	1,318208E+09	1,318179E+09	9,826003E+08	5,455268E+08
-566	1,923147E+08	1,764021E+07	0,000000E+00	0,000000E+00	1,763807E+07	1,923086E+08	5,455343E+08	9,826324E+08	1,318225E+09	1,318244E+09	9,826795E+08	5,455807E+08
-565	1,923434E+08	1,764738E+07	0,000000E+00	0,000000E+00	1,764508E+07	1,923338E+08	5,455758E+08	9,826814E+08	1,318245E+09	1,318231E+09	9,826540E+08	5,455497E+08
-564	1,923126E+08	1,763880E+07	0,000000E+00	0,000000E+00	1,764144E+07	1,923291E+08	5,455734E+08	9,826899E+08	1,318266E+09	1,318239E+09	9,826395E+08	5,455413E+08
-563	1,923173E+08	1,764039E+07	0,000000E+00	0,000000E+00	1,763797E+07	1,923048E+08	5,455246E+08	9,826179E+08	1,318216E+09	1,318249E+09	9,826910E+08	5,455882E+08
-562	1,923445E+08	1,764787E+07	0,000000E+00	0,000000E+00	1,764924E+07	1,923466E+08	5,455794E+08	9,826568E+08	1,318200E+09	1,318190E+09	9,826234E+08	5,455346E+08
-561	1,923129E+08	1,764129E+07	0,000000E+00	0,000000E+00	1,764370E+07	1,923264E+08	5,455468E+08	9,826183E+08	1,318170E+09	1,318164E+09	9,826129E+08	5,455539E+08
-560	1,923430E+08	1,765209E+07	0,000000E+00	0,000000E+00	1,764892E+07	1,923248E+08	5,455227E+08	9,825591E+08	1,318094E+09	1,318106E+09	9,825961E+08	5,455633E+08
-559	1,923518E+08	1,765542E+07	0,000000E+00	0,000000E+00	1,765811E+07	1,923579E+08	5,455583E+08	9,825829E+08	1,318081E+09	1,318044E+09	9,825039E+08	5,454970E+08
-558	1,923280E+08	1,765354E+07	0,000000E+00	0,000000E+00	1,765384E+07	1,923294E+08	5,455002E+08	9,824983E+08	1,318018E+09	1,318031E+09	9,825345E+08	5,455393E+08
-557	1,923651E+08	1,766596E+07	0,000000E+00	0,000000E+00	1,766393E+07	1,923549E+08	5,455229E+08	9,824933E+08	1,317967E+09	1,317966E+09	9,824922E+08	5,455174E+08
-556	1,923461E+08	1,766193E+07	0,000000E+00	0,000000E+00	1,766734E+07	1,923712E+08	5,455429E+08	9,825107E+08	1,317968E+09	1,317934E+09	9,824375E+08	5,454864E+08
-555	1,923436E+08	1,766338E+07	0,000000E+00	0,000000E+00	1,766214E+07	1,923382E+08	5,454845E+08	9,824370E+08	1,317928E+09	1,317953E+09	9,824976E+08	5,455414E+08
-554	1,923772E+08	1,767117E+07	0,000000E+00	0,000000E+00	1,767059E+07	1,923726E+08	5,455350E+08	9,824866E+08	1,317939E+09	1,317928E+09	9,824548E+08	5,454979E+08
-553	1,923439E+08	1,766355E+07	0,000000E+00	0,000000E+00	1,766469E+07	1,923534E+08	5,455138E+08	9,824853E+08	1,317967E+09	1,317953E+09	9,824654E+08	5,455099E+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	1,923590E+08	1,766642E+07	0,000000E+00	0,000000E+00	1,766079E+07	1,923336E+08	5,454771E+08	9,824370E+08	1,317942E+09	1,317976E+09	9,825165E+08	5,455454E+08
-551	1,923689E+08	1,766705E+07	0,000000E+00	0,000000E+00	1,766745E+07	1,923698E+08	5,455402E+08	9,825139E+08	1,317989E+09	1,317977E+09	9,824767E+08	5,454939E+08
-550	1,923313E+08	1,765633E+07	0,000000E+00	0,000000E+00	1,765594E+07	1,923364E+08	5,455093E+08	9,825043E+08	1,318018E+09	1,318034E+09	9,825421E+08	5,455409E+08
-549	1,923566E+08	1,766050E+07	0,000000E+00	0,000000E+00	1,765671E+07	1,923418E+08	5,455300E+08	9,825428E+08	1,318048E+09	1,318051E+09	9,825560E+08	5,455438E+08
-548	1,923429E+08	1,765470E+07	0,000000E+00	0,000000E+00	1,765786E+07	1,923588E+08	5,455687E+08	9,826119E+08	1,318123E+09	1,318082E+09	9,825275E+08	5,455032E+08
-547	1,923222E+08	1,764799E+07	0,000000E+00	0,000000E+00	1,764577E+07	1,923155E+08	5,455088E+08	9,825575E+08	1,318123E+09	1,318147E+09	9,826136E+08	5,455617E+08
-546	1,923532E+08	1,765590E+07	0,000000E+00	0,000000E+00	1,765384E+07	1,923448E+08	5,455531E+08	9,825979E+08	1,318128E+09	1,318131E+09	9,825953E+08	5,455369E+08
-545	1,923253E+08	1,764807E+07	0,000000E+00	0,000000E+00	1,765047E+07	1,923408E+08	5,455538E+08	9,826112E+08	1,318147E+09	1,318126E+09	9,825706E+08	5,455276E+08
-544	1,923309E+08	1,764999E+07	0,000000E+00	0,000000E+00	1,764789E+07	1,923186E+08	5,455044E+08	9,825328E+08	1,318079E+09	1,318110E+09	9,826036E+08	5,455695E+08
-543	1,923594E+08	1,765821E+07	0,000000E+00	0,000000E+00	1,765943E+07	1,923600E+08	5,455598E+08	9,825762E+08	1,318070E+09	1,318050E+09	9,825256E+08	5,455100E+08
-542	1,923272E+08	1,765168E+07	0,000000E+00	0,000000E+00	1,765404E+07	1,923384E+08	5,455229E+08	9,825312E+08	1,318038E+09	1,318029E+09	9,825196E+08	5,455262E+08
-541	1,923548E+08	1,766275E+07	0,000000E+00	0,000000E+00	1,765962E+07	1,923371E+08	5,455006E+08	9,824802E+08	1,317970E+09	1,317976E+09	9,825046E+08	5,455351E+08
-540	1,923619E+08	1,766549E+07	0,000000E+00	0,000000E+00	1,766926E+07	1,923740E+08	5,455383E+08	9,824982E+08	1,317952E+09	1,317916E+09	9,824174E+08	5,454712E+08
-539	1,923374E+08	1,766321E+07	0,000000E+00	0,000000E+00	1,766428E+07	1,923427E+08	5,454758E+08	9,824053E+08	1,317879E+09	1,317899E+09	9,824524E+08	5,455197E+08
-538	1,923774E+08	1,767561E+07	0,000000E+00	0,000000E+00	1,767404E+07	1,923693E+08	5,455054E+08	9,824102E+08	1,317837E+09	1,317844E+09	9,824184E+08	5,455032E+08
-537	1,923623E+08	1,767238E+07	0,000000E+00	0,000000E+00	1,767632E+07	1,923803E+08	5,455210E+08	9,824359E+08	1,317854E+09	1,317817E+09	9,823615E+08	5,454702E+08
-536	1,923593E+08	1,767373E+07	0,000000E+00	0,000000E+00	1,767089E+07	1,923462E+08	5,454551E+08	9,823486E+08	1,317802E+09	1,317829E+09	9,824165E+08	5,455218E+08
-535	1,923918E+08	1,768158E+07	0,000000E+00	0,000000E+00	1,767954E+07	1,923813E+08	5,455067E+08	9,823988E+08	1,317817E+09	1,317809E+09	9,823746E+08	5,454765E+08
-534	1,923558E+08	1,767282E+07	0,000000E+00	0,000000E+00	1,767398E+07	1,923647E+08	5,454896E+08	9,823983E+08	1,317842E+09	1,317838E+09	9,823926E+08	5,454890E+08
-533	1,923675E+08	1,767462E+07	0,000000E+00	0,000000E+00	1,767012E+07	1,923483E+08	5,454676E+08	9,823773E+08	1,317835E+09	1,317863E+09	9,824415E+08	5,455239E+08
-532	1,923757E+08	1,767406E+07	0,000000E+00	0,000000E+00	1,767631E+07	1,923856E+08	5,455358E+08	9,824645E+08	1,317897E+09	1,317873E+09	9,824036E+08	5,454717E+08
-531	1,923377E+08	1,766298E+07	0,000000E+00	0,000000E+00	1,766334E+07	1,923462E+08	5,454958E+08	9,824488E+08	1,317929E+09	1,317938E+09	9,824737E+08	5,455211E+08
-530	1,923647E+08	1,766766E+07	0,000000E+00	0,000000E+00	1,766410E+07	1,923509E+08	5,455141E+08	9,824807E+08	1,317958E+09	1,317968E+09	9,824993E+08	5,455281E+08
-529	1,923544E+08	1,766320E+07	0,000000E+00	0,000000E+00	1,766502E+07	1,923645E+08	5,455454E+08	9,825427E+08	1,318028E+09	1,317994E+09	9,824699E+08	5,454887E+08
-528	1,923338E+08	1,765686E+07	0,000000E+00	0,000000E+00	1,765438E+07	1,923253E+08	5,454812E+08	9,824670E+08	1,317996E+09	1,318030E+09	9,825428E+08	5,455463E+08
-527	1,923661E+08	1,766541E+07	0,000000E+00	0,000000E+00	1,766328E+07	1,923573E+08	5,455314E+08	9,825103E+08	1,317995E+09	1,318000E+09	9,825122E+08	5,455191E+08
-526	1,923391E+08	1,765746E+07	0,000000E+00	0,000000E+00	1,766039E+07	1,923540E+08	5,455343E+08	9,825277E+08	1,318013E+09	1,317991E+09	9,824843E+08	5,455064E+08
-525	1,923441E+08	1,765995E+07	0,000000E+00	0,000000E+00	1,765801E+07	1,923315E+08	5,454887E+08	9,824647E+08	1,317960E+09	1,317975E+09	9,825088E+08	5,455429E+08
-524	1,923712E+08	1,766803E+07	0,000000E+00	0,000000E+00	1,766947E+07	1,923727E+08	5,455395E+08	9,824990E+08	1,317951E+09	1,317923E+09	9,824339E+08	5,454811E+08
-523	1,923378E+08	1,766186E+07	0,000000E+00	0,000000E+00	1,766402E+07	1,923489E+08	5,454938E+08	9,824372E+08	1,317905E+09	1,317901E+09	9,824340E+08	5,455009E+08
-522	1,923661E+08	1,767302E+07	0,000000E+00	0,000000E+00	1,767033E+07	1,923518E+08	5,454771E+08	9,823837E+08	1,317832E+09	1,317852E+09	9,824278E+08	5,455153E+08
-521	1,923760E+08	1,767634E+07	0,000000E+00	0,000000E+00	1,767962E+07	1,923878E+08	5,455190E+08	9,824139E+08	1,317821E+09	1,317790E+09	9,823393E+08	5,454545E+08
-520	1,923524E+08	1,767395E+07	0,000000E+00	0,000000E+00	1,767493E+07	1,923569E+08	5,454543E+08	9,823181E+08	1,317742E+09	1,317761E+09	9,823646E+08	5,455006E+08
-519	1,923929E+08	1,768636E+07	0,000000E+00	0,000000E+00	1,768396E+07	1,923812E+08	5,454834E+08	9,823289E+08	1,317713E+09	1,317713E+09	9,823286E+08	5,454815E+08
-518	1,923772E+08	1,768279E+07	0,000000E+00	0,000000E+00	1,768609E+07	1,923900E+08	5,454948E+08	9,823502E+08	1,317731E+09	1,317699E+09	9,822829E+08	5,454481E+08
-517	1,923711E+08	1,768352E+07	0,000000E+00	0,000000E+00	1,768055E+07	1,923569E+08	5,454334E+08	9,822734E+08	1,317685E+09	1,317711E+09	9,823375E+08	5,454978E+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	1,923999E+08	1,768998E+07	0,000000E+00	0,000000E+00	1,768921E+07	1,923956E+08	5,454890E+08	9,823219E+08	1,317699E+09	1,317694E+09	9,822995E+08	5,454536E+08
-515	1,923624E+08	1,768033E+07	0,000000E+00	0,000000E+00	1,768279E+07	1,923776E+08	5,454731E+08	9,823222E+08	1,317721E+09	1,317721E+09	9,823199E+08	5,454699E+08
-514	1,923756E+08	1,768172E+07	0,000000E+00	0,000000E+00	1,767834E+07	1,923618E+08	5,454582E+08	9,823155E+08	1,317732E+09	1,317761E+09	9,823757E+08	5,455076E+08
-513	1,923875E+08	1,768223E+07	0,000000E+00	0,000000E+00	1,768327E+07	1,923932E+08	5,455217E+08	9,824110E+08	1,317811E+09	1,317781E+09	9,823401E+08	5,454562E+08
-512	1,923500E+08	1,767146E+07	0,000000E+00	0,000000E+00	1,767055E+07	1,923526E+08	5,454718E+08	9,823775E+08	1,317829E+09	1,317838E+09	9,824054E+08	5,455028E+08
-511	1,923766E+08	1,767667E+07	0,000000E+00	0,000000E+00	1,767189E+07	1,923585E+08	5,454900E+08	9,824052E+08	1,317853E+09	1,317865E+09	9,824306E+08	5,455102E+08
-510	1,923659E+08	1,767202E+07	0,000000E+00	0,000000E+00	1,767379E+07	1,923749E+08	5,455231E+08	9,824618E+08	1,317911E+09	1,317887E+09	9,824046E+08	5,454715E+08
-509	1,923437E+08	1,766539E+07	0,000000E+00	0,000000E+00	1,766393E+07	1,923396E+08	5,454708E+08	9,824037E+08	1,317882E+09	1,317910E+09	9,824657E+08	5,455261E+08
-508	1,923758E+08	1,767362E+07	0,000000E+00	0,000000E+00	1,767293E+07	1,923721E+08	5,455197E+08	9,824454E+08	1,317884E+09	1,317881E+09	9,824310E+08	5,454961E+08
-507	1,923491E+08	1,766606E+07	0,000000E+00	0,000000E+00	1,766937E+07	1,923644E+08	5,455119E+08	9,824482E+08	1,317892E+09	1,317869E+09	9,824013E+08	5,454832E+08
-506	1,923557E+08	1,766942E+07	0,000000E+00	0,000000E+00	1,766749E+07	1,923426E+08	5,454651E+08	9,823785E+08	1,317838E+09	1,317860E+09	9,824316E+08	5,455211E+08
-505	1,923856E+08	1,767886E+07	0,000000E+00	0,000000E+00	1,767892E+07	1,923818E+08	5,455111E+08	9,824080E+08	1,317822E+09	1,317800E+09	9,823549E+08	5,454607E+08
-504	1,923515E+08	1,767283E+07	0,000000E+00	0,000000E+00	1,767489E+07	1,923623E+08	5,454645E+08	9,823322E+08	1,317751E+09	1,317755E+09	9,823439E+08	5,454794E+08
-503	1,923803E+08	1,768404E+07	0,000000E+00	0,000000E+00	1,768141E+07	1,923676E+08	5,454574E+08	9,822912E+08	1,317683E+09	1,317703E+09	9,823331E+08	5,454933E+08
-502	1,923906E+08	1,768707E+07	0,000000E+00	0,000000E+00	1,769068E+07	1,924022E+08	5,454994E+08	9,823281E+08	1,317683E+09	1,317577E+09	9,822496E+08	5,454323E+08
-501	1,923665E+08	1,768472E+07	0,000000E+00	0,000000E+00	1,768569E+07	1,923707E+08	5,454388E+08	9,822481E+08	1,317621E+09	1,317628E+09	9,822720E+08	5,454744E+08
-500	1,924048E+08	1,769623E+07	0,000000E+00	0,000000E+00	1,769405E+07	1,923933E+08	5,454614E+08	9,822506E+08	1,317598E+09	1,317595E+09	9,822445E+08	5,454546E+08
-499	1,923869E+08	1,769220E+07	0,000000E+00	0,000000E+00	1,769560E+07	1,924002E+08	5,454669E+08	9,822604E+08	1,317605E+09	1,317581E+09	9,822076E+08	5,454265E+08
-498	1,923803E+08	1,769211E+07	0,000000E+00	0,000000E+00	1,769005E+07	1,923712E+08	5,454153E+08	9,821912E+08	1,317564E+09	1,317603E+09	9,822708E+08	5,454809E+08
-497	1,924110E+08	1,769859E+07	0,000000E+00	0,000000E+00	1,769745E+07	1,924068E+08	5,454755E+08	9,822570E+08	1,317592E+09	1,317587E+09	9,822335E+08	5,454392E+08
-496	1,923739E+08	1,768860E+07	0,000000E+00	0,000000E+00	1,769096E+07	1,923885E+08	5,454574E+08	9,822561E+08	1,317614E+09	1,317608E+09	9,822463E+08	5,454525E+08
-495	1,923876E+08	1,769018E+07	0,000000E+00	0,000000E+00	1,768577E+07	1,923706E+08	5,454427E+08	9,822555E+08	1,317638E+09	1,317658E+09	9,823028E+08	5,454878E+08
-494	1,923989E+08	1,769087E+07	0,000000E+00	0,000000E+00	1,769096E+07	1,923999E+08	5,454994E+08	9,823422E+08	1,317715E+09	1,317689E+09	9,822790E+08	5,454386E+08
-493	1,923605E+08	1,768014E+07	0,000000E+00	0,000000E+00	1,767895E+07	1,923621E+08	5,454535E+08	9,823125E+08	1,317728E+09	1,317737E+09	9,823385E+08	5,454825E+08
-492	1,923843E+08	1,768447E+07	0,000000E+00	0,000000E+00	1,768083E+07	1,923707E+08	5,454715E+08	9,823304E+08	1,317742E+09	1,317759E+09	9,823624E+08	5,454907E+08
-491	1,923738E+08	1,767974E+07	0,000000E+00	0,000000E+00	1,768248E+07	1,923862E+08	5,455035E+08	9,823822E+08	1,317785E+09	1,317766E+09	9,823320E+08	5,454546E+08
-490	1,923541E+08	1,767345E+07	0,000000E+00	0,000000E+00	1,767303E+07	1,923527E+08	5,454548E+08	9,823287E+08	1,317763E+09	1,317792E+09	9,823899E+08	5,455081E+08
-489	1,923898E+08	1,768327E+07	0,000000E+00	0,000000E+00	1,768121E+07	1,923800E+08	5,454975E+08	9,823702E+08	1,317770E+09	1,317763E+09	9,823529E+08	5,454770E+08
-488	1,923636E+08	1,767644E+07	0,000000E+00	0,000000E+00	1,767884E+07	1,923740E+08	5,454827E+08	9,823542E+08	1,317757E+09	1,317736E+09	9,823136E+08	5,454595E+08
-487	1,923696E+08	1,768047E+07	0,000000E+00	0,000000E+00	1,767769E+07	1,923549E+08	5,454396E+08	9,822856E+08	1,317699E+09	1,317722E+09	9,823406E+08	5,454957E+08
-486	1,923980E+08	1,768963E+07	0,000000E+00	0,000000E+00	1,769007E+07	1,923970E+08	5,454899E+08	9,823163E+08	1,317680E+09	1,317664E+09	9,822698E+08	5,454386E+08
-485	1,923639E+08	1,768338E+07	0,000000E+00	0,000000E+00	1,768652E+07	1,923803E+08	5,454552E+08	9,822621E+08	1,317621E+09	1,317614E+09	9,822498E+08	5,454535E+08
-484	1,923909E+08	1,769363E+07	0,000000E+00	0,000000E+00	1,769252E+07	1,923843E+08	5,454446E+08	9,822216E+08	1,317565E+09	1,317574E+09	9,822433E+08	5,454668E+08
-483	1,924012E+08	1,769671E+07	0,000000E+00	0,000000E+00	1,770068E+07	1,924135E+08	5,454762E+08	9,822459E+08	1,317559E+09	1,317526E+09	9,821676E+08	5,454100E+08
-482	1,923784E+08	1,769455E+07	0,000000E+00	0,000000E+00	1,769566E+07	1,923822E+08	5,454136E+08	9,821609E+08	1,317501E+09	1,317518E+09	9,821996E+08	5,454554E+08
-481	1,924186E+08	1,770654E+07	0,000000E+00	0,000000E+00	1,770300E+07	1,924014E+08	5,454320E+08	9,821609E+08	1,317473E+09	1,317481E+09	9,821753E+08	5,454389E+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	1,924001E+08	1,770211E+07	0,000000E+00	0,000000E+00	1,770523E+07	1,924116E+08	5,454390E+08	9,821621E+08	1,317461E+09	1,317448E+09	9,821284E+08	5,454093E+08
-479	1,923935E+08	1,770159E+07	0,000000E+00	0,000000E+00	1,769902E+07	1,923839E+08	5,453994E+08	9,821149E+08	1,317437E+09	1,317469E+09	9,821869E+08	5,454613E+08
-478	1,924231E+08	1,770760E+07	0,000000E+00	0,000000E+00	1,770604E+07	1,924172E+08	5,454599E+08	9,821911E+08	1,317482E+09	1,317471E+09	9,821581E+08	5,454206E+08
-477	1,923857E+08	1,769753E+07	0,000000E+00	0,000000E+00	1,769924E+07	1,923989E+08	5,454468E+08	9,822051E+08	1,317522E+09	1,317502E+09	9,821696E+08	5,454286E+08
-476	1,923959E+08	1,769816E+07	0,000000E+00	0,000000E+00	1,769400E+07	1,923806E+08	5,454258E+08	9,821949E+08	1,317550E+09	1,317568E+09	9,822369E+08	5,454643E+08
-475	1,924053E+08	1,769857E+07	0,000000E+00	0,000000E+00	1,769904E+07	1,924084E+08	5,454753E+08	9,822650E+08	1,317608E+09	1,317593E+09	9,822197E+08	5,454220E+08
-474	1,923681E+08	1,768753E+07	0,000000E+00	0,000000E+00	1,768766E+07	1,923753E+08	5,454372E+08	9,822395E+08	1,317622E+09	1,317642E+09	9,822806E+08	5,454695E+08
-473	1,923951E+08	1,769251E+07	0,000000E+00	0,000000E+00	1,768873E+07	1,923804E+08	5,454551E+08	9,822644E+08	1,317636E+09	1,317653E+09	9,822986E+08	5,454783E+08
-472	1,923861E+08	1,768812E+07	0,000000E+00	0,000000E+00	1,769082E+07	1,923956E+08	5,454817E+08	9,823048E+08	1,317665E+09	1,317642E+09	9,822526E+08	5,454371E+08
-471	1,923677E+08	1,768287E+07	0,000000E+00	0,000000E+00	1,768150E+07	1,923626E+08	5,454354E+08	9,822551E+08	1,317645E+09	1,317665E+09	9,823039E+08	5,454851E+08
-470	1,924024E+08	1,769328E+07	0,000000E+00	0,000000E+00	1,769052E+07	1,923890E+08	5,454715E+08	9,822853E+08	1,317644E+09	1,317640E+09	9,822723E+08	5,454544E+08
-469	1,923758E+08	1,768686E+07	0,000000E+00	0,000000E+00	1,768951E+07	1,923885E+08	5,454650E+08	9,822740E+08	1,317626E+09	1,317601E+09	9,822229E+08	5,454319E+08
-468	1,923786E+08	1,769015E+07	0,000000E+00	0,000000E+00	1,768912E+07	1,923725E+08	5,454232E+08	9,822016E+08	1,317566E+09	1,317588E+09	9,822510E+08	5,454681E+08
-467	1,924065E+08	1,769902E+07	0,000000E+00	0,000000E+00	1,770087E+07	1,924120E+08	5,454709E+08	9,822308E+08	1,317542E+09	1,317525E+09	9,821823E+08	5,454172E+08
-466	1,923763E+08	1,769332E+07	0,000000E+00	0,000000E+00	1,769738E+07	1,923951E+08	5,454362E+08	9,821828E+08	1,317499E+09	1,317490E+09	9,821665E+08	5,454342E+08
-465	1,924069E+08	1,770464E+07	0,000000E+00	0,000000E+00	1,770179E+07	1,923920E+08	5,454170E+08	9,821386E+08	1,317446E+09	1,317455E+09	9,821651E+08	5,454490E+08
-464	1,924173E+08	1,770798E+07	0,000000E+00	0,000000E+00	1,771048E+07	1,924215E+08	5,454408E+08	9,821430E+08	1,317417E+09	1,317393E+09	9,820845E+08	5,453909E+08
-463	1,923944E+08	1,770597E+07	0,000000E+00	0,000000E+00	1,770573E+07	1,923939E+08	5,453866E+08	9,820644E+08	1,317358E+09	1,317378E+09	9,821139E+08	5,454345E+08
-462	1,924315E+08	1,771691E+07	0,000000E+00	0,000000E+00	1,771326E+07	1,924147E+08	5,454105E+08	9,820719E+08	1,317335E+09	1,317349E+09	9,820956E+08	5,454205E+08
-461	1,924124E+08	1,771182E+07	0,000000E+00	0,000000E+00	1,771552E+07	1,924282E+08	5,454322E+08	9,820997E+08	1,317343E+09	1,317317E+09	9,820404E+08	5,453845E+08
-460	1,924023E+08	1,770981E+07	0,000000E+00	0,000000E+00	1,770838E+07	1,923984E+08	5,453897E+08	9,820586E+08	1,317342E+09	1,317361E+09	9,821066E+08	5,454340E+08
-459	1,924297E+08	1,771540E+07	0,000000E+00	0,000000E+00	1,771420E+07	1,924264E+08	5,454417E+08	9,821274E+08	1,317387E+09	1,317374E+09	9,820913E+08	5,454011E+08
-458	1,923944E+08	1,770544E+07	0,000000E+00	0,000000E+00	1,770747E+07	1,924082E+08	5,454257E+08	9,821384E+08	1,317434E+09	1,317420E+09	9,821130E+08	5,454128E+08
-457	1,924056E+08	1,770623E+07	0,000000E+00	0,000000E+00	1,770135E+07	1,923872E+08	5,454015E+08	9,821221E+08	1,317450E+09	1,317478E+09	9,821837E+08	5,454533E+08
-456	1,924156E+08	1,770650E+07	0,000000E+00	0,000000E+00	1,770712E+07	1,924175E+08	5,454507E+08	9,821790E+08	1,317482E+09	1,317477E+09	9,821537E+08	5,454105E+08
-455	1,923805E+08	1,769582E+07	0,000000E+00	0,000000E+00	1,769569E+07	1,923863E+08	5,454216E+08	9,821677E+08	1,317500E+09	1,317514E+09	9,822019E+08	5,454531E+08
-454	1,924076E+08	1,770129E+07	0,000000E+00	0,000000E+00	1,769708E+07	1,923892E+08	5,454350E+08	9,821924E+08	1,317522E+09	1,317532E+09	9,822203E+08	5,454604E+08
-453	1,923996E+08	1,769765E+07	0,000000E+00	0,000000E+00	1,769973E+07	1,924068E+08	5,454666E+08	9,822387E+08	1,317554E+09	1,317518E+09	9,821631E+08	5,454097E+08
-452	1,923775E+08	1,769215E+07	0,000000E+00	0,000000E+00	1,769129E+07	1,923753E+08	5,454160E+08	9,821809E+08	1,317534E+09	1,317549E+09	9,822186E+08	5,454542E+08
-451	1,924091E+08	1,770235E+07	0,000000E+00	0,000000E+00	1,770059E+07	1,924020E+08	5,454491E+08	9,821999E+08	1,317517E+09	1,317517E+09	9,821929E+08	5,454318E+08
-450	1,923850E+08	1,769604E+07	0,000000E+00	0,000000E+00	1,770037E+07	1,924055E+08	5,454493E+08	9,821965E+08	1,317507E+09	1,317484E+09	9,821463E+08	5,454127E+08
-449	1,923908E+08	1,769995E+07	0,000000E+00	0,000000E+00	1,769895E+07	1,923851E+08	5,454059E+08	9,821283E+08	1,317449E+09	1,317468E+09	9,821753E+08	5,454527E+08
-448	1,924211E+08	1,770922E+07	0,000000E+00	0,000000E+00	1,771071E+07	1,924223E+08	5,454438E+08	9,821405E+08	1,317408E+09	1,317392E+09	9,820975E+08	5,454002E+08
-447	1,923935E+08	1,770475E+07	0,000000E+00	0,000000E+00	1,770732E+07	1,924052E+08	5,454094E+08	9,820928E+08	1,317365E+09	1,317353E+09	9,820789E+08	5,454139E+08
-446	1,924230E+08	1,771627E+07	0,000000E+00	0,000000E+00	1,771217E+07	1,924009E+08	5,453829E+08	9,820372E+08	1,317305E+09	1,317322E+09	9,820830E+08	5,454298E+08
-445	1,924322E+08	1,771934E+07	0,000000E+00	0,000000E+00	1,772158E+07	1,924362E+08	5,454185E+08	9,820493E+08	1,317271E+09	1,317247E+09	9,819900E+08	5,453650E+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	1,924049E+08	1,771589E+07	0,000000E+00	0,000000E+00	1,771707E+07	1,924119E+08	5,453714E+08	9,819806E+08	1,317221E+09	1,317239E+09	9,820208E+08	5,454054E+08
-443	1,924388E+08	1,772551E+07	0,000000E+00	0,000000E+00	1,772325E+07	1,924292E+08	5,453953E+08	9,819961E+08	1,317207E+09	1,317214E+09	9,820081E+08	5,453974E+08
-442	1,924223E+08	1,772041E+07	0,000000E+00	0,000000E+00	1,772496E+07	1,924418E+08	5,454181E+08	9,820383E+08	1,317247E+09	1,317213E+09	9,819654E+08	5,453642E+08
-441	1,924138E+08	1,771865E+07	0,000000E+00	0,000000E+00	1,771597E+07	1,924056E+08	5,453698E+08	9,819973E+08	1,317255E+09	1,317273E+09	9,820447E+08	5,454176E+08
-440	1,924406E+08	1,772397E+07	0,000000E+00	0,000000E+00	1,772187E+07	1,924324E+08	5,454126E+08	9,820457E+08	1,317279E+09	1,317275E+09	9,820300E+08	5,453878E+08
-439	1,924070E+08	1,771436E+07	0,000000E+00	0,000000E+00	1,771532E+07	1,924175E+08	5,454047E+08	9,820629E+08	1,317322E+09	1,317313E+09	9,820496E+08	5,453996E+08
-438	1,924164E+08	1,771450E+07	0,000000E+00	0,000000E+00	1,770954E+07	1,923967E+08	5,453814E+08	9,820478E+08	1,317337E+09	1,317369E+09	9,821201E+08	5,454415E+08
-437	1,924274E+08	1,771474E+07	0,000000E+00	0,000000E+00	1,771557E+07	1,924301E+08	5,454413E+08	9,821193E+08	1,317373E+09	1,317357E+09	9,820726E+08	5,453889E+08
-436	1,923898E+08	1,770362E+07	0,000000E+00	0,000000E+00	1,770440E+07	1,923992E+08	5,454096E+08	9,821079E+08	1,317401E+09	1,317403E+09	9,821192E+08	5,454247E+08
-435	1,924145E+08	1,770920E+07	0,000000E+00	0,000000E+00	1,770554E+07	1,923988E+08	5,454142E+08	9,821201E+08	1,317414E+09	1,317422E+09	9,821436E+08	5,454375E+08
-434	1,924093E+08	1,770639E+07	0,000000E+00	0,000000E+00	1,770916E+07	1,924186E+08	5,454436E+08	9,821631E+08	1,317450E+09	1,317418E+09	9,820927E+08	5,453894E+08
-433	1,923885E+08	1,770159E+07	0,000000E+00	0,000000E+00	1,770050E+07	1,923862E+08	5,453924E+08	9,820991E+08	1,317418E+09	1,317439E+09	9,821492E+08	5,454373E+08
-432	1,924201E+08	1,771170E+07	0,000000E+00	0,000000E+00	1,771040E+07	1,924141E+08	5,454243E+08	9,821057E+08	1,317375E+09	1,317382E+09	9,821120E+08	5,454165E+08
-431	1,924005E+08	1,770652E+07	0,000000E+00	0,000000E+00	1,771033E+07	1,924186E+08	5,454305E+08	9,821139E+08	1,317369E+09	1,317340E+09	9,820573E+08	5,453943E+08
-430	1,924065E+08	1,771105E+07	0,000000E+00	0,000000E+00	1,770919E+07	1,923954E+08	5,453793E+08	9,820401E+08	1,317315E+09	1,317333E+09	9,820886E+08	5,454345E+08
-429	1,924384E+08	1,772091E+07	0,000000E+00	0,000000E+00	1,772138E+07	1,924350E+08	5,454211E+08	9,820520E+08	1,317271E+09	1,317250E+09	9,819996E+08	5,453730E+08
-428	1,924071E+08	1,771603E+07	0,000000E+00	0,000000E+00	1,771896E+07	1,924202E+08	5,453841E+08	9,819981E+08	1,317225E+09	1,317216E+09	9,819831E+08	5,453822E+08
-427	1,924323E+08	1,772649E+07	0,000000E+00	0,000000E+00	1,772346E+07	1,924165E+08	5,453588E+08	9,819400E+08	1,317158E+09	1,317181E+09	9,819936E+08	5,454058E+08
-426	1,924427E+08	1,772895E+07	0,000000E+00	0,000000E+00	1,773288E+07	1,924541E+08	5,454030E+08	9,819716E+08	1,317148E+09	1,317121E+09	9,819056E+08	5,453429E+08
-425	1,924161E+08	1,772514E+07	0,000000E+00	0,000000E+00	1,772642E+07	1,924248E+08	5,453578E+08	9,819169E+08	1,317114E+09	1,317125E+09	9,819438E+08	5,453857E+08
-424	1,924494E+08	1,773417E+07	0,000000E+00	0,000000E+00	1,773164E+07	1,924385E+08	5,453743E+08	9,819233E+08	1,317098E+09	1,317103E+09	9,819334E+08	5,453799E+08
-423	1,924363E+08	1,773002E+07	0,000000E+00	0,000000E+00	1,773284E+07	1,924494E+08	5,453970E+08	9,819682E+08	1,317143E+09	1,317109E+09	9,818982E+08	5,453477E+08
-422	1,924262E+08	1,772807E+07	0,000000E+00	0,000000E+00	1,772410E+07	1,924118E+08	5,453411E+08	9,819168E+08	1,317147E+09	1,317176E+09	9,819857E+08	5,454050E+08
-421	1,924530E+08	1,773301E+07	0,000000E+00	0,000000E+00	1,773057E+07	1,924439E+08	5,453938E+08	9,819670E+08	1,317160E+09	1,317160E+09	9,819572E+08	5,453693E+08
-420	1,924165E+08	1,772233E+07	0,000000E+00	0,000000E+00	1,772443E+07	1,924314E+08	5,453906E+08	9,819914E+08	1,317207E+09	1,317197E+09	9,819724E+08	5,453759E+08
-419	1,924232E+08	1,772160E+07	0,000000E+00	0,000000E+00	1,771790E+07	1,924080E+08	5,453655E+08	9,819790E+08	1,317223E+09	1,317251E+09	9,820432E+08	5,454221E+08
-418	1,924372E+08	1,772247E+07	0,000000E+00	0,000000E+00	1,772390E+07	1,924406E+08	5,454239E+08	9,820590E+08	1,317284E+09	1,317259E+09	9,820000E+08	5,453683E+08
-417	1,924007E+08	1,771210E+07	0,000000E+00	0,000000E+00	1,771197E+07	1,924071E+08	5,453896E+08	9,820434E+08	1,317308E+09	1,317309E+09	9,820527E+08	5,454048E+08
-416	1,924241E+08	1,771781E+07	0,000000E+00	0,000000E+00	1,771395E+07	1,924074E+08	5,453873E+08	9,820343E+08	1,317295E+09	1,317312E+09	9,820724E+08	5,454195E+08
-415	1,924219E+08	1,771603E+07	0,000000E+00	0,000000E+00	1,771834E+07	1,924317E+08	5,454257E+08	9,820826E+08	1,317324E+09	1,317295E+09	9,820192E+08	5,453729E+08
-414	1,924007E+08	1,771136E+07	0,000000E+00	0,000000E+00	1,771051E+07	1,923993E+08	5,453732E+08	9,820190E+08	1,317292E+09	1,317315E+09	9,820733E+08	5,454222E+08
-413	1,924344E+08	1,772163E+07	0,000000E+00	0,000000E+00	1,772059E+07	1,924289E+08	5,454105E+08	9,820305E+08	1,317247E+09	1,317244E+09	9,820185E+08	5,453929E+08
-412	1,924140E+08	1,771675E+07	0,000000E+00	0,000000E+00	1,772110E+07	1,924330E+08	5,454115E+08	9,820348E+08	1,317246E+09	1,317210E+09	9,819633E+08	5,453644E+08
-411	1,924175E+08	1,772125E+07	0,000000E+00	0,000000E+00	1,771982E+07	1,924068E+08	5,453509E+08	9,819455E+08	1,317177E+09	1,317198E+09	9,819994E+08	5,454100E+08
-410	1,924511E+08	1,773147E+07	0,000000E+00	0,000000E+00	1,773252E+07	1,924480E+08	5,453915E+08	9,819578E+08	1,317141E+09	1,317123E+09	9,819146E+08	5,453497E+08
-409	1,924199E+08	1,772670E+07	0,000000E+00	0,000000E+00	1,772970E+07	1,924345E+08	5,453605E+08	9,819054E+08	1,317087E+09	1,317084E+09	9,818998E+08	5,453609E+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	1,924437E+08	1,773620E+07	0,000000E+00	0,000000E+00	1,773363E+07	1,924299E+08	5,453357E+08	9,818450E+08	1,317010E+09	1,317036E+09	9,819030E+08	5,453857E+08
-407	1,924578E+08	1,773940E+07	0,000000E+00	0,000000E+00	1,774239E+07	1,924668E+08	5,453866E+08	9,818953E+08	1,317017E+09	1,316982E+09	9,818191E+08	5,453237E+08
-406	1,924310E+08	1,773576E+07	0,000000E+00	0,000000E+00	1,773548E+07	1,924332E+08	5,453337E+08	9,818407E+08	1,317002E+09	1,317010E+09	9,818673E+08	5,453679E+08
-405	1,924641E+08	1,774446E+07	0,000000E+00	0,000000E+00	1,774060E+07	1,924487E+08	5,453540E+08	9,818478E+08	1,316985E+09	1,316988E+09	9,818531E+08	5,453562E+08
-404	1,924478E+08	1,773976E+07	0,000000E+00	0,000000E+00	1,774251E+07	1,924615E+08	5,453756E+08	9,818901E+08	1,317032E+09	1,317004E+09	9,818255E+08	5,453224E+08
-403	1,924333E+08	1,773614E+07	0,000000E+00	0,000000E+00	1,773336E+07	1,924247E+08	5,453217E+08	9,818371E+08	1,317028E+09	1,317065E+09	9,819178E+08	5,453877E+08
-402	1,924615E+08	1,774051E+07	0,000000E+00	0,000000E+00	1,773959E+07	1,924573E+08	5,453795E+08	9,819046E+08	1,317063E+09	1,317060E+09	9,818909E+08	5,453529E+08
-401	1,924263E+08	1,772975E+07	0,000000E+00	0,000000E+00	1,773208E+07	1,924418E+08	5,453776E+08	9,819352E+08	1,317116E+09	1,317101E+09	9,819071E+08	5,453585E+08
-400	1,924322E+08	1,772881E+07	0,000000E+00	0,000000E+00	1,772511E+07	1,924157E+08	5,453452E+08	9,819094E+08	1,317120E+09	1,317147E+09	9,819733E+08	5,454046E+08
-399	1,924499E+08	1,773126E+07	0,000000E+00	0,000000E+00	1,773134E+07	1,924485E+08	5,454041E+08	9,819890E+08	1,317176E+09	1,317153E+09	9,819337E+08	5,453515E+08
-398	1,924125E+08	1,772140E+07	0,000000E+00	0,000000E+00	1,772045E+07	1,924154E+08	5,453641E+08	9,819630E+08	1,317196E+09	1,317204E+09	9,819877E+08	5,453894E+08
-397	1,924359E+08	1,772706E+07	0,000000E+00	0,000000E+00	1,772356E+07	1,924223E+08	5,453722E+08	9,819535E+08	1,317166E+09	1,317184E+09	9,819897E+08	5,453970E+08
-396	1,924326E+08	1,772519E+07	0,000000E+00	0,000000E+00	1,772865E+07	1,924475E+08	5,454118E+08	9,820057E+08	1,317196E+09	1,317164E+09	9,819302E+08	5,453457E+08
-395	1,924101E+08	1,772031E+07	0,000000E+00	0,000000E+00	1,772065E+07	1,924125E+08	5,453541E+08	9,819393E+08	1,317163E+09	1,317181E+09	9,819847E+08	5,454003E+08
-394	1,924477E+08	1,773152E+07	0,000000E+00	0,000000E+00	1,773068E+07	1,924401E+08	5,453857E+08	9,819532E+08	1,317137E+09	1,317125E+09	9,819336E+08	5,453699E+08
-393	1,924283E+08	1,772741E+07	0,000000E+00	0,000000E+00	1,773089E+07	1,924428E+08	5,453838E+08	9,819474E+08	1,317123E+09	1,317092E+09	9,818836E+08	5,453421E+08
-392	1,924302E+08	1,773180E+07	0,000000E+00	0,000000E+00	1,773007E+07	1,924180E+08	5,453198E+08	9,818413E+08	1,317029E+09	1,317060E+09	9,819143E+08	5,453897E+08
-391	1,924662E+08	1,774257E+07	0,000000E+00	0,000000E+00	1,774291E+07	1,924624E+08	5,453702E+08	9,818635E+08	1,316990E+09	1,316978E+09	9,818291E+08	5,453302E+08
-390	1,924341E+08	1,773771E+07	0,000000E+00	0,000000E+00	1,774041E+07	1,924483E+08	5,453408E+08	9,818209E+08	1,316951E+09	1,316946E+09	9,818136E+08	5,453415E+08
-389	1,924580E+08	1,774661E+07	0,000000E+00	0,000000E+00	1,774396E+07	1,924456E+08	5,453226E+08	9,817699E+08	1,316883E+09	1,316898E+09	9,818063E+08	5,453577E+08
-388	1,924703E+08	1,774972E+07	0,000000E+00	0,000000E+00	1,775267E+07	1,924803E+08	5,453693E+08	9,818225E+08	1,316905E+09	1,316865E+09	9,817323E+08	5,452944E+08
-387	1,924406E+08	1,774527E+07	0,000000E+00	0,000000E+00	1,774529E+07	1,924438E+08	5,453092E+08	9,817595E+08	1,316887E+09	1,316899E+09	9,817944E+08	5,453475E+08
-386	1,924745E+08	1,775351E+07	0,000000E+00	0,000000E+00	1,775023E+07	1,924597E+08	5,453287E+08	9,817710E+08	1,316883E+09	1,316889E+09	9,817878E+08	5,453387E+08
-385	1,924579E+08	1,774828E+07	0,000000E+00	0,000000E+00	1,775139E+07	1,924733E+08	5,453568E+08	9,818146E+08	1,316920E+09	1,316900E+09	9,817638E+08	5,453075E+08
-384	1,924420E+08	1,774340E+07	0,000000E+00	0,000000E+00	1,774137E+07	1,924352E+08	5,453031E+08	9,817595E+08	1,316904E+09	1,316944E+09	9,818463E+08	5,453729E+08
-383	1,924738E+08	1,774862E+07	0,000000E+00	0,000000E+00	1,774686E+07	1,924662E+08	5,453644E+08	9,818394E+08	1,316951E+09	1,316945E+09	9,818209E+08	5,453375E+08
-382	1,924390E+08	1,773858E+07	0,000000E+00	0,000000E+00	1,773954E+07	1,924485E+08	5,453563E+08	9,818682E+08	1,317017E+09	1,317000E+09	9,818394E+08	5,453419E+08
-381	1,924446E+08	1,773771E+07	0,000000E+00	0,000000E+00	1,773316E+07	1,924260E+08	5,453272E+08	9,818379E+08	1,317011E+09	1,317036E+09	9,818945E+08	5,453792E+08
-380	1,924599E+08	1,774043E+07	0,000000E+00	0,000000E+00	1,774061E+07	1,924615E+08	5,453871E+08	9,819158E+08	1,317066E+09	1,317045E+09	9,818583E+08	5,453259E+08
-379	1,924200E+08	1,772965E+07	0,000000E+00	0,000000E+00	1,773009E+07	1,924295E+08	5,453481E+08	9,818877E+08	1,317075E+09	1,317087E+09	9,819134E+08	5,453698E+08
-378	1,924449E+08	1,773522E+07	0,000000E+00	0,000000E+00	1,773318E+07	1,924355E+08	5,453572E+08	9,818909E+08	1,317065E+09	1,317074E+09	9,819152E+08	5,453775E+08
-377	1,924439E+08	1,773394E+07	0,000000E+00	0,000000E+00	1,773753E+07	1,924586E+08	5,453950E+08	9,819388E+08	1,317092E+09	1,317056E+09	9,818574E+08	5,453264E+08
-376	1,924216E+08	1,772945E+07	0,000000E+00	0,000000E+00	1,772956E+07	1,924209E+08	5,453265E+08	9,818507E+08	1,317035E+09	1,317057E+09	9,819045E+08	5,453813E+08
-375	1,924638E+08	1,774247E+07	0,000000E+00	0,000000E+00	1,773997E+07	1,924486E+08	5,453559E+08	9,818573E+08	1,316996E+09	1,316995E+09	9,818558E+08	5,453520E+08
-374	1,924443E+08	1,773920E+07	0,000000E+00	0,000000E+00	1,774158E+07	1,924537E+08	5,453510E+08	9,818423E+08	1,316974E+09	1,316954E+09	9,818008E+08	5,453240E+08
-373	1,924455E+08	1,774319E+07	0,000000E+00	0,000000E+00	1,774156E+07	1,924357E+08	5,453005E+08	9,817420E+08	1,316869E+09	1,316900E+09	9,818108E+08	5,453613E+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°
-372	1,924790E+08	1,775354E+07	0,000000E+00	0,000000E+00	1,775458E+07	1,924801E+08	5,453555E+08	9,817786E+08	1,316845E+09	1,316825E+09	9,817250E+08	5,452989E+08
-371	1,924449E+08	1,774791E+07	0,000000E+00	0,000000E+00	1,775152E+07	1,924632E+08	5,453231E+08	9,817416E+08	1,316820E+09	1,316806E+09	9,817186E+08	5,453153E+08
-370	1,924699E+08	1,775663E+07	0,000000E+00	0,000000E+00	1,775432E+07	1,924576E+08	5,453016E+08	9,817006E+08	1,316782E+09	1,316787E+09	9,817248E+08	5,453329E+08
-369	1,924818E+08	1,775974E+07	0,000000E+00	0,000000E+00	1,776232E+07	1,924911E+08	5,453465E+08	9,817459E+08	1,316798E+09	1,316765E+09	9,816660E+08	5,452749E+08
-368	1,924505E+08	1,775432E+07	0,000000E+00	0,000000E+00	1,775456E+07	1,924547E+08	5,452838E+08	9,816713E+08	1,316761E+09	1,316786E+09	9,817277E+08	5,453330E+08
-367	1,924871E+08	1,776250E+07	0,000000E+00	0,000000E+00	1,775878E+07	1,924710E+08	5,453109E+08	9,816934E+08	1,316758E+09	1,316774E+09	9,817242E+08	5,453271E+08
-366	1,924705E+08	1,775714E+07	0,000000E+00	0,000000E+00	1,775964E+07	1,924825E+08	5,453378E+08	9,817444E+08	1,316809E+09	1,316789E+09	9,816970E+08	5,452953E+08
-365	1,924548E+08	1,775172E+07	0,000000E+00	0,000000E+00	1,774926E+07	1,924469E+08	5,452907E+08	9,816954E+08	1,316796E+09	1,316826E+09	9,817643E+08	5,453492E+08
-364	1,924843E+08	1,775720E+07	0,000000E+00	0,000000E+00	1,775489E+07	1,924755E+08	5,453477E+08	9,817748E+08	1,316851E+09	1,316840E+09	9,817437E+08	5,453109E+08
-363	1,924469E+08	1,774672E+07	0,000000E+00	0,000000E+00	1,774794E+07	1,924576E+08	5,453350E+08	9,817964E+08	1,316911E+09	1,316897E+09	9,817708E+08	5,453213E+08
-362	1,924529E+08	1,774579E+07	0,000000E+00	0,000000E+00	1,774216E+07	1,924374E+08	5,453077E+08	9,817720E+08	1,316918E+09	1,316940E+09	9,818290E+08	5,453591E+08
-361	1,924678E+08	1,774837E+07	0,000000E+00	0,000000E+00	1,774936E+07	1,924740E+08	5,453722E+08	9,818470E+08	1,316959E+09	1,316941E+09	9,817946E+08	5,453097E+08
-360	1,924288E+08	1,773733E+07	0,000000E+00	0,000000E+00	1,773852E+07	1,924400E+08	5,453295E+08	9,818120E+08	1,316953E+09	1,316965E+09	9,818392E+08	5,453547E+08
-359	1,924589E+08	1,774447E+07	0,000000E+00	0,000000E+00	1,774127E+07	1,924433E+08	5,453355E+08	9,818145E+08	1,316943E+09	1,316953E+09	9,818416E+08	5,453623E+08
-358	1,924596E+08	1,774463E+07	0,000000E+00	0,000000E+00	1,774636E+07	1,924651E+08	5,453648E+08	9,818513E+08	1,316969E+09	1,316936E+09	9,817809E+08	5,453096E+08
-357	1,924376E+08	1,774061E+07	0,000000E+00	0,000000E+00	1,773993E+07	1,924342E+08	5,453014E+08	9,817540E+08	1,316890E+09	1,316915E+09	9,818101E+08	5,453539E+08
-356	1,924770E+08	1,775381E+07	0,000000E+00	0,000000E+00	1,775149E+07	1,924647E+08	5,453337E+08	9,817613E+08	1,316848E+09	1,316850E+09	9,817595E+08	5,453226E+08
-355	1,924545E+08	1,774950E+07	0,000000E+00	0,000000E+00	1,775362E+07	1,924720E+08	5,453341E+08	9,817532E+08	1,316826E+09	1,316804E+09	9,817050E+08	5,452985E+08
-354	1,924565E+08	1,775311E+07	0,000000E+00	0,000000E+00	1,775309E+07	1,924525E+08	5,452869E+08	9,816745E+08	1,316754E+09	1,316768E+09	9,817172E+08	5,453334E+08
-353	1,924893E+08	1,776326E+07	0,000000E+00	0,000000E+00	1,776489E+07	1,924942E+08	5,453407E+08	9,817106E+08	1,316735E+09	1,316708E+09	9,816434E+08	5,452755E+08
-352	1,924558E+08	1,775758E+07	0,000000E+00	0,000000E+00	1,776109E+07	1,924729E+08	5,452982E+08	9,816590E+08	1,316700E+09	1,316688E+09	9,816415E+08	5,452960E+08
-351	1,924840E+08	1,776699E+07	0,000000E+00	0,000000E+00	1,776338E+07	1,924659E+08	5,452739E+08	9,816128E+08	1,316656E+09	1,316674E+09	9,816601E+08	5,453191E+08
-350	1,924965E+08	1,777053E+07	0,000000E+00	0,000000E+00	1,777187E+07	1,925003E+08	5,453165E+08	9,816522E+08	1,316669E+09	1,316649E+09	9,816008E+08	5,452644E+08
-349	1,924651E+08	1,776412E+07	0,000000E+00	0,000000E+00	1,776421E+07	1,924691E+08	5,452649E+08	9,815821E+08	1,316619E+09	1,316646E+09	9,816414E+08	5,453122E+08
-348	1,924994E+08	1,777179E+07	0,000000E+00	0,000000E+00	1,776791E+07	1,924829E+08	5,452942E+08	9,816187E+08	1,316633E+09	1,316642E+09	9,816365E+08	5,453031E+08
-347	1,924809E+08	1,776568E+07	0,000000E+00	0,000000E+00	1,776835E+07	1,924925E+08	5,453187E+08	9,816745E+08	1,316697E+09	1,316669E+09	9,816154E+08	5,452731E+08
-346	1,924649E+08	1,776005E+07	0,000000E+00	0,000000E+00	1,775745E+07	1,924554E+08	5,452719E+08	9,816390E+08	1,316713E+09	1,316731E+09	9,816910E+08	5,453241E+08
-345	1,924919E+08	1,776539E+07	0,000000E+00	0,000000E+00	1,776303E+07	1,924855E+08	5,453302E+08	9,817119E+08	1,316760E+09	1,316753E+09	9,816846E+08	5,452919E+08
-344	1,924540E+08	1,775432E+07	0,000000E+00	0,000000E+00	1,775608E+07	1,924683E+08	5,453161E+08	9,817230E+08	1,316802E+09	1,316794E+09	9,817088E+08	5,453063E+08
-343	1,924629E+08	1,775377E+07	0,000000E+00	0,000000E+00	1,775025E+07	1,924487E+08	5,452938E+08	9,817041E+08	1,316805E+09	1,316835E+09	9,817697E+08	5,453477E+08
-342	1,924797E+08	1,775715E+07	0,000000E+00	0,000000E+00	1,775762E+07	1,924829E+08	5,453526E+08	9,817777E+08	1,316852E+09	1,316833E+09	9,817287E+08	5,452984E+08
-341	1,924428E+08	1,774645E+07	0,000000E+00	0,000000E+00	1,774741E+07	1,924522E+08	5,453116E+08	9,817358E+08	1,316833E+09	1,316838E+09	9,817524E+08	5,453313E+08
-340	1,924720E+08	1,775465E+07	0,000000E+00	0,000000E+00	1,775084E+07	1,924533E+08	5,453111E+08	9,817310E+08	1,316818E+09	1,316827E+09	9,817544E+08	5,453366E+08
-339	1,924711E+08	1,775473E+07	0,000000E+00	0,000000E+00	1,775695E+07	1,924769E+08	5,453367E+08	9,817573E+08	1,316830E+09	1,316802E+09	9,816948E+08	5,452865E+08
-338	1,924491E+08	1,775081E+07	0,000000E+00	0,000000E+00	1,775138E+07	1,924499E+08	5,452806E+08	9,816714E+08	1,316762E+09	1,316780E+09	9,817192E+08	5,453267E+08
-337	1,924863E+08	1,776350E+07	0,000000E+00	0,000000E+00	1,776262E+07	1,924820E+08	5,453195E+08	9,816806E+08	1,316714E+09	1,316713E+09	9,816707E+08	5,452984E+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	1,924645E+08	1,775890E+07	0,000000E+00	0,000000E+00	1,776404E+07	1,924862E+08	5,453162E+08	9,816716E+08	1,316690E+09	1,316661E+09	9,816123E+08	5,452762E+08
-335	1,924709E+08	1,776364E+07	0,000000E+00	0,000000E+00	1,776271E+07	1,924632E+08	5,452655E+08	9,815945E+08	1,316628E+09	1,316642E+09	9,816367E+08	5,453143E+08
-334	1,925050E+08	1,777477E+07	0,000000E+00	0,000000E+00	1,777442E+07	1,925015E+08	5,453091E+08	9,816211E+08	1,316613E+09	1,316592E+09	9,815697E+08	5,452607E+08
-333	1,924729E+08	1,776925E+07	0,000000E+00	0,000000E+00	1,777158E+07	1,924857E+08	5,452709E+08	9,815620E+08	1,316560E+09	1,316556E+09	9,815570E+08	5,452744E+08
-332	1,924983E+08	1,777812E+07	0,000000E+00	0,000000E+00	1,777395E+07	1,924791E+08	5,452493E+08	9,815197E+08	1,316517E+09	1,316542E+09	9,815757E+08	5,452969E+08
-331	1,925075E+08	1,778004E+07	0,000000E+00	0,000000E+00	1,778223E+07	1,925141E+08	5,452968E+08	9,815685E+08	1,316534E+09	1,316515E+09	9,815182E+08	5,452452E+08
-330	1,924762E+08	1,777281E+07	0,000000E+00	0,000000E+00	1,777376E+07	1,924823E+08	5,452519E+08	9,815245E+08	1,316520E+09	1,316530E+09	9,815578E+08	5,452869E+08
-329	1,925073E+08	1,777961E+07	0,000000E+00	0,000000E+00	1,777621E+07	1,924942E+08	5,452804E+08	9,815600E+08	1,316540E+09	1,316542E+09	9,815651E+08	5,452812E+08
-328	1,924886E+08	1,777330E+07	0,000000E+00	0,000000E+00	1,777599E+07	1,925003E+08	5,452979E+08	9,816060E+08	1,316597E+09	1,316570E+09	9,815495E+08	5,452551E+08
-327	1,924753E+08	1,776830E+07	0,000000E+00	0,000000E+00	1,776502E+07	1,924635E+08	5,452503E+08	9,815670E+08	1,316609E+09	1,316639E+09	9,816367E+08	5,453103E+08
-326	1,925020E+08	1,777408E+07	0,000000E+00	0,000000E+00	1,777119E+07	1,924946E+08	5,453079E+08	9,816360E+08	1,316653E+09	1,316655E+09	9,816280E+08	5,452826E+08
-325	1,924662E+08	1,776275E+07	0,000000E+00	0,000000E+00	1,776479E+07	1,924823E+08	5,453023E+08	9,816485E+08	1,316679E+09	1,316670E+09	9,816304E+08	5,452874E+08
-324	1,924740E+08	1,776244E+07	0,000000E+00	0,000000E+00	1,775893E+07	1,924596E+08	5,452777E+08	9,816353E+08	1,316691E+09	1,316712E+09	9,816858E+08	5,453259E+08
-323	1,924906E+08	1,776579E+07	0,000000E+00	0,000000E+00	1,776650E+07	1,924920E+08	5,453299E+08	9,817025E+08	1,316737E+09	1,316712E+09	9,816466E+08	5,452779E+08
-322	1,924551E+08	1,775583E+07	0,000000E+00	0,000000E+00	1,775692E+07	1,924624E+08	5,452895E+08	9,816667E+08	1,316729E+09	1,316724E+09	9,816685E+08	5,453044E+08
-321	1,924815E+08	1,776413E+07	0,000000E+00	0,000000E+00	1,776097E+07	1,924667E+08	5,452897E+08	9,816496E+08	1,316699E+09	1,316710E+09	9,816775E+08	5,453144E+08
-320	1,924806E+08	1,776395E+07	0,000000E+00	0,000000E+00	1,776721E+07	1,924912E+08	5,453158E+08	9,816684E+08	1,316692E+09	1,316667E+09	9,816115E+08	5,452665E+08
-319	1,924615E+08	1,776068E+07	0,000000E+00	0,000000E+00	1,776153E+07	1,924641E+08	5,452640E+08	9,815905E+08	1,316628E+09	1,316649E+09	9,816391E+08	5,453077E+08
-318	1,924999E+08	1,777412E+07	0,000000E+00	0,000000E+00	1,777250E+07	1,924933E+08	5,452977E+08	9,816010E+08	1,316591E+09	1,316586E+09	9,815884E+08	5,452815E+08
-317	1,924810E+08	1,777005E+07	0,000000E+00	0,000000E+00	1,777433E+07	1,924992E+08	5,452931E+08	9,815830E+08	1,316556E+09	1,316522E+09	9,815170E+08	5,452504E+08
-316	1,924861E+08	1,777551E+07	0,000000E+00	0,000000E+00	1,777326E+07	1,924734E+08	5,452365E+08	9,815012E+08	1,316494E+09	1,316510E+09	9,815475E+08	5,452903E+08
-315	1,925188E+08	1,778595E+07	0,000000E+00	0,000000E+00	1,778564E+07	1,925133E+08	5,452771E+08	9,815193E+08	1,316470E+09	1,316457E+09	9,814862E+08	5,452416E+08
-314	1,924867E+08	1,777998E+07	0,000000E+00	0,000000E+00	1,778307E+07	1,925007E+08	5,452487E+08	9,814769E+08	1,316429E+09	1,316422E+09	9,814696E+08	5,452504E+08
-313	1,925081E+08	1,778731E+07	0,000000E+00	0,000000E+00	1,778446E+07	1,924952E+08	5,452343E+08	9,814412E+08	1,316387E+09	1,316412E+09	9,814932E+08	5,452754E+08
-312	1,925168E+08	1,778836E+07	0,000000E+00	0,000000E+00	1,779119E+07	1,925254E+08	5,452784E+08	9,814930E+08	1,316411E+09	1,316386E+09	9,814340E+08	5,452242E+08
-311	1,924880E+08	1,778158E+07	0,000000E+00	0,000000E+00	1,778176E+07	1,924913E+08	5,452335E+08	9,814553E+08	1,316413E+09	1,316424E+09	9,814872E+08	5,452670E+08
-310	1,925186E+08	1,778883E+07	0,000000E+00	0,000000E+00	1,778400E+07	1,925011E+08	5,452565E+08	9,814888E+08	1,316442E+09	1,316448E+09	9,815022E+08	5,452662E+08
-309	1,925012E+08	1,778245E+07	0,000000E+00	0,000000E+00	1,778464E+07	1,925130E+08	5,452791E+08	9,815299E+08	1,316485E+09	1,316462E+09	9,814781E+08	5,452351E+08
-308	1,924855E+08	1,777711E+07	0,000000E+00	0,000000E+00	1,777384E+07	1,924762E+08	5,452358E+08	9,814985E+08	1,316501E+09	1,316531E+09	9,815659E+08	5,452920E+08
-307	1,925106E+08	1,778170E+07	0,000000E+00	0,000000E+00	1,778004E+07	1,925066E+08	5,452933E+08	9,815708E+08	1,316546E+09	1,316544E+09	9,815582E+08	5,452676E+08
-306	1,924768E+08	1,777051E+07	0,000000E+00	0,000000E+00	1,777327E+07	1,924933E+08	5,452904E+08	9,815992E+08	1,316593E+09	1,316568E+09	9,815545E+08	5,452644E+08
-305	1,924820E+08	1,777003E+07	0,000000E+00	0,000000E+00	1,776722E+07	1,924699E+08	5,452607E+08	9,815719E+08	1,316596E+09	1,316613E+09	9,816164E+08	5,453052E+08
-304	1,924994E+08	1,777387E+07	0,000000E+00	0,000000E+00	1,777457E+07	1,924990E+08	5,453030E+08	9,816209E+08	1,316621E+09	1,316602E+09	9,815750E+08	5,452595E+08
-303	1,924675E+08	1,776525E+07	0,000000E+00	0,000000E+00	1,776604E+07	1,924730E+08	5,452637E+08	9,815772E+08	1,316602E+09	1,316610E+09	9,815996E+08	5,452872E+08
-302	1,924942E+08	1,777438E+07	0,000000E+00	0,000000E+00	1,777075E+07	1,924785E+08	5,452644E+08	9,815569E+08	1,316563E+09	1,316582E+09	9,815994E+08	5,452994E+08
-301	1,924961E+08	1,777444E+07	0,000000E+00	0,000000E+00	1,777776E+07	1,925074E+08	5,452975E+08	9,815775E+08	1,316542E+09	1,316514E+09	9,815131E+08	5,452426E+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	1,924764E+08	1,777193E+07	0,000000E+00	0,000000E+00	1,777208E+07	1,924769E+08	5,452431E+08	9,815066E+08	1,316492E+09	1,316502E+09	9,815377E+08	5,452808E+08
-299	1,925131E+08	1,778489E+07	0,000000E+00	0,000000E+00	1,778314E+07	1,925042E+08	5,452702E+08	9,815111E+08	1,316458E+09	1,316450E+09	9,814954E+08	5,452575E+08
-298	1,924959E+08	1,778152E+07	0,000000E+00	0,000000E+00	1,778559E+07	1,925118E+08	5,452688E+08	9,815023E+08	1,316435E+09	1,316397E+09	9,814272E+08	5,452219E+08
-297	1,924969E+08	1,778611E+07	0,000000E+00	0,000000E+00	1,778481E+07	1,924895E+08	5,452139E+08	9,814110E+08	1,316362E+09	1,316385E+09	9,814675E+08	5,452679E+08
-296	1,925287E+08	1,779547E+07	0,000000E+00	0,000000E+00	1,779629E+07	1,925280E+08	5,452556E+08	9,814282E+08	1,316328E+09	1,316321E+09	9,814032E+08	5,452229E+08
-295	1,924996E+08	1,778955E+07	0,000000E+00	0,000000E+00	1,779318E+07	1,925151E+08	5,452321E+08	9,813967E+08	1,316300E+09	1,316297E+09	9,813920E+08	5,452319E+08
-294	1,925208E+08	1,779682E+07	0,000000E+00	0,000000E+00	1,779331E+07	1,925056E+08	5,452144E+08	9,813680E+08	1,316275E+09	1,316295E+09	9,814160E+08	5,452585E+08
-293	1,925309E+08	1,779788E+07	0,000000E+00	0,000000E+00	1,779983E+07	1,925365E+08	5,452585E+08	9,814162E+08	1,316293E+09	1,316265E+09	9,813511E+08	5,452007E+08
-292	1,925003E+08	1,779138E+07	0,000000E+00	0,000000E+00	1,779025E+07	1,925000E+08	5,452112E+08	9,813817E+08	1,316306E+09	1,316316E+09	9,814119E+08	5,452446E+08
-291	1,925276E+08	1,779741E+07	0,000000E+00	0,000000E+00	1,779305E+07	1,925118E+08	5,452337E+08	9,814110E+08	1,316331E+09	1,316343E+09	9,814352E+08	5,452495E+08
-290	1,925116E+08	1,779094E+07	0,000000E+00	0,000000E+00	1,779381E+07	1,925261E+08	5,452667E+08	9,814700E+08	1,316385E+09	1,316358E+09	9,814070E+08	5,452137E+08
-289	1,924924E+08	1,778428E+07	0,000000E+00	0,000000E+00	1,778252E+07	1,924899E+08	5,452257E+08	9,814395E+08	1,316401E+09	1,316428E+09	9,814982E+08	5,452741E+08
-288	1,925186E+08	1,778872E+07	0,000000E+00	0,000000E+00	1,778739E+07	1,925141E+08	5,452737E+08	9,815039E+08	1,316442E+09	1,316436E+09	9,814869E+08	5,452512E+08
-287	1,924892E+08	1,777883E+07	0,000000E+00	0,000000E+00	1,778064E+07	1,924997E+08	5,452661E+08	9,815238E+08	1,316489E+09	1,316471E+09	9,814912E+08	5,452479E+08
-286	1,924951E+08	1,777965E+07	0,000000E+00	0,000000E+00	1,777527E+07	1,924764E+08	5,452315E+08	9,814875E+08	1,316483E+09	1,316510E+09	9,815514E+08	5,452912E+08
-285	1,925143E+08	1,778400E+07	0,000000E+00	0,000000E+00	1,778405E+07	1,925117E+08	5,452777E+08	9,815252E+08	1,316481E+09	1,316470E+09	9,814919E+08	5,452379E+08
-284	1,924806E+08	1,777576E+07	0,000000E+00	0,000000E+00	1,777637E+07	1,924879E+08	5,452460E+08	9,814924E+08	1,316465E+09	1,316471E+09	9,815082E+08	5,452632E+08
-283	1,925050E+08	1,778395E+07	0,000000E+00	0,000000E+00	1,778162E+07	1,924940E+08	5,452477E+08	9,814774E+08	1,316431E+09	1,316443E+09	9,815067E+08	5,452756E+08
-282	1,925091E+08	1,778452E+07	0,000000E+00	0,000000E+00	1,778848E+07	1,925223E+08	5,452842E+08	9,815129E+08	1,316429E+09	1,316385E+09	9,814172E+08	5,452121E+08
-281	1,924862E+08	1,778179E+07	0,000000E+00	0,000000E+00	1,778294E+07	1,924914E+08	5,452248E+08	9,814305E+08	1,316375E+09	1,316383E+09	9,814536E+08	5,452554E+08
-280	1,925234E+08	1,779471E+07	0,000000E+00	0,000000E+00	1,779331E+07	1,925144E+08	5,452409E+08	9,814173E+08	1,316324E+09	1,316323E+09	9,814142E+08	5,452372E+08
-279	1,925101E+08	1,779232E+07	0,000000E+00	0,000000E+00	1,779653E+07	1,925251E+08	5,452408E+08	9,814015E+08	1,316295E+09	1,316274E+09	9,813535E+08	5,452045E+08
-278	1,925112E+08	1,779705E+07	0,000000E+00	0,000000E+00	1,779549E+07	1,925032E+08	5,451893E+08	9,813144E+08	1,316217E+09	1,316250E+09	9,813876E+08	5,452531E+08
-277	1,925446E+08	1,780590E+07	0,000000E+00	0,000000E+00	1,780650E+07	1,925424E+08	5,452349E+08	9,813362E+08	1,316178E+09	1,316168E+09	9,813061E+08	5,451995E+08
-276	1,925145E+08	1,780035E+07	0,000000E+00	0,000000E+00	1,780280E+07	1,925263E+08	5,452118E+08	9,813180E+08	1,316172E+09	1,316158E+09	9,812958E+08	5,452060E+08
-275	1,925329E+08	1,780653E+07	0,000000E+00	0,000000E+00	1,780255E+07	1,925152E+08	5,451905E+08	9,812897E+08	1,316160E+09	1,316176E+09	9,813323E+08	5,452346E+08
-274	1,925433E+08	1,780780E+07	0,000000E+00	0,000000E+00	1,780921E+07	1,925478E+08	5,452415E+08	9,813529E+08	1,316194E+09	1,316161E+09	9,812757E+08	5,451749E+08
-273	1,925078E+08	1,779988E+07	0,000000E+00	0,000000E+00	1,779978E+07	1,925147E+08	5,451979E+08	9,813159E+08	1,316206E+09	1,316220E+09	9,813494E+08	5,452251E+08
-272	1,925335E+08	1,780445E+07	0,000000E+00	0,000000E+00	1,780126E+07	1,925232E+08	5,452192E+08	9,813447E+08	1,316226E+09	1,316241E+09	9,813734E+08	5,452355E+08
-271	1,925220E+08	1,779847E+07	0,000000E+00	0,000000E+00	1,780166E+07	1,925364E+08	5,452522E+08	9,814070E+08	1,316291E+09	1,316268E+09	9,813512E+08	5,452007E+08
-270	1,925037E+08	1,779221E+07	0,000000E+00	0,000000E+00	1,778959E+07	1,924966E+08	5,452047E+08	9,813728E+08	1,316306E+09	1,316334E+09	9,814374E+08	5,452620E+08
-269	1,925324E+08	1,779738E+07	0,000000E+00	0,000000E+00	1,779481E+07	1,925208E+08	5,452474E+08	9,814218E+08	1,316325E+09	1,316323E+09	9,814136E+08	5,452324E+08
-268	1,925029E+08	1,778868E+07	0,000000E+00	0,000000E+00	1,778912E+07	1,925076E+08	5,452393E+08	9,814390E+08	1,316366E+09	1,316351E+09	9,814130E+08	5,452270E+08
-267	1,925057E+08	1,778882E+07	0,000000E+00	0,000000E+00	1,778520E+07	1,924891E+08	5,452075E+08	9,813978E+08	1,316349E+09	1,316382E+09	9,814705E+08	5,452703E+08
-266	1,925260E+08	1,779354E+07	0,000000E+00	0,000000E+00	1,779455E+07	1,925285E+08	5,452678E+08	9,814556E+08	1,316355E+09	1,316336E+09	9,814013E+08	5,452102E+08
-265	1,924888E+08	1,778450E+07	0,000000E+00	0,000000E+00	1,778705E+07	1,925054E+08	5,452369E+08	9,814250E+08	1,316344E+09	1,316340E+09	9,814188E+08	5,452361E+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°
-264	1,925131E+08	1,779252E+07	0,000000E+00	0,000000E+00	1,779109E+07	1,925052E+08	5,452281E+08	9,814020E+08	1,316310E+09	1,316314E+09	9,814180E+08	5,452512E+08
-263	1,925221E+08	1,779468E+07	0,000000E+00	0,000000E+00	1,779829E+07	1,925326E+08	5,452581E+08	9,814262E+08	1,316310E+09	1,316274E+09	9,813420E+08	5,451910E+08
-262	1,925008E+08	1,779315E+07	0,000000E+00	0,000000E+00	1,779325E+07	1,925018E+08	5,451948E+08	9,813355E+08	1,316245E+09	1,316263E+09	9,813795E+08	5,452399E+08
-261	1,925403E+08	1,780616E+07	0,000000E+00	0,000000E+00	1,780414E+07	1,925280E+08	5,452123E+08	9,813116E+08	1,316169E+09	1,316178E+09	9,813269E+08	5,452177E+08
-260	1,925265E+08	1,780412E+07	0,000000E+00	0,000000E+00	1,780765E+07	1,925396E+08	5,452189E+08	9,813081E+08	1,316145E+09	1,316123E+09	9,812593E+08	5,451831E+08
-259	1,925249E+08	1,780750E+07	0,000000E+00	0,000000E+00	1,780641E+07	1,925177E+08	5,451692E+08	9,812287E+08	1,316079E+09	1,316106E+09	9,812931E+08	5,452296E+08
-258	1,925587E+08	1,781636E+07	0,000000E+00	0,000000E+00	1,781662E+07	1,925557E+08	5,452205E+08	9,812688E+08	1,316062E+09	1,316038E+09	9,812113E+08	5,451685E+08
-257	1,925236E+08	1,780987E+07	0,000000E+00	0,000000E+00	1,781286E+07	1,925397E+08	5,451952E+08	9,812480E+08	1,316064E+09	1,316047E+09	9,812167E+08	5,451792E+08
-256	1,925402E+08	1,781504E+07	0,000000E+00	0,000000E+00	1,781151E+07	1,925249E+08	5,451668E+08	9,812116E+08	1,316047E+09	1,316068E+09	9,812619E+08	5,452145E+08
-255	1,925537E+08	1,781677E+07	0,000000E+00	0,000000E+00	1,781847E+07	1,925597E+08	5,452197E+08	9,812711E+08	1,316083E+09	1,316066E+09	9,812193E+08	5,451617E+08
-254	1,925193E+08	1,780872E+07	0,000000E+00	0,000000E+00	1,780832E+07	1,925259E+08	5,451804E+08	9,812428E+08	1,316094E+09	1,316117E+09	9,812904E+08	5,452159E+08
-253	1,925468E+08	1,781279E+07	0,000000E+00	0,000000E+00	1,780904E+07	1,925322E+08	5,451992E+08	9,812686E+08	1,316105E+09	1,316119E+09	9,812983E+08	5,452190E+08
-252	1,925355E+08	1,780762E+07	0,000000E+00	0,000000E+00	1,780915E+07	1,925427E+08	5,452297E+08	9,813352E+08	1,316180E+09	1,316151E+09	9,812733E+08	5,451813E+08
-251	1,925149E+08	1,780078E+07	0,000000E+00	0,000000E+00	1,779782E+07	1,925046E+08	5,451802E+08	9,812952E+08	1,316194E+09	1,316223E+09	9,813625E+08	5,452411E+08
-250	1,925440E+08	1,780660E+07	0,000000E+00	0,000000E+00	1,780380E+07	1,925321E+08	5,452302E+08	9,813529E+08	1,316214E+09	1,316210E+09	9,813355E+08	5,452058E+08
-249	1,925098E+08	1,779698E+07	0,000000E+00	0,000000E+00	1,779927E+07	1,925248E+08	5,452289E+08	9,813705E+08	1,316252E+09	1,316237E+09	9,813376E+08	5,452030E+08
-248	1,925113E+08	1,779630E+07	0,000000E+00	0,000000E+00	1,779460E+07	1,925034E+08	5,451956E+08	9,813303E+08	1,316232E+09	1,316260E+09	9,813903E+08	5,452482E+08
-247	1,925357E+08	1,780201E+07	0,000000E+00	0,000000E+00	1,780392E+07	1,925418E+08	5,452536E+08	9,813880E+08	1,316249E+09	1,316229E+09	9,813289E+08	5,451909E+08
-246	1,925012E+08	1,779407E+07	0,000000E+00	0,000000E+00	1,779599E+07	1,925153E+08	5,452165E+08	9,813523E+08	1,316237E+09	1,316232E+09	9,813465E+08	5,452191E+08
-245	1,925280E+08	1,780287E+07	0,000000E+00	0,000000E+00	1,780023E+07	1,925131E+08	5,451978E+08	9,813080E+08	1,316177E+09	1,316188E+09	9,813369E+08	5,452310E+08
-244	1,925384E+08	1,780654E+07	0,000000E+00	0,000000E+00	1,780852E+07	1,925420E+08	5,452256E+08	9,813255E+08	1,316167E+09	1,316137E+09	9,812577E+08	5,451720E+08
-243	1,925155E+08	1,780455E+07	0,000000E+00	0,000000E+00	1,780502E+07	1,925165E+08	5,451661E+08	9,812294E+08	1,316089E+09	1,316116E+09	9,812900E+08	5,452202E+08
-242	1,925560E+08	1,781753E+07	0,000000E+00	0,000000E+00	1,781575E+07	1,925449E+08	5,451966E+08	9,812258E+08	1,316020E+09	1,316024E+09	9,812262E+08	5,451897E+08
-241	1,925379E+08	1,781443E+07	0,000000E+00	0,000000E+00	1,781930E+07	1,925571E+08	5,452050E+08	9,812294E+08	1,316008E+09	1,315976E+09	9,811608E+08	5,451542E+08
-240	1,925345E+08	1,781693E+07	0,000000E+00	0,000000E+00	1,781617E+07	1,925288E+08	5,451475E+08	9,811490E+08	1,315953E+09	1,315972E+09	9,811997E+08	5,452020E+08
-239	1,925705E+08	1,782648E+07	0,000000E+00	0,000000E+00	1,782628E+07	1,925664E+08	5,451960E+08	9,811865E+08	1,315950E+09	1,315935E+09	9,811397E+08	5,451474E+08
-238	1,925361E+08	1,782025E+07	0,000000E+00	0,000000E+00	1,782229E+07	1,925504E+08	5,451716E+08	9,811671E+08	1,315952E+09	1,315944E+09	9,811527E+08	5,451642E+08
-237	1,925527E+08	1,782446E+07	0,000000E+00	0,000000E+00	1,782065E+07	1,925368E+08	5,451453E+08	9,811271E+08	1,315921E+09	1,315950E+09	9,811917E+08	5,451989E+08
-236	1,925665E+08	1,782633E+07	0,000000E+00	0,000000E+00	1,782742E+07	1,925711E+08	5,452032E+08	9,812002E+08	1,315966E+09	1,315947E+09	9,811474E+08	5,451474E+08
-235	1,925305E+08	1,781695E+07	0,000000E+00	0,000000E+00	1,781697E+07	1,925366E+08	5,451631E+08	9,811754E+08	1,315987E+09	1,316005E+09	9,812170E+08	5,451989E+08
-234	1,925587E+08	1,782117E+07	0,000000E+00	0,000000E+00	1,781694E+07	1,925413E+08	5,451855E+08	9,812111E+08	1,316007E+09	1,316012E+09	9,812217E+08	5,451943E+08
-233	1,925431E+08	1,781549E+07	0,000000E+00	0,000000E+00	1,781763E+07	1,925528E+08	5,452119E+08	9,812691E+08	1,316080E+09	1,316050E+09	9,812033E+08	5,451577E+08
-232	1,925208E+08	1,780810E+07	0,000000E+00	0,000000E+00	1,780603E+07	1,925141E+08	5,451581E+08	9,812201E+08	1,316082E+09	1,316113E+09	9,812912E+08	5,452200E+08
-231	1,925524E+08	1,781477E+07	0,000000E+00	0,000000E+00	1,781293E+07	1,925452E+08	5,452118E+08	9,812750E+08	1,316103E+09	1,316109E+09	9,812713E+08	5,451895E+08
-230	1,925206E+08	1,780564E+07	0,000000E+00	0,000000E+00	1,780816E+07	1,925378E+08	5,452154E+08	9,813018E+08	1,316139E+09	1,316123E+09	9,812671E+08	5,451881E+08
-229	1,925242E+08	1,780524E+07	0,000000E+00	0,000000E+00	1,780318E+07	1,925133E+08	5,451756E+08	9,812536E+08	1,316109E+09	1,316130E+09	9,813064E+08	5,452282E+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	1,925504E+08	1,781257E+07	0,000000E+00	0,000000E+00	1,781265E+07	1,925491E+08	5,452278E+08	9,813074E+08	1,316128E+09	1,316101E+09	9,812450E+08	5,451713E+08
-227	1,925157E+08	1,780493E+07	0,000000E+00	0,000000E+00	1,780618E+07	1,925250E+08	5,451863E+08	9,812594E+08	1,316106E+09	1,316106E+09	9,812643E+08	5,451987E+08
-226	1,925436E+08	1,781451E+07	0,000000E+00	0,000000E+00	1,781125E+07	1,925266E+08	5,451748E+08	9,812177E+08	1,316038E+09	1,316052E+09	9,812484E+08	5,452050E+08
-225	1,925494E+08	1,781724E+07	0,000000E+00	0,000000E+00	1,782074E+07	1,925607E+08	5,452083E+08	9,812359E+08	1,316023E+09	1,315995E+09	9,811679E+08	5,451471E+08
-224	1,925253E+08	1,781427E+07	0,000000E+00	0,000000E+00	1,781644E+07	1,925331E+08	5,451491E+08	9,811450E+08	1,315946E+09	1,315967E+09	9,811930E+08	5,451948E+08
-223	1,925682E+08	1,782755E+07	0,000000E+00	0,000000E+00	1,782659E+07	1,925596E+08	5,451765E+08	9,811429E+08	1,315894E+09	1,315896E+09	9,811389E+08	5,451664E+08
-222	1,925513E+08	1,782503E+07	0,000000E+00	0,000000E+00	1,782922E+07	1,925688E+08	5,451840E+08	9,811507E+08	1,315889E+09	1,315854E+09	9,810794E+08	5,451337E+08
-221	1,925485E+08	1,782739E+07	0,000000E+00	0,000000E+00	1,782558E+07	1,925376E+08	5,451188E+08	9,810579E+08	1,315821E+09	1,315845E+09	9,811172E+08	5,451795E+08
-220	1,925838E+08	1,783752E+07	0,000000E+00	0,000000E+00	1,783599E+07	1,925762E+08	5,451685E+08	9,810970E+08	1,315820E+09	1,315808E+09	9,810638E+08	5,451308E+08
-219	1,925488E+08	1,783036E+07	0,000000E+00	0,000000E+00	1,783271E+07	1,925642E+08	5,451503E+08	9,810814E+08	1,315823E+09	1,315822E+09	9,810787E+08	5,451485E+08
-218	1,925657E+08	1,783379E+07	0,000000E+00	0,000000E+00	1,783005E+07	1,925505E+08	5,451347E+08	9,810613E+08	1,315802E+09	1,315825E+09	9,811096E+08	5,451761E+08
-217	1,925752E+08	1,783451E+07	0,000000E+00	0,000000E+00	1,783653E+07	1,925836E+08	5,451902E+08	9,811387E+08	1,315862E+09	1,315832E+09	9,810692E+08	5,451246E+08
-216	1,925382E+08	1,782433E+07	0,000000E+00	0,000000E+00	1,782462E+07	1,925441E+08	5,451420E+08	9,811082E+08	1,315885E+09	1,315896E+09	9,811407E+08	5,451765E+08
-215	1,925680E+08	1,782928E+07	0,000000E+00	0,000000E+00	1,782493E+07	1,925491E+08	5,451601E+08	9,811365E+08	1,315911E+09	1,315925E+09	9,811618E+08	5,451773E+08
-214	1,925536E+08	1,782414E+07	0,000000E+00	0,000000E+00	1,782578E+07	1,925629E+08	5,451920E+08	9,811970E+08	1,315976E+09	1,315954E+09	9,811453E+08	5,451447E+08
-213	1,925317E+08	1,781636E+07	0,000000E+00	0,000000E+00	1,781430E+07	1,925252E+08	5,451402E+08	9,811440E+08	1,315963E+09	1,315998E+09	9,812204E+08	5,452028E+08
-212	1,925636E+08	1,782380E+07	0,000000E+00	0,000000E+00	1,782150E+07	1,925563E+08	5,451969E+08	9,812086E+08	1,315990E+09	1,315988E+09	9,811958E+08	5,451738E+08
-211	1,925327E+08	1,781464E+07	0,000000E+00	0,000000E+00	1,781726E+07	1,925492E+08	5,451977E+08	9,812328E+08	1,316030E+09	1,316007E+09	9,811881E+08	5,451684E+08
-210	1,925371E+08	1,781496E+07	0,000000E+00	0,000000E+00	1,781232E+07	1,925241E+08	5,451594E+08	9,811851E+08	1,315997E+09	1,316012E+09	9,812221E+08	5,452021E+08
-209	1,925603E+08	1,782226E+07	0,000000E+00	0,000000E+00	1,782304E+07	1,925614E+08	5,452048E+08	9,812251E+08	1,316006E+09	1,315980E+09	9,811645E+08	5,451476E+08
-208	1,925252E+08	1,781452E+07	0,000000E+00	0,000000E+00	1,781696E+07	1,925378E+08	5,451586E+08	9,811635E+08	1,315965E+09	1,315970E+09	9,811787E+08	5,451769E+08
-207	1,925559E+08	1,782489E+07	0,000000E+00	0,000000E+00	1,782278E+07	1,925425E+08	5,451501E+08	9,811201E+08	1,315897E+09	1,315921E+09	9,811673E+08	5,451869E+08
-206	1,925636E+08	1,782785E+07	0,000000E+00	0,000000E+00	1,783154E+07	1,925756E+08	5,451893E+08	9,811488E+08	1,315881E+09	1,315851E+09	9,810781E+08	5,451276E+08
-205	1,925404E+08	1,782491E+07	0,000000E+00	0,000000E+00	1,782649E+07	1,925442E+08	5,451244E+08	9,810541E+08	1,315801E+09	1,315814E+09	9,810919E+08	5,451687E+08
-204	1,925832E+08	1,783915E+07	0,000000E+00	0,000000E+00	1,783637E+07	1,925689E+08	5,451493E+08	9,810550E+08	1,315761E+09	1,315754E+09	9,810445E+08	5,451428E+08
-203	1,925659E+08	1,783649E+07	0,000000E+00	0,000000E+00	1,783991E+07	1,925802E+08	5,451558E+08	9,810592E+08	1,315758E+09	1,315727E+09	9,809946E+08	5,451112E+08
-202	1,925627E+08	1,783863E+07	0,000000E+00	0,000000E+00	1,783630E+07	1,925525E+08	5,451020E+08	9,809775E+08	1,315693E+09	1,315718E+09	9,810337E+08	5,451546E+08
-201	1,925930E+08	1,784714E+07	0,000000E+00	0,000000E+00	1,784702E+07	1,925933E+08	5,451553E+08	9,810230E+08	1,315699E+09	1,315687E+09	9,809865E+08	5,451102E+08
-200	1,925576E+08	1,783870E+07	0,000000E+00	0,000000E+00	1,784230E+07	1,925773E+08	5,451348E+08	9,810128E+08	1,315710E+09	1,315703E+09	9,810006E+08	5,451287E+08
-199	1,925759E+08	1,784195E+07	0,000000E+00	0,000000E+00	1,783870E+07	1,925608E+08	5,451140E+08	9,809930E+08	1,315709E+09	1,315732E+09	9,810439E+08	5,451592E+08
-198	1,925864E+08	1,784296E+07	0,000000E+00	0,000000E+00	1,784395E+07	1,925904E+08	5,451682E+08	9,810704E+08	1,315766E+09	1,315739E+09	9,810072E+08	5,451095E+08
-197	1,925498E+08	1,783269E+07	0,000000E+00	0,000000E+00	1,783193E+07	1,925496E+08	5,451138E+08	9,810263E+08	1,315771E+09	1,315788E+09	9,810718E+08	5,451585E+08
-196	1,925795E+08	1,783846E+07	0,000000E+00	0,000000E+00	1,783313E+07	1,925581E+08	5,451357E+08	9,810550E+08	1,315791E+09	1,315809E+09	9,810933E+08	5,451637E+08
-195	1,925651E+08	1,783301E+07	0,000000E+00	0,000000E+00	1,783514E+07	1,925767E+08	5,451754E+08	9,811206E+08	1,315855E+09	1,315836E+09	9,810727E+08	5,451291E+08
-194	1,925439E+08	1,782520E+07	0,000000E+00	0,000000E+00	1,782338E+07	1,925398E+08	5,451337E+08	9,810840E+08	1,315849E+09	1,315873E+09	9,811356E+08	5,451777E+08
-193	1,925714E+08	1,783204E+07	0,000000E+00	0,000000E+00	1,783086E+07	1,925693E+08	5,451842E+08	9,811470E+08	1,315886E+09	1,315872E+09	9,811134E+08	5,451489E+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	1,925415E+08	1,782306E+07	0,000000E+00	0,000000E+00	1,782613E+07	1,925586E+08	5,451752E+08	9,811590E+08	1,315922E+09	1,315893E+09	9,811069E+08	5,451445E+08
-191	1,925479E+08	1,782444E+07	0,000000E+00	0,000000E+00	1,782217E+07	1,925344E+08	5,451298E+08	9,810980E+08	1,315885E+09	1,315908E+09	9,811522E+08	5,451837E+08
-190	1,925730E+08	1,783239E+07	0,000000E+00	0,000000E+00	1,783301E+07	1,925738E+08	5,451807E+08	9,811365E+08	1,315877E+09	1,315860E+09	9,810920E+08	5,451328E+08
-189	1,925395E+08	1,782469E+07	0,000000E+00	0,000000E+00	1,782736E+07	1,925512E+08	5,451354E+08	9,810693E+08	1,315817E+09	1,315824E+09	9,810888E+08	5,451568E+08
-188	1,925707E+08	1,783585E+07	0,000000E+00	0,000000E+00	1,783316E+07	1,925556E+08	5,451288E+08	9,810336E+08	1,315754E+09	1,315769E+09	9,810729E+08	5,451672E+08
-187	1,925791E+08	1,783889E+07	0,000000E+00	0,000000E+00	1,784226E+07	1,925889E+08	5,451669E+08	9,810625E+08	1,315747E+09	1,315711E+09	9,809834E+08	5,451034E+08
-186	1,925558E+08	1,783640E+07	0,000000E+00	0,000000E+00	1,783692E+07	1,925570E+08	5,451056E+08	9,809725E+08	1,315671E+09	1,315677E+09	9,809944E+08	5,451368E+08
-185	1,925929E+08	1,784977E+07	0,000000E+00	0,000000E+00	1,784756E+07	1,925827E+08	5,451259E+08	9,809691E+08	1,315634E+09	1,315627E+09	9,809568E+08	5,451153E+08
-184	1,925757E+08	1,784660E+07	0,000000E+00	0,000000E+00	1,785101E+07	1,925945E+08	5,451313E+08	9,809685E+08	1,315626E+09	1,315599E+09	9,809116E+08	5,450891E+08
-183	1,925739E+08	1,784839E+07	0,000000E+00	0,000000E+00	1,784727E+07	1,925680E+08	5,450810E+08	9,808940E+08	1,315573E+09	1,315605E+09	9,809617E+08	5,451387E+08
-182	1,926055E+08	1,785640E+07	0,000000E+00	0,000000E+00	1,785627E+07	1,926054E+08	5,451389E+08	9,809516E+08	1,315583E+09	1,315570E+09	9,809144E+08	5,450966E+08
-181	1,925715E+08	1,784769E+07	0,000000E+00	0,000000E+00	1,785033E+07	1,925842E+08	5,451095E+08	9,809334E+08	1,315591E+09	1,315582E+09	9,809215E+08	5,451097E+08
-180	1,925893E+08	1,785148E+07	0,000000E+00	0,000000E+00	1,784637E+07	1,925667E+08	5,450866E+08	9,809128E+08	1,315593E+09	1,315617E+09	9,809715E+08	5,451426E+08
-179	1,925992E+08	1,785245E+07	0,000000E+00	0,000000E+00	1,785256E+07	1,925993E+08	5,451421E+08	9,809875E+08	1,315651E+09	1,315632E+09	9,809387E+08	5,450917E+08
-178	1,925615E+08	1,784183E+07	0,000000E+00	0,000000E+00	1,784090E+07	1,925641E+08	5,451031E+08	9,809578E+08	1,315657E+09	1,315673E+09	9,809952E+08	5,451340E+08
-177	1,925855E+08	1,784617E+07	0,000000E+00	0,000000E+00	1,784285E+07	1,925749E+08	5,451295E+08	9,809971E+08	1,315688E+09	1,315697E+09	9,810172E+08	5,451408E+08
-176	1,925721E+08	1,784018E+07	0,000000E+00	0,000000E+00	1,784388E+07	1,925898E+08	5,451648E+08	9,810636E+08	1,315757E+09	1,315726E+09	9,809958E+08	5,451076E+08
-175	1,925528E+08	1,783294E+07	0,000000E+00	0,000000E+00	1,783195E+07	1,925506E+08	5,451159E+08	9,810237E+08	1,315765E+09	1,315785E+09	9,810704E+08	5,451597E+08
-174	1,925821E+08	1,784047E+07	0,000000E+00	0,000000E+00	1,783864E+07	1,925763E+08	5,451615E+08	9,810763E+08	1,315787E+09	1,315776E+09	9,810500E+08	5,451338E+08
-173	1,925543E+08	1,783226E+07	0,000000E+00	0,000000E+00	1,783444E+07	1,925645E+08	5,451420E+08	9,810646E+08	1,315793E+09	1,315775E+09	9,810332E+08	5,451270E+08
-172	1,925620E+08	1,783503E+07	0,000000E+00	0,000000E+00	1,783194E+07	1,925454E+08	5,451003E+08	9,809982E+08	1,315740E+09	1,315772E+09	9,810737E+08	5,451696E+08
-171	1,925885E+08	1,784319E+07	0,000000E+00	0,000000E+00	1,784376E+07	1,925878E+08	5,451565E+08	9,810395E+08	1,315727E+09	1,315715E+09	9,810024E+08	5,451138E+08
-170	1,925559E+08	1,783589E+07	0,000000E+00	0,000000E+00	1,783827E+07	1,925674E+08	5,451218E+08	9,809871E+08	1,315671E+09	1,315667E+09	9,809816E+08	5,451258E+08
-169	1,925822E+08	1,784655E+07	0,000000E+00	0,000000E+00	1,784438E+07	1,925705E+08	5,451099E+08	9,809520E+08	1,315621E+09	1,315623E+09	9,809675E+08	5,451344E+08
-168	1,925905E+08	1,784953E+07	0,000000E+00	0,000000E+00	1,785309E+07	1,926013E+08	5,451411E+08	9,809734E+08	1,315614E+09	1,315575E+09	9,808874E+08	5,450741E+08
-167	1,925677E+08	1,784751E+07	0,000000E+00	0,000000E+00	1,784845E+07	1,925711E+08	5,450781E+08	9,808825E+08	1,315550E+09	1,315564E+09	9,809172E+08	5,451147E+08
-166	1,926047E+08	1,786021E+07	0,000000E+00	0,000000E+00	1,785830E+07	1,925977E+08	5,451062E+08	9,808845E+08	1,315507E+09	1,315509E+09	9,808848E+08	5,450996E+08
-165	1,925892E+08	1,785662E+07	0,000000E+00	0,000000E+00	1,786122E+07	1,926073E+08	5,451098E+08	9,808822E+08	1,315492E+09	1,315469E+09	9,808319E+08	5,450721E+08
-164	1,925883E+08	1,785852E+07	0,000000E+00	0,000000E+00	1,785679E+07	1,925797E+08	5,450603E+08	9,808150E+08	1,315447E+09	1,315476E+09	9,808837E+08	5,451239E+08
-163	1,926201E+08	1,786618E+07	0,000000E+00	0,000000E+00	1,786521E+07	1,926148E+08	5,451154E+08	9,808726E+08	1,315467E+09	1,315454E+09	9,808378E+08	5,450786E+08
-162	1,925858E+08	1,785751E+07	0,000000E+00	0,000000E+00	1,785902E+07	1,925945E+08	5,450913E+08	9,808585E+08	1,315473E+09	1,315462E+09	9,808392E+08	5,450831E+08
-161	1,925973E+08	1,786012E+07	0,000000E+00	0,000000E+00	1,785567E+07	1,925787E+08	5,450667E+08	9,808371E+08	1,315479E+09	1,315504E+09	9,808948E+08	5,451179E+08
-160	1,926069E+08	1,786050E+07	0,000000E+00	0,000000E+00	1,786176E+07	1,926128E+08	5,451251E+08	9,809121E+08	1,315535E+09	1,315520E+09	9,808661E+08	5,450715E+08
-159	1,925700E+08	1,784961E+07	0,000000E+00	0,000000E+00	1,785006E+07	1,925782E+08	5,450899E+08	9,808953E+08	1,315560E+09	1,315575E+09	9,809291E+08	5,451162E+08
-158	1,925941E+08	1,785354E+07	0,000000E+00	0,000000E+00	1,785055E+07	1,925855E+08	5,451185E+08	9,809430E+08	1,315596E+09	1,315599E+09	9,809513E+08	5,451250E+08
-157	1,925836E+08	1,784820E+07	0,000000E+00	0,000000E+00	1,785086E+07	1,925948E+08	5,451408E+08	9,809933E+08	1,315655E+09	1,315622E+09	9,809243E+08	5,450891E+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	1,925656E+08	1,784224E+07	0,000000E+00	0,000000E+00	1,783959E+07	1,925561E+08	5,450872E+08	9,809422E+08	1,315651E+09	1,315676E+09	9,810035E+08	5,451456E+08
-155	1,925964E+08	1,785059E+07	0,000000E+00	0,000000E+00	1,784758E+07	1,925846E+08	5,451315E+08	9,809843E+08	1,315661E+09	1,315662E+09	9,809812E+08	5,451190E+08
-154	1,925696E+08	1,784278E+07	0,000000E+00	0,000000E+00	1,784460E+07	1,925796E+08	5,451249E+08	9,809767E+08	1,315651E+09	1,315638E+09	9,809463E+08	5,451025E+08
-153	1,925723E+08	1,784484E+07	0,000000E+00	0,000000E+00	1,784328E+07	1,925631E+08	5,450868E+08	9,809184E+08	1,315604E+09	1,315630E+09	9,809782E+08	5,451423E+08
-152	1,925995E+08	1,785274E+07	0,000000E+00	0,000000E+00	1,785453E+07	1,926032E+08	5,451393E+08	9,809595E+08	1,315596E+09	1,315573E+09	9,809045E+08	5,450856E+08
-151	1,925674E+08	1,784604E+07	0,000000E+00	0,000000E+00	1,784923E+07	1,925817E+08	5,451008E+08	9,809104E+08	1,315559E+09	1,315547E+09	9,808934E+08	5,450983E+08
-150	1,925932E+08	1,785667E+07	0,000000E+00	0,000000E+00	1,785449E+07	1,925822E+08	5,450878E+08	9,808713E+08	1,315501E+09	1,315505E+09	9,808867E+08	5,451115E+08
-149	1,926033E+08	1,786015E+07	0,000000E+00	0,000000E+00	1,786335E+07	1,926114E+08	5,451098E+08	9,808742E+08	1,315475E+09	1,315444E+09	9,808056E+08	5,450540E+08
-148	1,925821E+08	1,785886E+07	0,000000E+00	0,000000E+00	1,785951E+07	1,925853E+08	5,450528E+08	9,807842E+08	1,315402E+09	1,315426E+09	9,808394E+08	5,451012E+08
-147	1,926207E+08	1,787119E+07	0,000000E+00	0,000000E+00	1,786907E+07	1,926116E+08	5,450844E+08	9,807933E+08	1,315365E+09	1,315372E+09	9,808025E+08	5,450838E+08
-146	1,926061E+08	1,786755E+07	0,000000E+00	0,000000E+00	1,787145E+07	1,926213E+08	5,450941E+08	9,808020E+08	1,315356E+09	1,315326E+09	9,807375E+08	5,450461E+08
-145	1,926000E+08	1,786843E+07	0,000000E+00	0,000000E+00	1,786671E+07	1,925918E+08	5,450400E+08	9,807378E+08	1,315327E+09	1,315348E+09	9,807922E+08	5,450956E+08
-144	1,926306E+08	1,787541E+07	0,000000E+00	0,000000E+00	1,787426E+07	1,926239E+08	5,450889E+08	9,807888E+08	1,315347E+09	1,315335E+09	9,807561E+08	5,450534E+08
-143	1,925957E+08	1,786670E+07	0,000000E+00	0,000000E+00	1,786862E+07	1,926066E+08	5,450692E+08	9,807844E+08	1,315372E+09	1,315363E+09	9,807723E+08	5,450628E+08
-142	1,926054E+08	1,786810E+07	0,000000E+00	0,000000E+00	1,786428E+07	1,925922E+08	5,450555E+08	9,807745E+08	1,315378E+09	1,315404E+09	9,808316E+08	5,451016E+08
-141	1,926162E+08	1,786819E+07	0,000000E+00	0,000000E+00	1,786957E+07	1,926225E+08	5,451098E+08	9,808474E+08	1,315430E+09	1,315413E+09	9,807994E+08	5,450561E+08
-140	1,925816E+08	1,785792E+07	0,000000E+00	0,000000E+00	1,785762E+07	1,925875E+08	5,450744E+08	9,808337E+08	1,315461E+09	1,315474E+09	9,808667E+08	5,451035E+08
-139	1,926066E+08	1,786218E+07	0,000000E+00	0,000000E+00	1,785790E+07	1,925915E+08	5,450954E+08	9,808726E+08	1,315497E+09	1,315504E+09	9,808883E+08	5,451100E+08
-138	1,925975E+08	1,785769E+07	0,000000E+00	0,000000E+00	1,785890E+07	1,926028E+08	5,451185E+08	9,809148E+08	1,315539E+09	1,315509E+09	9,808497E+08	5,450661E+08
-137	1,925752E+08	1,785149E+07	0,000000E+00	0,000000E+00	1,784950E+07	1,925684E+08	5,450632E+08	9,808554E+08	1,315524E+09	1,315554E+09	9,809229E+08	5,451220E+08
-136	1,926065E+08	1,785972E+07	0,000000E+00	0,000000E+00	1,785798E+07	1,925989E+08	5,451094E+08	9,808927E+08	1,315520E+09	1,315527E+09	9,808965E+08	5,450973E+08
-135	1,925808E+08	1,785222E+07	0,000000E+00	0,000000E+00	1,785568E+07	1,925964E+08	5,451093E+08	9,809005E+08	1,315527E+09	1,315507E+09	9,808605E+08	5,450795E+08
-134	1,925830E+08	1,785408E+07	0,000000E+00	0,000000E+00	1,785327E+07	1,925775E+08	5,450738E+08	9,808491E+08	1,315484E+09	1,315499E+09	9,808886E+08	5,451172E+08
-133	1,926117E+08	1,786267E+07	0,000000E+00	0,000000E+00	1,786383E+07	1,926121E+08	5,451134E+08	9,808736E+08	1,315467E+09	1,315441E+09	9,808135E+08	5,450604E+08
-132	1,925817E+08	1,785735E+07	0,000000E+00	0,000000E+00	1,785942E+07	1,925924E+08	5,450730E+08	9,808178E+08	1,315424E+09	1,315418E+09	9,808123E+08	5,450781E+08
-131	1,926079E+08	1,786820E+07	0,000000E+00	0,000000E+00	1,786530E+07	1,925946E+08	5,450601E+08	9,807747E+08	1,315364E+09	1,315378E+09	9,808088E+08	5,450936E+08
-130	1,926193E+08	1,787182E+07	0,000000E+00	0,000000E+00	1,787483E+07	1,926285E+08	5,450929E+08	9,807835E+08	1,315328E+09	1,315300E+09	9,807158E+08	5,450310E+08
-129	1,925947E+08	1,786964E+07	0,000000E+00	0,000000E+00	1,787133E+07	1,926024E+08	5,450367E+08	9,807027E+08	1,315265E+09	1,315284E+09	9,807457E+08	5,450769E+08
-128	1,926336E+08	1,788116E+07	0,000000E+00	0,000000E+00	1,787941E+07	1,926243E+08	5,450627E+08	9,807108E+08	1,315237E+09	1,315239E+09	9,807134E+08	5,450602E+08
-127	1,926190E+08	1,787763E+07	0,000000E+00	0,000000E+00	1,788147E+07	1,926321E+08	5,450698E+08	9,807250E+08	1,315247E+09	1,315214E+09	9,806586E+08	5,450223E+08
-126	1,926101E+08	1,787754E+07	0,000000E+00	0,000000E+00	1,787544E+07	1,926012E+08	5,450177E+08	9,806616E+08	1,315215E+09	1,315239E+09	9,807198E+08	5,450742E+08
-125	1,926406E+08	1,788435E+07	0,000000E+00	0,000000E+00	1,788265E+07	1,926319E+08	5,450612E+08	9,807014E+08	1,315223E+09	1,315220E+09	9,806856E+08	5,450358E+08
-124	1,926071E+08	1,787585E+07	0,000000E+00	0,000000E+00	1,787749E+07	1,926189E+08	5,450514E+08	9,807062E+08	1,315248E+09	1,315248E+09	9,807073E+08	5,450501E+08
-123	1,926175E+08	1,787678E+07	0,000000E+00	0,000000E+00	1,787262E+07	1,926033E+08	5,450413E+08	9,807086E+08	1,315269E+09	1,315295E+09	9,807642E+08	5,450875E+08
-122	1,926296E+08	1,787719E+07	0,000000E+00	0,000000E+00	1,787766E+07	1,926332E+08	5,450968E+08	9,807839E+08	1,315322E+09	1,315297E+09	9,807216E+08	5,450342E+08
-121	1,925917E+08	1,786661E+07	0,000000E+00	0,000000E+00	1,786612E+07	1,925969E+08	5,450551E+08	9,807666E+08	1,315359E+09	1,315367E+09	9,807893E+08	5,450791E+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	1,926161E+08	1,787066E+07	0,000000E+00	0,000000E+00	1,786639E+07	1,925995E+08	5,450690E+08	9,807914E+08	1,315384E+09	1,315397E+09	9,808176E+08	5,450890E+08
-119	1,926072E+08	1,786656E+07	0,000000E+00	0,000000E+00	1,786857E+07	1,926150E+08	5,450965E+08	9,808392E+08	1,315432E+09	1,315405E+09	9,807821E+08	5,450468E+08
-118	1,925834E+08	1,785960E+07	0,000000E+00	0,000000E+00	1,785912E+07	1,925840E+08	5,450525E+08	9,807873E+08	1,315408E+09	1,315436E+09	9,808489E+08	5,451032E+08
-117	1,926166E+08	1,786815E+07	0,000000E+00	0,000000E+00	1,786705E+07	1,926103E+08	5,450915E+08	9,808171E+08	1,315396E+09	1,315397E+09	9,808139E+08	5,450777E+08
-116	1,925938E+08	1,786183E+07	0,000000E+00	0,000000E+00	1,786513E+07	1,926090E+08	5,450921E+08	9,808256E+08	1,315403E+09	1,315380E+09	9,807797E+08	5,450604E+08
-115	1,925971E+08	1,786458E+07	0,000000E+00	0,000000E+00	1,786266E+07	1,925868E+08	5,450497E+08	9,807672E+08	1,315362E+09	1,315378E+09	9,808075E+08	5,450955E+08
-114	1,926266E+08	1,787404E+07	0,000000E+00	0,000000E+00	1,787398E+07	1,926235E+08	5,450878E+08	9,807804E+08	1,315328E+09	1,315305E+09	9,807248E+08	5,450348E+08
-113	1,925945E+08	1,786890E+07	0,000000E+00	0,000000E+00	1,787131E+07	1,926075E+08	5,450473E+08	9,807207E+08	1,315280E+09	1,315279E+09	9,807208E+08	5,450533E+08
-112	1,926209E+08	1,787908E+07	0,000000E+00	0,000000E+00	1,787698E+07	1,926098E+08	5,450350E+08	9,806745E+08	1,315211E+09	1,315232E+09	9,807181E+08	5,450720E+08
-111	1,926333E+08	1,788279E+07	0,000000E+00	0,000000E+00	1,788655E+07	1,926438E+08	5,450726E+08	9,807017E+08	1,315197E+09	1,315162E+09	9,806268E+08	5,450092E+08
-110	1,926077E+08	1,787987E+07	0,000000E+00	0,000000E+00	1,788171E+07	1,926158E+08	5,450187E+08	9,806261E+08	1,315140E+09	1,315150E+09	9,806562E+08	5,450535E+08
-109	1,926465E+08	1,789120E+07	0,000000E+00	0,000000E+00	1,788832E+07	1,926308E+08	5,450310E+08	9,806187E+08	1,315105E+09	1,315110E+09	9,806278E+08	5,450376E+08
-108	1,926327E+08	1,788834E+07	0,000000E+00	0,000000E+00	1,789098E+07	1,926422E+08	5,450424E+08	9,806333E+08	1,315114E+09	1,315092E+09	9,805863E+08	5,450047E+08
-107	1,926233E+08	1,788780E+07	0,000000E+00	0,000000E+00	1,788480E+07	1,926128E+08	5,449954E+08	9,805774E+08	1,315092E+09	1,315124E+09	9,806494E+08	5,450568E+08
-106	1,926527E+08	1,789403E+07	0,000000E+00	0,000000E+00	1,789221E+07	1,926472E+08	5,450500E+08	9,806292E+08	1,315100E+09	1,315095E+09	9,806067E+08	5,450150E+08
-105	1,926169E+08	1,788468E+07	0,000000E+00	0,000000E+00	1,788718E+07	1,926339E+08	5,450421E+08	9,806482E+08	1,315146E+09	1,315134E+09	9,806268E+08	5,450271E+08
-104	1,926264E+08	1,788451E+07	0,000000E+00	0,000000E+00	1,788104E+07	1,926138E+08	5,450257E+08	9,806475E+08	1,315173E+09	1,315192E+09	9,806921E+08	5,450667E+08
-103	1,926386E+08	1,788526E+07	0,000000E+00	0,000000E+00	1,788602E+07	1,926415E+08	5,450775E+08	9,807261E+08	1,315239E+09	1,315209E+09	9,806591E+08	5,450153E+08
-102	1,925993E+08	1,787413E+07	0,000000E+00	0,000000E+00	1,787411E+07	1,926060E+08	5,450358E+08	9,807000E+08	1,315261E+09	1,315272E+09	9,807277E+08	5,450618E+08
-101	1,926246E+08	1,787852E+07	0,000000E+00	0,000000E+00	1,787445E+07	1,926070E+08	5,450410E+08	9,807044E+08	1,315262E+09	1,315285E+09	9,807513E+08	5,450746E+08
-100	1,926190E+08	1,787540E+07	0,000000E+00	0,000000E+00	1,787762E+07	1,926277E+08	5,450781E+08	9,807562E+08	1,315299E+09	1,315282E+09	9,807129E+08	5,450339E+08
-99	1,925969E+08	1,786895E+07	0,000000E+00	0,000000E+00	1,786807E+07	1,925956E+08	5,450359E+08	9,807143E+08	1,315287E+09	1,315310E+09	9,807680E+08	5,450848E+08
-98	1,926311E+08	1,787838E+07	0,000000E+00	0,000000E+00	1,787628E+07	1,926220E+08	5,450734E+08	9,807403E+08	1,315269E+09	1,315259E+09	9,807193E+08	5,450514E+08
-97	1,926068E+08	1,787259E+07	0,000000E+00	0,000000E+00	1,787536E+07	1,926203E+08	5,450683E+08	9,807431E+08	1,315279E+09	1,315248E+09	9,806843E+08	5,450313E+08
-96	1,926092E+08	1,787535E+07	0,000000E+00	0,000000E+00	1,787335E+07	1,925983E+08	5,450210E+08	9,806727E+08	1,315227E+09	1,315248E+09	9,807223E+08	5,450712E+08
-95	1,926386E+08	1,788504E+07	0,000000E+00	0,000000E+00	1,788570E+07	1,926385E+08	5,450645E+08	9,806938E+08	1,315199E+09	1,315177E+09	9,806439E+08	5,450135E+08
-94	1,926055E+08	1,787909E+07	0,000000E+00	0,000000E+00	1,788292E+07	1,926250E+08	5,450327E+08	9,806406E+08	1,315148E+09	1,315144E+09	9,806364E+08	5,450330E+08
-93	1,926335E+08	1,788918E+07	0,000000E+00	0,000000E+00	1,788734E+07	1,926215E+08	5,450104E+08	9,805858E+08	1,315074E+09	1,315093E+09	9,806306E+08	5,450525E+08
-92	1,926485E+08	1,789357E+07	0,000000E+00	0,000000E+00	1,789669E+07	1,926556E+08	5,450485E+08	9,806129E+08	1,315061E+09	1,315030E+09	9,805446E+08	5,449905E+08
-91	1,926233E+08	1,789096E+07	0,000000E+00	0,000000E+00	1,789130E+07	1,926248E+08	5,449917E+08	9,805381E+08	1,315012E+09	1,315024E+09	9,805734E+08	5,450323E+08
-90	1,926609E+08	1,790219E+07	0,000000E+00	0,000000E+00	1,789825E+07	1,926422E+08	5,450043E+08	9,805241E+08	1,314964E+09	1,314971E+09	9,805389E+08	5,450130E+08
-89	1,926443E+08	1,789888E+07	0,000000E+00	0,000000E+00	1,790197E+07	1,926578E+08	5,450224E+08	9,805472E+08	1,314980E+09	1,314959E+09	9,804981E+08	5,449802E+08
-88	1,926332E+08	1,789684E+07	0,000000E+00	0,000000E+00	1,789502E+07	1,926281E+08	5,449807E+08	9,805014E+08	1,314968E+09	1,314999E+09	9,805695E+08	5,450352E+08
-87	1,926620E+08	1,790258E+07	0,000000E+00	0,000000E+00	1,790180E+07	1,926606E+08	5,450393E+08	9,805761E+08	1,315007E+09	1,314988E+09	9,805329E+08	5,449947E+08
-86	1,926255E+08	1,789244E+07	0,000000E+00	0,000000E+00	1,789535E+07	1,926446E+08	5,450301E+08	9,805963E+08	1,315061E+09	1,315038E+09	9,805577E+08	5,450072E+08
-85	1,926352E+08	1,789218E+07	0,000000E+00	0,000000E+00	1,788794E+07	1,926174E+08	5,449972E+08	9,805736E+08	1,315074E+09	1,315097E+09	9,806286E+08	5,450502E+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												
-84	1,926497E+08	1,789385E+07	0,000000E+00	0,000000E+00	1,789377E+07	1,926487E+08	5,450511E+08	9,806444E+08	1,315126E+09	1,315112E+09	9,806043E+08	5,450043E+08
-83	1,926118E+08	1,788307E+07	0,000000E+00	0,000000E+00	1,788233E+07	1,926158E+08	5,450147E+08	9,806221E+08	1,315145E+09	1,315164E+09	9,806636E+08	5,450490E+08
-82	1,926373E+08	1,788764E+07	0,000000E+00	0,000000E+00	1,788343E+07	1,926201E+08	5,450249E+08	9,806266E+08	1,315133E+09	1,315154E+09	9,806706E+08	5,450562E+08
-81	1,926315E+08	1,788488E+07	0,000000E+00	0,000000E+00	1,788737E+07	1,926417E+08	5,450639E+08	9,806870E+08	1,315182E+09	1,315154E+09	9,806230E+08	5,450098E+08
-80	1,926087E+08	1,787823E+07	0,000000E+00	0,000000E+00	1,787754E+07	1,926068E+08	5,450152E+08	9,806382E+08	1,315170E+09	1,315187E+09	9,806809E+08	5,450580E+08
-79	1,926413E+08	1,788825E+07	0,000000E+00	0,000000E+00	1,788627E+07	1,926323E+08	5,450507E+08	9,806683E+08	1,315162E+09	1,315145E+09	9,806375E+08	5,450259E+08
-78	1,926165E+08	1,788235E+07	0,000000E+00	0,000000E+00	1,788589E+07	1,926338E+08	5,450464E+08	9,806617E+08	1,315158E+09	1,315128E+09	9,806039E+08	5,450081E+08
-77	1,926193E+08	1,788525E+07	0,000000E+00	0,000000E+00	1,788390E+07	1,926101E+08	5,449916E+08	9,805725E+08	1,315082E+09	1,315113E+09	9,806404E+08	5,450535E+08
-76	1,926526E+08	1,789563E+07	0,000000E+00	0,000000E+00	1,789686E+07	1,926542E+08	5,450437E+08	9,805983E+08	1,315046E+09	1,315036E+09	9,805636E+08	5,449995E+08
-75	1,926225E+08	1,789042E+07	0,000000E+00	0,000000E+00	1,789366E+07	1,926380E+08	5,450109E+08	9,805535E+08	1,315007E+09	1,315001E+09	9,805456E+08	5,450139E+08
-74	1,926507E+08	1,790084E+07	0,000000E+00	0,000000E+00	1,789783E+07	1,926336E+08	5,449841E+08	9,804910E+08	1,314928E+09	1,314941E+09	9,805294E+08	5,450260E+08
-73	1,926635E+08	1,790537E+07	0,000000E+00	0,000000E+00	1,790765E+07	1,926679E+08	5,450211E+08	9,805191E+08	1,314922E+09	1,314888E+09	9,804439E+08	5,449609E+08
-72	1,926358E+08	1,790184E+07	0,000000E+00	0,000000E+00	1,790226E+07	1,926382E+08	5,449656E+08	9,804449E+08	1,314875E+09	1,314891E+09	9,804844E+08	5,450050E+08
-71	1,926705E+08	1,791216E+07	0,000000E+00	0,000000E+00	1,790928E+07	1,926582E+08	5,449897E+08	9,804543E+08	1,314850E+09	1,314850E+09	9,804580E+08	5,449899E+08
-70	1,926526E+08	1,790748E+07	0,000000E+00	0,000000E+00	1,791219E+07	1,926749E+08	5,450162E+08	9,804906E+08	1,314878E+09	1,314848E+09	9,804232E+08	5,449598E+08
-69	1,926417E+08	1,790469E+07	0,000000E+00	0,000000E+00	1,790331E+07	1,926379E+08	5,449635E+08	9,804381E+08	1,314869E+09	1,314896E+09	9,805010E+08	5,450188E+08
-68	1,926731E+08	1,791086E+07	0,000000E+00	0,000000E+00	1,790955E+07	1,926690E+08	5,450200E+08	9,805078E+08	1,314908E+09	1,314897E+09	9,804774E+08	5,449833E+08
-67	1,926389E+08	1,790138E+07	0,000000E+00	0,000000E+00	1,790242E+07	1,926490E+08	5,450039E+08	9,805236E+08	1,314963E+09	1,314949E+09	9,805007E+08	5,449945E+08
-66	1,926481E+08	1,790123E+07	0,000000E+00	0,000000E+00	1,789587E+07	1,926249E+08	5,449677E+08	9,804847E+08	1,314952E+09	1,314984E+09	9,805595E+08	5,450342E+08
-65	1,926616E+08	1,790311E+07	0,000000E+00	0,000000E+00	1,790290E+07	1,926602E+08	5,450278E+08	9,805582E+08	1,314999E+09	1,314988E+09	9,805240E+08	5,449848E+08
-64	1,926230E+08	1,789162E+07	0,000000E+00	0,000000E+00	1,789173E+07	1,926294E+08	5,449985E+08	9,805453E+08	1,315019E+09	1,315035E+09	9,805807E+08	5,450273E+08
-63	1,926473E+08	1,789633E+07	0,000000E+00	0,000000E+00	1,789302E+07	1,926333E+08	5,450133E+08	9,805696E+08	1,315029E+09	1,315031E+09	9,805838E+08	5,450311E+08
-62	1,926406E+08	1,789334E+07	0,000000E+00	0,000000E+00	1,789660E+07	1,926547E+08	5,450505E+08	9,806255E+08	1,315081E+09	1,315040E+09	9,805395E+08	5,449834E+08
-61	1,926175E+08	1,788718E+07	0,000000E+00	0,000000E+00	1,788640E+07	1,926150E+08	5,449879E+08	9,805549E+08	1,315054E+09	1,315074E+09	9,806039E+08	5,450356E+08
-60	1,926523E+08	1,789802E+07	0,000000E+00	0,000000E+00	1,789620E+07	1,926445E+08	5,450253E+08	9,805757E+08	1,315031E+09	1,315030E+09	9,805697E+08	5,450106E+08
-59	1,926307E+08	1,789301E+07	0,000000E+00	0,000000E+00	1,789625E+07	1,926472E+08	5,450248E+08	9,805744E+08	1,315026E+09	1,315002E+09	9,805269E+08	5,449924E+08
-58	1,926346E+08	1,789617E+07	0,000000E+00	0,000000E+00	1,789498E+07	1,926254E+08	5,449703E+08	9,804806E+08	1,314935E+09	1,314963E+09	9,805468E+08	5,450335E+08
-57	1,926686E+08	1,790694E+07	0,000000E+00	0,000000E+00	1,790804E+07	1,926686E+08	5,450223E+08	9,805120E+08	1,314909E+09	1,314887E+09	9,804609E+08	5,449740E+08
-56	1,926377E+08	1,790152E+07	0,000000E+00	0,000000E+00	1,790470E+07	1,926508E+08	5,449859E+08	9,804628E+08	1,314869E+09	1,314860E+09	9,804487E+08	5,449858E+08
-55	1,926634E+08	1,791190E+07	0,000000E+00	0,000000E+00	1,790879E+07	1,926456E+08	5,449600E+08	9,804091E+08	1,314802E+09	1,314809E+09	9,804371E+08	5,449975E+08
-54	1,926737E+08	1,791560E+07	0,000000E+00	0,000000E+00	1,791875E+07	1,926833E+08	5,450003E+08	9,804342E+08	1,314794E+09	1,314761E+09	9,803583E+08	5,449353E+08
-53	1,926451E+08	1,791148E+07	0,000000E+00	0,000000E+00	1,791252E+07	1,926513E+08	5,449420E+08	9,803545E+08	1,314741E+09	1,314763E+09	9,804042E+08	5,449848E+08
-52	1,926814E+08	1,792141E+07	0,000000E+00	0,000000E+00	1,791914E+07	1,926727E+08	5,449744E+08	9,803767E+08	1,314726E+09	1,314733E+09	9,803884E+08	5,449760E+08
-51	1,926675E+08	1,791738E+07	0,000000E+00	0,000000E+00	1,792081E+07	1,926843E+08	5,449981E+08	9,804240E+08	1,314774E+09	1,314739E+09	9,803525E+08	5,449451E+08
-50	1,926565E+08	1,791441E+07	0,000000E+00	0,000000E+00	1,791144E+07	1,926451E+08	5,449369E+08	9,803577E+08	1,314754E+09	1,314781E+09	9,804251E+08	5,450006E+08
-49	1,926870E+08	1,792084E+07	0,000000E+00	0,000000E+00	1,791795E+07	1,926762E+08	5,449918E+08	9,804244E+08	1,314793E+09	1,314786E+09	9,804023E+08	5,449638E+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												
-48	1,926511E+08	1,791055E+07	0,000000E+00	0,000000E+00	1,791142E+07	1,926591E+08	5,449780E+08	9,804362E+08	1,314840E+09	1,314836E+09	9,804294E+08	5,449742E+08
-47	1,926570E+08	1,790964E+07	0,000000E+00	0,000000E+00	1,790537E+07	1,926389E+08	5,449547E+08	9,804193E+08	1,314841E+09	1,314868E+09	9,804841E+08	5,450129E+08
-46	1,926690E+08	1,791060E+07	0,000000E+00	0,000000E+00	1,791228E+07	1,926765E+08	5,450218E+08	9,805030E+08	1,314897E+09	1,314876E+09	9,804470E+08	5,449622E+08
-45	1,926303E+08	1,789890E+07	0,000000E+00	0,000000E+00	1,789991E+07	1,926401E+08	5,449832E+08	9,804825E+08	1,314918E+09	1,314926E+09	9,805040E+08	5,450049E+08
-44	1,926562E+08	1,790432E+07	0,000000E+00	0,000000E+00	1,790141E+07	1,926440E+08	5,449966E+08	9,805010E+08	1,314926E+09	1,314933E+09	9,805181E+08	5,450132E+08
-43	1,926534E+08	1,790291E+07	0,000000E+00	0,000000E+00	1,790487E+07	1,926621E+08	5,450262E+08	9,805495E+08	1,314973E+09	1,314937E+09	9,804720E+08	5,449666E+08
-42	1,926308E+08	1,789737E+07	0,000000E+00	0,000000E+00	1,789615E+07	1,926260E+08	5,449585E+08	9,804577E+08	1,314916E+09	1,314945E+09	9,805242E+08	5,450174E+08
-41	1,926666E+08	1,790881E+07	0,000000E+00	0,000000E+00	1,790693E+07	1,926586E+08	5,450016E+08	9,804798E+08	1,314885E+09	1,314888E+09	9,804792E+08	5,449907E+08
-40	1,926458E+08	1,790366E+07	0,000000E+00	0,000000E+00	1,790750E+07	1,926621E+08	5,450033E+08	9,804826E+08	1,314879E+09	1,314855E+09	9,804329E+08	5,449691E+08
-39	1,926488E+08	1,790714E+07	0,000000E+00	0,000000E+00	1,790625E+07	1,926396E+08	5,449520E+08	9,804049E+08	1,314805E+09	1,314818E+09	9,804466E+08	5,450057E+08
-38	1,926813E+08	1,791751E+07	0,000000E+00	0,000000E+00	1,791888E+07	1,926821E+08	5,450006E+08	9,804296E+08	1,314782E+09	1,314752E+09	9,803643E+08	5,449440E+08
-37	1,926488E+08	1,791219E+07	0,000000E+00	0,000000E+00	1,791514E+07	1,926614E+08	5,449555E+08	9,803657E+08	1,314731E+09	1,314726E+09	9,803594E+08	5,449596E+08
-36	1,926749E+08	1,792248E+07	0,000000E+00	0,000000E+00	1,791970E+07	1,926607E+08	5,449368E+08	9,803130E+08	1,314662E+09	1,314685E+09	9,803613E+08	5,449783E+08
-35	1,926877E+08	1,792647E+07	0,000000E+00	0,000000E+00	1,792904E+07	1,926972E+08	5,449824E+08	9,803528E+08	1,314667E+09	1,314638E+09	9,802836E+08	5,449197E+08
-34	1,926598E+08	1,792195E+07	0,000000E+00	0,000000E+00	1,792273E+07	1,926652E+08	5,449232E+08	9,802739E+08	1,314613E+09	1,314633E+09	9,803219E+08	5,449667E+08
-33	1,926959E+08	1,793159E+07	0,000000E+00	0,000000E+00	1,792852E+07	1,926839E+08	5,449544E+08	9,803020E+08	1,314611E+09	1,314612E+09	9,803042E+08	5,449553E+08
-32	1,926813E+08	1,792713E+07	0,000000E+00	0,000000E+00	1,792985E+07	1,926929E+08	5,449733E+08	9,803448E+08	1,314661E+09	1,314630E+09	9,802791E+08	5,449239E+08
-31	1,926674E+08	1,792358E+07	0,000000E+00	0,000000E+00	1,792048E+07	1,926544E+08	5,449150E+08	9,802874E+08	1,314646E+09	1,314672E+09	9,803517E+08	5,449780E+08
-30	1,926947E+08	1,792882E+07	0,000000E+00	0,000000E+00	1,792713E+07	1,926888E+08	5,449727E+08	9,803488E+08	1,314680E+09	1,314677E+09	9,803310E+08	5,449424E+08
-29	1,926577E+08	1,791796E+07	0,000000E+00	0,000000E+00	1,792008E+07	1,926712E+08	5,449602E+08	9,803586E+08	1,314718E+09	1,314719E+09	9,803576E+08	5,449556E+08
-28	1,926654E+08	1,791696E+07	0,000000E+00	0,000000E+00	1,791393E+07	1,926527E+08	5,449443E+08	9,803527E+08	1,314729E+09	1,314760E+09	9,804164E+08	5,449964E+08
-27	1,926814E+08	1,791922E+07	0,000000E+00	0,000000E+00	1,791982E+07	1,926852E+08	5,450072E+08	9,804442E+08	1,314802E+09	1,314773E+09	9,803765E+08	5,449450E+08
-26	1,926435E+08	1,790813E+07	0,000000E+00	0,000000E+00	1,790792E+07	1,926480E+08	5,449586E+08	9,804057E+08	1,314807E+09	1,314813E+09	9,804263E+08	5,449836E+08
-25	1,926689E+08	1,791431E+07	0,000000E+00	0,000000E+00	1,791024E+07	1,926526E+08	5,449703E+08	9,804178E+08	1,314809E+09	1,314818E+09	9,804389E+08	5,449915E+08
-24	1,926660E+08	1,791294E+07	0,000000E+00	0,000000E+00	1,791490E+07	1,926741E+08	5,450016E+08	9,804597E+08	1,314843E+09	1,314815E+09	9,803962E+08	5,449466E+08
-23	1,926424E+08	1,790740E+07	0,000000E+00	0,000000E+00	1,790717E+07	1,926418E+08	5,449443E+08	9,803841E+08	1,314788E+09	1,314812E+09	9,804385E+08	5,449950E+08
-22	1,926777E+08	1,791835E+07	0,000000E+00	0,000000E+00	1,791794E+07	1,926751E+08	5,449876E+08	9,804056E+08	1,314761E+09	1,314756E+09	9,803901E+08	5,449664E+08
-21	1,926575E+08	1,791352E+07	0,000000E+00	0,000000E+00	1,791781E+07	1,926743E+08	5,449795E+08	9,803953E+08	1,314747E+09	1,314721E+09	9,803427E+08	5,449442E+08
-20	1,926615E+08	1,791757E+07	0,000000E+00	0,000000E+00	1,791675E+07	1,926523E+08	5,449276E+08	9,803122E+08	1,314672E+09	1,314694E+09	9,803648E+08	5,449836E+08
-19	1,926967E+08	1,792909E+07	0,000000E+00	0,000000E+00	1,792894E+07	1,926920E+08	5,449716E+08	9,803354E+08	1,314647E+09	1,314624E+09	9,802821E+08	5,449235E+08
-18	1,926638E+08	1,792382E+07	0,000000E+00	0,000000E+00	1,792634E+07	1,926748E+08	5,449251E+08	9,802585E+08	1,314575E+09	1,314578E+09	9,802676E+08	5,449375E+08
-17	1,926894E+08	1,793385E+07	0,000000E+00	0,000000E+00	1,793095E+07	1,926765E+08	5,449167E+08	9,802205E+08	1,314515E+09	1,314536E+09	9,802664E+08	5,449559E+08
-16	1,927022E+08	1,793726E+07	0,000000E+00	0,000000E+00	1,794011E+07	1,927120E+08	5,449642E+08	9,802700E+08	1,314531E+09	1,314499E+09	9,801951E+08	5,448974E+08
-15	1,926730E+08	1,793232E+07	0,000000E+00	0,000000E+00	1,793310E+07	1,926781E+08	5,449083E+08	9,802091E+08	1,314500E+09	1,314507E+09	9,802339E+08	5,449411E+08
-14	1,927062E+08	1,794082E+07	0,000000E+00	0,000000E+00	1,793798E+07	1,926951E+08	5,449345E+08	9,802309E+08	1,314506E+09	1,314504E+09	9,802265E+08	5,449302E+08
-13	1,926900E+08	1,793589E+07	0,000000E+00	0,000000E+00	1,793856E+07	1,927010E+08	5,449451E+08	9,802596E+08	1,314544E+09	1,314522E+09	9,802099E+08	5,449036E+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°
-12	1,926760E+08	1,793168E+07	0,000000E+00	0,000000E+00	1,792942E+07	1,926675E+08	5,448967E+08	9,802072E+08	1,314531E+09	1,314571E+09	9,802913E+08	5,449634E+08
-11	1,927057E+08	1,793725E+07	0,000000E+00	0,000000E+00	1,793512E+07	1,926994E+08	5,449586E+08	9,802834E+08	1,314573E+09	1,314571E+09	9,802678E+08	5,449295E+08
-10	1,926696E+08	1,792625E+07	0,000000E+00	0,000000E+00	1,792827E+07	1,926823E+08	5,449445E+08	9,802918E+08	1,314608E+09	1,314603E+09	9,802824E+08	5,449378E+08
-9	1,926774E+08	1,792563E+07	0,000000E+00	0,000000E+00	1,792180E+07	1,926625E+08	5,449291E+08	9,802906E+08	1,314630E+09	1,314651E+09	9,803387E+08	5,449749E+08
-8	1,926930E+08	1,792825E+07	0,000000E+00	0,000000E+00	1,792809E+07	1,926930E+08	5,449853E+08	9,803721E+08	1,314698E+09	1,314671E+09	9,803075E+08	5,449243E+08
-7	1,926542E+08	1,791748E+07	0,000000E+00	0,000000E+00	1,791711E+07	1,926581E+08	5,449388E+08	9,803364E+08	1,314699E+09	1,314704E+09	9,803522E+08	5,449606E+08
-6	1,926773E+08	1,792307E+07	0,000000E+00	0,000000E+00	1,792028E+07	1,926664E+08	5,449504E+08	9,803370E+08	1,314689E+09	1,314701E+09	9,803634E+08	5,449697E+08
-5	1,926748E+08	1,792172E+07	0,000000E+00	0,000000E+00	1,792488E+07	1,926871E+08	5,449803E+08	9,803720E+08	1,314706E+09	1,314684E+09	9,803160E+08	5,449274E+08
-4	1,926540E+08	1,791669E+07	0,000000E+00	0,000000E+00	1,791773E+07	1,926572E+08	5,449277E+08	9,803010E+08	1,314655E+09	1,314683E+09	9,803572E+08	5,449769E+08
-3	1,926936E+08	1,792916E+07	0,000000E+00	0,000000E+00	1,792735E+07	1,926844E+08	5,449634E+08	9,803226E+08	1,314633E+09	1,314626E+09	9,803051E+08	5,449467E+08
-2	1,926740E+08	1,792509E+07	0,000000E+00	0,000000E+00	1,792815E+07	1,926845E+08	5,449476E+08	9,802936E+08	1,314599E+09	1,314577E+09	9,802485E+08	5,449197E+08
-1	1,926773E+08	1,792973E+07	0,000000E+00	0,000000E+00	1,792768E+07	1,926647E+08	5,448987E+08	9,802108E+08	1,314523E+09	1,314546E+09	9,802668E+08	5,449563E+08
1	1,927103E+08	1,794071E+07	0,000000E+00	0,000000E+00	1,794065E+07	1,927073E+08	5,449478E+08	9,802372E+08	1,314497E+09	1,314480E+09	9,801915E+08	5,448995E+08
2	1,926766E+08	1,793496E+07	0,000000E+00	0,000000E+00	1,793840E+07	1,926931E+08	5,449149E+08	9,801869E+08	1,314443E+09	1,314435E+09	9,801723E+08	5,449107E+08
3	1,926995E+08	1,794344E+07	0,000000E+00	0,000000E+00	1,794213E+07	1,926934E+08	5,449049E+08	9,801532E+08	1,314400E+09	1,314410E+09	9,801779E+08	5,449295E+08
4	1,927119E+08	1,794661E+07	0,000000E+00	0,000000E+00	1,794988E+07	1,927230E+08	5,449427E+08	9,801932E+08	1,314415E+09	1,314383E+09	9,801174E+08	5,448761E+08
5	1,926841E+08	1,794165E+07	0,000000E+00	0,000000E+00	1,794249E+07	1,926886E+08	5,448847E+08	9,801271E+08	1,314388E+09	1,314407E+09	9,801692E+08	5,449245E+08
6	1,927195E+08	1,795059E+07	0,000000E+00	0,000000E+00	1,794614E+07	1,927012E+08	5,449054E+08	9,801467E+08	1,314391E+09	1,314399E+09	9,801640E+08	5,449168E+08
7	1,927030E+08	1,794543E+07	0,000000E+00	0,000000E+00	1,794753E+07	1,927109E+08	5,449165E+08	9,801641E+08	1,314408E+09	1,314397E+09	9,801362E+08	5,448880E+08
8	1,926887E+08	1,794088E+07	0,000000E+00	0,000000E+00	1,793814E+07	1,926797E+08	5,448803E+08	9,801310E+08	1,314405E+09	1,314441E+09	9,802089E+08	5,449440E+08
9	1,927175E+08	1,794609E+07	0,000000E+00	0,000000E+00	1,794381E+07	1,927103E+08	5,449435E+08	9,802169E+08	1,314461E+09	1,314453E+09	9,801904E+08	5,449099E+08
10	1,926811E+08	1,793522E+07	0,000000E+00	0,000000E+00	1,793689E+07	1,926932E+08	5,449338E+08	9,802397E+08	1,314512E+09	1,314491E+09	9,802011E+08	5,449118E+08
11	1,926853E+08	1,793387E+07	0,000000E+00	0,000000E+00	1,793059E+07	1,926734E+08	5,449124E+08	9,802279E+08	1,314536E+09	1,314552E+09	9,802664E+08	5,449491E+08
12	1,926996E+08	1,793656E+07	0,000000E+00	0,000000E+00	1,793692E+07	1,927027E+08	5,449609E+08	9,802914E+08	1,314584E+09	1,314567E+09	9,802421E+08	5,449055E+08
13	1,926627E+08	1,792583E+07	0,000000E+00	0,000000E+00	1,792690E+07	1,926729E+08	5,449215E+08	9,802560E+08	1,314582E+09	1,314601E+09	9,802899E+08	5,449468E+08
14	1,926898E+08	1,793236E+07	0,000000E+00	0,000000E+00	1,792935E+07	1,926776E+08	5,449327E+08	9,802636E+08	1,314571E+09	1,314586E+09	9,802940E+08	5,449571E+08
15	1,926895E+08	1,793150E+07	0,000000E+00	0,000000E+00	1,793443E+07	1,926980E+08	5,449558E+08	9,802851E+08	1,314571E+09	1,314546E+09	9,802289E+08	5,449086E+08
16	1,926697E+08	1,792752E+07	0,000000E+00	0,000000E+00	1,792753E+07	1,926685E+08	5,449052E+08	9,802168E+08	1,314522E+09	1,314541E+09	9,802616E+08	5,449524E+08
17	1,927084E+08	1,794043E+07	0,000000E+00	0,000000E+00	1,793781E+07	1,926945E+08	5,449348E+08	9,802279E+08	1,314493E+09	1,314487E+09	9,802146E+08	5,449216E+08
18	1,926874E+08	1,793659E+07	0,000000E+00	0,000000E+00	1,793974E+07	1,926991E+08	5,449262E+08	9,802055E+08	1,314457E+09	1,314430E+09	9,801503E+08	5,448897E+08
19	1,926871E+08	1,794027E+07	0,000000E+00	0,000000E+00	1,793986E+07	1,926832E+08	5,448811E+08	9,801220E+08	1,314382E+09	1,314404E+09	9,801726E+08	5,449269E+08
20	1,927190E+08	1,795065E+07	0,000000E+00	0,000000E+00	1,795199E+07	1,927230E+08	5,449286E+08	9,801491E+08	1,314354E+09	1,314338E+09	9,801019E+08	5,448768E+08
21	1,926887E+08	1,794510E+07	0,000000E+00	0,000000E+00	1,794951E+07	1,927086E+08	5,448977E+08	9,801088E+08	1,314322E+09	1,314313E+09	9,800914E+08	5,448918E+08
22	1,927149E+08	1,795424E+07	0,000000E+00	0,000000E+00	1,795120E+07	1,927010E+08	5,448792E+08	9,800751E+08	1,314287E+09	1,314296E+09	9,801031E+08	5,449127E+08
23	1,927274E+08	1,795749E+07	0,000000E+00	0,000000E+00	1,795913E+07	1,927298E+08	5,449081E+08	9,800958E+08	1,314282E+09	1,314258E+09	9,800395E+08	5,448584E+08
24	1,926992E+08	1,795252E+07	0,000000E+00	0,000000E+00	1,795191E+07	1,926989E+08	5,448578E+08	9,800354E+08	1,314253E+09	1,314277E+09	9,800893E+08	5,449056E+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	1,927320E+08	1,796042E+07	0,000000E+00	0,000000E+00	1,795583E+07	1,927133E+08	5,448837E+08	9,800603E+08	1,314258E+09	1,314274E+09	9,800895E+08	5,448994E+08
26	1,927143E+08	1,795457E+07	0,000000E+00	0,000000E+00	1,795733E+07	1,927263E+08	5,449098E+08	9,801049E+08	1,314294E+09	1,314272E+09	9,800522E+08	5,448641E+08
27	1,926965E+08	1,794863E+07	0,000000E+00	0,000000E+00	1,794734E+07	1,926946E+08	5,448729E+08	9,800789E+08	1,314313E+09	1,314335E+09	9,801298E+08	5,449166E+08
28	1,927230E+08	1,795348E+07	0,000000E+00	0,000000E+00	1,795194E+07	1,927199E+08	5,449271E+08	9,801562E+08	1,314369E+09	1,314356E+09	9,801223E+08	5,448891E+08
29	1,926894E+08	1,794304E+07	0,000000E+00	0,000000E+00	1,794528E+07	1,927033E+08	5,449150E+08	9,801744E+08	1,314423E+09	1,314409E+09	9,801440E+08	5,448960E+08
30	1,926956E+08	1,794238E+07	0,000000E+00	0,000000E+00	1,793829E+07	1,926800E+08	5,448874E+08	9,801533E+08	1,314433E+09	1,314458E+09	9,802102E+08	5,449380E+08
31	1,927114E+08	1,794541E+07	0,000000E+00	0,000000E+00	1,794568E+07	1,927122E+08	5,449338E+08	9,801992E+08	1,314450E+09	1,314443E+09	9,801716E+08	5,448934E+08
32	1,926769E+08	1,793540E+07	0,000000E+00	0,000000E+00	1,793617E+07	1,926851E+08	5,449030E+08	9,801741E+08	1,314446E+09	1,314459E+09	9,802035E+08	5,449289E+08
33	1,927041E+08	1,794247E+07	0,000000E+00	0,000000E+00	1,793901E+07	1,926877E+08	5,449093E+08	9,801799E+08	1,314439E+09	1,314449E+09	9,802058E+08	5,449367E+08
34	1,927046E+08	1,794236E+07	0,000000E+00	0,000000E+00	1,794462E+07	1,927102E+08	5,449373E+08	9,802088E+08	1,314444E+09	1,314406E+09	9,801293E+08	5,448786E+08
35	1,926810E+08	1,793808E+07	0,000000E+00	0,000000E+00	1,793853E+07	1,926822E+08	5,448824E+08	9,801320E+08	1,314395E+09	1,314408E+09	9,801655E+08	5,449187E+08
36	1,927166E+08	1,795073E+07	0,000000E+00	0,000000E+00	1,794892E+07	1,927083E+08	5,449091E+08	9,801329E+08	1,314351E+09	1,314350E+09	9,801258E+08	5,448963E+08
37	1,926980E+08	1,794695E+07	0,000000E+00	0,000000E+00	1,795166E+07	1,927174E+08	5,449086E+08	9,801191E+08	1,314324E+09	1,314303E+09	9,800683E+08	5,448694E+08
38	1,927005E+08	1,795102E+07	0,000000E+00	0,000000E+00	1,795043E+07	1,926967E+08	5,448634E+08	9,800451E+08	1,314258E+09	1,314278E+09	9,800932E+08	5,449104E+08
39	1,927340E+08	1,796142E+07	0,000000E+00	0,000000E+00	1,796233E+07	1,927344E+08	5,449023E+08	9,800587E+08	1,314220E+09	1,314203E+09	9,800166E+08	5,448595E+08
40	1,927060E+08	1,795675E+07	0,000000E+00	0,000000E+00	1,795958E+07	1,927190E+08	5,448718E+08	9,800208E+08	1,314191E+09	1,314180E+09	9,800051E+08	5,448717E+08
41	1,927305E+08	1,796560E+07	0,000000E+00	0,000000E+00	1,796129E+07	1,927092E+08	5,448461E+08	9,799780E+08	1,314152E+09	1,314170E+09	9,800246E+08	5,448940E+08
42	1,927416E+08	1,796845E+07	0,000000E+00	0,000000E+00	1,796973E+07	1,927429E+08	5,448855E+08	9,800070E+08	1,314144E+09	1,314121E+09	9,799508E+08	5,448335E+08
43	1,927086E+08	1,796180E+07	0,000000E+00	0,000000E+00	1,796277E+07	1,927162E+08	5,448434E+08	9,799560E+08	1,314123E+09	1,314145E+09	9,800014E+08	5,448779E+08
44	1,927383E+08	1,796840E+07	0,000000E+00	0,000000E+00	1,796548E+07	1,927279E+08	5,448707E+08	9,799897E+08	1,314136E+09	1,314147E+09	9,800075E+08	5,448779E+08
45	1,927234E+08	1,796254E+07	0,000000E+00	0,000000E+00	1,796644E+07	1,927400E+08	5,448983E+08	9,800476E+08	1,314202E+09	1,314173E+09	9,799820E+08	5,448454E+08
46	1,927078E+08	1,795713E+07	0,000000E+00	0,000000E+00	1,795457E+07	1,927013E+08	5,448547E+08	9,800218E+08	1,314230E+09	1,314249E+09	9,800693E+08	5,449007E+08
47	1,927340E+08	1,796211E+07	0,000000E+00	0,000000E+00	1,795949E+07	1,927252E+08	5,448973E+08	9,800745E+08	1,314261E+09	1,314256E+09	9,800594E+08	5,448748E+08
48	1,927023E+08	1,795242E+07	0,000000E+00	0,000000E+00	1,795338E+07	1,927123E+08	5,448919E+08	9,800953E+08	1,314308E+09	1,314297E+09	9,800767E+08	5,448816E+08
49	1,927074E+08	1,795145E+07	0,000000E+00	0,000000E+00	1,794727E+07	1,926904E+08	5,448656E+08	9,800730E+08	1,314311E+09	1,314342E+09	9,801413E+08	5,449246E+08
50	1,927242E+08	1,795454E+07	0,000000E+00	0,000000E+00	1,795507E+07	1,927253E+08	5,449219E+08	9,801324E+08	1,314330E+09	1,314312E+09	9,800843E+08	5,448707E+08
51	1,926875E+08	1,794423E+07	0,000000E+00	0,000000E+00	1,794614E+07	1,926998E+08	5,448895E+08	9,801067E+08	1,314334E+09	1,314335E+09	9,801134E+08	5,448995E+08
52	1,927126E+08	1,795152E+07	0,000000E+00	0,000000E+00	1,794865E+07	1,926986E+08	5,448859E+08	9,800978E+08	1,314316E+09	1,314324E+09	9,801205E+08	5,449119E+08
53	1,927156E+08	1,795221E+07	0,000000E+00	0,000000E+00	1,795515E+07	1,927232E+08	5,449122E+08	9,801232E+08	1,314324E+09	1,314292E+09	9,800504E+08	5,448564E+08
54	1,926936E+08	1,794878E+07	0,000000E+00	0,000000E+00	1,794877E+07	1,926939E+08	5,448561E+08	9,800419E+08	1,314266E+09	1,314284E+09	9,800870E+08	5,448992E+08
55	1,927289E+08	1,796123E+07	0,000000E+00	0,000000E+00	1,795975E+07	1,927216E+08	5,448820E+08	9,800311E+08	1,314199E+09	1,314204E+09	9,800370E+08	5,448779E+08
56	1,927141E+08	1,795837E+07	0,000000E+00	0,000000E+00	1,796265E+07	1,927322E+08	5,448898E+08	9,800325E+08	1,314179E+09	1,314151E+09	9,799735E+08	5,448495E+08
57	1,927168E+08	1,796269E+07	0,000000E+00	0,000000E+00	1,796136E+07	1,927082E+08	5,448376E+08	9,799561E+08	1,314121E+09	1,314138E+09	9,800034E+08	5,448907E+08
58	1,927508E+08	1,797322E+07	0,000000E+00	0,000000E+00	1,797321E+07	1,927469E+08	5,448801E+08	9,799727E+08	1,314084E+09	1,314062E+09	9,799195E+08	5,448323E+08
59	1,927192E+08	1,796791E+07	0,000000E+00	0,000000E+00	1,797112E+07	1,927336E+08	5,448474E+08	9,799298E+08	1,314057E+09	1,314048E+09	9,799138E+08	5,448413E+08
60	1,927392E+08	1,797539E+07	0,000000E+00	0,000000E+00	1,797214E+07	1,927236E+08	5,448215E+08	9,798837E+08	1,314013E+09	1,314038E+09	9,799416E+08	5,448716E+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	1,927514E+08	1,797759E+07	0,000000E+00	0,000000E+00	1,798049E+07	1,927599E+08	5,448707E+08	9,799322E+08	1,314027E+09	1,314006E+09	9,798748E+08	5,448145E+08
62	1,927197E+08	1,797057E+07	0,000000E+00	0,000000E+00	1,797147E+07	1,927279E+08	5,448305E+08	9,798963E+08	1,314023E+09	1,314037E+09	9,799295E+08	5,448602E+08
63	1,927488E+08	1,797667E+07	0,000000E+00	0,000000E+00	1,797338E+07	1,927363E+08	5,448504E+08	9,799208E+08	1,314033E+09	1,314039E+09	9,799354E+08	5,448614E+08
64	1,927371E+08	1,797188E+07	0,000000E+00	0,000000E+00	1,797400E+07	1,927476E+08	5,448785E+08	9,799807E+08	1,314102E+09	1,314069E+09	9,799146E+08	5,448288E+08
65	1,927199E+08	1,796638E+07	0,000000E+00	0,000000E+00	1,796251E+07	1,927069E+08	5,448262E+08	9,799426E+08	1,314123E+09	1,314151E+09	9,800090E+08	5,448869E+08
66	1,927461E+08	1,797132E+07	0,000000E+00	0,000000E+00	1,796830E+07	1,927362E+08	5,448777E+08	9,799954E+08	1,314141E+09	1,314141E+09	9,799854E+08	5,448556E+08
67	1,927120E+08	1,796086E+07	0,000000E+00	0,000000E+00	1,796303E+07	1,927268E+08	5,448762E+08	9,800191E+08	1,314187E+09	1,314176E+09	9,799962E+08	5,448571E+08
68	1,927150E+08	1,795933E+07	0,000000E+00	0,000000E+00	1,795657E+07	1,927028E+08	5,448476E+08	9,799972E+08	1,314187E+09	1,314214E+09	9,800589E+08	5,449042E+08
69	1,927353E+08	1,796324E+07	0,000000E+00	0,000000E+00	1,796451E+07	1,927373E+08	5,449023E+08	9,800625E+08	1,314226E+09	1,314201E+09	9,800042E+08	5,448493E+08
70	1,927003E+08	1,795395E+07	0,000000E+00	0,000000E+00	1,795488E+07	1,927088E+08	5,448666E+08	9,800324E+08	1,314225E+09	1,314224E+09	9,800356E+08	5,448772E+08
71	1,927243E+08	1,796157E+07	0,000000E+00	0,000000E+00	1,795828E+07	1,927083E+08	5,448555E+08	9,800009E+08	1,314180E+09	1,314195E+09	9,800379E+08	5,448909E+08
72	1,927301E+08	1,796330E+07	0,000000E+00	0,000000E+00	1,796567E+07	1,927378E+08	5,448909E+08	9,800313E+08	1,314181E+09	1,314151E+09	9,799652E+08	5,448364E+08
73	1,927072E+08	1,795990E+07	0,000000E+00	0,000000E+00	1,796011E+07	1,927087E+08	5,448354E+08	9,799533E+08	1,314126E+09	1,314147E+09	9,800017E+08	5,448807E+08
74	1,927437E+08	1,797218E+07	0,000000E+00	0,000000E+00	1,797111E+07	1,927383E+08	5,448684E+08	9,799526E+08	1,314064E+09	1,314058E+09	9,799375E+08	5,448518E+08
75	1,927275E+08	1,796922E+07	0,000000E+00	0,000000E+00	1,797436E+07	1,927483E+08	5,448720E+08	9,799533E+08	1,314055E+09	1,314017E+09	9,798767E+08	5,448188E+08
76	1,927277E+08	1,797317E+07	0,000000E+00	0,000000E+00	1,797239E+07	1,927204E+08	5,448105E+08	9,798642E+08	1,313986E+09	1,314006E+09	9,799161E+08	5,448671E+08
77	1,927635E+08	1,798378E+07	0,000000E+00	0,000000E+00	1,798421E+07	1,927592E+08	5,448505E+08	9,798804E+08	1,313958E+09	1,313942E+09	9,798400E+08	5,448117E+08
78	1,927326E+08	1,797856E+07	0,000000E+00	0,000000E+00	1,798139E+07	1,927461E+08	5,448224E+08	9,798390E+08	1,313924E+09	1,313923E+09	9,798366E+08	5,448227E+08
79	1,927510E+08	1,798498E+07	0,000000E+00	0,000000E+00	1,798186E+07	1,927358E+08	5,447972E+08	9,797888E+08	1,313867E+09	1,313898E+09	9,798562E+08	5,448530E+08
80	1,927660E+08	1,798767E+07	0,000000E+00	0,000000E+00	1,798954E+07	1,927720E+08	5,448548E+08	9,798582E+08	1,313901E+09	1,313871E+09	9,797915E+08	5,447962E+08
81	1,927337E+08	1,798060E+07	0,000000E+00	0,000000E+00	1,798007E+07	1,927362E+08	5,448089E+08	9,798260E+08	1,313918E+09	1,313927E+09	9,798552E+08	5,448419E+08
82	1,927618E+08	1,798628E+07	0,000000E+00	0,000000E+00	1,798179E+07	1,927456E+08	5,448320E+08	9,798516E+08	1,313928E+09	1,313930E+09	9,798571E+08	5,448372E+08
83	1,927472E+08	1,798111E+07	0,000000E+00	0,000000E+00	1,798325E+07	1,927591E+08	5,448586E+08	9,799079E+08	1,313997E+09	1,313969E+09	9,798436E+08	5,448036E+08
84	1,927265E+08	1,797431E+07	0,000000E+00	0,000000E+00	1,797163E+07	1,927192E+08	5,448062E+08	9,798635E+08	1,314006E+09	1,314042E+09	9,799426E+08	5,448699E+08
85	1,927547E+08	1,797901E+07	0,000000E+00	0,000000E+00	1,797754E+07	1,927497E+08	5,448625E+08	9,799298E+08	1,314040E+09	1,314040E+09	9,799195E+08	5,448400E+08
86	1,927229E+08	1,796885E+07	0,000000E+00	0,000000E+00	1,797122E+07	1,927377E+08	5,448620E+08	9,799582E+08	1,314088E+09	1,314073E+09	9,799274E+08	5,448397E+08
87	1,927255E+08	1,796744E+07	0,000000E+00	0,000000E+00	1,796470E+07	1,927115E+08	5,448247E+08	9,799191E+08	1,314072E+09	1,314099E+09	9,799818E+08	5,448851E+08
88	1,927493E+08	1,797303E+07	0,000000E+00	0,000000E+00	1,797297E+07	1,927464E+08	5,448802E+08	9,799836E+08	1,314104E+09	1,314079E+09	9,799274E+08	5,448300E+08
89	1,927136E+08	1,796446E+07	0,000000E+00	0,000000E+00	1,796460E+07	1,927184E+08	5,448384E+08	9,799426E+08	1,314097E+09	1,314102E+09	9,799584E+08	5,448577E+08
90	1,927370E+08	1,797204E+07	0,000000E+00	0,000000E+00	1,796915E+07	1,927244E+08	5,448379E+08	9,799114E+08	1,314037E+09	1,314052E+09	9,799439E+08	5,448646E+08
91	1,927415E+08	1,797365E+07	0,000000E+00	0,000000E+00	1,797747E+07	1,927563E+08	5,448768E+08	9,799476E+08	1,314042E+09	1,314008E+09	9,798681E+08	5,448069E+08
92	1,927174E+08	1,796990E+07	0,000000E+00	0,000000E+00	1,797151E+07	1,927240E+08	5,448162E+08	9,798687E+08	1,313988E+09	1,314003E+09	9,799080E+08	5,448575E+08
93	1,927578E+08	1,798285E+07	0,000000E+00	0,000000E+00	1,798209E+07	1,927510E+08	5,448437E+08	9,798718E+08	1,313947E+09	1,313935E+09	9,798505E+08	5,448294E+08
94	1,927434E+08	1,798069E+07	0,000000E+00	0,000000E+00	1,798459E+07	1,927578E+08	5,448421E+08	9,798624E+08	1,313928E+09	1,313895E+09	9,797954E+08	5,447970E+08
95	1,927418E+08	1,798438E+07	0,000000E+00	0,000000E+00	1,798280E+07	1,927305E+08	5,447756E+08	9,797549E+08	1,313835E+09	1,313867E+09	9,798312E+08	5,448476E+08
96	1,927794E+08	1,799530E+07	0,000000E+00	0,000000E+00	1,799465E+07	1,927729E+08	5,448268E+08	9,797829E+08	1,313805E+09	1,313796E+09	9,797548E+08	5,447930E+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	1,927468E+08	1,798959E+07	0,000000E+00	0,000000E+00	1,799197E+07	1,927594E+08	5,448020E+08	9,797536E+08	1,313788E+09	1,313787E+09	9,797521E+08	5,448035E+08
98	1,927646E+08	1,799508E+07	0,000000E+00	0,000000E+00	1,799187E+07	1,927512E+08	5,447862E+08	9,797186E+08	1,313745E+09	1,313764E+09	9,797627E+08	5,448257E+08
99	1,927773E+08	1,799743E+07	0,000000E+00	0,000000E+00	1,799941E+07	1,927856E+08	5,448405E+08	9,797918E+08	1,313796E+09	1,313760E+09	9,797085E+08	5,447673E+08
100	1,927421E+08	1,798943E+07	0,000000E+00	0,000000E+00	1,798923E+07	1,927462E+08	5,447870E+08	9,797523E+08	1,313812E+09	1,313824E+09	9,797862E+08	5,448215E+08
101	1,927710E+08	1,799473E+07	0,000000E+00	0,000000E+00	1,799091E+07	1,927559E+08	5,448080E+08	9,797798E+08	1,313833E+09	1,313839E+09	9,797964E+08	5,448206E+08
102	1,927570E+08	1,798941E+07	0,000000E+00	0,000000E+00	1,799176E+07	1,927697E+08	5,448392E+08	9,798345E+08	1,313890E+09	1,313870E+09	9,797838E+08	5,447891E+08
103	1,927352E+08	1,798173E+07	0,000000E+00	0,000000E+00	1,797988E+07	1,927299E+08	5,447867E+08	9,797838E+08	1,313880E+09	1,313921E+09	9,798710E+08	5,448555E+08
104	1,927677E+08	1,798755E+07	0,000000E+00	0,000000E+00	1,798539E+07	1,927594E+08	5,448464E+08	9,798602E+08	1,313921E+09	1,313917E+09	9,798450E+08	5,448240E+08
105	1,927363E+08	1,797828E+07	0,000000E+00	0,000000E+00	1,797948E+07	1,927454E+08	5,448394E+08	9,798849E+08	1,313978E+09	1,313960E+09	9,798522E+08	5,448210E+08
106	1,927388E+08	1,797727E+07	0,000000E+00	0,000000E+00	1,797377E+07	1,927229E+08	5,448056E+08	9,798412E+08	1,313952E+09	1,313975E+09	9,798940E+08	5,448568E+08
107	1,927600E+08	1,798314E+07	0,000000E+00	0,000000E+00	1,798338E+07	1,927609E+08	5,448612E+08	9,799023E+08	1,313981E+09	1,313957E+09	9,798422E+08	5,448011E+08
108	1,927221E+08	1,797387E+07	0,000000E+00	0,000000E+00	1,797551E+07	1,927343E+08	5,448207E+08	9,798592E+08	1,313965E+09	1,313972E+09	9,798759E+08	5,448357E+08
109	1,927472E+08	1,798136E+07	0,000000E+00	0,000000E+00	1,798005E+07	1,927395E+08	5,448214E+08	9,798404E+08	1,313924E+09	1,313932E+09	9,798628E+08	5,448439E+08
110	1,927544E+08	1,798365E+07	0,000000E+00	0,000000E+00	1,798750E+07	1,927688E+08	5,448586E+08	9,798746E+08	1,313927E+09	1,313889E+09	9,797892E+08	5,447870E+08
111	1,927309E+08	1,798028E+07	0,000000E+00	0,000000E+00	1,798151E+07	1,927337E+08	5,447867E+08	9,797731E+08	1,313850E+09	1,313871E+09	9,798229E+08	5,448379E+08
112	1,927750E+08	1,799463E+07	0,000000E+00	0,000000E+00	1,799200E+07	1,927598E+08	5,448122E+08	9,797712E+08	1,313800E+09	1,313798E+09	9,797685E+08	5,448111E+08
113	1,927603E+08	1,799312E+07	0,000000E+00	0,000000E+00	1,799565E+07	1,927684E+08	5,448075E+08	9,797542E+08	1,313776E+09	1,313755E+09	9,797113E+08	5,447785E+08
114	1,927574E+08	1,799602E+07	0,000000E+00	0,000000E+00	1,799434E+07	1,927475E+08	5,447548E+08	9,796535E+08	1,313673E+09	1,313708E+09	9,797285E+08	5,448194E+08
115	1,927918E+08	1,800615E+07	0,000000E+00	0,000000E+00	1,800628E+07	1,927907E+08	5,448128E+08	9,796995E+08	1,313662E+09	1,313645E+09	9,796530E+08	5,447622E+08
116	1,927568E+08	1,799937E+07	0,000000E+00	0,000000E+00	1,800278E+07	1,927742E+08	5,447862E+08	9,796790E+08	1,313662E+09	1,313651E+09	9,796604E+08	5,447778E+08
117	1,927753E+08	1,800440E+07	0,000000E+00	0,000000E+00	1,800166E+07	1,927629E+08	5,447677E+08	9,796562E+08	1,313653E+09	1,313661E+09	9,796854E+08	5,448016E+08
118	1,927879E+08	1,800683E+07	0,000000E+00	0,000000E+00	1,800827E+07	1,927950E+08	5,448194E+08	9,797226E+08	1,313700E+09	1,313668E+09	9,796469E+08	5,447489E+08
119	1,927515E+08	1,799803E+07	0,000000E+00	0,000000E+00	1,799781E+07	1,927554E+08	5,447611E+08	9,796675E+08	1,313694E+09	1,313719E+09	9,797239E+08	5,448074E+08
120	1,927828E+08	1,800344E+07	0,000000E+00	0,000000E+00	1,799908E+07	1,927663E+08	5,447901E+08	9,797040E+08	1,313712E+09	1,313727E+09	9,797356E+08	5,448099E+08
121	1,927695E+08	1,799822E+07	0,000000E+00	0,000000E+00	1,800001E+07	1,927786E+08	5,448202E+08	9,797644E+08	1,313779E+09	1,313760E+09	9,797175E+08	5,447766E+08
122	1,927478E+08	1,799015E+07	0,000000E+00	0,000000E+00	1,798817E+07	1,927422E+08	5,447746E+08	9,797185E+08	1,313768E+09	1,313799E+09	9,797866E+08	5,448316E+08
123	1,927785E+08	1,799650E+07	0,000000E+00	0,000000E+00	1,799415E+07	1,927702E+08	5,448301E+08	9,797931E+08	1,313815E+09	1,313805E+09	9,797639E+08	5,447967E+08
124	1,927451E+08	1,798702E+07	0,000000E+00	0,000000E+00	1,798861E+07	1,927554E+08	5,448169E+08	9,798074E+08	1,313864E+09	1,313847E+09	9,797775E+08	5,447989E+08
125	1,927484E+08	1,798637E+07	0,000000E+00	0,000000E+00	1,798369E+07	1,927350E+08	5,447832E+08	9,797665E+08	1,313847E+09	1,313868E+09	9,798210E+08	5,448351E+08
126	1,927699E+08	1,799249E+07	0,000000E+00	0,000000E+00	1,799322E+07	1,927742E+08	5,448426E+08	9,798221E+08	1,313859E+09	1,313840E+09	9,797685E+08	5,447822E+08
127	1,927329E+08	1,798312E+07	0,000000E+00	0,000000E+00	1,798540E+07	1,927464E+08	5,447987E+08	9,797712E+08	1,313826E+09	1,313835E+09	9,797917E+08	5,448179E+08
128	1,927629E+08	1,799204E+07	0,000000E+00	0,000000E+00	1,798964E+07	1,927498E+08	5,447987E+08	9,797555E+08	1,313787E+09	1,313794E+09	9,797792E+08	5,448267E+08
129	1,927715E+08	1,799553E+07	0,000000E+00	0,000000E+00	1,799760E+07	1,927768E+08	5,448265E+08	9,797795E+08	1,313791E+09	1,313757E+09	9,797045E+08	5,447681E+08
130	1,927480E+08	1,799253E+07	0,000000E+00	0,000000E+00	1,799282E+07	1,927477E+08	5,447602E+08	9,796708E+08	1,313696E+09	1,313719E+09	9,797234E+08	5,448098E+08
131	1,927894E+08	1,800677E+07	0,000000E+00	0,000000E+00	1,800417E+07	1,927761E+08	5,447874E+08	9,796690E+08	1,313645E+09	1,313647E+09	9,796695E+08	5,447809E+08
132	1,927711E+08	1,800397E+07	0,000000E+00	0,000000E+00	1,800807E+07	1,927868E+08	5,447889E+08	9,796608E+08	1,313623E+09	1,313602E+09	9,796146E+08	5,447529E+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	1,927685E+08	1,800610E+07	0,000000E+00	0,000000E+00	1,800599E+07	1,927647E+08	5,447414E+08	9,795854E+08	1,313558E+09	1,313576E+09	9,796358E+08	5,447920E+08
134	1,928020E+08	1,801574E+07	0,000000E+00	0,000000E+00	1,801635E+07	1,928045E+08	5,447993E+08	9,796356E+08	1,313558E+09	1,313532E+09	9,795732E+08	5,447391E+08
135	1,927672E+08	1,800864E+07	0,000000E+00	0,000000E+00	1,801190E+07	1,927835E+08	5,447636E+08	9,796028E+08	1,313550E+09	1,313540E+09	9,795872E+08	5,447591E+08
136	1,927883E+08	1,801414E+07	0,000000E+00	0,000000E+00	1,801005E+07	1,927704E+08	5,447427E+08	9,795772E+08	1,313537E+09	1,313556E+09	9,796248E+08	5,447883E+08
137	1,928011E+08	1,801694E+07	0,000000E+00	0,000000E+00	1,801714E+07	1,928028E+08	5,447903E+08	9,796354E+08	1,313581E+09	1,313563E+09	9,795876E+08	5,447388E+08
138	1,927648E+08	1,800730E+07	0,000000E+00	0,000000E+00	1,800701E+07	1,927693E+08	5,447442E+08	9,795837E+08	1,313561E+09	1,313590E+09	9,796442E+08	5,447880E+08
139	1,927939E+08	1,801225E+07	0,000000E+00	0,000000E+00	1,800810E+07	1,927784E+08	5,447748E+08	9,796324E+08	1,313592E+09	1,313603E+09	9,796527E+08	5,447869E+08
140	1,927793E+08	1,800650E+07	0,000000E+00	0,000000E+00	1,800873E+07	1,927889E+08	5,448021E+08	9,796959E+08	1,313669E+09	1,313641E+09	9,796377E+08	5,447556E+08
141	1,927583E+08	1,799858E+07	0,000000E+00	0,000000E+00	1,799663E+07	1,927509E+08	5,447547E+08	9,796589E+08	1,313681E+09	1,313699E+09	9,797108E+08	5,448067E+08
142	1,927873E+08	1,800530E+07	0,000000E+00	0,000000E+00	1,800267E+07	1,927797E+08	5,448099E+08	9,797241E+08	1,313716E+09	1,313708E+09	9,796982E+08	5,447765E+08
143	1,927538E+08	1,799565E+07	0,000000E+00	0,000000E+00	1,799765E+07	1,927667E+08	5,447945E+08	9,797240E+08	1,313740E+09	1,313731E+09	9,797066E+08	5,447812E+08
144	1,927595E+08	1,799555E+07	0,000000E+00	0,000000E+00	1,799294E+07	1,927477E+08	5,447669E+08	9,796886E+08	1,313718E+09	1,313746E+09	9,797515E+08	5,448207E+08
145	1,927830E+08	1,800249E+07	0,000000E+00	0,000000E+00	1,800283E+07	1,927852E+08	5,448220E+08	9,797445E+08	1,313737E+09	1,313718E+09	9,796937E+08	5,447683E+08
146	1,927482E+08	1,799354E+07	0,000000E+00	0,000000E+00	1,799566E+07	1,927606E+08	5,447798E+08	9,796877E+08	1,313693E+09	1,313695E+09	9,796971E+08	5,447926E+08
147	1,927772E+08	1,800332E+07	0,000000E+00	0,000000E+00	1,800040E+07	1,927615E+08	5,447734E+08	9,796661E+08	1,313652E+09	1,313658E+09	9,796852E+08	5,447991E+08
148	1,927843E+08	1,800663E+07	0,000000E+00	0,000000E+00	1,800906E+07	1,927891E+08	5,447964E+08	9,796792E+08	1,313643E+09	1,313613E+09	9,796128E+08	5,447440E+08
149	1,927608E+08	1,800363E+07	0,000000E+00	0,000000E+00	1,800498E+07	1,927634E+08	5,447359E+08	9,795811E+08	1,313560E+09	1,313578E+09	9,796284E+08	5,447821E+08
150	1,928000E+08	1,801718E+07	0,000000E+00	0,000000E+00	1,801577E+07	1,927935E+08	5,447708E+08	9,795825E+08	1,313503E+09	1,313505E+09	9,795780E+08	5,447563E+08
151	1,927818E+08	1,801386E+07	0,000000E+00	0,000000E+00	1,801890E+07	1,928014E+08	5,447702E+08	9,795754E+08	1,313481E+09	1,313456E+09	9,795204E+08	5,447298E+08
152	1,927826E+08	1,801667E+07	0,000000E+00	0,000000E+00	1,801566E+07	1,927759E+08	5,447217E+08	9,795081E+08	1,313433E+09	1,313449E+09	9,795546E+08	5,447721E+08
153	1,928169E+08	1,802702E+07	0,000000E+00	0,000000E+00	1,802569E+07	1,928117E+08	5,447700E+08	9,795521E+08	1,313443E+09	1,313421E+09	9,795015E+08	5,447235E+08
154	1,927830E+08	1,801981E+07	0,000000E+00	0,000000E+00	1,802181E+07	1,927954E+08	5,447383E+08	9,795133E+08	1,313422E+09	1,313417E+09	9,795075E+08	5,447379E+08
155	1,928011E+08	1,802463E+07	0,000000E+00	0,000000E+00	1,802008E+07	1,927828E+08	5,447201E+08	9,794916E+08	1,313411E+09	1,313436E+09	9,795479E+08	5,447677E+08
156	1,928112E+08	1,802588E+07	0,000000E+00	0,000000E+00	1,802694E+07	1,928154E+08	5,447712E+08	9,795561E+08	1,313455E+09	1,313439E+09	9,795127E+08	5,447223E+08
157	1,927754E+08	1,801558E+07	0,000000E+00	0,000000E+00	1,801621E+07	1,927817E+08	5,447311E+08	9,795279E+08	1,313466E+09	1,313479E+09	9,795663E+08	5,447656E+08
158	1,928024E+08	1,802004E+07	0,000000E+00	0,000000E+00	1,801633E+07	1,927891E+08	5,447599E+08	9,795723E+08	1,313497E+09	1,313502E+09	9,795823E+08	5,447661E+08
159	1,927877E+08	1,801433E+07	0,000000E+00	0,000000E+00	1,801653E+07	1,927966E+08	5,447796E+08	9,796230E+08	1,313562E+09	1,313536E+09	9,795685E+08	5,447369E+08
160	1,927693E+08	1,800734E+07	0,000000E+00	0,000000E+00	1,800467E+07	1,927595E+08	5,447326E+08	9,795835E+08	1,313569E+09	1,313597E+09	9,796495E+08	5,447907E+08
161	1,927981E+08	1,801472E+07	0,000000E+00	0,000000E+00	1,801156E+07	1,927891E+08	5,447849E+08	9,796413E+08	1,313598E+09	1,313598E+09	9,796329E+08	5,447639E+08
162	1,927667E+08	1,800507E+07	0,000000E+00	0,000000E+00	1,800746E+07	1,927825E+08	5,447800E+08	9,796427E+08	1,313605E+09	1,313594E+09	9,796197E+08	5,447597E+08
163	1,927716E+08	1,800533E+07	0,000000E+00	0,000000E+00	1,800301E+07	1,927610E+08	5,447505E+08	9,796130E+08	1,313590E+09	1,313610E+09	9,796596E+08	5,447965E+08
164	1,927949E+08	1,801221E+07	0,000000E+00	0,000000E+00	1,801299E+07	1,927963E+08	5,447986E+08	9,796627E+08	1,313610E+09	1,313583E+09	9,796038E+08	5,447460E+08
165	1,927619E+08	1,800413E+07	0,000000E+00	0,000000E+00	1,800642E+07	1,927721E+08	5,447553E+08	9,796105E+08	1,313578E+09	1,313570E+09	9,796063E+08	5,447648E+08
166	1,927888E+08	1,801409E+07	0,000000E+00	0,000000E+00	1,801142E+07	1,927749E+08	5,447476E+08	9,795751E+08	1,313521E+09	1,313531E+09	9,796017E+08	5,447752E+08
167	1,927954E+08	1,801702E+07	0,000000E+00	0,000000E+00	1,802019E+07	1,928036E+08	5,447713E+08	9,795800E+08	1,313493E+09	1,313468E+09	9,795234E+08	5,447225E+08
168	1,927744E+08	1,801445E+07	0,000000E+00	0,000000E+00	1,801594E+07	1,927788E+08	5,447181E+08	9,794943E+08	1,313416E+09	1,313436E+09	9,795423E+08	5,447615E+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	1,928137E+08	1,802827E+07	0,000000E+00	0,000000E+00	1,802623E+07	1,928057E+08	5,447493E+08	9,795015E+08	1,313376E+09	1,313372E+09	9,794924E+08	5,447380E+08
170	1,927980E+08	1,802517E+07	0,000000E+00	0,000000E+00	1,802949E+07	1,928158E+08	5,447506E+08	9,794916E+08	1,313350E+09	1,313319E+09	9,794265E+08	5,447041E+08
171	1,927969E+08	1,802815E+07	0,000000E+00	0,000000E+00	1,802601E+07	1,927867E+08	5,446966E+08	9,794230E+08	1,313309E+09	1,313327E+09	9,794702E+08	5,447483E+08
172	1,928293E+08	1,803762E+07	0,000000E+00	0,000000E+00	1,803626E+07	1,928226E+08	5,447404E+08	9,794591E+08	1,313312E+09	1,313299E+09	9,794263E+08	5,447065E+08
173	1,927960E+08	1,802996E+07	0,000000E+00	0,000000E+00	1,803250E+07	1,928084E+08	5,447154E+08	9,794332E+08	1,313303E+09	1,313297E+09	9,794287E+08	5,447163E+08
174	1,928105E+08	1,803327E+07	0,000000E+00	0,000000E+00	1,802983E+07	1,927969E+08	5,447039E+08	9,794160E+08	1,313289E+09	1,313316E+09	9,794726E+08	5,447488E+08
175	1,928201E+08	1,803374E+07	0,000000E+00	0,000000E+00	1,803545E+07	1,928257E+08	5,447525E+08	9,794823E+08	1,313334E+09	1,313314E+09	9,794328E+08	5,447030E+08
176	1,927868E+08	1,802391E+07	0,000000E+00	0,000000E+00	1,802392E+07	1,927904E+08	5,447132E+08	9,794608E+08	1,313359E+09	1,313372E+09	9,794958E+08	5,447463E+08
177	1,928137E+08	1,802918E+07	0,000000E+00	0,000000E+00	1,802410E+07	1,927957E+08	5,447358E+08	9,795006E+08	1,313398E+09	1,313405E+09	9,795176E+08	5,447506E+08
178	1,928006E+08	1,802374E+07	0,000000E+00	0,000000E+00	1,802537E+07	1,928092E+08	5,447598E+08	9,795434E+08	1,313444E+09	1,313421E+09	9,794927E+08	5,447153E+08
179	1,927799E+08	1,801673E+07	0,000000E+00	0,000000E+00	1,801413E+07	1,927730E+08	5,447166E+08	9,795097E+08	1,313453E+09	1,313481E+09	9,795725E+08	5,447694E+08
180	1,928070E+08	1,802312E+07	0,000000E+00	0,000000E+00	1,802133E+07	1,928025E+08	5,447692E+08	9,795697E+08	1,313481E+09	1,313477E+09	9,795561E+08	5,447466E+08
181	1,927782E+08	1,801383E+07	0,000000E+00	0,000000E+00	1,801714E+07	1,927951E+08	5,447663E+08	9,795865E+08	1,313508E+09	1,313480E+09	9,795359E+08	5,447350E+08
182	1,927812E+08	1,801416E+07	0,000000E+00	0,000000E+00	1,801256E+07	1,927728E+08	5,447317E+08	9,795424E+08	1,313483E+09	1,313499E+09	9,795821E+08	5,447747E+08
183	1,928058E+08	1,802159E+07	0,000000E+00	0,000000E+00	1,802227E+07	1,928045E+08	5,447690E+08	9,795716E+08	1,313480E+09	1,313459E+09	9,795234E+08	5,447258E+08
184	1,927761E+08	1,801490E+07	0,000000E+00	0,000000E+00	1,801674E+07	1,927836E+08	5,447266E+08	9,795119E+08	1,313435E+09	1,313441E+09	9,795284E+08	5,447458E+08
185	1,928034E+08	1,802572E+07	0,000000E+00	0,000000E+00	1,802240E+07	1,927878E+08	5,447188E+08	9,794722E+08	1,313371E+09	1,313390E+09	9,795162E+08	5,447580E+08
186	1,928118E+08	1,802854E+07	0,000000E+00	0,000000E+00	1,803182E+07	1,928216E+08	5,447518E+08	9,794819E+08	1,313332E+09	1,313305E+09	9,794188E+08	5,446965E+08
187	1,927898E+08	1,802637E+07	0,000000E+00	0,000000E+00	1,802740E+07	1,927935E+08	5,446988E+08	9,794091E+08	1,313275E+09	1,313284E+09	9,794373E+08	5,447331E+08
188	1,928268E+08	1,803931E+07	0,000000E+00	0,000000E+00	1,803728E+07	1,928175E+08	5,447233E+08	9,794134E+08	1,313243E+09	1,313234E+09	9,793982E+08	5,447135E+08
189	1,928128E+08	1,803674E+07	0,000000E+00	0,000000E+00	1,804072E+07	1,928279E+08	5,447266E+08	9,794145E+08	1,313235E+09	1,313197E+09	9,793391E+08	5,446766E+08
190	1,928079E+08	1,803869E+07	0,000000E+00	0,000000E+00	1,803716E+07	1,928012E+08	5,446734E+08	9,793358E+08	1,313184E+09	1,313209E+09	9,793947E+08	5,447268E+08
191	1,928387E+08	1,804684E+07	0,000000E+00	0,000000E+00	1,804638E+07	1,928357E+08	5,447178E+08	9,793693E+08	1,313176E+09	1,313171E+09	9,793493E+08	5,446894E+08
192	1,928082E+08	1,803907E+07	0,000000E+00	0,000000E+00	1,804205E+07	1,928220E+08	5,446999E+08	9,793573E+08	1,313179E+09	1,313179E+09	9,793576E+08	5,447000E+08
193	1,928225E+08	1,804221E+07	0,000000E+00	0,000000E+00	1,803818E+07	1,928063E+08	5,446841E+08	9,793459E+08	1,313183E+09	1,313206E+09	9,794008E+08	5,447335E+08
194	1,928336E+08	1,804277E+07	0,000000E+00	0,000000E+00	1,804368E+07	1,928365E+08	5,447342E+08	9,794096E+08	1,313222E+09	1,313198E+09	9,793526E+08	5,446804E+08
195	1,927986E+08	1,803334E+07	0,000000E+00	0,000000E+00	1,803216E+07	1,927989E+08	5,446926E+08	9,793906E+08	1,313255E+09	1,313265E+09	9,794203E+08	5,447231E+08
196	1,928223E+08	1,803765E+07	0,000000E+00	0,000000E+00	1,803310E+07	1,928060E+08	5,447129E+08	9,794235E+08	1,313287E+09	1,313298E+09	9,794485E+08	5,447325E+08
197	1,928109E+08	1,803248E+07	0,000000E+00	0,000000E+00	1,803489E+07	1,928227E+08	5,447462E+08	9,794806E+08	1,313341E+09	1,313313E+09	9,794183E+08	5,446929E+08
198	1,927874E+08	1,802455E+07	0,000000E+00	0,000000E+00	1,802353E+07	1,927876E+08	5,447052E+08	9,794451E+08	1,313345E+09	1,313370E+09	9,794997E+08	5,447498E+08
199	1,928156E+08	1,803090E+07	0,000000E+00	0,000000E+00	1,802969E+07	1,928116E+08	5,447488E+08	9,794966E+08	1,313366E+09	1,313358E+09	9,794780E+08	5,447286E+08
200	1,927919E+08	1,802316E+07	0,000000E+00	0,000000E+00	1,802571E+07	1,928034E+08	5,447417E+08	9,795057E+08	1,313392E+09	1,313370E+09	9,794640E+08	5,447166E+08
201	1,927956E+08	1,802494E+07	0,000000E+00	0,000000E+00	1,802184E+07	1,927804E+08	5,446996E+08	9,794498E+08	1,313358E+09	1,313382E+09	9,795085E+08	5,447588E+08
202	1,928223E+08	1,803296E+07	0,000000E+00	0,000000E+00	1,803291E+07	1,928185E+08	5,447413E+08	9,794678E+08	1,313327E+09	1,313314E+09	9,794326E+08	5,447025E+08
203	1,927907E+08	1,802661E+07	0,000000E+00	0,000000E+00	1,802827E+07	1,927998E+08	5,447063E+08	9,794179E+08	1,313285E+09	1,313290E+09	9,794297E+08	5,447198E+08
204	1,928155E+08	1,803636E+07	0,000000E+00	0,000000E+00	1,803425E+07	1,928046E+08	5,447006E+08	9,793853E+08	1,313227E+09	1,313240E+09	9,794177E+08	5,447332E+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	1,928259E+08	1,803953E+07	0,000000E+00	0,000000E+00	1,804342E+07	1,928374E+08	5,447368E+08	9,794123E+08	1,313212E+09	1,313167E+09	9,793179E+08	5,446651E+08
206	1,928004E+08	1,803689E+07	0,000000E+00	0,000000E+00	1,803870E+07	1,928083E+08	5,446798E+08	9,793312E+08	1,313156E+09	1,313161E+09	9,793509E+08	5,447068E+08
207	1,928373E+08	1,804938E+07	0,000000E+00	0,000000E+00	1,804756E+07	1,928278E+08	5,446947E+08	9,793214E+08	1,313111E+09	1,313109E+09	9,793174E+08	5,446930E+08
208	1,928266E+08	1,804752E+07	0,000000E+00	0,000000E+00	1,805138E+07	1,928400E+08	5,446985E+08	9,793171E+08	1,313100E+09	1,313078E+09	9,792687E+08	5,446601E+08
209	1,928217E+08	1,804938E+07	0,000000E+00	0,000000E+00	1,804740E+07	1,928137E+08	5,446480E+08	9,792418E+08	1,313046E+09	1,313082E+09	9,793211E+08	5,447138E+08
210	1,928539E+08	1,805687E+07	0,000000E+00	0,000000E+00	1,805613E+07	1,928494E+08	5,446979E+08	9,792802E+08	1,313031E+09	1,313026E+09	9,792588E+08	5,446681E+08
211	1,928224E+08	1,804928E+07	0,000000E+00	0,000000E+00	1,805120E+07	1,928326E+08	5,446811E+08	9,792832E+08	1,313058E+09	1,313047E+09	9,792659E+08	5,446751E+08
212	1,928337E+08	1,805134E+07	0,000000E+00	0,000000E+00	1,804698E+07	1,928154E+08	5,446615E+08	9,792716E+08	1,313072E+09	1,313091E+09	9,793201E+08	5,447105E+08
213	1,928456E+08	1,805232E+07	0,000000E+00	0,000000E+00	1,805265E+07	1,928467E+08	5,447164E+08	9,793481E+08	1,313127E+09	1,313096E+09	9,792777E+08	5,446543E+08
214	1,928060E+08	1,804179E+07	0,000000E+00	0,000000E+00	1,804153E+07	1,928129E+08	5,446782E+08	9,793242E+08	1,313155E+09	1,313169E+09	9,793563E+08	5,447027E+08
215	1,928281E+08	1,804495E+07	0,000000E+00	0,000000E+00	1,804167E+07	1,928178E+08	5,446975E+08	9,793536E+08	1,313176E+09	1,313191E+09	9,793828E+08	5,447166E+08
216	1,928211E+08	1,804043E+07	0,000000E+00	0,000000E+00	1,804338E+07	1,928343E+08	5,447323E+08	9,794147E+08	1,313238E+09	1,313215E+09	9,793572E+08	5,446784E+08
217	1,927993E+08	1,803330E+07	0,000000E+00	0,000000E+00	1,803171E+07	1,927963E+08	5,446843E+08	9,793745E+08	1,313242E+09	1,313268E+09	9,794337E+08	5,447367E+08
218	1,928304E+08	1,804050E+07	0,000000E+00	0,000000E+00	1,803823E+07	1,928204E+08	5,447226E+08	9,794097E+08	1,313240E+09	1,313236E+09	9,793981E+08	5,447086E+08
219	1,928071E+08	1,803413E+07	0,000000E+00	0,000000E+00	1,803534E+07	1,928128E+08	5,447137E+08	9,794147E+08	1,313260E+09	1,313240E+09	9,793788E+08	5,446941E+08
220	1,928082E+08	1,803545E+07	0,000000E+00	0,000000E+00	1,803291E+07	1,927936E+08	5,446714E+08	9,793493E+08	1,313211E+09	1,313241E+09	9,794193E+08	5,447365E+08
221	1,928359E+08	1,804387E+07	0,000000E+00	0,000000E+00	1,804459E+07	1,928358E+08	5,447261E+08	9,793860E+08	1,313186E+09	1,313165E+09	9,793329E+08	5,446729E+08
222	1,928006E+08	1,803669E+07	0,000000E+00	0,000000E+00	1,804024E+07	1,928188E+08	5,446946E+08	9,793402E+08	1,313148E+09	1,313144E+09	9,793310E+08	5,446900E+08
223	1,928245E+08	1,804587E+07	0,000000E+00	0,000000E+00	1,804477E+07	1,928174E+08	5,446801E+08	9,793031E+08	1,313095E+09	1,313099E+09	9,793208E+08	5,447062E+08
224	1,928394E+08	1,805042E+07	0,000000E+00	0,000000E+00	1,805396E+07	1,928491E+08	5,447119E+08	9,793243E+08	1,313087E+09	1,313049E+09	9,792386E+08	5,446431E+08
225	1,928156E+08	1,804880E+07	0,000000E+00	0,000000E+00	1,804928E+07	1,928184E+08	5,446485E+08	9,792353E+08	1,313026E+09	1,313043E+09	9,792770E+08	5,446911E+08
226	1,928542E+08	1,806104E+07	0,000000E+00	0,000000E+00	1,805835E+07	1,928410E+08	5,446657E+08	9,792169E+08	1,312960E+09	1,312968E+09	9,792328E+08	5,446740E+08
227	1,928427E+08	1,805923E+07	0,000000E+00	0,000000E+00	1,806228E+07	1,928539E+08	5,446767E+08	9,792259E+08	1,312955E+09	1,312935E+09	9,791795E+08	5,446397E+08
228	1,928346E+08	1,805934E+07	0,000000E+00	0,000000E+00	1,805789E+07	1,928273E+08	5,446285E+08	9,791600E+08	1,312914E+09	1,312946E+09	9,792327E+08	5,446923E+08
229	1,928670E+08	1,806663E+07	0,000000E+00	0,000000E+00	1,806572E+07	1,928618E+08	5,446844E+08	9,792184E+08	1,312923E+09	1,312904E+09	9,791702E+08	5,446393E+08
230	1,928307E+08	1,805807E+07	0,000000E+00	0,000000E+00	1,806061E+07	1,928452E+08	5,446662E+08	9,792184E+08	1,312957E+09	1,312943E+09	9,791912E+08	5,446492E+08
231	1,928400E+08	1,805918E+07	0,000000E+00	0,000000E+00	1,805533E+07	1,928243E+08	5,446395E+08	9,791986E+08	1,312966E+09	1,312988E+09	9,792521E+08	5,446903E+08
232	1,928551E+08	1,806090E+07	0,000000E+00	0,000000E+00	1,806155E+07	1,928582E+08	5,446963E+08	9,792707E+08	1,313020E+09	1,313005E+09	9,792224E+08	5,446405E+08
233	1,928169E+08	1,805047E+07	0,000000E+00	0,000000E+00	1,805008E+07	1,928241E+08	5,446608E+08	9,792519E+08	1,313045E+09	1,313067E+09	9,792972E+08	5,446926E+08
234	1,928410E+08	1,805340E+07	0,000000E+00	0,000000E+00	1,804990E+07	1,928283E+08	5,446796E+08	9,792784E+08	1,313054E+09	1,313068E+09	9,793066E+08	5,446999E+08
235	1,928349E+08	1,804994E+07	0,000000E+00	0,000000E+00	1,805149E+07	1,928417E+08	5,447105E+08	9,793417E+08	1,313124E+09	1,313093E+09	9,792756E+08	5,446582E+08
236	1,928116E+08	1,804267E+07	0,000000E+00	0,000000E+00	1,804079E+07	1,928050E+08	5,446582E+08	9,792910E+08	1,313121E+09	1,313148E+09	9,793536E+08	5,447157E+08
237	1,928441E+08	1,805091E+07	0,000000E+00	0,000000E+00	1,804815E+07	1,928316E+08	5,447005E+08	9,793303E+08	1,313116E+09	1,313110E+09	9,793119E+08	5,446805E+08
238	1,928161E+08	1,804387E+07	0,000000E+00	0,000000E+00	1,804662E+07	1,928302E+08	5,446974E+08	9,793317E+08	1,313128E+09	1,313110E+09	9,792937E+08	5,446677E+08
239	1,928158E+08	1,804445E+07	0,000000E+00	0,000000E+00	1,804365E+07	1,928094E+08	5,446559E+08	9,792684E+08	1,313074E+09	1,313101E+09	9,793283E+08	5,447114E+08
240	1,928471E+08	1,805361E+07	0,000000E+00	0,000000E+00	1,805521E+07	1,928508E+08	5,447101E+08	9,793081E+08	1,313062E+09	1,313041E+09	9,792500E+08	5,446510E+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°
241	1,928144E+08	1,804749E+07	0,000000E+00	0,000000E+00	1,805038E+07	1,928303E+08	5,446730E+08	9,792613E+08	1,313030E+09	1,313023E+09	9,792504E+08	5,446712E+08
242	1,928404E+08	1,805715E+07	0,000000E+00	0,000000E+00	1,805482E+07	1,928271E+08	5,446505E+08	9,792064E+08	1,312955E+09	1,312965E+09	9,792343E+08	5,446843E+08
243	1,928562E+08	1,806295E+07	0,000000E+00	0,000000E+00	1,806477E+07	1,928590E+08	5,446795E+08	9,792231E+08	1,312943E+09	1,312911E+09	9,791520E+08	5,446230E+08
244	1,928308E+08	1,806066E+07	0,000000E+00	0,000000E+00	1,806131E+07	1,928328E+08	5,446184E+08	9,791278E+08	1,312870E+09	1,312898E+09	9,791893E+08	5,446720E+08
245	1,928699E+08	1,807251E+07	0,000000E+00	0,000000E+00	1,806994E+07	1,928570E+08	5,446480E+08	9,791306E+08	1,312813E+09	1,312818E+09	9,791352E+08	5,446467E+08
246	1,928537E+08	1,806934E+07	0,000000E+00	0,000000E+00	1,807374E+07	1,928709E+08	5,446629E+08	9,791485E+08	1,312822E+09	1,312793E+09	9,790852E+08	5,446123E+08
247	1,928434E+08	1,806826E+07	0,000000E+00	0,000000E+00	1,806734E+07	1,928384E+08	5,446086E+08	9,790845E+08	1,312792E+09	1,312815E+09	9,791422E+08	5,446655E+08
248	1,928776E+08	1,807605E+07	0,000000E+00	0,000000E+00	1,807485E+07	1,928720E+08	5,446626E+08	9,791424E+08	1,312818E+09	1,312805E+09	9,791019E+08	5,446189E+08
249	1,928423E+08	1,806789E+07	0,000000E+00	0,000000E+00	1,806950E+07	1,928552E+08	5,446445E+08	9,791439E+08	1,312853E+09	1,312847E+09	9,791315E+08	5,446349E+08
250	1,928516E+08	1,806817E+07	0,000000E+00	0,000000E+00	1,806410E+07	1,928362E+08	5,446200E+08	9,791189E+08	1,312846E+09	1,312876E+09	9,791850E+08	5,446748E+08
251	1,928671E+08	1,807025E+07	0,000000E+00	0,000000E+00	1,807033E+07	1,928696E+08	5,446814E+08	9,792030E+08	1,312909E+09	1,312890E+09	9,791525E+08	5,446262E+08
252	1,928282E+08	1,805878E+07	0,000000E+00	0,000000E+00	1,805887E+07	1,928349E+08	5,446433E+08	9,791839E+08	1,312937E+09	1,312954E+09	9,792240E+08	5,446759E+08
253	1,928533E+08	1,806218E+07	0,000000E+00	0,000000E+00	1,805819E+07	1,928374E+08	5,446642E+08	9,792186E+08	1,312953E+09	1,312957E+09	9,792274E+08	5,446752E+08
254	1,928437E+08	1,805852E+07	0,000000E+00	0,000000E+00	1,806059E+07	1,928523E+08	5,446912E+08	9,792706E+08	1,313016E+09	1,312984E+09	9,792009E+08	5,446339E+08
255	1,928187E+08	1,805090E+07	0,000000E+00	0,000000E+00	1,804987E+07	1,928148E+08	5,446330E+08	9,792072E+08	1,312996E+09	1,313027E+09	9,792750E+08	5,446929E+08
256	1,928542E+08	1,806025E+07	0,000000E+00	0,000000E+00	1,805833E+07	1,928455E+08	5,446788E+08	9,792412E+08	1,312988E+09	1,312995E+09	9,792398E+08	5,446623E+08
257	1,928285E+08	1,805386E+07	0,000000E+00	0,000000E+00	1,805681E+07	1,928446E+08	5,446802E+08	9,792499E+08	1,312996E+09	1,312980E+09	9,792136E+08	5,446503E+08
258	1,928299E+08	1,805465E+07	0,000000E+00	0,000000E+00	1,805362E+07	1,928218E+08	5,446351E+08	9,791830E+08	1,312935E+09	1,312955E+09	9,792337E+08	5,446879E+08
259	1,928625E+08	1,806523E+07	0,000000E+00	0,000000E+00	1,806521E+07	1,928603E+08	5,446845E+08	9,792224E+08	1,312931E+09	1,312901E+09	9,791562E+08	5,446282E+08
260	1,928298E+08	1,805931E+07	0,000000E+00	0,000000E+00	1,806157E+07	1,928412E+08	5,446421E+08	9,791646E+08	1,312892E+09	1,312889E+09	9,791619E+08	5,446488E+08
261	1,928567E+08	1,806950E+07	0,000000E+00	0,000000E+00	1,806645E+07	1,928406E+08	5,446258E+08	9,791142E+08	1,312813E+09	1,312825E+09	9,791429E+08	5,446574E+08
262	1,928677E+08	1,807420E+07	0,000000E+00	0,000000E+00	1,807739E+07	1,928776E+08	5,446604E+08	9,791303E+08	1,312796E+09	1,312768E+09	9,790626E+08	5,445980E+08
263	1,928404E+08	1,807053E+07	0,000000E+00	0,000000E+00	1,807289E+07	1,928495E+08	5,446011E+08	9,790418E+08	1,312726E+09	1,312749E+09	9,790947E+08	5,446477E+08
264	1,928817E+08	1,808234E+07	0,000000E+00	0,000000E+00	1,808070E+07	1,928718E+08	5,446294E+08	9,790501E+08	1,312691E+09	1,312695E+09	9,790523E+08	5,446250E+08
265	1,928665E+08	1,807948E+07	0,000000E+00	0,000000E+00	1,808328E+07	1,928822E+08	5,446431E+08	9,790744E+08	1,312710E+09	1,312679E+09	9,790092E+08	5,445934E+08
266	1,928568E+08	1,807808E+07	0,000000E+00	0,000000E+00	1,807612E+07	1,928471E+08	5,445835E+08	9,790021E+08	1,312671E+09	1,312697E+09	9,790650E+08	5,446444E+08
267	1,928903E+08	1,808647E+07	0,000000E+00	0,000000E+00	1,808378E+07	1,928803E+08	5,446366E+08	9,790606E+08	1,312699E+09	1,312688E+09	9,790302E+08	5,446029E+08
268	1,928545E+08	1,807755E+07	0,000000E+00	0,000000E+00	1,807927E+07	1,928676E+08	5,446230E+08	9,790623E+08	1,312732E+09	1,312732E+09	9,790618E+08	5,446199E+08
269	1,928639E+08	1,807723E+07	0,000000E+00	0,000000E+00	1,807324E+07	1,928491E+08	5,446094E+08	9,790551E+08	1,312731E+09	1,312755E+09	9,791052E+08	5,446521E+08
270	1,928751E+08	1,807826E+07	0,000000E+00	0,000000E+00	1,807945E+07	1,928820E+08	5,446683E+08	9,791408E+08	1,312803E+09	1,312775E+09	9,790747E+08	5,446036E+08
271	1,928356E+08	1,806631E+07	0,000000E+00	0,000000E+00	1,806686E+07	1,928430E+08	5,446225E+08	9,791152E+08	1,312831E+09	1,312842E+09	9,791457E+08	5,446535E+08
272	1,928635E+08	1,807083E+07	0,000000E+00	0,000000E+00	1,806667E+07	1,928451E+08	5,446366E+08	9,791381E+08	1,312849E+09	1,312863E+09	9,791634E+08	5,446576E+08
273	1,928558E+08	1,806813E+07	0,000000E+00	0,000000E+00	1,806945E+07	1,928622E+08	5,446670E+08	9,791889E+08	1,312900E+09	1,312877E+09	9,791359E+08	5,446197E+08
274	1,928315E+08	1,806045E+07	0,000000E+00	0,000000E+00	1,805932E+07	1,928274E+08	5,446118E+08	9,791198E+08	1,312860E+09	1,312895E+09	9,791939E+08	5,446731E+08
275	1,928669E+08	1,807059E+07	0,000000E+00	0,000000E+00	1,806822E+07	1,928584E+08	5,446619E+08	9,791643E+08	1,312858E+09	1,312855E+09	9,791523E+08	5,446430E+08
276	1,928419E+08	1,806411E+07	0,000000E+00	0,000000E+00	1,806747E+07	1,928585E+08	5,446613E+08	9,791717E+08	1,312871E+09	1,312847E+09	9,791239E+08	5,446276E+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	1,928441E+08	1,806562E+07	0,000000E+00	0,000000E+00	1,806416E+07	1,928347E+08	5,446181E+08	9,791082E+08	1,312811E+09	1,312823E+09	9,791396E+08	5,446584E+08
278	1,928731E+08	1,807592E+07	0,000000E+00	0,000000E+00	1,807673E+07	1,928744E+08	5,446613E+08	9,791356E+08	1,312800E+09	1,312771E+09	9,790694E+08	5,446023E+08
279	1,928403E+08	1,806989E+07	0,000000E+00	0,000000E+00	1,807329E+07	1,928549E+08	5,446135E+08	9,790653E+08	1,312746E+09	1,312748E+09	9,790724E+08	5,446258E+08
280	1,928695E+08	1,808050E+07	0,000000E+00	0,000000E+00	1,807857E+07	1,928569E+08	5,445997E+08	9,790129E+08	1,312668E+09	1,312693E+09	9,790610E+08	5,446390E+08
281	1,928822E+08	1,808523E+07	0,000000E+00	0,000000E+00	1,808857E+07	1,928929E+08	5,446411E+08	9,790419E+08	1,312653E+09	1,312625E+09	9,789752E+08	5,445799E+08
282	1,928556E+08	1,808117E+07	0,000000E+00	0,000000E+00	1,808302E+07	1,928612E+08	5,445781E+08	9,789529E+08	1,312582E+09	1,312599E+09	9,789962E+08	5,446230E+08
283	1,928967E+08	1,809368E+07	0,000000E+00	0,000000E+00	1,809016E+07	1,928807E+08	5,446039E+08	9,789669E+08	1,312563E+09	1,312558E+09	9,789611E+08	5,446028E+08
284	1,928810E+08	1,809062E+07	0,000000E+00	0,000000E+00	1,809342E+07	1,928924E+08	5,446152E+08	9,789867E+08	1,312586E+09	1,312558E+09	9,789284E+08	5,445718E+08
285	1,928704E+08	1,808887E+07	0,000000E+00	0,000000E+00	1,808608E+07	1,928600E+08	5,445661E+08	9,789265E+08	1,312552E+09	1,312578E+09	9,789854E+08	5,446194E+08
286	1,928983E+08	1,809560E+07	0,000000E+00	0,000000E+00	1,809427E+07	1,928966E+08	5,446243E+08	9,789909E+08	1,312585E+09	1,312575E+09	9,789580E+08	5,445827E+08
287	1,928618E+08	1,808531E+07	0,000000E+00	0,000000E+00	1,808835E+07	1,928800E+08	5,446089E+08	9,789981E+08	1,312624E+09	1,312619E+09	9,789876E+08	5,446009E+08
288	1,928731E+08	1,808492E+07	0,000000E+00	0,000000E+00	1,808165E+07	1,928592E+08	5,445906E+08	9,789908E+08	1,312640E+09	1,312665E+09	9,790431E+08	5,446366E+08
289	1,928863E+08	1,808658E+07	0,000000E+00	0,000000E+00	1,808682E+07	1,928885E+08	5,446465E+08	9,790732E+08	1,312707E+09	1,312683E+09	9,790142E+08	5,445898E+08
290	1,928478E+08	1,807488E+07	0,000000E+00	0,000000E+00	1,807444E+07	1,928489E+08	5,445944E+08	9,790321E+08	1,312713E+09	1,312730E+09	9,790742E+08	5,446353E+08
291	1,928760E+08	1,808065E+07	0,000000E+00	0,000000E+00	1,807543E+07	1,928541E+08	5,446097E+08	9,790512E+08	1,312722E+09	1,312739E+09	9,790893E+08	5,446424E+08
292	1,928686E+08	1,807790E+07	0,000000E+00	0,000000E+00	1,807972E+07	1,928765E+08	5,446466E+08	9,791023E+08	1,312766E+09	1,312747E+09	9,790551E+08	5,446014E+08
293	1,928447E+08	1,807036E+07	0,000000E+00	0,000000E+00	1,806962E+07	1,928434E+08	5,446031E+08	9,790511E+08	1,312732E+09	1,312754E+09	9,790985E+08	5,446445E+08
294	1,928754E+08	1,807988E+07	0,000000E+00	0,000000E+00	1,807896E+07	1,928736E+08	5,446484E+08	9,790951E+08	1,312739E+09	1,312723E+09	9,790588E+08	5,446143E+08
295	1,928511E+08	1,807354E+07	0,000000E+00	0,000000E+00	1,807768E+07	1,928701E+08	5,446387E+08	9,790921E+08	1,312749E+09	1,312718E+09	9,790327E+08	5,446008E+08
296	1,928559E+08	1,807624E+07	0,000000E+00	0,000000E+00	1,807519E+07	1,928467E+08	5,445883E+08	9,790160E+08	1,312690E+09	1,312711E+09	9,790637E+08	5,446385E+08
297	1,928872E+08	1,808714E+07	0,000000E+00	0,000000E+00	1,808765E+07	1,928875E+08	5,446346E+08	9,790405E+08	1,312663E+09	1,312645E+09	9,789936E+08	5,445874E+08
298	1,928561E+08	1,808113E+07	0,000000E+00	0,000000E+00	1,808453E+07	1,928692E+08	5,445886E+08	9,789654E+08	1,312591E+09	1,312597E+09	9,789810E+08	5,446063E+08
299	1,928858E+08	1,809223E+07	0,000000E+00	0,000000E+00	1,808944E+07	1,928699E+08	5,445761E+08	9,789212E+08	1,312520E+09	1,312537E+09	9,789652E+08	5,446198E+08
300	1,928985E+08	1,809672E+07	0,000000E+00	0,000000E+00	1,809953E+07	1,929058E+08	5,446168E+08	9,789529E+08	1,312515E+09	1,312483E+09	9,788799E+08	5,445565E+08
301	1,928715E+08	1,809279E+07	0,000000E+00	0,000000E+00	1,809341E+07	1,928737E+08	5,445596E+08	9,788734E+08	1,312453E+09	1,312462E+09	9,788986E+08	5,445906E+08
302	1,929058E+08	1,810401E+07	0,000000E+00	0,000000E+00	1,810097E+07	1,928937E+08	5,445816E+08	9,788849E+08	1,312440E+09	1,312435E+09	9,788760E+08	5,445752E+08
303	1,928898E+08	1,810030E+07	0,000000E+00	0,000000E+00	1,810397E+07	1,929059E+08	5,445921E+08	9,789016E+08	1,312461E+09	1,312437E+09	9,788500E+08	5,445504E+08
304	1,928805E+08	1,809811E+07	0,000000E+00	0,000000E+00	1,809645E+07	1,928747E+08	5,445460E+08	9,788467E+08	1,312440E+09	1,312475E+09	9,789193E+08	5,446041E+08
305	1,929097E+08	1,810434E+07	0,000000E+00	0,000000E+00	1,810308E+07	1,929082E+08	5,446091E+08	9,789234E+08	1,312476E+09	1,312465E+09	9,788914E+08	5,445705E+08
306	1,928749E+08	1,809384E+07	0,000000E+00	0,000000E+00	1,809611E+07	1,928870E+08	5,445858E+08	9,789233E+08	1,312510E+09	1,312501E+09	9,789109E+08	5,445828E+08
307	1,928862E+08	1,809421E+07	0,000000E+00	0,000000E+00	1,808922E+07	1,928648E+08	5,445635E+08	9,789132E+08	1,312528E+09	1,312551E+09	9,789704E+08	5,446203E+08
308	1,928993E+08	1,809616E+07	0,000000E+00	0,000000E+00	1,809557E+07	1,928968E+08	5,446188E+08	9,789885E+08	1,312590E+09	1,312573E+09	9,789436E+08	5,445717E+08
309	1,928604E+08	1,808454E+07	0,000000E+00	0,000000E+00	1,808390E+07	1,928633E+08	5,445811E+08	9,789580E+08	1,312591E+09	1,312607E+09	9,789915E+08	5,446085E+08
310	1,928825E+08	1,808915E+07	0,000000E+00	0,000000E+00	1,808607E+07	1,928721E+08	5,446013E+08	9,789845E+08	1,312605E+09	1,312615E+09	9,790057E+08	5,446171E+08
311	1,928761E+08	1,808597E+07	0,000000E+00	0,000000E+00	1,808966E+07	1,928919E+08	5,446355E+08	9,790382E+08	1,312654E+09	1,312622E+09	9,789691E+08	5,445772E+08
312	1,928542E+08	1,807907E+07	0,000000E+00	0,000000E+00	1,807949E+07	1,928564E+08	5,445850E+08	9,789844E+08	1,312636E+09	1,312654E+09	9,790246E+08	5,446239E+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												
313	1,928870E+08	1,808936E+07	0,000000E+00	0,000000E+00	1,808796E+07	1,928828E+08	5,446259E+08	9,790202E+08	1,312631E+09	1,312617E+09	9,789888E+08	5,445982E+08
314	1,928656E+08	1,808393E+07	0,000000E+00	0,000000E+00	1,808710E+07	1,928774E+08	5,446048E+08	9,789933E+08	1,312612E+09	1,312591E+09	9,789529E+08	5,445823E+08
315	1,928719E+08	1,808812E+07	0,000000E+00	0,000000E+00	1,808591E+07	1,928579E+08	5,445556E+08	9,789096E+08	1,312537E+09	1,312566E+09	9,789806E+08	5,446241E+08
316	1,929045E+08	1,809911E+07	0,000000E+00	0,000000E+00	1,809934E+07	1,929019E+08	5,446067E+08	9,789338E+08	1,312502E+09	1,312491E+09	9,788996E+08	5,445677E+08
317	1,928735E+08	1,809319E+07	0,000000E+00	0,000000E+00	1,809623E+07	1,928859E+08	5,445727E+08	9,788764E+08	1,312435E+09	1,312431E+09	9,788696E+08	5,445743E+08
318	1,928977E+08	1,810334E+07	0,000000E+00	0,000000E+00	1,810118E+07	1,928858E+08	5,445573E+08	9,788373E+08	1,312382E+09	1,312387E+09	9,788581E+08	5,445866E+08
319	1,929096E+08	1,810735E+07	0,000000E+00	0,000000E+00	1,811039E+07	1,929181E+08	5,445916E+08	9,788650E+08	1,312383E+09	1,312346E+09	9,787834E+08	5,445270E+08
320	1,928830E+08	1,810365E+07	0,000000E+00	0,000000E+00	1,810455E+07	1,928870E+08	5,445331E+08	9,787875E+08	1,312338E+09	1,312354E+09	9,788242E+08	5,445687E+08
321	1,929168E+08	1,811409E+07	0,000000E+00	0,000000E+00	1,811115E+07	1,929076E+08	5,445624E+08	9,788050E+08	1,312322E+09	1,312326E+09	9,788093E+08	5,445604E+08
322	1,929024E+08	1,810982E+07	0,000000E+00	0,000000E+00	1,811357E+07	1,929180E+08	5,445728E+08	9,788215E+08	1,312336E+09	1,312316E+09	9,787760E+08	5,445344E+08
323	1,928937E+08	1,810758E+07	0,000000E+00	0,000000E+00	1,810535E+07	1,928855E+08	5,445274E+08	9,787749E+08	1,312324E+09	1,312355E+09	9,788470E+08	5,445909E+08
324	1,929233E+08	1,811352E+07	0,000000E+00	0,000000E+00	1,811153E+07	1,929168E+08	5,445864E+08	9,788491E+08	1,312368E+09	1,312356E+09	9,788196E+08	5,445538E+08
325	1,928887E+08	1,810321E+07	0,000000E+00	0,000000E+00	1,810438E+07	1,928964E+08	5,445686E+08	9,788527E+08	1,312399E+09	1,312387E+09	9,788309E+08	5,445567E+08
326	1,928940E+08	1,810271E+07	0,000000E+00	0,000000E+00	1,809850E+07	1,928763E+08	5,445431E+08	9,788378E+08	1,312415E+09	1,312439E+09	9,788940E+08	5,445955E+08
327	1,929068E+08	1,810433E+07	0,000000E+00	0,000000E+00	1,810500E+07	1,929102E+08	5,445997E+08	9,789098E+08	1,312470E+09	1,312455E+09	9,788675E+08	5,445503E+08
328	1,928692E+08	1,809283E+07	0,000000E+00	0,000000E+00	1,809379E+07	1,928788E+08	5,445670E+08	9,788894E+08	1,312486E+09	1,312502E+09	9,789208E+08	5,445892E+08
329	1,928917E+08	1,809726E+07	0,000000E+00	0,000000E+00	1,809478E+07	1,928843E+08	5,445897E+08	9,789236E+08	1,312502E+09	1,312505E+09	9,789329E+08	5,445997E+08
330	1,928888E+08	1,809500E+07	0,000000E+00	0,000000E+00	1,809782E+07	1,928992E+08	5,446117E+08	9,789621E+08	1,312540E+09	1,312504E+09	9,788885E+08	5,445570E+08
331	1,928690E+08	1,808974E+07	0,000000E+00	0,000000E+00	1,808834E+07	1,928630E+08	5,445539E+08	9,788950E+08	1,312510E+09	1,312531E+09	9,789479E+08	5,446076E+08
332	1,929034E+08	1,810094E+07	0,000000E+00	0,000000E+00	1,809810E+07	1,928917E+08	5,445916E+08	9,789176E+08	1,312492E+09	1,312490E+09	9,789110E+08	5,445815E+08
333	1,928831E+08	1,809605E+07	0,000000E+00	0,000000E+00	1,809857E+07	1,928933E+08	5,445839E+08	9,788950E+08	1,312457E+09	1,312440E+09	9,788574E+08	5,445556E+08
334	1,928837E+08	1,809924E+07	0,000000E+00	0,000000E+00	1,809850E+07	1,928768E+08	5,445386E+08	9,788186E+08	1,312385E+09	1,312411E+09	9,788789E+08	5,445955E+08
335	1,929162E+08	1,810955E+07	0,000000E+00	0,000000E+00	1,811110E+07	1,929186E+08	5,445880E+08	9,788470E+08	1,312359E+09	1,312338E+09	9,787961E+08	5,445386E+08
336	1,928858E+08	1,810399E+07	0,000000E+00	0,000000E+00	1,810791E+07	1,929012E+08	5,445510E+08	9,787949E+08	1,312316E+09	1,312305E+09	9,787777E+08	5,445462E+08
337	1,929091E+08	1,811380E+07	0,000000E+00	0,000000E+00	1,811152E+07	1,928981E+08	5,445358E+08	9,787569E+08	1,312261E+09	1,312266E+09	9,787759E+08	5,445632E+08
338	1,929226E+08	1,811810E+07	0,000000E+00	0,000000E+00	1,812057E+07	1,929282E+08	5,445619E+08	9,787698E+08	1,312248E+09	1,312218E+09	9,787025E+08	5,445068E+08
339	1,928972E+08	1,811489E+07	0,000000E+00	0,000000E+00	1,811517E+07	1,929000E+08	5,445080E+08	9,786943E+08	1,312199E+09	1,312224E+09	9,787498E+08	5,445553E+08
340	1,929315E+08	1,812459E+07	0,000000E+00	0,000000E+00	1,812148E+07	1,929210E+08	5,445418E+08	9,787190E+08	1,312188E+09	1,312198E+09	9,787328E+08	5,445456E+08
341	1,929179E+08	1,812011E+07	0,000000E+00	0,000000E+00	1,812325E+07	1,929312E+08	5,445596E+08	9,787485E+08	1,312210E+09	1,312182E+09	9,786870E+08	5,445089E+08
342	1,929036E+08	1,811663E+07	0,000000E+00	0,000000E+00	1,811478E+07	1,928971E+08	5,445092E+08	9,787040E+08	1,312212E+09	1,312235E+09	9,787614E+08	5,445639E+08
343	1,929325E+08	1,812209E+07	0,000000E+00	0,000000E+00	1,812014E+07	1,929252E+08	5,445614E+08	9,787707E+08	1,312256E+09	1,312245E+09	9,787426E+08	5,445299E+08
344	1,928980E+08	1,811199E+07	0,000000E+00	0,000000E+00	1,811364E+07	1,929077E+08	5,445457E+08	9,787793E+08	1,312301E+09	1,312294E+09	9,787672E+08	5,445372E+08
345	1,929024E+08	1,811079E+07	0,000000E+00	0,000000E+00	1,810718E+07	1,928897E+08	5,445310E+08	9,787729E+08	1,312312E+09	1,312339E+09	9,788318E+08	5,445800E+08
346	1,929169E+08	1,811244E+07	0,000000E+00	0,000000E+00	1,811319E+07	1,929205E+08	5,445839E+08	9,788405E+08	1,312357E+09	1,312341E+09	9,787965E+08	5,445344E+08
347	1,928817E+08	1,810183E+07	0,000000E+00	0,000000E+00	1,810205E+07	1,928889E+08	5,445504E+08	9,788231E+08	1,312378E+09	1,312389E+09	9,788513E+08	5,445750E+08
348	1,929052E+08	1,810677E+07	0,000000E+00	0,000000E+00	1,810321E+07	1,928921E+08	5,445657E+08	9,788468E+08	1,312392E+09	1,312397E+09	9,788611E+08	5,445821E+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	1,929036E+08	1,810546E+07	0,000000E+00	0,000000E+00	1,810691E+07	1,929086E+08	5,445889E+08	9,788778E+08	1,312413E+09	1,312379E+09	9,788046E+08	5,445311E+08
350	1,928798E+08	1,810020E+07	0,000000E+00	0,000000E+00	1,809951E+07	1,928767E+08	5,445279E+08	9,788012E+08	1,312373E+09	1,312398E+09	9,788606E+08	5,445823E+08
351	1,929150E+08	1,811128E+07	0,000000E+00	0,000000E+00	1,810959E+07	1,929068E+08	5,445657E+08	9,788161E+08	1,312339E+09	1,312344E+09	9,788193E+08	5,445581E+08
352	1,928958E+08	1,810669E+07	0,000000E+00	0,000000E+00	1,811082E+07	1,929113E+08	5,445648E+08	9,788079E+08	1,312319E+09	1,312300E+09	9,787653E+08	5,445315E+08
353	1,928959E+08	1,810953E+07	0,000000E+00	0,000000E+00	1,810951E+07	1,928925E+08	5,445237E+08	9,787408E+08	1,312252E+09	1,312268E+09	9,787831E+08	5,445699E+08
354	1,929296E+08	1,812022E+07	0,000000E+00	0,000000E+00	1,812112E+07	1,929285E+08	5,445616E+08	9,787569E+08	1,312221E+09	1,312195E+09	9,786985E+08	5,445117E+08
355	1,929006E+08	1,811587E+07	0,000000E+00	0,000000E+00	1,811848E+07	1,929121E+08	5,445230E+08	9,787014E+08	1,312177E+09	1,312171E+09	9,786926E+08	5,445249E+08
356	1,929240E+08	1,812565E+07	0,000000E+00	0,000000E+00	1,812246E+07	1,929102E+08	5,445073E+08	9,786600E+08	1,312125E+09	1,312140E+09	9,786966E+08	5,445439E+08
357	1,929381E+08	1,812986E+07	0,000000E+00	0,000000E+00	1,813194E+07	1,929449E+08	5,445456E+08	9,786818E+08	1,312106E+09	1,312078E+09	9,786148E+08	5,444833E+08
358	1,929088E+08	1,812539E+07	0,000000E+00	0,000000E+00	1,812679E+07	1,929170E+08	5,444936E+08	9,786175E+08	1,312071E+09	1,312091E+09	9,786620E+08	5,445315E+08
359	1,929427E+08	1,813381E+07	0,000000E+00	0,000000E+00	1,813137E+07	1,929331E+08	5,445225E+08	9,786441E+08	1,312070E+09	1,312074E+09	9,786498E+08	5,445237E+08
360	1,929295E+08	1,812941E+07	0,000000E+00	0,000000E+00	1,813267E+07	1,929415E+08	5,445374E+08	9,786790E+08	1,312113E+09	1,312082E+09	9,786164E+08	5,444878E+08
361	1,929131E+08	1,812506E+07	0,000000E+00	0,000000E+00	1,812285E+07	1,929054E+08	5,444882E+08	9,786330E+08	1,312109E+09	1,312136E+09	9,786963E+08	5,445456E+08
362	1,929428E+08	1,813075E+07	0,000000E+00	0,000000E+00	1,812806E+07	1,929319E+08	5,445333E+08	9,786851E+08	1,312136E+09	1,312135E+09	9,786756E+08	5,445140E+08
363	1,929101E+08	1,812127E+07	0,000000E+00	0,000000E+00	1,812244E+07	1,929193E+08	5,445256E+08	9,786979E+08	1,312174E+09	1,312176E+09	9,787008E+08	5,445243E+08
364	1,929147E+08	1,811984E+07	0,000000E+00	0,000000E+00	1,811598E+07	1,929013E+08	5,445151E+08	9,787009E+08	1,312195E+09	1,312222E+09	9,787592E+08	5,445639E+08
365	1,929305E+08	1,812197E+07	0,000000E+00	0,000000E+00	1,812202E+07	1,929327E+08	5,445720E+08	9,787739E+08	1,312241E+09	1,312215E+09	9,787105E+08	5,445094E+08
366	1,928919E+08	1,811113E+07	0,000000E+00	0,000000E+00	1,811153E+07	1,928999E+08	5,445311E+08	9,787517E+08	1,312267E+09	1,312271E+09	9,787661E+08	5,445479E+08
367	1,929151E+08	1,811609E+07	0,000000E+00	0,000000E+00	1,811270E+07	1,929013E+08	5,445386E+08	9,787611E+08	1,312270E+09	1,312279E+09	9,787825E+08	5,445590E+08
368	1,929147E+08	1,811547E+07	0,000000E+00	0,000000E+00	1,811767E+07	1,929217E+08	5,445636E+08	9,787928E+08	1,312294E+09	1,312265E+09	9,787305E+08	5,445101E+08
369	1,928898E+08	1,810974E+07	0,000000E+00	0,000000E+00	1,811040E+07	1,928935E+08	5,445137E+08	9,787216E+08	1,312242E+09	1,312269E+09	9,787799E+08	5,445627E+08
370	1,929272E+08	1,812109E+07	0,000000E+00	0,000000E+00	1,811991E+07	1,929197E+08	5,445450E+08	9,787298E+08	1,312199E+09	1,312200E+09	9,787286E+08	5,445371E+08
371	1,929105E+08	1,811756E+07	0,000000E+00	0,000000E+00	1,812139E+07	1,929249E+08	5,445447E+08	9,787242E+08	1,312182E+09	1,312158E+09	9,786757E+08	5,445106E+08
372	1,929112E+08	1,812101E+07	0,000000E+00	0,000000E+00	1,811984E+07	1,929032E+08	5,444986E+08	9,786532E+08	1,312121E+09	1,312136E+09	9,786942E+08	5,445461E+08
373	1,929452E+08	1,813229E+07	0,000000E+00	0,000000E+00	1,813183E+07	1,929406E+08	5,445370E+08	9,786631E+08	1,312078E+09	1,312053E+09	9,786042E+08	5,444835E+08
374	1,929131E+08	1,812774E+07	0,000000E+00	0,000000E+00	1,813070E+07	1,929275E+08	5,444977E+08	9,786058E+08	1,312036E+09	1,312032E+09	9,786012E+08	5,444987E+08
375	1,929361E+08	1,813647E+07	0,000000E+00	0,000000E+00	1,813424E+07	1,929259E+08	5,444841E+08	9,785640E+08	1,311979E+09	1,312000E+09	9,786097E+08	5,445224E+08
376	1,929508E+08	1,814041E+07	0,000000E+00	0,000000E+00	1,814349E+07	1,929604E+08	5,445269E+08	9,786044E+08	1,311984E+09	1,311952E+09	9,785334E+08	5,444633E+08
377	1,929208E+08	1,813498E+07	0,000000E+00	0,000000E+00	1,813664E+07	1,929299E+08	5,444779E+08	9,785478E+08	1,311956E+09	1,311969E+09	9,785817E+08	5,445117E+08
378	1,929552E+08	1,814317E+07	0,000000E+00	0,000000E+00	1,813950E+07	1,929381E+08	5,444918E+08	9,785581E+08	1,311948E+09	1,311954E+09	9,785709E+08	5,445038E+08
379	1,929431E+08	1,813958E+07	0,000000E+00	0,000000E+00	1,814130E+07	1,929491E+08	5,445089E+08	9,785914E+08	1,311987E+09	1,311968E+09	9,785491E+08	5,444725E+08
380	1,929262E+08	1,813497E+07	0,000000E+00	0,000000E+00	1,813171E+07	1,929157E+08	5,444648E+08	9,785498E+08	1,311988E+09	1,312024E+09	9,786282E+08	5,445287E+08
381	1,929546E+08	1,814022E+07	0,000000E+00	0,000000E+00	1,813735E+07	1,929466E+08	5,445221E+08	9,786123E+08	1,312012E+09	1,312009E+09	9,785962E+08	5,444921E+08
382	1,929192E+08	1,812999E+07	0,000000E+00	0,000000E+00	1,813231E+07	1,929349E+08	5,445176E+08	9,786396E+08	1,312069E+09	1,312059E+09	9,786190E+08	5,445001E+08
383	1,929231E+08	1,812768E+07	0,000000E+00	0,000000E+00	1,812484E+07	1,929129E+08	5,445002E+08	9,786388E+08	1,312095E+09	1,312114E+09	9,786829E+08	5,445414E+08
384	1,929395E+08	1,813040E+07	0,000000E+00	0,000000E+00	1,813097E+07	1,929422E+08	5,445525E+08	9,787132E+08	1,312154E+09	1,312121E+09	9,786434E+08	5,444890E+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	1,929006E+08	1,811948E+07	0,000000E+00	0,000000E+00	1,812031E+07	1,929097E+08	5,445107E+08	9,786805E+08	1,312161E+09	1,312168E+09	9,786994E+08	5,445299E+08
386	1,929255E+08	1,812514E+07	0,000000E+00	0,000000E+00	1,812167E+07	1,929091E+08	5,445074E+08	9,786664E+08	1,312137E+09	1,312156E+09	9,787091E+08	5,445431E+08
387	1,929284E+08	1,812570E+07	0,000000E+00	0,000000E+00	1,812787E+07	1,929351E+08	5,445411E+08	9,786987E+08	1,312146E+09	1,312128E+09	9,786533E+08	5,444959E+08
388	1,929051E+08	1,812053E+07	0,000000E+00	0,000000E+00	1,812084E+07	1,929068E+08	5,444939E+08	9,786356E+08	1,312100E+09	1,312124E+09	9,786887E+08	5,445417E+08
389	1,929431E+08	1,813255E+07	0,000000E+00	0,000000E+00	1,813045E+07	1,929332E+08	5,445257E+08	9,786435E+08	1,312055E+09	1,312045E+09	9,786227E+08	5,445073E+08
390	1,929243E+08	1,812936E+07	0,000000E+00	0,000000E+00	1,813293E+07	1,929384E+08	5,445204E+08	9,786355E+08	1,312046E+09	1,312014E+09	9,785717E+08	5,444783E+08
391	1,929237E+08	1,813255E+07	0,000000E+00	0,000000E+00	1,813140E+07	1,929158E+08	5,444694E+08	9,785556E+08	1,311980E+09	1,311999E+09	9,786028E+08	5,445190E+08
392	1,929574E+08	1,814390E+07	0,000000E+00	0,000000E+00	1,814418E+07	1,929565E+08	5,445130E+08	9,785749E+08	1,311950E+09	1,311926E+09	9,785228E+08	5,444619E+08
393	1,929247E+08	1,813840E+07	0,000000E+00	0,000000E+00	1,814256E+07	1,929451E+08	5,444829E+08	9,785254E+08	1,311904E+09	1,311901E+09	9,785201E+08	5,444799E+08
394	1,929489E+08	1,814663E+07	0,000000E+00	0,000000E+00	1,814452E+07	1,929373E+08	5,444604E+08	9,784778E+08	1,311845E+09	1,311866E+09	9,785262E+08	5,445046E+08
395	1,929658E+08	1,815102E+07	0,000000E+00	0,000000E+00	1,815335E+07	1,929715E+08	5,445032E+08	9,785188E+08	1,311852E+09	1,311825E+09	9,784558E+08	5,444468E+08
396	1,929358E+08	1,814559E+07	0,000000E+00	0,000000E+00	1,814574E+07	1,929382E+08	5,444514E+08	9,784632E+08	1,311833E+09	1,311848E+09	9,785035E+08	5,444921E+08
397	1,929691E+08	1,815361E+07	0,000000E+00	0,000000E+00	1,814876E+07	1,929484E+08	5,444669E+08	9,784695E+08	1,311815E+09	1,311823E+09	9,784870E+08	5,444802E+08
398	1,929538E+08	1,814953E+07	0,000000E+00	0,000000E+00	1,815169E+07	1,929632E+08	5,444886E+08	9,785087E+08	1,311861E+09	1,311842E+09	9,784656E+08	5,444486E+08
399	1,929352E+08	1,814354E+07	0,000000E+00	0,000000E+00	1,814155E+07	1,929305E+08	5,444508E+08	9,784769E+08	1,311868E+09	1,311903E+09	9,785499E+08	5,445069E+08
400	1,929629E+08	1,814844E+07	0,000000E+00	0,000000E+00	1,814690E+07	1,929602E+08	5,445121E+08	9,785602E+08	1,311920E+09	1,311903E+09	9,785229E+08	5,444714E+08
401	1,929273E+08	1,813765E+07	0,000000E+00	0,000000E+00	1,814060E+07	1,929462E+08	5,445072E+08	9,785890E+08	1,311983E+09	1,311960E+09	9,785481E+08	5,444797E+08
402	1,929320E+08	1,813562E+07	0,000000E+00	0,000000E+00	1,813211E+07	1,929171E+08	5,444725E+08	9,785644E+08	1,311993E+09	1,312013E+09	9,786153E+08	5,445239E+08
403	1,929515E+08	1,813968E+07	0,000000E+00	0,000000E+00	1,813927E+07	1,929494E+08	5,445239E+08	9,786270E+08	1,312034E+09	1,312016E+09	9,785837E+08	5,444771E+08
404	1,929145E+08	1,812952E+07	0,000000E+00	0,000000E+00	1,812956E+07	1,929203E+08	5,444862E+08	9,785933E+08	1,312033E+09	1,312050E+09	9,786291E+08	5,445158E+08
405	1,929401E+08	1,813559E+07	0,000000E+00	0,000000E+00	1,813189E+07	1,929236E+08	5,444890E+08	9,785788E+08	1,311993E+09	1,312012E+09	9,786200E+08	5,445222E+08
406	1,929418E+08	1,813626E+07	0,000000E+00	0,000000E+00	1,813899E+07	1,929509E+08	5,445249E+08	9,786204E+08	1,312013E+09	1,311984E+09	9,785544E+08	5,444691E+08
407	1,929177E+08	1,813084E+07	0,000000E+00	0,000000E+00	1,813169E+07	1,929205E+08	5,444733E+08	9,785538E+08	1,311972E+09	1,311988E+09	9,785924E+08	5,445125E+08
408	1,929541E+08	1,814326E+07	0,000000E+00	0,000000E+00	1,814150E+07	1,929453E+08	5,445025E+08	9,785662E+08	1,311939E+09	1,311920E+09	9,785342E+08	5,444800E+08
409	1,929351E+08	1,814002E+07	0,000000E+00	0,000000E+00	1,814423E+07	1,929527E+08	5,444982E+08	9,785512E+08	1,311919E+09	1,311887E+09	9,784879E+08	5,444547E+08
410	1,929354E+08	1,814333E+07	0,000000E+00	0,000000E+00	1,814247E+07	1,929276E+08	5,444382E+08	9,784518E+08	1,311832E+09	1,311860E+09	9,785184E+08	5,445004E+08
411	1,929720E+08	1,815513E+07	0,000000E+00	0,000000E+00	1,815569E+07	1,929720E+08	5,444903E+08	9,784763E+08	1,311794E+09	1,311784E+09	9,784428E+08	5,444484E+08
412	1,929420E+08	1,815006E+07	0,000000E+00	0,000000E+00	1,815357E+07	1,929585E+08	5,444614E+08	9,784380E+08	1,311763E+09	1,311758E+09	9,784311E+08	5,444615E+08
413	1,929657E+08	1,815803E+07	0,000000E+00	0,000000E+00	1,815473E+07	1,929488E+08	5,444352E+08	9,783865E+08	1,311703E+09	1,311718E+09	9,784278E+08	5,444786E+08
414	1,929798E+08	1,816227E+07	0,000000E+00	0,000000E+00	1,816380E+07	1,929826E+08	5,444769E+08	9,784303E+08	1,311721E+09	1,311690E+09	9,783607E+08	5,444184E+08
415	1,929474E+08	1,815583E+07	0,000000E+00	0,000000E+00	1,815599E+07	1,929500E+08	5,444256E+08	9,783744E+08	1,311704E+09	1,311723E+09	9,784191E+08	5,444658E+08
416	1,929779E+08	1,816305E+07	0,000000E+00	0,000000E+00	1,815920E+07	1,929631E+08	5,444513E+08	9,784018E+08	1,311708E+09	1,311710E+09	9,784112E+08	5,444582E+08
417	1,929616E+08	1,815773E+07	0,000000E+00	0,000000E+00	1,816147E+07	1,929799E+08	5,444831E+08	9,784543E+08	1,311762E+09	1,311735E+09	9,783944E+08	5,444294E+08
418	1,929434E+08	1,815109E+07	0,000000E+00	0,000000E+00	1,814957E+07	1,929400E+08	5,444348E+08	9,784165E+08	1,311772E+09	1,311800E+09	9,784815E+08	5,444900E+08
419	1,929734E+08	1,815659E+07	0,000000E+00	0,000000E+00	1,815464E+07	1,929687E+08	5,444936E+08	9,784942E+08	1,311821E+09	1,311811E+09	9,784663E+08	5,444597E+08
420	1,929407E+08	1,814680E+07	0,000000E+00	0,000000E+00	1,814796E+07	1,929513E+08	5,444816E+08	9,785159E+08	1,311883E+09	1,311867E+09	9,784876E+08	5,444657E+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												
421	1,929452E+08	1,814520E+07	0,000000E+00	0,000000E+00	1,814059E+07	1,929250E+08	5,444428E+08	9,784734E+08	1,311865E+09	1,311894E+09	9,785415E+08	5,445062E+08
422	1,929641E+08	1,814978E+07	0,000000E+00	0,000000E+00	1,814937E+07	1,929619E+08	5,444987E+08	9,785349E+08	1,311898E+09	1,311885E+09	9,784986E+08	5,444561E+08
423	1,929266E+08	1,813905E+07	0,000000E+00	0,000000E+00	1,814027E+07	1,929358E+08	5,444680E+08	9,785075E+08	1,311894E+09	1,311909E+09	9,785385E+08	5,444923E+08
424	1,929514E+08	1,814542E+07	0,000000E+00	0,000000E+00	1,814290E+07	1,929388E+08	5,444752E+08	9,785120E+08	1,311874E+09	1,311876E+09	9,785255E+08	5,444958E+08
425	1,929525E+08	1,814590E+07	0,000000E+00	0,000000E+00	1,814950E+07	1,929655E+08	5,445095E+08	9,785496E+08	1,311896E+09	1,311854E+09	9,784612E+08	5,444411E+08
426	1,929284E+08	1,814109E+07	0,000000E+00	0,000000E+00	1,814163E+07	1,929296E+08	5,444436E+08	9,784627E+08	1,311842E+09	1,311859E+09	9,785049E+08	5,444873E+08
427	1,929666E+08	1,815429E+07	0,000000E+00	0,000000E+00	1,815243E+07	1,929582E+08	5,444744E+08	9,784662E+08	1,311796E+09	1,311793E+09	9,784583E+08	5,444620E+08
428	1,929503E+08	1,815184E+07	0,000000E+00	0,000000E+00	1,815558E+07	1,929669E+08	5,444741E+08	9,784565E+08	1,311777E+09	1,311753E+09	9,784055E+08	5,444373E+08
429	1,929514E+08	1,815510E+07	0,000000E+00	0,000000E+00	1,815425E+07	1,929441E+08	5,444174E+08	9,783576E+08	1,311679E+09	1,311707E+09	9,784231E+08	5,444795E+08
430	1,929879E+08	1,816673E+07	0,000000E+00	0,000000E+00	1,816726E+07	1,929868E+08	5,444690E+08	9,783899E+08	1,311656E+09	1,311636E+09	9,783416E+08	5,444233E+08
431	1,929570E+08	1,816108E+07	0,000000E+00	0,000000E+00	1,816459E+07	1,929711E+08	5,444372E+08	9,783504E+08	1,311630E+09	1,311621E+09	9,783371E+08	5,444348E+08
432	1,929780E+08	1,816867E+07	0,000000E+00	0,000000E+00	1,816528E+07	1,929599E+08	5,444110E+08	9,783083E+08	1,311584E+09	1,311594E+09	9,783415E+08	5,444519E+08
433	1,929895E+08	1,817198E+07	0,000000E+00	0,000000E+00	1,817413E+07	1,929962E+08	5,444562E+08	9,783503E+08	1,311601E+09	1,311571E+09	9,782817E+08	5,443948E+08
434	1,929562E+08	1,816488E+07	0,000000E+00	0,000000E+00	1,816550E+07	1,929618E+08	5,444026E+08	9,782887E+08	1,311578E+09	1,311603E+09	9,783440E+08	5,444463E+08
435	1,929878E+08	1,817173E+07	0,000000E+00	0,000000E+00	1,816854E+07	1,929772E+08	5,444374E+08	9,783281E+08	1,311588E+09	1,311598E+09	9,783456E+08	5,444446E+08
436	1,929751E+08	1,816704E+07	0,000000E+00	0,000000E+00	1,816977E+07	1,929897E+08	5,444677E+08	9,783924E+08	1,311662E+09	1,311630E+09	9,783253E+08	5,444145E+08
437	1,929571E+08	1,816038E+07	0,000000E+00	0,000000E+00	1,815753E+07	1,929478E+08	5,444117E+08	9,783424E+08	1,311662E+09	1,311688E+09	9,784055E+08	5,444706E+08
438	1,929860E+08	1,816622E+07	0,000000E+00	0,000000E+00	1,816308E+07	1,929760E+08	5,444668E+08	9,784146E+08	1,311711E+09	1,311702E+09	9,783909E+08	5,444395E+08
439	1,929526E+08	1,815607E+07	0,000000E+00	0,000000E+00	1,815722E+07	1,929616E+08	5,444557E+08	9,784293E+08	1,311760E+09	1,311753E+09	9,784155E+08	5,444455E+08
440	1,929549E+08	1,815418E+07	0,000000E+00	0,000000E+00	1,815074E+07	1,929391E+08	5,444265E+08	9,784015E+08	1,311749E+09	1,311775E+09	9,784648E+08	5,444852E+08
441	1,929730E+08	1,815819E+07	0,000000E+00	0,000000E+00	1,815958E+07	1,929787E+08	5,444899E+08	9,784707E+08	1,311784E+09	1,311763E+09	9,784167E+08	5,444336E+08
442	1,929359E+08	1,814754E+07	0,000000E+00	0,000000E+00	1,814961E+07	1,929477E+08	5,444495E+08	9,784340E+08	1,311776E+09	1,311783E+09	9,784515E+08	5,444676E+08
443	1,929620E+08	1,815471E+07	0,000000E+00	0,000000E+00	1,815248E+07	1,929508E+08	5,444554E+08	9,784325E+08	1,311754E+09	1,311759E+09	9,784484E+08	5,444752E+08
444	1,929670E+08	1,815678E+07	0,000000E+00	0,000000E+00	1,815905E+07	1,929748E+08	5,444837E+08	9,784651E+08	1,311773E+09	1,311734E+09	9,783828E+08	5,444214E+08
445	1,929432E+08	1,815258E+07	0,000000E+00	0,000000E+00	1,815244E+07	1,929414E+08	5,444124E+08	9,783591E+08	1,311693E+09	1,311717E+09	9,784163E+08	5,444659E+08
446	1,929815E+08	1,816613E+07	0,000000E+00	0,000000E+00	1,816422E+07	1,929734E+08	5,444489E+08	9,783647E+08	1,311643E+09	1,311644E+09	9,783627E+08	5,444403E+08
447	1,929661E+08	1,816337E+07	0,000000E+00	0,000000E+00	1,816778E+07	1,929832E+08	5,444520E+08	9,783600E+08	1,311624E+09	1,311600E+09	9,783083E+08	5,444132E+08
448	1,929659E+08	1,816657E+07	0,000000E+00	0,000000E+00	1,816614E+07	1,929589E+08	5,443979E+08	9,782793E+08	1,311547E+09	1,311561E+09	9,783227E+08	5,444520E+08
449	1,930007E+08	1,817747E+07	0,000000E+00	0,000000E+00	1,817824E+07	1,930003E+08	5,444473E+08	9,783079E+08	1,311529E+09	1,311501E+09	9,782460E+08	5,443946E+08
450	1,929686E+08	1,817174E+07	0,000000E+00	0,000000E+00	1,817477E+07	1,929805E+08	5,444057E+08	9,782541E+08	1,311494E+09	1,311490E+09	9,782493E+08	5,444089E+08
451	1,929894E+08	1,817910E+07	0,000000E+00	0,000000E+00	1,817574E+07	1,929736E+08	5,443869E+08	9,782138E+08	1,311448E+09	1,311473E+09	9,782694E+08	5,444340E+08
452	1,930032E+08	1,818264E+07	0,000000E+00	0,000000E+00	1,818406E+07	1,930097E+08	5,444389E+08	9,782712E+08	1,311477E+09	1,311453E+09	9,782102E+08	5,443794E+08
453	1,929697E+08	1,817481E+07	0,000000E+00	0,000000E+00	1,817526E+07	1,929758E+08	5,443870E+08	9,782144E+08	1,311456E+09	1,311479E+09	9,782646E+08	5,444276E+08
454	1,930002E+08	1,818119E+07	0,000000E+00	0,000000E+00	1,817770E+07	1,929890E+08	5,444216E+08	9,782620E+08	1,311484E+09	1,311485E+09	9,782654E+08	5,444239E+08
455	1,929872E+08	1,817607E+07	0,000000E+00	0,000000E+00	1,817848E+07	1,929986E+08	5,444465E+08	9,783214E+08	1,311559E+09	1,311528E+09	9,782550E+08	5,443937E+08
456	1,929673E+08	1,816916E+07	0,000000E+00	0,000000E+00	1,816635E+07	1,929566E+08	5,443909E+08	9,782773E+08	1,311564E+09	1,311586E+09	9,783363E+08	5,444496E+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	1,929943E+08	1,817436E+07	0,000000E+00	0,000000E+00	1,817219E+07	1,929874E+08	5,444457E+08	9,783380E+08	1,311599E+09	1,311594E+09	9,783209E+08	5,444196E+08
458	1,929608E+08	1,816412E+07	0,000000E+00	0,000000E+00	1,816621E+07	1,929730E+08	5,444340E+08	9,783447E+08	1,311631E+09	1,311631E+09	9,783407E+08	5,444268E+08
459	1,929648E+08	1,816248E+07	0,000000E+00	0,000000E+00	1,816022E+07	1,929539E+08	5,444131E+08	9,783248E+08	1,311622E+09	1,311654E+09	9,783911E+08	5,444679E+08
460	1,929866E+08	1,816778E+07	0,000000E+00	0,000000E+00	1,816822E+07	1,929889E+08	5,444729E+08	9,784014E+08	1,311671E+09	1,311642E+09	9,783359E+08	5,444137E+08
461	1,929502E+08	1,815787E+07	0,000000E+00	0,000000E+00	1,815882E+07	1,929575E+08	5,444243E+08	9,783497E+08	1,311651E+09	1,311653E+09	9,783621E+08	5,444424E+08
462	1,929756E+08	1,816582E+07	0,000000E+00	0,000000E+00	1,816253E+07	1,929609E+08	5,444271E+08	9,783415E+08	1,311625E+09	1,311630E+09	9,783585E+08	5,444498E+08
463	1,929806E+08	1,816801E+07	0,000000E+00	0,000000E+00	1,817030E+07	1,929883E+08	5,444571E+08	9,783679E+08	1,311632E+09	1,311601E+09	9,782981E+08	5,443986E+08
464	1,929561E+08	1,816386E+07	0,000000E+00	0,000000E+00	1,816469E+07	1,929584E+08	5,443956E+08	9,782781E+08	1,311556E+09	1,311577E+09	9,783259E+08	5,444426E+08
465	1,929937E+08	1,817659E+07	0,000000E+00	0,000000E+00	1,817611E+07	1,929910E+08	5,444339E+08	9,782859E+08	1,311510E+09	1,311505E+09	9,782703E+08	5,444158E+08
466	1,929786E+08	1,817390E+07	0,000000E+00	0,000000E+00	1,817873E+07	1,929959E+08	5,444274E+08	9,782703E+08	1,311487E+09	1,311461E+09	9,782160E+08	5,443884E+08
467	1,929792E+08	1,817735E+07	0,000000E+00	0,000000E+00	1,817691E+07	1,929719E+08	5,443731E+08	9,781846E+08	1,311411E+09	1,311435E+09	9,782414E+08	5,444304E+08
468	1,930160E+08	1,818904E+07	0,000000E+00	0,000000E+00	1,818821E+07	1,930097E+08	5,444182E+08	9,782146E+08	1,311395E+09	1,311374E+09	9,781650E+08	5,443744E+08
469	1,929833E+08	1,818323E+07	0,000000E+00	0,000000E+00	1,818566E+07	1,929935E+08	5,443765E+08	9,781514E+08	1,311344E+09	1,311348E+09	9,781606E+08	5,443866E+08
470	1,930026E+08	1,818994E+07	0,000000E+00	0,000000E+00	1,818662E+07	1,929892E+08	5,443685E+08	9,781268E+08	1,311310E+09	1,311334E+09	9,781788E+08	5,444118E+08
471	1,930162E+08	1,819273E+07	0,000000E+00	0,000000E+00	1,819467E+07	1,930246E+08	5,444246E+08	9,781970E+08	1,311352E+09	1,311324E+09	9,781276E+08	5,443585E+08
472	1,929816E+08	1,818437E+07	0,000000E+00	0,000000E+00	1,818498E+07	1,929878E+08	5,443743E+08	9,781580E+08	1,311355E+09	1,311363E+09	9,781831E+08	5,444035E+08
473	1,930095E+08	1,818970E+07	0,000000E+00	0,000000E+00	1,818645E+07	1,929989E+08	5,444035E+08	9,781977E+08	1,311388E+09	1,311385E+09	9,781932E+08	5,444008E+08
474	1,929957E+08	1,818452E+07	0,000000E+00	0,000000E+00	1,818664E+07	1,930050E+08	5,444175E+08	9,782383E+08	1,311447E+09	1,311425E+09	9,781881E+08	5,443736E+08
475	1,929759E+08	1,817736E+07	0,000000E+00	0,000000E+00	1,817522E+07	1,929686E+08	5,443695E+08	9,781926E+08	1,311444E+09	1,311485E+09	9,782769E+08	5,444357E+08
476	1,930062E+08	1,818334E+07	0,000000E+00	0,000000E+00	1,818062E+07	1,929982E+08	5,444291E+08	9,782657E+08	1,311484E+09	1,311483E+09	9,782551E+08	5,444065E+08
477	1,929738E+08	1,817315E+07	0,000000E+00	0,000000E+00	1,817513E+07	1,929849E+08	5,444165E+08	9,782702E+08	1,311509E+09	1,311503E+09	9,782588E+08	5,444073E+08
478	1,929776E+08	1,817205E+07	0,000000E+00	0,000000E+00	1,816920E+07	1,929652E+08	5,443965E+08	9,782555E+08	1,311510E+09	1,311531E+09	9,783035E+08	5,444437E+08
479	1,929993E+08	1,817778E+07	0,000000E+00	0,000000E+00	1,817763E+07	1,929987E+08	5,444503E+08	9,783219E+08	1,311553E+09	1,311525E+09	9,782557E+08	5,443899E+08
480	1,929621E+08	1,816836E+07	0,000000E+00	0,000000E+00	1,816922E+07	1,929688E+08	5,444025E+08	9,782734E+08	1,311531E+09	1,311531E+09	9,782785E+08	5,444163E+08
481	1,929851E+08	1,817582E+07	0,000000E+00	0,000000E+00	1,817381E+07	1,929762E+08	5,444052E+08	9,782530E+08	1,311493E+09	1,311502E+09	9,782750E+08	5,444257E+08
482	1,929909E+08	1,817810E+07	0,000000E+00	0,000000E+00	1,818159E+07	1,930029E+08	5,444331E+08	9,782708E+08	1,311483E+09	1,311459E+09	9,782103E+08	5,443769E+08
483	1,929689E+08	1,817437E+07	0,000000E+00	0,000000E+00	1,817656E+07	1,929758E+08	5,443775E+08	9,781866E+08	1,311411E+09	1,311437E+09	9,782396E+08	5,444238E+08
484	1,930108E+08	1,818831E+07	0,000000E+00	0,000000E+00	1,818654E+07	1,930018E+08	5,444092E+08	9,781981E+08	1,311374E+09	1,311365E+09	9,781798E+08	5,443950E+08
485	1,929957E+08	1,818601E+07	0,000000E+00	0,000000E+00	1,818963E+07	1,930068E+08	5,443955E+08	9,781671E+08	1,311336E+09	1,311312E+09	9,781182E+08	5,443627E+08
486	1,929949E+08	1,818971E+07	0,000000E+00	0,000000E+00	1,818809E+07	1,929845E+08	5,443448E+08	9,780844E+08	1,311263E+09	1,311288E+09	9,781434E+08	5,444031E+08
487	1,930295E+08	1,820061E+07	0,000000E+00	0,000000E+00	1,819981E+07	1,930247E+08	5,443948E+08	9,781185E+08	1,311249E+09	1,311234E+09	9,780772E+08	5,443510E+08
488	1,929956E+08	1,819415E+07	0,000000E+00	0,000000E+00	1,819738E+07	1,930112E+08	5,443669E+08	9,780841E+08	1,311220E+09	1,311213E+09	9,780713E+08	5,443613E+08
489	1,930120E+08	1,819906E+07	0,000000E+00	0,000000E+00	1,819727E+07	1,930055E+08	5,443586E+08	9,780656E+08	1,311203E+09	1,311215E+09	9,780957E+08	5,443867E+08
490	1,930249E+08	1,820149E+07	0,000000E+00	0,000000E+00	1,820376E+07	1,930345E+08	5,444043E+08	9,781266E+08	1,311247E+09	1,311217E+09	9,780549E+08	5,443383E+08
491	1,929919E+08	1,819308E+07	0,000000E+00	0,000000E+00	1,819369E+07	1,929974E+08	5,443526E+08	9,780821E+08	1,311251E+09	1,311272E+09	9,781250E+08	5,443887E+08
492	1,930219E+08	1,819894E+07	0,000000E+00	0,000000E+00	1,819395E+07	1,930035E+08	5,443748E+08	9,781179E+08	1,311279E+09	1,311288E+09	9,781356E+08	5,443886E+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												
493	1,930084E+08	1,819382E+07	0,000000E+00	0,000000E+00	1,819521E+07	1,930137E+08	5,443885E+08	9,781446E+08	1,311314E+09	1,311304E+09	9,781174E+08	5,443587E+08
494	1,929884E+08	1,818659E+07	0,000000E+00	0,000000E+00	1,818416E+07	1,929811E+08	5,443522E+08	9,781132E+08	1,311315E+09	1,311353E+09	9,781940E+08	5,444163E+08
495	1,930183E+08	1,819244E+07	0,000000E+00	0,000000E+00	1,818989E+07	1,930101E+08	5,444137E+08	9,781948E+08	1,311364E+09	1,311356E+09	9,781729E+08	5,443855E+08
496	1,929857E+08	1,818257E+07	0,000000E+00	0,000000E+00	1,818457E+07	1,929971E+08	5,444050E+08	9,782136E+08	1,311404E+09	1,311381E+09	9,781701E+08	5,443792E+08
497	1,929862E+08	1,818102E+07	0,000000E+00	0,000000E+00	1,817887E+07	1,929771E+08	5,443788E+08	9,781874E+08	1,311406E+09	1,311420E+09	9,782217E+08	5,444150E+08
498	1,930068E+08	1,818708E+07	0,000000E+00	0,000000E+00	1,818740E+07	1,930090E+08	5,444238E+08	9,782344E+08	1,311428E+09	1,311408E+09	9,781807E+08	5,443678E+08
499	1,929720E+08	1,817804E+07	0,000000E+00	0,000000E+00	1,818027E+07	1,929849E+08	5,443825E+08	9,781829E+08	1,311400E+09	1,311415E+09	9,782088E+08	5,444000E+08
500	1,929988E+08	1,818640E+07	0,000000E+00	0,000000E+00	1,818417E+07	1,929891E+08	5,443860E+08	9,781707E+08	1,311362E+09	1,311374E+09	9,781983E+08	5,444113E+08
501	1,930068E+08	1,818906E+07	0,000000E+00	0,000000E+00	1,819242E+07	1,930159E+08	5,444085E+08	9,781785E+08	1,311338E+09	1,311311E+09	9,781173E+08	5,443566E+08
502	1,929854E+08	1,818611E+07	0,000000E+00	0,000000E+00	1,818747E+07	1,929887E+08	5,443544E+08	9,780976E+08	1,311271E+09	1,311288E+09	9,781393E+08	5,443987E+08
503	1,930267E+08	1,820021E+07	0,000000E+00	0,000000E+00	1,819763E+07	1,930128E+08	5,443804E+08	9,781009E+08	1,311230E+09	1,311223E+09	9,780869E+08	5,443701E+08
504	1,930101E+08	1,819805E+07	0,000000E+00	0,000000E+00	1,820143E+07	1,930204E+08	5,443716E+08	9,780772E+08	1,311192E+09	1,311164E+09	9,780198E+08	5,443333E+08
505	1,930055E+08	1,820060E+07	0,000000E+00	0,000000E+00	1,820019E+07	1,930021E+08	5,443254E+08	9,779947E+08	1,311122E+09	1,311147E+09	9,780502E+08	5,443742E+08
506	1,930383E+08	1,821067E+07	0,000000E+00	0,000000E+00	1,821102E+07	1,930400E+08	5,443755E+08	9,780308E+08	1,311109E+09	1,311095E+09	9,779891E+08	5,443279E+08
507	1,930069E+08	1,820400E+07	0,000000E+00	0,000000E+00	1,820819E+07	1,930265E+08	5,443512E+08	9,780083E+08	1,311102E+09	1,311096E+09	9,779945E+08	5,443430E+08
508	1,930262E+08	1,820928E+07	0,000000E+00	0,000000E+00	1,820586E+07	1,930129E+08	5,443358E+08	9,779948E+08	1,311099E+09	1,311109E+09	9,780252E+08	5,443708E+08
509	1,930394E+08	1,821172E+07	0,000000E+00	0,000000E+00	1,821234E+07	1,930402E+08	5,443711E+08	9,780355E+08	1,311124E+09	1,311101E+09	9,779822E+08	5,443214E+08
510	1,930059E+08	1,820342E+07	0,000000E+00	0,000000E+00	1,820255E+07	1,930064E+08	5,443256E+08	9,779947E+08	1,311125E+09	1,311150E+09	9,780497E+08	5,443711E+08
511	1,930341E+08	1,820852E+07	0,000000E+00	0,000000E+00	1,820340E+07	1,930147E+08	5,443521E+08	9,780319E+08	1,311150E+09	1,311167E+09	9,780643E+08	5,443724E+08
512	1,930197E+08	1,820293E+07	0,000000E+00	0,000000E+00	1,820501E+07	1,930286E+08	5,443805E+08	9,780841E+08	1,311199E+09	1,311178E+09	9,780341E+08	5,443352E+08
513	1,929963E+08	1,819449E+07	0,000000E+00	0,000000E+00	1,819377E+07	1,929967E+08	5,443452E+08	9,780591E+08	1,311217E+09	1,311240E+09	9,781113E+08	5,443883E+08
514	1,930241E+08	1,820025E+07	0,000000E+00	0,000000E+00	1,819864E+07	1,930208E+08	5,443968E+08	9,781299E+08	1,311262E+09	1,311249E+09	9,780971E+08	5,443619E+08
515	1,929943E+08	1,819102E+07	0,000000E+00	0,000000E+00	1,819381E+07	1,930087E+08	5,443861E+08	9,781425E+08	1,311304E+09	1,311287E+09	9,781057E+08	5,443608E+08
516	1,929975E+08	1,819055E+07	0,000000E+00	0,000000E+00	1,818765E+07	1,929853E+08	5,443531E+08	9,781079E+08	1,311294E+09	1,311314E+09	9,781571E+08	5,444009E+08
517	1,930195E+08	1,819703E+07	0,000000E+00	0,000000E+00	1,819735E+07	1,930202E+08	5,443952E+08	9,781358E+08	1,311284E+09	1,311274E+09	9,781027E+08	5,443533E+08
518	1,929873E+08	1,818887E+07	0,000000E+00	0,000000E+00	1,819100E+07	1,929995E+08	5,443631E+08	9,780944E+08	1,311253E+09	1,311265E+09	9,781168E+08	5,443813E+08
519	1,930147E+08	1,819763E+07	0,000000E+00	0,000000E+00	1,819510E+07	1,930009E+08	5,443615E+08	9,780801E+08	1,311218E+09	1,311226E+09	9,781045E+08	5,443902E+08
520	1,930233E+08	1,820095E+07	0,000000E+00	0,000000E+00	1,820356E+07	1,930286E+08	5,443877E+08	9,780962E+08	1,311201E+09	1,311162E+09	9,780126E+08	5,443262E+08
521	1,929982E+08	1,819761E+07	0,000000E+00	0,000000E+00	1,819921E+07	1,930028E+08	5,443292E+08	9,780063E+08	1,311133E+09	1,311145E+09	9,780376E+08	5,443642E+08
522	1,930361E+08	1,821125E+07	0,000000E+00	0,000000E+00	1,820915E+07	1,930261E+08	5,443511E+08	9,779991E+08	1,311081E+09	1,311079E+09	9,779939E+08	5,443432E+08
523	1,930214E+08	1,820898E+07	0,000000E+00	0,000000E+00	1,821374E+07	1,930391E+08	5,443531E+08	9,779864E+08	1,311054E+09	1,311035E+09	9,779378E+08	5,443129E+08
524	1,930189E+08	1,821147E+07	0,000000E+00	0,000000E+00	1,821077E+07	1,930157E+08	5,443085E+08	9,779191E+08	1,310999E+09	1,311022E+09	9,779719E+08	5,443574E+08
525	1,930524E+08	1,822115E+07	0,000000E+00	0,000000E+00	1,822112E+07	1,930515E+08	5,443520E+08	9,779472E+08	1,310981E+09	1,310966E+09	9,779078E+08	5,443110E+08
526	1,930229E+08	1,821504E+07	0,000000E+00	0,000000E+00	1,821773E+07	1,930365E+08	5,443282E+08	9,779286E+08	1,310982E+09	1,310973E+09	9,779140E+08	5,443241E+08
527	1,930404E+08	1,821976E+07	0,000000E+00	0,000000E+00	1,821515E+07	1,930200E+08	5,443054E+08	9,779067E+08	1,310977E+09	1,310995E+09	9,779535E+08	5,443534E+08
528	1,930524E+08	1,822191E+07	0,000000E+00	0,000000E+00	1,822209E+07	1,930511E+08	5,443486E+08	9,779542E+08	1,310998E+09	1,310976E+09	9,779013E+08	5,442986E+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												
529	1,930147E+08	1,821211E+07	0,000000E+00	0,000000E+00	1,821281E+07	1,930222E+08	5,443106E+08	9,779180E+08	1,311002E+09	1,311025E+09	9,779668E+08	5,443451E+08
530	1,930401E+08	1,821621E+07	0,000000E+00	0,000000E+00	1,821286E+07	1,930287E+08	5,443383E+08	9,779607E+08	1,311028E+09	1,311041E+09	9,779840E+08	5,443514E+08
531	1,930286E+08	1,821082E+07	0,000000E+00	0,000000E+00	1,821432E+07	1,930429E+08	5,443695E+08	9,780245E+08	1,311101E+09	1,311075E+09	9,779621E+08	5,443160E+08
532	1,930074E+08	1,820312E+07	0,000000E+00	0,000000E+00	1,820140E+07	1,930043E+08	5,443276E+08	9,780005E+08	1,311129E+09	1,311146E+09	9,780447E+08	5,443701E+08
533	1,930351E+08	1,820932E+07	0,000000E+00	0,000000E+00	1,820683E+07	1,930272E+08	5,443676E+08	9,780465E+08	1,311149E+09	1,311142E+09	9,780276E+08	5,443449E+08
534	1,930076E+08	1,820117E+07	0,000000E+00	0,000000E+00	1,820281E+07	1,930189E+08	5,443617E+08	9,780585E+08	1,311181E+09	1,311167E+09	9,780317E+08	5,443444E+08
535	1,930107E+08	1,820081E+07	0,000000E+00	0,000000E+00	1,819779E+07	1,929970E+08	5,443296E+08	9,780202E+08	1,311161E+09	1,311188E+09	9,780823E+08	5,443865E+08
536	1,930342E+08	1,820752E+07	0,000000E+00	0,000000E+00	1,820798E+07	1,930343E+08	5,443802E+08	9,780600E+08	1,311151E+09	1,311131E+09	9,780088E+08	5,443299E+08
537	1,929999E+08	1,819913E+07	0,000000E+00	0,000000E+00	1,820233E+07	1,930154E+08	5,443465E+08	9,780172E+08	1,311126E+09	1,311126E+09	9,780187E+08	5,443513E+08
538	1,930254E+08	1,820805E+07	0,000000E+00	0,000000E+00	1,820592E+07	1,930130E+08	5,443350E+08	9,779880E+08	1,311080E+09	1,311087E+09	9,780110E+08	5,443634E+08
539	1,930357E+08	1,821188E+07	0,000000E+00	0,000000E+00	1,821502E+07	1,930423E+08	5,443599E+08	9,780006E+08	1,311067E+09	1,311035E+09	9,779270E+08	5,443022E+08
540	1,930120E+08	1,820929E+07	0,000000E+00	0,000000E+00	1,821018E+07	1,930149E+08	5,443013E+08	9,779108E+08	1,310995E+09	1,311013E+09	9,779532E+08	5,443428E+08
541	1,930491E+08	1,822247E+07	0,000000E+00	0,000000E+00	1,822055E+07	1,930401E+08	5,443228E+08	9,778935E+08	1,310923E+09	1,310929E+09	9,779016E+08	5,443230E+08
542	1,930373E+08	1,822078E+07	0,000000E+00	0,000000E+00	1,822518E+07	1,930551E+08	5,443355E+08	9,779004E+08	1,310909E+09	1,310882E+09	9,778422E+08	5,442924E+08
543	1,930347E+08	1,822303E+07	0,000000E+00	0,000000E+00	1,822178E+07	1,930279E+08	5,442856E+08	9,778353E+08	1,310868E+09	1,310886E+09	9,778839E+08	5,443376E+08
544	1,930680E+08	1,823248E+07	0,000000E+00	0,000000E+00	1,823157E+07	1,930631E+08	5,443318E+08	9,778693E+08	1,310856E+09	1,310833E+09	9,778157E+08	5,442849E+08
545	1,930349E+08	1,822552E+07	0,000000E+00	0,000000E+00	1,822853E+07	1,930496E+08	5,443051E+08	9,778451E+08	1,310860E+09	1,310852E+09	9,778297E+08	5,442956E+08
546	1,930483E+08	1,822889E+07	0,000000E+00	0,000000E+00	1,822521E+07	1,930323E+08	5,442798E+08	9,778163E+08	1,310846E+09	1,310873E+09	9,778772E+08	5,443322E+08
547	1,930612E+08	1,823047E+07	0,000000E+00	0,000000E+00	1,823226E+07	1,930669E+08	5,443334E+08	9,778802E+08	1,310886E+09	1,310869E+09	9,778318E+08	5,442813E+08
548	1,930252E+08	1,822046E+07	0,000000E+00	0,000000E+00	1,822124E+07	1,930340E+08	5,442993E+08	9,778615E+08	1,310906E+09	1,310921E+09	9,778976E+08	5,443280E+08
549	1,930501E+08	1,822418E+07	0,000000E+00	0,000000E+00	1,822079E+07	1,930378E+08	5,443196E+08	9,778943E+08	1,310926E+09	1,310933E+09	9,779117E+08	5,443347E+08
550	1,930419E+08	1,822008E+07	0,000000E+00	0,000000E+00	1,822208E+07	1,930515E+08	5,443517E+08	9,779601E+08	1,311002E+09	1,310970E+09	9,778928E+08	5,442994E+08
551	1,930199E+08	1,821263E+07	0,000000E+00	0,000000E+00	1,820966E+07	1,930103E+08	5,442995E+08	9,779210E+08	1,311019E+09	1,311044E+09	9,779811E+08	5,443551E+08
552	1,930478E+08	1,821917E+07	0,000000E+00	0,000000E+00	1,821614E+07	1,930379E+08	5,443459E+08	9,779642E+08	1,311024E+09	1,311021E+09	9,779498E+08	5,443247E+08
553	1,930185E+08	1,821063E+07	0,000000E+00	0,000000E+00	1,821346E+07	1,930345E+08	5,443437E+08	9,779745E+08	1,311050E+09	1,311037E+09	9,779451E+08	5,443186E+08
554	1,930195E+08	1,820986E+07	0,000000E+00	0,000000E+00	1,820834E+07	1,930108E+08	5,443086E+08	9,779342E+08	1,311023E+09	1,311047E+09	9,779923E+08	5,443643E+08
555	1,930467E+08	1,821735E+07	0,000000E+00	0,000000E+00	1,821872E+07	1,930482E+08	5,443591E+08	9,779803E+08	1,311031E+09	1,311005E+09	9,779211E+08	5,443073E+08
556	1,930144E+08	1,821002E+07	0,000000E+00	0,000000E+00	1,821224E+07	1,930253E+08	5,443210E+08	9,779341E+08	1,311003E+09	1,311000E+09	9,779314E+08	5,443272E+08
557	1,930388E+08	1,821927E+07	0,000000E+00	0,000000E+00	1,821649E+07	1,930233E+08	5,443016E+08	9,778831E+08	1,310931E+09	1,310946E+09	9,779199E+08	5,443404E+08
558	1,930513E+08	1,822402E+07	0,000000E+00	0,000000E+00	1,822640E+07	1,930576E+08	5,443359E+08	9,779013E+08	1,310914E+09	1,310884E+09	9,778351E+08	5,442806E+08
559	1,930266E+08	1,822125E+07	0,000000E+00	0,000000E+00	1,822221E+07	1,930306E+08	5,442798E+08	9,778178E+08	1,310849E+09	1,310869E+09	9,778637E+08	5,443223E+08
560	1,930637E+08	1,823383E+07	0,000000E+00	0,000000E+00	1,823234E+07	1,930574E+08	5,443102E+08	9,778163E+08	1,310787E+09	1,310781E+09	9,778013E+08	5,442962E+08
561	1,930503E+08	1,823171E+07	0,000000E+00	0,000000E+00	1,823702E+07	1,930716E+08	5,443192E+08	9,778249E+08	1,310788E+09	1,310751E+09	9,777472E+08	5,442618E+08
562	1,930449E+08	1,823318E+07	0,000000E+00	0,000000E+00	1,823248E+07	1,930395E+08	5,442599E+08	9,777487E+08	1,310741E+09	1,310761E+09	9,778010E+08	5,443147E+08
563	1,930798E+08	1,824250E+07	0,000000E+00	0,000000E+00	1,824200E+07	1,930745E+08	5,443036E+08	9,777824E+08	1,310739E+09	1,310724E+09	9,777435E+08	5,442663E+08
564	1,930475E+08	1,823553E+07	0,000000E+00	0,000000E+00	1,823803E+07	1,930602E+08	5,442801E+08	9,777598E+08	1,310738E+09	1,310738E+09	9,777595E+08	5,442790E+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	1,930594E+08	1,823791E+07	0,000000E+00	0,000000E+00	1,823441E+07	1,930439E+08	5,442563E+08	9,777254E+08	1,310708E+09	1,310743E+09	9,777992E+08	5,443160E+08
566	1,930749E+08	1,824001E+07	0,000000E+00	0,000000E+00	1,824094E+07	1,930788E+08	5,443189E+08	9,778093E+08	1,310764E+09	1,310740E+09	9,777526E+08	5,442646E+08
567	1,930389E+08	1,823011E+07	0,000000E+00	0,000000E+00	1,822962E+07	1,930424E+08	5,442795E+08	9,777943E+08	1,310802E+09	1,310812E+09	9,778237E+08	5,443097E+08
568	1,930629E+08	1,823371E+07	0,000000E+00	0,000000E+00	1,822918E+07	1,930467E+08	5,443013E+08	9,778261E+08	1,310821E+09	1,310822E+09	9,778307E+08	5,443092E+08
569	1,930521E+08	1,822955E+07	0,000000E+00	0,000000E+00	1,823155E+07	1,930629E+08	5,443307E+08	9,778848E+08	1,310894E+09	1,310863E+09	9,778171E+08	5,442728E+08
570	1,930272E+08	1,822129E+07	0,000000E+00	0,000000E+00	1,821947E+07	1,930231E+08	5,442773E+08	9,778364E+08	1,310894E+09	1,310928E+09	9,779094E+08	5,443364E+08
571	1,930572E+08	1,822774E+07	0,000000E+00	0,000000E+00	1,822633E+07	1,930526E+08	5,443286E+08	9,778895E+08	1,310911E+09	1,310910E+09	9,778787E+08	5,443082E+08
572	1,930308E+08	1,821973E+07	0,000000E+00	0,000000E+00	1,822282E+07	1,930469E+08	5,443282E+08	9,779062E+08	1,310939E+09	1,310921E+09	9,778690E+08	5,443000E+08
573	1,930317E+08	1,821925E+07	0,000000E+00	0,000000E+00	1,821781E+07	1,930212E+08	5,442832E+08	9,778467E+08	1,310893E+09	1,310918E+09	9,779066E+08	5,443437E+08
574	1,930623E+08	1,822834E+07	0,000000E+00	0,000000E+00	1,822838E+07	1,930588E+08	5,443347E+08	9,778929E+08	1,310896E+09	1,310869E+09	9,778342E+08	5,442858E+08
575	1,930294E+08	1,822174E+07	0,000000E+00	0,000000E+00	1,822309E+07	1,930361E+08	5,442907E+08	9,778366E+08	1,310862E+09	1,310864E+09	9,778444E+08	5,443049E+08
576	1,930529E+08	1,823090E+07	0,000000E+00	0,000000E+00	1,822827E+07	1,930397E+08	5,442812E+08	9,777870E+08	1,310778E+09	1,310792E+09	9,778180E+08	5,443114E+08
577	1,930635E+08	1,823531E+07	0,000000E+00	0,000000E+00	1,823914E+07	1,930774E+08	5,443209E+08	9,778129E+08	1,310766E+09	1,310733E+09	9,777330E+08	5,442496E+08
578	1,930372E+08	1,823190E+07	0,000000E+00	0,000000E+00	1,823431E+07	1,930470E+08	5,442610E+08	9,777315E+08	1,310707E+09	1,310721E+09	9,777677E+08	5,442976E+08
579	1,930769E+08	1,824451E+07	0,000000E+00	0,000000E+00	1,824362E+07	1,930710E+08	5,442873E+08	9,777370E+08	1,310672E+09	1,310660E+09	9,777155E+08	5,442737E+08
580	1,930654E+08	1,824301E+07	0,000000E+00	0,000000E+00	1,824710E+07	1,930809E+08	5,442914E+08	9,777400E+08	1,310670E+09	1,310637E+09	9,776700E+08	5,442411E+08
581	1,930583E+08	1,824391E+07	0,000000E+00	0,000000E+00	1,824237E+07	1,930485E+08	5,442252E+08	9,776446E+08	1,310600E+09	1,310634E+09	9,777234E+08	5,442971E+08
582	1,930951E+08	1,825349E+07	0,000000E+00	0,000000E+00	1,825177E+07	1,930867E+08	5,442800E+08	9,776898E+08	1,310597E+09	1,310589E+09	9,776666E+08	5,442511E+08
583	1,930617E+08	1,824602E+07	0,000000E+00	0,000000E+00	1,824793E+07	1,930722E+08	5,442600E+08	9,776780E+08	1,310608E+09	1,310610E+09	9,776817E+08	5,442622E+08
584	1,930725E+08	1,824746E+07	0,000000E+00	0,000000E+00	1,824378E+07	1,930580E+08	5,442464E+08	9,776601E+08	1,310592E+09	1,310614E+09	9,777105E+08	5,442903E+08
585	1,930856E+08	1,824926E+07	0,000000E+00	0,000000E+00	1,825041E+07	1,930922E+08	5,443064E+08	9,777470E+08	1,310663E+09	1,310631E+09	9,776713E+08	5,442358E+08
586	1,930463E+08	1,823847E+07	0,000000E+00	0,000000E+00	1,823842E+07	1,930520E+08	5,442587E+08	9,777232E+08	1,310699E+09	1,310711E+09	9,777543E+08	5,442880E+08
587	1,930711E+08	1,824197E+07	0,000000E+00	0,000000E+00	1,823825E+07	1,930570E+08	5,442780E+08	9,777551E+08	1,310727E+09	1,310732E+09	9,777699E+08	5,442919E+08
588	1,930620E+08	1,823811E+07	0,000000E+00	0,000000E+00	1,824023E+07	1,930733E+08	5,443100E+08	9,778093E+08	1,310784E+09	1,310762E+09	9,777547E+08	5,442574E+08
589	1,930368E+08	1,822943E+07	0,000000E+00	0,000000E+00	1,822848E+07	1,930345E+08	5,442559E+08	9,777507E+08	1,310761E+09	1,310801E+09	9,778338E+08	5,443215E+08
590	1,930714E+08	1,823726E+07	0,000000E+00	0,000000E+00	1,823521E+07	1,930635E+08	5,443109E+08	9,778130E+08	1,310781E+09	1,310775E+09	9,777972E+08	5,442917E+08
591	1,930460E+08	1,823026E+07	0,000000E+00	0,000000E+00	1,823222E+07	1,930558E+08	5,443035E+08	9,778243E+08	1,310814E+09	1,310793E+09	9,777847E+08	5,442791E+08
592	1,930466E+08	1,823030E+07	0,000000E+00	0,000000E+00	1,822800E+07	1,930334E+08	5,442617E+08	9,777597E+08	1,310758E+09	1,310778E+09	9,778087E+08	5,443130E+08
593	1,930745E+08	1,823968E+07	0,000000E+00	0,000000E+00	1,823992E+07	1,930741E+08	5,443120E+08	9,778007E+08	1,310758E+09	1,310731E+09	9,777384E+08	5,442533E+08
594	1,930388E+08	1,823241E+07	0,000000E+00	0,000000E+00	1,823521E+07	1,930532E+08	5,442697E+08	9,777429E+08	1,310716E+09	1,310720E+09	9,777524E+08	5,442793E+08
595	1,930639E+08	1,824129E+07	0,000000E+00	0,000000E+00	1,824038E+07	1,930572E+08	5,442642E+08	9,777088E+08	1,310655E+09	1,310662E+09	9,777306E+08	5,442886E+08
596	1,930767E+08	1,824604E+07	0,000000E+00	0,000000E+00	1,825010E+07	1,930915E+08	5,443033E+08	9,777383E+08	1,310647E+09	1,310609E+09	9,776502E+08	5,442289E+08
597	1,930512E+08	1,824280E+07	0,000000E+00	0,000000E+00	1,824489E+07	1,930579E+08	5,442327E+08	9,776375E+08	1,310571E+09	1,310590E+09	9,776838E+08	5,442788E+08
598	1,930943E+08	1,825640E+07	0,000000E+00	0,000000E+00	1,825354E+07	1,930797E+08	5,442568E+08	9,776396E+08	1,310530E+09	1,310527E+09	9,776366E+08	5,442573E+08
599	1,930827E+08	1,825542E+07	0,000000E+00	0,000000E+00	1,825781E+07	1,930901E+08	5,442563E+08	9,776345E+08	1,310524E+09	1,310504E+09	9,775913E+08	5,442244E+08
600	1,930739E+08	1,825536E+07	0,000000E+00	0,000000E+00	1,825343E+07	1,930640E+08	5,442032E+08	9,775445E+08	1,310443E+09	1,310481E+09	9,776260E+08	5,442706E+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												
601	1,931067E+08	1,826390E+07	0,000000E+00	0,000000E+00	1,826299E+07	1,931037E+08	5,442658E+08	9,776076E+08	1,310457E+09	1,310444E+09	9,775696E+08	5,442213E+08
602	1,930706E+08	1,825520E+07	0,000000E+00	0,000000E+00	1,825836E+07	1,930869E+08	5,442464E+08	9,776079E+08	1,310487E+09	1,310478E+09	9,775933E+08	5,442369E+08
603	1,930818E+08	1,825606E+07	0,000000E+00	0,000000E+00	1,825313E+07	1,930696E+08	5,442302E+08	9,776026E+08	1,310505E+09	1,310516E+09	9,776355E+08	5,442664E+08
604	1,930952E+08	1,825813E+07	0,000000E+00	0,000000E+00	1,825875E+07	1,931009E+08	5,442873E+08	9,776839E+08	1,310573E+09	1,310543E+09	9,776108E+08	5,442172E+08
605	1,930554E+08	1,824691E+07	0,000000E+00	0,000000E+00	1,824676E+07	1,930605E+08	5,442326E+08	9,776400E+08	1,310584E+09	1,310609E+09	9,776929E+08	5,442737E+08
606	1,930828E+08	1,825086E+07	0,000000E+00	0,000000E+00	1,824655E+07	1,930674E+08	5,442594E+08	9,776781E+08	1,310605E+09	1,310620E+09	9,777080E+08	5,442811E+08
607	1,930750E+08	1,824741E+07	0,000000E+00	0,000000E+00	1,824899E+07	1,930829E+08	5,442903E+08	9,777355E+08	1,310668E+09	1,310647E+09	9,776857E+08	5,442442E+08
608	1,930503E+08	1,823864E+07	0,000000E+00	0,000000E+00	1,823764E+07	1,930477E+08	5,442426E+08	9,776796E+08	1,310640E+09	1,310670E+09	9,777440E+08	5,442965E+08
609	1,930834E+08	1,824710E+07	0,000000E+00	0,000000E+00	1,824502E+07	1,930758E+08	5,442928E+08	9,777382E+08	1,310663E+09	1,310651E+09	9,777084E+08	5,442626E+08
610	1,930561E+08	1,824003E+07	0,000000E+00	0,000000E+00	1,824249E+07	1,930672E+08	5,442790E+08	9,777385E+08	1,310685E+09	1,310666E+09	9,777004E+08	5,442540E+08
611	1,930570E+08	1,824042E+07	0,000000E+00	0,000000E+00	1,823906E+07	1,930469E+08	5,442369E+08	9,776760E+08	1,310639E+09	1,310658E+09	9,777267E+08	5,442883E+08
612	1,930854E+08	1,825011E+07	0,000000E+00	0,000000E+00	1,825089E+07	1,930892E+08	5,442923E+08	9,777138E+08	1,310624E+09	1,310603E+09	9,776570E+08	5,442321E+08
613	1,930506E+08	1,824271E+07	0,000000E+00	0,000000E+00	1,824627E+07	1,930672E+08	5,442471E+08	9,776491E+08	1,310568E+09	1,310575E+09	9,776630E+08	5,442601E+08
614	1,930802E+08	1,825274E+07	0,000000E+00	0,000000E+00	1,825090E+07	1,930693E+08	5,442425E+08	9,776224E+08	1,310513E+09	1,310518E+09	9,776435E+08	5,442711E+08
615	1,930947E+08	1,825856E+07	0,000000E+00	0,000000E+00	1,826080E+07	1,931000E+08	5,442711E+08	9,776419E+08	1,310509E+09	1,310473E+09	9,775635E+08	5,442099E+08
616	1,930690E+08	1,825549E+07	0,000000E+00	0,000000E+00	1,825630E+07	1,930710E+08	5,442049E+08	9,775346E+08	1,310417E+09	1,310440E+09	9,775852E+08	5,442516E+08
617	1,931090E+08	1,826866E+07	0,000000E+00	0,000000E+00	1,826559E+07	1,930950E+08	5,442304E+08	9,775372E+08	1,310377E+09	1,310380E+09	9,775406E+08	5,442277E+08
618	1,930932E+08	1,826610E+07	0,000000E+00	0,000000E+00	1,826985E+07	1,931071E+08	5,442361E+08	9,775404E+08	1,310373E+09	1,310356E+09	9,774991E+08	5,441998E+08
619	1,930840E+08	1,826493E+07	0,000000E+00	0,000000E+00	1,826461E+07	1,930808E+08	5,441908E+08	9,774791E+08	1,310333E+09	1,310356E+09	9,775388E+08	5,442449E+08
620	1,931162E+08	1,827287E+07	0,000000E+00	0,000000E+00	1,827244E+07	1,931168E+08	5,442541E+08	9,775495E+08	1,310360E+09	1,310337E+09	9,774941E+08	5,441994E+08
621	1,930802E+08	1,826381E+07	0,000000E+00	0,000000E+00	1,826684E+07	1,930958E+08	5,442259E+08	9,775383E+08	1,310384E+09	1,310375E+09	9,775238E+08	5,442187E+08
622	1,930937E+08	1,826520E+07	0,000000E+00	0,000000E+00	1,826094E+07	1,930765E+08	5,442078E+08	9,775309E+08	1,310398E+09	1,310417E+09	9,775775E+08	5,442538E+08
623	1,931078E+08	1,826791E+07	0,000000E+00	0,000000E+00	1,826718E+07	1,931074E+08	5,442583E+08	9,776005E+08	1,310460E+09	1,310443E+09	9,775533E+08	5,442069E+08
624	1,930684E+08	1,825623E+07	0,000000E+00	0,000000E+00	1,825590E+07	1,930738E+08	5,442152E+08	9,775561E+08	1,310452E+09	1,310481E+09	9,776143E+08	5,442543E+08
625	1,930941E+08	1,826001E+07	0,000000E+00	0,000000E+00	1,825608E+07	1,930801E+08	5,442433E+08	9,776026E+08	1,310480E+09	1,310491E+09	9,776231E+08	5,442571E+08
626	1,930850E+08	1,825619E+07	0,000000E+00	0,000000E+00	1,825846E+07	1,930940E+08	5,442711E+08	9,776614E+08	1,310548E+09	1,310519E+09	9,776004E+08	5,442216E+08
627	1,930614E+08	1,824784E+07	0,000000E+00	0,000000E+00	1,824724E+07	1,930584E+08	5,442217E+08	9,776131E+08	1,310541E+09	1,310558E+09	9,776606E+08	5,442698E+08
628	1,930935E+08	1,825686E+07	0,000000E+00	0,000000E+00	1,825458E+07	1,930863E+08	5,442704E+08	9,776612E+08	1,310551E+09	1,310540E+09	9,776334E+08	5,442400E+08
629	1,930664E+08	1,824989E+07	0,000000E+00	0,000000E+00	1,825278E+07	1,930799E+08	5,442538E+08	9,776454E+08	1,310547E+09	1,310537E+09	9,776208E+08	5,442343E+08
630	1,930699E+08	1,825102E+07	0,000000E+00	0,000000E+00	1,824959E+07	1,930611E+08	5,442183E+08	9,775888E+08	1,310496E+09	1,310522E+09	9,776480E+08	5,442719E+08
631	1,931000E+08	1,826147E+07	0,000000E+00	0,000000E+00	1,826177E+07	1,931017E+08	5,442703E+08	9,776283E+08	1,310489E+09	1,310468E+09	9,775743E+08	5,442161E+08
632	1,930675E+08	1,825442E+07	0,000000E+00	0,000000E+00	1,825773E+07	1,930830E+08	5,442277E+08	9,775601E+08	1,310426E+09	1,310426E+09	9,775620E+08	5,442331E+08
633	1,930952E+08	1,826483E+07	0,000000E+00	0,000000E+00	1,826251E+07	1,930822E+08	5,442166E+08	9,775292E+08	1,310373E+09	1,310377E+09	9,775457E+08	5,442419E+08
634	1,931078E+08	1,827016E+07	0,000000E+00	0,000000E+00	1,827269E+07	1,931126E+08	5,442407E+08	9,775406E+08	1,310360E+09	1,310328E+09	9,774714E+08	5,441856E+08
635	1,930820E+08	1,826678E+07	0,000000E+00	0,000000E+00	1,826853E+07	1,930860E+08	5,441787E+08	9,774431E+08	1,310282E+09	1,310301E+09	9,774927E+08	5,442252E+08
636	1,931198E+08	1,827906E+07	0,000000E+00	0,000000E+00	1,827693E+07	1,931113E+08	5,442126E+08	9,774512E+08	1,310237E+09	1,310242E+09	9,774530E+08	5,442047E+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												
637	1,931038E+08	1,827575E+07	0,000000E+00	0,000000E+00	1,828036E+07	1,931212E+08	5,442179E+08	9,774571E+08	1,310235E+09	1,310214E+09	9,774097E+08	5,441783E+08
638	1,930974E+08	1,827493E+07	0,000000E+00	0,000000E+00	1,827374E+07	1,930917E+08	5,441740E+08	9,774088E+08	1,310215E+09	1,310235E+09	9,774610E+08	5,442258E+08
639	1,931297E+08	1,828344E+07	0,000000E+00	0,000000E+00	1,828112E+07	1,931233E+08	5,442276E+08	9,774741E+08	1,310255E+09	1,310234E+09	9,774263E+08	5,441838E+08
640	1,930947E+08	1,827432E+07	0,000000E+00	0,000000E+00	1,827595E+07	1,931063E+08	5,442025E+08	9,774560E+08	1,310266E+09	1,310261E+09	9,774482E+08	5,441972E+08
641	1,931051E+08	1,827511E+07	0,000000E+00	0,000000E+00	1,827049E+07	1,930881E+08	5,441860E+08	9,774500E+08	1,310279E+09	1,310303E+09	9,775044E+08	5,442330E+08
642	1,931169E+08	1,827653E+07	0,000000E+00	0,000000E+00	1,827685E+07	1,931199E+08	5,442399E+08	9,775234E+08	1,310338E+09	1,310323E+09	9,774812E+08	5,441907E+08
643	1,930783E+08	1,826431E+07	0,000000E+00	0,000000E+00	1,826534E+07	1,930868E+08	5,442024E+08	9,775004E+08	1,310357E+09	1,310371E+09	9,775376E+08	5,442329E+08
644	1,931030E+08	1,826804E+07	0,000000E+00	0,000000E+00	1,826478E+07	1,930914E+08	5,442287E+08	9,775416E+08	1,310383E+09	1,310388E+09	9,775519E+08	5,442370E+08
645	1,930945E+08	1,826453E+07	0,000000E+00	0,000000E+00	1,826684E+07	1,931024E+08	5,442474E+08	9,775834E+08	1,310433E+09	1,310407E+09	9,775271E+08	5,442026E+08
646	1,930738E+08	1,825749E+07	0,000000E+00	0,000000E+00	1,825605E+07	1,930676E+08	5,441978E+08	9,775318E+08	1,310419E+09	1,310444E+09	9,775918E+08	5,442526E+08
647	1,931062E+08	1,826750E+07	0,000000E+00	0,000000E+00	1,826445E+07	1,930961E+08	5,442416E+08	9,775686E+08	1,310419E+09	1,310416E+09	9,775581E+08	5,442243E+08
648	1,930808E+08	1,826069E+07	0,000000E+00	0,000000E+00	1,826384E+07	1,930969E+08	5,442363E+08	9,775533E+08	1,310397E+09	1,310385E+09	9,775240E+08	5,442097E+08
649	1,930832E+08	1,826214E+07	0,000000E+00	0,000000E+00	1,826114E+07	1,930768E+08	5,442012E+08	9,775054E+08	1,310354E+09	1,310371E+09	9,775474E+08	5,442446E+08
650	1,931126E+08	1,827219E+07	0,000000E+00	0,000000E+00	1,827316E+07	1,931147E+08	5,442462E+08	9,775403E+08	1,310351E+09	1,310322E+09	9,774776E+08	5,441919E+08
651	1,930819E+08	1,826589E+07	0,000000E+00	0,000000E+00	1,826948E+07	1,930956E+08	5,442021E+08	9,774782E+08	1,310304E+09	1,310294E+09	9,774676E+08	5,442050E+08
652	1,931080E+08	1,827633E+07	0,000000E+00	0,000000E+00	1,827400E+07	1,930951E+08	5,441883E+08	9,774338E+08	1,310237E+09	1,310247E+09	9,774604E+08	5,442180E+08
653	1,931199E+08	1,828114E+07	0,000000E+00	0,000000E+00	1,828405E+07	1,931264E+08	5,442124E+08	9,774367E+08	1,310206E+09	1,310182E+09	9,773819E+08	5,441643E+08
654	1,930962E+08	1,827792E+07	0,000000E+00	0,000000E+00	1,827958E+07	1,931013E+08	5,441605E+08	9,773550E+08	1,310135E+09	1,310158E+09	9,774071E+08	5,442055E+08
655	1,931338E+08	1,829015E+07	0,000000E+00	0,000000E+00	1,828728E+07	1,931231E+08	5,441914E+08	9,773716E+08	1,310112E+09	1,310111E+09	9,773687E+08	5,441867E+08
656	1,931194E+08	1,828677E+07	0,000000E+00	0,000000E+00	1,829061E+07	1,931355E+08	5,442007E+08	9,773788E+08	1,310110E+09	1,310082E+09	9,773189E+08	5,441530E+08
657	1,931106E+08	1,828580E+07	0,000000E+00	0,000000E+00	1,828360E+07	1,931023E+08	5,441521E+08	9,773317E+08	1,310101E+09	1,310120E+09	9,773805E+08	5,442009E+08
658	1,931401E+08	1,829320E+07	0,000000E+00	0,000000E+00	1,829104E+07	1,931333E+08	5,442006E+08	9,773892E+08	1,310135E+09	1,310122E+09	9,773563E+08	5,441667E+08
659	1,931060E+08	1,828376E+07	0,000000E+00	0,000000E+00	1,828611E+07	1,931188E+08	5,441810E+08	9,773826E+08	1,310159E+09	1,310152E+09	9,773759E+08	5,441769E+08
660	1,931135E+08	1,828322E+07	0,000000E+00	0,000000E+00	1,827991E+07	1,931016E+08	5,441706E+08	9,773784E+08	1,310165E+09	1,310192E+09	9,774346E+08	5,442159E+08
661	1,931257E+08	1,828420E+07	0,000000E+00	0,000000E+00	1,828535E+07	1,931302E+08	5,442217E+08	9,774508E+08	1,310219E+09	1,310200E+09	9,774042E+08	5,441735E+08
662	1,930904E+08	1,827284E+07	0,000000E+00	0,000000E+00	1,827333E+07	1,930957E+08	5,441844E+08	9,774319E+08	1,310245E+09	1,310257E+09	9,774645E+08	5,442145E+08
663	1,931156E+08	1,827782E+07	0,000000E+00	0,000000E+00	1,827307E+07	1,930979E+08	5,442019E+08	9,774639E+08	1,310274E+09	1,310280E+09	9,774814E+08	5,442205E+08
664	1,931088E+08	1,827489E+07	0,000000E+00	0,000000E+00	1,827645E+07	1,931155E+08	5,442249E+08	9,774954E+08	1,310302E+09	1,310279E+09	9,774426E+08	5,441783E+08
665	1,930854E+08	1,826798E+07	0,000000E+00	0,000000E+00	1,826660E+07	1,930821E+08	5,441787E+08	9,774477E+08	1,310288E+09	1,310314E+09	9,775047E+08	5,442271E+08
666	1,931155E+08	1,827701E+07	0,000000E+00	0,000000E+00	1,827548E+07	1,931114E+08	5,442244E+08	9,774885E+08	1,310288E+09	1,310282E+09	9,774722E+08	5,442037E+08
667	1,930931E+08	1,827058E+07	0,000000E+00	0,000000E+00	1,827490E+07	1,931115E+08	5,442211E+08	9,774895E+08	1,310289E+09	1,310258E+09	9,774326E+08	5,441833E+08
668	1,930941E+08	1,827214E+07	0,000000E+00	0,000000E+00	1,827188E+07	1,930901E+08	5,441815E+08	9,774298E+08	1,310238E+09	1,310250E+09	9,774638E+08	5,442219E+08
669	1,931250E+08	1,828257E+07	0,000000E+00	0,000000E+00	1,828338E+07	1,931240E+08	5,442156E+08	9,774442E+08	1,310212E+09	1,310189E+09	9,773929E+08	5,441715E+08
670	1,930976E+08	1,827757E+07	0,000000E+00	0,000000E+00	1,828043E+07	1,931072E+08	5,441717E+08	9,773758E+08	1,310154E+09	1,310158E+09	9,773867E+08	5,441861E+08
671	1,931239E+08	1,828865E+07	0,000000E+00	0,000000E+00	1,828536E+07	1,931077E+08	5,441566E+08	9,773259E+08	1,310082E+09	1,310102E+09	9,773739E+08	5,442006E+08
672	1,931367E+08	1,829310E+07	0,000000E+00	0,000000E+00	1,829590E+07	1,931444E+08	5,441920E+08	9,773355E+08	1,310041E+09	1,310017E+09	9,772767E+08	5,441376E+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												
673	1,931109E+08	1,828975E+07	0,000000E+00	0,000000E+00	1,829112E+07	1,931167E+08	5,441428E+08	9,772721E+08	1,309996E+09	1,310007E+09	9,773024E+08	5,441757E+08
674	1,931456E+08	1,830071E+07	0,000000E+00	0,000000E+00	1,829815E+07	1,931355E+08	5,441690E+08	9,772911E+08	1,309987E+09	1,309978E+09	9,772771E+08	5,441618E+08
675	1,931324E+08	1,829754E+07	0,000000E+00	0,000000E+00	1,830127E+07	1,931472E+08	5,441795E+08	9,773109E+08	1,310009E+09	1,309971E+09	9,772372E+08	5,441267E+08
676	1,931202E+08	1,829552E+07	0,000000E+00	0,000000E+00	1,829386E+07	1,931154E+08	5,441313E+08	9,772545E+08	1,309990E+09	1,310017E+09	9,773135E+08	5,441817E+08
677	1,931487E+08	1,830176E+07	0,000000E+00	0,000000E+00	1,830033E+07	1,931448E+08	5,441784E+08	9,773045E+08	1,310009E+09	1,310006E+09	9,772884E+08	5,441526E+08
678	1,931179E+08	1,829243E+07	0,000000E+00	0,000000E+00	1,829498E+07	1,931310E+08	5,441660E+08	9,773105E+08	1,310041E+09	1,310041E+09	9,773111E+08	5,441635E+08
679	1,931258E+08	1,829204E+07	0,000000E+00	0,000000E+00	1,828807E+07	1,931102E+08	5,441494E+08	9,773078E+08	1,310059E+09	1,310083E+09	9,773650E+08	5,442017E+08
680	1,931395E+08	1,829333E+07	0,000000E+00	0,000000E+00	1,829362E+07	1,931406E+08	5,442019E+08	9,773752E+08	1,310104E+09	1,310081E+09	9,773220E+08	5,441505E+08
681	1,931027E+08	1,828258E+07	0,000000E+00	0,000000E+00	1,828203E+07	1,931050E+08	5,441635E+08	9,773587E+08	1,310134E+09	1,310143E+09	9,773835E+08	5,441892E+08
682	1,931246E+08	1,828686E+07	0,000000E+00	0,000000E+00	1,828270E+07	1,931085E+08	5,441771E+08	9,773810E+08	1,310153E+09	1,310163E+09	9,774048E+08	5,441999E+08
683	1,931198E+08	1,828445E+07	0,000000E+00	0,000000E+00	1,828691E+07	1,931300E+08	5,442087E+08	9,774249E+08	1,310189E+09	1,310159E+09	9,773605E+08	5,441538E+08
684	1,930941E+08	1,827696E+07	0,000000E+00	0,000000E+00	1,827721E+07	1,930982E+08	5,441654E+08	9,773745E+08	1,310167E+09	1,310190E+09	9,774239E+08	5,442053E+08
685	1,931253E+08	1,828597E+07	0,000000E+00	0,000000E+00	1,828517E+07	1,931225E+08	5,442028E+08	9,774072E+08	1,310159E+09	1,310149E+09	9,773856E+08	5,441837E+08
686	1,931080E+08	1,828117E+07	0,000000E+00	0,000000E+00	1,828481E+07	1,931218E+08	5,441958E+08	9,774027E+08	1,310160E+09	1,310134E+09	9,773522E+08	5,441634E+08
687	1,931104E+08	1,828424E+07	0,000000E+00	0,000000E+00	1,828232E+07	1,930985E+08	5,441464E+08	9,773289E+08	1,310102E+09	1,310122E+09	9,773827E+08	5,442043E+08
688	1,931430E+08	1,829510E+07	0,000000E+00	0,000000E+00	1,829493E+07	1,931385E+08	5,441847E+08	9,773325E+08	1,310049E+09	1,310034E+09	9,772955E+08	5,441467E+08
689	1,931133E+08	1,829029E+07	0,000000E+00	0,000000E+00	1,829292E+07	1,931244E+08	5,441494E+08	9,772752E+08	1,309994E+09	1,309998E+09	9,772827E+08	5,441579E+08
690	1,931360E+08	1,829979E+07	0,000000E+00	0,000000E+00	1,829784E+07	1,931255E+08	5,441384E+08	9,772358E+08	1,309932E+09	1,309947E+09	9,772727E+08	5,441748E+08
691	1,931503E+08	1,830419E+07	0,000000E+00	0,000000E+00	1,830786E+07	1,931614E+08	5,441789E+08	9,772686E+08	1,309923E+09	1,309880E+09	9,771771E+08	5,441068E+08
692	1,931210E+08	1,830002E+07	0,000000E+00	0,000000E+00	1,830222E+07	1,931316E+08	5,441265E+08	9,772008E+08	1,309885E+09	1,309892E+09	9,772202E+08	5,441502E+08
693	1,931551E+08	1,831023E+07	0,000000E+00	0,000000E+00	1,830784E+07	1,931452E+08	5,441431E+08	9,772076E+08	1,309867E+09	1,309864E+09	9,772030E+08	5,441430E+08
694	1,931457E+08	1,830779E+07	0,000000E+00	0,000000E+00	1,831108E+07	1,931575E+08	5,441527E+08	9,772215E+08	1,309884E+09	1,309863E+09	9,771739E+08	5,441123E+08
695	1,931335E+08	1,830571E+07	0,000000E+00	0,000000E+00	1,830329E+07	1,931257E+08	5,441047E+08	9,771646E+08	1,309863E+09	1,309901E+09	9,772471E+08	5,441707E+08
696	1,931634E+08	1,831136E+07	0,000000E+00	0,000000E+00	1,830952E+07	1,931576E+08	5,441590E+08	9,772185E+08	1,309871E+09	1,309869E+09	9,772038E+08	5,441329E+08
697	1,931312E+08	1,830211E+07	0,000000E+00	0,000000E+00	1,830382E+07	1,931412E+08	5,441480E+08	9,772385E+08	1,309922E+09	1,309913E+09	9,772223E+08	5,441389E+08
698	1,931362E+08	1,830082E+07	0,000000E+00	0,000000E+00	1,829681E+07	1,931194E+08	5,441277E+08	9,772346E+08	1,309949E+09	1,309968E+09	9,772847E+08	5,441790E+08
699	1,931512E+08	1,830281E+07	0,000000E+00	0,000000E+00	1,830268E+07	1,931506E+08	5,441828E+08	9,773119E+08	1,310007E+09	1,309976E+09	9,772445E+08	5,441237E+08
700	1,931104E+08	1,829137E+07	0,000000E+00	0,000000E+00	1,829174E+07	1,931190E+08	5,441474E+08	9,772884E+08	1,310029E+09	1,310041E+09	9,773143E+08	5,441669E+08
701	1,931310E+08	1,829484E+07	0,000000E+00	0,000000E+00	1,829203E+07	1,931213E+08	5,441600E+08	9,773046E+08	1,310033E+09	1,310046E+09	9,773323E+08	5,441820E+08
702	1,931308E+08	1,829333E+07	0,000000E+00	0,000000E+00	1,829636E+07	1,931432E+08	5,441944E+08	9,773534E+08	1,310073E+09	1,310047E+09	9,772917E+08	5,441377E+08
703	1,931074E+08	1,828689E+07	0,000000E+00	0,000000E+00	1,828661E+07	1,931084E+08	5,441430E+08	9,772973E+08	1,310053E+09	1,310076E+09	9,773505E+08	5,441907E+08
704	1,931418E+08	1,829678E+07	0,000000E+00	0,000000E+00	1,829487E+07	1,931332E+08	5,441758E+08	9,773135E+08	1,310022E+09	1,310014E+09	9,772977E+08	5,441616E+08
705	1,931244E+08	1,829324E+07	0,000000E+00	0,000000E+00	1,829559E+07	1,931326E+08	5,441662E+08	9,773050E+08	1,310018E+09	1,309994E+09	9,772593E+08	5,441383E+08
706	1,931241E+08	1,829581E+07	0,000000E+00	0,000000E+00	1,829444E+07	1,931128E+08	5,441159E+08	9,772218E+08	1,309945E+09	1,309972E+09	9,772881E+08	5,441807E+08
707	1,931573E+08	1,830677E+07	0,000000E+00	0,000000E+00	1,830744E+07	1,931563E+08	5,441665E+08	9,772443E+08	1,309901E+09	1,309879E+09	9,771919E+08	5,441163E+08
708	1,931239E+08	1,830102E+07	0,000000E+00	0,000000E+00	1,830554E+07	1,931442E+08	5,441373E+08	9,771946E+08	1,309853E+09	1,309848E+09	9,771822E+08	5,441285E+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												
709	1,931456E+08	1,830967E+07	0,000000E+00	0,000000E+00	1,830867E+07	1,931388E+08	5,441183E+08	9,771532E+08	1,309797E+09	1,309803E+09	9,771749E+08	5,441479E+08
710	1,931640E+08	1,831525E+07	0,000000E+00	0,000000E+00	1,831833E+07	1,931728E+08	5,441554E+08	9,771839E+08	1,309801E+09	1,309763E+09	9,770992E+08	5,440857E+08
711	1,931364E+08	1,831192E+07	0,000000E+00	0,000000E+00	1,831241E+07	1,931405E+08	5,440950E+08	9,771082E+08	1,309762E+09	1,309779E+09	9,771497E+08	5,441348E+08
712	1,931711E+08	1,832155E+07	0,000000E+00	0,000000E+00	1,831800E+07	1,931570E+08	5,441138E+08	9,771066E+08	1,309723E+09	1,309732E+09	9,771232E+08	5,441245E+08
713	1,931607E+08	1,831902E+07	0,000000E+00	0,000000E+00	1,832143E+07	1,931703E+08	5,441316E+08	9,771348E+08	1,309749E+09	1,309730E+09	9,770908E+08	5,440927E+08
714	1,931452E+08	1,831502E+07	0,000000E+00	0,000000E+00	1,831327E+07	1,931385E+08	5,440858E+08	9,770863E+08	1,309737E+09	1,309772E+09	9,771649E+08	5,441512E+08
715	1,931756E+08	1,832055E+07	0,000000E+00	0,000000E+00	1,831874E+07	1,931692E+08	5,441455E+08	9,771606E+08	1,309769E+09	1,309753E+09	9,771200E+08	5,441062E+08
716	1,931394E+08	1,831055E+07	0,000000E+00	0,000000E+00	1,831296E+07	1,931534E+08	5,441338E+08	9,771758E+08	1,309824E+09	1,309811E+09	9,771496E+08	5,441140E+08
717	1,931426E+08	1,830859E+07	0,000000E+00	0,000000E+00	1,830511E+07	1,931281E+08	5,441059E+08	9,771611E+08	1,309841E+09	1,309863E+09	9,772153E+08	5,441581E+08
718	1,931609E+08	1,831166E+07	0,000000E+00	0,000000E+00	1,831177E+07	1,931622E+08	5,441624E+08	9,772323E+08	1,309895E+09	1,309878E+09	9,771851E+08	5,441086E+08
719	1,931220E+08	1,830073E+07	0,000000E+00	0,000000E+00	1,830093E+07	1,931309E+08	5,441279E+08	9,772096E+08	1,309911E+09	1,309930E+09	9,772488E+08	5,441541E+08
720	1,931443E+08	1,830413E+07	0,000000E+00	0,000000E+00	1,830132E+07	1,931339E+08	5,441418E+08	9,772234E+08	1,309900E+09	1,309911E+09	9,772480E+08	5,441626E+08
721	1,931453E+08	1,830378E+07	0,000000E+00	0,000000E+00	1,830584E+07	1,931531E+08	5,441733E+08	9,772758E+08	1,309949E+09	1,309914E+09	9,772009E+08	5,441143E+08
722	1,931204E+08	1,829727E+07	0,000000E+00	0,000000E+00	1,829707E+07	1,931191E+08	5,441162E+08	9,772082E+08	1,309921E+09	1,309945E+09	9,772627E+08	5,441679E+08
723	1,931567E+08	1,830828E+07	0,000000E+00	0,000000E+00	1,830597E+07	1,931454E+08	5,441515E+08	9,772281E+08	1,309890E+09	1,309880E+09	9,772059E+08	5,441328E+08
724	1,931353E+08	1,830417E+07	0,000000E+00	0,000000E+00	1,830786E+07	1,931504E+08	5,441463E+08	9,772128E+08	1,309874E+09	1,309855E+09	9,771691E+08	5,441115E+08
725	1,931335E+08	1,830599E+07	0,000000E+00	0,000000E+00	1,830606E+07	1,931293E+08	5,440973E+08	9,771313E+08	1,309796E+09	1,309822E+09	9,771920E+08	5,441553E+08
726	1,931701E+08	1,831750E+07	0,000000E+00	0,000000E+00	1,831881E+07	1,931719E+08	5,441489E+08	9,771596E+08	1,309766E+09	1,309745E+09	9,771038E+08	5,440935E+08
727	1,931387E+08	1,831258E+07	0,000000E+00	0,000000E+00	1,831624E+07	1,931561E+08	5,441144E+08	9,771121E+08	1,309729E+09	1,309721E+09	9,770981E+08	5,441087E+08
728	1,931618E+08	1,832125E+07	0,000000E+00	0,000000E+00	1,831897E+07	1,931496E+08	5,440907E+08	9,770590E+08	1,309659E+09	1,309669E+09	9,770875E+08	5,441251E+08
729	1,931801E+08	1,832765E+07	0,000000E+00	0,000000E+00	1,832898E+07	1,931824E+08	5,441247E+08	9,770879E+08	1,309664E+09	1,309631E+09	9,770154E+08	5,440653E+08
730	1,931506E+08	1,832334E+07	0,000000E+00	0,000000E+00	1,832393E+07	1,931537E+08	5,440659E+08	9,770067E+08	1,309616E+09	1,309645E+09	9,770692E+08	5,441172E+08
731	1,931856E+08	1,833235E+07	0,000000E+00	0,000000E+00	1,832892E+07	1,931714E+08	5,440962E+08	9,770258E+08	1,309588E+09	1,309594E+09	9,770341E+08	5,440997E+08
732	1,931705E+08	1,832836E+07	0,000000E+00	0,000000E+00	1,833212E+07	1,931861E+08	5,441186E+08	9,770630E+08	1,309625E+09	1,309599E+09	9,770045E+08	5,440676E+08
733	1,931530E+08	1,832312E+07	0,000000E+00	0,000000E+00	1,832208E+07	1,931488E+08	5,440676E+08	9,770160E+08	1,309622E+09	1,309648E+09	9,770799E+08	5,441266E+08
734	1,931857E+08	1,832938E+07	0,000000E+00	0,000000E+00	1,832731E+07	1,931783E+08	5,441248E+08	9,770881E+08	1,309667E+09	1,309656E+09	9,770543E+08	5,440867E+08
735	1,931508E+08	1,832011E+07	0,000000E+00	0,000000E+00	1,832149E+07	1,931623E+08	5,441112E+08	9,771021E+08	1,309721E+09	1,309715E+09	9,770896E+08	5,440993E+08
736	1,931542E+08	1,831772E+07	0,000000E+00	0,000000E+00	1,831399E+07	1,931402E+08	5,440861E+08	9,770797E+08	1,309718E+09	1,309748E+09	9,771449E+08	5,441404E+08
737	1,931724E+08	1,832128E+07	0,000000E+00	0,000000E+00	1,832104E+07	1,931745E+08	5,441479E+08	9,771619E+08	1,309777E+09	1,309758E+09	9,771097E+08	5,440915E+08
738	1,931333E+08	1,830960E+07	0,000000E+00	0,000000E+00	1,831065E+07	1,931434E+08	5,441113E+08	9,771392E+08	1,309797E+09	1,309811E+09	9,771711E+08	5,441359E+08
739	1,931571E+08	1,831363E+07	0,000000E+00	0,000000E+00	1,831065E+07	1,931443E+08	5,441258E+08	9,771605E+08	1,309794E+09	1,309794E+09	9,771641E+08	5,441371E+08
740	1,931555E+08	1,831332E+07	0,000000E+00	0,000000E+00	1,831592E+07	1,931650E+08	5,441530E+08	9,771996E+08	1,309833E+09	1,309797E+09	9,771215E+08	5,440900E+08
741	1,931296E+08	1,830679E+07	0,000000E+00	0,000000E+00	1,830722E+07	1,931294E+08	5,440876E+08	9,771148E+08	1,309783E+09	1,309811E+09	9,771773E+08	5,441448E+08
742	1,931693E+08	1,831906E+07	0,000000E+00	0,000000E+00	1,831713E+07	1,931594E+08	5,441249E+08	9,771267E+08	1,309745E+09	1,309750E+09	9,771263E+08	5,441135E+08
743	1,931499E+08	1,831567E+07	0,000000E+00	0,000000E+00	1,831925E+07	1,931656E+08	5,441246E+08	9,771180E+08	1,309725E+09	1,309710E+09	9,770805E+08	5,440919E+08
744	1,931490E+08	1,831740E+07	0,000000E+00	0,000000E+00	1,831715E+07	1,931434E+08	5,440750E+08	9,770368E+08	1,309642E+09	1,309662E+09	9,770884E+08	5,441286E+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	1,931859E+08	1,832991E+07	0,000000E+00	0,000000E+00	1,832973E+07	1,931833E+08	5,441241E+08	9,770714E+08	1,309628E+09	1,309596E+09	9,770031E+08	5,440678E+08
746	1,931542E+08	1,832488E+07	0,000000E+00	0,000000E+00	1,832795E+07	1,931677E+08	5,440840E+08	9,770154E+08	1,309591E+09	1,309585E+09	9,770074E+08	5,440852E+08
747	1,931777E+08	1,833369E+07	0,000000E+00	0,000000E+00	1,833066E+07	1,931627E+08	5,440660E+08	9,769704E+08	1,309523E+09	1,309534E+09	9,769977E+08	5,440983E+08
748	1,931911E+08	1,833878E+07	0,000000E+00	0,000000E+00	1,834138E+07	1,932003E+08	5,441056E+08	9,769982E+08	1,309523E+09	1,309496E+09	9,769316E+08	5,440421E+08
749	1,931596E+08	1,833284E+07	0,000000E+00	0,000000E+00	1,833502E+07	1,931694E+08	5,440490E+08	9,769237E+08	1,309478E+09	1,309505E+09	9,769816E+08	5,440952E+08
750	1,931967E+08	1,834160E+07	0,000000E+00	0,000000E+00	1,833907E+07	1,931852E+08	5,440791E+08	9,769500E+08	1,309471E+09	1,309479E+09	9,769586E+08	5,440806E+08
751	1,931829E+08	1,833796E+07	0,000000E+00	0,000000E+00	1,834103E+07	1,931961E+08	5,440992E+08	9,769927E+08	1,309520E+09	1,309493E+09	9,769336E+08	5,440501E+08
752	1,931655E+08	1,833232E+07	0,000000E+00	0,000000E+00	1,833031E+07	1,931572E+08	5,440445E+08	9,769388E+08	1,309507E+09	1,309535E+09	9,770049E+08	5,441054E+08
753	1,931975E+08	1,833932E+07	0,000000E+00	0,000000E+00	1,833592E+07	1,931864E+08	5,441010E+08	9,770120E+08	1,309555E+09	1,309544E+09	9,769831E+08	5,440696E+08
754	1,931619E+08	1,832942E+07	0,000000E+00	0,000000E+00	1,833117E+07	1,931746E+08	5,440907E+08	9,770231E+08	1,309603E+09	1,309603E+09	9,770202E+08	5,440836E+08
755	1,931658E+08	1,832678E+07	0,000000E+00	0,000000E+00	1,832342E+07	1,931537E+08	5,440764E+08	9,770179E+08	1,309604E+09	1,309627E+09	9,770653E+08	5,441176E+08
756	1,931806E+08	1,832958E+07	0,000000E+00	0,000000E+00	1,833065E+07	1,931877E+08	5,441353E+08	9,770982E+08	1,309668E+09	1,309640E+09	9,770308E+08	5,440692E+08
757	1,931416E+08	1,831783E+07	0,000000E+00	0,000000E+00	1,831940E+07	1,931524E+08	5,440896E+08	9,770658E+08	1,309683E+09	1,309692E+09	9,770893E+08	5,441137E+08
758	1,931690E+08	1,832336E+07	0,000000E+00	0,000000E+00	1,832001E+07	1,931526E+08	5,440958E+08	9,770717E+08	1,309677E+09	1,309688E+09	9,770939E+08	5,441184E+08
759	1,931695E+08	1,832423E+07	0,000000E+00	0,000000E+00	1,832573E+07	1,931747E+08	5,441235E+08	9,771058E+08	1,309702E+09	1,309676E+09	9,770483E+08	5,440739E+08
760	1,931443E+08	1,831778E+07	0,000000E+00	0,000000E+00	1,831794E+07	1,931434E+08	5,440633E+08	9,770161E+08	1,309630E+09	1,309663E+09	9,770863E+08	5,441225E+08
761	1,931835E+08	1,833063E+07	0,000000E+00	0,000000E+00	1,832822E+07	1,931736E+08	5,441056E+08	9,770398E+08	1,309599E+09	1,309595E+09	9,770287E+08	5,440911E+08
762	1,931643E+08	1,832694E+07	0,000000E+00	0,000000E+00	1,833110E+07	1,931811E+08	5,441049E+08	9,770334E+08	1,309588E+09	1,309564E+09	9,769832E+08	5,440671E+08
763	1,931639E+08	1,832917E+07	0,000000E+00	0,000000E+00	1,832856E+07	1,931574E+08	5,440579E+08	9,769600E+08	1,309513E+09	1,309524E+09	9,769895E+08	5,440973E+08
764	1,931966E+08	1,834109E+07	0,000000E+00	0,000000E+00	1,834171E+07	1,931980E+08	5,441017E+08	9,769850E+08	1,309497E+09	1,309466E+09	9,769153E+08	5,440412E+08
765	1,931648E+08	1,833575E+07	0,000000E+00	0,000000E+00	1,833973E+07	1,931811E+08	5,440555E+08	9,769179E+08	1,309448E+09	1,309448E+09	9,769204E+08	5,440628E+08
766	1,931906E+08	1,834466E+07	0,000000E+00	0,000000E+00	1,834250E+07	1,931778E+08	5,440392E+08	9,768701E+08	1,309382E+09	1,309408E+09	9,769205E+08	5,440809E+08
767	1,932052E+08	1,834960E+07	0,000000E+00	0,000000E+00	1,835216E+07	1,932143E+08	5,440855E+08	9,769114E+08	1,309385E+09	1,309361E+09	9,768500E+08	5,440259E+08
768	1,931743E+08	1,834299E+07	0,000000E+00	0,000000E+00	1,834476E+07	1,931810E+08	5,440279E+08	9,768396E+08	1,309340E+09	1,309360E+09	9,768877E+08	5,440717E+08
769	1,932105E+08	1,835216E+07	0,000000E+00	0,000000E+00	1,834802E+07	1,931936E+08	5,440558E+08	9,768730E+08	1,309351E+09	1,309349E+09	9,768715E+08	5,440590E+08
770	1,931962E+08	1,834832E+07	0,000000E+00	0,000000E+00	1,835062E+07	1,932058E+08	5,440736E+08	9,769117E+08	1,309405E+09	1,309380E+09	9,768579E+08	5,440297E+08
771	1,931782E+08	1,834248E+07	0,000000E+00	0,000000E+00	1,833969E+07	1,931690E+08	5,440278E+08	9,768692E+08	1,309397E+09	1,309424E+09	9,769290E+08	5,440807E+08
772	1,932048E+08	1,834814E+07	0,000000E+00	0,000000E+00	1,834609E+07	1,932020E+08	5,440889E+08	9,769447E+08	1,309446E+09	1,309436E+09	9,769136E+08	5,440498E+08
773	1,931692E+08	1,833724E+07	0,000000E+00	0,000000E+00	1,834026E+07	1,931869E+08	5,440763E+08	9,769580E+08	1,309494E+09	1,309488E+09	9,769454E+08	5,440647E+08
774	1,931754E+08	1,833487E+07	0,000000E+00	0,000000E+00	1,833221E+07	1,931641E+08	5,440570E+08	9,769503E+08	1,309508E+09	1,309532E+09	9,770008E+08	5,441022E+08
775	1,931929E+08	1,833865E+07	0,000000E+00	0,000000E+00	1,833874E+07	1,931950E+08	5,441120E+08	9,770255E+08	1,309564E+09	1,309539E+09	9,769658E+08	5,440549E+08
776	1,931552E+08	1,832735E+07	0,000000E+00	0,000000E+00	1,832795E+07	1,931596E+08	5,440601E+08	9,769754E+08	1,309553E+09	1,309567E+09	9,770108E+08	5,440939E+08
777	1,931830E+08	1,833435E+07	0,000000E+00	0,000000E+00	1,832986E+07	1,931624E+08	5,440661E+08	9,769763E+08	1,309538E+09	1,309552E+09	9,770113E+08	5,441010E+08
778	1,931839E+08	1,833525E+07	0,000000E+00	0,000000E+00	1,833724E+07	1,931901E+08	5,440991E+08	9,770075E+08	1,309552E+09	1,309531E+09	9,769582E+08	5,440531E+08
779	1,931588E+08	1,832895E+07	0,000000E+00	0,000000E+00	1,832959E+07	1,931609E+08	5,440521E+08	9,769385E+08	1,309487E+09	1,309507E+09	9,769804E+08	5,440906E+08
780	1,931929E+08	1,834100E+07	0,000000E+00	0,000000E+00	1,834025E+07	1,931909E+08	5,440916E+08	9,769643E+08	1,309467E+09	1,309449E+09	9,769260E+08	5,440599E+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	1,931742E+08	1,833732E+07	0,000000E+00	0,000000E+00	1,834236E+07	1,931943E+08	5,440821E+08	9,769500E+08	1,309457E+09	1,309425E+09	9,768852E+08	5,440383E+08
782	1,931764E+08	1,834055E+07	0,000000E+00	0,000000E+00	1,834024E+07	1,931702E+08	5,440283E+08	9,768655E+08	1,309387E+09	1,309407E+09	9,769111E+08	5,440765E+08
783	1,932113E+08	1,835292E+07	0,000000E+00	0,000000E+00	1,835300E+07	1,932109E+08	5,440735E+08	9,768876E+08	1,309359E+09	1,309339E+09	9,768396E+08	5,440262E+08
784	1,931807E+08	1,834730E+07	0,000000E+00	0,000000E+00	1,835114E+07	1,931954E+08	5,440302E+08	9,768174E+08	1,309294E+09	1,309299E+09	9,768312E+08	5,440437E+08
785	1,932065E+08	1,835625E+07	0,000000E+00	0,000000E+00	1,835328E+07	1,931908E+08	5,440167E+08	9,767821E+08	1,309240E+09	1,309259E+09	9,768292E+08	5,440626E+08
786	1,932207E+08	1,836052E+07	0,000000E+00	0,000000E+00	1,836272E+07	1,932265E+08	5,440626E+08	9,768277E+08	1,309256E+09	1,309227E+09	9,767614E+08	5,440047E+08
787	1,931892E+08	1,835383E+07	0,000000E+00	0,000000E+00	1,835448E+07	1,931927E+08	5,440120E+08	9,767695E+08	1,309223E+09	1,309234E+09	9,767972E+08	5,440418E+08
788	1,932189E+08	1,836171E+07	0,000000E+00	0,000000E+00	1,835802E+07	1,932055E+08	5,440357E+08	9,767988E+08	1,309239E+09	1,309235E+09	9,767933E+08	5,440337E+08
789	1,932044E+08	1,835737E+07	0,000000E+00	0,000000E+00	1,836031E+07	1,932177E+08	5,440513E+08	9,768321E+08	1,309288E+09	1,309267E+09	9,767851E+08	5,440099E+08
790	1,931879E+08	1,835131E+07	0,000000E+00	0,000000E+00	1,834951E+07	1,931828E+08	5,440082E+08	9,767915E+08	1,309288E+09	1,309326E+09	9,768663E+08	5,440656E+08
791	1,932153E+08	1,835665E+07	0,000000E+00	0,000000E+00	1,835467E+07	1,932130E+08	5,440731E+08	9,768770E+08	1,309338E+09	1,309328E+09	9,768482E+08	5,440375E+08
792	1,931820E+08	1,834578E+07	0,000000E+00	0,000000E+00	1,834819E+07	1,931947E+08	5,440547E+08	9,768842E+08	1,309379E+09	1,309368E+09	9,768670E+08	5,440461E+08
793	1,931887E+08	1,834447E+07	0,000000E+00	0,000000E+00	1,834023E+07	1,931699E+08	5,440293E+08	9,768711E+08	1,309393E+09	1,309413E+09	9,769241E+08	5,440852E+08
794	1,932068E+08	1,834884E+07	0,000000E+00	0,000000E+00	1,834808E+07	1,932033E+08	5,440820E+08	9,769358E+08	1,309439E+09	1,309421E+09	9,768900E+08	5,440361E+08
795	1,931692E+08	1,833801E+07	0,000000E+00	0,000000E+00	1,833832E+07	1,931742E+08	5,440432E+08	9,768933E+08	1,309419E+09	1,309432E+09	9,769207E+08	5,440656E+08
796	1,931912E+08	1,834408E+07	0,000000E+00	0,000000E+00	1,834160E+07	1,931813E+08	5,440541E+08	9,768983E+08	1,309405E+09	1,309414E+09	9,769193E+08	5,440736E+08
797	1,931927E+08	1,834451E+07	0,000000E+00	0,000000E+00	1,834841E+07	1,932071E+08	5,440857E+08	9,769331E+08	1,309423E+09	1,309390E+09	9,768625E+08	5,440264E+08
798	1,931697E+08	1,833892E+07	0,000000E+00	0,000000E+00	1,834070E+07	1,931755E+08	5,440322E+08	9,768627E+08	1,309377E+09	1,309392E+09	9,768971E+08	5,440669E+08
799	1,932053E+08	1,835155E+07	0,000000E+00	0,000000E+00	1,835034E+07	1,932016E+08	5,440678E+08	9,768832E+08	1,309350E+09	1,309332E+09	9,768484E+08	5,440413E+08
800	1,931896E+08	1,834873E+07	0,000000E+00	0,000000E+00	1,835280E+07	1,932033E+08	5,440488E+08	9,768493E+08	1,309315E+09	1,309290E+09	9,768000E+08	5,440182E+08
801	1,931930E+08	1,835311E+07	0,000000E+00	0,000000E+00	1,835159E+07	1,931818E+08	5,439950E+08	9,767584E+08	1,309233E+09	1,309261E+09	9,768261E+08	5,440614E+08
802	1,932289E+08	1,836526E+07	0,000000E+00	0,000000E+00	1,836508E+07	1,932258E+08	5,440454E+08	9,767804E+08	1,309198E+09	1,309187E+09	9,767483E+08	5,440079E+08
803	1,931984E+08	1,835947E+07	0,000000E+00	0,000000E+00	1,836290E+07	1,932117E+08	5,440143E+08	9,767297E+08	1,309140E+09	1,309138E+09	9,767239E+08	5,440135E+08
804	1,932183E+08	1,836715E+07	0,000000E+00	0,000000E+00	1,836478E+07	1,932061E+08	5,439981E+08	9,767004E+08	1,309106E+09	1,309114E+09	9,767274E+08	5,440316E+08
805	1,932314E+08	1,837081E+07	0,000000E+00	0,000000E+00	1,837308E+07	1,932380E+08	5,440376E+08	9,767428E+08	1,309128E+09	1,309095E+09	9,766687E+08	5,439763E+08
806	1,932001E+08	1,836418E+07	0,000000E+00	0,000000E+00	1,836491E+07	1,932046E+08	5,439858E+08	9,766867E+08	1,309114E+09	1,309133E+09	9,767264E+08	5,440202E+08
807	1,932291E+08	1,837134E+07	0,000000E+00	0,000000E+00	1,836761E+07	1,932184E+08	5,440171E+08	9,767230E+08	1,309128E+09	1,309132E+09	9,767304E+08	5,440193E+08
808	1,932160E+08	1,836643E+07	0,000000E+00	0,000000E+00	1,836944E+07	1,932295E+08	5,440337E+08	9,767560E+08	1,309168E+09	1,309150E+09	9,767137E+08	5,439939E+08
809	1,932000E+08	1,836041E+07	0,000000E+00	0,000000E+00	1,835815E+07	1,931933E+08	5,439917E+08	9,767246E+08	1,309178E+09	1,309210E+09	9,767959E+08	5,440527E+08
810	1,932285E+08	1,836566E+07	0,000000E+00	0,000000E+00	1,836315E+07	1,932217E+08	5,440512E+08	9,768045E+08	1,309231E+09	1,309221E+09	9,767775E+08	5,440215E+08
811	1,931960E+08	1,835526E+07	0,000000E+00	0,000000E+00	1,835661E+07	1,932041E+08	5,440375E+08	9,768144E+08	1,309268E+09	1,309253E+09	9,767857E+08	5,440197E+08
812	1,931972E+08	1,835341E+07	0,000000E+00	0,000000E+00	1,835004E+07	1,931817E+08	5,440075E+08	9,767921E+08	1,309275E+09	1,309296E+09	9,768450E+08	5,440602E+08
813	1,932154E+08	1,835778E+07	0,000000E+00	0,000000E+00	1,835818E+07	1,932166E+08	5,440593E+08	9,768492E+08	1,309309E+09	1,309294E+09	9,768075E+08	5,440133E+08
814	1,931793E+08	1,834732E+07	0,000000E+00	0,000000E+00	1,834924E+07	1,931908E+08	5,440261E+08	9,768141E+08	1,309299E+09	1,309314E+09	9,768415E+08	5,440438E+08
815	1,932017E+08	1,835341E+07	0,000000E+00	0,000000E+00	1,835159E+07	1,931954E+08	5,440405E+08	9,768274E+08	1,309285E+09	1,309287E+09	9,768362E+08	5,440530E+08
816	1,932061E+08	1,835460E+07	0,000000E+00	0,000000E+00	1,835795E+07	1,932170E+08	5,440621E+08	9,768503E+08	1,309295E+09	1,309256E+09	9,767713E+08	5,440030E+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	1,931852E+08	1,835068E+07	0,000000E+00	0,000000E+00	1,835081E+07	1,931843E+08	5,440018E+08	9,767706E+08	1,309244E+09	1,309260E+09	9,768129E+08	5,440484E+08
818	1,932225E+08	1,836395E+07	0,000000E+00	0,000000E+00	1,836142E+07	1,932117E+08	5,440329E+08	9,767775E+08	1,309205E+09	1,309200E+09	9,767669E+08	5,440239E+08
819	1,932081E+08	1,836168E+07	0,000000E+00	0,000000E+00	1,836493E+07	1,932194E+08	5,440266E+08	9,767491E+08	1,309158E+09	1,309138E+09	9,767035E+08	5,439920E+08
820	1,932058E+08	1,836487E+07	0,000000E+00	0,000000E+00	1,836462E+07	1,932007E+08	5,439759E+08	9,766636E+08	1,309078E+09	1,309105E+09	9,767258E+08	5,440342E+08
821	1,932411E+08	1,837600E+07	0,000000E+00	0,000000E+00	1,837691E+07	1,932417E+08	5,440251E+08	9,766919E+08	1,309053E+09	1,309035E+09	9,766465E+08	5,439803E+08
822	1,932110E+08	1,837030E+07	0,000000E+00	0,000000E+00	1,837444E+07	1,932267E+08	5,439925E+08	9,766481E+08	1,309021E+09	1,309015E+09	9,766349E+08	5,439864E+08
823	1,932293E+08	1,837730E+07	0,000000E+00	0,000000E+00	1,837462E+07	1,932175E+08	5,439771E+08	9,766225E+08	1,308990E+09	1,308998E+09	9,766487E+08	5,440093E+08
824	1,932437E+08	1,838106E+07	0,000000E+00	0,000000E+00	1,838259E+07	1,932473E+08	5,440103E+08	9,766545E+08	1,309002E+09	1,308974E+09	9,765922E+08	5,439569E+08
825	1,932134E+08	1,837479E+07	0,000000E+00	0,000000E+00	1,837471E+07	1,932161E+08	5,439617E+08	9,766004E+08	1,308987E+09	1,309012E+09	9,766567E+08	5,440071E+08
826	1,932423E+08	1,838114E+07	0,000000E+00	0,000000E+00	1,837732E+07	1,932308E+08	5,439979E+08	9,766429E+08	1,309003E+09	1,309013E+09	9,766590E+08	5,440053E+08
827	1,932302E+08	1,837613E+07	0,000000E+00	0,000000E+00	1,837863E+07	1,932421E+08	5,440227E+08	9,766898E+08	1,309050E+09	1,309023E+09	9,766283E+08	5,439690E+08
828	1,932091E+08	1,836904E+07	0,000000E+00	0,000000E+00	1,836739E+07	1,932047E+08	5,439745E+08	9,766570E+08	1,309071E+09	1,309094E+09	9,767131E+08	5,440265E+08
829	1,932374E+08	1,837415E+07	0,000000E+00	0,000000E+00	1,837174E+07	1,932297E+08	5,440257E+08	9,767260E+08	1,309119E+09	1,309110E+09	9,767006E+08	5,439981E+08
830	1,932061E+08	1,836442E+07	0,000000E+00	0,000000E+00	1,836616E+07	1,932152E+08	5,440120E+08	9,767349E+08	1,309163E+09	1,309155E+09	9,767188E+08	5,439993E+08
831	1,932065E+08	1,836230E+07	0,000000E+00	0,000000E+00	1,835944E+07	1,931954E+08	5,439915E+08	9,767175E+08	1,309160E+09	1,309186E+09	9,767763E+08	5,440431E+08
832	1,932268E+08	1,836691E+07	0,000000E+00	0,000000E+00	1,836747E+07	1,932288E+08	5,440420E+08	9,767711E+08	1,309182E+09	1,309165E+09	9,767270E+08	5,439945E+08
833	1,931927E+08	1,835737E+07	0,000000E+00	0,000000E+00	1,835881E+07	1,932028E+08	5,440086E+08	9,767409E+08	1,309178E+09	1,309186E+09	9,767613E+08	5,440266E+08
834	1,932161E+08	1,836400E+07	0,000000E+00	0,000000E+00	1,836143E+07	1,932056E+08	5,440167E+08	9,767452E+08	1,309164E+09	1,309167E+09	9,767560E+08	5,440334E+08
835	1,932222E+08	1,836622E+07	0,000000E+00	0,000000E+00	1,836825E+07	1,932281E+08	5,440393E+08	9,767615E+08	1,309159E+09	1,309121E+09	9,766801E+08	5,439755E+08
836	1,931976E+08	1,836240E+07	0,000000E+00	0,000000E+00	1,836308E+07	1,931989E+08	5,439739E+08	9,766709E+08	1,309098E+09	1,309120E+09	9,767214E+08	5,440226E+08
837	1,932356E+08	1,837543E+07	0,000000E+00	0,000000E+00	1,837379E+07	1,932272E+08	5,440038E+08	9,766687E+08	1,309044E+09	1,309047E+09	9,766708E+08	5,439996E+08
838	1,932220E+08	1,837325E+07	0,000000E+00	0,000000E+00	1,837791E+07	1,932377E+08	5,440042E+08	9,766534E+08	1,309012E+09	1,308992E+09	9,766087E+08	5,439673E+08
839	1,932187E+08	1,837576E+07	0,000000E+00	0,000000E+00	1,837614E+07	1,932169E+08	5,439600E+08	9,765817E+08	1,308939E+09	1,308957E+09	9,766288E+08	5,440092E+08
840	1,932547E+08	1,838679E+07	0,000000E+00	0,000000E+00	1,838704E+07	1,932518E+08	5,439989E+08	9,766018E+08	1,308914E+09	1,308889E+09	9,765482E+08	5,439535E+08
841	1,932256E+08	1,838202E+07	0,000000E+00	0,000000E+00	1,838475E+07	1,932370E+08	5,439656E+08	9,765590E+08	1,308888E+09	1,308883E+09	9,765513E+08	5,439655E+08
842	1,932436E+08	1,838876E+07	0,000000E+00	0,000000E+00	1,838506E+07	1,932288E+08	5,439498E+08	9,765309E+08	1,308860E+09	1,308878E+09	9,765734E+08	5,439905E+08
843	1,932583E+08	1,839233E+07	0,000000E+00	0,000000E+00	1,839324E+07	1,932628E+08	5,439958E+08	9,765736E+08	1,308870E+09	1,308845E+09	9,765097E+08	5,439338E+08
844	1,932237E+08	1,838462E+07	0,000000E+00	0,000000E+00	1,838564E+07	1,932324E+08	5,439493E+08	9,765305E+08	1,308869E+09	1,308890E+09	9,765761E+08	5,439845E+08
845	1,932520E+08	1,838963E+07	0,000000E+00	0,000000E+00	1,838656E+07	1,932419E+08	5,439801E+08	9,765742E+08	1,308895E+09	1,308899E+09	9,765818E+08	5,439846E+08
846	1,932407E+08	1,838480E+07	0,000000E+00	0,000000E+00	1,838754E+07	1,932515E+08	5,440013E+08	9,766242E+08	1,308960E+09	1,308931E+09	9,765624E+08	5,439492E+08
847	1,932182E+08	1,837718E+07	0,000000E+00	0,000000E+00	1,837531E+07	1,932129E+08	5,439543E+08	9,765881E+08	1,308970E+09	1,308997E+09	9,766506E+08	5,440094E+08
848	1,932478E+08	1,838278E+07	0,000000E+00	0,000000E+00	1,837976E+07	1,932363E+08	5,439972E+08	9,766395E+08	1,308998E+09	1,308997E+09	9,766325E+08	5,439820E+08
849	1,932185E+08	1,837407E+07	0,000000E+00	0,000000E+00	1,837541E+07	1,932271E+08	5,439910E+08	9,766503E+08	1,309032E+09	1,309032E+09	9,766492E+08	5,439859E+08
850	1,932196E+08	1,837202E+07	0,000000E+00	0,000000E+00	1,836908E+07	1,932082E+08	5,439743E+08	9,766388E+08	1,309032E+09	1,309059E+09	9,766979E+08	5,440255E+08
851	1,932413E+08	1,837731E+07	0,000000E+00	0,000000E+00	1,837723E+07	1,932423E+08	5,440301E+08	9,766994E+08	1,309055E+09	1,309026E+09	9,766327E+08	5,439674E+08
852	1,932042E+08	1,836776E+07	0,000000E+00	0,000000E+00	1,836949E+07	1,932154E+08	5,439878E+08	9,766624E+08	1,309055E+09	1,309055E+09	9,766674E+08	5,439970E+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	1,932272E+08	1,837445E+07	0,000000E+00	0,000000E+00	1,837201E+07	1,932158E+08	5,439873E+08	9,766521E+08	1,309030E+09	1,309037E+09	9,766689E+08	5,440082E+08
854	1,932349E+08	1,837749E+07	0,000000E+00	0,000000E+00	1,838016E+07	1,932423E+08	5,440111E+08	9,766675E+08	1,309029E+09	1,308998E+09	9,765998E+08	5,439528E+08
855	1,932093E+08	1,837323E+07	0,000000E+00	0,000000E+00	1,837503E+07	1,932163E+08	5,439559E+08	9,765807E+08	1,308954E+09	1,308980E+09	9,766361E+08	5,440025E+08
856	1,932493E+08	1,838626E+07	0,000000E+00	0,000000E+00	1,838495E+07	1,932410E+08	5,439813E+08	9,765753E+08	1,308893E+09	1,308894E+09	9,765757E+08	5,439779E+08
857	1,932378E+08	1,838488E+07	0,000000E+00	0,000000E+00	1,838908E+07	1,932515E+08	5,439823E+08	9,765652E+08	1,308868E+09	1,308844E+09	9,765159E+08	5,439464E+08
858	1,932347E+08	1,838760E+07	0,000000E+00	0,000000E+00	1,838677E+07	1,932280E+08	5,439345E+08	9,764926E+08	1,308806E+09	1,308823E+09	9,765382E+08	5,439851E+08
859	1,932704E+08	1,839890E+07	0,000000E+00	0,000000E+00	1,839764E+07	1,932636E+08	5,439762E+08	9,765121E+08	1,308774E+09	1,308749E+09	9,764541E+08	5,439252E+08
860	1,932376E+08	1,839366E+07	0,000000E+00	0,000000E+00	1,839659E+07	1,932515E+08	5,439413E+08	9,764687E+08	1,308754E+09	1,308751E+09	9,764638E+08	5,439394E+08
861	1,932544E+08	1,839905E+07	0,000000E+00	0,000000E+00	1,839626E+07	1,932437E+08	5,439280E+08	9,764410E+08	1,308724E+09	1,308748E+09	9,764915E+08	5,439694E+08
862	1,932696E+08	1,840227E+07	0,000000E+00	0,000000E+00	1,840428E+07	1,932777E+08	5,439784E+08	9,765006E+08	1,308757E+09	1,308729E+09	9,764347E+08	5,439145E+08
863	1,932340E+08	1,839348E+07	0,000000E+00	0,000000E+00	1,839494E+07	1,932447E+08	5,439354E+08	9,764663E+08	1,308762E+09	1,308777E+09	9,765020E+08	5,439661E+08
864	1,932633E+08	1,839835E+07	0,000000E+00	0,000000E+00	1,839431E+07	1,932468E+08	5,439520E+08	9,764947E+08	1,308781E+09	1,308786E+09	9,765077E+08	5,439660E+08
865	1,932536E+08	1,839451E+07	0,000000E+00	0,000000E+00	1,839579E+07	1,932582E+08	5,439733E+08	9,765407E+08	1,308841E+09	1,308822E+09	9,764981E+08	5,439354E+08
866	1,932313E+08	1,838704E+07	0,000000E+00	0,000000E+00	1,838420E+07	1,932228E+08	5,439303E+08	9,765046E+08	1,308849E+09	1,308886E+09	9,765832E+08	5,439936E+08
867	1,932605E+08	1,839267E+07	0,000000E+00	0,000000E+00	1,838936E+07	1,932508E+08	5,439848E+08	9,765626E+08	1,308867E+09	1,308866E+09	9,765498E+08	5,439594E+08
868	1,932285E+08	1,838344E+07	0,000000E+00	0,000000E+00	1,838601E+07	1,932436E+08	5,439815E+08	9,765853E+08	1,308915E+09	1,308905E+09	9,765618E+08	5,439601E+08
869	1,932287E+08	1,838075E+07	0,000000E+00	0,000000E+00	1,837897E+07	1,932213E+08	5,439584E+08	9,765701E+08	1,308920E+09	1,308938E+09	9,766126E+08	5,439999E+08
870	1,932509E+08	1,838668E+07	0,000000E+00	0,000000E+00	1,838728E+07	1,932535E+08	5,440088E+08	9,766305E+08	1,308956E+09	1,308921E+09	9,765570E+08	5,439440E+08
871	1,932140E+08	1,837729E+07	0,000000E+00	0,000000E+00	1,837945E+07	1,932267E+08	5,439663E+08	9,765848E+08	1,308939E+09	1,308942E+09	9,765940E+08	5,439776E+08
872	1,932393E+08	1,838475E+07	0,000000E+00	0,000000E+00	1,838204E+07	1,932244E+08	5,439537E+08	9,765503E+08	1,308887E+09	1,308903E+09	9,765886E+08	5,439909E+08
873	1,932501E+08	1,838895E+07	0,000000E+00	0,000000E+00	1,839136E+07	1,932563E+08	5,439854E+08	9,765658E+08	1,308870E+09	1,308850E+09	9,765168E+08	5,439380E+08
874	1,932261E+08	1,838515E+07	0,000000E+00	0,000000E+00	1,838655E+07	1,932309E+08	5,439342E+08	9,764865E+08	1,308801E+09	1,308825E+09	9,765400E+08	5,439811E+08
875	1,932665E+08	1,839851E+07	0,000000E+00	0,000000E+00	1,839620E+07	1,932552E+08	5,439615E+08	9,764844E+08	1,308740E+09	1,308731E+09	9,764652E+08	5,439469E+08
876	1,932518E+08	1,839713E+07	0,000000E+00	0,000000E+00	1,840110E+07	1,932656E+08	5,439580E+08	9,764747E+08	1,308728E+09	1,308696E+09	9,764099E+08	5,439132E+08
877	1,932472E+08	1,839928E+07	0,000000E+00	0,000000E+00	1,839836E+07	1,932404E+08	5,439055E+08	9,763961E+08	1,308667E+09	1,308686E+09	9,764458E+08	5,439566E+08
878	1,932818E+08	1,841036E+07	0,000000E+00	0,000000E+00	1,840975E+07	1,932789E+08	5,439521E+08	9,764264E+08	1,308652E+09	1,308629E+09	9,763755E+08	5,439032E+08
879	1,932484E+08	1,840401E+07	0,000000E+00	0,000000E+00	1,840802E+07	1,932687E+08	5,439283E+08	9,763941E+08	1,308631E+09	1,308629E+09	9,763886E+08	5,439217E+08
880	1,932658E+08	1,840842E+07	0,000000E+00	0,000000E+00	1,840590E+07	1,932545E+08	5,439074E+08	9,763637E+08	1,308602E+09	1,308625E+09	9,764151E+08	5,439531E+08
881	1,932831E+08	1,841200E+07	0,000000E+00	0,000000E+00	1,841339E+07	1,932879E+08	5,439577E+08	9,764250E+08	1,308639E+09	1,308615E+09	9,763666E+08	5,439014E+08
882	1,932482E+08	1,840327E+07	0,000000E+00	0,000000E+00	1,840330E+07	1,932519E+08	5,439106E+08	9,763881E+08	1,308650E+09	1,308668E+09	9,764323E+08	5,439498E+08
883	1,932772E+08	1,840832E+07	0,000000E+00	0,000000E+00	1,840288E+07	1,932554E+08	5,439277E+08	9,764108E+08	1,308655E+09	1,308663E+09	9,764295E+08	5,439445E+08
884	1,932646E+08	1,840432E+07	0,000000E+00	0,000000E+00	1,840586E+07	1,932710E+08	5,439509E+08	9,764571E+08	1,308715E+09	1,308697E+09	9,764163E+08	5,439118E+08
885	1,932405E+08	1,839573E+07	0,000000E+00	0,000000E+00	1,839414E+07	1,932372E+08	5,439140E+08	9,764272E+08	1,308724E+09	1,308760E+09	9,765015E+08	5,439706E+08
886	1,932689E+08	1,840128E+07	0,000000E+00	0,000000E+00	1,839948E+07	1,932653E+08	5,439736E+08	9,765051E+08	1,308767E+09	1,308751E+09	9,764708E+08	5,439366E+08
887	1,932369E+08	1,839167E+07	0,000000E+00	0,000000E+00	1,839511E+07	1,932563E+08	5,439705E+08	9,765292E+08	1,308818E+09	1,308794E+09	9,764838E+08	5,439376E+08
888	1,932384E+08	1,838957E+07	0,000000E+00	0,000000E+00	1,838725E+07	1,932270E+08	5,439306E+08	9,764909E+08	1,308808E+09	1,308826E+09	9,765369E+08	5,439801E+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	1,932641E+08	1,839707E+07	0,000000E+00	0,000000E+00	1,839661E+07	1,932617E+08	5,439783E+08	9,765375E+08	1,308825E+09	1,308805E+09	9,764898E+08	5,439308E+08
890	1,932297E+08	1,838873E+07	0,000000E+00	0,000000E+00	1,838996E+07	1,932384E+08	5,439382E+08	9,764876E+08	1,308798E+09	1,308812E+09	9,765164E+08	5,439620E+08
891	1,932559E+08	1,839668E+07	0,000000E+00	0,000000E+00	1,839347E+07	1,932399E+08	5,439326E+08	9,764530E+08	1,308729E+09	1,308746E+09	9,764920E+08	5,439683E+08
892	1,932651E+08	1,840076E+07	0,000000E+00	0,000000E+00	1,840365E+07	1,932731E+08	5,439662E+08	9,764779E+08	1,308723E+09	1,308694E+09	9,764108E+08	5,439092E+08
893	1,932396E+08	1,839644E+07	0,000000E+00	0,000000E+00	1,839843E+07	1,932458E+08	5,439121E+08	9,763983E+08	1,308661E+09	1,308677E+09	9,764363E+08	5,439501E+08
894	1,932783E+08	1,840991E+07	0,000000E+00	0,000000E+00	1,840803E+07	1,932687E+08	5,439377E+08	9,764027E+08	1,308618E+09	1,308600E+09	9,763720E+08	5,439176E+08
895	1,932625E+08	1,840816E+07	0,000000E+00	0,000000E+00	1,841281E+07	1,932806E+08	5,439366E+08	9,763904E+08	1,308599E+09	1,308568E+09	9,763249E+08	5,438889E+08
896	1,932586E+08	1,841015E+07	0,000000E+00	0,000000E+00	1,840949E+07	1,932527E+08	5,438763E+08	9,762970E+08	1,308524E+09	1,308553E+09	9,763637E+08	5,439376E+08
897	1,932955E+08	1,842134E+07	0,000000E+00	0,000000E+00	1,842099E+07	1,932941E+08	5,439309E+08	9,763335E+08	1,308506E+09	1,308495E+09	9,763015E+08	5,438913E+08
898	1,932649E+08	1,841521E+07	0,000000E+00	0,000000E+00	1,841855E+07	1,932815E+08	5,439089E+08	9,763134E+08	1,308501E+09	1,308498E+09	9,763076E+08	5,439060E+08
899	1,932819E+08	1,841917E+07	0,000000E+00	0,000000E+00	1,841540E+07	1,932647E+08	5,438843E+08	9,762802E+08	1,308470E+09	1,308487E+09	9,763233E+08	5,439292E+08
900	1,932962E+08	1,842257E+07	0,000000E+00	0,000000E+00	1,842308E+07	1,932972E+08	5,439315E+08	9,763418E+08	1,308517E+09	1,308490E+09	9,762786E+08	5,438750E+08
901	1,932592E+08	1,841292E+07	0,000000E+00	0,000000E+00	1,841292E+07	1,932624E+08	5,438849E+08	9,763028E+08	1,308526E+09	1,308549E+09	9,763519E+08	5,439247E+08
902	1,932856E+08	1,841740E+07	0,000000E+00	0,000000E+00	1,841298E+07	1,932691E+08	5,439099E+08	9,763412E+08	1,308549E+09	1,308553E+09	9,763562E+08	5,439229E+08
903	1,932722E+08	1,841244E+07	0,000000E+00	0,000000E+00	1,841558E+07	1,932876E+08	5,439452E+08	9,764011E+08	1,308614E+09	1,308589E+09	9,763451E+08	5,438927E+08
904	1,932489E+08	1,840344E+07	0,000000E+00	0,000000E+00	1,840240E+07	1,932472E+08	5,438982E+08	9,763651E+08	1,308623E+09	1,308651E+09	9,764292E+08	5,439521E+08
905	1,932794E+08	1,840978E+07	0,000000E+00	0,000000E+00	1,840772E+07	1,932745E+08	5,439551E+08	9,764378E+08	1,308664E+09	1,308652E+09	9,764089E+08	5,439236E+08
906	1,932508E+08	1,840148E+07	0,000000E+00	0,000000E+00	1,840326E+07	1,932627E+08	5,439452E+08	9,764532E+08	1,308711E+09	1,308692E+09	9,764175E+08	5,439224E+08
907	1,932529E+08	1,840012E+07	0,000000E+00	0,000000E+00	1,839657E+07	1,932357E+08	5,439006E+08	9,763962E+08	1,308673E+09	1,308698E+09	9,764570E+08	5,439607E+08
908	1,932781E+08	1,840824E+07	0,000000E+00	0,000000E+00	1,840774E+07	1,932750E+08	5,439506E+08	9,764382E+08	1,308679E+09	1,308664E+09	9,763992E+08	5,439085E+08
909	1,932433E+08	1,839953E+07	0,000000E+00	0,000000E+00	1,840192E+07	1,932551E+08	5,439169E+08	9,763917E+08	1,308644E+09	1,308658E+09	9,764182E+08	5,439365E+08
910	1,932685E+08	1,840763E+07	0,000000E+00	0,000000E+00	1,840569E+07	1,932566E+08	5,439154E+08	9,763756E+08	1,308597E+09	1,308597E+09	9,763903E+08	5,439399E+08
911	1,932768E+08	1,841133E+07	0,000000E+00	0,000000E+00	1,841523E+07	1,932892E+08	5,439499E+08	9,764011E+08	1,308595E+09	1,308552E+09	9,763107E+08	5,438796E+08
912	1,932511E+08	1,840737E+07	0,000000E+00	0,000000E+00	1,840911E+07	1,932558E+08	5,438824E+08	9,763049E+08	1,308525E+09	1,308540E+09	9,763430E+08	5,439230E+08
913	1,932911E+08	1,842145E+07	0,000000E+00	0,000000E+00	1,841934E+07	1,932818E+08	5,439098E+08	9,763036E+08	1,308474E+09	1,308471E+09	9,762949E+08	5,438997E+08
914	1,932784E+08	1,842043E+07	0,000000E+00	0,000000E+00	1,842433E+07	1,932948E+08	5,439122E+08	9,762956E+08	1,308458E+09	1,308435E+09	9,762446E+08	5,438724E+08
915	1,932750E+08	1,842211E+07	0,000000E+00	0,000000E+00	1,842105E+07	1,932686E+08	5,438564E+08	9,762055E+08	1,308376E+09	1,308405E+09	9,762725E+08	5,439175E+08
916	1,933108E+08	1,843274E+07	0,000000E+00	0,000000E+00	1,843227E+07	1,933084E+08	5,439103E+08	9,762508E+08	1,308373E+09	1,308354E+09	9,762061E+08	5,438675E+08
917	1,932789E+08	1,842567E+07	0,000000E+00	0,000000E+00	1,842898E+07	1,932930E+08	5,438850E+08	9,762302E+08	1,308376E+09	1,308369E+09	9,762193E+08	5,438807E+08
918	1,932932E+08	1,842908E+07	0,000000E+00	0,000000E+00	1,842528E+07	1,932746E+08	5,438603E+08	9,762068E+08	1,308362E+09	1,308373E+09	9,762443E+08	5,439047E+08
919	1,933052E+08	1,843160E+07	0,000000E+00	0,000000E+00	1,843261E+07	1,933089E+08	5,439106E+08	9,762660E+08	1,308405E+09	1,308379E+09	9,762055E+08	5,438534E+08
920	1,932677E+08	1,842150E+07	0,000000E+00	0,000000E+00	1,842185E+07	1,932730E+08	5,438618E+08	9,762201E+08	1,308405E+09	1,308433E+09	9,762793E+08	5,439056E+08
921	1,932951E+08	1,842590E+07	0,000000E+00	0,000000E+00	1,842216E+07	1,932830E+08	5,438962E+08	9,762676E+08	1,308429E+09	1,308441E+09	9,762911E+08	5,439096E+08
922	1,932854E+08	1,842179E+07	0,000000E+00	0,000000E+00	1,842408E+07	1,932981E+08	5,439305E+08	9,763380E+08	1,308510E+09	1,308479E+09	9,762731E+08	5,438768E+08
923	1,932627E+08	1,841305E+07	0,000000E+00	0,000000E+00	1,841082E+07	1,932561E+08	5,438765E+08	9,762907E+08	1,308510E+09	1,308533E+09	9,763481E+08	5,439306E+08
924	1,932922E+08	1,841995E+07	0,000000E+00	0,000000E+00	1,841687E+07	1,932826E+08	5,439276E+08	9,763548E+08	1,308547E+09	1,308536E+09	9,763277E+08	5,439011E+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	1,932634E+08	1,841158E+07	0,000000E+00	0,000000E+00	1,841343E+07	1,932739E+08	5,439175E+08	9,763611E+08	1,308580E+09	1,308569E+09	9,763381E+08	5,439002E+08
926	1,932639E+08	1,841030E+07	0,000000E+00	0,000000E+00	1,840802E+07	1,932512E+08	5,438808E+08	9,763152E+08	1,308545E+09	1,308568E+09	9,763735E+08	5,439380E+08
927	1,932882E+08	1,841778E+07	0,000000E+00	0,000000E+00	1,841920E+07	1,932933E+08	5,439395E+08	9,763646E+08	1,308551E+09	1,308528E+09	9,763100E+08	5,438846E+08
928	1,932541E+08	1,840919E+07	0,000000E+00	0,000000E+00	1,841260E+07	1,932689E+08	5,438973E+08	9,763110E+08	1,308514E+09	1,308519E+09	9,763232E+08	5,439103E+08
929	1,932806E+08	1,841804E+07	0,000000E+00	0,000000E+00	1,841633E+07	1,932700E+08	5,438941E+08	9,762894E+08	1,308465E+09	1,308469E+09	9,763067E+08	5,439186E+08
930	1,932927E+08	1,842324E+07	0,000000E+00	0,000000E+00	1,842564E+07	1,932996E+08	5,439231E+08	9,763115E+08	1,308464E+09	1,308424E+09	9,762270E+08	5,438592E+08
931	1,932675E+08	1,841983E+07	0,000000E+00	0,000000E+00	1,842046E+07	1,932679E+08	5,438504E+08	9,761989E+08	1,308372E+09	1,308393E+09	9,762503E+08	5,439000E+08
932	1,933062E+08	1,843384E+07	0,000000E+00	0,000000E+00	1,843150E+07	1,932970E+08	5,438828E+08	9,762004E+08	1,308320E+09	1,308321E+09	9,761987E+08	5,438770E+08
933	1,932938E+08	1,843221E+07	0,000000E+00	0,000000E+00	1,843674E+07	1,933114E+08	5,438908E+08	9,762007E+08	1,308307E+09	1,308285E+09	9,761494E+08	5,438485E+08
934	1,932887E+08	1,843328E+07	0,000000E+00	0,000000E+00	1,843281E+07	1,932831E+08	5,438373E+08	9,761299E+08	1,308250E+09	1,308265E+09	9,761773E+08	5,438912E+08
935	1,933225E+08	1,844286E+07	0,000000E+00	0,000000E+00	1,844270E+07	1,933210E+08	5,438904E+08	9,761750E+08	1,308255E+09	1,308229E+09	9,761176E+08	5,438413E+08
936	1,932898E+08	1,843560E+07	0,000000E+00	0,000000E+00	1,843833E+07	1,933008E+08	5,438543E+08	9,761398E+08	1,308250E+09	1,308248E+09	9,761383E+08	5,438568E+08
937	1,933040E+08	1,843882E+07	0,000000E+00	0,000000E+00	1,843488E+07	1,932865E+08	5,438360E+08	9,761169E+08	1,308234E+09	1,308261E+09	9,761790E+08	5,438891E+08
938	1,933184E+08	1,844175E+07	0,000000E+00	0,000000E+00	1,844189E+07	1,933214E+08	5,438934E+08	9,761897E+08	1,308286E+09	1,308266E+09	9,761383E+08	5,438395E+08
939	1,932808E+08	1,843103E+07	0,000000E+00	0,000000E+00	1,843111E+07	1,932865E+08	5,438479E+08	9,761495E+08	1,308287E+09	1,308311E+09	9,762011E+08	5,438862E+08
940	1,933065E+08	1,843501E+07	0,000000E+00	0,000000E+00	1,843125E+07	1,932950E+08	5,438820E+08	9,762045E+08	1,308326E+09	1,308329E+09	9,762107E+08	5,438877E+08
941	1,932968E+08	1,843073E+07	0,000000E+00	0,000000E+00	1,843297E+07	1,933079E+08	5,439110E+08	9,762685E+08	1,308407E+09	1,308375E+09	9,761997E+08	5,438544E+08
942	1,932724E+08	1,842203E+07	0,000000E+00	0,000000E+00	1,842012E+07	1,932655E+08	5,438553E+08	9,762244E+08	1,308410E+09	1,308429E+09	9,762762E+08	5,439085E+08
943	1,933009E+08	1,842866E+07	0,000000E+00	0,000000E+00	1,842661E+07	1,932947E+08	5,439059E+08	9,762760E+08	1,308432E+09	1,308423E+09	9,762549E+08	5,438810E+08
944	1,932730E+08	1,842051E+07	0,000000E+00	0,000000E+00	1,842329E+07	1,932860E+08	5,438932E+08	9,762697E+08	1,308443E+09	1,308439E+09	9,762584E+08	5,438807E+08
945	1,932754E+08	1,841980E+07	0,000000E+00	0,000000E+00	1,841865E+07	1,932671E+08	5,438648E+08	9,762293E+08	1,308405E+09	1,308435E+09	9,762944E+08	5,439211E+08
946	1,933038E+08	1,842866E+07	0,000000E+00	0,000000E+00	1,842904E+07	1,933046E+08	5,439192E+08	9,762843E+08	1,308421E+09	1,308391E+09	9,762202E+08	5,438634E+08
947	1,932703E+08	1,842087E+07	0,000000E+00	0,000000E+00	1,842297E+07	1,932799E+08	5,438701E+08	9,762176E+08	1,308373E+09	1,308373E+09	9,762232E+08	5,438823E+08
948	1,932954E+08	1,843037E+07	0,000000E+00	0,000000E+00	1,842751E+07	1,932814E+08	5,438638E+08	9,761903E+08	1,308322E+09	1,308327E+09	9,762070E+08	5,438897E+08
949	1,933071E+08	1,843550E+07	0,000000E+00	0,000000E+00	1,843784E+07	1,933140E+08	5,438942E+08	9,762076E+08	1,308313E+09	1,308281E+09	9,761351E+08	5,438339E+08
950	1,932810E+08	1,843197E+07	0,000000E+00	0,000000E+00	1,843347E+07	1,932856E+08	5,438319E+08	9,761141E+08	1,308232E+09	1,308250E+09	9,761579E+08	5,438758E+08
951	1,933185E+08	1,844466E+07	0,000000E+00	0,000000E+00	1,844374E+07	1,933149E+08	5,438679E+08	9,761211E+08	1,308187E+09	1,308182E+09	9,761072E+08	5,438533E+08
952	1,933064E+08	1,844279E+07	0,000000E+00	0,000000E+00	1,844769E+07	1,933237E+08	5,438667E+08	9,761138E+08	1,308174E+09	1,308150E+09	9,760599E+08	5,438247E+08
953	1,933017E+08	1,844378E+07	0,000000E+00	0,000000E+00	1,844325E+07	1,932955E+08	5,438133E+08	9,760389E+08	1,308118E+09	1,308145E+09	9,761021E+08	5,438722E+08
954	1,933374E+08	1,845397E+07	0,000000E+00	0,000000E+00	1,845205E+07	1,933292E+08	5,438621E+08	9,760860E+08	1,308128E+09	1,308110E+09	9,760428E+08	5,438232E+08
955	1,933041E+08	1,844656E+07	0,000000E+00	0,000000E+00	1,844845E+07	1,933125E+08	5,438262E+08	9,760429E+08	1,308109E+09	1,308114E+09	9,760547E+08	5,438355E+08
956	1,933163E+08	1,844911E+07	0,000000E+00	0,000000E+00	1,844519E+07	1,933012E+08	5,438181E+08	9,760335E+08	1,308102E+09	1,308129E+09	9,760922E+08	5,438667E+08
957	1,933300E+08	1,845124E+07	0,000000E+00	0,000000E+00	1,845213E+07	1,933362E+08	5,438811E+08	9,761196E+08	1,308166E+09	1,308141E+09	9,760572E+08	5,438180E+08
958	1,932914E+08	1,844007E+07	0,000000E+00	0,000000E+00	1,844070E+07	1,932989E+08	5,438374E+08	9,760986E+08	1,308192E+09	1,308199E+09	9,761205E+08	5,438614E+08
959	1,933143E+08	1,844307E+07	0,000000E+00	0,000000E+00	1,843997E+07	1,933053E+08	5,438663E+08	9,761449E+08	1,308235E+09	1,308231E+09	9,761390E+08	5,438644E+08
960	1,933050E+08	1,843913E+07	0,000000E+00	0,000000E+00	1,844121E+07	1,933143E+08	5,438831E+08	9,761879E+08	1,308297E+09	1,308273E+09	9,761330E+08	5,438345E+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	1,932819E+08	1,843078E+07	0,000000E+00	0,000000E+00	1,842944E+07	1,932775E+08	5,438320E+08	9,761353E+08	1,308285E+09	1,308324E+09	9,762166E+08	5,438957E+08
962	1,933148E+08	1,843871E+07	0,000000E+00	0,000000E+00	1,843580E+07	1,933058E+08	5,438857E+08	9,761946E+08	1,308306E+09	1,308304E+09	9,761852E+08	5,438682E+08
963	1,932883E+08	1,843085E+07	0,000000E+00	0,000000E+00	1,843324E+07	1,932989E+08	5,438726E+08	9,761846E+08	1,308305E+09	1,308297E+09	9,761682E+08	5,438593E+08
964	1,932898E+08	1,843063E+07	0,000000E+00	0,000000E+00	1,842888E+07	1,932796E+08	5,438447E+08	9,761488E+08	1,308276E+09	1,308296E+09	9,761963E+08	5,438942E+08
965	1,933178E+08	1,843979E+07	0,000000E+00	0,000000E+00	1,843968E+07	1,933163E+08	5,438955E+08	9,761969E+08	1,308288E+09	1,308258E+09	9,761293E+08	5,438365E+08
966	1,932831E+08	1,843238E+07	0,000000E+00	0,000000E+00	1,843446E+07	1,932923E+08	5,438464E+08	9,761351E+08	1,308244E+09	1,308239E+09	9,761316E+08	5,438535E+08
967	1,933057E+08	1,844123E+07	0,000000E+00	0,000000E+00	1,843964E+07	1,932975E+08	5,438413E+08	9,760984E+08	1,308184E+09	1,308192E+09	9,761187E+08	5,438641E+08
968	1,933181E+08	1,844639E+07	0,000000E+00	0,000000E+00	1,844983E+07	1,933293E+08	5,438692E+08	9,761069E+08	1,308160E+09	1,308135E+09	9,760449E+08	5,438115E+08
969	1,932944E+08	1,844308E+07	0,000000E+00	0,000000E+00	1,844581E+07	1,933034E+08	5,438133E+08	9,760204E+08	1,308084E+09	1,308109E+09	9,760732E+08	5,438579E+08
970	1,933358E+08	1,845656E+07	0,000000E+00	0,000000E+00	1,845428E+07	1,933257E+08	5,438434E+08	9,760344E+08	1,308053E+09	1,308044E+09	9,760186E+08	5,438337E+08
971	1,933236E+08	1,845485E+07	0,000000E+00	0,000000E+00	1,845826E+07	1,933337E+08	5,438350E+08	9,760135E+08	1,308028E+09	1,308005E+09	9,759651E+08	5,437998E+08
972	1,933167E+08	1,845571E+07	0,000000E+00	0,000000E+00	1,845389E+07	1,933069E+08	5,437848E+08	9,759423E+08	1,307977E+09	1,308005E+09	9,760085E+08	5,438461E+08
973	1,933502E+08	1,846501E+07	0,000000E+00	0,000000E+00	1,846308E+07	1,933431E+08	5,438392E+08	9,759937E+08	1,307989E+09	1,307977E+09	9,759593E+08	5,438003E+08
974	1,933150E+08	1,845676E+07	0,000000E+00	0,000000E+00	1,845963E+07	1,933293E+08	5,438175E+08	9,759803E+08	1,307992E+09	1,307988E+09	9,759705E+08	5,438107E+08
975	1,933241E+08	1,845749E+07	0,000000E+00	0,000000E+00	1,845536E+07	1,933176E+08	5,438120E+08	9,759805E+08	1,308005E+09	1,308019E+09	9,760142E+08	5,438428E+08
976	1,933376E+08	1,845932E+07	0,000000E+00	0,000000E+00	1,846071E+07	1,933457E+08	5,438633E+08	9,760562E+08	1,308070E+09	1,308041E+09	9,759884E+08	5,437985E+08
977	1,933012E+08	1,844843E+07	0,000000E+00	0,000000E+00	1,844906E+07	1,933081E+08	5,438173E+08	9,760271E+08	1,308094E+09	1,308113E+09	9,760668E+08	5,438485E+08
978	1,933272E+08	1,845243E+07	0,000000E+00	0,000000E+00	1,844739E+07	1,933091E+08	5,438368E+08	9,760652E+08	1,308127E+09	1,308134E+09	9,760819E+08	5,438533E+08
979	1,933189E+08	1,844900E+07	0,000000E+00	0,000000E+00	1,844996E+07	1,933224E+08	5,438516E+08	9,760900E+08	1,308160E+09	1,308148E+09	9,760597E+08	5,438191E+08
980	1,932956E+08	1,844093E+07	0,000000E+00	0,000000E+00	1,843931E+07	1,932908E+08	5,438120E+08	9,760468E+08	1,308144E+09	1,308183E+09	9,761280E+08	5,438750E+08
981	1,933280E+08	1,844881E+07	0,000000E+00	0,000000E+00	1,844624E+07	1,933191E+08	5,438676E+08	9,761125E+08	1,308169E+09	1,308163E+09	9,760937E+08	5,438447E+08
982	1,933012E+08	1,844132E+07	0,000000E+00	0,000000E+00	1,844404E+07	1,933128E+08	5,438588E+08	9,761189E+08	1,308185E+09	1,308159E+09	9,760694E+08	5,438283E+08
983	1,932994E+08	1,844074E+07	0,000000E+00	0,000000E+00	1,843981E+07	1,932932E+08	5,438255E+08	9,760725E+08	1,308157E+09	1,308168E+09	9,761035E+08	5,438623E+08
984	1,933266E+08	1,845023E+07	0,000000E+00	0,000000E+00	1,845055E+07	1,933278E+08	5,438670E+08	9,761022E+08	1,308152E+09	1,308128E+09	9,760440E+08	5,438112E+08
985	1,932944E+08	1,844333E+07	0,000000E+00	0,000000E+00	1,844667E+07	1,933096E+08	5,438244E+08	9,760374E+08	1,308101E+09	1,308113E+09	9,760559E+08	5,438358E+08
986	1,933207E+08	1,845291E+07	0,000000E+00	0,000000E+00	1,845097E+07	1,933117E+08	5,438209E+08	9,760103E+08	1,308045E+09	1,308056E+09	9,760377E+08	5,438485E+08
987	1,933348E+08	1,845816E+07	0,000000E+00	0,000000E+00	1,846141E+07	1,933434E+08	5,438448E+08	9,760123E+08	1,308011E+09	1,307983E+09	9,759497E+08	5,437906E+08
988	1,933113E+08	1,845530E+07	0,000000E+00	0,000000E+00	1,845723E+07	1,933170E+08	5,437899E+08	9,759299E+08	1,307942E+09	1,307960E+09	9,759726E+08	5,438327E+08
989	1,933515E+08	1,846842E+07	0,000000E+00	0,000000E+00	1,846539E+07	1,933367E+08	5,438148E+08	9,759384E+08	1,307911E+09	1,307905E+09	9,759273E+08	5,438089E+08
990	1,933376E+08	1,846660E+07	0,000000E+00	0,000000E+00	1,846976E+07	1,933465E+08	5,438117E+08	9,759288E+08	1,307892E+09	1,307865E+09	9,758719E+08	5,437716E+08
991	1,933263E+08	1,846595E+07	0,000000E+00	0,000000E+00	1,846537E+07	1,933234E+08	5,437668E+08	9,758592E+08	1,307847E+09	1,307875E+09	9,759215E+08	5,438190E+08
992	1,933581E+08	1,847436E+07	0,000000E+00	0,000000E+00	1,847356E+07	1,933576E+08	5,438221E+08	9,759137E+08	1,307859E+09	1,307848E+09	9,758787E+08	5,437792E+08
993	1,933254E+08	1,846589E+07	0,000000E+00	0,000000E+00	1,846971E+07	1,933439E+08	5,438045E+08	9,759108E+08	1,307882E+09	1,307879E+09	9,759015E+08	5,437945E+08
994	1,933373E+08	1,846704E+07	0,000000E+00	0,000000E+00	1,846329E+07	1,933243E+08	5,437915E+08	9,759162E+08	1,307909E+09	1,307920E+09	9,759485E+08	5,438282E+08
995	1,933515E+08	1,846914E+07	0,000000E+00	0,000000E+00	1,846878E+07	1,933507E+08	5,438314E+08	9,759699E+08	1,307953E+09	1,307931E+09	9,759182E+08	5,437816E+08
996	1,933147E+08	1,845856E+07	0,000000E+00	0,000000E+00	1,845769E+07	1,933160E+08	5,437892E+08	9,759397E+08	1,307970E+09	1,307995E+09	9,759925E+08	5,438309E+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	1,933396E+08	1,846222E+07	0,000000E+00	0,000000E+00	1,845704E+07	1,933200E+08	5,438125E+08	9,759767E+08	1,307995E+09	1,308012E+09	9,760097E+08	5,438370E+08
998	1,933308E+08	1,845858E+07	0,000000E+00	0,000000E+00	1,846022E+07	1,933370E+08	5,438408E+08	9,760242E+08	1,308037E+09	1,308016E+09	9,759735E+08	5,437952E+08
999	1,933042E+08	1,844949E+07	0,000000E+00	0,000000E+00	1,844974E+07	1,933074E+08	5,438037E+08	9,759870E+08	1,308035E+09	1,308059E+09	9,760391E+08	5,438462E+08
1000	1,933352E+08	1,845749E+07	0,000000E+00	0,000000E+00	1,845592E+07	1,933309E+08	5,438492E+08	9,760400E+08	1,308054E+09	1,308042E+09	9,760093E+08	5,438189E+08
1001	1,933110E+08	1,845080E+07	0,000000E+00	0,000000E+00	1,845435E+07	1,933259E+08	5,438386E+08	9,760392E+08	1,308071E+09	1,308052E+09	9,759966E+08	5,438076E+08
1002	1,933122E+08	1,845150E+07	0,000000E+00	0,000000E+00	1,844967E+07	1,933024E+08	5,437982E+08	9,759862E+08	1,308034E+09	1,308051E+09	9,760302E+08	5,438455E+08
1003	1,933408E+08	1,846147E+07	0,000000E+00	0,000000E+00	1,846157E+07	1,933400E+08	5,438361E+08	9,759961E+08	1,307997E+09	1,307984E+09	9,759584E+08	5,437937E+08
1004	1,933106E+08	1,845537E+07	0,000000E+00	0,000000E+00	1,845858E+07	1,933255E+08	5,438032E+08	9,759417E+08	1,307945E+09	1,307955E+09	9,759582E+08	5,438155E+08
1005	1,933375E+08	1,846502E+07	0,000000E+00	0,000000E+00	1,846292E+07	1,933252E+08	5,437964E+08	9,759160E+08	1,307894E+09	1,307901E+09	9,759397E+08	5,438260E+08
1006	1,933513E+08	1,847045E+07	0,000000E+00	0,000000E+00	1,847317E+07	1,933566E+08	5,438236E+08	9,759293E+08	1,307871E+09	1,307831E+09	9,758438E+08	5,437599E+08
1007	1,933240E+08	1,846692E+07	0,000000E+00	0,000000E+00	1,846919E+07	1,933314E+08	5,437658E+08	9,758403E+08	1,307806E+09	1,307819E+09	9,758728E+08	5,437996E+08
1008	1,933613E+08	1,847941E+07	0,000000E+00	0,000000E+00	1,847665E+07	1,933489E+08	5,437847E+08	9,758377E+08	1,307765E+09	1,307766E+09	9,758379E+08	5,437834E+08
1009	1,933491E+08	1,847746E+07	0,000000E+00	0,000000E+00	1,848165E+07	1,933641E+08	5,437925E+08	9,758385E+08	1,307758E+09	1,307742E+09	9,757960E+08	5,437535E+08
1010	1,933399E+08	1,847662E+07	0,000000E+00	0,000000E+00	1,847543E+07	1,933362E+08	5,437504E+08	9,757866E+08	1,307729E+09	1,307755E+09	9,758470E+08	5,438028E+08
1011	1,933714E+08	1,848441E+07	0,000000E+00	0,000000E+00	1,848310E+07	1,933682E+08	5,438001E+08	9,758356E+08	1,307739E+09	1,307726E+09	9,758008E+08	5,437625E+08
1012	1,933401E+08	1,847635E+07	0,000000E+00	0,000000E+00	1,847874E+07	1,933538E+08	5,437841E+08	9,758382E+08	1,307771E+09	1,307764E+09	9,758247E+08	5,437759E+08
1013	1,933503E+08	1,847683E+07	0,000000E+00	0,000000E+00	1,847208E+07	1,933310E+08	5,437635E+08	9,758342E+08	1,307794E+09	1,307812E+09	9,758804E+08	5,438111E+08
1014	1,933634E+08	1,847886E+07	0,000000E+00	0,000000E+00	1,847814E+07	1,933603E+08	5,438092E+08	9,758937E+08	1,307835E+09	1,307813E+09	9,758412E+08	5,437598E+08
1015	1,933232E+08	1,846716E+07	0,000000E+00	0,000000E+00	1,846793E+07	1,933315E+08	5,437732E+08	9,758627E+08	1,307848E+09	1,307871E+09	9,759112E+08	5,438060E+08
1016	1,933462E+08	1,847025E+07	0,000000E+00	0,000000E+00	1,846687E+07	1,933340E+08	5,437968E+08	9,759006E+08	1,307868E+09	1,307882E+09	9,759275E+08	5,438157E+08
1017	1,933404E+08	1,846703E+07	0,000000E+00	0,000000E+00	1,847024E+07	1,933523E+08	5,438287E+08	9,759578E+08	1,307928E+09	1,307902E+09	9,758966E+08	5,437754E+08
1018	1,933164E+08	1,845896E+07	0,000000E+00	0,000000E+00	1,845828E+07	1,933160E+08	5,437847E+08	9,759218E+08	1,307934E+09	1,307951E+09	9,759629E+08	5,438250E+08
1019	1,933471E+08	1,846756E+07	0,000000E+00	0,000000E+00	1,846511E+07	1,933385E+08	5,438187E+08	9,759502E+08	1,307929E+09	1,307920E+09	9,759294E+08	5,437982E+08
1020	1,933253E+08	1,846214E+07	0,000000E+00	0,000000E+00	1,846462E+07	1,933376E+08	5,438124E+08	9,759472E+08	1,307935E+09	1,307918E+09	9,759128E+08	5,437877E+08
1021	1,933263E+08	1,846297E+07	0,000000E+00	0,000000E+00	1,846115E+07	1,933162E+08	5,437732E+08	9,758907E+08	1,307889E+09	1,307913E+09	9,759475E+08	5,438283E+08
1022	1,933562E+08	1,847302E+07	0,000000E+00	0,000000E+00	1,847347E+07	1,933561E+08	5,438207E+08	9,759163E+08	1,307856E+09	1,307833E+09	9,758604E+08	5,437695E+08
1023	1,933240E+08	1,846648E+07	0,000000E+00	0,000000E+00	1,847096E+07	1,933428E+08	5,437864E+08	9,758616E+08	1,307812E+09	1,307810E+09	9,758581E+08	5,437862E+08
1024	1,933493E+08	1,847605E+07	0,000000E+00	0,000000E+00	1,847430E+07	1,933377E+08	5,437691E+08	9,758220E+08	1,307753E+09	1,307761E+09	9,758461E+08	5,438003E+08
1025	1,933647E+08	1,848181E+07	0,000000E+00	0,000000E+00	1,848475E+07	1,933698E+08	5,437948E+08	9,758311E+08	1,307734E+09	1,307704E+09	9,757599E+08	5,437375E+08
1026	1,933387E+08	1,847886E+07	0,000000E+00	0,000000E+00	1,847997E+07	1,933423E+08	5,437366E+08	9,757445E+08	1,307668E+09	1,307688E+09	9,757897E+08	5,437790E+08
1027	1,933747E+08	1,849071E+07	0,000000E+00	0,000000E+00	1,848780E+07	1,933623E+08	5,437561E+08	9,757332E+08	1,307610E+09	1,307618E+09	9,757475E+08	5,437631E+08
1028	1,933641E+08	1,848896E+07	0,000000E+00	0,000000E+00	1,849274E+07	1,933798E+08	5,437759E+08	9,757553E+08	1,307617E+09	1,307595E+09	9,757038E+08	5,437332E+08
1029	1,933544E+08	1,848748E+07	0,000000E+00	0,000000E+00	1,848591E+07	1,933483E+08	5,437310E+08	9,757108E+08	1,307607E+09	1,307627E+09	9,757636E+08	5,437831E+08
1030	1,933852E+08	1,849484E+07	0,000000E+00	0,000000E+00	1,849280E+07	1,933787E+08	5,437821E+08	9,757670E+08	1,307626E+09	1,307604E+09	9,757150E+08	5,437375E+08
1031	1,933506E+08	1,848596E+07	0,000000E+00	0,000000E+00	1,848867E+07	1,933653E+08	5,437627E+08	9,757632E+08	1,307662E+09	1,307654E+09	9,757467E+08	5,437493E+08
1032	1,933573E+08	1,848540E+07	0,000000E+00	0,000000E+00	1,848150E+07	1,933415E+08	5,437373E+08	9,757475E+08	1,307670E+09	1,307698E+09	9,758095E+08	5,437916E+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	1,933721E+08	1,848724E+07	0,000000E+00	0,000000E+00	1,848802E+07	1,933751E+08	5,437925E+08	9,758174E+08	1,307722E+09	1,307708E+09	9,757753E+08	5,437441E+08
1034	1,933342E+08	1,847570E+07	0,000000E+00	0,000000E+00	1,847652E+07	1,933433E+08	5,437610E+08	9,758031E+08	1,307746E+09	1,307763E+09	9,758400E+08	5,437890E+08
1035	1,933572E+08	1,847878E+07	0,000000E+00	0,000000E+00	1,847540E+07	1,933438E+08	5,437765E+08	9,758286E+08	1,307756E+09	1,307764E+09	9,758490E+08	5,437969E+08
1036	1,933542E+08	1,847694E+07	0,000000E+00	0,000000E+00	1,847886E+07	1,933623E+08	5,438098E+08	9,758871E+08	1,307818E+09	1,307785E+09	9,758182E+08	5,437561E+08
1037	1,933298E+08	1,846937E+07	0,000000E+00	0,000000E+00	1,846764E+07	1,933239E+08	5,437567E+08	9,758377E+08	1,307815E+09	1,307837E+09	9,758898E+08	5,438066E+08
1038	1,933601E+08	1,847829E+07	0,000000E+00	0,000000E+00	1,847550E+07	1,933503E+08	5,437955E+08	9,758638E+08	1,307796E+09	1,307789E+09	9,758440E+08	5,437753E+08
1039	1,933370E+08	1,847271E+07	0,000000E+00	0,000000E+00	1,847656E+07	1,933551E+08	5,437936E+08	9,758579E+08	1,307795E+09	1,307779E+09	9,758211E+08	5,437610E+08
1040	1,933366E+08	1,847329E+07	0,000000E+00	0,000000E+00	1,847296E+07	1,933314E+08	5,437506E+08	9,757971E+08	1,307739E+09	1,307763E+09	9,758528E+08	5,438057E+08
1041	1,933703E+08	1,848401E+07	0,000000E+00	0,000000E+00	1,848531E+07	1,933713E+08	5,437979E+08	9,758282E+08	1,307723E+09	1,307698E+09	9,757685E+08	5,437472E+08
1042	1,933405E+08	1,847850E+07	0,000000E+00	0,000000E+00	1,848179E+07	1,933535E+08	5,437586E+08	9,757714E+08	1,307679E+09	1,307673E+09	9,757647E+08	5,437613E+08
1043	1,933642E+08	1,848813E+07	0,000000E+00	0,000000E+00	1,848541E+07	1,933479E+08	5,437326E+08	9,757105E+08	1,307596E+09	1,307611E+09	9,757503E+08	5,437760E+08
1044	1,933808E+08	1,849454E+07	0,000000E+00	0,000000E+00	1,849650E+07	1,933851E+08	5,437691E+08	9,757286E+08	1,307576E+09	1,307549E+09	9,756654E+08	5,437151E+08
1045	1,933534E+08	1,849102E+07	0,000000E+00	0,000000E+00	1,849208E+07	1,933581E+08	5,437153E+08	9,756515E+08	1,307521E+09	1,307543E+09	9,757003E+08	5,437576E+08
1046	1,933882E+08	1,850180E+07	0,000000E+00	0,000000E+00	1,849935E+07	1,933793E+08	5,437457E+08	9,756624E+08	1,307481E+09	1,307476E+09	9,756508E+08	5,437365E+08
1047	1,933758E+08	1,849932E+07	0,000000E+00	0,000000E+00	1,850411E+07	1,933961E+08	5,437627E+08	9,756882E+08	1,307508E+09	1,307473E+09	9,756146E+08	5,437041E+08
1048	1,933633E+08	1,849685E+07	0,000000E+00	0,000000E+00	1,849580E+07	1,933589E+08	5,437077E+08	9,756332E+08	1,307494E+09	1,307515E+09	9,756879E+08	5,437616E+08
1049	1,933957E+08	1,850404E+07	0,000000E+00	0,000000E+00	1,850234E+07	1,933886E+08	5,437559E+08	9,756871E+08	1,307521E+09	1,307508E+09	9,756519E+08	5,437217E+08
1050	1,933628E+08	1,849538E+07	0,000000E+00	0,000000E+00	1,849730E+07	1,933738E+08	5,437372E+08	9,756826E+08	1,307549E+09	1,307549E+09	9,756828E+08	5,437345E+08
1051	1,933682E+08	1,849409E+07	0,000000E+00	0,000000E+00	1,849032E+07	1,933520E+08	5,437125E+08	9,756570E+08	1,307536E+09	1,307573E+09	9,757354E+08	5,437765E+08
1052	1,933857E+08	1,849669E+07	0,000000E+00	0,000000E+00	1,849680E+07	1,933873E+08	5,437778E+08	9,757452E+08	1,307598E+09	1,307578E+09	9,756954E+08	5,437270E+08
1053	1,933475E+08	1,848530E+07	0,000000E+00	0,000000E+00	1,848535E+07	1,933529E+08	5,437424E+08	9,757347E+08	1,307637E+09	1,307647E+09	9,757612E+08	5,437686E+08
1054	1,933695E+08	1,848855E+07	0,000000E+00	0,000000E+00	1,848442E+07	1,933540E+08	5,437594E+08	9,757607E+08	1,307647E+09	1,307646E+09	9,757625E+08	5,437694E+08
1055	1,933646E+08	1,848688E+07	0,000000E+00	0,000000E+00	1,848903E+07	1,933748E+08	5,437887E+08	9,758091E+08	1,307704E+09	1,307670E+09	9,757370E+08	5,437282E+08
1056	1,933382E+08	1,847900E+07	0,000000E+00	0,000000E+00	1,847832E+07	1,933372E+08	5,437322E+08	9,757473E+08	1,307683E+09	1,307713E+09	9,758128E+08	5,437868E+08
1057	1,933712E+08	1,848808E+07	0,000000E+00	0,000000E+00	1,848675E+07	1,933660E+08	5,437756E+08	9,757792E+08	1,307670E+09	1,307668E+09	9,757675E+08	5,437584E+08
1058	1,933512E+08	1,848318E+07	0,000000E+00	0,000000E+00	1,848706E+07	1,933683E+08	5,437752E+08	9,757806E+08	1,307671E+09	1,307651E+09	9,757379E+08	5,437417E+08
1059	1,933509E+08	1,848404E+07	0,000000E+00	0,000000E+00	1,848366E+07	1,933432E+08	5,437227E+08	9,757009E+08	1,307597E+09	1,307621E+09	9,757602E+08	5,437838E+08
1060	1,933871E+08	1,849600E+07	0,000000E+00	0,000000E+00	1,849590E+07	1,933827E+08	5,437710E+08	9,757328E+08	1,307578E+09	1,307550E+09	9,756746E+08	5,437242E+08
1061	1,933565E+08	1,849105E+07	0,000000E+00	0,000000E+00	1,849337E+07	1,933648E+08	5,437271E+08	9,756696E+08	1,307530E+09	1,307529E+09	9,756725E+08	5,437375E+08
1062	1,933789E+08	1,850036E+07	0,000000E+00	0,000000E+00	1,849752E+07	1,933639E+08	5,437104E+08	9,756121E+08	1,307440E+09	1,307454E+09	9,756460E+08	5,437462E+08
1063	1,933931E+08	1,850612E+07	0,000000E+00	0,000000E+00	1,850942E+07	1,934050E+08	5,437539E+08	9,756401E+08	1,307429E+09	1,307398E+09	9,755638E+08	5,436842E+08
1064	1,933637E+08	1,850163E+07	0,000000E+00	0,000000E+00	1,850410E+07	1,933746E+08	5,436980E+08	9,755687E+08	1,307384E+09	1,307400E+09	9,756070E+08	5,437329E+08
1065	1,934002E+08	1,851201E+07	0,000000E+00	0,000000E+00	1,851028E+07	1,933928E+08	5,437253E+08	9,755884E+08	1,307373E+09	1,307363E+09	9,755703E+08	5,437150E+08
1066	1,933897E+08	1,851000E+07	0,000000E+00	0,000000E+00	1,851349E+07	1,934042E+08	5,437371E+08	9,756112E+08	1,307401E+09	1,307369E+09	9,755432E+08	5,436846E+08
1067	1,933758E+08	1,850696E+07	0,000000E+00	0,000000E+00	1,850496E+07	1,933662E+08	5,436731E+08	9,755344E+08	1,307362E+09	1,307398E+09	9,756163E+08	5,437450E+08
1068	1,934098E+08	1,851447E+07	0,000000E+00	0,000000E+00	1,851152E+07	1,933994E+08	5,437315E+08	9,755974E+08	1,307386E+09	1,307381E+09	9,755802E+08	5,437079E+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°
1069	1,933764E+08	1,850546E+07	0,000000E+00	0,000000E+00	1,850693E+07	1,933856E+08	5,437180E+08	9,756034E+08	1,307423E+09	1,307426E+09	9,756087E+08	5,437186E+08
1070	1,933806E+08	1,850331E+07	0,000000E+00	0,000000E+00	1,849964E+07	1,933660E+08	5,437037E+08	9,755943E+08	1,307421E+09	1,307446E+09	9,756483E+08	5,437516E+08
1071	1,933960E+08	1,850579E+07	0,000000E+00	0,000000E+00	1,850645E+07	1,934015E+08	5,437670E+08	9,756847E+08	1,307497E+09	1,307467E+09	9,756134E+08	5,436986E+08
1072	1,933553E+08	1,849388E+07	0,000000E+00	0,000000E+00	1,849450E+07	1,933631E+08	5,437220E+08	9,756620E+08	1,307530E+09	1,307540E+09	9,756880E+08	5,437456E+08
1073	1,933782E+08	1,849735E+07	0,000000E+00	0,000000E+00	1,849407E+07	1,933649E+08	5,437353E+08	9,756849E+08	1,307546E+09	1,307550E+09	9,756968E+08	5,437510E+08
1074	1,933758E+08	1,849644E+07	0,000000E+00	0,000000E+00	1,849856E+07	1,933859E+08	5,437657E+08	9,757269E+08	1,307585E+09	1,307559E+09	9,756670E+08	5,437108E+08
1075	1,933494E+08	1,848844E+07	0,000000E+00	0,000000E+00	1,848857E+07	1,933499E+08	5,437074E+08	9,756514E+08	1,307537E+09	1,307574E+09	9,757296E+08	5,437699E+08
1076	1,933868E+08	1,849889E+07	0,000000E+00	0,000000E+00	1,849696E+07	1,933789E+08	5,437565E+08	9,756947E+08	1,307527E+09	1,307519E+09	9,756777E+08	5,437406E+08
1077	1,933681E+08	1,849490E+07	0,000000E+00	0,000000E+00	1,849774E+07	1,933788E+08	5,437486E+08	9,756908E+08	1,307533E+09	1,307510E+09	9,756450E+08	5,437188E+08
1078	1,933670E+08	1,849617E+07	0,000000E+00	0,000000E+00	1,849483E+07	1,933561E+08	5,436991E+08	9,756077E+08	1,307451E+09	1,307470E+09	9,756553E+08	5,437518E+08
1079	1,934004E+08	1,850821E+07	0,000000E+00	0,000000E+00	1,850821E+07	1,933985E+08	5,437460E+08	9,756341E+08	1,307430E+09	1,307404E+09	9,755733E+08	5,436904E+08
1080	1,933668E+08	1,850253E+07	0,000000E+00	0,000000E+00	1,850608E+07	1,933821E+08	5,437039E+08	9,755704E+08	1,307377E+09	1,307380E+09	9,755767E+08	5,437104E+08
1081	1,933901E+08	1,851121E+07	0,000000E+00	0,000000E+00	1,851005E+07	1,933823E+08	5,436935E+08	9,755314E+08	1,307313E+09	1,307323E+09	9,755579E+08	5,437230E+08
1082	1,934064E+08	1,851709E+07	0,000000E+00	0,000000E+00	1,852047E+07	1,934192E+08	5,437375E+08	9,755680E+08	1,307313E+09	1,307275E+09	9,754818E+08	5,436637E+08
1083	1,933772E+08	1,851234E+07	0,000000E+00	0,000000E+00	1,851444E+07	1,933851E+08	5,436712E+08	9,754804E+08	1,307256E+09	1,307276E+09	9,755272E+08	5,437149E+08
1084	1,934163E+08	1,852327E+07	0,000000E+00	0,000000E+00	1,851964E+07	1,934011E+08	5,436979E+08	9,755002E+08	1,307243E+09	1,307240E+09	9,754975E+08	5,437000E+08
1085	1,934055E+08	1,852150E+07	0,000000E+00	0,000000E+00	1,852335E+07	1,934118E+08	5,437041E+08	9,755149E+08	1,307269E+09	1,307249E+09	9,754727E+08	5,436695E+08
1086	1,933899E+08	1,851751E+07	0,000000E+00	0,000000E+00	1,851515E+07	1,933801E+08	5,436527E+08	9,754427E+08	1,307220E+09	1,307260E+09	9,755289E+08	5,437215E+08
1087	1,934206E+08	1,852412E+07	0,000000E+00	0,000000E+00	1,852209E+07	1,934155E+08	5,437179E+08	9,755191E+08	1,307254E+09	1,307247E+09	9,754915E+08	5,436809E+08
1088	1,933850E+08	1,851412E+07	0,000000E+00	0,000000E+00	1,851691E+07	1,933996E+08	5,437050E+08	9,755357E+08	1,307306E+09	1,307299E+09	9,755240E+08	5,436948E+08
1089	1,933898E+08	1,851169E+07	0,000000E+00	0,000000E+00	1,850889E+07	1,933777E+08	5,436878E+08	9,755362E+08	1,307333E+09	1,307346E+09	9,755725E+08	5,437276E+08
1090	1,934056E+08	1,851478E+07	0,000000E+00	0,000000E+00	1,851477E+07	1,934096E+08	5,437472E+08	9,756201E+08	1,307404E+09	1,307374E+09	9,755482E+08	5,436786E+08
1091	1,933650E+08	1,850285E+07	0,000000E+00	0,000000E+00	1,850326E+07	1,933718E+08	5,436944E+08	9,755749E+08	1,307409E+09	1,307431E+09	9,756214E+08	5,437292E+08
1092	1,933904E+08	1,850704E+07	0,000000E+00	0,000000E+00	1,850315E+07	1,933759E+08	5,437145E+08	9,756008E+08	1,307415E+09	1,307428E+09	9,756286E+08	5,437384E+08
1093	1,933898E+08	1,850676E+07	0,000000E+00	0,000000E+00	1,850841E+07	1,933970E+08	5,437449E+08	9,756460E+08	1,307457E+09	1,307433E+09	9,755912E+08	5,436957E+08
1094	1,933642E+08	1,849891E+07	0,000000E+00	0,000000E+00	1,849903E+07	1,933645E+08	5,436923E+08	9,755726E+08	1,307403E+09	1,307431E+09	9,756328E+08	5,437439E+08
1095	1,934005E+08	1,850996E+07	0,000000E+00	0,000000E+00	1,850802E+07	1,933925E+08	5,437358E+08	9,756112E+08	1,307397E+09	1,307383E+09	9,755812E+08	5,437099E+08
1096	1,933798E+08	1,850588E+07	0,000000E+00	0,000000E+00	1,850911E+07	1,933913E+08	5,437217E+08	9,755964E+08	1,307391E+09	1,307370E+09	9,755527E+08	5,436919E+08
1097	1,933789E+08	1,850742E+07	0,000000E+00	0,000000E+00	1,850681E+07	1,933701E+08	5,436714E+08	9,755151E+08	1,307320E+09	1,307339E+09	9,755662E+08	5,437252E+08
1098	1,934125E+08	1,851964E+07	0,000000E+00	0,000000E+00	1,851993E+07	1,934139E+08	5,437239E+08	9,755408E+08	1,307288E+09	1,307266E+09	9,754858E+08	5,436673E+08
1099	1,933794E+08	1,851369E+07	0,000000E+00	0,000000E+00	1,851796E+07	1,933975E+08	5,436807E+08	9,754721E+08	1,307222E+09	1,307229E+09	9,754833E+08	5,436891E+08
1100	1,934058E+08	1,852293E+07	0,000000E+00	0,000000E+00	1,852111E+07	1,933960E+08	5,436738E+08	9,754464E+08	1,307171E+09	1,307177E+09	9,754688E+08	5,437043E+08
1101	1,934235E+08	1,852949E+07	0,000000E+00	0,000000E+00	1,853139E+07	1,934289E+08	5,437087E+08	9,754780E+08	1,307182E+09	1,307145E+09	9,753977E+08	5,436446E+08
1102	1,933940E+08	1,852456E+07	0,000000E+00	0,000000E+00	1,852543E+07	1,933974E+08	5,436456E+08	9,753853E+08	1,307114E+09	1,307137E+09	9,754354E+08	5,436894E+08
1103	1,934300E+08	1,853487E+07	0,000000E+00	0,000000E+00	1,853098E+07	1,934147E+08	5,436722E+08	9,754050E+08	1,307102E+09	1,307106E+09	9,754105E+08	5,436735E+08
1104	1,934157E+08	1,853162E+07	0,000000E+00	0,000000E+00	1,853458E+07	1,934268E+08	5,436830E+08	9,754241E+08	1,307126E+09	1,307112E+09	9,753888E+08	5,436475E+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	1,933995E+08	1,852647E+07	0,000000E+00	0,000000E+00	1,852570E+07	1,933959E+08	5,436404E+08	9,753788E+08	1,307113E+09	1,307143E+09	9,754482E+08	5,436984E+08
1106	1,934298E+08	1,853267E+07	0,000000E+00	0,000000E+00	1,853111E+07	1,934279E+08	5,437072E+08	9,754639E+08	1,307160E+09	1,307143E+09	9,754184E+08	5,436597E+08
1107	1,933940E+08	1,852237E+07	0,000000E+00	0,000000E+00	1,852515E+07	1,934083E+08	5,436850E+08	9,754674E+08	1,307204E+09	1,307197E+09	9,754542E+08	5,436758E+08
1108	1,934011E+08	1,852068E+07	0,000000E+00	0,000000E+00	1,851667E+07	1,933850E+08	5,436672E+08	9,754672E+08	1,307228E+09	1,307245E+09	9,755125E+08	5,437140E+08
1109	1,934181E+08	1,852469E+07	0,000000E+00	0,000000E+00	1,852335E+07	1,934159E+08	5,437181E+08	9,755367E+08	1,307290E+09	1,307271E+09	9,754878E+08	5,436669E+08
1110	1,933784E+08	1,851272E+07	0,000000E+00	0,000000E+00	1,851289E+07	1,933851E+08	5,436758E+08	9,754883E+08	1,307273E+09	1,307300E+09	9,755400E+08	5,437090E+08
1111	1,934024E+08	1,851699E+07	0,000000E+00	0,000000E+00	1,851361E+07	1,933899E+08	5,436975E+08	9,755198E+08	1,307281E+09	1,307291E+09	9,755400E+08	5,437136E+08
1112	1,934008E+08	1,851645E+07	0,000000E+00	0,000000E+00	1,851892E+07	1,934095E+08	5,437244E+08	9,755648E+08	1,307325E+09	1,307295E+09	9,754997E+08	5,436716E+08
1113	1,933762E+08	1,850911E+07	0,000000E+00	0,000000E+00	1,850985E+07	1,933769E+08	5,436697E+08	9,754973E+08	1,307290E+09	1,307306E+09	9,755419E+08	5,437159E+08
1114	1,934124E+08	1,852086E+07	0,000000E+00	0,000000E+00	1,851858E+07	1,934036E+08	5,437103E+08	9,755249E+08	1,307270E+09	1,307258E+09	9,754969E+08	5,436848E+08
1115	1,933915E+08	1,851689E+07	0,000000E+00	0,000000E+00	1,852044E+07	1,934045E+08	5,436927E+08	9,754934E+08	1,307240E+09	1,307227E+09	9,754642E+08	5,436695E+08
1116	1,933929E+08	1,851912E+07	0,000000E+00	0,000000E+00	1,851838E+07	1,933859E+08	5,436519E+08	9,754222E+08	1,307167E+09	1,307192E+09	9,754802E+08	5,437065E+08
1117	1,934274E+08	1,853167E+07	0,000000E+00	0,000000E+00	1,853163E+07	1,934279E+08	5,437026E+08	9,754536E+08	1,307148E+09	1,307126E+09	9,753992E+08	5,436495E+08
1118	1,933963E+08	1,852583E+07	0,000000E+00	0,000000E+00	1,852988E+07	1,934140E+08	5,436637E+08	9,753866E+08	1,307083E+09	1,307081E+09	9,753838E+08	5,436627E+08
1119	1,934207E+08	1,853498E+07	0,000000E+00	0,000000E+00	1,853276E+07	1,934091E+08	5,436498E+08	9,753576E+08	1,307038E+09	1,307042E+09	9,753753E+08	5,436762E+08
1120	1,934363E+08	1,854087E+07	0,000000E+00	0,000000E+00	1,854284E+07	1,934403E+08	5,436789E+08	9,753813E+08	1,307041E+09	1,307010E+09	9,753122E+08	5,436225E+08
1121	1,934067E+08	1,853547E+07	0,000000E+00	0,000000E+00	1,853702E+07	1,934108E+08	5,436182E+08	9,752961E+08	1,306987E+09	1,307008E+09	9,753502E+08	5,436656E+08
1122	1,934406E+08	1,854480E+07	0,000000E+00	0,000000E+00	1,854155E+07	1,934288E+08	5,436525E+08	9,753203E+08	1,306970E+09	1,306977E+09	9,753295E+08	5,436527E+08
1123	1,934258E+08	1,854079E+07	0,000000E+00	0,000000E+00	1,854449E+07	1,934400E+08	5,436649E+08	9,753432E+08	1,306992E+09	1,306977E+09	9,753050E+08	5,436278E+08
1124	1,934119E+08	1,853581E+07	0,000000E+00	0,000000E+00	1,853430E+07	1,934064E+08	5,436255E+08	9,753133E+08	1,306999E+09	1,307023E+09	9,753725E+08	5,436799E+08
1125	1,934424E+08	1,854267E+07	0,000000E+00	0,000000E+00	1,853939E+07	1,934340E+08	5,436829E+08	9,753939E+08	1,307061E+09	1,307042E+09	9,753509E+08	5,436434E+08
1126	1,934078E+08	1,853259E+07	0,000000E+00	0,000000E+00	1,853397E+07	1,934183E+08	5,436630E+08	9,753885E+08	1,307089E+09	1,307084E+09	9,753782E+08	5,436534E+08
1127	1,934121E+08	1,853065E+07	0,000000E+00	0,000000E+00	1,852634E+07	1,933965E+08	5,436450E+08	9,753860E+08	1,307109E+09	1,307132E+09	9,754384E+08	5,436920E+08
1128	1,934273E+08	1,853372E+07	0,000000E+00	0,000000E+00	1,853349E+07	1,934289E+08	5,436986E+08	9,754558E+08	1,307163E+09	1,307147E+09	9,754133E+08	5,436500E+08
1129	1,933889E+08	1,852155E+07	0,000000E+00	0,000000E+00	1,852323E+07	1,933993E+08	5,436614E+08	9,754255E+08	1,307168E+09	1,307182E+09	9,754592E+08	5,436872E+08
1130	1,934126E+08	1,852603E+07	0,000000E+00	0,000000E+00	1,852336E+07	1,934022E+08	5,436807E+08	9,754518E+08	1,307173E+09	1,307177E+09	9,754619E+08	5,436924E+08
1131	1,934119E+08	1,852592E+07	0,000000E+00	0,000000E+00	1,852851E+07	1,934194E+08	5,436988E+08	9,754782E+08	1,307197E+09	1,307168E+09	9,754176E+08	5,436503E+08
1132	1,933897E+08	1,851984E+07	0,000000E+00	0,000000E+00	1,851988E+07	1,933877E+08	5,436448E+08	9,754090E+08	1,307154E+09	1,307176E+09	9,754626E+08	5,436961E+08
1133	1,934263E+08	1,853263E+07	0,000000E+00	0,000000E+00	1,852960E+07	1,934150E+08	5,436802E+08	9,754261E+08	1,307128E+09	1,307122E+09	9,754132E+08	5,436663E+08
1134	1,934070E+08	1,852879E+07	0,000000E+00	0,000000E+00	1,853260E+07	1,934228E+08	5,436739E+08	9,753950E+08	1,307080E+09	1,307066E+09	9,753618E+08	5,436432E+08
1135	1,934071E+08	1,853120E+07	0,000000E+00	0,000000E+00	1,853094E+07	1,934032E+08	5,436349E+08	9,753352E+08	1,307019E+09	1,307036E+09	9,753764E+08	5,436782E+08
1136	1,934406E+08	1,854306E+07	0,000000E+00	0,000000E+00	1,854372E+07	1,934419E+08	5,436788E+08	9,753641E+08	1,307005E+09	1,306976E+09	9,753005E+08	5,436248E+08
1137	1,934109E+08	1,853768E+07	0,000000E+00	0,000000E+00	1,854191E+07	1,934267E+08	5,436374E+08	9,753040E+08	1,306961E+09	1,306951E+09	9,752908E+08	5,436354E+08
1138	1,934338E+08	1,854655E+07	0,000000E+00	0,000000E+00	1,854404E+07	1,934209E+08	5,436209E+08	9,752639E+08	1,306905E+09	1,306917E+09	9,752934E+08	5,436531E+08
1139	1,934480E+08	1,855167E+07	0,000000E+00	0,000000E+00	1,855373E+07	1,934525E+08	5,436487E+08	9,752775E+08	1,306891E+09	1,306870E+09	9,752281E+08	5,436027E+08
1140	1,934202E+08	1,854618E+07	0,000000E+00	0,000000E+00	1,854753E+07	1,934253E+08	5,436008E+08	9,752116E+08	1,306845E+09	1,306871E+09	9,752702E+08	5,436482E+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°
1141	1,934541E+08	1,855530E+07	0,000000E+00	0,000000E+00	1,855131E+07	1,934399E+08	5,436326E+08	9,752454E+08	1,306850E+09	1,306852E+09	9,752508E+08	5,436365E+08
1142	1,934406E+08	1,855111E+07	0,000000E+00	0,000000E+00	1,855407E+07	1,934536E+08	5,436501E+08	9,752721E+08	1,306876E+09	1,306852E+09	9,752188E+08	5,436036E+08
1143	1,934240E+08	1,854592E+07	0,000000E+00	0,000000E+00	1,854355E+07	1,934168E+08	5,436068E+08	9,752443E+08	1,306895E+09	1,306916E+09	9,752956E+08	5,436550E+08
1144	1,934513E+08	1,855177E+07	0,000000E+00	0,000000E+00	1,854873E+07	1,934431E+08	5,436579E+08	9,753153E+08	1,306949E+09	1,306936E+09	9,752838E+08	5,436258E+08
1145	1,934179E+08	1,854165E+07	0,000000E+00	0,000000E+00	1,854379E+07	1,934301E+08	5,436415E+08	9,753176E+08	1,306988E+09	1,306980E+09	9,753081E+08	5,436334E+08
1146	1,934203E+08	1,853891E+07	0,000000E+00	0,000000E+00	1,853591E+07	1,934099E+08	5,436286E+08	9,753128E+08	1,306994E+09	1,307020E+09	9,753681E+08	5,436744E+08
1147	1,934364E+08	1,854178E+07	0,000000E+00	0,000000E+00	1,854257E+07	1,934399E+08	5,436793E+08	9,753788E+08	1,307037E+09	1,307019E+09	9,753333E+08	5,436323E+08
1148	1,934018E+08	1,853074E+07	0,000000E+00	0,000000E+00	1,853219E+07	1,934101E+08	5,436437E+08	9,753537E+08	1,307047E+09	1,307057E+09	9,753801E+08	5,436684E+08
1149	1,934265E+08	1,853668E+07	0,000000E+00	0,000000E+00	1,853264E+07	1,934097E+08	5,436522E+08	9,753680E+08	1,307053E+09	1,307058E+09	9,753840E+08	5,436743E+08
1150	1,934277E+08	1,853734E+07	0,000000E+00	0,000000E+00	1,853904E+07	1,934330E+08	5,436741E+08	9,753830E+08	1,307054E+09	1,307028E+09	9,753258E+08	5,436244E+08
1151	1,934031E+08	1,853162E+07	0,000000E+00	0,000000E+00	1,853157E+07	1,934030E+08	5,436222E+08	9,753148E+08	1,307009E+09	1,307033E+09	9,753671E+08	5,436677E+08
1152	1,934369E+08	1,854343E+07	0,000000E+00	0,000000E+00	1,854179E+07	1,934315E+08	5,436604E+08	9,753362E+08	1,306982E+09	1,306975E+09	9,753193E+08	5,436433E+08
1153	1,934203E+08	1,853988E+07	0,000000E+00	0,000000E+00	1,854492E+07	1,934394E+08	5,436572E+08	9,753238E+08	1,306961E+09	1,306929E+09	9,752639E+08	5,436152E+08
1154	1,934191E+08	1,854213E+07	0,000000E+00	0,000000E+00	1,854256E+07	1,934175E+08	5,436142E+08	9,752554E+08	1,306897E+09	1,306908E+09	9,752885E+08	5,436543E+08
1155	1,934535E+08	1,855404E+07	0,000000E+00	0,000000E+00	1,855448E+07	1,934520E+08	5,436483E+08	9,752669E+08	1,306864E+09	1,306841E+09	9,752149E+08	5,436048E+08
1156	1,934271E+08	1,854967E+07	0,000000E+00	0,000000E+00	1,855293E+07	1,934377E+08	5,436068E+08	9,752029E+08	1,306812E+09	1,306815E+09	9,752115E+08	5,436180E+08
1157	1,934499E+08	1,855888E+07	0,000000E+00	0,000000E+00	1,855515E+07	1,934321E+08	5,435875E+08	9,751569E+08	1,306755E+09	1,306778E+09	9,752111E+08	5,436370E+08
1158	1,934646E+08	1,856344E+07	0,000000E+00	0,000000E+00	1,856518E+07	1,934695E+08	5,436283E+08	9,751777E+08	1,306730E+09	1,306711E+09	9,751280E+08	5,435774E+08
1159	1,934341E+08	1,855747E+07	0,000000E+00	0,000000E+00	1,855868E+07	1,934406E+08	5,435851E+08	9,751332E+08	1,306711E+09	1,306726E+09	9,751697E+08	5,436185E+08
1160	1,934644E+08	1,856510E+07	0,000000E+00	0,000000E+00	1,856171E+07	1,934524E+08	5,436135E+08	9,751723E+08	1,306733E+09	1,306726E+09	9,751626E+08	5,436117E+08
1161	1,934521E+08	1,856108E+07	0,000000E+00	0,000000E+00	1,856414E+07	1,934648E+08	5,436311E+08	9,752107E+08	1,306784E+09	1,306749E+09	9,751404E+08	5,435774E+08
1162	1,934324E+08	1,855499E+07	0,000000E+00	0,000000E+00	1,855318E+07	1,934287E+08	5,435871E+08	9,751734E+08	1,306793E+09	1,306819E+09	9,752315E+08	5,436356E+08
1163	1,934591E+08	1,855999E+07	0,000000E+00	0,000000E+00	1,855777E+07	1,934542E+08	5,436359E+08	9,752333E+08	1,306828E+09	1,306825E+09	9,752186E+08	5,436118E+08
1164	1,934291E+08	1,855017E+07	0,000000E+00	0,000000E+00	1,855269E+07	1,934426E+08	5,436277E+08	9,752472E+08	1,306870E+09	1,306869E+09	9,752443E+08	5,436206E+08
1165	1,934328E+08	1,854796E+07	0,000000E+00	0,000000E+00	1,854455E+07	1,934191E+08	5,436079E+08	9,752420E+08	1,306886E+09	1,306910E+09	9,752984E+08	5,436612E+08
1166	1,934512E+08	1,855145E+07	0,000000E+00	0,000000E+00	1,855140E+07	1,934509E+08	5,436586E+08	9,752998E+08	1,306916E+09	1,306894E+09	9,752479E+08	5,436094E+08
1167	1,934155E+08	1,854132E+07	0,000000E+00	0,000000E+00	1,854176E+07	1,934204E+08	5,436213E+08	9,752745E+08	1,306928E+09	1,306934E+09	9,752929E+08	5,436415E+08
1168	1,934372E+08	1,854685E+07	0,000000E+00	0,000000E+00	1,854323E+07	1,934209E+08	5,436242E+08	9,752762E+08	1,306919E+09	1,306926E+09	9,752985E+08	5,436514E+08
1169	1,934400E+08	1,854808E+07	0,000000E+00	0,000000E+00	1,855059E+07	1,934483E+08	5,436532E+08	9,753010E+08	1,306926E+09	1,306894E+09	9,752347E+08	5,435976E+08
1170	1,934131E+08	1,854193E+07	0,000000E+00	0,000000E+00	1,854342E+07	1,934206E+08	5,436069E+08	9,752328E+08	1,306875E+09	1,306897E+09	9,752783E+08	5,436434E+08
1171	1,934474E+08	1,855338E+07	0,000000E+00	0,000000E+00	1,855266E+07	1,934445E+08	5,436381E+08	9,752480E+08	1,306841E+09	1,306830E+09	9,752260E+08	5,436213E+08
1172	1,934357E+08	1,855130E+07	0,000000E+00	0,000000E+00	1,855582E+07	1,934514E+08	5,436330E+08	9,752357E+08	1,306826E+09	1,306796E+09	9,751785E+08	5,435946E+08
1173	1,934362E+08	1,855491E+07	0,000000E+00	0,000000E+00	1,855358E+07	1,934263E+08	5,435783E+08	9,751531E+08	1,306758E+09	1,306777E+09	9,752054E+08	5,436365E+08
1174	1,934721E+08	1,856699E+07	0,000000E+00	0,000000E+00	1,856614E+07	1,934657E+08	5,436160E+08	9,751542E+08	1,306702E+09	1,306687E+09	9,751181E+08	5,435804E+08
1175	1,934432E+08	1,856258E+07	0,000000E+00	0,000000E+00	1,856542E+07	1,934543E+08	5,435832E+08	9,751015E+08	1,306654E+09	1,306659E+09	9,751101E+08	5,435904E+08
1176	1,934619E+08	1,856987E+07	0,000000E+00	0,000000E+00	1,856734E+07	1,934492E+08	5,435690E+08	9,750677E+08	1,306606E+09	1,306626E+09	9,751138E+08	5,436122E+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												
1177	1,934772E+08	1,857402E+07	0,000000E+00	0,000000E+00	1,857669E+07	1,934858E+08	5,436162E+08	9,751151E+08	1,306619E+09	1,306581E+09	9,750335E+08	5,435479E+08
1178	1,934433E+08	1,856703E+07	0,000000E+00	0,000000E+00	1,856911E+07	1,934550E+08	5,435715E+08	9,750695E+08	1,306611E+09	1,306620E+09	9,750919E+08	5,435930E+08
1179	1,934720E+08	1,857367E+07	0,000000E+00	0,000000E+00	1,857064E+07	1,934614E+08	5,435906E+08	9,750973E+08	1,306625E+09	1,306621E+09	9,750936E+08	5,435931E+08
1180	1,934637E+08	1,857050E+07	0,000000E+00	0,000000E+00	1,857315E+07	1,934744E+08	5,436078E+08	9,751319E+08	1,306673E+09	1,306651E+09	9,750831E+08	5,435644E+08
1181	1,934449E+08	1,856461E+07	0,000000E+00	0,000000E+00	1,856201E+07	1,934377E+08	5,435608E+08	9,750887E+08	1,306676E+09	1,306714E+09	9,751710E+08	5,436264E+08
1182	1,934736E+08	1,856943E+07	0,000000E+00	0,000000E+00	1,856671E+07	1,934665E+08	5,436168E+08	9,751492E+08	1,306693E+09	1,306693E+09	9,751384E+08	5,435943E+08
1183	1,934431E+08	1,856001E+07	0,000000E+00	0,000000E+00	1,856174E+07	1,934529E+08	5,436092E+08	9,751733E+08	1,306748E+09	1,306739E+09	9,751551E+08	5,435963E+08
1184	1,934439E+08	1,855720E+07	0,000000E+00	0,000000E+00	1,855388E+07	1,934287E+08	5,435844E+08	9,751631E+08	1,306768E+09	1,306787E+09	9,752138E+08	5,436378E+08
1185	1,934637E+08	1,856167E+07	0,000000E+00	0,000000E+00	1,856127E+07	1,934615E+08	5,436365E+08	9,752282E+08	1,306808E+09	1,306777E+09	9,751626E+08	5,435805E+08
1186	1,934244E+08	1,855111E+07	0,000000E+00	0,000000E+00	1,855243E+07	1,934348E+08	5,436011E+08	9,751936E+08	1,306808E+09	1,306817E+09	9,752135E+08	5,436158E+08
1187	1,934448E+08	1,855607E+07	0,000000E+00	0,000000E+00	1,855381E+07	1,934353E+08	5,436043E+08	9,751890E+08	1,306783E+09	1,306794E+09	9,752157E+08	5,436303E+08
1188	1,934522E+08	1,855824E+07	0,000000E+00	0,000000E+00	1,856143E+07	1,934636E+08	5,436381E+08	9,752212E+08	1,306794E+09	1,306766E+09	9,751561E+08	5,435795E+08
1189	1,934279E+08	1,855319E+07	0,000000E+00	0,000000E+00	1,855419E+07	1,934326E+08	5,435835E+08	9,751499E+08	1,306749E+09	1,306770E+09	9,751970E+08	5,436270E+08
1190	1,934651E+08	1,856527E+07	0,000000E+00	0,000000E+00	1,856348E+07	1,934570E+08	5,436114E+08	9,751504E+08	1,306696E+09	1,306687E+09	9,751324E+08	5,435978E+08
1191	1,934531E+08	1,856422E+07	0,000000E+00	0,000000E+00	1,856745E+07	1,934631E+08	5,436033E+08	9,751353E+08	1,306678E+09	1,306652E+09	9,750819E+08	5,435680E+08
1192	1,934504E+08	1,856706E+07	0,000000E+00	0,000000E+00	1,856617E+07	1,934407E+08	5,435464E+08	9,750435E+08	1,306598E+09	1,306625E+09	9,751099E+08	5,436127E+08
1193	1,934867E+08	1,857897E+07	0,000000E+00	0,000000E+00	1,857888E+07	1,934830E+08	5,435949E+08	9,750628E+08	1,306554E+09	1,306533E+09	9,750151E+08	5,435500E+08
1194	1,934536E+08	1,857333E+07	0,000000E+00	0,000000E+00	1,857806E+07	1,934739E+08	5,435708E+08	9,750207E+08	1,306513E+09	1,306511E+09	9,750115E+08	5,435614E+08
1195	1,934708E+08	1,857942E+07	0,000000E+00	0,000000E+00	1,857801E+07	1,934631E+08	5,435518E+08	9,749904E+08	1,306477E+09	1,306486E+09	9,750191E+08	5,435861E+08
1196	1,934896E+08	1,858435E+07	0,000000E+00	0,000000E+00	1,858659E+07	1,934972E+08	5,435969E+08	9,750404E+08	1,306507E+09	1,306471E+09	9,749607E+08	5,435282E+08
1197	1,934575E+08	1,857812E+07	0,000000E+00	0,000000E+00	1,857842E+07	1,934626E+08	5,435431E+08	9,749875E+08	1,306502E+09	1,306520E+09	9,750291E+08	5,435792E+08
1198	1,934869E+08	1,858425E+07	0,000000E+00	0,000000E+00	1,857986E+07	1,934716E+08	5,435629E+08	9,750037E+08	1,306493E+09	1,306502E+09	9,750217E+08	5,435764E+08
1199	1,934778E+08	1,858120E+07	0,000000E+00	0,000000E+00	1,858282E+07	1,934858E+08	5,435869E+08	9,750495E+08	1,306547E+09	1,306529E+09	9,750064E+08	5,435460E+08
1200	1,934561E+08	1,857360E+07	0,000000E+00	0,000000E+00	1,857175E+07	1,934500E+08	5,435420E+08	9,750116E+08	1,306552E+09	1,306589E+09	9,750924E+08	5,436081E+08
1201	1,934855E+08	1,857848E+07	0,000000E+00	0,000000E+00	1,857595E+07	1,934774E+08	5,436017E+08	9,750900E+08	1,306592E+09	1,306577E+09	9,750552E+08	5,435684E+08
1202	1,934517E+08	1,856859E+07	0,000000E+00	0,000000E+00	1,857111E+07	1,934654E+08	5,435947E+08	9,751089E+08	1,306646E+09	1,306633E+09	9,750802E+08	5,435713E+08
1203	1,934509E+08	1,856538E+07	0,000000E+00	0,000000E+00	1,856261E+07	1,934378E+08	5,435614E+08	9,750848E+08	1,306651E+09	1,306674E+09	9,751394E+08	5,436158E+08
1204	1,934743E+08	1,857116E+07	0,000000E+00	0,000000E+00	1,857090E+07	1,934734E+08	5,436149E+08	9,751437E+08	1,306686E+09	1,306668E+09	9,750962E+08	5,435636E+08
1205	1,934371E+08	1,856150E+07	0,000000E+00	0,000000E+00	1,856258E+07	1,934475E+08	5,435788E+08	9,751063E+08	1,306678E+09	1,306695E+09	9,751400E+08	5,436005E+08
1206	1,934591E+08	1,856650E+07	0,000000E+00	0,000000E+00	1,856428E+07	1,934498E+08	5,435851E+08	9,750999E+08	1,306637E+09	1,306647E+09	9,751230E+08	5,436081E+08
1207	1,934676E+08	1,856976E+07	0,000000E+00	0,000000E+00	1,857225E+07	1,934759E+08	5,436172E+08	9,751383E+08	1,306660E+09	1,306621E+09	9,750568E+08	5,435535E+08
1208	1,934421E+08	1,856467E+07	0,000000E+00	0,000000E+00	1,856585E+07	1,934448E+08	5,435554E+08	9,750552E+08	1,306609E+09	1,306628E+09	9,751024E+08	5,436026E+08
1209	1,934810E+08	1,857765E+07	0,000000E+00	0,000000E+00	1,857539E+07	1,934695E+08	5,435842E+08	9,750600E+08	1,306558E+09	1,306546E+09	9,750359E+08	5,435681E+08
1210	1,934651E+08	1,857604E+07	0,000000E+00	0,000000E+00	1,858035E+07	1,934809E+08	5,435804E+08	9,750373E+08	1,306529E+09	1,306508E+09	9,749890E+08	5,435404E+08
1211	1,934603E+08	1,857776E+07	0,000000E+00	0,000000E+00	1,857824E+07	1,934574E+08	5,435259E+08	9,749474E+08	1,306443E+09	1,306472E+09	9,750129E+08	5,435873E+08
1212	1,934995E+08	1,858988E+07	0,000000E+00	0,000000E+00	1,859044E+07	1,934993E+08	5,435788E+08	9,749792E+08	1,306417E+09	1,306397E+09	9,749286E+08	5,435283E+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												
1213	1,934684E+08	1,858483E+07	0,000000E+00	0,000000E+00	1,858865E+07	1,934857E+08	5,435490E+08	9,749419E+08	1,306395E+09	1,306388E+09	9,749305E+08	5,435427E+08
1214	1,934866E+08	1,859067E+07	0,000000E+00	0,000000E+00	1,858785E+07	1,934738E+08	5,435270E+08	9,749035E+08	1,306349E+09	1,306360E+09	9,749361E+08	5,435644E+08
1215	1,935050E+08	1,859628E+07	0,000000E+00	0,000000E+00	1,859659E+07	1,935058E+08	5,435684E+08	9,749523E+08	1,306380E+09	1,306349E+09	9,748819E+08	5,435083E+08
1216	1,934707E+08	1,858893E+07	0,000000E+00	0,000000E+00	1,858912E+07	1,934739E+08	5,435139E+08	9,748918E+08	1,306368E+09	1,306397E+09	9,749553E+08	5,435627E+08
1217	1,935001E+08	1,859445E+07	0,000000E+00	0,000000E+00	1,859021E+07	1,934848E+08	5,435451E+08	9,749270E+08	1,306367E+09	1,306375E+09	9,749394E+08	5,435530E+08
1218	1,934866E+08	1,858999E+07	0,000000E+00	0,000000E+00	1,859309E+07	1,935008E+08	5,435743E+08	9,749796E+08	1,306427E+09	1,306404E+09	9,749247E+08	5,435220E+08
1219	1,934630E+08	1,858130E+07	0,000000E+00	0,000000E+00	1,858052E+07	1,934607E+08	5,435251E+08	9,749428E+08	1,306438E+09	1,306466E+09	9,750090E+08	5,435844E+08
1220	1,934956E+08	1,858724E+07	0,000000E+00	0,000000E+00	1,858464E+07	1,934868E+08	5,435814E+08	9,750169E+08	1,306487E+09	1,306476E+09	9,749877E+08	5,435490E+08
1221	1,934637E+08	1,857849E+07	0,000000E+00	0,000000E+00	1,857998E+07	1,934741E+08	5,435703E+08	9,750315E+08	1,306538E+09	1,306530E+09	9,750151E+08	5,435552E+08
1222	1,934635E+08	1,857527E+07	0,000000E+00	0,000000E+00	1,857217E+07	1,934506E+08	5,435399E+08	9,749974E+08	1,306518E+09	1,306548E+09	9,750615E+08	5,435954E+08
1223	1,934866E+08	1,858173E+07	0,000000E+00	0,000000E+00	1,858116E+07	1,934871E+08	5,435989E+08	9,750656E+08	1,306557E+09	1,306536E+09	9,750119E+08	5,435431E+08
1224	1,934491E+08	1,857143E+07	0,000000E+00	0,000000E+00	1,857357E+07	1,934620E+08	5,435615E+08	9,750291E+08	1,306552E+09	1,306564E+09	9,750542E+08	5,435797E+08
1225	1,934728E+08	1,857709E+07	0,000000E+00	0,000000E+00	1,857496E+07	1,934621E+08	5,435678E+08	9,750312E+08	1,306522E+09	1,306519E+09	9,750313E+08	5,435803E+08
1226	1,934786E+08	1,858029E+07	0,000000E+00	0,000000E+00	1,858351E+07	1,934895E+08	5,435960E+08	9,750567E+08	1,306535E+09	1,306495E+09	9,749712E+08	5,435274E+08
1227	1,934524E+08	1,857522E+07	0,000000E+00	0,000000E+00	1,857705E+07	1,934565E+08	5,435263E+08	9,749573E+08	1,306463E+09	1,306488E+09	9,750133E+08	5,435793E+08
1228	1,934949E+08	1,858923E+07	0,000000E+00	0,000000E+00	1,858718E+07	1,934836E+08	5,435556E+08	9,749541E+08	1,306407E+09	1,306411E+09	9,749545E+08	5,435492E+08
1229	1,934810E+08	1,858830E+07	0,000000E+00	0,000000E+00	1,859223E+07	1,934960E+08	5,435564E+08	9,749376E+08	1,306375E+09	1,306361E+09	9,749005E+08	5,435218E+08
1230	1,934767E+08	1,858965E+07	0,000000E+00	0,000000E+00	1,858964E+07	1,934721E+08	5,435038E+08	9,748507E+08	1,306285E+09	1,306309E+09	9,749088E+08	5,435608E+08
1231	1,935153E+08	1,860237E+07	0,000000E+00	0,000000E+00	1,860143E+07	1,935109E+08	5,435557E+08	9,748936E+08	1,306281E+09	1,306250E+09	9,748276E+08	5,435021E+08
1232	1,934833E+08	1,859689E+07	0,000000E+00	0,000000E+00	1,860011E+07	1,934972E+08	5,435207E+08	9,748508E+08	1,306263E+09	1,306257E+09	9,748421E+08	5,435187E+08
1233	1,935010E+08	1,860242E+07	0,000000E+00	0,000000E+00	1,859887E+07	1,934853E+08	5,435028E+08	9,748219E+08	1,306224E+09	1,306235E+09	9,748511E+08	5,435376E+08
1234	1,935147E+08	1,860669E+07	0,000000E+00	0,000000E+00	1,860819E+07	1,935221E+08	5,435502E+08	9,748693E+08	1,306252E+09	1,306227E+09	9,748061E+08	5,434868E+08
1235	1,934785E+08	1,859768E+07	0,000000E+00	0,000000E+00	1,859939E+07	1,934883E+08	5,434977E+08	9,748135E+08	1,306238E+09	1,306268E+09	9,748762E+08	5,435433E+08
1236	1,935102E+08	1,860299E+07	0,000000E+00	0,000000E+00	1,859965E+07	1,934972E+08	5,435295E+08	9,748566E+08	1,306257E+09	1,306267E+09	9,748713E+08	5,435367E+08
1237	1,934987E+08	1,859912E+07	0,000000E+00	0,000000E+00	1,860149E+07	1,935096E+08	5,435549E+08	9,749121E+08	1,306326E+09	1,306302E+09	9,748577E+08	5,435063E+08
1238	1,934755E+08	1,859030E+07	0,000000E+00	0,000000E+00	1,858856E+07	1,934691E+08	5,435028E+08	9,748666E+08	1,306324E+09	1,306352E+09	9,749335E+08	5,435630E+08
1239	1,935075E+08	1,859727E+07	0,000000E+00	0,000000E+00	1,859338E+07	1,934948E+08	5,435577E+08	9,749404E+08	1,306372E+09	1,306361E+09	9,749126E+08	5,435300E+08
1240	1,934753E+08	1,858822E+07	0,000000E+00	0,000000E+00	1,859014E+07	1,934866E+08	5,435477E+08	9,749475E+08	1,306413E+09	1,306410E+09	9,749398E+08	5,435370E+08
1241	1,934752E+08	1,858506E+07	0,000000E+00	0,000000E+00	1,858252E+07	1,934650E+08	5,435279E+08	9,749293E+08	1,306396E+09	1,306418E+09	9,749749E+08	5,435699E+08
1242	1,934952E+08	1,859092E+07	0,000000E+00	0,000000E+00	1,859198E+07	1,935025E+08	5,435865E+08	9,749966E+08	1,306437E+09	1,306407E+09	9,749260E+08	5,435184E+08
1243	1,934580E+08	1,858060E+07	0,000000E+00	0,000000E+00	1,858365E+07	1,934732E+08	5,435399E+08	9,749502E+08	1,306427E+09	1,306433E+09	9,749656E+08	5,435559E+08
1244	1,934858E+08	1,858788E+07	0,000000E+00	0,000000E+00	1,858547E+07	1,934720E+08	5,435380E+08	9,749380E+08	1,306396E+09	1,306404E+09	9,749559E+08	5,435610E+08
1245	1,934945E+08	1,859242E+07	0,000000E+00	0,000000E+00	1,859427E+07	1,934994E+08	5,435627E+08	9,749545E+08	1,306394E+09	1,306366E+09	9,748928E+08	5,435107E+08
1246	1,934692E+08	1,858755E+07	0,000000E+00	0,000000E+00	1,858877E+07	1,934711E+08	5,434983E+08	9,748486E+08	1,306298E+09	1,306329E+09	9,749166E+08	5,435563E+08
1247	1,935110E+08	1,860198E+07	0,000000E+00	0,000000E+00	1,859923E+07	1,934987E+08	5,435337E+08	9,748580E+08	1,306248E+09	1,306245E+09	9,748501E+08	5,435251E+08
1248	1,934961E+08	1,860035E+07	0,000000E+00	0,000000E+00	1,860485E+07	1,935123E+08	5,435354E+08	9,748479E+08	1,306228E+09	1,306206E+09	9,747985E+08	5,434959E+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												
1249	1,934917E+08	1,860174E+07	0,000000E+00	0,000000E+00	1,860147E+07	1,934871E+08	5,434877E+08	9,747760E+08	1,306157E+09	1,306168E+09	9,748082E+08	5,435281E+08
1250	1,935252E+08	1,861338E+07	0,000000E+00	0,000000E+00	1,861331E+07	1,935258E+08	5,435355E+08	9,748122E+08	1,306156E+09	1,306124E+09	9,747421E+08	5,434752E+08
1251	1,934928E+08	1,860730E+07	0,000000E+00	0,000000E+00	1,861132E+07	1,935097E+08	5,434945E+08	9,747612E+08	1,306131E+09	1,306130E+09	9,747612E+08	5,434975E+08
1252	1,935128E+08	1,861273E+07	0,000000E+00	0,000000E+00	1,860990E+07	1,934990E+08	5,434773E+08	9,747286E+08	1,306095E+09	1,306122E+09	9,747823E+08	5,435224E+08
1253	1,935279E+08	1,861687E+07	0,000000E+00	0,000000E+00	1,861817E+07	1,935344E+08	5,435299E+08	9,747871E+08	1,306124E+09	1,306104E+09	9,747334E+08	5,434733E+08
1254	1,934923E+08	1,860713E+07	0,000000E+00	0,000000E+00	1,860852E+07	1,934994E+08	5,434786E+08	9,747350E+08	1,306107E+09	1,306131E+09	9,747888E+08	5,435223E+08
1255	1,935235E+08	1,861295E+07	0,000000E+00	0,000000E+00	1,860815E+07	1,935050E+08	5,435074E+08	9,747841E+08	1,306143E+09	1,306143E+09	9,747874E+08	5,435159E+08
1256	1,935114E+08	1,860901E+07	0,000000E+00	0,000000E+00	1,861074E+07	1,935186E+08	5,435297E+08	9,748335E+08	1,306214E+09	1,306191E+09	9,747830E+08	5,434859E+08
1257	1,934878E+08	1,860033E+07	0,000000E+00	0,000000E+00	1,859792E+07	1,934803E+08	5,434853E+08	9,747975E+08	1,306214E+09	1,306240E+09	9,748554E+08	5,435364E+08
1258	1,935141E+08	1,860618E+07	0,000000E+00	0,000000E+00	1,860387E+07	1,935107E+08	5,435447E+08	9,748704E+08	1,306260E+09	1,306248E+09	9,748394E+08	5,435081E+08
1259	1,934823E+08	1,859644E+07	0,000000E+00	0,000000E+00	1,859994E+07	1,935007E+08	5,435345E+08	9,748799E+08	1,306297E+09	1,306289E+09	9,748613E+08	5,435169E+08
1260	1,934853E+08	1,859380E+07	0,000000E+00	0,000000E+00	1,859222E+07	1,934770E+08	5,435096E+08	9,748589E+08	1,306292E+09	1,306315E+09	9,749066E+08	5,435543E+08
1261	1,935088E+08	1,860091E+07	0,000000E+00	0,000000E+00	1,860101E+07	1,935109E+08	5,435624E+08	9,749198E+08	1,306326E+09	1,306298E+09	9,748569E+08	5,435046E+08
1262	1,934738E+08	1,859135E+07	0,000000E+00	0,000000E+00	1,859327E+07	1,934817E+08	5,435089E+08	9,748532E+08	1,306286E+09	1,306298E+09	9,748811E+08	5,435356E+08
1263	1,935019E+08	1,860017E+07	0,000000E+00	0,000000E+00	1,859627E+07	1,934818E+08	5,435046E+08	9,748340E+08	1,306245E+09	1,306257E+09	9,748663E+08	5,435420E+08
1264	1,935106E+08	1,860467E+07	0,000000E+00	0,000000E+00	1,860676E+07	1,935152E+08	5,435342E+08	9,748458E+08	1,306230E+09	1,306210E+09	9,747958E+08	5,434879E+08
1265	1,934846E+08	1,859973E+07	0,000000E+00	0,000000E+00	1,860139E+07	1,934893E+08	5,434838E+08	9,747624E+08	1,306142E+09	1,306162E+09	9,748038E+08	5,435220E+08
1266	1,935207E+08	1,861299E+07	0,000000E+00	0,000000E+00	1,861205E+07	1,935174E+08	5,435200E+08	9,747792E+08	1,306109E+09	1,306091E+09	9,747427E+08	5,434923E+08
1267	1,935060E+08	1,861108E+07	0,000000E+00	0,000000E+00	1,861657E+07	1,935265E+08	5,435138E+08	9,747649E+08	1,306095E+09	1,306063E+09	9,746984E+08	5,434666E+08
1268	1,935041E+08	1,861316E+07	0,000000E+00	0,000000E+00	1,861304E+07	1,934996E+08	5,434599E+08	9,746854E+08	1,306035E+09	1,306056E+09	9,747317E+08	5,435073E+08
1269	1,935395E+08	1,862507E+07	0,000000E+00	0,000000E+00	1,862417E+07	1,935374E+08	5,435072E+08	9,747185E+08	1,306025E+09	1,306006E+09	9,746720E+08	5,434614E+08
1270	1,935083E+08	1,861857E+07	0,000000E+00	0,000000E+00	1,862214E+07	1,935229E+08	5,434692E+08	9,746640E+08	1,305984E+09	1,305992E+09	9,746788E+08	5,434798E+08
1271	1,935277E+08	1,862373E+07	0,000000E+00	0,000000E+00	1,862007E+07	1,935108E+08	5,434556E+08	9,746455E+08	1,305962E+09	1,305983E+09	9,746976E+08	5,435057E+08
1272	1,935423E+08	1,862711E+07	0,000000E+00	0,000000E+00	1,862816E+07	1,935456E+08	5,435075E+08	9,747081E+08	1,306003E+09	1,305978E+09	9,746505E+08	5,434535E+08
1273	1,935060E+08	1,861719E+07	0,000000E+00	0,000000E+00	1,861773E+07	1,935103E+08	5,434638E+08	9,746707E+08	1,305998E+09	1,306011E+09	9,747015E+08	5,434930E+08
1274	1,935310E+08	1,862192E+07	0,000000E+00	0,000000E+00	1,861784E+07	1,935170E+08	5,434897E+08	9,747153E+08	1,306037E+09	1,306034E+09	9,747120E+08	5,434911E+08
1275	1,935187E+08	1,861762E+07	0,000000E+00	0,000000E+00	1,862017E+07	1,935302E+08	5,435084E+08	9,747571E+08	1,306100E+09	1,306080E+09	9,747114E+08	5,434661E+08
1276	1,934972E+08	1,860913E+07	0,000000E+00	0,000000E+00	1,860780E+07	1,934943E+08	5,434664E+08	9,747198E+08	1,306105E+09	1,306143E+09	9,747933E+08	5,435213E+08
1277	1,935249E+08	1,861508E+07	0,000000E+00	0,000000E+00	1,861292E+07	1,935223E+08	5,435280E+08	9,747986E+08	1,306146E+09	1,306137E+09	9,747717E+08	5,434954E+08
1278	1,934958E+08	1,860572E+07	0,000000E+00	0,000000E+00	1,860875E+07	1,935103E+08	5,435130E+08	9,748020E+08	1,306174E+09	1,306160E+09	9,747772E+08	5,434972E+08
1279	1,934998E+08	1,860442E+07	0,000000E+00	0,000000E+00	1,860141E+07	1,934845E+08	5,434812E+08	9,747746E+08	1,306168E+09	1,306184E+09	9,748212E+08	5,435351E+08
1280	1,935242E+08	1,861218E+07	0,000000E+00	0,000000E+00	1,861146E+07	1,935201E+08	5,435296E+08	9,748218E+08	1,306188E+09	1,306167E+09	9,747723E+08	5,434838E+08
1281	1,934893E+08	1,860329E+07	0,000000E+00	0,000000E+00	1,860486E+07	1,934969E+08	5,434883E+08	9,747628E+08	1,306139E+09	1,306150E+09	9,747826E+08	5,435052E+08
1282	1,935118E+08	1,861118E+07	0,000000E+00	0,000000E+00	1,860915E+07	1,935017E+08	5,434887E+08	9,747445E+08	1,306096E+09	1,306105E+09	9,747673E+08	5,435129E+08
1283	1,935204E+08	1,861499E+07	0,000000E+00	0,000000E+00	1,861898E+07	1,935334E+08	5,435190E+08	9,747631E+08	1,306088E+09	1,306056E+09	9,746933E+08	5,434597E+08
1284	1,934965E+08	1,861060E+07	0,000000E+00	0,000000E+00	1,861338E+07	1,935053E+08	5,434640E+08	9,746821E+08	1,306023E+09	1,306039E+09	9,747151E+08	5,434968E+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												
1285	1,935337E+08	1,862415E+07	0,000000E+00	0,000000E+00	1,862267E+07	1,935289E+08	5,434961E+08	9,746971E+08	1,305989E+09	1,305971E+09	9,746624E+08	5,434725E+08
1286	1,935217E+08	1,862284E+07	0,000000E+00	0,000000E+00	1,862723E+07	1,935361E+08	5,434825E+08	9,746674E+08	1,305956E+09	1,305930E+09	9,746138E+08	5,434463E+08
1287	1,935206E+08	1,862576E+07	0,000000E+00	0,000000E+00	1,862418E+07	1,935102E+08	5,434269E+08	9,745830E+08	1,305889E+09	1,305916E+09	9,746499E+08	5,434924E+08
1288	1,935562E+08	1,863708E+07	0,000000E+00	0,000000E+00	1,863583E+07	1,935511E+08	5,434789E+08	9,746151E+08	1,305872E+09	1,305863E+09	9,745875E+08	5,434450E+08
1289	1,935249E+08	1,863015E+07	0,000000E+00	0,000000E+00	1,863338E+07	1,935383E+08	5,434547E+08	9,745824E+08	1,305840E+09	1,305840E+09	9,745791E+08	5,434513E+08
1290	1,935378E+08	1,863361E+07	0,000000E+00	0,000000E+00	1,863096E+07	1,935257E+08	5,434395E+08	9,745710E+08	1,305837E+09	1,305848E+09	9,746036E+08	5,434768E+08
1291	1,935514E+08	1,863635E+07	0,000000E+00	0,000000E+00	1,863776E+07	1,935565E+08	5,434857E+08	9,746321E+08	1,305887E+09	1,305857E+09	9,745649E+08	5,434272E+08
1292	1,935160E+08	1,862665E+07	0,000000E+00	0,000000E+00	1,862732E+07	1,935211E+08	5,434395E+08	9,745943E+08	1,305899E+09	1,305919E+09	9,746361E+08	5,434728E+08
1293	1,935409E+08	1,863115E+07	0,000000E+00	0,000000E+00	1,862685E+07	1,935284E+08	5,434703E+08	9,746420E+08	1,305931E+09	1,305936E+09	9,746523E+08	5,434778E+08
1294	1,935306E+08	1,862672E+07	0,000000E+00	0,000000E+00	1,862916E+07	1,935419E+08	5,434904E+08	9,746799E+08	1,305978E+09	1,305961E+09	9,746392E+08	5,434499E+08
1295	1,935096E+08	1,861852E+07	0,000000E+00	0,000000E+00	1,861670E+07	1,935050E+08	5,434495E+08	9,746509E+08	1,305991E+09	1,306022E+09	9,747197E+08	5,435073E+08
1296	1,935384E+08	1,862457E+07	0,000000E+00	0,000000E+00	1,862205E+07	1,935320E+08	5,435061E+08	9,747234E+08	1,306033E+09	1,306023E+09	9,746968E+08	5,434784E+08
1297	1,935104E+08	1,861586E+07	0,000000E+00	0,000000E+00	1,861794E+07	1,935204E+08	5,434947E+08	9,747284E+08	1,306056E+09	1,306037E+09	9,746900E+08	5,434692E+08
1298	1,935092E+08	1,861429E+07	0,000000E+00	0,000000E+00	1,861218E+07	1,934972E+08	5,434575E+08	9,746899E+08	1,306041E+09	1,306058E+09	9,747365E+08	5,435091E+08
1299	1,935343E+08	1,862221E+07	0,000000E+00	0,000000E+00	1,862247E+07	1,935335E+08	5,435028E+08	9,747260E+08	1,306046E+09	1,306028E+09	9,746827E+08	5,434597E+08
1300	1,935011E+08	1,861388E+07	0,000000E+00	0,000000E+00	1,861690E+07	1,935142E+08	5,434673E+08	9,746717E+08	1,306004E+09	1,306019E+09	9,746953E+08	5,434817E+08
1301	1,935239E+08	1,862183E+07	0,000000E+00	0,000000E+00	1,862033E+07	1,935172E+08	5,434726E+08	9,746634E+08	1,305960E+09	1,305964E+09	9,746758E+08	5,434907E+08
1302	1,935351E+08	1,862617E+07	0,000000E+00	0,000000E+00	1,862967E+07	1,935453E+08	5,434951E+08	9,746739E+08	1,305947E+09	1,305908E+09	9,745938E+08	5,434339E+08
1303	1,935126E+08	1,862321E+07	0,000000E+00	0,000000E+00	1,862435E+07	1,935152E+08	5,434340E+08	9,745882E+08	1,305886E+09	1,305899E+09	9,746246E+08	5,434758E+08
1304	1,935509E+08	1,863704E+07	0,000000E+00	0,000000E+00	1,863430E+07	1,935396E+08	5,434611E+08	9,745908E+08	1,305844E+09	1,305837E+09	9,745782E+08	5,434532E+08
1305	1,935396E+08	1,863603E+07	0,000000E+00	0,000000E+00	1,863958E+07	1,935518E+08	5,434596E+08	9,745689E+08	1,305803E+09	1,305781E+09	9,745182E+08	5,434195E+08
1306	1,935327E+08	1,863741E+07	0,000000E+00	0,000000E+00	1,863725E+07	1,935294E+08	5,434089E+08	9,744912E+08	1,305740E+09	1,305768E+09	9,745554E+08	5,434667E+08
1307	1,935673E+08	1,864727E+07	0,000000E+00	0,000000E+00	1,864728E+07	1,935666E+08	5,434603E+08	9,745321E+08	1,305735E+09	1,305719E+09	9,744930E+08	5,434202E+08
1308	1,935370E+08	1,864028E+07	0,000000E+00	0,000000E+00	1,864431E+07	1,935526E+08	5,434352E+08	9,745075E+08	1,305731E+09	1,305728E+09	9,744986E+08	5,434275E+08
1309	1,935485E+08	1,864310E+07	0,000000E+00	0,000000E+00	1,864003E+07	1,935360E+08	5,434198E+08	9,744983E+08	1,305729E+09	1,305742E+09	9,745320E+08	5,434571E+08
1310	1,935633E+08	1,864603E+07	0,000000E+00	0,000000E+00	1,864649E+07	1,935646E+08	5,434599E+08	9,745491E+08	1,305768E+09	1,305743E+09	9,744927E+08	5,434089E+08
1311	1,935288E+08	1,863684E+07	0,000000E+00	0,000000E+00	1,863653E+07	1,935315E+08	5,434158E+08	9,745123E+08	1,305778E+09	1,305803E+09	9,745676E+08	5,434588E+08
1312	1,935531E+08	1,864062E+07	0,000000E+00	0,000000E+00	1,863638E+07	1,935404E+08	5,434506E+08	9,745619E+08	1,305809E+09	1,305819E+09	9,745813E+08	5,434628E+08
1313	1,935440E+08	1,863632E+07	0,000000E+00	0,000000E+00	1,863847E+07	1,935549E+08	5,434811E+08	9,746160E+08	1,305861E+09	1,305833E+09	9,745524E+08	5,434244E+08
1314	1,935184E+08	1,862731E+07	0,000000E+00	0,000000E+00	1,862643E+07	1,935173E+08	5,434331E+08	9,745832E+08	1,305881E+09	1,305902E+09	9,746350E+08	5,434810E+08
1315	1,935477E+08	1,863349E+07	0,000000E+00	0,000000E+00	1,863115E+07	1,935404E+08	5,434800E+08	9,746428E+08	1,305917E+09	1,305906E+09	9,746162E+08	5,434547E+08
1316	1,935218E+08	1,862583E+07	0,000000E+00	0,000000E+00	1,862818E+07	1,935317E+08	5,434667E+08	9,746415E+08	1,305941E+09	1,305932E+09	9,746184E+08	5,434480E+08
1317	1,935203E+08	1,862440E+07	0,000000E+00	0,000000E+00	1,862253E+07	1,935111E+08	5,434367E+08	9,746034E+08	1,305912E+09	1,305937E+09	9,746612E+08	5,434908E+08
1318	1,935473E+08	1,863259E+07	0,000000E+00	0,000000E+00	1,863294E+07	1,935472E+08	5,434826E+08	9,746366E+08	1,305902E+09	1,305884E+09	9,745930E+08	5,434386E+08
1319	1,935158E+08	1,862517E+07	0,000000E+00	0,000000E+00	1,862776E+07	1,935278E+08	5,434480E+08	9,745902E+08	1,305868E+09	1,305874E+09	9,746040E+08	5,434611E+08
1320	1,935390E+08	1,863339E+07	0,000000E+00	0,000000E+00	1,863138E+07	1,935293E+08	5,434482E+08	9,745758E+08	1,305829E+09	1,305831E+09	9,745863E+08	5,434681E+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	1,935516E+08	1,863860E+07	0,000000E+00	0,000000E+00	1,864095E+07	1,935583E+08	5,434741E+08	9,745854E+08	1,305807E+09	1,305767E+09	9,744971E+08	5,434043E+08
1322	1,935251E+08	1,863538E+07	0,000000E+00	0,000000E+00	1,863717E+07	1,935305E+08	5,434072E+08	9,744904E+08	1,305742E+09	1,305759E+09	9,745336E+08	5,434498E+08
1323	1,935637E+08	1,864864E+07	0,000000E+00	0,000000E+00	1,864675E+07	1,935549E+08	5,434325E+08	9,744852E+08	1,305689E+09	1,305690E+09	9,744863E+08	5,434305E+08
1324	1,935536E+08	1,864760E+07	0,000000E+00	0,000000E+00	1,865237E+07	1,935693E+08	5,434363E+08	9,744733E+08	1,305661E+09	1,305644E+09	9,744302E+08	5,433972E+08
1325	1,935457E+08	1,864807E+07	0,000000E+00	0,000000E+00	1,864837E+07	1,935446E+08	5,433924E+08	9,744105E+08	1,305605E+09	1,305628E+09	9,744655E+08	5,434450E+08
1326	1,935809E+08	1,865765E+07	0,000000E+00	0,000000E+00	1,865692E+07	1,935759E+08	5,434351E+08	9,744456E+08	1,305600E+09	1,305579E+09	9,743990E+08	5,433952E+08
1327	1,935508E+08	1,865138E+07	0,000000E+00	0,000000E+00	1,865386E+07	1,935613E+08	5,434089E+08	9,744238E+08	1,305606E+09	1,305602E+09	9,744182E+08	5,434073E+08
1328	1,935620E+08	1,865390E+07	0,000000E+00	0,000000E+00	1,864973E+07	1,935460E+08	5,433937E+08	9,744123E+08	1,305608E+09	1,305629E+09	9,744604E+08	5,434386E+08
1329	1,935768E+08	1,865673E+07	0,000000E+00	0,000000E+00	1,865644E+07	1,935786E+08	5,434462E+08	9,744726E+08	1,305643E+09	1,305620E+09	9,744134E+08	5,433855E+08
1330	1,935379E+08	1,864620E+07	0,000000E+00	0,000000E+00	1,864707E+07	1,935474E+08	5,434049E+08	9,744461E+08	1,305666E+09	1,305687E+09	9,744904E+08	5,434364E+08
1331	1,935617E+08	1,864880E+07	0,000000E+00	0,000000E+00	1,864553E+07	1,935516E+08	5,434342E+08	9,744959E+08	1,305702E+09	1,305706E+09	9,745054E+08	5,434424E+08
1332	1,935543E+08	1,864498E+07	0,000000E+00	0,000000E+00	1,864753E+07	1,935646E+08	5,434598E+08	9,745502E+08	1,305771E+09	1,305742E+09	9,744859E+08	5,434044E+08
1333	1,935281E+08	1,863591E+07	0,000000E+00	0,000000E+00	1,863486E+07	1,935260E+08	5,434121E+08	9,745111E+08	1,305775E+09	1,305801E+09	9,745701E+08	5,434642E+08
1334	1,935596E+08	1,864298E+07	0,000000E+00	0,000000E+00	1,863987E+07	1,935472E+08	5,434492E+08	9,745500E+08	1,305786E+09	1,305784E+09	9,745425E+08	5,434373E+08
1335	1,935357E+08	1,863656E+07	0,000000E+00	0,000000E+00	1,863838E+07	1,935441E+08	5,434419E+08	9,745474E+08	1,305798E+09	1,305796E+09	9,745404E+08	5,434324E+08
1336	1,935347E+08	1,863537E+07	0,000000E+00	0,000000E+00	1,863357E+07	1,935258E+08	5,434169E+08	9,745132E+08	1,305767E+09	1,305794E+09	9,745724E+08	5,434697E+08
1337	1,935623E+08	1,864403E+07	0,000000E+00	0,000000E+00	1,864409E+07	1,935630E+08	5,434706E+08	9,745576E+08	1,305760E+09	1,305729E+09	9,744872E+08	5,434074E+08
1338	1,935276E+08	1,863649E+07	0,000000E+00	0,000000E+00	1,863989E+07	1,935433E+08	5,434288E+08	9,745087E+08	1,305737E+09	1,305732E+09	9,745020E+08	5,434288E+08
1339	1,935504E+08	1,864458E+07	0,000000E+00	0,000000E+00	1,864297E+07	1,935412E+08	5,434196E+08	9,744814E+08	1,305692E+09	1,305694E+09	9,744939E+08	5,434414E+08
1340	1,935650E+08	1,865063E+07	0,000000E+00	0,000000E+00	1,865354E+07	1,935729E+08	5,434446E+08	9,744890E+08	1,305675E+09	1,305643E+09	9,744158E+08	5,433819E+08
1341	1,935382E+08	1,864705E+07	0,000000E+00	0,000000E+00	1,864955E+07	1,935476E+08	5,433863E+08	9,743953E+08	1,305594E+09	1,305620E+09	9,744497E+08	5,434311E+08
1342	1,935783E+08	1,865995E+07	0,000000E+00	0,000000E+00	1,865807E+07	1,935683E+08	5,434084E+08	9,743884E+08	1,305535E+09	1,305538E+09	9,743930E+08	5,434100E+08
1343	1,935697E+08	1,865938E+07	0,000000E+00	0,000000E+00	1,866347E+07	1,935827E+08	5,434143E+08	9,743859E+08	1,305519E+09	1,305498E+09	9,743397E+08	5,433775E+08
1344	1,935612E+08	1,865953E+07	0,000000E+00	0,000000E+00	1,865866E+07	1,935552E+08	5,433673E+08	9,743238E+08	1,305476E+09	1,305497E+09	9,743782E+08	5,434218E+08
1345	1,935957E+08	1,866913E+07	0,000000E+00	0,000000E+00	1,866683E+07	1,935869E+08	5,434153E+08	9,743640E+08	1,305471E+09	1,305447E+09	9,743097E+08	5,433677E+08
1346	1,935617E+08	1,866222E+07	0,000000E+00	0,000000E+00	1,866488E+07	1,935746E+08	5,433867E+08	9,743417E+08	1,305483E+09	1,305481E+09	9,743371E+08	5,433824E+08
1347	1,935713E+08	1,866336E+07	0,000000E+00	0,000000E+00	1,866008E+07	1,935596E+08	5,433733E+08	9,743301E+08	1,305483E+09	1,305509E+09	9,743845E+08	5,434183E+08
1348	1,935868E+08	1,866596E+07	0,000000E+00	0,000000E+00	1,866687E+07	1,935931E+08	5,434303E+08	9,744041E+08	1,305538E+09	1,305514E+09	9,743444E+08	5,433672E+08
1349	1,935473E+08	1,865455E+07	0,000000E+00	0,000000E+00	1,865599E+07	1,935593E+08	5,433924E+08	9,743853E+08	1,305564E+09	1,305579E+09	9,744204E+08	5,434191E+08
1350	1,935725E+08	1,865726E+07	0,000000E+00	0,000000E+00	1,865319E+07	1,935565E+08	5,434076E+08	9,744194E+08	1,305591E+09	1,305595E+09	9,744318E+08	5,434240E+08
1351	1,935673E+08	1,865480E+07	0,000000E+00	0,000000E+00	1,865586E+07	1,935708E+08	5,434311E+08	9,744663E+08	1,305651E+09	1,305629E+09	9,744189E+08	5,433898E+08
1352	1,935416E+08	1,864622E+07	0,000000E+00	0,000000E+00	1,864433E+07	1,935360E+08	5,433855E+08	9,744217E+08	1,305647E+09	1,305683E+09	9,744978E+08	5,434472E+08
1353	1,935734E+08	1,865373E+07	0,000000E+00	0,000000E+00	1,865034E+07	1,935626E+08	5,434350E+08	9,744662E+08	1,305645E+09	1,305643E+09	9,744531E+08	5,434128E+08
1354	1,935464E+08	1,864678E+07	0,000000E+00	0,000000E+00	1,865012E+07	1,935623E+08	5,434312E+08	9,744747E+08	1,305668E+09	1,305656E+09	9,744461E+08	5,434046E+08
1355	1,935446E+08	1,864507E+07	0,000000E+00	0,000000E+00	1,864463E+07	1,935406E+08	5,434009E+08	9,744393E+08	1,305644E+09	1,305661E+09	9,744795E+08	5,434422E+08
1356	1,935732E+08	1,865442E+07	0,000000E+00	0,000000E+00	1,865521E+07	1,935758E+08	5,434481E+08	9,744818E+08	1,305651E+09	1,305615E+09	9,744046E+08	5,433822E+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												
1357	1,935390E+08	1,864723E+07	0,000000E+00	0,000000E+00	1,865082E+07	1,935556E+08	5,434056E+08	9,744252E+08	1,305613E+09	1,305611E+09	9,744237E+08	5,434085E+08
1358	1,935642E+08	1,865598E+07	0,000000E+00	0,000000E+00	1,865382E+07	1,935504E+08	5,433843E+08	9,743746E+08	1,305541E+09	1,305554E+09	9,744091E+08	5,434228E+08
1359	1,935814E+08	1,866299E+07	0,000000E+00	0,000000E+00	1,866536E+07	1,935867E+08	5,434156E+08	9,743813E+08	1,305511E+09	1,305490E+09	9,743299E+08	5,433668E+08
1360	1,935557E+08	1,865962E+07	0,000000E+00	0,000000E+00	1,866167E+07	1,935628E+08	5,433633E+08	9,742964E+08	1,305434E+09	1,305462E+09	9,743535E+08	5,434104E+08
1361	1,935958E+08	1,867237E+07	0,000000E+00	0,000000E+00	1,866947E+07	1,935825E+08	5,433889E+08	9,742972E+08	1,305380E+09	1,305373E+09	9,742831E+08	5,433792E+08
1362	1,935832E+08	1,867142E+07	0,000000E+00	0,000000E+00	1,867535E+07	1,935966E+08	5,433912E+08	9,742988E+08	1,305382E+09	1,305353E+09	9,742365E+08	5,433449E+08
1363	1,935728E+08	1,867069E+07	0,000000E+00	0,000000E+00	1,866971E+07	1,935670E+08	5,433399E+08	9,742332E+08	1,305344E+09	1,305367E+09	9,742888E+08	5,433935E+08
1364	1,936062E+08	1,867999E+07	0,000000E+00	0,000000E+00	1,867825E+07	1,936009E+08	5,433914E+08	9,742830E+08	1,305358E+09	1,305337E+09	9,742359E+08	5,433458E+08
1365	1,935713E+08	1,867198E+07	0,000000E+00	0,000000E+00	1,867562E+07	1,935909E+08	5,433749E+08	9,742721E+08	1,305369E+09	1,305369E+09	9,742678E+08	5,433656E+08
1366	1,935815E+08	1,867211E+07	0,000000E+00	0,000000E+00	1,866920E+07	1,935701E+08	5,433552E+08	9,742588E+08	1,305368E+09	1,305392E+09	9,743122E+08	5,434026E+08
1367	1,935989E+08	1,867511E+07	0,000000E+00	0,000000E+00	1,867559E+07	1,936028E+08	5,434115E+08	9,743349E+08	1,305427E+09	1,305404E+09	9,742794E+08	5,433551E+08
1368	1,935607E+08	1,866398E+07	0,000000E+00	0,000000E+00	1,866430E+07	1,935670E+08	5,433696E+08	9,743109E+08	1,305455E+09	1,305474E+09	9,743529E+08	5,434032E+08
1369	1,935858E+08	1,866708E+07	0,000000E+00	0,000000E+00	1,866181E+07	1,935651E+08	5,433847E+08	9,743379E+08	1,305468E+09	1,305474E+09	9,743538E+08	5,434022E+08
1370	1,935783E+08	1,866477E+07	0,000000E+00	0,000000E+00	1,866622E+07	1,935836E+08	5,434083E+08	9,743822E+08	1,305525E+09	1,305505E+09	9,743368E+08	5,433662E+08
1371	1,935515E+08	1,865545E+07	0,000000E+00	0,000000E+00	1,865488E+07	1,935509E+08	5,433670E+08	9,743385E+08	1,305514E+09	1,305550E+09	9,744119E+08	5,434233E+08
1372	1,935830E+08	1,866322E+07	0,000000E+00	0,000000E+00	1,866139E+07	1,935782E+08	5,434214E+08	9,743998E+08	1,305532E+09	1,305518E+09	9,743677E+08	5,433886E+08
1373	1,935563E+08	1,865611E+07	0,000000E+00	0,000000E+00	1,866042E+07	1,935766E+08	5,434187E+08	9,744099E+08	1,305555E+09	1,305530E+09	9,743593E+08	5,433801E+08
1374	1,935557E+08	1,865506E+07	0,000000E+00	0,000000E+00	1,865410E+07	1,935480E+08	5,433720E+08	9,743531E+08	1,305519E+09	1,305534E+09	9,743942E+08	5,434196E+08
1375	1,935875E+08	1,866597E+07	0,000000E+00	0,000000E+00	1,866563E+07	1,935853E+08	5,434165E+08	9,743835E+08	1,305510E+09	1,305487E+09	9,743301E+08	5,433670E+08
1376	1,935559E+08	1,865985E+07	0,000000E+00	0,000000E+00	1,866238E+07	1,935679E+08	5,433744E+08	9,743199E+08	1,305462E+09	1,305473E+09	9,743415E+08	5,433918E+08
1377	1,935820E+08	1,866890E+07	0,000000E+00	0,000000E+00	1,866602E+07	1,935665E+08	5,433617E+08	9,742721E+08	1,305376E+09	1,305392E+09	9,743096E+08	5,433993E+08
1378	1,935968E+08	1,867540E+07	0,000000E+00	0,000000E+00	1,867825E+07	1,936040E+08	5,433956E+08	9,742899E+08	1,305359E+09	1,305330E+09	9,742232E+08	5,433382E+08
1379	1,935694E+08	1,867114E+07	0,000000E+00	0,000000E+00	1,867380E+07	1,935779E+08	5,433414E+08	9,742085E+08	1,305293E+09	1,305311E+09	9,742494E+08	5,433799E+08
1380	1,936077E+08	1,868366E+07	0,000000E+00	0,000000E+00	1,868119E+07	1,935960E+08	5,433656E+08	9,742176E+08	1,305261E+09	1,305246E+09	9,741923E+08	5,433508E+08
1381	1,935937E+08	1,868212E+07	0,000000E+00	0,000000E+00	1,868650E+07	1,936106E+08	5,433711E+08	9,742192E+08	1,305261E+09	1,305232E+09	9,741566E+08	5,433217E+08
1382	1,935835E+08	1,868098E+07	0,000000E+00	0,000000E+00	1,868002E+07	1,935778E+08	5,433123E+08	9,741415E+08	1,305213E+09	1,305244E+09	9,742121E+08	5,433748E+08
1383	1,936184E+08	1,869030E+07	0,000000E+00	0,000000E+00	1,868870E+07	1,936149E+08	5,433714E+08	9,741970E+08	1,305223E+09	1,305214E+09	9,741682E+08	5,433346E+08
1384	1,935859E+08	1,868232E+07	0,000000E+00	0,000000E+00	1,868545E+07	1,936031E+08	5,433575E+08	9,741980E+08	1,305249E+09	1,305247E+09	9,741932E+08	5,433508E+08
1385	1,935959E+08	1,868199E+07	0,000000E+00	0,000000E+00	1,867815E+07	1,935801E+08	5,433365E+08	9,741852E+08	1,305248E+09	1,305263E+09	9,742261E+08	5,433799E+08
1386	1,936107E+08	1,868490E+07	0,000000E+00	0,000000E+00	1,868481E+07	1,936114E+08	5,433872E+08	9,742588E+08	1,305315E+09	1,305288E+09	9,741970E+08	5,433305E+08
1387	1,935714E+08	1,867326E+07	0,000000E+00	0,000000E+00	1,867361E+07	1,935766E+08	5,433440E+08	9,742287E+08	1,305336E+09	1,305358E+09	9,742756E+08	5,433800E+08
1388	1,935953E+08	1,867644E+07	0,000000E+00	0,000000E+00	1,867204E+07	1,935779E+08	5,433630E+08	9,742621E+08	1,305357E+09	1,305363E+09	9,742806E+08	5,433811E+08
1389	1,935871E+08	1,867359E+07	0,000000E+00	0,000000E+00	1,867643E+07	1,936002E+08	5,433988E+08	9,743165E+08	1,305411E+09	1,305387E+09	9,742614E+08	5,433466E+08
1390	1,935612E+08	1,866414E+07	0,000000E+00	0,000000E+00	1,866414E+07	1,935622E+08	5,433495E+08	9,742680E+08	1,305399E+09	1,305427E+09	9,743302E+08	5,434018E+08
1391	1,935941E+08	1,867269E+07	0,000000E+00	0,000000E+00	1,867076E+07	1,935888E+08	5,434011E+08	9,743250E+08	1,305416E+09	1,305402E+09	9,742948E+08	5,433724E+08
1392	1,935711E+08	1,866703E+07	0,000000E+00	0,000000E+00	1,866992E+07	1,935854E+08	5,433930E+08	9,743277E+08	1,305436E+09	1,305414E+09	9,742836E+08	5,433623E+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												
1393	1,935715E+08	1,866687E+07	0,000000E+00	0,000000E+00	1,866459E+07	1,935581E+08	5,433419E+08	9,742539E+08	1,305373E+09	1,305394E+09	9,743066E+08	5,433979E+08
1394	1,936026E+08	1,867827E+07	0,000000E+00	0,000000E+00	1,867785E+07	1,935996E+08	5,433868E+08	9,742783E+08	1,305356E+09	1,305338E+09	9,742349E+08	5,433435E+08
1395	1,935707E+08	1,867175E+07	0,000000E+00	0,000000E+00	1,867543E+07	1,935857E+08	5,433509E+08	9,742166E+08	1,305298E+09	1,305311E+09	9,742391E+08	5,433657E+08
1396	1,935957E+08	1,868070E+07	0,000000E+00	0,000000E+00	1,867912E+07	1,935841E+08	5,433420E+08	9,741871E+08	1,305235E+09	1,305237E+09	9,742052E+08	5,433702E+08
1397	1,936089E+08	1,868644E+07	0,000000E+00	0,000000E+00	1,869034E+07	1,936207E+08	5,433789E+08	9,742104E+08	1,305226E+09	1,305183E+09	9,741208E+08	5,433083E+08
1398	1,935812E+08	1,868224E+07	0,000000E+00	0,000000E+00	1,868465E+07	1,935881E+08	5,433124E+08	9,741162E+08	1,305157E+09	1,305172E+09	9,741536E+08	5,433514E+08
1399	1,936198E+08	1,869505E+07	0,000000E+00	0,000000E+00	1,869227E+07	1,936085E+08	5,433385E+08	9,741230E+08	1,305122E+09	1,305119E+09	9,741159E+08	5,433326E+08
1400	1,936088E+08	1,869412E+07	0,000000E+00	0,000000E+00	1,869769E+07	1,936245E+08	5,433483E+08	9,741299E+08	1,305128E+09	1,305106E+09	9,740810E+08	5,433057E+08
1401	1,935986E+08	1,869228E+07	0,000000E+00	0,000000E+00	1,869092E+07	1,935933E+08	5,432959E+08	9,740584E+08	1,305077E+09	1,305107E+09	9,741278E+08	5,433553E+08
1402	1,936317E+08	1,870078E+07	0,000000E+00	0,000000E+00	1,869929E+07	1,936287E+08	5,433547E+08	9,741245E+08	1,305105E+09	1,305088E+09	9,740829E+08	5,433133E+08
1403	1,935986E+08	1,869186E+07	0,000000E+00	0,000000E+00	1,869505E+07	1,936135E+08	5,433358E+08	9,741234E+08	1,305137E+09	1,305131E+09	9,741133E+08	5,433282E+08
1404	1,936066E+08	1,869120E+07	0,000000E+00	0,000000E+00	1,868735E+07	1,935888E+08	5,433125E+08	9,741164E+08	1,305151E+09	1,305161E+09	9,741545E+08	5,433582E+08
1405	1,936198E+08	1,869360E+07	0,000000E+00	0,000000E+00	1,869382E+07	1,936215E+08	5,433653E+08	9,741845E+08	1,305206E+09	1,305182E+09	9,741275E+08	5,433107E+08
1406	1,935803E+08	1,868181E+07	0,000000E+00	0,000000E+00	1,868239E+07	1,935861E+08	5,433187E+08	9,741435E+08	1,305212E+09	1,305240E+09	9,742017E+08	5,433607E+08
1407	1,936052E+08	1,868532E+07	0,000000E+00	0,000000E+00	1,868159E+07	1,935921E+08	5,433479E+08	9,741839E+08	1,305229E+09	1,305243E+09	9,742118E+08	5,433672E+08
1408	1,936007E+08	1,868346E+07	0,000000E+00	0,000000E+00	1,868568E+07	1,936122E+08	5,433836E+08	9,742470E+08	1,305295E+09	1,305266E+09	9,741829E+08	5,433290E+08
1409	1,935755E+08	1,867446E+07	0,000000E+00	0,000000E+00	1,867345E+07	1,935729E+08	5,433290E+08	9,741909E+08	1,305277E+09	1,305297E+09	9,742406E+08	5,433773E+08
1410	1,936072E+08	1,868361E+07	0,000000E+00	0,000000E+00	1,868091E+07	1,935984E+08	5,433734E+08	9,742383E+08	1,305292E+09	1,305276E+09	9,742063E+08	5,433473E+08
1411	1,935845E+08	1,867812E+07	0,000000E+00	0,000000E+00	1,868110E+07	1,935973E+08	5,433635E+08	9,742304E+08	1,305298E+09	1,305282E+09	9,741971E+08	5,433382E+08
1412	1,935839E+08	1,867828E+07	0,000000E+00	0,000000E+00	1,867715E+07	1,935744E+08	5,433183E+08	9,741643E+08	1,305237E+09	1,305256E+09	9,742182E+08	5,433746E+08
1413	1,936143E+08	1,868896E+07	0,000000E+00	0,000000E+00	1,869026E+07	1,936185E+08	5,433726E+08	9,741957E+08	1,305215E+09	1,305192E+09	9,741410E+08	5,433192E+08
1414	1,935830E+08	1,868240E+07	0,000000E+00	0,000000E+00	1,868699E+07	1,936002E+08	5,433296E+08	9,741295E+08	1,305157E+09	1,305161E+09	9,741389E+08	5,433387E+08
1415	1,936088E+08	1,869185E+07	0,000000E+00	0,000000E+00	1,869042E+07	1,935984E+08	5,433199E+08	9,740971E+08	1,305096E+09	1,305101E+09	9,741175E+08	5,433482E+08
1416	1,936248E+08	1,869868E+07	0,000000E+00	0,000000E+00	1,870109E+07	1,936318E+08	5,433524E+08	9,741200E+08	1,305092E+09	1,305052E+09	9,740354E+08	5,432870E+08
1417	1,935974E+08	1,869476E+07	0,000000E+00	0,000000E+00	1,869590E+07	1,936004E+08	5,432832E+08	9,740162E+08	1,305011E+09	1,305030E+09	9,740628E+08	5,433279E+08
1418	1,936340E+08	1,870709E+07	0,000000E+00	0,000000E+00	1,870407E+07	1,936230E+08	5,433126E+08	9,740259E+08	1,304979E+09	1,304979E+09	9,740255E+08	5,433107E+08
1419	1,936232E+08	1,870544E+07	0,000000E+00	0,000000E+00	1,870956E+07	1,936403E+08	5,433286E+08	9,740417E+08	1,304987E+09	1,304968E+09	9,739934E+08	5,432840E+08
1420	1,936115E+08	1,870282E+07	0,000000E+00	0,000000E+00	1,870207E+07	1,936068E+08	5,432777E+08	9,739883E+08	1,304961E+09	1,304979E+09	9,740406E+08	5,433312E+08
1421	1,936423E+08	1,871017E+07	0,000000E+00	0,000000E+00	1,870898E+07	1,936400E+08	5,433359E+08	9,740541E+08	1,304995E+09	1,304971E+09	9,740016E+08	5,432897E+08
1422	1,936090E+08	1,870115E+07	0,000000E+00	0,000000E+00	1,870372E+07	1,936201E+08	5,433060E+08	9,740379E+08	1,305018E+09	1,305017E+09	9,740366E+08	5,433054E+08
1423	1,936169E+08	1,870049E+07	0,000000E+00	0,000000E+00	1,869646E+07	1,935992E+08	5,432866E+08	9,740270E+08	1,305025E+09	1,305053E+09	9,740922E+08	5,433435E+08
1424	1,936328E+08	1,870366E+07	0,000000E+00	0,000000E+00	1,870303E+07	1,936336E+08	5,433466E+08	9,741058E+08	1,305086E+09	1,305068E+09	9,740601E+08	5,432967E+08
1425	1,935936E+08	1,869154E+07	0,000000E+00	0,000000E+00	1,869191E+07	1,936003E+08	5,433053E+08	9,740707E+08	1,305088E+09	1,305111E+09	9,741191E+08	5,433396E+08
1426	1,936163E+08	1,869477E+07	0,000000E+00	0,000000E+00	1,869135E+07	1,936054E+08	5,433341E+08	9,741189E+08	1,305120E+09	1,305122E+09	9,741254E+08	5,433430E+08
1427	1,936123E+08	1,869290E+07	0,000000E+00	0,000000E+00	1,869541E+07	1,936238E+08	5,433652E+08	9,741752E+08	1,305185E+09	1,305151E+09	9,741021E+08	5,433044E+08
1428	1,935860E+08	1,868426E+07	0,000000E+00	0,000000E+00	1,868374E+07	1,935836E+08	5,433069E+08	9,741199E+08	1,305171E+09	1,305185E+09	9,741627E+08	5,433532E+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												
1429	1,936168E+08	1,869330E+07	0,000000E+00	0,000000E+00	1,869157E+07	1,936113E+08	5,433502E+08	9,741545E+08	1,305168E+09	1,305156E+09	9,741280E+08	5,433262E+08
1430	1,935959E+08	1,868828E+07	0,000000E+00	0,000000E+00	1,869202E+07	1,936102E+08	5,433357E+08	9,741307E+08	1,305151E+09	1,305143E+09	9,741106E+08	5,433167E+08
1431	1,935968E+08	1,868899E+07	0,000000E+00	0,000000E+00	1,868897E+07	1,935914E+08	5,432990E+08	9,740686E+08	1,305083E+09	1,305112E+09	9,741331E+08	5,433569E+08
1432	1,936312E+08	1,870086E+07	0,000000E+00	0,000000E+00	1,870126E+07	1,936316E+08	5,433513E+08	9,741088E+08	1,305073E+09	1,305044E+09	9,740452E+08	5,432970E+08
1433	1,935999E+08	1,869480E+07	0,000000E+00	0,000000E+00	1,869818E+07	1,936126E+08	5,433032E+08	9,740341E+08	1,305009E+09	1,305007E+09	9,740335E+08	5,433092E+08
1434	1,936239E+08	1,870460E+07	0,000000E+00	0,000000E+00	1,870203E+07	1,936104E+08	5,432905E+08	9,739987E+08	1,304953E+09	1,304957E+09	9,740166E+08	5,433188E+08
1435	1,936396E+08	1,871123E+07	0,000000E+00	0,000000E+00	1,871336E+07	1,936458E+08	5,433232E+08	9,740169E+08	1,304943E+09	1,304911E+09	9,739444E+08	5,432620E+08
1436	1,936111E+08	1,870701E+07	0,000000E+00	0,000000E+00	1,870875E+07	1,936173E+08	5,432635E+08	9,739323E+08	1,304877E+09	1,304894E+09	9,739752E+08	5,433044E+08
1437	1,936455E+08	1,871761E+07	0,000000E+00	0,000000E+00	1,871594E+07	1,936404E+08	5,432992E+08	9,739509E+08	1,304853E+09	1,304848E+09	9,739398E+08	5,432885E+08
1438	1,936348E+08	1,871537E+07	0,000000E+00	0,000000E+00	1,871984E+07	1,936514E+08	5,433058E+08	9,739614E+08	1,304864E+09	1,304842E+09	9,739098E+08	5,432617E+08
1439	1,936231E+08	1,871249E+07	0,000000E+00	0,000000E+00	1,871173E+07	1,936182E+08	5,432557E+08	9,739055E+08	1,304840E+09	1,304870E+09	9,739735E+08	5,433150E+08
1440	1,936563E+08	1,872045E+07	0,000000E+00	0,000000E+00	1,871745E+07	1,936466E+08	5,433087E+08	9,739711E+08	1,304878E+09	1,304862E+09	9,739345E+08	5,432742E+08
1441	1,936228E+08	1,871144E+07	0,000000E+00	0,000000E+00	1,871295E+07	1,936301E+08	5,432790E+08	9,739470E+08	1,304886E+09	1,304892E+09	9,739584E+08	5,432854E+08
1442	1,936285E+08	1,871038E+07	0,000000E+00	0,000000E+00	1,870635E+07	1,936130E+08	5,432682E+08	9,739448E+08	1,304896E+09	1,304925E+09	9,740083E+08	5,433216E+08
1443	1,936440E+08	1,871298E+07	0,000000E+00	0,000000E+00	1,871318E+07	1,936484E+08	5,433344E+08	9,740347E+08	1,304964E+09	1,304942E+09	9,739778E+08	5,432743E+08
1444	1,936039E+08	1,870061E+07	0,000000E+00	0,000000E+00	1,870188E+07	1,936135E+08	5,432951E+08	9,740185E+08	1,304991E+09	1,304995E+09	9,740350E+08	5,433132E+08
1445	1,936240E+08	1,870313E+07	0,000000E+00	0,000000E+00	1,870067E+07	1,936167E+08	5,433188E+08	9,740576E+08	1,305023E+09	1,305017E+09	9,740479E+08	5,433178E+08
1446	1,936209E+08	1,870190E+07	0,000000E+00	0,000000E+00	1,870433E+07	1,936309E+08	5,433366E+08	9,740914E+08	1,305069E+09	1,305041E+09	9,740283E+08	5,432823E+08
1447	1,935966E+08	1,869411E+07	0,000000E+00	0,000000E+00	1,869412E+07	1,935964E+08	5,432812E+08	9,740241E+08	1,305036E+09	1,305071E+09	9,740977E+08	5,433393E+08
1448	1,936321E+08	1,870456E+07	0,000000E+00	0,000000E+00	1,870191E+07	1,936235E+08	5,433270E+08	9,740633E+08	1,305029E+09	1,305026E+09	9,740520E+08	5,433122E+08
1449	1,936128E+08	1,869990E+07	0,000000E+00	0,000000E+00	1,870319E+07	1,936249E+08	5,433141E+08	9,740379E+08	1,305000E+09	1,304990E+09	9,740140E+08	5,432941E+08
1450	1,936126E+08	1,870096E+07	0,000000E+00	0,000000E+00	1,870041E+07	1,936053E+08	5,432769E+08	9,739801E+08	1,304942E+09	1,304961E+09	9,740284E+08	5,433290E+08
1451	1,936466E+08	1,871295E+07	0,000000E+00	0,000000E+00	1,871285E+07	1,936444E+08	5,433261E+08	9,740153E+08	1,304932E+09	1,304901E+09	9,739474E+08	5,432688E+08
1452	1,936139E+08	1,870719E+07	0,000000E+00	0,000000E+00	1,871047E+07	1,936256E+08	5,432779E+08	9,739474E+08	1,304874E+09	1,304867E+09	9,739370E+08	5,432788E+08
1453	1,936345E+08	1,871600E+07	0,000000E+00	0,000000E+00	1,871453E+07	1,936266E+08	5,432670E+08	9,739054E+08	1,304813E+09	1,304820E+09	9,739262E+08	5,432923E+08
1454	1,936507E+08	1,872245E+07	0,000000E+00	0,000000E+00	1,872555E+07	1,936614E+08	5,432986E+08	9,739170E+08	1,304792E+09	1,304768E+09	9,738553E+08	5,432394E+08
1455	1,936239E+08	1,871805E+07	0,000000E+00	0,000000E+00	1,872096E+07	1,936349E+08	5,432456E+08	9,738409E+08	1,304732E+09	1,304758E+09	9,738954E+08	5,432877E+08
1456	1,936617E+08	1,872898E+07	0,000000E+00	0,000000E+00	1,872607E+07	1,936509E+08	5,432770E+08	9,738708E+08	1,304727E+09	1,304718E+09	9,738569E+08	5,432706E+08
1457	1,936510E+08	1,872671E+07	0,000000E+00	0,000000E+00	1,872967E+07	1,936604E+08	5,432766E+08	9,738694E+08	1,304730E+09	1,304707E+09	9,738212E+08	5,432383E+08
1458	1,936369E+08	1,872354E+07	0,000000E+00	0,000000E+00	1,872155E+07	1,936279E+08	5,432282E+08	9,738157E+08	1,304710E+09	1,304741E+09	9,738868E+08	5,432908E+08
1459	1,936684E+08	1,873079E+07	0,000000E+00	0,000000E+00	1,872776E+07	1,936591E+08	5,432858E+08	9,738832E+08	1,304746E+09	1,304738E+09	9,738567E+08	5,432528E+08
1460	1,936332E+08	1,872116E+07	0,000000E+00	0,000000E+00	1,872365E+07	1,936458E+08	5,432694E+08	9,738855E+08	1,304774E+09	1,304771E+09	9,738780E+08	5,432611E+08
1461	1,936355E+08	1,871841E+07	0,000000E+00	0,000000E+00	1,871633E+07	1,936293E+08	5,432634E+08	9,738935E+08	1,304799E+09	1,304816E+09	9,739311E+08	5,432975E+08
1462	1,936512E+08	1,872096E+07	0,000000E+00	0,000000E+00	1,872186E+07	1,936583E+08	5,433179E+08	9,739727E+08	1,304868E+09	1,304840E+09	9,739059E+08	5,432530E+08
1463	1,936133E+08	1,870908E+07	0,000000E+00	0,000000E+00	1,871057E+07	1,936235E+08	5,432758E+08	9,739468E+08	1,304891E+09	1,304906E+09	9,739786E+08	5,432990E+08
1464	1,936371E+08	1,871294E+07	0,000000E+00	0,000000E+00	1,870869E+07	1,936216E+08	5,432904E+08	9,739776E+08	1,304913E+09	1,304916E+09	9,739881E+08	5,433061E+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	1,936357E+08	1,871250E+07	0,000000E+00	0,000000E+00	1,871372E+07	1,936395E+08	5,433043E+08	9,739911E+08	1,304928E+09	1,304911E+09	9,739518E+08	5,432663E+08
1466	1,936115E+08	1,870534E+07	0,000000E+00	0,000000E+00	1,870505E+07	1,936107E+08	5,432587E+08	9,739281E+08	1,304886E+09	1,304924E+09	9,740057E+08	5,433188E+08
1467	1,936475E+08	1,871588E+07	0,000000E+00	0,000000E+00	1,871350E+07	1,936380E+08	5,433059E+08	9,739706E+08	1,304877E+09	1,304871E+09	9,739541E+08	5,432878E+08
1468	1,936272E+08	1,871153E+07	0,000000E+00	0,000000E+00	1,871518E+07	1,936397E+08	5,432970E+08	9,739624E+08	1,304866E+09	1,304838E+09	9,739072E+08	5,432614E+08
1469	1,936235E+08	1,871210E+07	0,000000E+00	0,000000E+00	1,871234E+07	1,936202E+08	5,432565E+08	9,738972E+08	1,304811E+09	1,304821E+09	9,739269E+08	5,432946E+08
1470	1,936562E+08	1,872418E+07	0,000000E+00	0,000000E+00	1,872437E+07	1,936560E+08	5,432957E+08	9,739155E+08	1,304787E+09	1,304761E+09	9,738548E+08	5,432407E+08
1471	1,936257E+08	1,871888E+07	0,000000E+00	0,000000E+00	1,872318E+07	1,936432E+08	5,432549E+08	9,738471E+08	1,304727E+09	1,304736E+09	9,738594E+08	5,432605E+08
1472	1,936498E+08	1,872811E+07	0,000000E+00	0,000000E+00	1,872612E+07	1,936411E+08	5,432464E+08	9,738163E+08	1,304672E+09	1,304684E+09	9,738458E+08	5,432767E+08
1473	1,936671E+08	1,873430E+07	0,000000E+00	0,000000E+00	1,873707E+07	1,936755E+08	5,432759E+08	9,738261E+08	1,304647E+09	1,304620E+09	9,737637E+08	5,432193E+08
1474	1,936401E+08	1,872996E+07	0,000000E+00	0,000000E+00	1,873208E+07	1,936480E+08	5,432236E+08	9,737553E+08	1,304599E+09	1,304619E+09	9,738009E+08	5,432644E+08
1475	1,936766E+08	1,874021E+07	0,000000E+00	0,000000E+00	1,873652E+07	1,936607E+08	5,432495E+08	9,737807E+08	1,304595E+09	1,304589E+09	9,737724E+08	5,432475E+08
1476	1,936640E+08	1,873770E+07	0,000000E+00	0,000000E+00	1,874029E+07	1,936712E+08	5,432533E+08	9,737912E+08	1,304606E+09	1,304580E+09	9,737359E+08	5,432121E+08
1477	1,936456E+08	1,873301E+07	0,000000E+00	0,000000E+00	1,873218E+07	1,936427E+08	5,432102E+08	9,737376E+08	1,304589E+09	1,304620E+09	9,738055E+08	5,432652E+08
1478	1,936754E+08	1,873950E+07	0,000000E+00	0,000000E+00	1,873765E+07	1,936724E+08	5,432690E+08	9,738061E+08	1,304622E+09	1,304615E+09	9,737792E+08	5,432320E+08
1479	1,936425E+08	1,872981E+07	0,000000E+00	0,000000E+00	1,873352E+07	1,936609E+08	5,432589E+08	9,738195E+08	1,304665E+09	1,304664E+09	9,738114E+08	5,432450E+08
1480	1,936476E+08	1,872759E+07	0,000000E+00	0,000000E+00	1,872430E+07	1,936369E+08	5,432458E+08	9,738328E+08	1,304705E+09	1,304716E+09	9,738650E+08	5,432822E+08
1481	1,936644E+08	1,873072E+07	0,000000E+00	0,000000E+00	1,873008E+07	1,936642E+08	5,432887E+08	9,738901E+08	1,304753E+09	1,304729E+09	9,738345E+08	5,432354E+08
1482	1,936270E+08	1,871962E+07	0,000000E+00	0,000000E+00	1,871967E+07	1,936317E+08	5,432467E+08	9,738573E+08	1,304764E+09	1,304786E+09	9,739023E+08	5,432810E+08
1483	1,936508E+08	1,872364E+07	0,000000E+00	0,000000E+00	1,871913E+07	1,936327E+08	5,432631E+08	9,738821E+08	1,304774E+09	1,304787E+09	9,739117E+08	5,432891E+08
1484	1,936493E+08	1,872325E+07	0,000000E+00	0,000000E+00	1,872510E+07	1,936549E+08	5,432896E+08	9,739150E+08	1,304791E+09	1,304767E+09	9,738590E+08	5,432410E+08
1485	1,936215E+08	1,871509E+07	0,000000E+00	0,000000E+00	1,871680E+07	1,936287E+08	5,432479E+08	9,738579E+08	1,304759E+09	1,304783E+09	9,739076E+08	5,432883E+08
1486	1,936563E+08	1,872576E+07	0,000000E+00	0,000000E+00	1,872445E+07	1,936515E+08	5,432860E+08	9,738895E+08	1,304747E+09	1,304734E+09	9,738596E+08	5,432594E+08
1487	1,936382E+08	1,872208E+07	0,000000E+00	0,000000E+00	1,872662E+07	1,936544E+08	5,432755E+08	9,738744E+08	1,304737E+09	1,304716E+09	9,738265E+08	5,432385E+08
1488	1,936373E+08	1,872390E+07	0,000000E+00	0,000000E+00	1,872306E+07	1,936304E+08	5,432286E+08	9,738069E+08	1,304680E+09	1,304695E+09	9,738471E+08	5,432754E+08
1489	1,936711E+08	1,873628E+07	0,000000E+00	0,000000E+00	1,873602E+07	1,936690E+08	5,432640E+08	9,738071E+08	1,304630E+09	1,304613E+09	9,737655E+08	5,432214E+08
1490	1,936424E+08	1,873159E+07	0,000000E+00	0,000000E+00	1,873562E+07	1,936595E+08	5,432329E+08	9,737494E+08	1,304571E+09	1,304579E+09	9,737617E+08	5,432398E+08
1491	1,936666E+08	1,874038E+07	0,000000E+00	0,000000E+00	1,873833E+07	1,936552E+08	5,432232E+08	9,737240E+08	1,304523E+09	1,304532E+09	9,737499E+08	5,432547E+08
1492	1,936830E+08	1,874637E+07	0,000000E+00	0,000000E+00	1,874869E+07	1,936881E+08	5,432552E+08	9,737475E+08	1,304514E+09	1,304474E+09	9,736625E+08	5,431897E+08
1493	1,936518E+08	1,874096E+07	0,000000E+00	0,000000E+00	1,874349E+07	1,936614E+08	5,432010E+08	9,736716E+08	1,304471E+09	1,304486E+09	9,737074E+08	5,432336E+08
1494	1,936857E+08	1,875050E+07	0,000000E+00	0,000000E+00	1,874700E+07	1,936714E+08	5,432199E+08	9,736854E+08	1,304458E+09	1,304461E+09	9,736897E+08	5,432235E+08
1495	1,936742E+08	1,874777E+07	0,000000E+00	0,000000E+00	1,875136E+07	1,936875E+08	5,432345E+08	9,737047E+08	1,304480E+09	1,304467E+09	9,736678E+08	5,431959E+08
1496	1,936581E+08	1,874292E+07	0,000000E+00	0,000000E+00	1,874155E+07	1,936551E+08	5,431966E+08	9,736718E+08	1,304480E+09	1,304509E+09	9,737370E+08	5,432504E+08
1497	1,936876E+08	1,874883E+07	0,000000E+00	0,000000E+00	1,874658E+07	1,936827E+08	5,432500E+08	9,737359E+08	1,304511E+09	1,304499E+09	9,737054E+08	5,432159E+08
1498	1,936563E+08	1,873974E+07	0,000000E+00	0,000000E+00	1,874214E+07	1,936705E+08	5,432408E+08	9,737533E+08	1,304563E+09	1,304556E+09	9,737374E+08	5,432274E+08
1499	1,936605E+08	1,873721E+07	0,000000E+00	0,000000E+00	1,873297E+07	1,936435E+08	5,432191E+08	9,737537E+08	1,304593E+09	1,304610E+09	9,737976E+08	5,432652E+08
1500	1,936765E+08	1,874059E+07	0,000000E+00	0,000000E+00	1,873950E+07	1,936729E+08	5,432649E+08	9,738135E+08	1,304635E+09	1,304611E+09	9,737576E+08	5,432138E+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	1,936362E+08	1,872879E+07	0,000000E+00	0,000000E+00	1,873043E+07	1,936473E+08	5,432287E+08	9,737755E+08	1,304636E+09	1,304658E+09	9,738188E+08	5,432563E+08
1502	1,936587E+08	1,873254E+07	0,000000E+00	0,000000E+00	1,872975E+07	1,936470E+08	5,432434E+08	9,737963E+08	1,304634E+09	1,304648E+09	9,738242E+08	5,432666E+08
1503	1,936601E+08	1,873269E+07	0,000000E+00	0,000000E+00	1,873615E+07	1,936713E+08	5,432754E+08	9,738388E+08	1,304667E+09	1,304640E+09	9,737752E+08	5,432200E+08
1504	1,936351E+08	1,872568E+07	0,000000E+00	0,000000E+00	1,872651E+07	1,936387E+08	5,432271E+08	9,737845E+08	1,304643E+09	1,304657E+09	9,738208E+08	5,432647E+08
1505	1,936696E+08	1,873696E+07	0,000000E+00	0,000000E+00	1,873464E+07	1,936603E+08	5,432539E+08	9,737934E+08	1,304610E+09	1,304598E+09	9,737693E+08	5,432353E+08
1506	1,936535E+08	1,873456E+07	0,000000E+00	0,000000E+00	1,873798E+07	1,936672E+08	5,432474E+08	9,737758E+08	1,304591E+09	1,304573E+09	9,737349E+08	5,432161E+08
1507	1,936527E+08	1,873648E+07	0,000000E+00	0,000000E+00	1,873552E+07	1,936452E+08	5,432019E+08	9,737050E+08	1,304527E+09	1,304550E+09	9,737593E+08	5,432559E+08
1508	1,936868E+08	1,874861E+07	0,000000E+00	0,000000E+00	1,874871E+07	1,936859E+08	5,432477E+08	9,737241E+08	1,304484E+09	1,304459E+09	9,736661E+08	5,431966E+08
1509	1,936559E+08	1,874317E+07	0,000000E+00	0,000000E+00	1,874853E+07	1,936775E+08	5,432162E+08	9,736689E+08	1,304437E+09	1,304434E+09	9,736618E+08	5,432108E+08
1510	1,936782E+08	1,875137E+07	0,000000E+00	0,000000E+00	1,874978E+07	1,936674E+08	5,431960E+08	9,736319E+08	1,304386E+09	1,304395E+09	9,736581E+08	5,432293E+08
1511	1,936958E+08	1,875742E+07	0,000000E+00	0,000000E+00	1,875999E+07	1,937010E+08	5,432283E+08	9,736537E+08	1,304382E+09	1,304354E+09	9,735848E+08	5,431694E+08
1512	1,936659E+08	1,875231E+07	0,000000E+00	0,000000E+00	1,875362E+07	1,936712E+08	5,431732E+08	9,735824E+08	1,304342E+09	1,304364E+09	9,736309E+08	5,432150E+08
1513	1,936986E+08	1,876119E+07	0,000000E+00	0,000000E+00	1,875740E+07	1,936838E+08	5,431928E+08	9,735875E+08	1,304314E+09	1,304324E+09	9,736069E+08	5,432053E+08
1514	1,936887E+08	1,875868E+07	0,000000E+00	0,000000E+00	1,876182E+07	1,937025E+08	5,432192E+08	9,736258E+08	1,304346E+09	1,304328E+09	9,735815E+08	5,431770E+08
1515	1,936718E+08	1,875314E+07	0,000000E+00	0,000000E+00	1,875152E+07	1,936670E+08	5,431795E+08	9,736019E+08	1,304365E+09	1,304387E+09	9,736568E+08	5,432308E+08
1516	1,937000E+08	1,875866E+07	0,000000E+00	0,000000E+00	1,875593E+07	1,936928E+08	5,432338E+08	9,736737E+08	1,304406E+09	1,304382E+09	9,736215E+08	5,431904E+08
1517	1,936655E+08	1,874886E+07	0,000000E+00	0,000000E+00	1,875175E+07	1,936814E+08	5,432202E+08	9,736822E+08	1,304458E+09	1,304448E+09	9,736601E+08	5,432007E+08
1518	1,936672E+08	1,874576E+07	0,000000E+00	0,000000E+00	1,874239E+07	1,936534E+08	5,431922E+08	9,736678E+08	1,304471E+09	1,304497E+09	9,737268E+08	5,432459E+08
1519	1,936857E+08	1,874937E+07	0,000000E+00	0,000000E+00	1,874968E+07	1,936874E+08	5,432460E+08	9,737314E+08	1,304515E+09	1,304502E+09	9,736913E+08	5,431989E+08
1520	1,936484E+08	1,873810E+07	0,000000E+00	0,000000E+00	1,873973E+07	1,936597E+08	5,432148E+08	9,737092E+08	1,304524E+09	1,304540E+09	9,737431E+08	5,432390E+08
1521	1,936712E+08	1,874212E+07	0,000000E+00	0,000000E+00	1,873926E+07	1,936580E+08	5,432212E+08	9,737165E+08	1,304510E+09	1,304518E+09	9,737382E+08	5,432463E+08
1522	1,936752E+08	1,874363E+07	0,000000E+00	0,000000E+00	1,874587E+07	1,936827E+08	5,432543E+08	9,737597E+08	1,304544E+09	1,304509E+09	9,736874E+08	5,431979E+08
1523	1,936498E+08	1,873717E+07	0,000000E+00	0,000000E+00	1,873702E+07	1,936482E+08	5,431983E+08	9,736943E+08	1,304513E+09	1,304531E+09	9,737381E+08	5,432429E+08
1524	1,936833E+08	1,874871E+07	0,000000E+00	0,000000E+00	1,874605E+07	1,936727E+08	5,432288E+08	9,737025E+08	1,304469E+09	1,304457E+09	9,736764E+08	5,432095E+08
1525	1,936656E+08	1,874606E+07	0,000000E+00	0,000000E+00	1,875092E+07	1,936858E+08	5,432274E+08	9,736821E+08	1,304444E+09	1,304426E+09	9,736386E+08	5,431882E+08
1526	1,936637E+08	1,874762E+07	0,000000E+00	0,000000E+00	1,874823E+07	1,936619E+08	5,431796E+08	9,736086E+08	1,304372E+09	1,304395E+09	9,736626E+08	5,432326E+08
1527	1,937008E+08	1,875991E+07	0,000000E+00	0,000000E+00	1,876111E+07	1,937023E+08	5,432261E+08	9,736350E+08	1,304348E+09	1,304323E+09	9,735754E+08	5,431752E+08
1528	1,936725E+08	1,875531E+07	0,000000E+00	0,000000E+00	1,875950E+07	1,936884E+08	5,431898E+08	9,735820E+08	1,304307E+09	1,304301E+09	9,735716E+08	5,431877E+08
1529	1,936934E+08	1,876330E+07	0,000000E+00	0,000000E+00	1,876050E+07	1,936766E+08	5,431592E+08	9,735233E+08	1,304235E+09	1,304252E+09	9,735674E+08	5,432068E+08
1530	1,937120E+08	1,876990E+07	0,000000E+00	0,000000E+00	1,877111E+07	1,937143E+08	5,432012E+08	9,735538E+08	1,304232E+09	1,304208E+09	9,734958E+08	5,431491E+08
1531	1,936807E+08	1,876410E+07	0,000000E+00	0,000000E+00	1,876512E+07	1,936859E+08	5,431519E+08	9,734922E+08	1,304201E+09	1,304226E+09	9,735457E+08	5,431942E+08
1532	1,937110E+08	1,877167E+07	0,000000E+00	0,000000E+00	1,876829E+07	1,936996E+08	5,431835E+08	9,735223E+08	1,304192E+09	1,304189E+09	9,735151E+08	5,431794E+08
1533	1,936988E+08	1,876828E+07	0,000000E+00	0,000000E+00	1,877256E+07	1,937185E+08	5,432094E+08	9,735668E+08	1,304246E+09	1,304214E+09	9,734974E+08	5,431491E+08
1534	1,936793E+08	1,876171E+07	0,000000E+00	0,000000E+00	1,876069E+07	1,936768E+08	5,431583E+08	9,735311E+08	1,304261E+09	1,304283E+09	9,735855E+08	5,432096E+08
1535	1,937093E+08	1,876725E+07	0,000000E+00	0,000000E+00	1,876487E+07	1,937019E+08	5,432093E+08	9,735987E+08	1,304308E+09	1,304294E+09	9,735637E+08	5,431762E+08
1536	1,936776E+08	1,875810E+07	0,000000E+00	0,000000E+00	1,875999E+07	1,936886E+08	5,431941E+08	9,736037E+08	1,304349E+09	1,304347E+09	9,735983E+08	5,431871E+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												
1537	1,936788E+08	1,875476E+07	0,000000E+00	0,000000E+00	1,875138E+07	1,936634E+08	5,431647E+08	9,735739E+08	1,304335E+09	1,304371E+09	9,736522E+08	5,432310E+08
1538	1,937001E+08	1,875941E+07	0,000000E+00	0,000000E+00	1,875910E+07	1,937001E+08	5,432292E+08	9,736529E+08	1,304382E+09	1,304364E+09	9,736067E+08	5,431811E+08
1539	1,936629E+08	1,874849E+07	0,000000E+00	0,000000E+00	1,874960E+07	1,936708E+08	5,431950E+08	9,736333E+08	1,304401E+09	1,304410E+09	9,736553E+08	5,432158E+08
1540	1,936842E+08	1,875282E+07	0,000000E+00	0,000000E+00	1,874941E+07	1,936695E+08	5,432028E+08	9,736422E+08	1,304388E+09	1,304385E+09	9,736414E+08	5,432156E+08
1541	1,936863E+08	1,875458E+07	0,000000E+00	0,000000E+00	1,875726E+07	1,936971E+08	5,432320E+08	9,736747E+08	1,304417E+09	1,304380E+09	9,735958E+08	5,431667E+08
1542	1,936589E+08	1,874792E+07	0,000000E+00	0,000000E+00	1,874892E+07	1,936628E+08	5,431716E+08	9,735966E+08	1,304370E+09	1,304395E+09	9,736524E+08	5,432197E+08
1543	1,936950E+08	1,875953E+07	0,000000E+00	0,000000E+00	1,875854E+07	1,936907E+08	5,432088E+08	9,736115E+08	1,304333E+09	1,304328E+09	9,735956E+08	5,431917E+08
1544	1,936808E+08	1,875750E+07	0,000000E+00	0,000000E+00	1,876246E+07	1,937005E+08	5,432091E+08	9,736019E+08	1,304314E+09	1,304292E+09	9,735521E+08	5,431690E+08
1545	1,936792E+08	1,875921E+07	0,000000E+00	0,000000E+00	1,875969E+07	1,936746E+08	5,431513E+08	9,735111E+08	1,304227E+09	1,304250E+09	9,735694E+08	5,432117E+08
1546	1,937187E+08	1,877244E+07	0,000000E+00	0,000000E+00	1,877206E+07	1,937138E+08	5,431983E+08	9,735377E+08	1,304201E+09	1,304174E+09	9,734811E+08	5,431530E+08
1547	1,936894E+08	1,876815E+07	0,000000E+00	0,000000E+00	1,877110E+07	1,936991E+08	5,431577E+08	9,734797E+08	1,304159E+09	1,304158E+09	9,734806E+08	5,431645E+08
1548	1,937082E+08	1,877552E+07	0,000000E+00	0,000000E+00	1,877231E+07	1,936914E+08	5,431361E+08	9,734273E+08	1,304084E+09	1,304100E+09	9,734663E+08	5,431776E+08
1549	1,937234E+08	1,878111E+07	0,000000E+00	0,000000E+00	1,878353E+07	1,937333E+08	5,431860E+08	9,734678E+08	1,304091E+09	1,304063E+09	9,733990E+08	5,431192E+08
1550	1,936897E+08	1,877406E+07	0,000000E+00	0,000000E+00	1,877649E+07	1,937017E+08	5,431371E+08	9,734163E+08	1,304072E+09	1,304091E+09	9,734579E+08	5,431702E+08
1551	1,937212E+08	1,878094E+07	0,000000E+00	0,000000E+00	1,877849E+07	1,937127E+08	5,431666E+08	9,734562E+08	1,304093E+09	1,304085E+09	9,734413E+08	5,431594E+08
1552	1,937112E+08	1,877807E+07	0,000000E+00	0,000000E+00	1,878105E+07	1,937255E+08	5,431867E+08	9,734995E+08	1,304152E+09	1,304120E+09	9,734317E+08	5,431308E+08
1553	1,936909E+08	1,877116E+07	0,000000E+00	0,000000E+00	1,876912E+07	1,936828E+08	5,431250E+08	9,734387E+08	1,304140E+09	1,304176E+09	9,735195E+08	5,431944E+08
1554	1,937230E+08	1,877738E+07	0,000000E+00	0,000000E+00	1,877361E+07	1,937114E+08	5,431837E+08	9,735102E+08	1,304178E+09	1,304174E+09	9,734958E+08	5,431635E+08
1555	1,936915E+08	1,876818E+07	0,000000E+00	0,000000E+00	1,876962E+07	1,937001E+08	5,431740E+08	9,735224E+08	1,304222E+09	1,304224E+09	9,735248E+08	5,431714E+08
1556	1,936915E+08	1,876430E+07	0,000000E+00	0,000000E+00	1,876115E+07	1,936776E+08	5,431547E+08	9,735075E+08	1,304214E+09	1,304238E+09	9,735620E+08	5,432055E+08
1557	1,937105E+08	1,876890E+07	0,000000E+00	0,000000E+00	1,876943E+07	1,937152E+08	5,432174E+08	9,735879E+08	1,304273E+09	1,304243E+09	9,735182E+08	5,431512E+08
1558	1,936711E+08	1,875770E+07	0,000000E+00	0,000000E+00	1,875963E+07	1,936827E+08	5,431746E+08	9,735568E+08	1,304285E+09	1,304293E+09	9,735744E+08	5,431900E+08
1559	1,936932E+08	1,876232E+07	0,000000E+00	0,000000E+00	1,875998E+07	1,936818E+08	5,431787E+08	9,735612E+08	1,304278E+09	1,304280E+09	9,735695E+08	5,431951E+08
1560	1,936984E+08	1,876513E+07	0,000000E+00	0,000000E+00	1,876771E+07	1,937092E+08	5,432083E+08	9,735884E+08	1,304292E+09	1,304262E+09	9,735205E+08	5,431485E+08
1561	1,936719E+08	1,875868E+07	0,000000E+00	0,000000E+00	1,876025E+07	1,936765E+08	5,431442E+08	9,734932E+08	1,304215E+09	1,304249E+09	9,735650E+08	5,432023E+08
1562	1,937122E+08	1,877153E+07	0,000000E+00	0,000000E+00	1,876979E+07	1,937046E+08	5,431875E+08	9,735199E+08	1,304180E+09	1,304171E+09	9,735011E+08	5,431736E+08
1563	1,936994E+08	1,877027E+07	0,000000E+00	0,000000E+00	1,877414E+07	1,937120E+08	5,431810E+08	9,735063E+08	1,304167E+09	1,304141E+09	9,734537E+08	5,431450E+08
1564	1,936960E+08	1,877202E+07	0,000000E+00	0,000000E+00	1,877142E+07	1,936873E+08	5,431257E+08	9,734138E+08	1,304075E+09	1,304094E+09	9,734612E+08	5,431792E+08
1565	1,937322E+08	1,878499E+07	0,000000E+00	0,000000E+00	1,878460E+07	1,937292E+08	5,431721E+08	9,734375E+08	1,304051E+09	1,304026E+09	9,733794E+08	5,431193E+08
1566	1,936997E+08	1,877976E+07	0,000000E+00	0,000000E+00	1,878374E+07	1,937156E+08	5,431330E+08	9,733791E+08	1,304006E+09	1,304010E+09	9,733861E+08	5,431373E+08
1567	1,937188E+08	1,878620E+07	0,000000E+00	0,000000E+00	1,878455E+07	1,937096E+08	5,431202E+08	9,733479E+08	1,303960E+09	1,303974E+09	9,733821E+08	5,431552E+08
1568	1,937360E+08	1,879170E+07	0,000000E+00	0,000000E+00	1,879408E+07	1,937471E+08	5,431720E+08	9,734020E+08	1,303983E+09	1,303947E+09	9,733214E+08	5,430999E+08
1569	1,937024E+08	1,878416E+07	0,000000E+00	0,000000E+00	1,878614E+07	1,937115E+08	5,431125E+08	9,733359E+08	1,303957E+09	1,303978E+09	9,733837E+08	5,431528E+08
1570	1,937357E+08	1,879140E+07	0,000000E+00	0,000000E+00	1,878713E+07	1,937203E+08	5,431421E+08	9,733769E+08	1,303976E+09	1,303973E+09	9,733744E+08	5,431459E+08
1571	1,937260E+08	1,878883E+07	0,000000E+00	0,000000E+00	1,879017E+07	1,937317E+08	5,431553E+08	9,734105E+08	1,304030E+09	1,304011E+09	9,733666E+08	5,431163E+08
1572	1,937038E+08	1,878116E+07	0,000000E+00	0,000000E+00	1,877883E+07	1,936954E+08	5,431046E+08	9,733510E+08	1,304004E+09	1,304045E+09	9,734370E+08	5,431721E+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												
1573	1,937332E+08	1,878682E+07	0,000000E+00	0,000000E+00	1,878421E+07	1,937274E+08	5,431699E+08	9,734315E+08	1,304047E+09	1,304042E+09	9,734092E+08	5,431370E+08
1574	1,936996E+08	1,877677E+07	0,000000E+00	0,000000E+00	1,877990E+07	1,937149E+08	5,431611E+08	9,734529E+08	1,304101E+09	1,304094E+09	9,734381E+08	5,431466E+08
1575	1,937004E+08	1,877286E+07	0,000000E+00	0,000000E+00	1,877104E+07	1,936909E+08	5,431401E+08	9,734471E+08	1,304120E+09	1,304132E+09	9,734825E+08	5,431806E+08
1576	1,937208E+08	1,877836E+07	0,000000E+00	0,000000E+00	1,877833E+07	1,937241E+08	5,431975E+08	9,735205E+08	1,304174E+09	1,304142E+09	9,734464E+08	5,431298E+08
1577	1,936821E+08	1,876761E+07	0,000000E+00	0,000000E+00	1,876924E+07	1,936919E+08	5,431451E+08	9,734643E+08	1,304157E+09	1,304175E+09	9,735010E+08	5,431719E+08
1578	1,937069E+08	1,877326E+07	0,000000E+00	0,000000E+00	1,877016E+07	1,936939E+08	5,431550E+08	9,734687E+08	1,304135E+09	1,304146E+09	9,734935E+08	5,431805E+08
1579	1,937140E+08	1,877675E+07	0,000000E+00	0,000000E+00	1,877883E+07	1,937218E+08	5,431852E+08	9,734980E+08	1,304150E+09	1,304124E+09	9,734374E+08	5,431314E+08
1580	1,936881E+08	1,877048E+07	0,000000E+00	0,000000E+00	1,877201E+07	1,936925E+08	5,431278E+08	9,734078E+08	1,304070E+09	1,304095E+09	9,734624E+08	5,431753E+08
1581	1,937270E+08	1,878354E+07	0,000000E+00	0,000000E+00	1,878182E+07	1,937192E+08	5,431651E+08	9,734303E+08	1,304042E+09	1,304027E+09	9,733998E+08	5,431420E+08
1582	1,937119E+08	1,878199E+07	0,000000E+00	0,000000E+00	1,878613E+07	1,937249E+08	5,431530E+08	9,734083E+08	1,304020E+09	1,303996E+09	9,733584E+08	5,431175E+08
1583	1,937085E+08	1,878370E+07	0,000000E+00	0,000000E+00	1,878367E+07	1,937013E+08	5,430969E+08	9,733182E+08	1,303940E+09	1,303961E+09	9,733716E+08	5,431533E+08
1584	1,937449E+08	1,879664E+07	0,000000E+00	0,000000E+00	1,879621E+07	1,937437E+08	5,431489E+08	9,733445E+08	1,303910E+09	1,303890E+09	9,732927E+08	5,430966E+08
1585	1,937124E+08	1,879095E+07	0,000000E+00	0,000000E+00	1,879546E+07	1,937308E+08	5,431106E+08	9,732830E+08	1,303854E+09	1,303863E+09	9,732959E+08	5,431165E+08
1586	1,937336E+08	1,879750E+07	0,000000E+00	0,000000E+00	1,879522E+07	1,937232E+08	5,431032E+08	9,732692E+08	1,303826E+09	1,303834E+09	9,732966E+08	5,431370E+08
1587	1,937517E+08	1,880337E+07	0,000000E+00	0,000000E+00	1,880438E+07	1,937563E+08	5,431465E+08	9,733212E+08	1,303863E+09	1,303827E+09	9,732427E+08	5,430813E+08
1588	1,937176E+08	1,879551E+07	0,000000E+00	0,000000E+00	1,879622E+07	1,937222E+08	5,430891E+08	9,732506E+08	1,303829E+09	1,303852E+09	9,732989E+08	5,431282E+08
1589	1,937475E+08	1,880199E+07	0,000000E+00	0,000000E+00	1,879756E+07	1,937320E+08	5,431173E+08	9,732894E+08	1,303848E+09	1,303852E+09	9,732953E+08	5,431210E+08
1590	1,937349E+08	1,879822E+07	0,000000E+00	0,000000E+00	1,880066E+07	1,937453E+08	5,431346E+08	9,733250E+08	1,303897E+09	1,303885E+09	9,732901E+08	5,430963E+08
1591	1,937125E+08	1,878953E+07	0,000000E+00	0,000000E+00	1,878900E+07	1,937108E+08	5,430928E+08	9,732883E+08	1,303900E+09	1,303934E+09	9,733621E+08	5,431516E+08
1592	1,937426E+08	1,879521E+07	0,000000E+00	0,000000E+00	1,879311E+07	1,937394E+08	5,431597E+08	9,733772E+08	1,303954E+09	1,303939E+09	9,733378E+08	5,431175E+08
1593	1,937095E+08	1,878528E+07	0,000000E+00	0,000000E+00	1,878839E+07	1,937238E+08	5,431403E+08	9,733812E+08	1,303994E+09	1,303986E+09	9,733653E+08	5,431272E+08
1594	1,937126E+08	1,878248E+07	0,000000E+00	0,000000E+00	1,877935E+07	1,936987E+08	5,431184E+08	9,733737E+08	1,304007E+09	1,304023E+09	9,734159E+08	5,431652E+08
1595	1,937344E+08	1,878916E+07	0,000000E+00	0,000000E+00	1,878771E+07	1,937312E+08	5,431670E+08	9,734315E+08	1,304050E+09	1,304027E+09	9,733777E+08	5,431149E+08
1596	1,936964E+08	1,877858E+07	0,000000E+00	0,000000E+00	1,877989E+07	1,937058E+08	5,431236E+08	9,733698E+08	1,304010E+09	1,304033E+09	9,734120E+08	5,431492E+08
1597	1,937199E+08	1,878439E+07	0,000000E+00	0,000000E+00	1,878192E+07	1,937097E+08	5,431368E+08	9,733804E+08	1,303990E+09	1,303998E+09	9,733984E+08	5,431542E+08
1598	1,937262E+08	1,878756E+07	0,000000E+00	0,000000E+00	1,879060E+07	1,937360E+08	5,431633E+08	9,734091E+08	1,304005E+09	1,303973E+09	9,733392E+08	5,431058E+08
1599	1,937012E+08	1,878174E+07	0,000000E+00	0,000000E+00	1,878404E+07	1,937066E+08	5,431039E+08	9,733246E+08	1,303945E+09	1,303961E+09	9,733657E+08	5,431468E+08
1600	1,937405E+08	1,879542E+07	0,000000E+00	0,000000E+00	1,879318E+07	1,937309E+08	5,431373E+08	9,733375E+08	1,303906E+09	1,303893E+09	9,733098E+08	5,431159E+08
1601	1,937250E+08	1,879389E+07	0,000000E+00	0,000000E+00	1,879807E+07	1,937381E+08	5,431209E+08	9,732986E+08	1,303861E+09	1,303847E+09	9,732658E+08	5,430939E+08
1602	1,937232E+08	1,879603E+07	0,000000E+00	0,000000E+00	1,879568E+07	1,937176E+08	5,430764E+08	9,732221E+08	1,303783E+09	1,303808E+09	9,732825E+08	5,431336E+08
1603	1,937600E+08	1,880895E+07	0,000000E+00	0,000000E+00	1,880816E+07	1,937581E+08	5,431285E+08	9,732581E+08	1,303769E+09	1,303748E+09	9,732049E+08	5,430777E+08
1604	1,937283E+08	1,880291E+07	0,000000E+00	0,000000E+00	1,880724E+07	1,937472E+08	5,430961E+08	9,732040E+08	1,303721E+09	1,303720E+09	9,731991E+08	5,430899E+08
1605	1,937470E+08	1,880888E+07	0,000000E+00	0,000000E+00	1,880650E+07	1,937367E+08	5,430833E+08	9,731903E+08	1,303704E+09	1,303710E+09	9,732092E+08	5,431094E+08
1606	1,937624E+08	1,881376E+07	0,000000E+00	0,000000E+00	1,881505E+07	1,937669E+08	5,431200E+08	9,732347E+08	1,303737E+09	1,303707E+09	9,731663E+08	5,430608E+08
1607	1,937286E+08	1,880538E+07	0,000000E+00	0,000000E+00	1,880686E+07	1,937343E+08	5,430637E+08	9,731703E+08	1,303717E+09	1,303740E+09	9,732256E+08	5,431083E+08
1608	1,937577E+08	1,881117E+07	0,000000E+00	0,000000E+00	1,880718E+07	1,937439E+08	5,430969E+08	9,732096E+08	1,303727E+09	1,303736E+09	9,732241E+08	5,431038E+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												
1609	1,937452E+08	1,880697E+07	0,000000E+00	0,000000E+00	1,880997E+07	1,937569E+08	5,431156E+08	9,732453E+08	1,303768E+09	1,303756E+09	9,732122E+08	5,430792E+08
1610	1,937251E+08	1,879868E+07	0,000000E+00	0,000000E+00	1,879747E+07	1,937213E+08	5,430784E+08	9,732235E+08	1,303785E+09	1,303812E+09	9,732858E+08	5,431335E+08
1611	1,937552E+08	1,880519E+07	0,000000E+00	0,000000E+00	1,880153E+07	1,937457E+08	5,431355E+08	9,733062E+08	1,303850E+09	1,303832E+09	9,732661E+08	5,430993E+08
1612	1,937232E+08	1,879573E+07	0,000000E+00	0,000000E+00	1,879756E+07	1,937342E+08	5,431190E+08	9,733015E+08	1,303874E+09	1,303867E+09	9,732844E+08	5,431026E+08
1613	1,937235E+08	1,879295E+07	0,000000E+00	0,000000E+00	1,878966E+07	1,937109E+08	5,430950E+08	9,732882E+08	1,303882E+09	1,303902E+09	9,733366E+08	5,431408E+08
1614	1,937438E+08	1,879896E+07	0,000000E+00	0,000000E+00	1,879869E+07	1,937453E+08	5,431463E+08	9,733451E+08	1,303915E+09	1,303896E+09	9,732983E+08	5,430964E+08
1615	1,937080E+08	1,878842E+07	0,000000E+00	0,000000E+00	1,879136E+07	1,937216E+08	5,431076E+08	9,732994E+08	1,303894E+09	1,303906E+09	9,733267E+08	5,431271E+08
1616	1,937318E+08	1,879458E+07	0,000000E+00	0,000000E+00	1,879268E+07	1,937227E+08	5,431179E+08	9,733060E+08	1,303871E+09	1,303874E+09	9,733145E+08	5,431324E+08
1617	1,937391E+08	1,879816E+07	0,000000E+00	0,000000E+00	1,880114E+07	1,937467E+08	5,431355E+08	9,733154E+08	1,303866E+09	1,303836E+09	9,732511E+08	5,430834E+08
1618	1,937163E+08	1,879352E+07	0,000000E+00	0,000000E+00	1,879492E+07	1,937180E+08	5,430773E+08	9,732300E+08	1,303798E+09	1,303819E+09	9,732798E+08	5,431258E+08
1619	1,937557E+08	1,880807E+07	0,000000E+00	0,000000E+00	1,880485E+07	1,937424E+08	5,431051E+08	9,732332E+08	1,303755E+09	1,303749E+09	9,732209E+08	5,430957E+08
1620	1,937411E+08	1,880652E+07	0,000000E+00	0,000000E+00	1,881078E+07	1,937568E+08	5,431010E+08	9,731968E+08	1,303696E+09	1,303682E+09	9,731603E+08	5,430659E+08
1621	1,937371E+08	1,880831E+07	0,000000E+00	0,000000E+00	1,880861E+07	1,937358E+08	5,430605E+08	9,731359E+08	1,303636E+09	1,303653E+09	9,731785E+08	5,431036E+08
1622	1,937719E+08	1,882013E+07	0,000000E+00	0,000000E+00	1,882029E+07	1,937730E+08	5,431082E+08	9,731753E+08	1,303634E+09	1,303604E+09	9,731098E+08	5,430532E+08
1623	1,937417E+08	1,881418E+07	0,000000E+00	0,000000E+00	1,881881E+07	1,937596E+08	5,430722E+08	9,731290E+08	1,303612E+09	1,303601E+09	9,731136E+08	5,430649E+08
1624	1,937592E+08	1,881971E+07	0,000000E+00	0,000000E+00	1,881686E+07	1,937466E+08	5,430557E+08	9,731055E+08	1,303586E+09	1,303598E+09	9,731365E+08	5,430894E+08
1625	1,937740E+08	1,882396E+07	0,000000E+00	0,000000E+00	1,882500E+07	1,937766E+08	5,430886E+08	9,731346E+08	1,303597E+09	1,303580E+09	9,730912E+08	5,430440E+08
1626	1,937418E+08	1,881555E+07	0,000000E+00	0,000000E+00	1,881659E+07	1,937472E+08	5,430456E+08	9,730879E+08	1,303581E+09	1,303611E+09	9,731519E+08	5,430936E+08
1627	1,937711E+08	1,882129E+07	0,000000E+00	0,000000E+00	1,881655E+07	1,937544E+08	5,430773E+08	9,731362E+08	1,303609E+09	1,303615E+09	9,731489E+08	5,430885E+08
1628	1,937594E+08	1,881691E+07	0,000000E+00	0,000000E+00	1,881924E+07	1,937699E+08	5,431012E+08	9,731757E+08	1,303653E+09	1,303632E+09	9,731263E+08	5,430548E+08
1629	1,937365E+08	1,880852E+07	0,000000E+00	0,000000E+00	1,880674E+07	1,937322E+08	5,430614E+08	9,731569E+08	1,303682E+09	1,303703E+09	9,732071E+08	5,431071E+08
1630	1,937635E+08	1,881425E+07	0,000000E+00	0,000000E+00	1,881104E+07	1,937551E+08	5,431113E+08	9,732285E+08	1,303737E+09	1,303723E+09	9,731958E+08	5,430800E+08
1631	1,937332E+08	1,880509E+07	0,000000E+00	0,000000E+00	1,880780E+07	1,937466E+08	5,430968E+08	9,732282E+08	1,303770E+09	1,303759E+09	9,732113E+08	5,430817E+08
1632	1,937325E+08	1,880201E+07	0,000000E+00	0,000000E+00	1,880002E+07	1,937251E+08	5,430775E+08	9,732101E+08	1,303759E+09	1,303784E+09	9,732621E+08	5,431224E+08
1633	1,937543E+08	1,880805E+07	0,000000E+00	0,000000E+00	1,880880E+07	1,937576E+08	5,431252E+08	9,732605E+08	1,303778E+09	1,303758E+09	9,732126E+08	5,430776E+08
1634	1,937222E+08	1,879876E+07	0,000000E+00	0,000000E+00	1,880160E+07	1,937341E+08	5,430889E+08	9,732211E+08	1,303761E+09	1,303768E+09	9,732397E+08	5,431072E+08
1635	1,937475E+08	1,880646E+07	0,000000E+00	0,000000E+00	1,880318E+07	1,937314E+08	5,430868E+08	9,732138E+08	1,303739E+09	1,303741E+09	9,732277E+08	5,431119E+08
1636	1,937558E+08	1,881063E+07	0,000000E+00	0,000000E+00	1,881264E+07	1,937606E+08	5,431081E+08	9,732127E+08	1,303711E+09	1,303684E+09	9,731509E+08	5,430550E+08
1637	1,937304E+08	1,880629E+07	0,000000E+00	0,000000E+00	1,880763E+07	1,937346E+08	5,430534E+08	9,731305E+08	1,303645E+09	1,303667E+09	9,731782E+08	5,430948E+08
1638	1,937665E+08	1,881952E+07	0,000000E+00	0,000000E+00	1,881777E+07	1,937601E+08	5,430851E+08	9,731400E+08	1,303603E+09	1,303596E+09	9,731238E+08	5,430711E+08
1639	1,937543E+08	1,881803E+07	0,000000E+00	0,000000E+00	1,882363E+07	1,937746E+08	5,430857E+08	9,731260E+08	1,303577E+09	1,303546E+09	9,730642E+08	5,430389E+08
1640	1,937494E+08	1,881943E+07	0,000000E+00	0,000000E+00	1,882023E+07	1,937500E+08	5,430410E+08	9,730597E+08	1,303518E+09	1,303530E+09	9,730942E+08	5,430809E+08
1641	1,937847E+08	1,883097E+07	0,000000E+00	0,000000E+00	1,883070E+07	1,937824E+08	5,430785E+08	9,730823E+08	1,303502E+09	1,303478E+09	9,730304E+08	5,430353E+08
1642	1,937576E+08	1,882580E+07	0,000000E+00	0,000000E+00	1,882916E+07	1,937693E+08	5,430428E+08	9,730342E+08	1,303473E+09	1,303475E+09	9,730411E+08	5,430500E+08
1643	1,937747E+08	1,883137E+07	0,000000E+00	0,000000E+00	1,882709E+07	1,937554E+08	5,430213E+08	9,730032E+08	1,303445E+09	1,303470E+09	9,730618E+08	5,430753E+08
1644	1,937895E+08	1,883504E+07	0,000000E+00	0,000000E+00	1,883557E+07	1,937919E+08	5,430688E+08	9,730399E+08	1,303445E+09	1,303431E+09	9,729992E+08	5,430210E+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°
1645	1,937545E+08	1,882600E+07	0,000000E+00	0,000000E+00	1,882708E+07	1,937618E+08	5,430317E+08	9,730143E+08	1,303454E+09	1,303473E+09	9,730569E+08	5,430649E+08
1646	1,937800E+08	1,883033E+07	0,000000E+00	0,000000E+00	1,882642E+07	1,937666E+08	5,430605E+08	9,730687E+08	1,303499E+09	1,303493E+09	9,730636E+08	5,430642E+08
1647	1,937699E+08	1,882630E+07	0,000000E+00	0,000000E+00	1,882893E+07	1,937811E+08	5,430834E+08	9,731176E+08	1,303566E+09	1,303531E+09	9,730493E+08	5,430289E+08
1648	1,937447E+08	1,881742E+07	0,000000E+00	0,000000E+00	1,881609E+07	1,937432E+08	5,430415E+08	9,730877E+08	1,303583E+09	1,303608E+09	9,731423E+08	5,430869E+08
1649	1,937712E+08	1,882270E+07	0,000000E+00	0,000000E+00	1,882023E+07	1,937659E+08	5,430878E+08	9,731442E+08	1,303613E+09	1,303609E+09	9,731287E+08	5,430654E+08
1650	1,937449E+08	1,881423E+07	0,000000E+00	0,000000E+00	1,881725E+07	1,937596E+08	5,430819E+08	9,731538E+08	1,303645E+09	1,303640E+09	9,731432E+08	5,430683E+08
1651	1,937460E+08	1,881198E+07	0,000000E+00	0,000000E+00	1,880964E+07	1,937353E+08	5,430552E+08	9,731336E+08	1,303642E+09	1,303664E+09	9,731869E+08	5,431082E+08
1652	1,937704E+08	1,881878E+07	0,000000E+00	0,000000E+00	1,881873E+07	1,937699E+08	5,431035E+08	9,731752E+08	1,303646E+09	1,303621E+09	9,731200E+08	5,430531E+08
1653	1,937368E+08	1,881033E+07	0,000000E+00	0,000000E+00	1,881239E+07	1,937461E+08	5,430650E+08	9,731348E+08	1,303630E+09	1,303633E+09	9,731446E+08	5,430779E+08
1654	1,937593E+08	1,881768E+07	0,000000E+00	0,000000E+00	1,881482E+07	1,937439E+08	5,430576E+08	9,731161E+08	1,303594E+09	1,303599E+09	9,731358E+08	5,430875E+08
1655	1,937693E+08	1,882234E+07	0,000000E+00	0,000000E+00	1,882511E+07	1,937766E+08	5,430841E+08	9,731230E+08	1,303575E+09	1,303542E+09	9,730549E+08	5,430276E+08
1656	1,937420E+08	1,881767E+07	0,000000E+00	0,000000E+00	1,882028E+07	1,937527E+08	5,430361E+08	9,730429E+08	1,303502E+09	1,303523E+09	9,730853E+08	5,430697E+08
1657	1,937780E+08	1,883028E+07	0,000000E+00	0,000000E+00	1,882939E+07	1,937742E+08	5,430622E+08	9,730477E+08	1,303456E+09	1,303445E+09	9,730272E+08	5,430480E+08
1658	1,937699E+08	1,882994E+07	0,000000E+00	0,000000E+00	1,883501E+07	1,937873E+08	5,430625E+08	9,730384E+08	1,303440E+09	1,303410E+09	9,729773E+08	5,430183E+08
1659	1,937665E+08	1,883237E+07	0,000000E+00	0,000000E+00	1,883136E+07	1,937589E+08	5,430062E+08	9,729604E+08	1,303383E+09	1,303403E+09	9,730128E+08	5,430632E+08
1660	1,938026E+08	1,884367E+07	0,000000E+00	0,000000E+00	1,884193E+07	1,937949E+08	5,430463E+08	9,729731E+08	1,303345E+09	1,303331E+09	9,729382E+08	5,430120E+08
1661	1,937730E+08	1,883824E+07	0,000000E+00	0,000000E+00	1,884111E+07	1,937846E+08	5,430193E+08	9,729372E+08	1,303323E+09	1,303328E+09	9,729465E+08	5,430239E+08
1662	1,937858E+08	1,884170E+07	0,000000E+00	0,000000E+00	1,883865E+07	1,937716E+08	5,430035E+08	9,729179E+08	1,303304E+09	1,303327E+09	9,729716E+08	5,430527E+08
1663	1,938010E+08	1,884484E+07	0,000000E+00	0,000000E+00	1,884640E+07	1,938073E+08	5,430576E+08	9,729825E+08	1,303343E+09	1,303310E+09	9,729111E+08	5,429935E+08
1664	1,937629E+08	1,883481E+07	0,000000E+00	0,000000E+00	1,883684E+07	1,937756E+08	5,430205E+08	9,729575E+08	1,303362E+09	1,303373E+09	9,729829E+08	5,430401E+08
1665	1,937868E+08	1,883832E+07	0,000000E+00	0,000000E+00	1,883485E+07	1,937752E+08	5,430396E+08	9,729984E+08	1,303397E+09	1,303394E+09	9,729969E+08	5,430454E+08
1666	1,937806E+08	1,883536E+07	0,000000E+00	0,000000E+00	1,883756E+07	1,937902E+08	5,430619E+08	9,730437E+08	1,303459E+09	1,303435E+09	9,729927E+08	5,430160E+08
1667	1,937572E+08	1,882715E+07	0,000000E+00	0,000000E+00	1,882499E+07	1,937518E+08	5,430145E+08	9,730032E+08	1,303467E+09	1,303502E+09	9,730811E+08	5,430768E+08
1668	1,937856E+08	1,883247E+07	0,000000E+00	0,000000E+00	1,882956E+07	1,937785E+08	5,430683E+08	9,730577E+08	1,303476E+09	1,303475E+09	9,730463E+08	5,430472E+08
1669	1,937593E+08	1,882461E+07	0,000000E+00	0,000000E+00	1,882716E+07	1,937717E+08	5,430642E+08	9,730777E+08	1,303518E+09	1,303505E+09	9,730507E+08	5,430430E+08
1670	1,937578E+08	1,882191E+07	0,000000E+00	0,000000E+00	1,881996E+07	1,937463E+08	5,430310E+08	9,730502E+08	1,303515E+09	1,303532E+09	9,730976E+08	5,430843E+08
1671	1,937841E+08	1,882981E+07	0,000000E+00	0,000000E+00	1,882951E+07	1,937813E+08	5,430790E+08	9,730969E+08	1,303529E+09	1,303496E+09	9,730297E+08	5,430239E+08
1672	1,937476E+08	1,882127E+07	0,000000E+00	0,000000E+00	1,882399E+07	1,937608E+08	5,430412E+08	9,730448E+08	1,303497E+09	1,303504E+09	9,730576E+08	5,430506E+08
1673	1,937687E+08	1,882820E+07	0,000000E+00	0,000000E+00	1,882638E+07	1,937589E+08	5,430337E+08	9,730180E+08	1,303444E+09	1,303454E+09	9,730451E+08	5,430645E+08
1674	1,937830E+08	1,883369E+07	0,000000E+00	0,000000E+00	1,883698E+07	1,937935E+08	5,430679E+08	9,730362E+08	1,303430E+09	1,303400E+09	9,729690E+08	5,430079E+08
1675	1,937578E+08	1,882988E+07	0,000000E+00	0,000000E+00	1,883189E+07	1,937654E+08	5,430117E+08	9,729561E+08	1,303370E+09	1,303389E+09	9,729991E+08	5,430518E+08
1676	1,937958E+08	1,884265E+07	0,000000E+00	0,000000E+00	1,884066E+07	1,937876E+08	5,430368E+08	9,729516E+08	1,303310E+09	1,303301E+09	9,729325E+08	5,430242E+08
1677	1,937872E+08	1,884302E+07	0,000000E+00	0,000000E+00	1,884674E+07	1,937991E+08	5,430337E+08	9,729409E+08	1,303297E+09	1,303269E+09	9,728832E+08	5,429919E+08
1678	1,937803E+08	1,884432E+07	0,000000E+00	0,000000E+00	1,884359E+07	1,937721E+08	5,429743E+08	9,728547E+08	1,303231E+09	1,303259E+09	9,729232E+08	5,430411E+08
1679	1,938166E+08	1,885522E+07	0,000000E+00	0,000000E+00	1,885407E+07	1,938105E+08	5,430238E+08	9,728844E+08	1,303206E+09	1,303187E+09	9,728431E+08	5,429844E+08
1680	1,937830E+08	1,884846E+07	0,000000E+00	0,000000E+00	1,885299E+07	1,938027E+08	5,430067E+08	9,728597E+08	1,303190E+09	1,303190E+09	9,728551E+08	5,429969E+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	1,937939E+08	1,885053E+07	0,000000E+00	0,000000E+00	1,884861E+07	1,937847E+08	5,429879E+08	9,728457E+08	1,303182E+09	1,303195E+09	9,728826E+08	5,430283E+08
1682	1,938125E+08	1,885442E+07	0,000000E+00	0,000000E+00	1,885558E+07	1,938180E+08	5,430410E+08	9,729149E+08	1,303237E+09	1,303205E+09	9,728416E+08	5,429745E+08
1683	1,937759E+08	1,884518E+07	0,000000E+00	0,000000E+00	1,884546E+07	1,937821E+08	5,429937E+08	9,728819E+08	1,303261E+09	1,303279E+09	9,729224E+08	5,430257E+08
1684	1,938003E+08	1,884841E+07	0,000000E+00	0,000000E+00	1,884368E+07	1,937851E+08	5,430138E+08	9,729099E+08	1,303272E+09	1,303280E+09	9,729271E+08	5,430280E+08
1685	1,937935E+08	1,884577E+07	0,000000E+00	0,000000E+00	1,884717E+07	1,938017E+08	5,430420E+08	9,729634E+08	1,303337E+09	1,303317E+09	9,729168E+08	5,429967E+08
1686	1,937679E+08	1,883627E+07	0,000000E+00	0,000000E+00	1,883511E+07	1,937650E+08	5,429965E+08	9,729263E+08	1,303343E+09	1,303378E+09	9,730034E+08	5,430592E+08
1687	1,937983E+08	1,884200E+07	0,000000E+00	0,000000E+00	1,883942E+07	1,937899E+08	5,430514E+08	9,729947E+08	1,303371E+09	1,303355E+09	9,729617E+08	5,430223E+08
1688	1,937696E+08	1,883408E+07	0,000000E+00	0,000000E+00	1,883730E+07	1,937846E+08	5,430473E+08	9,730068E+08	1,303407E+09	1,303390E+09	9,729709E+08	5,430179E+08
1689	1,937667E+08	1,883125E+07	0,000000E+00	0,000000E+00	1,882975E+07	1,937564E+08	5,430052E+08	9,729620E+08	1,303384E+09	1,303405E+09	9,730149E+08	5,430607E+08
1690	1,937961E+08	1,884047E+07	0,000000E+00	0,000000E+00	1,884016E+07	1,937939E+08	5,430543E+08	9,730027E+08	1,303391E+09	1,303370E+09	9,729536E+08	5,430046E+08
1691	1,937618E+08	1,883300E+07	0,000000E+00	0,000000E+00	1,883540E+07	1,937748E+08	5,430163E+08	9,729480E+08	1,303353E+09	1,303368E+09	9,729745E+08	5,430322E+08
1692	1,937839E+08	1,883979E+07	0,000000E+00	0,000000E+00	1,883806E+07	1,937753E+08	5,430137E+08	9,729214E+08	1,303286E+09	1,303295E+09	9,729439E+08	5,430392E+08
1693	1,937987E+08	1,884613E+07	0,000000E+00	0,000000E+00	1,884897E+07	1,938080E+08	5,430479E+08	9,729508E+08	1,303289E+09	1,303247E+09	9,728635E+08	5,429797E+08
1694	1,937724E+08	1,884206E+07	0,000000E+00	0,000000E+00	1,884436E+07	1,937788E+08	5,429840E+08	9,728609E+08	1,303228E+09	1,303244E+09	9,729022E+08	5,430268E+08
1695	1,938118E+08	1,885533E+07	0,000000E+00	0,000000E+00	1,885283E+07	1,937996E+08	5,430085E+08	9,728618E+08	1,303176E+09	1,303163E+09	9,728371E+08	5,429951E+08
1696	1,937994E+08	1,885497E+07	0,000000E+00	0,000000E+00	1,885949E+07	1,938156E+08	5,430096E+08	9,728440E+08	1,303151E+09	1,303130E+09	9,727944E+08	5,429658E+08
1697	1,937902E+08	1,885488E+07	0,000000E+00	0,000000E+00	1,885530E+07	1,937879E+08	5,429527E+08	9,727582E+08	1,303079E+09	1,303111E+09	9,728318E+08	5,430176E+08
1698	1,938288E+08	1,886569E+07	0,000000E+00	0,000000E+00	1,886509E+07	1,938260E+08	5,430089E+08	9,728044E+08	1,303074E+09	1,303057E+09	9,727625E+08	5,429648E+08
1699	1,937971E+08	1,885936E+07	0,000000E+00	0,000000E+00	1,886299E+07	1,938138E+08	5,429867E+08	9,727871E+08	1,303079E+09	1,303075E+09	9,727790E+08	5,429789E+08
1700	1,938081E+08	1,886087E+07	0,000000E+00	0,000000E+00	1,885768E+07	1,937951E+08	5,429668E+08	9,727678E+08	1,303065E+09	1,303078E+09	9,728043E+08	5,430068E+08
1701	1,938261E+08	1,886540E+07	0,000000E+00	0,000000E+00	1,886483E+07	1,938262E+08	5,430172E+08	9,728384E+08	1,303126E+09	1,303095E+09	9,727686E+08	5,429552E+08
1702	1,937876E+08	1,885514E+07	0,000000E+00	0,000000E+00	1,885535E+07	1,937922E+08	5,429665E+08	9,727951E+08	1,303140E+09	1,303168E+09	9,728553E+08	5,430108E+08
1703	1,938127E+08	1,885809E+07	0,000000E+00	0,000000E+00	1,885353E+07	1,937970E+08	5,429957E+08	9,728373E+08	1,303155E+09	1,303162E+09	9,728513E+08	5,430069E+08
1704	1,938026E+08	1,885450E+07	0,000000E+00	0,000000E+00	1,885730E+07	1,938160E+08	5,430288E+08	9,728931E+08	1,303217E+09	1,303194E+09	9,728376E+08	5,429739E+08
1705	1,937754E+08	1,884427E+07	0,000000E+00	0,000000E+00	1,884427E+07	1,937760E+08	5,429784E+08	9,728529E+08	1,303222E+09	1,303251E+09	9,729183E+08	5,430362E+08
1706	1,938096E+08	1,885143E+07	0,000000E+00	0,000000E+00	1,884874E+07	1,937999E+08	5,430298E+08	9,729163E+08	1,303256E+09	1,303245E+09	9,728889E+08	5,430020E+08
1707	1,937829E+08	1,884483E+07	0,000000E+00	0,000000E+00	1,884691E+07	1,937934E+08	5,430192E+08	9,729201E+08	1,303285E+09	1,303275E+09	9,728977E+08	5,429996E+08
1708	1,937805E+08	1,884227E+07	0,000000E+00	0,000000E+00	1,884025E+07	1,937699E+08	5,429809E+08	9,728659E+08	1,303238E+09	1,303265E+09	9,729276E+08	5,430374E+08
1709	1,938097E+08	1,885220E+07	0,000000E+00	0,000000E+00	1,885153E+07	1,938089E+08	5,430363E+08	9,729158E+08	1,303247E+09	1,303224E+09	9,728594E+08	5,429808E+08
1710	1,937747E+08	1,884409E+07	0,000000E+00	0,000000E+00	1,884762E+07	1,937909E+08	5,429979E+08	9,728642E+08	1,303216E+09	1,303224E+09	9,728811E+08	5,430091E+08
1711	1,937983E+08	1,885136E+07	0,000000E+00	0,000000E+00	1,884987E+07	1,937892E+08	5,429956E+08	9,728486E+08	1,303164E+09	1,303159E+09	9,728470E+08	5,430100E+08
1712	1,938106E+08	1,885749E+07	0,000000E+00	0,000000E+00	1,886105E+07	1,938225E+08	5,430261E+08	9,728662E+08	1,303160E+09	1,303118E+09	9,727751E+08	5,429528E+08
1713	1,937835E+08	1,885326E+07	0,000000E+00	0,000000E+00	1,885604E+07	1,937908E+08	5,429541E+08	9,727606E+08	1,303080E+09	1,303103E+09	9,728132E+08	5,430042E+08
1714	1,938265E+08	1,886727E+07	0,000000E+00	0,000000E+00	1,886471E+07	1,938129E+08	5,429784E+08	9,727547E+08	1,303024E+09	1,303027E+09	9,727570E+08	5,429769E+08
1715	1,938155E+08	1,886737E+07	0,000000E+00	0,000000E+00	1,887123E+07	1,938296E+08	5,429835E+08	9,727431E+08	1,302998E+09	1,302986E+09	9,727086E+08	5,429481E+08
1716	1,938062E+08	1,886653E+07	0,000000E+00	0,000000E+00	1,886647E+07	1,938029E+08	5,429327E+08	9,726652E+08	1,302924E+09	1,302953E+09	9,727314E+08	5,429919E+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°
1717	1,938435E+08	1,887749E+07	0,000000E+00	0,000000E+00	1,887567E+07	1,938377E+08	5,429894E+08	9,727266E+08	1,302946E+09	1,302918E+09	9,726657E+08	5,429390E+08
1718	1,938105E+08	1,887054E+07	0,000000E+00	0,000000E+00	1,887380E+07	1,938250E+08	5,429623E+08	9,727061E+08	1,302960E+09	1,302955E+09	9,726970E+08	5,429562E+08
1719	1,938211E+08	1,887176E+07	0,000000E+00	0,000000E+00	1,886791E+07	1,938054E+08	5,429441E+08	9,726948E+08	1,302954E+09	1,302965E+09	9,727258E+08	5,429813E+08
1720	1,938348E+08	1,887520E+07	0,000000E+00	0,000000E+00	1,887568E+07	1,938409E+08	5,429991E+08	9,727605E+08	1,303008E+09	1,302983E+09	9,726990E+08	5,429351E+08
1721	1,937950E+08	1,886355E+07	0,000000E+00	0,000000E+00	1,886523E+07	1,938058E+08	5,429504E+08	9,727182E+08	1,303013E+09	1,303044E+09	9,727803E+08	5,429926E+08
1722	1,938224E+08	1,886648E+07	0,000000E+00	0,000000E+00	1,886285E+07	1,938089E+08	5,429801E+08	9,727673E+08	1,303044E+09	1,303054E+09	9,727849E+08	5,429916E+08
1723	1,938150E+08	1,886381E+07	0,000000E+00	0,000000E+00	1,886587E+07	1,938248E+08	5,430088E+08	9,728244E+08	1,303114E+09	1,303090E+09	9,727697E+08	5,429585E+08
1724	1,937885E+08	1,885370E+07	0,000000E+00	0,000000E+00	1,885281E+07	1,937852E+08	5,429557E+08	9,727725E+08	1,303101E+09	1,303130E+09	9,728386E+08	5,430139E+08
1725	1,938223E+08	1,886212E+07	0,000000E+00	0,000000E+00	1,885817E+07	1,938086E+08	5,430050E+08	9,728348E+08	1,303133E+09	1,303120E+09	9,728069E+08	5,429809E+08
1726	1,937955E+08	1,885545E+07	0,000000E+00	0,000000E+00	1,885800E+07	1,938067E+08	5,429941E+08	9,728287E+08	1,303149E+09	1,303144E+09	9,728147E+08	5,429789E+08
1727	1,937934E+08	1,885316E+07	0,000000E+00	0,000000E+00	1,885171E+07	1,937853E+08	5,429659E+08	9,727897E+08	1,303105E+09	1,303124E+09	9,728332E+08	5,430092E+08
1728	1,938191E+08	1,886246E+07	0,000000E+00	0,000000E+00	1,886353E+07	1,938261E+08	5,430232E+08	9,728406E+08	1,303116E+09	1,303084E+09	9,727664E+08	5,429540E+08
1729	1,937847E+08	1,885433E+07	0,000000E+00	0,000000E+00	1,885888E+07	1,938038E+08	5,429758E+08	9,727800E+08	1,303081E+09	1,303084E+09	9,727865E+08	5,429837E+08
1730	1,938122E+08	1,886297E+07	0,000000E+00	0,000000E+00	1,886124E+07	1,938002E+08	5,429660E+08	9,727523E+08	1,303031E+09	1,303037E+09	9,727680E+08	5,429900E+08
1731	1,938273E+08	1,887035E+07	0,000000E+00	0,000000E+00	1,887241E+07	1,938327E+08	5,429915E+08	9,727609E+08	1,303015E+09	1,302986E+09	9,726950E+08	5,429356E+08
1732	1,938007E+08	1,886605E+07	0,000000E+00	0,000000E+00	1,886812E+07	1,938057E+08	5,429250E+08	9,726491E+08	1,302912E+09	1,302943E+09	9,727167E+08	5,429815E+08
1733	1,938428E+08	1,888016E+07	0,000000E+00	0,000000E+00	1,887687E+07	1,938283E+08	5,429569E+08	9,726593E+08	1,302867E+09	1,302865E+09	9,726554E+08	5,429538E+08
1734	1,938305E+08	1,887924E+07	0,000000E+00	0,000000E+00	1,888362E+07	1,938455E+08	5,429633E+08	9,726565E+08	1,302856E+09	1,302837E+09	9,726113E+08	5,429242E+08
1735	1,938209E+08	1,887815E+07	0,000000E+00	0,000000E+00	1,887774E+07	1,938168E+08	5,429176E+08	9,725976E+08	1,302807E+09	1,302822E+09	9,726363E+08	5,429609E+08
1736	1,938527E+08	1,888786E+07	0,000000E+00	0,000000E+00	1,888676E+07	1,938515E+08	5,429714E+08	9,726529E+08	1,302832E+09	1,302802E+09	9,725863E+08	5,429132E+08
1737	1,938188E+08	1,888016E+07	0,000000E+00	0,000000E+00	1,888400E+07	1,938359E+08	5,429378E+08	9,726237E+08	1,302840E+09	1,302840E+09	9,726232E+08	5,429364E+08
1738	1,938316E+08	1,888128E+07	0,000000E+00	0,000000E+00	1,887801E+07	1,938176E+08	5,429206E+08	9,726089E+08	1,302836E+09	1,302862E+09	9,726645E+08	5,429677E+08
1739	1,938470E+08	1,888477E+07	0,000000E+00	0,000000E+00	1,888493E+07	1,938516E+08	5,429782E+08	9,726812E+08	1,302887E+09	1,302869E+09	9,726326E+08	5,429232E+08
1740	1,938081E+08	1,887259E+07	0,000000E+00	0,000000E+00	1,887402E+07	1,938167E+08	5,429324E+08	9,726424E+08	1,302886E+09	1,302911E+09	9,726963E+08	5,429730E+08
1741	1,938356E+08	1,887633E+07	0,000000E+00	0,000000E+00	1,887141E+07	1,938165E+08	5,429581E+08	9,726954E+08	1,302930E+09	1,302930E+09	9,727005E+08	5,429710E+08
1742	1,938279E+08	1,887384E+07	0,000000E+00	0,000000E+00	1,887534E+07	1,938335E+08	5,429824E+08	9,727435E+08	1,302997E+09	1,302974E+09	9,726919E+08	5,429374E+08
1743	1,938013E+08	1,886421E+07	0,000000E+00	0,000000E+00	1,886274E+07	1,937965E+08	5,429358E+08	9,726989E+08	1,302984E+09	1,303009E+09	9,727545E+08	5,429853E+08
1744	1,938297E+08	1,887188E+07	0,000000E+00	0,000000E+00	1,886948E+07	1,938251E+08	5,429893E+08	9,727566E+08	1,303008E+09	1,302996E+09	9,727258E+08	5,429561E+08
1745	1,938032E+08	1,886469E+07	0,000000E+00	0,000000E+00	1,886897E+07	1,938226E+08	5,429794E+08	9,727523E+08	1,303020E+09	1,303009E+09	9,727279E+08	5,429563E+08
1746	1,938045E+08	1,886311E+07	0,000000E+00	0,000000E+00	1,886275E+07	1,937994E+08	5,429474E+08	9,727125E+08	1,302988E+09	1,303008E+09	9,727566E+08	5,429909E+08
1747	1,938336E+08	1,887355E+07	0,000000E+00	0,000000E+00	1,887382E+07	1,938363E+08	5,429981E+08	9,727577E+08	1,302995E+09	1,302965E+09	9,726902E+08	5,429384E+08
1748	1,938015E+08	1,886618E+07	0,000000E+00	0,000000E+00	1,886970E+07	1,938144E+08	5,429455E+08	9,726798E+08	1,302933E+09	1,302941E+09	9,726977E+08	5,429626E+08
1749	1,938294E+08	1,887609E+07	0,000000E+00	0,000000E+00	1,887282E+07	1,938106E+08	5,429319E+08	9,726460E+08	1,302876E+09	1,302886E+09	9,726758E+08	5,429705E+08
1750	1,938444E+08	1,888325E+07	0,000000E+00	0,000000E+00	1,888538E+07	1,938482E+08	5,429611E+08	9,726490E+08	1,302849E+09	1,302828E+09	9,725981E+08	5,429137E+08
1751	1,938169E+08	1,887873E+07	0,000000E+00	0,000000E+00	1,888109E+07	1,938236E+08	5,429085E+08	9,725600E+08	1,302753E+09	1,302775E+09	9,726040E+08	5,429476E+08
1752	1,938529E+08	1,889135E+07	0,000000E+00	0,000000E+00	1,888977E+07	1,938471E+08	5,429431E+08	9,725804E+08	1,302727E+09	1,302711E+09	9,725489E+08	5,429213E+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°
1753	1,938402E+08	1,888983E+07	0,000000E+00	0,000000E+00	1,889518E+07	1,938598E+08	5,429436E+08	9,725772E+08	1,302728E+09	1,302697E+09	9,725134E+08	5,428951E+08
1754	1,938323E+08	1,888897E+07	0,000000E+00	0,000000E+00	1,888866E+07	1,938285E+08	5,428921E+08	9,725137E+08	1,302693E+09	1,302717E+09	9,725643E+08	5,429403E+08
1755	1,938654E+08	1,889885E+07	0,000000E+00	0,000000E+00	1,889674E+07	1,938615E+08	5,429445E+08	9,725673E+08	1,302713E+09	1,302696E+09	9,725235E+08	5,429007E+08
1756	1,938330E+08	1,889070E+07	0,000000E+00	0,000000E+00	1,889387E+07	1,938477E+08	5,429137E+08	9,725331E+08	1,302704E+09	1,302713E+09	9,725487E+08	5,429204E+08
1757	1,938453E+08	1,889153E+07	0,000000E+00	0,000000E+00	1,888743E+07	1,938282E+08	5,429005E+08	9,725322E+08	1,302712E+09	1,302735E+09	9,725866E+08	5,429527E+08
1758	1,938606E+08	1,889440E+07	0,000000E+00	0,000000E+00	1,889441E+07	1,938619E+08	5,429566E+08	9,726066E+08	1,302772E+09	1,302751E+09	9,725551E+08	5,429054E+08
1759	1,938215E+08	1,888227E+07	0,000000E+00	0,000000E+00	1,888298E+07	1,938270E+08	5,429174E+08	9,725810E+08	1,302781E+09	1,302795E+09	9,726112E+08	5,429446E+08
1760	1,938433E+08	1,888524E+07	0,000000E+00	0,000000E+00	1,888115E+07	1,938285E+08	5,429403E+08	9,726262E+08	1,302822E+09	1,302820E+09	9,726249E+08	5,429466E+08
1761	1,938357E+08	1,888268E+07	0,000000E+00	0,000000E+00	1,888499E+07	1,938450E+08	5,429598E+08	9,726639E+08	1,302878E+09	1,302857E+09	9,726164E+08	5,429165E+08
1762	1,938112E+08	1,887354E+07	0,000000E+00	0,000000E+00	1,887315E+07	1,938108E+08	5,429155E+08	9,726159E+08	1,302866E+09	1,302903E+09	9,726869E+08	5,429680E+08
1763	1,938410E+08	1,888158E+07	0,000000E+00	0,000000E+00	1,887945E+07	1,938380E+08	5,429718E+08	9,726792E+08	1,302885E+09	1,302875E+09	9,726519E+08	5,429411E+08
1764	1,938172E+08	1,887482E+07	0,000000E+00	0,000000E+00	1,887891E+07	1,938344E+08	5,429586E+08	9,726703E+08	1,302887E+09	1,302870E+09	9,726371E+08	5,429346E+08
1765	1,938198E+08	1,887473E+07	0,000000E+00	0,000000E+00	1,887312E+07	1,938087E+08	5,429198E+08	9,726260E+08	1,302857E+09	1,302870E+09	9,726656E+08	5,429707E+08
1766	1,938504E+08	1,888580E+07	0,000000E+00	0,000000E+00	1,888520E+07	1,938462E+08	5,429634E+08	9,726546E+08	1,302850E+09	1,302826E+09	9,726015E+08	5,429176E+08
1767	1,938189E+08	1,887926E+07	0,000000E+00	0,000000E+00	1,888212E+07	1,938292E+08	5,429209E+08	9,725831E+08	1,302779E+09	1,302787E+09	9,725956E+08	5,429326E+08
1768	1,938411E+08	1,888817E+07	0,000000E+00	0,000000E+00	1,888641E+07	1,938305E+08	5,429120E+08	9,725477E+08	1,302717E+09	1,302727E+09	9,725736E+08	5,429412E+08
1769	1,938549E+08	1,889427E+07	0,000000E+00	0,000000E+00	1,889806E+07	1,938664E+08	5,429434E+08	9,725596E+08	1,302696E+09	1,302667E+09	9,724930E+08	5,428850E+08
1770	1,938292E+08	1,888995E+07	0,000000E+00	0,000000E+00	1,889334E+07	1,938400E+08	5,428898E+08	9,724790E+08	1,302631E+09	1,302648E+09	9,725146E+08	5,429220E+08
1771	1,938655E+08	1,890249E+07	0,000000E+00	0,000000E+00	1,890026E+07	1,938584E+08	5,429201E+08	9,725007E+08	1,302611E+09	1,302594E+09	9,724700E+08	5,429015E+08
1772	1,938551E+08	1,890129E+07	0,000000E+00	0,000000E+00	1,890539E+07	1,938694E+08	5,429151E+08	9,724869E+08	1,302597E+09	1,302571E+09	9,724332E+08	5,428755E+08
1773	1,938478E+08	1,890098E+07	0,000000E+00	0,000000E+00	1,889902E+07	1,938377E+08	5,428612E+08	9,724201E+08	1,302561E+09	1,302589E+09	9,724886E+08	5,429263E+08
1774	1,938810E+08	1,891012E+07	0,000000E+00	0,000000E+00	1,890754E+07	1,938735E+08	5,429167E+08	9,724704E+08	1,302573E+09	1,302567E+09	9,724475E+08	5,428865E+08
1775	1,938485E+08	1,890151E+07	0,000000E+00	0,000000E+00	1,890435E+07	1,938616E+08	5,429000E+08	9,724584E+08	1,302571E+09	1,302573E+09	9,724568E+08	5,428940E+08
1776	1,938544E+08	1,890068E+07	0,000000E+00	0,000000E+00	1,889783E+07	1,938424E+08	5,428853E+08	9,724618E+08	1,302594E+09	1,302607E+09	9,724985E+08	5,429255E+08
1777	1,938687E+08	1,890306E+07	0,000000E+00	0,000000E+00	1,890368E+07	1,938722E+08	5,429355E+08	9,725332E+08	1,302660E+09	1,302632E+09	9,724718E+08	5,428798E+08
1778	1,938312E+08	1,889146E+07	0,000000E+00	0,000000E+00	1,889252E+07	1,938379E+08	5,428940E+08	9,725049E+08	1,302681E+09	1,302701E+09	9,725444E+08	5,429233E+08
1779	1,938529E+08	1,889458E+07	0,000000E+00	0,000000E+00	1,889041E+07	1,938399E+08	5,429196E+08	9,725501E+08	1,302713E+09	1,302717E+09	9,725614E+08	5,429316E+08
1780	1,938476E+08	1,889223E+07	0,000000E+00	0,000000E+00	1,889462E+07	1,938583E+08	5,429424E+08	9,725837E+08	1,302750E+09	1,302731E+09	9,725394E+08	5,428990E+08
1781	1,938241E+08	1,888366E+07	0,000000E+00	0,000000E+00	1,888295E+07	1,938229E+08	5,428988E+08	9,725440E+08	1,302745E+09	1,302774E+09	9,726072E+08	5,429524E+08
1782	1,938554E+08	1,889193E+07	0,000000E+00	0,000000E+00	1,888962E+07	1,938491E+08	5,429494E+08	9,726001E+08	1,302765E+09	1,302752E+09	9,725718E+08	5,429235E+08
1783	1,938333E+08	1,888608E+07	0,000000E+00	0,000000E+00	1,888924E+07	1,938458E+08	5,429388E+08	9,725915E+08	1,302760E+09	1,302737E+09	9,725435E+08	5,429054E+08
1784	1,938308E+08	1,888583E+07	0,000000E+00	0,000000E+00	1,888500E+07	1,938225E+08	5,428937E+08	9,725339E+08	1,302721E+09	1,302735E+09	9,725756E+08	5,429441E+08
1785	1,938621E+08	1,889696E+07	0,000000E+00	0,000000E+00	1,889714E+07	1,938601E+08	5,429336E+08	9,725512E+08	1,302698E+09	1,302678E+09	9,725065E+08	5,428924E+08
1786	1,938321E+08	1,889087E+07	0,000000E+00	0,000000E+00	1,889497E+07	1,938468E+08	5,428965E+08	9,724826E+08	1,302631E+09	1,302646E+09	9,725035E+08	5,429080E+08
1787	1,938543E+08	1,889966E+07	0,000000E+00	0,000000E+00	1,889823E+07	1,938466E+08	5,428941E+08	9,724607E+08	1,302573E+09	1,302578E+09	9,724788E+08	5,429187E+08
1788	1,938701E+08	1,890593E+07	0,000000E+00	0,000000E+00	1,890918E+07	1,938793E+08	5,429203E+08	9,724694E+08	1,302551E+09	1,302514E+09	9,723912E+08	5,428588E+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	1,938453E+08	1,890265E+07	0,000000E+00	0,000000E+00	1,890432E+07	1,938502E+08	5,428618E+08	9,723896E+08	1,302498E+09	1,302510E+09	9,724242E+08	5,429002E+08
1790	1,938817E+08	1,891501E+07	0,000000E+00	0,000000E+00	1,891156E+07	1,938687E+08	5,428871E+08	9,724008E+08	1,302474E+09	1,302468E+09	9,723897E+08	5,428825E+08
1791	1,938718E+08	1,891396E+07	0,000000E+00	0,000000E+00	1,891705E+07	1,938835E+08	5,428930E+08	9,723960E+08	1,302457E+09	1,302435E+09	9,723444E+08	5,428497E+08
1792	1,938587E+08	1,891188E+07	0,000000E+00	0,000000E+00	1,891129E+07	1,938556E+08	5,428442E+08	9,723351E+08	1,302425E+09	1,302454E+09	9,724031E+08	5,429029E+08
1793	1,938907E+08	1,891947E+07	0,000000E+00	0,000000E+00	1,891814E+07	1,938875E+08	5,428994E+08	9,723936E+08	1,302446E+09	1,302434E+09	9,723614E+08	5,428643E+08
1794	1,938594E+08	1,891072E+07	0,000000E+00	0,000000E+00	1,891442E+07	1,938745E+08	5,428818E+08	9,723891E+08	1,302471E+09	1,302471E+09	9,723834E+08	5,428725E+08
1795	1,938644E+08	1,890948E+07	0,000000E+00	0,000000E+00	1,890629E+07	1,938520E+08	5,428670E+08	9,723942E+08	1,302494E+09	1,302509E+09	9,724328E+08	5,429080E+08
1796	1,938801E+08	1,891219E+07	0,000000E+00	0,000000E+00	1,891191E+07	1,938799E+08	5,429112E+08	9,724539E+08	1,302545E+09	1,302522E+09	9,724024E+08	5,428623E+08
1797	1,938438E+08	1,890149E+07	0,000000E+00	0,000000E+00	1,890153E+07	1,938477E+08	5,428708E+08	9,724254E+08	1,302564E+09	1,302587E+09	9,724758E+08	5,429092E+08
1798	1,938654E+08	1,890432E+07	0,000000E+00	0,000000E+00	1,890022E+07	1,938520E+08	5,428985E+08	9,724666E+08	1,302587E+09	1,302597E+09	9,724876E+08	5,429156E+08
1799	1,938616E+08	1,890244E+07	0,000000E+00	0,000000E+00	1,890457E+07	1,938720E+08	5,429321E+08	9,725160E+08	1,302626E+09	1,302595E+09	9,724473E+08	5,428721E+08
1800	1,938339E+08	1,889336E+07	0,000000E+00	0,000000E+00	1,889378E+07	1,938368E+08	5,428818E+08	9,724712E+08	1,302626E+09	1,302644E+09	9,725159E+08	5,429246E+08
1801	1,938655E+08	1,890180E+07	0,000000E+00	0,000000E+00	1,889974E+07	1,938585E+08	5,429216E+08	9,725129E+08	1,302637E+09	1,302624E+09	9,724837E+08	5,428982E+08
1802	1,938462E+08	1,889716E+07	0,000000E+00	0,000000E+00	1,890053E+07	1,938579E+08	5,429086E+08	9,724965E+08	1,302634E+09	1,302622E+09	9,724656E+08	5,428828E+08
1803	1,938437E+08	1,889723E+07	0,000000E+00	0,000000E+00	1,889641E+07	1,938367E+08	5,428683E+08	9,724359E+08	1,302577E+09	1,302601E+09	9,724938E+08	5,429249E+08
1804	1,938767E+08	1,890856E+07	0,000000E+00	0,000000E+00	1,890863E+07	1,938748E+08	5,429104E+08	9,724517E+08	1,302540E+09	1,302521E+09	9,724095E+08	5,428696E+08
1805	1,938480E+08	1,890322E+07	0,000000E+00	0,000000E+00	1,890685E+07	1,938617E+08	5,428760E+08	9,723950E+08	1,302486E+09	1,302490E+09	9,724047E+08	5,428854E+08
1806	1,938701E+08	1,891194E+07	0,000000E+00	0,000000E+00	1,891004E+07	1,938599E+08	5,428695E+08	9,723703E+08	1,302436E+09	1,302438E+09	9,723843E+08	5,428944E+08
1807	1,938867E+08	1,891874E+07	0,000000E+00	0,000000E+00	1,892085E+07	1,938929E+08	5,429009E+08	9,723840E+08	1,302413E+09	1,302372E+09	9,722929E+08	5,428284E+08
1808	1,938574E+08	1,891484E+07	0,000000E+00	0,000000E+00	1,891711E+07	1,938654E+08	5,428368E+08	9,722969E+08	1,302360E+09	1,302376E+09	9,723362E+08	5,428741E+08
1809	1,938931E+08	1,892612E+07	0,000000E+00	0,000000E+00	1,892355E+07	1,938830E+08	5,428598E+08	9,723015E+08	1,302329E+09	1,302330E+09	9,723037E+08	5,428608E+08
1810	1,938846E+08	1,892490E+07	0,000000E+00	0,000000E+00	1,892926E+07	1,939002E+08	5,428713E+08	9,723059E+08	1,302325E+09	1,302311E+09	9,722646E+08	5,428289E+08
1811	1,938700E+08	1,892165E+07	0,000000E+00	0,000000E+00	1,892173E+07	1,938700E+08	5,428292E+08	9,722605E+08	1,302300E+09	1,302326E+09	9,723220E+08	5,428836E+08
1812	1,939031E+08	1,892893E+07	0,000000E+00	0,000000E+00	1,892711E+07	1,938964E+08	5,428772E+08	9,723156E+08	1,302323E+09	1,302304E+09	9,722755E+08	5,428420E+08
1813	1,938725E+08	1,892102E+07	0,000000E+00	0,000000E+00	1,892324E+07	1,938821E+08	5,428572E+08	9,723124E+08	1,302356E+09	1,302353E+09	9,723082E+08	5,428543E+08
1814	1,938775E+08	1,891978E+07	0,000000E+00	0,000000E+00	1,891546E+07	1,938608E+08	5,428411E+08	9,723115E+08	1,302378E+09	1,302401E+09	9,723645E+08	5,428906E+08
1815	1,938936E+08	1,892278E+07	0,000000E+00	0,000000E+00	1,892161E+07	1,938930E+08	5,428969E+08	9,723779E+08	1,302421E+09	1,302399E+09	9,723225E+08	5,428382E+08
1816	1,938526E+08	1,891093E+07	0,000000E+00	0,000000E+00	1,891226E+07	1,938639E+08	5,428595E+08	9,723564E+08	1,302447E+09	1,302467E+09	9,723965E+08	5,428855E+08
1817	1,938736E+08	1,891281E+07	0,000000E+00	0,000000E+00	1,890993E+07	1,938644E+08	5,428828E+08	9,723988E+08	1,302475E+09	1,302479E+09	9,724080E+08	5,428939E+08
1818	1,938722E+08	1,891161E+07	0,000000E+00	0,000000E+00	1,891431E+07	1,938828E+08	5,429105E+08	9,724459E+08	1,302529E+09	1,302498E+09	9,723763E+08	5,428508E+08
1819	1,938446E+08	1,890286E+07	0,000000E+00	0,000000E+00	1,890311E+07	1,938466E+08	5,428595E+08	9,723939E+08	1,302513E+09	1,302536E+09	9,724467E+08	5,429077E+08
1820	1,938792E+08	1,891236E+07	0,000000E+00	0,000000E+00	1,890932E+07	1,938659E+08	5,428888E+08	9,724139E+08	1,302497E+09	1,302492E+09	9,724042E+08	5,428803E+08
1821	1,938619E+08	1,890910E+07	0,000000E+00	0,000000E+00	1,891160E+07	1,938704E+08	5,428801E+08	9,723945E+08	1,302480E+09	1,302475E+09	9,723807E+08	5,428659E+08
1822	1,938597E+08	1,890939E+07	0,000000E+00	0,000000E+00	1,890848E+07	1,938523E+08	5,428455E+08	9,723358E+08	1,302418E+09	1,302447E+09	9,723983E+08	5,429023E+08
1823	1,938930E+08	1,892096E+07	0,000000E+00	0,000000E+00	1,892068E+07	1,938915E+08	5,428971E+08	9,723665E+08	1,302386E+09	1,302356E+09	9,722966E+08	5,428360E+08
1824	1,938600E+08	1,891523E+07	0,000000E+00	0,000000E+00	1,891982E+07	1,938785E+08	5,428572E+08	9,723113E+08	1,302349E+09	1,302341E+09	9,722979E+08	5,428512E+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	1,938814E+08	1,892347E+07	0,000000E+00	0,000000E+00	1,892208E+07	1,938727E+08	5,428420E+08	9,722770E+08	1,302298E+09	1,302300E+09	9,722892E+08	5,428657E+08
1826	1,938995E+08	1,893079E+07	0,000000E+00	0,000000E+00	1,893350E+07	1,939075E+08	5,428719E+08	9,722895E+08	1,302286E+09	1,302253E+09	9,722136E+08	5,428060E+08
1827	1,938700E+08	1,892642E+07	0,000000E+00	0,000000E+00	1,892923E+07	1,938817E+08	5,428161E+08	9,722058E+08	1,302221E+09	1,302247E+09	9,722593E+08	5,428575E+08
1828	1,939071E+08	1,893694E+07	0,000000E+00	0,000000E+00	1,893428E+07	1,938954E+08	5,428369E+08	9,722103E+08	1,302184E+09	1,302188E+09	9,722189E+08	5,428432E+08
1829	1,939001E+08	1,893607E+07	0,000000E+00	0,000000E+00	1,893955E+07	1,939119E+08	5,428506E+08	9,722258E+08	1,302195E+09	1,302176E+09	9,721831E+08	5,428127E+08
1830	1,938850E+08	1,893239E+07	0,000000E+00	0,000000E+00	1,893126E+07	1,938793E+08	5,428047E+08	9,721784E+08	1,302179E+09	1,302206E+09	9,722421E+08	5,428633E+08
1831	1,939175E+08	1,893976E+07	0,000000E+00	0,000000E+00	1,893625E+07	1,939059E+08	5,428582E+08	9,722391E+08	1,302201E+09	1,302181E+09	9,721914E+08	5,428159E+08
1832	1,938827E+08	1,893127E+07	0,000000E+00	0,000000E+00	1,893370E+07	1,938945E+08	5,428362E+08	9,722348E+08	1,302239E+09	1,302237E+09	9,722302E+08	5,428295E+08
1833	1,938857E+08	1,892879E+07	0,000000E+00	0,000000E+00	1,892541E+07	1,938735E+08	5,428205E+08	9,722310E+08	1,302256E+09	1,302283E+09	9,722890E+08	5,428696E+08
1834	1,939028E+08	1,893186E+07	0,000000E+00	0,000000E+00	1,893200E+07	1,939076E+08	5,428816E+08	9,723093E+08	1,302315E+09	1,302294E+09	9,722531E+08	5,428191E+08
1835	1,938620E+08	1,891949E+07	0,000000E+00	0,000000E+00	1,892151E+07	1,938764E+08	5,428472E+08	9,722939E+08	1,302341E+09	1,302356E+09	9,723247E+08	5,428677E+08
1836	1,938847E+08	1,892175E+07	0,000000E+00	0,000000E+00	1,891826E+07	1,938704E+08	5,428568E+08	9,723203E+08	1,302359E+09	1,302361E+09	9,723301E+08	5,428745E+08
1837	1,938861E+08	1,892219E+07	0,000000E+00	0,000000E+00	1,892344E+07	1,938898E+08	5,428809E+08	9,723582E+08	1,302403E+09	1,302377E+09	9,723032E+08	5,428349E+08
1838	1,938595E+08	1,891425E+07	0,000000E+00	0,000000E+00	1,891367E+07	1,938574E+08	5,428298E+08	9,722957E+08	1,302373E+09	1,302406E+09	9,723676E+08	5,428892E+08
1839	1,938948E+08	1,892439E+07	0,000000E+00	0,000000E+00	1,892093E+07	1,938820E+08	5,428713E+08	9,723204E+08	1,302341E+09	1,302338E+09	9,723064E+08	5,428536E+08
1840	1,938740E+08	1,892054E+07	0,000000E+00	0,000000E+00	1,892464E+07	1,938900E+08	5,428669E+08	9,723115E+08	1,302334E+09	1,302321E+09	9,722775E+08	5,428355E+08
1841	1,938703E+08	1,892009E+07	0,000000E+00	0,000000E+00	1,892069E+07	1,938687E+08	5,428286E+08	9,722557E+08	1,302283E+09	1,302300E+09	9,722966E+08	5,428719E+08
1842	1,939043E+08	1,893214E+07	0,000000E+00	0,000000E+00	1,893281E+07	1,939063E+08	5,428754E+08	9,722875E+08	1,302271E+09	1,302235E+09	9,722085E+08	5,428086E+08
1843	1,938716E+08	1,892654E+07	0,000000E+00	0,000000E+00	1,893134E+07	1,938918E+08	5,428349E+08	9,722279E+08	1,302225E+09	1,302220E+09	9,722186E+08	5,428304E+08
1844	1,938953E+08	1,893513E+07	0,000000E+00	0,000000E+00	1,893311E+07	1,938822E+08	5,428083E+08	9,721744E+08	1,302153E+09	1,302165E+09	9,722073E+08	5,428481E+08
1845	1,939160E+08	1,894326E+07	0,000000E+00	0,000000E+00	1,894513E+07	1,939202E+08	5,428424E+08	9,721848E+08	1,302129E+09	1,302108E+09	9,721332E+08	5,427930E+08
1846	1,938877E+08	1,893888E+07	0,000000E+00	0,000000E+00	1,894100E+07	1,938959E+08	5,427924E+08	9,721084E+08	1,302067E+09	1,302098E+09	9,721705E+08	5,428400E+08
1847	1,939245E+08	1,894895E+07	0,000000E+00	0,000000E+00	1,894512E+07	1,939085E+08	5,428184E+08	9,721239E+08	1,302036E+09	1,302031E+09	9,721152E+08	5,428144E+08
1848	1,939126E+08	1,894732E+07	0,000000E+00	0,000000E+00	1,895069E+07	1,939245E+08	5,428286E+08	9,721439E+08	1,302066E+09	1,302040E+09	9,720867E+08	5,427818E+08
1849	1,938952E+08	1,894258E+07	0,000000E+00	0,000000E+00	1,894144E+07	1,938900E+08	5,427798E+08	9,720955E+08	1,302057E+09	1,302084E+09	9,721582E+08	5,428362E+08
1850	1,939267E+08	1,894976E+07	0,000000E+00	0,000000E+00	1,894681E+07	1,939184E+08	5,428348E+08	9,721626E+08	1,302097E+09	1,302079E+09	9,721225E+08	5,427946E+08
1851	1,938914E+08	1,894044E+07	0,000000E+00	0,000000E+00	1,894375E+07	1,939098E+08	5,428248E+08	9,721690E+08	1,302132E+09	1,302132E+09	9,721650E+08	5,428134E+08
1852	1,938954E+08	1,893721E+07	0,000000E+00	0,000000E+00	1,893423E+07	1,938839E+08	5,428041E+08	9,721628E+08	1,302144E+09	1,302168E+09	9,722181E+08	5,428540E+08
1853	1,939146E+08	1,894095E+07	0,000000E+00	0,000000E+00	1,894066E+07	1,939170E+08	5,428634E+08	9,722427E+08	1,302207E+09	1,302185E+09	9,721878E+08	5,428073E+08
1854	1,938756E+08	1,892919E+07	0,000000E+00	0,000000E+00	1,893017E+07	1,938845E+08	5,428242E+08	9,722184E+08	1,302230E+09	1,302248E+09	9,722562E+08	5,428521E+08
1855	1,938991E+08	1,893221E+07	0,000000E+00	0,000000E+00	1,892739E+07	1,938790E+08	5,428331E+08	9,722358E+08	1,302230E+09	1,302235E+09	9,722488E+08	5,428518E+08
1856	1,938980E+08	1,893293E+07	0,000000E+00	0,000000E+00	1,893451E+07	1,939027E+08	5,428556E+08	9,722678E+08	1,302267E+09	1,302244E+09	9,722165E+08	5,428101E+08
1857	1,938704E+08	1,892451E+07	0,000000E+00	0,000000E+00	1,892530E+07	1,938732E+08	5,428085E+08	9,722036E+08	1,302227E+09	1,302261E+09	9,722738E+08	5,428629E+08
1858	1,939054E+08	1,893490E+07	0,000000E+00	0,000000E+00	1,893315E+07	1,938992E+08	5,428550E+08	9,722434E+08	1,302214E+09	1,302200E+09	9,722128E+08	5,428269E+08
1859	1,938847E+08	1,893089E+07	0,000000E+00	0,000000E+00	1,893619E+07	1,939064E+08	5,428539E+08	9,722406E+08	1,302210E+09	1,302183E+09	9,721836E+08	5,428094E+08
1860	1,938824E+08	1,893104E+07	0,000000E+00	0,000000E+00	1,893118E+07	1,938776E+08	5,428001E+08	9,721665E+08	1,302150E+09	1,302164E+09	9,722052E+08	5,428476E+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	1,939194E+08	1,894452E+07	0,000000E+00	0,000000E+00	1,894389E+07	1,939163E+08	5,428434E+08	9,721879E+08	1,302128E+09	1,302102E+09	9,721309E+08	5,427930E+08
1862	1,938896E+08	1,893999E+07	0,000000E+00	0,000000E+00	1,894345E+07	1,939041E+08	5,428018E+08	9,721189E+08	1,302070E+09	1,302080E+09	9,721359E+08	5,428138E+08
1863	1,939137E+08	1,894854E+07	0,000000E+00	0,000000E+00	1,894552E+07	1,938979E+08	5,427845E+08	9,720698E+08	1,301988E+09	1,302004E+09	9,721089E+08	5,428246E+08
1864	1,939312E+08	1,895576E+07	0,000000E+00	0,000000E+00	1,895808E+07	1,939375E+08	5,428226E+08	9,720942E+08	1,301979E+09	1,301951E+09	9,720304E+08	5,427653E+08
1865	1,939006E+08	1,894999E+07	0,000000E+00	0,000000E+00	1,895283E+07	1,939104E+08	5,427712E+08	9,720235E+08	1,301930E+09	1,301952E+09	9,720705E+08	5,428109E+08
1866	1,939357E+08	1,895958E+07	0,000000E+00	0,000000E+00	1,895629E+07	1,939214E+08	5,427963E+08	9,720490E+08	1,301925E+09	1,301913E+09	9,720305E+08	5,427879E+08
1867	1,939223E+08	1,895731E+07	0,000000E+00	0,000000E+00	1,896103E+07	1,939374E+08	5,428101E+08	9,720709E+08	1,301954E+09	1,301928E+09	9,720132E+08	5,427606E+08
1868	1,939052E+08	1,895210E+07	0,000000E+00	0,000000E+00	1,895084E+07	1,938995E+08	5,427541E+08	9,720117E+08	1,301937E+09	1,301970E+09	9,720865E+08	5,428179E+08
1869	1,939377E+08	1,895941E+07	0,000000E+00	0,000000E+00	1,895656E+07	1,939314E+08	5,428163E+08	9,720829E+08	1,301971E+09	1,301964E+09	9,720588E+08	5,427838E+08
1870	1,939049E+08	1,895031E+07	0,000000E+00	0,000000E+00	1,895321E+07	1,939218E+08	5,428088E+08	9,720983E+08	1,302016E+09	1,302015E+09	9,720931E+08	5,427986E+08
1871	1,939089E+08	1,894683E+07	0,000000E+00	0,000000E+00	1,894310E+07	1,938942E+08	5,427879E+08	9,720938E+08	1,302027E+09	1,302041E+09	9,721326E+08	5,428310E+08
1872	1,939260E+08	1,895068E+07	0,000000E+00	0,000000E+00	1,895012E+07	1,939259E+08	5,428399E+08	9,721679E+08	1,302095E+09	1,302067E+09	9,721045E+08	5,427821E+08
1873	1,938862E+08	1,893869E+07	0,000000E+00	0,000000E+00	1,893992E+07	1,938943E+08	5,427979E+08	9,721343E+08	1,302107E+09	1,302128E+09	9,721759E+08	5,428283E+08
1874	1,939093E+08	1,894226E+07	0,000000E+00	0,000000E+00	1,893838E+07	1,938924E+08	5,428088E+08	9,721536E+08	1,302113E+09	1,302118E+09	9,721725E+08	5,428301E+08
1875	1,939079E+08	1,894262E+07	0,000000E+00	0,000000E+00	1,894556E+07	1,939199E+08	5,428433E+08	9,721932E+08	1,302142E+09	1,302117E+09	9,721363E+08	5,427898E+08
1876	1,938815E+08	1,893428E+07	0,000000E+00	0,000000E+00	1,893562E+07	1,938859E+08	5,427898E+08	9,721262E+08	1,302099E+09	1,302126E+09	9,721849E+08	5,428400E+08
1877	1,939180E+08	1,894552E+07	0,000000E+00	0,000000E+00	1,894357E+07	1,939110E+08	5,428330E+08	9,721623E+08	1,302086E+09	1,302071E+09	9,721316E+08	5,428089E+08
1878	1,939010E+08	1,894298E+07	0,000000E+00	0,000000E+00	1,894681E+07	1,939166E+08	5,428270E+08	9,721520E+08	1,302081E+09	1,302056E+09	9,721013E+08	5,427902E+08
1879	1,938996E+08	1,894394E+07	0,000000E+00	0,000000E+00	1,894254E+07	1,938888E+08	5,427705E+08	9,720649E+08	1,301999E+09	1,302017E+09	9,721124E+08	5,428242E+08
1880	1,939348E+08	1,895746E+07	0,000000E+00	0,000000E+00	1,895666E+07	1,939307E+08	5,428123E+08	9,720804E+08	1,301970E+09	1,301951E+09	9,720348E+08	5,427690E+08
1881	1,939047E+08	1,895234E+07	0,000000E+00	0,000000E+00	1,895680E+07	1,939218E+08	5,427776E+08	9,720144E+08	1,301906E+09	1,301919E+09	9,720356E+08	5,427886E+08
1882	1,939275E+08	1,896038E+07	0,000000E+00	0,000000E+00	1,895860E+07	1,939150E+08	5,427636E+08	9,719833E+08	1,301848E+09	1,301854E+09	9,720086E+08	5,427969E+08
1883	1,939429E+08	1,896656E+07	0,000000E+00	0,000000E+00	1,896979E+07	1,939533E+08	5,428062E+08	9,720174E+08	1,301850E+09	1,301810E+09	9,719330E+08	5,427374E+08
1884	1,939121E+08	1,896057E+07	0,000000E+00	0,000000E+00	1,896306E+07	1,939198E+08	5,427438E+08	9,719369E+08	1,301802E+09	1,301819E+09	9,719789E+08	5,427835E+08
1885	1,939471E+08	1,897035E+07	0,000000E+00	0,000000E+00	1,896649E+07	1,939322E+08	5,427701E+08	9,719613E+08	1,301797E+09	1,301794E+09	9,719591E+08	5,427712E+08
1886	1,939365E+08	1,896866E+07	0,000000E+00	0,000000E+00	1,897139E+07	1,939500E+08	5,427881E+08	9,719871E+08	1,301829E+09	1,301812E+09	9,719435E+08	5,427459E+08
1887	1,939193E+08	1,896277E+07	0,000000E+00	0,000000E+00	1,896094E+07	1,939139E+08	5,427398E+08	9,719349E+08	1,301809E+09	1,301841E+09	9,720067E+08	5,427983E+08
1888	1,939491E+08	1,896916E+07	0,000000E+00	0,000000E+00	1,896664E+07	1,939447E+08	5,428017E+08	9,720163E+08	1,301861E+09	1,301845E+09	9,719784E+08	5,427628E+08
1889	1,939162E+08	1,895929E+07	0,000000E+00	0,000000E+00	1,896251E+07	1,939323E+08	5,427895E+08	9,720295E+08	1,301911E+09	1,301905E+09	9,720158E+08	5,427763E+08
1890	1,939187E+08	1,895571E+07	0,000000E+00	0,000000E+00	1,895234E+07	1,939030E+08	5,427641E+08	9,720266E+08	1,301934E+09	1,301944E+09	9,720633E+08	5,428099E+08
1891	1,939351E+08	1,895949E+07	0,000000E+00	0,000000E+00	1,895929E+07	1,939359E+08	5,428178E+08	9,720940E+08	1,301987E+09	1,301962E+09	9,720362E+08	5,427638E+08
1892	1,938964E+08	1,894782E+07	0,000000E+00	0,000000E+00	1,894918E+07	1,939037E+08	5,427702E+08	9,720444E+08	1,301978E+09	1,302004E+09	9,720986E+08	5,428092E+08
1893	1,939211E+08	1,895223E+07	0,000000E+00	0,000000E+00	1,894875E+07	1,939069E+08	5,427899E+08	9,720664E+08	1,301972E+09	1,301986E+09	9,720976E+08	5,428158E+08
1894	1,939233E+08	1,895371E+07	0,000000E+00	0,000000E+00	1,895602E+07	1,939335E+08	5,428254E+08	9,721124E+08	1,302007E+09	1,301978E+09	9,720483E+08	5,427698E+08
1895	1,938970E+08	1,894582E+07	0,000000E+00	0,000000E+00	1,894625E+07	1,938984E+08	5,427686E+08	9,720411E+08	1,301962E+09	1,301979E+09	9,720839E+08	5,428114E+08
1896	1,939313E+08	1,895746E+07	0,000000E+00	0,000000E+00	1,895506E+07	1,939229E+08	5,428055E+08	9,720706E+08	1,301952E+09	1,301933E+09	9,720342E+08	5,427802E+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												
1897	1,939147E+08	1,895502E+07	0,000000E+00	0,000000E+00	1,895909E+07	1,939299E+08	5,427964E+08	9,720501E+08	1,301934E+09	1,301915E+09	9,720081E+08	5,427638E+08
1898	1,939129E+08	1,895628E+07	0,000000E+00	0,000000E+00	1,895603E+07	1,939058E+08	5,427446E+08	9,719704E+08	1,301858E+09	1,301875E+09	9,720215E+08	5,428004E+08
1899	1,939474E+08	1,896887E+07	0,000000E+00	0,000000E+00	1,896965E+07	1,939500E+08	5,427968E+08	9,719940E+08	1,301824E+09	1,301802E+09	9,719405E+08	5,427458E+08
1900	1,939178E+08	1,896346E+07	0,000000E+00	0,000000E+00	1,896865E+07	1,939362E+08	5,427557E+08	9,719266E+08	1,301763E+09	1,301768E+09	9,719361E+08	5,427626E+08
1901	1,939409E+08	1,897161E+07	0,000000E+00	0,000000E+00	1,896982E+07	1,939290E+08	5,427414E+08	9,718949E+08	1,301710E+09	1,301719E+09	9,719238E+08	5,427765E+08
1902	1,939587E+08	1,897856E+07	0,000000E+00	0,000000E+00	1,898014E+07	1,939637E+08	5,427803E+08	9,719297E+08	1,301721E+09	1,301685E+09	9,718517E+08	5,427172E+08
1903	1,939275E+08	1,897254E+07	0,000000E+00	0,000000E+00	1,897356E+07	1,939311E+08	5,427173E+08	9,718450E+08	1,301666E+09	1,301686E+09	9,718927E+08	5,427600E+08
1904	1,939597E+08	1,898159E+07	0,000000E+00	0,000000E+00	1,897755E+07	1,939458E+08	5,427463E+08	9,718725E+08	1,301666E+09	1,301666E+09	9,718749E+08	5,427491E+08
1905	1,939489E+08	1,897901E+07	0,000000E+00	0,000000E+00	1,898245E+07	1,939650E+08	5,427709E+08	9,719070E+08	1,301701E+09	1,301684E+09	9,718623E+08	5,427250E+08
1906	1,939304E+08	1,897234E+07	0,000000E+00	0,000000E+00	1,897146E+07	1,939272E+08	5,427248E+08	9,718738E+08	1,301706E+09	1,301725E+09	9,719275E+08	5,427761E+08
1907	1,939583E+08	1,897769E+07	0,000000E+00	0,000000E+00	1,897568E+07	1,939553E+08	5,427855E+08	9,719537E+08	1,301761E+09	1,301739E+09	9,719046E+08	5,427420E+08
1908	1,939263E+08	1,896808E+07	0,000000E+00	0,000000E+00	1,897065E+07	1,939378E+08	5,427609E+08	9,719491E+08	1,301800E+09	1,301798E+09	9,719438E+08	5,427556E+08
1909	1,939296E+08	1,896507E+07	0,000000E+00	0,000000E+00	1,896135E+07	1,939123E+08	5,427360E+08	9,719356E+08	1,301807E+09	1,301835E+09	9,720019E+08	5,427967E+08
1910	1,939493E+08	1,897009E+07	0,000000E+00	0,000000E+00	1,896880E+07	1,939474E+08	5,427950E+08	9,720075E+08	1,301859E+09	1,301842E+09	9,719656E+08	5,427495E+08
1911	1,939110E+08	1,895840E+07	0,000000E+00	0,000000E+00	1,895946E+07	1,939189E+08	5,427555E+08	9,719642E+08	1,301841E+09	1,301863E+09	9,720081E+08	5,427855E+08
1912	1,939328E+08	1,896253E+07	0,000000E+00	0,000000E+00	1,895954E+07	1,939214E+08	5,427745E+08	9,719938E+08	1,301850E+09	1,301852E+09	9,720019E+08	5,427886E+08
1913	1,939355E+08	1,896406E+07	0,000000E+00	0,000000E+00	1,896686E+07	1,939470E+08	5,428067E+08	9,720355E+08	1,301887E+09	1,301851E+09	9,719585E+08	5,427428E+08
1914	1,939085E+08	1,895668E+07	0,000000E+00	0,000000E+00	1,895765E+07	1,939105E+08	5,427451E+08	9,719642E+08	1,301848E+09	1,301859E+09	9,719998E+08	5,427855E+08
1915	1,939420E+08	1,896812E+07	0,000000E+00	0,000000E+00	1,896657E+07	1,939365E+08	5,427813E+08	9,719826E+08	1,301821E+09	1,301806E+09	9,719518E+08	5,427584E+08
1916	1,939274E+08	1,896621E+07	0,000000E+00	0,000000E+00	1,897082E+07	1,939431E+08	5,427665E+08	9,719456E+08	1,301782E+09	1,301770E+09	9,719179E+08	5,427418E+08
1917	1,939271E+08	1,896797E+07	0,000000E+00	0,000000E+00	1,896852E+07	1,939231E+08	5,427224E+08	9,718687E+08	1,301697E+09	1,301726E+09	9,719349E+08	5,427830E+08
1918	1,939650E+08	1,898137E+07	0,000000E+00	0,000000E+00	1,898117E+07	1,939634E+08	5,427741E+08	9,719030E+08	1,301677E+09	1,301649E+09	9,718434E+08	5,427239E+08
1919	1,939353E+08	1,897617E+07	0,000000E+00	0,000000E+00	1,898006E+07	1,939488E+08	5,427299E+08	9,718316E+08	1,301613E+09	1,301611E+09	9,718291E+08	5,427323E+08
1920	1,939553E+08	1,898417E+07	0,000000E+00	0,000000E+00	1,898131E+07	1,939408E+08	5,427130E+08	9,717997E+08	1,301571E+09	1,301578E+09	9,718242E+08	5,427466E+08
1921	1,939723E+08	1,899067E+07	0,000000E+00	0,000000E+00	1,899201E+07	1,939774E+08	5,427534E+08	9,718328E+08	1,301580E+09	1,301551E+09	9,717649E+08	5,426924E+08
1922	1,939397E+08	1,898407E+07	0,000000E+00	0,000000E+00	1,898576E+07	1,939472E+08	5,426988E+08	9,717672E+08	1,301544E+09	1,301562E+09	9,718121E+08	5,427373E+08
1923	1,939693E+08	1,899123E+07	0,000000E+00	0,000000E+00	1,898866E+07	1,939626E+08	5,427361E+08	9,718066E+08	1,301552E+09	1,301548E+09	9,717982E+08	5,427294E+08
1924	1,939594E+08	1,898814E+07	0,000000E+00	0,000000E+00	1,899194E+07	1,939750E+08	5,427504E+08	9,718351E+08	1,301591E+09	1,301570E+09	9,717858E+08	5,427049E+08
1925	1,939414E+08	1,898141E+07	0,000000E+00	0,000000E+00	1,898048E+07	1,939375E+08	5,427037E+08	9,717970E+08	1,301595E+09	1,301625E+09	9,718667E+08	5,427627E+08
1926	1,939723E+08	1,898768E+07	0,000000E+00	0,000000E+00	1,898380E+07	1,939612E+08	5,427585E+08	9,718729E+08	1,301648E+09	1,301634E+09	9,718408E+08	5,427279E+08
1927	1,939403E+08	1,897829E+07	0,000000E+00	0,000000E+00	1,897965E+07	1,939469E+08	5,427335E+08	9,718583E+08	1,301667E+09	1,301672E+09	9,718655E+08	5,427355E+08
1928	1,939413E+08	1,897517E+07	0,000000E+00	0,000000E+00	1,897156E+07	1,939262E+08	5,427163E+08	9,718497E+08	1,301675E+09	1,301705E+09	9,719160E+08	5,427739E+08
1929	1,939608E+08	1,897985E+07	0,000000E+00	0,000000E+00	1,897955E+07	1,939630E+08	5,427812E+08	9,719297E+08	1,301727E+09	1,301707E+09	9,718773E+08	5,427252E+08
1930	1,939217E+08	1,896811E+07	0,000000E+00	0,000000E+00	1,897038E+07	1,939336E+08	5,427441E+08	9,719063E+08	1,301735E+09	1,301736E+09	9,719165E+08	5,427565E+08
1931	1,939409E+08	1,897168E+07	0,000000E+00	0,000000E+00	1,896991E+07	1,939344E+08	5,427591E+08	9,719280E+08	1,301744E+09	1,301734E+09	9,719161E+08	5,427611E+08
1932	1,939451E+08	1,897403E+07	0,000000E+00	0,000000E+00	1,897679E+07	1,939553E+08	5,427773E+08	9,719471E+08	1,301762E+09	1,301730E+09	9,718768E+08	5,427186E+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°
1933	1,939206E+08	1,896777E+07	0,000000E+00	0,000000E+00	1,896909E+07	1,939241E+08	5,427172E+08	9,718627E+08	1,301704E+09	1,301735E+09	9,719298E+08	5,427709E+08
1934	1,939590E+08	1,898061E+07	0,000000E+00	0,000000E+00	1,897790E+07	1,939494E+08	5,427550E+08	9,718827E+08	1,301672E+09	1,301667E+09	9,718714E+08	5,427437E+08
1935	1,939457E+08	1,897889E+07	0,000000E+00	0,000000E+00	1,898284E+07	1,939587E+08	5,427437E+08	9,718468E+08	1,301622E+09	1,301610E+09	9,718171E+08	5,427181E+08
1936	1,939434E+08	1,898064E+07	0,000000E+00	0,000000E+00	1,898075E+07	1,939381E+08	5,426998E+08	9,717765E+08	1,301551E+09	1,301570E+09	9,718275E+08	5,427544E+08
1937	1,939804E+08	1,899361E+07	0,000000E+00	0,000000E+00	1,899310E+07	1,939768E+08	5,427490E+08	9,718092E+08	1,301534E+09	1,301504E+09	9,717444E+08	5,426952E+08
1938	1,939489E+08	1,898846E+07	0,000000E+00	0,000000E+00	1,899235E+07	1,939621E+08	5,427063E+08	9,717493E+08	1,301485E+09	1,301476E+09	9,717358E+08	5,427029E+08
1939	1,939654E+08	1,899514E+07	0,000000E+00	0,000000E+00	1,899323E+07	1,939560E+08	5,426914E+08	9,717139E+08	1,301441E+09	1,301450E+09	9,717398E+08	5,427221E+08
1940	1,939830E+08	1,900141E+07	0,000000E+00	0,000000E+00	1,900335E+07	1,939913E+08	5,427299E+08	9,717403E+08	1,301441E+09	1,301419E+09	9,716836E+08	5,426721E+08
1941	1,939520E+08	1,899453E+07	0,000000E+00	0,000000E+00	1,899710E+07	1,939633E+08	5,426821E+08	9,716820E+08	1,301409E+09	1,301438E+09	9,717411E+08	5,427228E+08
1942	1,939842E+08	1,900180E+07	0,000000E+00	0,000000E+00	1,899795E+07	1,939718E+08	5,427154E+08	9,717325E+08	1,301436E+09	1,301429E+09	9,717228E+08	5,427135E+08
1943	1,939744E+08	1,899868E+07	0,000000E+00	0,000000E+00	1,900093E+07	1,939830E+08	5,427238E+08	9,717513E+08	1,301467E+09	1,301445E+09	9,717029E+08	5,426823E+08
1944	1,939538E+08	1,899169E+07	0,000000E+00	0,000000E+00	1,898967E+07	1,939459E+08	5,426765E+08	9,717111E+08	1,301472E+09	1,301504E+09	9,717847E+08	5,427396E+08
1945	1,939838E+08	1,899764E+07	0,000000E+00	0,000000E+00	1,899376E+07	1,939724E+08	5,427345E+08	9,717859E+08	1,301519E+09	1,301513E+09	9,717653E+08	5,427074E+08
1946	1,939508E+08	1,898801E+07	0,000000E+00	0,000000E+00	1,899038E+07	1,939621E+08	5,427216E+08	9,717932E+08	1,301553E+09	1,301549E+09	9,717847E+08	5,427111E+08
1947	1,939485E+08	1,898352E+07	0,000000E+00	0,000000E+00	1,898191E+07	1,939430E+08	5,427109E+08	9,717943E+08	1,301570E+09	1,301588E+09	9,718352E+08	5,427489E+08
1948	1,939685E+08	1,898837E+07	0,000000E+00	0,000000E+00	1,898884E+07	1,939739E+08	5,427647E+08	9,718639E+08	1,301622E+09	1,301594E+09	9,717982E+08	5,427018E+08
1949	1,939319E+08	1,897743E+07	0,000000E+00	0,000000E+00	1,897999E+07	1,939449E+08	5,427239E+08	9,718293E+08	1,301625E+09	1,301636E+09	9,718531E+08	5,427401E+08
1950	1,939549E+08	1,898252E+07	0,000000E+00	0,000000E+00	1,897901E+07	1,939408E+08	5,427300E+08	9,718426E+08	1,301625E+09	1,301624E+09	9,718492E+08	5,427474E+08
1951	1,939613E+08	1,898578E+07	0,000000E+00	0,000000E+00	1,898727E+07	1,939652E+08	5,427439E+08	9,718414E+08	1,301612E+09	1,301591E+09	9,717928E+08	5,427000E+08
1952	1,939365E+08	1,898017E+07	0,000000E+00	0,000000E+00	1,898128E+07	1,939397E+08	5,426920E+08	9,717585E+08	1,301543E+09	1,301579E+09	9,718320E+08	5,427491E+08
1953	1,939755E+08	1,899297E+07	0,000000E+00	0,000000E+00	1,899065E+07	1,939656E+08	5,427330E+08	9,717837E+08	1,301510E+09	1,301504E+09	9,717689E+08	5,427183E+08
1954	1,939608E+08	1,899124E+07	0,000000E+00	0,000000E+00	1,899575E+07	1,939746E+08	5,427254E+08	9,717666E+08	1,301481E+09	1,301451E+09	9,717073E+08	5,426850E+08
1955	1,939548E+08	1,899221E+07	0,000000E+00	0,000000E+00	1,899321E+07	1,939539E+08	5,426800E+08	9,716929E+08	1,301417E+09	1,301427E+09	9,717245E+08	5,427205E+08
1956	1,939907E+08	1,900512E+07	0,000000E+00	0,000000E+00	1,900472E+07	1,939882E+08	5,427185E+08	9,717099E+08	1,301390E+09	1,301364E+09	9,716508E+08	5,426669E+08
1957	1,939610E+08	1,900033E+07	0,000000E+00	0,000000E+00	1,900493E+07	1,939788E+08	5,426827E+08	9,716503E+08	1,301341E+09	1,301349E+09	9,716609E+08	5,426852E+08
1958	1,939804E+08	1,900713E+07	0,000000E+00	0,000000E+00	1,900457E+07	1,939702E+08	5,426718E+08	9,716281E+08	1,301306E+09	1,301320E+09	9,716628E+08	5,427067E+08
1959	1,939984E+08	1,901277E+07	0,000000E+00	0,000000E+00	1,901430E+07	1,940049E+08	5,427095E+08	9,716560E+08	1,301305E+09	1,301281E+09	9,715973E+08	5,426525E+08
1960	1,939666E+08	1,900563E+07	0,000000E+00	0,000000E+00	1,900750E+07	1,939756E+08	5,426626E+08	9,716051E+08	1,301288E+09	1,301311E+09	9,716546E+08	5,427013E+08
1961	1,939977E+08	1,901207E+07	0,000000E+00	0,000000E+00	1,900755E+07	1,939804E+08	5,426898E+08	9,716499E+08	1,301316E+09	1,301313E+09	9,716463E+08	5,426926E+08
1962	1,939863E+08	1,900884E+07	0,000000E+00	0,000000E+00	1,901068E+07	1,939919E+08	5,427008E+08	9,716796E+08	1,301356E+09	1,301330E+09	9,716255E+08	5,426582E+08
1963	1,939618E+08	1,900052E+07	0,000000E+00	0,000000E+00	1,899966E+07	1,939594E+08	5,426585E+08	9,716368E+08	1,301357E+09	1,301389E+09	9,717085E+08	5,427160E+08
1964	1,939910E+08	1,900615E+07	0,000000E+00	0,000000E+00	1,900335E+07	1,939847E+08	5,427164E+08	9,717079E+08	1,301395E+09	1,301392E+09	9,716889E+08	5,426869E+08
1965	1,939602E+08	1,899673E+07	0,000000E+00	0,000000E+00	1,900043E+07	1,939775E+08	5,427112E+08	9,717252E+08	1,301438E+09	1,301438E+09	9,717165E+08	5,426948E+08
1966	1,939609E+08	1,899308E+07	0,000000E+00	0,000000E+00	1,899043E+07	1,939516E+08	5,426936E+08	9,717310E+08	1,301469E+09	1,301480E+09	9,717633E+08	5,427314E+08
1967	1,939817E+08	1,899861E+07	0,000000E+00	0,000000E+00	1,899772E+07	1,939810E+08	5,427366E+08	9,717797E+08	1,301501E+09	1,301475E+09	9,717198E+08	5,426812E+08
1968	1,939459E+08	1,898873E+07	0,000000E+00	0,000000E+00	1,899006E+07	1,939545E+08	5,426947E+08	9,717363E+08	1,301493E+09	1,301511E+09	9,717711E+08	5,427198E+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°
1969	1,939693E+08	1,899411E+07	0,000000E+00	0,000000E+00	1,899044E+07	1,939530E+08	5,427008E+08	9,717415E+08	1,301477E+09	1,301488E+09	9,717677E+08	5,427289E+08
1970	1,939760E+08	1,899756E+07	0,000000E+00	0,000000E+00	1,899971E+07	1,939815E+08	5,427268E+08	9,717591E+08	1,301468E+09	1,301441E+09	9,716969E+08	5,426746E+08
1971	1,939479E+08	1,899100E+07	0,000000E+00	0,000000E+00	1,899406E+07	1,939585E+08	5,426794E+08	9,716812E+08	1,301406E+09	1,301429E+09	9,717301E+08	5,427195E+08
1972	1,939864E+08	1,900387E+07	0,000000E+00	0,000000E+00	1,900235E+07	1,939793E+08	5,427103E+08	9,716960E+08	1,301371E+09	1,301358E+09	9,716698E+08	5,426898E+08
1973	1,939734E+08	1,900271E+07	0,000000E+00	0,000000E+00	1,900783E+07	1,939898E+08	5,427022E+08	9,716727E+08	1,301343E+09	1,301321E+09	9,716232E+08	5,426616E+08
1974	1,939695E+08	1,900460E+07	0,000000E+00	0,000000E+00	1,900421E+07	1,939640E+08	5,426513E+08	9,715997E+08	1,301281E+09	1,301296E+09	9,716421E+08	5,427000E+08
1975	1,940057E+08	1,901753E+07	0,000000E+00	0,000000E+00	1,901636E+07	1,940010E+08	5,426874E+08	9,716038E+08	1,301236E+09	1,301218E+09	9,715616E+08	5,426465E+08
1976	1,939769E+08	1,901297E+07	0,000000E+00	0,000000E+00	1,901715E+07	1,939947E+08	5,426608E+08	9,715551E+08	1,301191E+09	1,301198E+09	9,715669E+08	5,426645E+08
1977	1,939960E+08	1,901886E+07	0,000000E+00	0,000000E+00	1,901634E+07	1,939840E+08	5,426509E+08	9,715424E+08	1,301166E+09	1,301177E+09	9,715727E+08	5,426857E+08
1978	1,940128E+08	1,902406E+07	0,000000E+00	0,000000E+00	1,902530E+07	1,940165E+08	5,426904E+08	9,715856E+08	1,301184E+09	1,301146E+09	9,715039E+08	5,426253E+08
1979	1,939769E+08	1,901568E+07	0,000000E+00	0,000000E+00	1,901802E+07	1,939875E+08	5,426418E+08	9,715294E+08	1,301173E+09	1,301190E+09	9,715695E+08	5,426733E+08
1980	1,940061E+08	1,902156E+07	0,000000E+00	0,000000E+00	1,901716E+07	1,939891E+08	5,426603E+08	9,715600E+08	1,301189E+09	1,301194E+09	9,715707E+08	5,426707E+08
1981	1,939961E+08	1,901839E+07	0,000000E+00	0,000000E+00	1,902108E+07	1,940065E+08	5,426809E+08	9,715937E+08	1,301232E+09	1,301223E+09	9,715626E+08	5,426435E+08
1982	1,939739E+08	1,901016E+07	0,000000E+00	0,000000E+00	1,900881E+07	1,939716E+08	5,426449E+08	9,715705E+08	1,301247E+09	1,301279E+09	9,716402E+08	5,427009E+08
1983	1,940028E+08	1,901545E+07	0,000000E+00	0,000000E+00	1,901247E+07	1,939959E+08	5,426989E+08	9,716385E+08	1,301282E+09	1,301272E+09	9,716112E+08	5,426685E+08
1984	1,939732E+08	1,900669E+07	0,000000E+00	0,000000E+00	1,900956E+07	1,939885E+08	5,426944E+08	9,716588E+08	1,301333E+09	1,301324E+09	9,716373E+08	5,426748E+08
1985	1,939734E+08	1,900303E+07	0,000000E+00	0,000000E+00	1,899989E+07	1,939601E+08	5,426693E+08	9,716528E+08	1,301354E+09	1,301369E+09	9,716917E+08	5,427129E+08
1986	1,939941E+08	1,900903E+07	0,000000E+00	0,000000E+00	1,900789E+07	1,939905E+08	5,427126E+08	9,717022E+08	1,301380E+09	1,301352E+09	9,716404E+08	5,426592E+08
1987	1,939562E+08	1,899883E+07	0,000000E+00	0,000000E+00	1,900171E+07	1,939706E+08	5,426748E+08	9,716499E+08	1,301358E+09	1,301377E+09	9,716853E+08	5,426958E+08
1988	1,939793E+08	1,900431E+07	0,000000E+00	0,000000E+00	1,900210E+07	1,939677E+08	5,426773E+08	9,716458E+08	1,301326E+09	1,301339E+09	9,716751E+08	5,427057E+08
1989	1,939885E+08	1,900826E+07	0,000000E+00	0,000000E+00	1,901185E+07	1,939988E+08	5,427094E+08	9,716717E+08	1,301327E+09	1,301299E+09	9,716070E+08	5,426527E+08
1990	1,939632E+08	1,900278E+07	0,000000E+00	0,000000E+00	1,900495E+07	1,939701E+08	5,426572E+08	9,716002E+08	1,301276E+09	1,301289E+09	9,716345E+08	5,426937E+08
1991	1,940007E+08	1,901596E+07	0,000000E+00	0,000000E+00	1,901335E+07	1,939890E+08	5,426772E+08	9,715948E+08	1,301223E+09	1,301212E+09	9,715716E+08	5,426629E+08
1992	1,939890E+08	1,901585E+07	0,000000E+00	0,000000E+00	1,901979E+07	1,940031E+08	5,426735E+08	9,715719E+08	1,301193E+09	1,301174E+09	9,715278E+08	5,426377E+08
1993	1,939851E+08	1,901760E+07	0,000000E+00	0,000000E+00	1,901695E+07	1,939790E+08	5,426246E+08	9,714975E+08	1,301128E+09	1,301151E+09	9,715541E+08	5,426795E+08
1994	1,940207E+08	1,902988E+07	0,000000E+00	0,000000E+00	1,902904E+07	1,940177E+08	5,426717E+08	9,715240E+08	1,301095E+09	1,301071E+09	9,714664E+08	5,426222E+08
1995	1,939895E+08	1,902420E+07	0,000000E+00	0,000000E+00	1,902970E+07	1,940123E+08	5,426463E+08	9,714810E+08	1,301066E+09	1,301063E+09	9,714738E+08	5,426376E+08
1996	1,940067E+08	1,902915E+07	0,000000E+00	0,000000E+00	1,902704E+07	1,939950E+08	5,426249E+08	9,714577E+08	1,301041E+09	1,301052E+09	9,714886E+08	5,426624E+08
1997	1,940245E+08	1,903423E+07	0,000000E+00	0,000000E+00	1,903564E+07	1,940278E+08	5,426653E+08	9,714990E+08	1,301064E+09	1,301039E+09	9,714361E+08	5,426082E+08
1998	1,939902E+08	1,902616E+07	0,000000E+00	0,000000E+00	1,902715E+07	1,939956E+08	5,426152E+08	9,714474E+08	1,301054E+09	1,301078E+09	9,715001E+08	5,426570E+08
1999	1,940183E+08	1,903149E+07	0,000000E+00	0,000000E+00	1,902668E+07	1,940001E+08	5,426336E+08	9,714673E+08	1,301053E+09	1,301066E+09	9,714936E+08	5,426536E+08
2000	1,940096E+08	1,902869E+07	0,000000E+00	0,000000E+00	1,903106E+07	1,940212E+08	5,426670E+08	9,715183E+08	1,301105E+09	1,301091E+09	9,714801E+08	5,426251E+08
2001	1,939866E+08	1,901983E+07	0,000000E+00	0,000000E+00	1,901856E+07	1,939839E+08	5,426303E+08	9,715044E+08	1,301135E+09	1,301159E+09	9,715609E+08	5,426806E+08
2002	1,940142E+08	1,902496E+07	0,000000E+00	0,000000E+00	1,902187E+07	1,940062E+08	5,426844E+08	9,715812E+08	1,301182E+09	1,301157E+09	9,715274E+08	5,426426E+08
2003	1,939822E+08	1,901589E+07	0,000000E+00	0,000000E+00	1,901937E+07	1,939996E+08	5,426743E+08	9,715886E+08	1,301228E+09	1,301214E+09	9,715584E+08	5,426482E+08
2004	1,939812E+08	1,901227E+07	0,000000E+00	0,000000E+00	1,900981E+07	1,939697E+08	5,426401E+08	9,715630E+08	1,301228E+09	1,301251E+09	9,716177E+08	5,426933E+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°
2005	1,940050E+08	1,901888E+07	0,000000E+00	0,000000E+00	1,901891E+07	1,940055E+08	5,426905E+08	9,716108E+08	1,301248E+09	1,301234E+09	9,715699E+08	5,426440E+08
2006	1,939702E+08	1,900942E+07	0,000000E+00	0,000000E+00	1,901214E+07	1,939839E+08	5,426575E+08	9,715723E+08	1,301229E+09	1,301245E+09	9,716023E+08	5,426775E+08
2007	1,939937E+08	1,901523E+07	0,000000E+00	0,000000E+00	1,901283E+07	1,939801E+08	5,426530E+08	9,715569E+08	1,301186E+09	1,301194E+09	9,715807E+08	5,426835E+08
2008	1,940049E+08	1,902033E+07	0,000000E+00	0,000000E+00	1,902271E+07	1,940114E+08	5,426856E+08	9,715833E+08	1,301190E+09	1,301155E+09	9,715100E+08	5,426281E+08
2009	1,939789E+08	1,901529E+07	0,000000E+00	0,000000E+00	1,901648E+07	1,939809E+08	5,426275E+08	9,715046E+08	1,301136E+09	1,301151E+09	9,715437E+08	5,426690E+08
2010	1,940150E+08	1,902848E+07	0,000000E+00	0,000000E+00	1,902548E+07	1,940020E+08	5,426511E+08	9,715022E+08	1,301079E+09	1,301064E+09	9,714740E+08	5,426353E+08
2011	1,940013E+08	1,902797E+07	0,000000E+00	0,000000E+00	1,903324E+07	1,940221E+08	5,426529E+08	9,714774E+08	1,301045E+09	1,301026E+09	9,714307E+08	5,426096E+08
2012	1,939963E+08	1,902908E+07	0,000000E+00	0,000000E+00	1,902989E+07	1,939960E+08	5,426028E+08	9,714021E+08	1,300974E+09	1,301000E+09	9,714595E+08	5,426563E+08
2013	1,940341E+08	1,904107E+07	0,000000E+00	0,000000E+00	1,904138E+07	1,940343E+08	5,426520E+08	9,714372E+08	1,300962E+09	1,300939E+09	9,713809E+08	5,426022E+08
2014	1,940052E+08	1,903587E+07	0,000000E+00	0,000000E+00	1,904026E+07	1,940226E+08	5,426218E+08	9,713999E+08	1,300943E+09	1,300937E+09	9,713890E+08	5,426161E+08
2015	1,940209E+08	1,904035E+07	0,000000E+00	0,000000E+00	1,903712E+07	1,940034E+08	5,425899E+08	9,713564E+08	1,300902E+09	1,300920E+09	9,714039E+08	5,426408E+08
2016	1,940391E+08	1,904581E+07	0,000000E+00	0,000000E+00	1,904595E+07	1,940395E+08	5,426386E+08	9,714051E+08	1,300926E+09	1,300904E+09	9,713537E+08	5,425891E+08
2017	1,940039E+08	1,903708E+07	0,000000E+00	0,000000E+00	1,903797E+07	1,940096E+08	5,425959E+08	9,713640E+08	1,300923E+09	1,300951E+09	9,714210E+08	5,426376E+08
2018	1,940296E+08	1,904125E+07	0,000000E+00	0,000000E+00	1,903701E+07	1,940151E+08	5,426260E+08	9,714084E+08	1,300939E+09	1,300938E+09	9,714071E+08	5,426293E+08
2019	1,940190E+08	1,903775E+07	0,000000E+00	0,000000E+00	1,904137E+07	1,940370E+08	5,426593E+08	9,714648E+08	1,301010E+09	1,300981E+09	9,713994E+08	5,425988E+08
2020	1,939940E+08	1,902822E+07	0,000000E+00	0,000000E+00	1,902757E+07	1,939935E+08	5,426099E+08	9,714357E+08	1,301034E+09	1,301057E+09	9,714898E+08	5,426590E+08
2021	1,940231E+08	1,903361E+07	0,000000E+00	0,000000E+00	1,903088E+07	1,940154E+08	5,426601E+08	9,715046E+08	1,301081E+09	1,301068E+09	9,714697E+08	5,426284E+08
2022	1,939949E+08	1,902560E+07	0,000000E+00	0,000000E+00	1,902795E+07	1,940070E+08	5,426475E+08	9,715084E+08	1,301117E+09	1,301110E+09	9,714941E+08	5,426342E+08
2023	1,939939E+08	1,902210E+07	0,000000E+00	0,000000E+00	1,901951E+07	1,939800E+08	5,426095E+08	9,714624E+08	1,301084E+09	1,301118E+09	9,715388E+08	5,426776E+08
2024	1,940205E+08	1,902992E+07	0,000000E+00	0,000000E+00	1,902930E+07	1,940190E+08	5,426710E+08	9,715241E+08	1,301104E+09	1,301085E+09	9,714790E+08	5,426254E+08
2025	1,939862E+08	1,902087E+07	0,000000E+00	0,000000E+00	1,902323E+07	1,939967E+08	5,426362E+08	9,714885E+08	1,301092E+09	1,301100E+09	9,715058E+08	5,426524E+08
2026	1,940079E+08	1,902696E+07	0,000000E+00	0,000000E+00	1,902405E+07	1,939927E+08	5,426329E+08	9,714766E+08	1,301053E+09	1,301048E+09	9,714756E+08	5,426505E+08
2027	1,940167E+08	1,903214E+07	0,000000E+00	0,000000E+00	1,903502E+07	1,940269E+08	5,426624E+08	9,714932E+08	1,301054E+09	1,301016E+09	9,714114E+08	5,425950E+08
2028	1,939889E+08	1,902697E+07	0,000000E+00	0,000000E+00	1,902910E+07	1,939959E+08	5,425988E+08	9,714022E+08	1,300986E+09	1,301009E+09	9,714529E+08	5,426435E+08
2029	1,940268E+08	1,903995E+07	0,000000E+00	0,000000E+00	1,903858E+07	1,940207E+08	5,426302E+08	9,714070E+08	1,300937E+09	1,300933E+09	9,713919E+08	5,426167E+08
2030	1,940168E+08	1,903989E+07	0,000000E+00	0,000000E+00	1,904520E+07	1,940373E+08	5,426352E+08	9,713974E+08	1,300914E+09	1,300890E+09	9,713440E+08	5,425904E+08
2031	1,940115E+08	1,904069E+07	0,000000E+00	0,000000E+00	1,904140E+07	1,940087E+08	5,425756E+08	9,713083E+08	1,300834E+09	1,300858E+09	9,713689E+08	5,426361E+08
2032	1,940512E+08	1,905322E+07	0,000000E+00	0,000000E+00	1,905201E+07	1,940454E+08	5,426261E+08	9,713464E+08	1,300824E+09	1,300800E+09	9,712928E+08	5,425822E+08
2033	1,940216E+08	1,904801E+07	0,000000E+00	0,000000E+00	1,905112E+07	1,940321E+08	5,425916E+08	9,713048E+08	1,300806E+09	1,300806E+09	9,713064E+08	5,425954E+08
2034	1,940349E+08	1,905175E+07	0,000000E+00	0,000000E+00	1,904793E+07	1,940160E+08	5,425673E+08	9,712687E+08	1,300764E+09	1,300781E+09	9,713130E+08	5,426150E+08
2035	1,940499E+08	1,905627E+07	0,000000E+00	0,000000E+00	1,905741E+07	1,940567E+08	5,426232E+08	9,713235E+08	1,300794E+09	1,300771E+09	9,712649E+08	5,425618E+08
2036	1,940123E+08	1,904638E+07	0,000000E+00	0,000000E+00	1,904857E+07	1,940243E+08	5,425817E+08	9,712918E+08	1,300801E+09	1,300823E+09	9,713378E+08	5,426142E+08
2037	1,940386E+08	1,904991E+07	0,000000E+00	0,000000E+00	1,904682E+07	1,940284E+08	5,426117E+08	9,713460E+08	1,300843E+09	1,300838E+09	9,713357E+08	5,426094E+08
2038	1,940303E+08	1,904706E+07	0,000000E+00	0,000000E+00	1,904952E+07	1,940436E+08	5,426384E+08	9,714015E+08	1,300919E+09	1,300888E+09	9,713332E+08	5,425800E+08
2039	1,940052E+08	1,903757E+07	0,000000E+00	0,000000E+00	1,903596E+07	1,939995E+08	5,425775E+08	9,713460E+08	1,300915E+09	1,300949E+09	9,714233E+08	5,426432E+08
2040	1,940370E+08	1,904405E+07	0,000000E+00	0,000000E+00	1,903987E+07	1,940245E+08	5,426327E+08	9,714130E+08	1,300949E+09	1,300945E+09	9,713997E+08	5,426154E+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°
2041	1,940098E+08	1,903637E+07	0,000000E+00	0,000000E+00	1,903825E+07	1,940191E+08	5,426252E+08	9,714207E+08	1,300981E+09	1,300980E+09	9,714164E+08	5,426173E+08
2042	1,940076E+08	1,903260E+07	0,000000E+00	0,000000E+00	1,903035E+07	1,939952E+08	5,425972E+08	9,713888E+08	1,300952E+09	1,300974E+09	9,714424E+08	5,426510E+08
2043	1,940322E+08	1,904038E+07	0,000000E+00	0,000000E+00	1,904077E+07	1,940354E+08	5,426570E+08	9,714512E+08	1,300982E+09	1,300951E+09	9,713821E+08	5,425937E+08
2044	1,939956E+08	1,903115E+07	0,000000E+00	0,000000E+00	1,903449E+07	1,940102E+08	5,426145E+08	9,714049E+08	1,300964E+09	1,300968E+09	9,714149E+08	5,426235E+08
2045	1,940178E+08	1,903751E+07	0,000000E+00	0,000000E+00	1,903572E+07	1,940067E+08	5,426082E+08	9,713885E+08	1,300929E+09	1,300930E+09	9,713953E+08	5,426273E+08
2046	1,940297E+08	1,904366E+07	0,000000E+00	0,000000E+00	1,904639E+07	1,940400E+08	5,426377E+08	9,714026E+08	1,300921E+09	1,300888E+09	9,713295E+08	5,425748E+08
2047	1,940028E+08	1,903870E+07	0,000000E+00	0,000000E+00	1,904133E+07	1,940108E+08	5,425710E+08	9,712959E+08	1,300827E+09	1,300859E+09	9,713624E+08	5,426246E+08
2048	1,940439E+08	1,905239E+07	0,000000E+00	0,000000E+00	1,905044E+07	1,940358E+08	5,426096E+08	9,713149E+08	1,300785E+09	1,300775E+09	9,712970E+08	5,425985E+08
2049	1,940353E+08	1,905280E+07	0,000000E+00	0,000000E+00	1,905720E+07	1,940495E+08	5,426091E+08	9,713056E+08	1,300772E+09	1,300744E+09	9,712484E+08	5,425675E+08
2050	1,940282E+08	1,905332E+07	0,000000E+00	0,000000E+00	1,905293E+07	1,940206E+08	5,425503E+08	9,712159E+08	1,300690E+09	1,300709E+09	9,712662E+08	5,426059E+08
2051	1,940645E+08	1,906535E+07	0,000000E+00	0,000000E+00	1,906394E+07	1,940591E+08	5,425995E+08	9,712505E+08	1,300683E+09	1,300660E+09	9,711982E+08	5,425515E+08
2052	1,940318E+08	1,905920E+07	0,000000E+00	0,000000E+00	1,906301E+07	1,940468E+08	5,425660E+08	9,712070E+08	1,300660E+09	1,300667E+09	9,712183E+08	5,425698E+08
2053	1,940446E+08	1,906178E+07	0,000000E+00	0,000000E+00	1,905939E+07	1,940331E+08	5,425520E+08	9,711908E+08	1,300644E+09	1,300664E+09	9,712354E+08	5,425943E+08
2054	1,940615E+08	1,906615E+07	0,000000E+00	0,000000E+00	1,906720E+07	1,940698E+08	5,426121E+08	9,712646E+08	1,300693E+09	1,300662E+09	9,711924E+08	5,425436E+08
2055	1,940239E+08	1,905570E+07	0,000000E+00	0,000000E+00	1,905747E+07	1,940334E+08	5,425594E+08	9,712188E+08	1,300695E+09	1,300717E+09	9,712673E+08	5,425970E+08
2056	1,940516E+08	1,905963E+07	0,000000E+00	0,000000E+00	1,905488E+07	1,940354E+08	5,425897E+08	9,712740E+08	1,300737E+09	1,300733E+09	9,712722E+08	5,425964E+08
2057	1,940444E+08	1,905736E+07	0,000000E+00	0,000000E+00	1,905823E+07	1,940492E+08	5,426087E+08	9,713182E+08	1,300804E+09	1,300783E+09	9,712704E+08	5,425659E+08
2058	1,940180E+08	1,904756E+07	0,000000E+00	0,000000E+00	1,904555E+07	1,940108E+08	5,425560E+08	9,712600E+08	1,300783E+09	1,300822E+09	9,713429E+08	5,426218E+08
2059	1,940478E+08	1,905385E+07	0,000000E+00	0,000000E+00	1,905078E+07	1,940403E+08	5,426169E+08	9,713304E+08	1,300815E+09	1,300812E+09	9,713130E+08	5,425897E+08
2060	1,940189E+08	1,904564E+07	0,000000E+00	0,000000E+00	1,904918E+07	1,940343E+08	5,426102E+08	9,713437E+08	1,300849E+09	1,300841E+09	9,713252E+08	5,425915E+08
2061	1,940172E+08	1,904196E+07	0,000000E+00	0,000000E+00	1,904122E+07	1,940100E+08	5,425812E+08	9,713197E+08	1,300844E+09	1,300856E+09	9,713556E+08	5,426244E+08
2062	1,940436E+08	1,905076E+07	0,000000E+00	0,000000E+00	1,905067E+07	1,940455E+08	5,426360E+08	9,713770E+08	1,300870E+09	1,300835E+09	9,713000E+08	5,425690E+08
2063	1,940074E+08	1,904202E+07	0,000000E+00	0,000000E+00	1,904515E+07	1,940205E+08	5,425832E+08	9,713060E+08	1,300825E+09	1,300838E+09	9,713320E+08	5,426020E+08
2064	1,940322E+08	1,904948E+07	0,000000E+00	0,000000E+00	1,904700E+07	1,940202E+08	5,425837E+08	9,712914E+08	1,300780E+09	1,300788E+09	9,713130E+08	5,426109E+08
2065	1,940462E+08	1,905626E+07	0,000000E+00	0,000000E+00	1,905854E+07	1,940541E+08	5,426142E+08	9,713078E+08	1,300773E+09	1,300744E+09	9,712430E+08	5,425570E+08
2066	1,940200E+08	1,905140E+07	0,000000E+00	0,000000E+00	1,905387E+07	1,940274E+08	5,425542E+08	9,712090E+08	1,300680E+09	1,300703E+09	9,712598E+08	5,425985E+08
2067	1,940596E+08	1,906492E+07	0,000000E+00	0,000000E+00	1,906293E+07	1,940507E+08	5,425863E+08	9,712239E+08	1,300644E+09	1,300630E+09	9,711961E+08	5,425678E+08
2068	1,940483E+08	1,906480E+07	0,000000E+00	0,000000E+00	1,906924E+07	1,940619E+08	5,425799E+08	9,712066E+08	1,300625E+09	1,300601E+09	9,711550E+08	5,425407E+08
2069	1,940406E+08	1,906488E+07	0,000000E+00	0,000000E+00	1,906495E+07	1,940342E+08	5,425218E+08	9,711209E+08	1,300557E+09	1,300581E+09	9,711808E+08	5,425815E+08
2070	1,940768E+08	1,907661E+07	0,000000E+00	0,000000E+00	1,907495E+07	1,940720E+08	5,425756E+08	9,711601E+08	1,300547E+09	1,300530E+09	9,711157E+08	5,425301E+08
2071	1,940437E+08	1,906985E+07	0,000000E+00	0,000000E+00	1,907413E+07	1,940612E+08	5,425448E+08	9,711158E+08	1,300516E+09	1,300528E+09	9,711333E+08	5,425498E+08
2072	1,940581E+08	1,907231E+07	0,000000E+00	0,000000E+00	1,906944E+07	1,940465E+08	5,425383E+08	9,711195E+08	1,300518E+09	1,300531E+09	9,711543E+08	5,425767E+08
2073	1,940756E+08	1,907696E+07	0,000000E+00	0,000000E+00	1,907688E+07	1,940788E+08	5,425906E+08	9,711930E+08	1,300584E+09	1,300550E+09	9,711176E+08	5,425250E+08
2074	1,940374E+08	1,906622E+07	0,000000E+00	0,000000E+00	1,906689E+07	1,940432E+08	5,425389E+08	9,711429E+08	1,300580E+09	1,300601E+09	9,711870E+08	5,425726E+08
2075	1,940621E+08	1,906962E+07	0,000000E+00	0,000000E+00	1,906484E+07	1,940461E+08	5,425655E+08	9,711915E+08	1,300618E+09	1,300620E+09	9,711973E+08	5,425721E+08
2076	1,940527E+08	1,906654E+07	0,000000E+00	0,000000E+00	1,906852E+07	1,940619E+08	5,425870E+08	9,712331E+08	1,300675E+09	1,300661E+09	9,711958E+08	5,425462E+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°
2077	1,940267E+08	1,905612E+07	0,000000E+00	0,000000E+00	1,905612E+07	1,940268E+08	5,425433E+08	9,711923E+08	1,300673E+09	1,300708E+09	9,712672E+08	5,426016E+08
2078	1,940578E+08	1,906273E+07	0,000000E+00	0,000000E+00	1,906031E+07	1,940529E+08	5,426054E+08	9,712711E+08	1,300713E+09	1,300699E+09	9,712368E+08	5,425693E+08
2079	1,940298E+08	1,905485E+07	0,000000E+00	0,000000E+00	1,905858E+07	1,940448E+08	5,425890E+08	9,712669E+08	1,300733E+09	1,300723E+09	9,712457E+08	5,425701E+08
2080	1,940301E+08	1,905237E+07	0,000000E+00	0,000000E+00	1,905048E+07	1,940193E+08	5,425593E+08	9,712415E+08	1,300722E+09	1,300736E+09	9,712812E+08	5,426067E+08
2081	1,940581E+08	1,906247E+07	0,000000E+00	0,000000E+00	1,906096E+07	1,940538E+08	5,426053E+08	9,712847E+08	1,300740E+09	1,300713E+09	9,712247E+08	5,425522E+08
2082	1,940230E+08	1,905414E+07	0,000000E+00	0,000000E+00	1,905678E+07	1,940348E+08	5,425593E+08	9,712065E+08	1,300672E+09	1,300690E+09	9,712381E+08	5,425780E+08
2083	1,940463E+08	1,906170E+07	0,000000E+00	0,000000E+00	1,905980E+07	1,940372E+08	5,425635E+08	9,711967E+08	1,300626E+09	1,300634E+09	9,712146E+08	5,425841E+08
2084	1,940594E+08	1,906799E+07	0,000000E+00	0,000000E+00	1,907127E+07	1,940697E+08	5,425918E+08	9,712144E+08	1,300619E+09	1,300586E+09	9,711415E+08	5,425306E+08
2085	1,940336E+08	1,906321E+07	0,000000E+00	0,000000E+00	1,906656E+07	1,940424E+08	5,425298E+08	9,711214E+08	1,300549E+09	1,300565E+09	9,711622E+08	5,425706E+08
2086	1,940736E+08	1,907704E+07	0,000000E+00	0,000000E+00	1,907439E+07	1,940620E+08	5,425583E+08	9,711312E+08	1,300509E+09	1,300497E+09	9,711066E+08	5,425422E+08
2087	1,940616E+08	1,907675E+07	0,000000E+00	0,000000E+00	1,908088E+07	1,940738E+08	5,425461E+08	9,710968E+08	1,300468E+09	1,300455E+09	9,710650E+08	5,425178E+08
2088	1,940551E+08	1,907696E+07	0,000000E+00	0,000000E+00	1,907644E+07	1,940494E+08	5,425008E+08	9,710272E+08	1,300405E+09	1,300434E+09	9,710951E+08	5,425628E+08
2089	1,940914E+08	1,908845E+07	0,000000E+00	0,000000E+00	1,908631E+07	1,940857E+08	5,425571E+08	9,710790E+08	1,300414E+09	1,300395E+09	9,710324E+08	5,425120E+08
2090	1,940585E+08	1,908110E+07	0,000000E+00	0,000000E+00	1,908509E+07	1,940765E+08	5,425331E+08	9,710462E+08	1,300395E+09	1,300395E+09	9,710424E+08	5,425243E+08
2091	1,940697E+08	1,908270E+07	0,000000E+00	0,000000E+00	1,907987E+07	1,940594E+08	5,425219E+08	9,710510E+08	1,300411E+09	1,300418E+09	9,710738E+08	5,425503E+08
2092	1,940848E+08	1,908640E+07	0,000000E+00	0,000000E+00	1,908663E+07	1,940882E+08	5,425665E+08	9,711150E+08	1,300471E+09	1,300442E+09	9,710483E+08	5,425055E+08
2093	1,940469E+08	1,907527E+07	0,000000E+00	0,000000E+00	1,907673E+07	1,940540E+08	5,425145E+08	9,710675E+08	1,300477E+09	1,300501E+09	9,711210E+08	5,425547E+08
2094	1,940718E+08	1,907844E+07	0,000000E+00	0,000000E+00	1,907403E+07	1,940567E+08	5,425443E+08	9,711139E+08	1,300502E+09	1,300511E+09	9,711304E+08	5,425561E+08
2095	1,940629E+08	1,907522E+07	0,000000E+00	0,000000E+00	1,907780E+07	1,940731E+08	5,425666E+08	9,711512E+08	1,300544E+09	1,300533E+09	9,711189E+08	5,425294E+08
2096	1,940393E+08	1,906548E+07	0,000000E+00	0,000000E+00	1,906511E+07	1,940384E+08	5,425296E+08	9,711259E+08	1,300553E+09	1,300579E+09	9,711877E+08	5,425838E+08
2097	1,940713E+08	1,907323E+07	0,000000E+00	0,000000E+00	1,906947E+07	1,940602E+08	5,425811E+08	9,711965E+08	1,300600E+09	1,300583E+09	9,711586E+08	5,425497E+08
2098	1,940444E+08	1,906611E+07	0,000000E+00	0,000000E+00	1,906860E+07	1,940559E+08	5,425665E+08	9,711823E+08	1,300604E+09	1,300594E+09	9,711574E+08	5,425434E+08
2099	1,940422E+08	1,906398E+07	0,000000E+00	0,000000E+00	1,906193E+07	1,940325E+08	5,425335E+08	9,711479E+08	1,300585E+09	1,300604E+09	9,711936E+08	5,425791E+08
2100	1,940684E+08	1,907347E+07	0,000000E+00	0,000000E+00	1,907314E+07	1,940693E+08	5,425817E+08	9,711883E+08	1,300590E+09	1,300569E+09	9,711375E+08	5,425308E+08
2101	1,940355E+08	1,906524E+07	0,000000E+00	0,000000E+00	1,906964E+07	1,940529E+08	5,425423E+08	9,711274E+08	1,300543E+09	1,300553E+09	9,711471E+08	5,425546E+08
2102	1,940595E+08	1,907293E+07	0,000000E+00	0,000000E+00	1,907164E+07	1,940513E+08	5,425435E+08	9,711169E+08	1,300499E+09	1,300500E+09	9,711251E+08	5,425613E+08
2103	1,940732E+08	1,907938E+07	0,000000E+00	0,000000E+00	1,908260E+07	1,940812E+08	5,425630E+08	9,711174E+08	1,300475E+09	1,300444E+09	9,710497E+08	5,425078E+08
2104	1,940494E+08	1,907554E+07	0,000000E+00	0,000000E+00	1,907790E+07	1,940543E+08	5,425033E+08	9,710256E+08	1,300398E+09	1,300419E+09	9,710744E+08	5,425501E+08
2105	1,940895E+08	1,908994E+07	0,000000E+00	0,000000E+00	1,908608E+07	1,940729E+08	5,425255E+08	9,710272E+08	1,300358E+09	1,300353E+09	9,710185E+08	5,425221E+08
2106	1,940776E+08	1,908941E+07	0,000000E+00	0,000000E+00	1,909334E+07	1,940916E+08	5,425261E+08	9,709969E+08	1,300308E+09	1,300296E+09	9,709628E+08	5,424904E+08
2107	1,940682E+08	1,908890E+07	0,000000E+00	0,000000E+00	1,908899E+07	1,940674E+08	5,424864E+08	9,709450E+08	1,300265E+09	1,300287E+09	9,709958E+08	5,425327E+08
2108	1,941015E+08	1,909888E+07	0,000000E+00	0,000000E+00	1,909787E+07	1,941004E+08	5,425399E+08	9,710046E+08	1,300289E+09	1,300261E+09	9,709427E+08	5,424877E+08
2109	1,940700E+08	1,909138E+07	0,000000E+00	0,000000E+00	1,909591E+07	1,940886E+08	5,425126E+08	9,709805E+08	1,300299E+09	1,300289E+09	9,709637E+08	5,425002E+08
2110	1,940800E+08	1,909240E+07	0,000000E+00	0,000000E+00	1,908924E+07	1,940678E+08	5,424968E+08	9,709766E+08	1,300308E+09	1,300320E+09	9,710084E+08	5,425317E+08
2111	1,940949E+08	1,909575E+07	0,000000E+00	0,000000E+00	1,909574E+07	1,940965E+08	5,425362E+08	9,710224E+08	1,300343E+09	1,300328E+09	9,709820E+08	5,424911E+08
2112	1,940593E+08	1,908482E+07	0,000000E+00	0,000000E+00	1,908587E+07	1,940659E+08	5,424968E+08	9,709885E+08	1,300347E+09	1,300379E+09	9,710540E+08	5,425431E+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												
2113	1,940854E+08	1,908838E+07	0,000000E+00	0,000000E+00	1,908325E+07	1,940669E+08	5,425248E+08	9,710411E+08	1,300386E+09	1,300393E+09	9,710589E+08	5,425429E+08
2114	1,940777E+08	1,908530E+07	0,000000E+00	0,000000E+00	1,908717E+07	1,940857E+08	5,425515E+08	9,710800E+08	1,300426E+09	1,300405E+09	9,710315E+08	5,425053E+08
2115	1,940514E+08	1,907570E+07	0,000000E+00	0,000000E+00	1,907489E+07	1,940500E+08	5,425117E+08	9,710555E+08	1,300443E+09	1,300464E+09	9,711039E+08	5,425555E+08
2116	1,940800E+08	1,908289E+07	0,000000E+00	0,000000E+00	1,907967E+07	1,940706E+08	5,425565E+08	9,711151E+08	1,300479E+09	1,300463E+09	9,710807E+08	5,425275E+08
2117	1,940547E+08	1,907617E+07	0,000000E+00	0,000000E+00	1,907967E+07	1,940691E+08	5,425425E+08	9,711028E+08	1,300489E+09	1,300477E+09	9,710779E+08	5,425205E+08
2118	1,940523E+08	1,907409E+07	0,000000E+00	0,000000E+00	1,907322E+07	1,940476E+08	5,425144E+08	9,710641E+08	1,300454E+09	1,300476E+09	9,711138E+08	5,425594E+08
2119	1,940801E+08	1,908365E+07	0,000000E+00	0,000000E+00	1,908430E+07	1,940829E+08	5,425590E+08	9,710958E+08	1,300442E+09	1,300422E+09	9,710472E+08	5,425113E+08
2120	1,940509E+08	1,907663E+07	0,000000E+00	0,000000E+00	1,908093E+07	1,940668E+08	5,425227E+08	9,710439E+08	1,300400E+09	1,300405E+09	9,710552E+08	5,425346E+08
2121	1,940766E+08	1,908570E+07	0,000000E+00	0,000000E+00	1,908296E+07	1,940607E+08	5,425110E+08	9,710204E+08	1,300359E+09	1,300360E+09	9,710337E+08	5,425398E+08
2122	1,940909E+08	1,909254E+07	0,000000E+00	0,000000E+00	1,909448E+07	1,940945E+08	5,425336E+08	9,710113E+08	1,300316E+09	1,300288E+09	9,709465E+08	5,424785E+08
2123	1,940640E+08	1,908877E+07	0,000000E+00	0,000000E+00	1,909092E+07	1,940706E+08	5,424777E+08	9,709238E+08	1,300242E+09	1,300264E+09	9,709715E+08	5,425182E+08
2124	1,941003E+08	1,910162E+07	0,000000E+00	0,000000E+00	1,909909E+07	1,940906E+08	5,425049E+08	9,709327E+08	1,300205E+09	1,300200E+09	9,709216E+08	5,424968E+08
2125	1,940900E+08	1,910072E+07	0,000000E+00	0,000000E+00	1,910610E+07	1,941097E+08	5,425123E+08	9,709283E+08	1,300192E+09	1,300163E+09	9,708702E+08	5,424640E+08
2126	1,940795E+08	1,909947E+07	0,000000E+00	0,000000E+00	1,910016E+07	1,940816E+08	5,424704E+08	9,708776E+08	1,300159E+09	1,300174E+09	9,709165E+08	5,425105E+08
2127	1,941126E+08	1,910882E+07	0,000000E+00	0,000000E+00	1,910752E+07	1,941093E+08	5,425132E+08	9,709211E+08	1,300171E+09	1,300148E+09	9,708714E+08	5,424713E+08
2128	1,940843E+08	1,910201E+07	0,000000E+00	0,000000E+00	1,910525E+07	1,940970E+08	5,424866E+08	9,708974E+08	1,300176E+09	1,300177E+09	9,709009E+08	5,424885E+08
2129	1,940947E+08	1,910322E+07	0,000000E+00	0,000000E+00	1,909853E+07	1,940745E+08	5,424629E+08	9,708820E+08	1,300180E+09	1,300205E+09	9,709426E+08	5,425207E+08
2130	1,941102E+08	1,910634E+07	0,000000E+00	0,000000E+00	1,910559E+07	1,941098E+08	5,425154E+08	9,709307E+08	1,300199E+09	1,300189E+09	9,708968E+08	5,424705E+08
2131	1,940719E+08	1,909498E+07	0,000000E+00	0,000000E+00	1,909626E+07	1,940806E+08	5,424833E+08	9,709150E+08	1,300219E+09	1,300241E+09	9,709607E+08	5,425146E+08
2132	1,940940E+08	1,909732E+07	0,000000E+00	0,000000E+00	1,909335E+07	1,940796E+08	5,425082E+08	9,709716E+08	1,300270E+09	1,300266E+09	9,709709E+08	5,425175E+08
2133	1,940878E+08	1,909474E+07	0,000000E+00	0,000000E+00	1,909730E+07	1,940982E+08	5,425342E+08	9,710197E+08	1,300334E+09	1,300298E+09	9,709498E+08	5,424778E+08
2134	1,940597E+08	1,908499E+07	0,000000E+00	0,000000E+00	1,908473E+07	1,940614E+08	5,424908E+08	9,709832E+08	1,300338E+09	1,300360E+09	9,710325E+08	5,425326E+08
2135	1,940881E+08	1,909204E+07	0,000000E+00	0,000000E+00	1,908960E+07	1,940818E+08	5,425309E+08	9,710255E+08	1,300348E+09	1,300342E+09	9,710073E+08	5,425106E+08
2136	1,940674E+08	1,908635E+07	0,000000E+00	0,000000E+00	1,909016E+07	1,940836E+08	5,425264E+08	9,710223E+08	1,300354E+09	1,300346E+09	9,710033E+08	5,425062E+08
2137	1,940672E+08	1,908531E+07	0,000000E+00	0,000000E+00	1,908405E+07	1,940592E+08	5,424909E+08	9,709815E+08	1,300325E+09	1,300345E+09	9,710326E+08	5,425442E+08
2138	1,940977E+08	1,909551E+07	0,000000E+00	0,000000E+00	1,909527E+07	1,940964E+08	5,425365E+08	9,710055E+08	1,300301E+09	1,300275E+09	9,709491E+08	5,424860E+08
2139	1,940670E+08	1,908926E+07	0,000000E+00	0,000000E+00	1,909277E+07	1,940799E+08	5,424974E+08	9,709515E+08	1,300260E+09	1,300261E+09	9,709551E+08	5,425039E+08
2140	1,940893E+08	1,909773E+07	0,000000E+00	0,000000E+00	1,909526E+07	1,940737E+08	5,424801E+08	9,709177E+08	1,300208E+09	1,300212E+09	9,709384E+08	5,425143E+08
2141	1,941048E+08	1,910478E+07	0,000000E+00	0,000000E+00	1,910740E+07	1,941106E+08	5,425074E+08	9,709176E+08	1,300177E+09	1,300143E+09	9,708489E+08	5,424504E+08
2142	1,940756E+08	1,910038E+07	0,000000E+00	0,000000E+00	1,910373E+07	1,940887E+08	5,424601E+08	9,708358E+08	1,300100E+09	1,300122E+09	9,708788E+08	5,424926E+08
2143	1,941111E+08	1,911223E+07	0,000000E+00	0,000000E+00	1,911071E+07	1,941053E+08	5,424848E+08	9,708456E+08	1,300063E+09	1,300054E+09	9,708287E+08	5,424745E+08
2144	1,941046E+08	1,911214E+07	0,000000E+00	0,000000E+00	1,911705E+07	1,941225E+08	5,424932E+08	9,708502E+08	1,300064E+09	1,300035E+09	9,707895E+08	5,424457E+08
2145	1,940958E+08	1,911168E+07	0,000000E+00	0,000000E+00	1,911046E+07	1,940892E+08	5,424386E+08	9,707888E+08	1,300038E+09	1,300059E+09	9,708435E+08	5,424950E+08
2146	1,941295E+08	1,912073E+07	0,000000E+00	0,000000E+00	1,911765E+07	1,941195E+08	5,424824E+08	9,708200E+08	1,300028E+09	1,300016E+09	9,707883E+08	5,424504E+08
2147	1,940986E+08	1,911365E+07	0,000000E+00	0,000000E+00	1,911620E+07	1,941101E+08	5,424624E+08	9,708049E+08	1,300037E+09	1,300044E+09	9,708151E+08	5,424643E+08
2148	1,941049E+08	1,911285E+07	0,000000E+00	0,000000E+00	1,910942E+07	1,940896E+08	5,424451E+08	9,707993E+08	1,300045E+09	1,300071E+09	9,708591E+08	5,424999E+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												
2149	1,941207E+08	1,911547E+07	0,000000E+00	0,000000E+00	1,911595E+07	1,941243E+08	5,425037E+08	9,708743E+08	1,300100E+09	1,300071E+09	9,708123E+08	5,424446E+08
2150	1,940798E+08	1,910338E+07	0,000000E+00	0,000000E+00	1,910574E+07	1,940940E+08	5,424730E+08	9,708612E+08	1,300130E+09	1,300142E+09	9,708865E+08	5,424898E+08
2151	1,941007E+08	1,910524E+07	0,000000E+00	0,000000E+00	1,910180E+07	1,940885E+08	5,424878E+08	9,709011E+08	1,300166E+09	1,300163E+09	9,709019E+08	5,424978E+08
2152	1,940987E+08	1,910405E+07	0,000000E+00	0,000000E+00	1,910610E+07	1,941076E+08	5,425133E+08	9,709455E+08	1,300223E+09	1,300196E+09	9,708894E+08	5,424641E+08
2153	1,940729E+08	1,909542E+07	0,000000E+00	0,000000E+00	1,909421E+07	1,940702E+08	5,424621E+08	9,708951E+08	1,300217E+09	1,300249E+09	9,709667E+08	5,425209E+08
2154	1,941034E+08	1,910277E+07	0,000000E+00	0,000000E+00	1,909976E+07	1,940953E+08	5,425095E+08	9,709323E+08	1,300202E+09	1,300199E+09	9,709199E+08	5,424910E+08
2155	1,940826E+08	1,909776E+07	0,000000E+00	0,000000E+00	1,910130E+07	1,940975E+08	5,425077E+08	9,709398E+08	1,300217E+09	1,300200E+09	9,709044E+08	5,424791E+08
2156	1,940801E+08	1,909635E+07	0,000000E+00	0,000000E+00	1,909574E+07	1,940721E+08	5,424654E+08	9,708914E+08	1,300186E+09	1,300201E+09	9,709354E+08	5,425184E+08
2157	1,941121E+08	1,910741E+07	0,000000E+00	0,000000E+00	1,910716E+07	1,941088E+08	5,425095E+08	9,709199E+08	1,300174E+09	1,300140E+09	9,708517E+08	5,424550E+08
2158	1,940787E+08	1,910112E+07	0,000000E+00	0,000000E+00	1,910529E+07	1,940954E+08	5,424721E+08	9,708564E+08	1,300119E+09	1,300123E+09	9,708624E+08	5,424750E+08
2159	1,940995E+08	1,910903E+07	0,000000E+00	0,000000E+00	1,910750E+07	1,940893E+08	5,424542E+08	9,708136E+08	1,300050E+09	1,300061E+09	9,708442E+08	5,424905E+08
2160	1,941189E+08	1,911672E+07	0,000000E+00	0,000000E+00	1,911978E+07	1,941286E+08	5,424920E+08	9,708297E+08	1,300028E+09	1,299997E+09	9,707622E+08	5,424314E+08
2161	1,940919E+08	1,911296E+07	0,000000E+00	0,000000E+00	1,911560E+07	1,941018E+08	5,424367E+08	9,707509E+08	1,299969E+09	1,299987E+09	9,707932E+08	5,424747E+08
2162	1,941284E+08	1,912449E+07	0,000000E+00	0,000000E+00	1,912185E+07	1,941187E+08	5,424614E+08	9,707551E+08	1,299925E+09	1,299916E+09	9,707369E+08	5,424513E+08
2163	1,941209E+08	1,912479E+07	0,000000E+00	0,000000E+00	1,912841E+07	1,941341E+08	5,424673E+08	9,707606E+08	1,299932E+09	1,299904E+09	9,707006E+08	5,424197E+08
2164	1,941081E+08	1,912280E+07	0,000000E+00	0,000000E+00	1,912188E+07	1,941009E+08	5,424081E+08	9,706908E+08	1,299898E+09	1,299928E+09	9,707618E+08	5,424744E+08
2165	1,941420E+08	1,913137E+07	0,000000E+00	0,000000E+00	1,912886E+07	1,941332E+08	5,424598E+08	9,707373E+08	1,299903E+09	1,299887E+09	9,707032E+08	5,424258E+08
2166	1,941079E+08	1,912306E+07	0,000000E+00	0,000000E+00	1,912714E+07	1,941265E+08	5,424497E+08	9,707314E+08	1,299913E+09	1,299917E+09	9,707317E+08	5,424398E+08
2167	1,941122E+08	1,912096E+07	0,000000E+00	0,000000E+00	1,911875E+07	1,941020E+08	5,424305E+08	9,707305E+08	1,299928E+09	1,299945E+09	9,707754E+08	5,424773E+08
2168	1,941314E+08	1,912449E+07	0,000000E+00	0,000000E+00	1,912470E+07	1,941348E+08	5,424893E+08	9,708113E+08	1,299997E+09	1,299967E+09	9,707438E+08	5,424264E+08
2169	1,940926E+08	1,911348E+07	0,000000E+00	0,000000E+00	1,911414E+07	1,941001E+08	5,424469E+08	9,707882E+08	1,300031E+09	1,300048E+09	9,708244E+08	5,424742E+08
2170	1,941138E+08	1,911539E+07	0,000000E+00	0,000000E+00	1,911071E+07	1,940982E+08	5,424622E+08	9,708131E+08	1,300041E+09	1,300048E+09	9,708296E+08	5,424788E+08
2171	1,941116E+08	1,911486E+07	0,000000E+00	0,000000E+00	1,911622E+07	1,941197E+08	5,424927E+08	9,708617E+08	1,300096E+09	1,300073E+09	9,708097E+08	5,424428E+08
2172	1,940840E+08	1,910525E+07	0,000000E+00	0,000000E+00	1,910525E+07	1,940847E+08	5,424434E+08	9,708129E+08	1,300085E+09	1,300118E+09	9,708846E+08	5,425022E+08
2173	1,941168E+08	1,911314E+07	0,000000E+00	0,000000E+00	1,911072E+07	1,941083E+08	5,424917E+08	9,708644E+08	1,300090E+09	1,300072E+09	9,708303E+08	5,424653E+08
2174	1,940941E+08	1,910807E+07	0,000000E+00	0,000000E+00	1,911242E+07	1,941116E+08	5,424894E+08	9,708636E+08	1,300098E+09	1,300078E+09	9,708188E+08	5,424529E+08
2175	1,940903E+08	1,910663E+07	0,000000E+00	0,000000E+00	1,910648E+07	1,940833E+08	5,424386E+08	9,707979E+08	1,300047E+09	1,300066E+09	9,708483E+08	5,424948E+08
2176	1,941257E+08	1,911896E+07	0,000000E+00	0,000000E+00	1,911845E+07	1,941215E+08	5,424829E+08	9,708211E+08	1,300027E+09	1,300004E+09	9,707712E+08	5,424359E+08
2177	1,940946E+08	1,911387E+07	0,000000E+00	0,000000E+00	1,911734E+07	1,941092E+08	5,424440E+08	9,707536E+08	1,299968E+09	1,299981E+09	9,707754E+08	5,424559E+08
2178	1,941159E+08	1,912150E+07	0,000000E+00	0,000000E+00	1,911976E+07	1,941065E+08	5,424334E+08	9,707121E+08	1,299885E+09	1,299896E+09	9,707396E+08	5,424638E+08
2179	1,941347E+08	1,912959E+07	0,000000E+00	0,000000E+00	1,913223E+07	1,941439E+08	5,424729E+08	9,707437E+08	1,299884E+09	1,299843E+09	9,706553E+08	5,424021E+08
2180	1,941061E+08	1,912516E+07	0,000000E+00	0,000000E+00	1,912816E+07	1,941156E+08	5,424112E+08	9,706606E+08	1,299832E+09	1,299846E+09	9,706982E+08	5,424495E+08
2181	1,941432E+08	1,913662E+07	0,000000E+00	0,000000E+00	1,913354E+07	1,941296E+08	5,424336E+08	9,706709E+08	1,299802E+09	1,299787E+09	9,706469E+08	5,424233E+08
2182	1,941322E+08	1,913608E+07	0,000000E+00	0,000000E+00	1,914028E+07	1,941484E+08	5,424430E+08	9,706704E+08	1,299799E+09	1,299779E+09	9,706200E+08	5,423958E+08
2183	1,941172E+08	1,913264E+07	0,000000E+00	0,000000E+00	1,913270E+07	1,941149E+08	5,423859E+08	9,705978E+08	1,299755E+09	1,299792E+09	9,706796E+08	5,424541E+08
2184	1,941535E+08	1,914112E+07	0,000000E+00	0,000000E+00	1,913904E+07	1,941472E+08	5,424459E+08	9,706618E+08	1,299776E+09	1,299765E+09	9,706306E+08	5,424093E+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°
2185	1,941213E+08	1,913329E+07	0,000000E+00	0,000000E+00	1,913649E+07	1,941366E+08	5,424310E+08	9,706637E+08	1,299809E+09	1,299808E+09	9,706601E+08	5,424231E+08
2186	1,941257E+08	1,913076E+07	0,000000E+00	0,000000E+00	1,912731E+07	1,941121E+08	5,424113E+08	9,706569E+08	1,299816E+09	1,299832E+09	9,706986E+08	5,424554E+08
2187	1,941441E+08	1,913502E+07	0,000000E+00	0,000000E+00	1,913367E+07	1,941431E+08	5,424679E+08	9,707391E+08	1,299890E+09	1,299860E+09	9,706705E+08	5,424055E+08
2188	1,941036E+08	1,912326E+07	0,000000E+00	0,000000E+00	1,912405E+07	1,941103E+08	5,424208E+08	9,707039E+08	1,299912E+09	1,299936E+09	9,707555E+08	5,424575E+08
2189	1,941252E+08	1,912513E+07	0,000000E+00	0,000000E+00	1,912097E+07	1,941105E+08	5,424430E+08	9,707390E+08	1,299924E+09	1,299929E+09	9,707520E+08	5,424566E+08
2190	1,941206E+08	1,912402E+07	0,000000E+00	0,000000E+00	1,912706E+07	1,941354E+08	5,424801E+08	9,707895E+08	1,299972E+09	1,299947E+09	9,707284E+08	5,424194E+08
2191	1,940922E+08	1,911397E+07	0,000000E+00	0,000000E+00	1,911545E+07	1,940975E+08	5,424255E+08	9,707348E+08	1,299956E+09	1,299983E+09	9,707962E+08	5,424793E+08
2192	1,941295E+08	1,912350E+07	0,000000E+00	0,000000E+00	1,912103E+07	1,941195E+08	5,424696E+08	9,707815E+08	1,299965E+09	1,299951E+09	9,707523E+08	5,424452E+08
2193	1,941095E+08	1,912002E+07	0,000000E+00	0,000000E+00	1,912302E+07	1,941207E+08	5,424579E+08	9,707683E+08	1,299965E+09	1,299951E+09	9,707379E+08	5,424328E+08
2194	1,941059E+08	1,911895E+07	0,000000E+00	0,000000E+00	1,911797E+07	1,940972E+08	5,424106E+08	9,706917E+08	1,299888E+09	1,299914E+09	9,707524E+08	5,424691E+08
2195	1,941406E+08	1,913185E+07	0,000000E+00	0,000000E+00	1,913091E+07	1,941378E+08	5,424628E+08	9,707257E+08	1,299871E+09	1,299847E+09	9,706686E+08	5,424090E+08
2196	1,941080E+08	1,912584E+07	0,000000E+00	0,000000E+00	1,913052E+07	1,941266E+08	5,424251E+08	9,706648E+08	1,299821E+09	1,299828E+09	9,706762E+08	5,424306E+08
2197	1,941302E+08	1,913349E+07	0,000000E+00	0,000000E+00	1,913223E+07	1,941216E+08	5,424162E+08	9,706400E+08	1,299763E+09	1,299758E+09	9,706410E+08	5,424338E+08
2198	1,941464E+08	1,914109E+07	0,000000E+00	0,000000E+00	1,914448E+07	1,941589E+08	5,424525E+08	9,706621E+08	1,299760E+09	1,299717E+09	9,705689E+08	5,423756E+08
2199	1,941170E+08	1,913622E+07	0,000000E+00	0,000000E+00	1,913950E+07	1,941269E+08	5,423824E+08	9,705648E+08	1,299693E+09	1,299715E+09	9,706157E+08	5,424288E+08
2200	1,941574E+08	1,914807E+07	0,000000E+00	0,000000E+00	1,914464E+07	1,941412E+08	5,424042E+08	9,705705E+08	1,299660E+09	1,299662E+09	9,705752E+08	5,424081E+08
2201	1,941479E+08	1,914795E+07	0,000000E+00	0,000000E+00	1,915110E+07	1,941600E+08	5,424156E+08	9,705732E+08	1,299657E+09	1,299647E+09	9,705431E+08	5,423808E+08
2202	1,941322E+08	1,914349E+07	0,000000E+00	0,000000E+00	1,914304E+07	1,941290E+08	5,423675E+08	9,705101E+08	1,299608E+09	1,299643E+09	9,705867E+08	5,424307E+08
2203	1,941670E+08	1,915200E+07	0,000000E+00	0,000000E+00	1,914897E+07	1,941586E+08	5,424294E+08	9,705911E+08	1,299656E+09	1,299632E+09	9,705385E+08	5,423840E+08
2204	1,941330E+08	1,914343E+07	0,000000E+00	0,000000E+00	1,914665E+07	1,941475E+08	5,424100E+08	9,705907E+08	1,299699E+09	1,299694E+09	9,705812E+08	5,424002E+08
2205	1,941369E+08	1,914078E+07	0,000000E+00	0,000000E+00	1,913703E+07	1,941220E+08	5,423912E+08	9,705917E+08	1,299716E+09	1,299727E+09	9,706231E+08	5,424293E+08
2206	1,941514E+08	1,914424E+07	0,000000E+00	0,000000E+00	1,914407E+07	1,941569E+08	5,424503E+08	9,706657E+08	1,299780E+09	1,299755E+09	9,706036E+08	5,423851E+08
2207	1,941105E+08	1,913159E+07	0,000000E+00	0,000000E+00	1,913388E+07	1,941238E+08	5,424047E+08	9,706275E+08	1,299788E+09	1,299817E+09	9,706834E+08	5,424406E+08
2208	1,941356E+08	1,913388E+07	0,000000E+00	0,000000E+00	1,913061E+07	1,941225E+08	5,424273E+08	9,706674E+08	1,299809E+09	1,299818E+09	9,706856E+08	5,424429E+08
2209	1,941346E+08	1,913409E+07	0,000000E+00	0,000000E+00	1,913622E+07	1,941441E+08	5,424580E+08	9,707161E+08	1,299862E+09	1,299836E+09	9,706571E+08	5,424043E+08
2210	1,941069E+08	1,912445E+07	0,000000E+00	0,000000E+00	1,912496E+07	1,941080E+08	5,424012E+08	9,706467E+08	1,299822E+09	1,299850E+09	9,707095E+08	5,424557E+08
2211	1,941438E+08	1,913528E+07	0,000000E+00	0,000000E+00	1,913145E+07	1,941290E+08	5,424422E+08	9,706907E+08	1,299828E+09	1,299814E+09	9,706617E+08	5,424213E+08
2212	1,941232E+08	1,913173E+07	0,000000E+00	0,000000E+00	1,913516E+07	1,941349E+08	5,424301E+08	9,706687E+08	1,299816E+09	1,299807E+09	9,706465E+08	5,424096E+08
2213	1,941197E+08	1,913091E+07	0,000000E+00	0,000000E+00	1,913046E+07	1,941134E+08	5,423919E+08	9,706067E+08	1,299744E+09	1,299762E+09	9,706506E+08	5,424382E+08
2214	1,941506E+08	1,914302E+07	0,000000E+00	0,000000E+00	1,914386E+07	1,941563E+08	5,424490E+08	9,706455E+08	1,299731E+09	1,299699E+09	9,705700E+08	5,423802E+08
2215	1,941184E+08	1,913681E+07	0,000000E+00	0,000000E+00	1,914262E+07	1,941410E+08	5,424037E+08	9,705790E+08	1,299682E+09	1,299682E+09	9,705784E+08	5,424046E+08
2216	1,941443E+08	1,914545E+07	0,000000E+00	0,000000E+00	1,914396E+07	1,941332E+08	5,423881E+08	9,705460E+08	1,299630E+09	1,299635E+09	9,705620E+08	5,424137E+08
2217	1,941630E+08	1,915408E+07	0,000000E+00	0,000000E+00	1,915582E+07	1,941684E+08	5,424178E+08	9,705591E+08	1,299619E+09	1,299590E+09	9,704919E+08	5,423591E+08
2218	1,941339E+08	1,914893E+07	0,000000E+00	0,000000E+00	1,915128E+07	1,941409E+08	5,423526E+08	9,704542E+08	1,299528E+09	1,299562E+09	9,705241E+08	5,424074E+08
2219	1,941730E+08	1,916054E+07	0,000000E+00	0,000000E+00	1,915640E+07	1,941558E+08	5,423827E+08	9,704773E+08	1,299508E+09	1,299509E+09	9,704790E+08	5,423859E+08
2220	1,941619E+08	1,915915E+07	0,000000E+00	0,000000E+00	1,916302E+07	1,941756E+08	5,423975E+08	9,704921E+08	1,299522E+09	1,299505E+09	9,704512E+08	5,423578E+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	1,941451E+08	1,915405E+07	0,000000E+00	0,000000E+00	1,915369E+07	1,941424E+08	5,423549E+08	9,704514E+08	1,299502E+09	1,299521E+09	9,704963E+08	5,424003E+08
2222	1,941744E+08	1,916133E+07	0,000000E+00	0,000000E+00	1,915935E+07	1,941721E+08	5,424156E+08	9,705287E+08	1,299556E+09	1,299528E+09	9,704650E+08	5,423591E+08
2223	1,941399E+08	1,915214E+07	0,000000E+00	0,000000E+00	1,915601E+07	1,941576E+08	5,423885E+08	9,705175E+08	1,299590E+09	1,299589E+09	9,705139E+08	5,423818E+08
2224	1,941467E+08	1,914976E+07	0,000000E+00	0,000000E+00	1,914647E+07	1,941330E+08	5,423691E+08	9,705120E+08	1,299606E+09	1,299632E+09	9,705677E+08	5,424176E+08
2225	1,941638E+08	1,915382E+07	0,000000E+00	0,000000E+00	1,915312E+07	1,941667E+08	5,424279E+08	9,705854E+08	1,299661E+09	1,299645E+09	9,705398E+08	5,423742E+08
2226	1,941240E+08	1,914097E+07	0,000000E+00	0,000000E+00	1,914297E+07	1,941352E+08	5,423860E+08	9,705480E+08	1,299655E+09	1,299680E+09	9,705989E+08	5,424212E+08
2227	1,941496E+08	1,914432E+07	0,000000E+00	0,000000E+00	1,913993E+07	1,941312E+08	5,424050E+08	9,705922E+08	1,299688E+09	1,299686E+09	9,705965E+08	5,424210E+08
2228	1,941483E+08	1,914475E+07	0,000000E+00	0,000000E+00	1,914645E+07	1,941534E+08	5,424297E+08	9,706293E+08	1,299735E+09	1,299709E+09	9,705724E+08	5,423815E+08
2229	1,941205E+08	1,913579E+07	0,000000E+00	0,000000E+00	1,913582E+07	1,941196E+08	5,423784E+08	9,705670E+08	1,299695E+09	1,299718E+09	9,706178E+08	5,424249E+08
2230	1,941524E+08	1,914609E+07	0,000000E+00	0,000000E+00	1,914371E+07	1,941461E+08	5,424234E+08	9,706035E+08	1,299690E+09	1,299677E+09	9,705730E+08	5,423943E+08
2231	1,941320E+08	1,914208E+07	0,000000E+00	0,000000E+00	1,914723E+07	1,941522E+08	5,424135E+08	9,705831E+08	1,299673E+09	1,299661E+09	9,705530E+08	5,423850E+08
2232	1,941318E+08	1,914191E+07	0,000000E+00	0,000000E+00	1,914254E+07	1,941292E+08	5,423740E+08	9,705253E+08	1,299616E+09	1,299635E+09	9,705686E+08	5,424184E+08
2233	1,941659E+08	1,915493E+07	0,000000E+00	0,000000E+00	1,915494E+07	1,941676E+08	5,424234E+08	9,705601E+08	1,299606E+09	1,299574E+09	9,704904E+08	5,423634E+08
2234	1,941357E+08	1,914927E+07	0,000000E+00	0,000000E+00	1,915394E+07	1,941525E+08	5,423742E+08	9,704791E+08	1,299534E+09	1,299539E+09	9,704891E+08	5,423834E+08
2235	1,941617E+08	1,915878E+07	0,000000E+00	0,000000E+00	1,915565E+07	1,941434E+08	5,423545E+08	9,704423E+08	1,299479E+09	1,299488E+09	9,704712E+08	5,423940E+08
2236	1,941795E+08	1,916678E+07	0,000000E+00	0,000000E+00	1,916848E+07	1,941826E+08	5,423865E+08	9,704498E+08	1,299458E+09	1,299438E+09	9,703999E+08	5,423384E+08
2237	1,941494E+08	1,916115E+07	0,000000E+00	0,000000E+00	1,916384E+07	1,941580E+08	5,423366E+08	9,703695E+08	1,299379E+09	1,299403E+09	9,704187E+08	5,423756E+08
2238	1,941822E+08	1,917096E+07	0,000000E+00	0,000000E+00	1,916863E+07	1,941740E+08	5,423710E+08	9,704043E+08	1,299377E+09	1,299364E+09	9,703806E+08	5,423561E+08
2239	1,941705E+08	1,916882E+07	0,000000E+00	0,000000E+00	1,917371E+07	1,941892E+08	5,423808E+08	9,704216E+08	1,299405E+09	1,299377E+09	9,703615E+08	5,423314E+08
2240	1,941557E+08	1,916394E+07	0,000000E+00	0,000000E+00	1,916356E+07	1,941527E+08	5,423322E+08	9,703766E+08	1,299401E+09	1,299425E+09	9,704307E+08	5,423811E+08
2241	1,941862E+08	1,917159E+07	0,000000E+00	0,000000E+00	1,916836E+07	1,941800E+08	5,423887E+08	9,704492E+08	1,299449E+09	1,299432E+09	9,704077E+08	5,423476E+08
2242	1,941533E+08	1,916223E+07	0,000000E+00	0,000000E+00	1,916524E+07	1,941685E+08	5,423648E+08	9,704302E+08	1,299460E+09	1,299468E+09	9,704428E+08	5,423661E+08
2243	1,941595E+08	1,915976E+07	0,000000E+00	0,000000E+00	1,915573E+07	1,941433E+08	5,423492E+08	9,704358E+08	1,299483E+09	1,299506E+09	9,704911E+08	5,424026E+08
2244	1,941770E+08	1,916342E+07	0,000000E+00	0,000000E+00	1,916281E+07	1,941772E+08	5,424071E+08	9,705113E+08	1,299544E+09	1,299524E+09	9,704622E+08	5,423569E+08
2245	1,941377E+08	1,915090E+07	0,000000E+00	0,000000E+00	1,915244E+07	1,941459E+08	5,423699E+08	9,704844E+08	1,299547E+09	1,299559E+09	9,705107E+08	5,423926E+08
2246	1,941581E+08	1,915384E+07	0,000000E+00	0,000000E+00	1,915035E+07	1,941439E+08	5,423856E+08	9,705180E+08	1,299573E+09	1,299569E+09	9,705164E+08	5,423956E+08
2247	1,941570E+08	1,915438E+07	0,000000E+00	0,000000E+00	1,915688E+07	1,941654E+08	5,424050E+08	9,705429E+08	1,299605E+09	1,299581E+09	9,704902E+08	5,423590E+08
2248	1,941316E+08	1,914618E+07	0,000000E+00	0,000000E+00	1,914719E+07	1,941346E+08	5,423555E+08	9,704759E+08	1,299565E+09	1,299599E+09	9,705422E+08	5,424051E+08
2249	1,941646E+08	1,915695E+07	0,000000E+00	0,000000E+00	1,915484E+07	1,941604E+08	5,424037E+08	9,705177E+08	1,299554E+09	1,299544E+09	9,704909E+08	5,423765E+08
2250	1,941468E+08	1,915333E+07	0,000000E+00	0,000000E+00	1,915851E+07	1,941667E+08	5,423932E+08	9,704950E+08	1,299527E+09	1,299508E+09	9,704542E+08	5,423607E+08
2251	1,941475E+08	1,915443E+07	0,000000E+00	0,000000E+00	1,915411E+07	1,941407E+08	5,423479E+08	9,704369E+08	1,299479E+09	1,299489E+09	9,704709E+08	5,423957E+08
2252	1,941828E+08	1,916776E+07	0,000000E+00	0,000000E+00	1,916716E+07	1,941790E+08	5,423898E+08	9,704571E+08	1,299460E+09	1,299433E+09	9,703988E+08	5,423415E+08
2253	1,941531E+08	1,916265E+07	0,000000E+00	0,000000E+00	1,916674E+07	1,941669E+08	5,423483E+08	9,703832E+08	1,299382E+09	1,299386E+09	9,703882E+08	5,423536E+08
2254	1,941735E+08	1,917093E+07	0,000000E+00	0,000000E+00	1,916926E+07	1,941627E+08	5,423336E+08	9,703449E+08	1,299324E+09	1,299335E+09	9,703741E+08	5,423667E+08
2255	1,941900E+08	1,917766E+07	0,000000E+00	0,000000E+00	1,918083E+07	1,941998E+08	5,423685E+08	9,703614E+08	1,299309E+09	1,299284E+09	9,703010E+08	5,423125E+08
2256	1,941616E+08	1,917199E+07	0,000000E+00	0,000000E+00	1,917554E+07	1,941737E+08	5,423195E+08	9,702932E+08	1,299261E+09	1,299283E+09	9,703355E+08	5,423523E+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	1,941945E+08	1,918158E+07	0,000000E+00	0,000000E+00	1,917844E+07	1,941845E+08	5,423495E+08	9,703304E+08	1,299269E+09	1,299255E+09	9,703068E+08	5,423375E+08
2258	1,941843E+08	1,917955E+07	0,000000E+00	0,000000E+00	1,918304E+07	1,941981E+08	5,423551E+08	9,703385E+08	1,299284E+09	1,299260E+09	9,702870E+08	5,423127E+08
2259	1,941699E+08	1,917510E+07	0,000000E+00	0,000000E+00	1,917297E+07	1,941608E+08	5,423044E+08	9,702932E+08	1,299282E+09	1,299310E+09	9,703609E+08	5,423674E+08
2260	1,942002E+08	1,918200E+07	0,000000E+00	0,000000E+00	1,917830E+07	1,941904E+08	5,423613E+08	9,703581E+08	1,299319E+09	1,299314E+09	9,703384E+08	5,423346E+08
2261	1,941676E+08	1,917239E+07	0,000000E+00	0,000000E+00	1,917513E+07	1,941812E+08	5,423516E+08	9,703608E+08	1,299336E+09	1,299337E+09	9,703565E+08	5,423414E+08
2262	1,941680E+08	1,916853E+07	0,000000E+00	0,000000E+00	1,916601E+07	1,941574E+08	5,423350E+08	9,703681E+08	1,299368E+09	1,299382E+09	9,704062E+08	5,423770E+08
2263	1,941850E+08	1,917199E+07	0,000000E+00	0,000000E+00	1,917211E+07	1,941873E+08	5,423859E+08	9,704380E+08	1,299431E+09	1,299405E+09	9,703786E+08	5,423318E+08
2264	1,941479E+08	1,916035E+07	0,000000E+00	0,000000E+00	1,916229E+07	1,941570E+08	5,423461E+08	9,704055E+08	1,299441E+09	1,299460E+09	9,704404E+08	5,423706E+08
2265	1,941688E+08	1,916396E+07	0,000000E+00	0,000000E+00	1,916016E+07	1,941550E+08	5,423613E+08	9,704343E+08	1,299454E+09	1,299458E+09	9,704468E+08	5,423788E+08
2266	1,941700E+08	1,916489E+07	0,000000E+00	0,000000E+00	1,916735E+07	1,941798E+08	5,423849E+08	9,704535E+08	1,299464E+09	1,299443E+09	9,704054E+08	5,423391E+08
2267	1,941456E+08	1,915744E+07	0,000000E+00	0,000000E+00	1,915820E+07	1,941485E+08	5,423379E+08	9,703970E+08	1,299432E+09	1,299457E+09	9,704531E+08	5,423861E+08
2268	1,941793E+08	1,916816E+07	0,000000E+00	0,000000E+00	1,916622E+07	1,941733E+08	5,423811E+08	9,704343E+08	1,299424E+09	1,299410E+09	9,704032E+08	5,423565E+08
2269	1,941633E+08	1,916543E+07	0,000000E+00	0,000000E+00	1,916995E+07	1,941796E+08	5,423739E+08	9,704161E+08	1,299397E+09	1,299370E+09	9,703566E+08	5,423306E+08
2270	1,941594E+08	1,916627E+07	0,000000E+00	0,000000E+00	1,916673E+07	1,941553E+08	5,423219E+08	9,703437E+08	1,299341E+09	1,299352E+09	9,703807E+08	5,423698E+08
2271	1,941953E+08	1,917950E+07	0,000000E+00	0,000000E+00	1,917937E+07	1,941923E+08	5,423585E+08	9,703523E+08	1,299306E+09	1,299285E+09	9,703057E+08	5,423182E+08
2272	1,941676E+08	1,917484E+07	0,000000E+00	0,000000E+00	1,917972E+07	1,941836E+08	5,423211E+08	9,702782E+08	1,299232E+09	1,299246E+09	9,702984E+08	5,423306E+08
2273	1,941876E+08	1,918278E+07	0,000000E+00	0,000000E+00	1,918105E+07	1,941780E+08	5,423130E+08	9,702536E+08	1,299177E+09	1,299188E+09	9,702819E+08	5,423455E+08
2274	1,942052E+08	1,918927E+07	0,000000E+00	0,000000E+00	1,919182E+07	1,942131E+08	5,423470E+08	9,702732E+08	1,299164E+09	1,299131E+09	9,702008E+08	5,422868E+08
2275	1,941767E+08	1,918414E+07	0,000000E+00	0,000000E+00	1,918607E+07	1,941836E+08	5,422942E+08	9,702106E+08	1,299136E+09	1,299150E+09	9,702465E+08	5,423296E+08
2276	1,942088E+08	1,919321E+07	0,000000E+00	0,000000E+00	1,918904E+07	1,941941E+08	5,423198E+08	9,702402E+08	1,299144E+09	1,299139E+09	9,702314E+08	5,423184E+08
2277	1,941993E+08	1,919133E+07	0,000000E+00	0,000000E+00	1,919382E+07	1,942106E+08	5,423346E+08	9,702567E+08	1,299157E+09	1,299136E+09	9,702046E+08	5,422876E+08
2278	1,941792E+08	1,918517E+07	0,000000E+00	0,000000E+00	1,918447E+07	1,941775E+08	5,422886E+08	9,702145E+08	1,299157E+09	1,299187E+09	9,702829E+08	5,423455E+08
2279	1,942086E+08	1,919068E+07	0,000000E+00	0,000000E+00	1,918835E+07	1,942038E+08	5,423457E+08	9,702862E+08	1,299199E+09	1,299189E+09	9,702584E+08	5,423145E+08
2280	1,941780E+08	1,918114E+07	0,000000E+00	0,000000E+00	1,918486E+07	1,941935E+08	5,423345E+08	9,702943E+08	1,299239E+09	1,299239E+09	9,702864E+08	5,423211E+08
2281	1,941780E+08	1,917723E+07	0,000000E+00	0,000000E+00	1,917452E+07	1,941669E+08	5,423163E+08	9,703003E+08	1,299268E+09	1,299283E+09	9,703408E+08	5,423601E+08
2282	1,941968E+08	1,918134E+07	0,000000E+00	0,000000E+00	1,918063E+07	1,941955E+08	5,423613E+08	9,703564E+08	1,299311E+09	1,299289E+09	9,703054E+08	5,423130E+08
2283	1,941607E+08	1,917080E+07	0,000000E+00	0,000000E+00	1,917185E+07	1,941673E+08	5,423220E+08	9,703227E+08	1,299317E+09	1,299337E+09	9,703648E+08	5,423536E+08
2284	1,941817E+08	1,917442E+07	0,000000E+00	0,000000E+00	1,917090E+07	1,941685E+08	5,423391E+08	9,703451E+08	1,299320E+09	1,299329E+09	9,703662E+08	5,423602E+08
2285	1,941844E+08	1,917591E+07	0,000000E+00	0,000000E+00	1,917835E+07	1,941951E+08	5,423740E+08	9,703810E+08	1,299331E+09	1,299298E+09	9,703070E+08	5,423102E+08
2286	1,941562E+08	1,916807E+07	0,000000E+00	0,000000E+00	1,917023E+07	1,941644E+08	5,423216E+08	9,703216E+08	1,299306E+09	1,299319E+09	9,703575E+08	5,423579E+08
2287	1,941905E+08	1,917892E+07	0,000000E+00	0,000000E+00	1,917729E+07	1,941839E+08	5,423531E+08	9,703440E+08	1,299291E+09	1,299274E+09	9,703109E+08	5,423312E+08
2288	1,941777E+08	1,917749E+07	0,000000E+00	0,000000E+00	1,918200E+07	1,941920E+08	5,423418E+08	9,703160E+08	1,299265E+09	1,299250E+09	9,702759E+08	5,423080E+08
2289	1,941739E+08	1,917872E+07	0,000000E+00	0,000000E+00	1,917880E+07	1,941693E+08	5,422926E+08	9,702381E+08	1,299189E+09	1,299213E+09	9,702971E+08	5,423508E+08
2290	1,942111E+08	1,919179E+07	0,000000E+00	0,000000E+00	1,919130E+07	1,942070E+08	5,423324E+08	9,702456E+08	1,299140E+09	1,299123E+09	9,702069E+08	5,422953E+08
2291	1,941839E+08	1,918760E+07	0,000000E+00	0,000000E+00	1,919189E+07	1,941989E+08	5,423011E+08	9,701898E+08	1,299083E+09	1,299088E+09	9,701985E+08	5,423079E+08
2292	1,942032E+08	1,919495E+07	0,000000E+00	0,000000E+00	1,919276E+07	1,941913E+08	5,422894E+08	9,701658E+08	1,299043E+09	1,299048E+09	9,701882E+08	5,423214E+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	1,942211E+08	1,920164E+07	0,000000E+00	0,000000E+00	1,920297E+07	1,942260E+08	5,423299E+08	9,701961E+08	1,299037E+09	1,298997E+09	9,701068E+08	5,422571E+08
2294	1,941877E+08	1,919556E+07	0,000000E+00	0,000000E+00	1,919796E+07	1,941976E+08	5,422723E+08	9,701283E+08	1,299013E+09	1,299029E+09	9,701661E+08	5,423050E+08
2295	1,942185E+08	1,920332E+07	0,000000E+00	0,000000E+00	1,919984E+07	1,942063E+08	5,422943E+08	9,701511E+08	1,299015E+09	1,299016E+09	9,701551E+08	5,422989E+08
2296	1,942106E+08	1,920133E+07	0,000000E+00	0,000000E+00	1,920491E+07	1,942253E+08	5,423140E+08	9,701735E+08	1,299039E+09	1,299028E+09	9,701351E+08	5,422693E+08
2297	1,941895E+08	1,919420E+07	0,000000E+00	0,000000E+00	1,919408E+07	1,941906E+08	5,422740E+08	9,701437E+08	1,299041E+09	1,299070E+09	9,702102E+08	5,423289E+08
2298	1,942202E+08	1,919953E+07	0,000000E+00	0,000000E+00	1,919681E+07	1,942121E+08	5,423246E+08	9,702119E+08	1,299081E+09	1,299065E+09	9,701770E+08	5,422938E+08
2299	1,941909E+08	1,919107E+07	0,000000E+00	0,000000E+00	1,919342E+07	1,942008E+08	5,423109E+08	9,702209E+08	1,299128E+09	1,299123E+09	9,702110E+08	5,423026E+08
2300	1,941907E+08	1,918737E+07	0,000000E+00	0,000000E+00	1,918374E+07	1,941754E+08	5,422896E+08	9,702167E+08	1,299151E+09	1,299173E+09	9,702702E+08	5,423419E+08
2301	1,942103E+08	1,919217E+07	0,000000E+00	0,000000E+00	1,919063E+07	1,942084E+08	5,423459E+08	9,702788E+08	1,299184E+09	1,299162E+09	9,702223E+08	5,422878E+08
2302	1,941701E+08	1,918083E+07	0,000000E+00	0,000000E+00	1,918328E+07	1,941843E+08	5,423095E+08	9,702482E+08	1,299192E+09	1,299210E+09	9,702815E+08	5,423289E+08
2303	1,941905E+08	1,918377E+07	0,000000E+00	0,000000E+00	1,918159E+07	1,941822E+08	5,423230E+08	9,702719E+08	1,299198E+09	1,299201E+09	9,702809E+08	5,423374E+08
2304	1,941963E+08	1,918615E+07	0,000000E+00	0,000000E+00	1,918928E+07	1,942077E+08	5,423516E+08	9,703039E+08	1,299223E+09	1,299190E+09	9,702288E+08	5,422873E+08
2305	1,941685E+08	1,917887E+07	0,000000E+00	0,000000E+00	1,918078E+07	1,941755E+08	5,422969E+08	9,702363E+08	1,299183E+09	1,299202E+09	9,702819E+08	5,423397E+08
2306	1,942059E+08	1,919068E+07	0,000000E+00	0,000000E+00	1,918792E+07	1,941927E+08	5,423191E+08	9,702392E+08	1,299141E+09	1,299133E+09	9,702254E+08	5,423120E+08
2307	1,941948E+08	1,919046E+07	0,000000E+00	0,000000E+00	1,919386E+07	1,942045E+08	5,423102E+08	9,702076E+08	1,299103E+09	1,299094E+09	9,701854E+08	5,422899E+08
2308	1,941908E+08	1,919168E+07	0,000000E+00	0,000000E+00	1,919161E+07	1,941855E+08	5,422674E+08	9,701315E+08	1,299023E+09	1,299053E+09	9,701984E+08	5,423279E+08
2309	1,942277E+08	1,920465E+07	0,000000E+00	0,000000E+00	1,920386E+07	1,942243E+08	5,423190E+08	9,701582E+08	1,298981E+09	1,298952E+09	9,700918E+08	5,422610E+08
2310	1,941956E+08	1,919968E+07	0,000000E+00	0,000000E+00	1,920512E+07	1,942165E+08	5,422844E+08	9,701088E+08	1,298948E+09	1,298939E+09	9,700915E+08	5,422732E+08
2311	1,942134E+08	1,920610E+07	0,000000E+00	0,000000E+00	1,920457E+07	1,942044E+08	5,422650E+08	9,700798E+08	1,298914E+09	1,298916E+09	9,700951E+08	5,422924E+08
2312	1,942327E+08	1,921313E+07	0,000000E+00	0,000000E+00	1,921497E+07	1,942395E+08	5,423028E+08	9,701086E+08	1,298921E+09	1,298890E+09	9,700333E+08	5,422352E+08
2313	1,941991E+08	1,920647E+07	0,000000E+00	0,000000E+00	1,920918E+07	1,942121E+08	5,422519E+08	9,700439E+08	1,298887E+09	1,298914E+09	9,700980E+08	5,422902E+08
2314	1,942312E+08	1,921333E+07	0,000000E+00	0,000000E+00	1,920974E+07	1,942176E+08	5,422730E+08	9,700664E+08	1,298881E+09	1,298887E+09	9,700784E+08	5,422832E+08
2315	1,942245E+08	1,921156E+07	0,000000E+00	0,000000E+00	1,921437E+07	1,942357E+08	5,422953E+08	9,701012E+08	1,298920E+09	1,298903E+09	9,700606E+08	5,422548E+08
2316	1,942032E+08	1,920403E+07	0,000000E+00	0,000000E+00	1,920308E+07	1,941997E+08	5,422521E+08	9,700685E+08	1,298929E+09	1,298959E+09	9,701369E+08	5,423108E+08
2317	1,942339E+08	1,920971E+07	0,000000E+00	0,000000E+00	1,920548E+07	1,942209E+08	5,423072E+08	9,701405E+08	1,298967E+09	1,298949E+09	9,700975E+08	5,422691E+08
2318	1,942008E+08	1,920097E+07	0,000000E+00	0,000000E+00	1,920361E+07	1,942128E+08	5,422908E+08	9,701465E+08	1,299016E+09	1,299011E+09	9,701360E+08	5,422790E+08
2319	1,941993E+08	1,919648E+07	0,000000E+00	0,000000E+00	1,919370E+07	1,941875E+08	5,422677E+08	9,701346E+08	1,299027E+09	1,299053E+09	9,701935E+08	5,423205E+08
2320	1,942202E+08	1,920173E+07	0,000000E+00	0,000000E+00	1,920141E+07	1,942232E+08	5,423290E+08	9,702041E+08	1,299071E+09	1,299052E+09	9,701491E+08	5,422678E+08
2321	1,941803E+08	1,919019E+07	0,000000E+00	0,000000E+00	1,919342E+07	1,941982E+08	5,422965E+08	9,701799E+08	1,299076E+09	1,299089E+09	9,702039E+08	5,423095E+08
2322	1,942023E+08	1,919353E+07	0,000000E+00	0,000000E+00	1,919095E+07	1,941900E+08	5,422970E+08	9,701887E+08	1,299072E+09	1,299071E+09	9,701958E+08	5,423160E+08
2323	1,942110E+08	1,919761E+07	0,000000E+00	0,000000E+00	1,919938E+07	1,942161E+08	5,423220E+08	9,702132E+08	1,299090E+09	1,299060E+09	9,701487E+08	5,422696E+08
2324	1,941846E+08	1,919133E+07	0,000000E+00	0,000000E+00	1,919233E+07	1,941868E+08	5,422645E+08	9,701306E+08	1,299033E+09	1,299064E+09	9,701975E+08	5,423204E+08
2325	1,942231E+08	1,920380E+07	0,000000E+00	0,000000E+00	1,920029E+07	1,942085E+08	5,422977E+08	9,701379E+08	1,298977E+09	1,298971E+09	9,701232E+08	5,422842E+08
2326	1,942080E+08	1,920285E+07	0,000000E+00	0,000000E+00	1,920767E+07	1,942247E+08	5,422947E+08	9,701173E+08	1,298947E+09	1,298932E+09	9,700787E+08	5,422590E+08
2327	1,942021E+08	1,920302E+07	0,000000E+00	0,000000E+00	1,920435E+07	1,942023E+08	5,422499E+08	9,700482E+08	1,298881E+09	1,298899E+09	9,700932E+08	5,422968E+08
2328	1,942393E+08	1,921609E+07	0,000000E+00	0,000000E+00	1,921622E+07	1,942395E+08	5,422980E+08	9,700796E+08	1,298866E+09	1,298831E+09	9,700027E+08	5,422330E+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												
2329	1,942072E+08	1,921103E+07	0,000000E+00	0,000000E+00	1,921653E+07	1,942297E+08	5,422634E+08	9,700288E+08	1,298828E+09	1,298821E+09	9,700146E+08	5,422523E+08
2330	1,942263E+08	1,921733E+07	0,000000E+00	0,000000E+00	1,921509E+07	1,942134E+08	5,422337E+08	9,699845E+08	1,298778E+09	1,298790E+09	9,700180E+08	5,422751E+08
2331	1,942479E+08	1,922500E+07	0,000000E+00	0,000000E+00	1,922588E+07	1,942512E+08	5,422748E+08	9,700124E+08	1,298779E+09	1,298758E+09	9,699605E+08	5,422236E+08
2332	1,942153E+08	1,921804E+07	0,000000E+00	0,000000E+00	1,922014E+07	1,942250E+08	5,422291E+08	9,699526E+08	1,298745E+09	1,298779E+09	9,700191E+08	5,422752E+08
2333	1,942471E+08	1,922436E+07	0,000000E+00	0,000000E+00	1,921976E+07	1,942294E+08	5,422573E+08	9,699894E+08	1,298746E+09	1,298743E+09	9,699845E+08	5,422577E+08
2334	1,942360E+08	1,922187E+07	0,000000E+00	0,000000E+00	1,922475E+07	1,942472E+08	5,422751E+08	9,700268E+08	1,298802E+09	1,298777E+09	9,699719E+08	5,422267E+08
2335	1,942126E+08	1,921348E+07	0,000000E+00	0,000000E+00	1,921264E+07	1,942093E+08	5,422284E+08	9,699905E+08	1,298814E+09	1,298844E+09	9,700570E+08	5,422851E+08
2336	1,942430E+08	1,921940E+07	0,000000E+00	0,000000E+00	1,921578E+07	1,942328E+08	5,422832E+08	9,700633E+08	1,298862E+09	1,298849E+09	9,700291E+08	5,422474E+08
2337	1,942093E+08	1,921019E+07	0,000000E+00	0,000000E+00	1,921376E+07	1,942279E+08	5,422775E+08	9,700762E+08	1,298903E+09	1,298902E+09	9,700683E+08	5,422616E+08
2338	1,942089E+08	1,920531E+07	0,000000E+00	0,000000E+00	1,920311E+07	1,941994E+08	5,422519E+08	9,700632E+08	1,298908E+09	1,298931E+09	9,701176E+08	5,423028E+08
2339	1,942321E+08	1,921134E+07	0,000000E+00	0,000000E+00	1,921082E+07	1,942338E+08	5,423111E+08	9,701351E+08	1,298956E+09	1,298932E+09	9,700769E+08	5,422539E+08
2340	1,941946E+08	1,920068E+07	0,000000E+00	0,000000E+00	1,920309E+07	1,942078E+08	5,422733E+08	9,701011E+08	1,298959E+09	1,298974E+09	9,701295E+08	5,422925E+08
2341	1,942178E+08	1,920498E+07	0,000000E+00	0,000000E+00	1,920106E+07	1,941996E+08	5,422730E+08	9,701010E+08	1,298936E+09	1,298937E+09	9,701089E+08	5,422920E+08
2342	1,942241E+08	1,920935E+07	0,000000E+00	0,000000E+00	1,921133E+07	1,942294E+08	5,422947E+08	9,701173E+08	1,298947E+09	1,298920E+09	9,700579E+08	5,422437E+08
2343	1,941966E+08	1,920266E+07	0,000000E+00	0,000000E+00	1,920491E+07	1,942032E+08	5,422402E+08	9,700308E+08	1,298877E+09	1,298910E+09	9,700987E+08	5,422933E+08
2344	1,942353E+08	1,921535E+07	0,000000E+00	0,000000E+00	1,921340E+07	1,942265E+08	5,422781E+08	9,700506E+08	1,298837E+09	1,298826E+09	9,700250E+08	5,422563E+08
2345	1,942195E+08	1,921400E+07	0,000000E+00	0,000000E+00	1,922002E+07	1,942421E+08	5,422806E+08	9,700408E+08	1,298814E+09	1,298786E+09	9,699805E+08	5,422319E+08
2346	1,942147E+08	1,921444E+07	0,000000E+00	0,000000E+00	1,921540E+07	1,942126E+08	5,422230E+08	9,699596E+08	1,298746E+09	1,298758E+09	9,699978E+08	5,422704E+08
2347	1,942536E+08	1,922846E+07	0,000000E+00	0,000000E+00	1,922735E+07	1,942496E+08	5,422677E+08	9,699852E+08	1,298728E+09	1,298701E+09	9,699247E+08	5,422164E+08
2348	1,942243E+08	1,922425E+07	0,000000E+00	0,000000E+00	1,922836E+07	1,942415E+08	5,422321E+08	9,699264E+08	1,298684E+09	1,298692E+09	9,699381E+08	5,422368E+08
2349	1,942437E+08	1,923017E+07	0,000000E+00	0,000000E+00	1,922681E+07	1,942277E+08	5,422117E+08	9,698872E+08	1,298625E+09	1,298643E+09	9,699287E+08	5,422538E+08
2350	1,942619E+08	1,923674E+07	0,000000E+00	0,000000E+00	1,923802E+07	1,942672E+08	5,422568E+08	9,699290E+08	1,298641E+09	1,298616E+09	9,698692E+08	5,421997E+08
2351	1,942273E+08	1,922826E+07	0,000000E+00	0,000000E+00	1,923106E+07	1,942382E+08	5,422094E+08	9,698748E+08	1,298619E+09	1,298645E+09	9,699280E+08	5,422495E+08
2352	1,942577E+08	1,923412E+07	0,000000E+00	0,000000E+00	1,923004E+07	1,942409E+08	5,422352E+08	9,699188E+08	1,298645E+09	1,298637E+09	9,699077E+08	5,422339E+08
2353	1,942452E+08	1,923113E+07	0,000000E+00	0,000000E+00	1,923425E+07	1,942587E+08	5,422576E+08	9,699587E+08	1,298697E+09	1,298673E+09	9,699040E+08	5,422073E+08
2354	1,942219E+08	1,922236E+07	0,000000E+00	0,000000E+00	1,922133E+07	1,942175E+08	5,422031E+08	9,699107E+08	1,298698E+09	1,298732E+09	9,699872E+08	5,422668E+08
2355	1,942532E+08	1,922875E+07	0,000000E+00	0,000000E+00	1,922515E+07	1,942448E+08	5,422645E+08	9,699862E+08	1,298741E+09	1,298735E+09	9,699654E+08	5,422360E+08
2356	1,942225E+08	1,922009E+07	0,000000E+00	0,000000E+00	1,922332E+07	1,942402E+08	5,422616E+08	9,700037E+08	1,298784E+09	1,298782E+09	9,699950E+08	5,422462E+08
2357	1,942225E+08	1,921529E+07	0,000000E+00	0,000000E+00	1,921245E+07	1,942105E+08	5,422370E+08	9,699939E+08	1,298788E+09	1,298800E+09	9,700288E+08	5,422785E+08
2358	1,942436E+08	1,922158E+07	0,000000E+00	0,000000E+00	1,922100E+07	1,942440E+08	5,422880E+08	9,700588E+08	1,298840E+09	1,298809E+09	9,699898E+08	5,422278E+08
2359	1,942060E+08	1,921097E+07	0,000000E+00	0,000000E+00	1,921368E+07	1,942182E+08	5,422452E+08	9,700121E+08	1,298829E+09	1,298846E+09	9,700442E+08	5,422677E+08
2360	1,942295E+08	1,921611E+07	0,000000E+00	0,000000E+00	1,921299E+07	1,942132E+08	5,422444E+08	9,700096E+08	1,298808E+09	1,298812E+09	9,700275E+08	5,422693E+08
2361	1,942356E+08	1,922025E+07	0,000000E+00	0,000000E+00	1,922338E+07	1,942470E+08	5,422780E+08	9,700311E+08	1,298806E+09	1,298780E+09	9,699710E+08	5,422219E+08
2362	1,942089E+08	1,921353E+07	0,000000E+00	0,000000E+00	1,921640E+07	1,942173E+08	5,422199E+08	9,699445E+08	1,298734E+09	1,298760E+09	9,700013E+08	5,422679E+08
2363	1,942486E+08	1,922690E+07	0,000000E+00	0,000000E+00	1,922486E+07	1,942402E+08	5,422566E+08	9,699664E+08	1,298700E+09	1,298685E+09	9,699362E+08	5,422362E+08
2364	1,942361E+08	1,922670E+07	0,000000E+00	0,000000E+00	1,923145E+07	1,942540E+08	5,422544E+08	9,699508E+08	1,298681E+09	1,298655E+09	9,698948E+08	5,422114E+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												
2365	1,942321E+08	1,922770E+07	0,000000E+00	0,000000E+00	1,922705E+07	1,942244E+08	5,421962E+08	9,698628E+08	1,298599E+09	1,298615E+09	9,699062E+08	5,422467E+08
2366	1,942687E+08	1,924140E+07	0,000000E+00	0,000000E+00	1,924005E+07	1,942635E+08	5,422376E+08	9,698823E+08	1,298577E+09	1,298557E+09	9,698339E+08	5,421938E+08
2367	1,942389E+08	1,923642E+07	0,000000E+00	0,000000E+00	1,924132E+07	1,942581E+08	5,422074E+08	9,698254E+08	1,298527E+09	1,298541E+09	9,698450E+08	5,422139E+08
2368	1,942570E+08	1,924149E+07	0,000000E+00	0,000000E+00	1,923943E+07	1,942443E+08	5,421910E+08	9,698035E+08	1,298492E+09	1,298503E+09	9,698361E+08	5,422282E+08
2369	1,942724E+08	1,924672E+07	0,000000E+00	0,000000E+00	1,924901E+07	1,942818E+08	5,422416E+08	9,698571E+08	1,298519E+09	1,298484E+09	9,697790E+08	5,421741E+08
2370	1,942376E+08	1,923787E+07	0,000000E+00	0,000000E+00	1,924051E+07	1,942470E+08	5,421850E+08	9,697967E+08	1,298501E+09	1,298521E+09	9,698417E+08	5,422235E+08
2371	1,942681E+08	1,924401E+07	0,000000E+00	0,000000E+00	1,923936E+07	1,942504E+08	5,422102E+08	9,698379E+08	1,298526E+09	1,298525E+09	9,698406E+08	5,422183E+08
2372	1,942586E+08	1,924182E+07	0,000000E+00	0,000000E+00	1,924388E+07	1,942700E+08	5,422355E+08	9,698786E+08	1,298580E+09	1,298564E+09	9,698381E+08	5,421932E+08
2373	1,942354E+08	1,923267E+07	0,000000E+00	0,000000E+00	1,923099E+07	1,942313E+08	5,421900E+08	9,698372E+08	1,298574E+09	1,298607E+09	9,699088E+08	5,422467E+08
2374	1,942637E+08	1,923828E+07	0,000000E+00	0,000000E+00	1,923521E+07	1,942581E+08	5,422511E+08	9,699214E+08	1,298631E+09	1,298617E+09	9,698858E+08	5,422144E+08
2375	1,942331E+08	1,922909E+07	0,000000E+00	0,000000E+00	1,923288E+07	1,942514E+08	5,422437E+08	9,699365E+08	1,298679E+09	1,298670E+09	9,699163E+08	5,422235E+08
2376	1,942326E+08	1,922460E+07	0,000000E+00	0,000000E+00	1,922230E+07	1,942202E+08	5,422126E+08	9,699238E+08	1,298692E+09	1,298699E+09	9,699570E+08	5,422569E+08
2377	1,942536E+08	1,923104E+07	0,000000E+00	0,000000E+00	1,923078E+07	1,942544E+08	5,422647E+08	9,699809E+08	1,298726E+09	1,298697E+09	9,699183E+08	5,422093E+08
2378	1,942177E+08	1,922105E+07	0,000000E+00	0,000000E+00	1,922380E+07	1,942283E+08	5,422154E+08	9,699166E+08	1,298690E+09	1,298712E+09	9,699613E+08	5,422476E+08
2379	1,942426E+08	1,922713E+07	0,000000E+00	0,000000E+00	1,922429E+07	1,942282E+08	5,422220E+08	9,699138E+08	1,298656E+09	1,298670E+09	9,699463E+08	5,422540E+08
2380	1,942521E+08	1,923231E+07	0,000000E+00	0,000000E+00	1,923491E+07	1,942620E+08	5,422588E+08	9,699431E+08	1,298659E+09	1,298631E+09	9,698776E+08	5,422010E+08
2381	1,942255E+08	1,922598E+07	0,000000E+00	0,000000E+00	1,922794E+07	1,942312E+08	5,421996E+08	9,698568E+08	1,298588E+09	1,298603E+09	9,698944E+08	5,422376E+08
2382	1,942623E+08	1,923945E+07	0,000000E+00	0,000000E+00	1,923705E+07	1,942532E+08	5,422297E+08	9,698742E+08	1,298563E+09	1,298543E+09	9,698356E+08	5,422061E+08
2383	1,942501E+08	1,923928E+07	0,000000E+00	0,000000E+00	1,924416E+07	1,942676E+08	5,422237E+08	9,698489E+08	1,298534E+09	1,298512E+09	9,698003E+08	5,421844E+08
2384	1,942456E+08	1,924037E+07	0,000000E+00	0,000000E+00	1,924063E+07	1,942408E+08	5,421683E+08	9,697667E+08	1,298461E+09	1,298478E+09	9,698180E+08	5,422232E+08
2385	1,942811E+08	1,925284E+07	0,000000E+00	0,000000E+00	1,925282E+07	1,942822E+08	5,422218E+08	9,697968E+08	1,298435E+09	1,298414E+09	9,697452E+08	5,421728E+08
2386	1,942518E+08	1,924719E+07	0,000000E+00	0,000000E+00	1,925265E+07	1,942713E+08	5,421861E+08	9,697410E+08	1,298390E+09	1,298396E+09	9,697514E+08	5,421902E+08
2387	1,942697E+08	1,925205E+07	0,000000E+00	0,000000E+00	1,924987E+07	1,942567E+08	5,421696E+08	9,697220E+08	1,298365E+09	1,298377E+09	9,697583E+08	5,422105E+08
2388	1,942874E+08	1,925793E+07	0,000000E+00	0,000000E+00	1,925846E+07	1,942908E+08	5,422168E+08	9,697751E+08	1,298400E+09	1,298369E+09	9,697051E+08	5,421560E+08
2389	1,942521E+08	1,924898E+07	0,000000E+00	0,000000E+00	1,924996E+07	1,942567E+08	5,421612E+08	9,697132E+08	1,298377E+09	1,298398E+09	9,697613E+08	5,422007E+08
2390	1,942793E+08	1,925444E+07	0,000000E+00	0,000000E+00	1,924961E+07	1,942628E+08	5,421878E+08	9,697560E+08	1,298405E+09	1,298407E+09	9,697619E+08	5,421967E+08
2391	1,942698E+08	1,925159E+07	0,000000E+00	0,000000E+00	1,925435E+07	1,942844E+08	5,422190E+08	9,698017E+08	1,298458E+09	1,298442E+09	9,697601E+08	5,421725E+08
2392	1,942456E+08	1,924187E+07	0,000000E+00	0,000000E+00	1,924136E+07	1,942447E+08	5,421758E+08	9,697777E+08	1,298475E+09	1,298495E+09	9,698314E+08	5,422245E+08
2393	1,942722E+08	1,924668E+07	0,000000E+00	0,000000E+00	1,924443E+07	1,942694E+08	5,422362E+08	9,698606E+08	1,298532E+09	1,298509E+09	9,698111E+08	5,421935E+08
2394	1,942431E+08	1,923796E+07	0,000000E+00	0,000000E+00	1,924138E+07	1,942576E+08	5,422159E+08	9,698564E+08	1,298566E+09	1,298559E+09	9,698409E+08	5,422017E+08
2395	1,942438E+08	1,923450E+07	0,000000E+00	0,000000E+00	1,923201E+07	1,942303E+08	5,421838E+08	9,698306E+08	1,298561E+09	1,298585E+09	9,698924E+08	5,422434E+08
2396	1,942688E+08	1,924249E+07	0,000000E+00	0,000000E+00	1,924116E+07	1,942662E+08	5,422385E+08	9,698861E+08	1,298587E+09	1,298570E+09	9,698431E+08	5,421944E+08
2397	1,942338E+08	1,923278E+07	0,000000E+00	0,000000E+00	1,923517E+07	1,942447E+08	5,421990E+08	9,698283E+08	1,298541E+09	1,298560E+09	9,698637E+08	5,422224E+08
2398	1,942558E+08	1,923863E+07	0,000000E+00	0,000000E+00	1,923633E+07	1,942443E+08	5,422050E+08	9,698329E+08	1,298519E+09	1,298520E+09	9,698422E+08	5,422248E+08
2399	1,942654E+08	1,924374E+07	0,000000E+00	0,000000E+00	1,924692E+07	1,942771E+08	5,422389E+08	9,698597E+08	1,298527E+09	1,298490E+09	9,697790E+08	5,421718E+08
2400	1,942380E+08	1,923784E+07	0,000000E+00	0,000000E+00	1,924042E+07	1,942450E+08	5,421756E+08	9,697757E+08	1,298467E+09	1,298475E+09	9,698042E+08	5,422093E+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	1,942730E+08	1,925068E+07	0,000000E+00	0,000000E+00	1,924914E+07	1,942673E+08	5,422054E+08	9,697848E+08	1,298430E+09	1,298413E+09	9,697512E+08	5,421834E+08
2402	1,942630E+08	1,925090E+07	0,000000E+00	0,000000E+00	1,925617E+07	1,942806E+08	5,421937E+08	9,697455E+08	1,298384E+09	1,298370E+09	9,697111E+08	5,421627E+08
2403	1,942600E+08	1,925228E+07	0,000000E+00	0,000000E+00	1,925310E+07	1,942575E+08	5,421449E+08	9,696652E+08	1,298302E+09	1,298332E+09	9,697356E+08	5,422077E+08
2404	1,942985E+08	1,926518E+07	0,000000E+00	0,000000E+00	1,926406E+07	1,942949E+08	5,421991E+08	9,697077E+08	1,298292E+09	1,298268E+09	9,696538E+08	5,421531E+08
2405	1,942689E+08	1,925943E+07	0,000000E+00	0,000000E+00	1,926349E+07	1,942832E+08	5,421626E+08	9,696525E+08	1,298249E+09	1,298247E+09	9,696497E+08	5,421616E+08
2406	1,942831E+08	1,926377E+07	0,000000E+00	0,000000E+00	1,926055E+07	1,942674E+08	5,421430E+08	9,696342E+08	1,298236E+09	1,298246E+09	9,696656E+08	5,421822E+08
2407	1,942997E+08	1,926909E+07	0,000000E+00	0,000000E+00	1,926933E+07	1,943029E+08	5,421916E+08	9,696861E+08	1,298271E+09	1,298246E+09	9,696251E+08	5,421325E+08
2408	1,942630E+08	1,925961E+07	0,000000E+00	0,000000E+00	1,926128E+07	1,942714E+08	5,421432E+08	9,696405E+08	1,298266E+09	1,298285E+09	9,696868E+08	5,421782E+08
2409	1,942870E+08	1,926319E+07	0,000000E+00	0,000000E+00	1,926002E+07	1,942790E+08	5,421798E+08	9,696954E+08	1,298300E+09	1,298297E+09	9,696904E+08	5,421776E+08
2410	1,942789E+08	1,926003E+07	0,000000E+00	0,000000E+00	1,926339E+07	1,942944E+08	5,422020E+08	9,697375E+08	1,298355E+09	1,298333E+09	9,696865E+08	5,421527E+08
2411	1,942557E+08	1,925048E+07	0,000000E+00	0,000000E+00	1,925013E+07	1,942548E+08	5,421564E+08	9,697065E+08	1,298370E+09	1,298398E+09	9,697732E+08	5,422123E+08
2412	1,942863E+08	1,925664E+07	0,000000E+00	0,000000E+00	1,925254E+07	1,942751E+08	5,422099E+08	9,697822E+08	1,298422E+09	1,298408E+09	9,697497E+08	5,421812E+08
2413	1,942582E+08	1,924857E+07	0,000000E+00	0,000000E+00	1,925048E+07	1,942660E+08	5,421879E+08	9,697647E+08	1,298432E+09	1,298432E+09	9,697621E+08	5,421822E+08
2414	1,942569E+08	1,924539E+07	0,000000E+00	0,000000E+00	1,924282E+07	1,942439E+08	5,421604E+08	9,697375E+08	1,298420E+09	1,298449E+09	9,698039E+08	5,422206E+08
2415	1,942819E+08	1,925326E+07	0,000000E+00	0,000000E+00	1,925280E+07	1,942826E+08	5,422213E+08	9,697975E+08	1,298441E+09	1,298422E+09	9,697476E+08	5,421682E+08
2416	1,942455E+08	1,924353E+07	0,000000E+00	0,000000E+00	1,924731E+07	1,942609E+08	5,421847E+08	9,697596E+08	1,298420E+09	1,298418E+09	9,697629E+08	5,421904E+08
2417	1,942646E+08	1,924878E+07	0,000000E+00	0,000000E+00	1,924786E+07	1,942593E+08	5,421896E+08	9,697618E+08	1,298402E+09	1,298390E+09	9,697473E+08	5,421945E+08
2418	1,942759E+08	1,925459E+07	0,000000E+00	0,000000E+00	1,925777E+07	1,942866E+08	5,422090E+08	9,697675E+08	1,298395E+09	1,298359E+09	9,696896E+08	5,421454E+08
2419	1,942510E+08	1,924987E+07	0,000000E+00	0,000000E+00	1,925254E+07	1,942587E+08	5,421461E+08	9,696720E+08	1,298320E+09	1,298347E+09	9,697312E+08	5,421944E+08
2420	1,942908E+08	1,926390E+07	0,000000E+00	0,000000E+00	1,926098E+07	1,942802E+08	5,421771E+08	9,696810E+08	1,298277E+09	1,298272E+09	9,696705E+08	5,421691E+08
2421	1,942819E+08	1,926411E+07	0,000000E+00	0,000000E+00	1,926843E+07	1,942961E+08	5,421707E+08	9,696453E+08	1,298223E+09	1,298209E+09	9,696117E+08	5,421394E+08
2422	1,942761E+08	1,926499E+07	0,000000E+00	0,000000E+00	1,926543E+07	1,942726E+08	5,421229E+08	9,695742E+08	1,298158E+09	1,298180E+09	9,696317E+08	5,421803E+08
2423	1,943134E+08	1,927709E+07	0,000000E+00	0,000000E+00	1,927572E+07	1,943079E+08	5,421746E+08	9,696171E+08	1,298155E+09	1,298128E+09	9,695585E+08	5,421253E+08
2424	1,942816E+08	1,927110E+07	0,000000E+00	0,000000E+00	1,927523E+07	1,942957E+08	5,421400E+08	9,695756E+08	1,298130E+09	1,298121E+09	9,695619E+08	5,421330E+08
2425	1,942919E+08	1,927390E+07	0,000000E+00	0,000000E+00	1,927166E+07	1,942816E+08	5,421242E+08	9,695571E+08	1,298117E+09	1,298128E+09	9,695870E+08	5,421586E+08
2426	1,943088E+08	1,927885E+07	0,000000E+00	0,000000E+00	1,927974E+07	1,943156E+08	5,421702E+08	9,696023E+08	1,298145E+09	1,298125E+09	9,695498E+08	5,421130E+08
2427	1,942737E+08	1,926916E+07	0,000000E+00	0,000000E+00	1,927180E+07	1,942870E+08	5,421298E+08	9,695646E+08	1,298142E+09	1,298173E+09	9,696235E+08	5,421655E+08
2428	1,943003E+08	1,927292E+07	0,000000E+00	0,000000E+00	1,926875E+07	1,942879E+08	5,421623E+08	9,696285E+08	1,298192E+09	1,298186E+09	9,696214E+08	5,421635E+08
2429	1,942932E+08	1,927005E+07	0,000000E+00	0,000000E+00	1,927194E+07	1,943020E+08	5,421783E+08	9,696608E+08	1,298241E+09	1,298216E+09	9,696071E+08	5,421310E+08
2430	1,942679E+08	1,926064E+07	0,000000E+00	0,000000E+00	1,925933E+07	1,942631E+08	5,421291E+08	9,696217E+08	1,298250E+09	1,298281E+09	9,696925E+08	5,421895E+08
2431	1,942984E+08	1,926692E+07	0,000000E+00	0,000000E+00	1,926275E+07	1,942856E+08	5,421830E+08	9,696906E+08	1,298290E+09	1,298284E+09	9,696724E+08	5,421605E+08
2432	1,942698E+08	1,925899E+07	0,000000E+00	0,000000E+00	1,926187E+07	1,942815E+08	5,421723E+08	9,696913E+08	1,298308E+09	1,298301E+09	9,696769E+08	5,421567E+08
2433	1,942649E+08	1,925458E+07	0,000000E+00	0,000000E+00	1,925405E+07	1,942614E+08	5,421527E+08	9,696729E+08	1,298301E+09	1,298319E+09	9,697158E+08	5,421940E+08
2434	1,942906E+08	1,926267E+07	0,000000E+00	0,000000E+00	1,926307E+07	1,942947E+08	5,422041E+08	9,697256E+08	1,298324E+09	1,298295E+09	9,696596E+08	5,421425E+08
2435	1,942567E+08	1,925386E+07	0,000000E+00	0,000000E+00	1,925799E+07	1,942737E+08	5,421639E+08	9,696772E+08	1,298299E+09	1,298306E+09	9,696916E+08	5,421719E+08
2436	1,942795E+08	1,926063E+07	0,000000E+00	0,000000E+00	1,925795E+07	1,942671E+08	5,421601E+08	9,696720E+08	1,298275E+09	1,298272E+09	9,696747E+08	5,421790E+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												
2437	1,942931E+08	1,926729E+07	0,000000E+00	0,000000E+00	1,926902E+07	1,942974E+08	5,421755E+08	9,696601E+08	1,298241E+09	1,298215E+09	9,696019E+08	5,421256E+08
2438	1,942678E+08	1,926314E+07	0,000000E+00	0,000000E+00	1,926542E+07	1,942744E+08	5,421187E+08	9,695637E+08	1,298156E+09	1,298190E+09	9,696332E+08	5,421727E+08
2439	1,943079E+08	1,927672E+07	0,000000E+00	0,000000E+00	1,927412E+07	1,942966E+08	5,421540E+08	9,695797E+08	1,298113E+09	1,298109E+09	9,695687E+08	5,421443E+08
2440	1,942972E+08	1,927662E+07	0,000000E+00	0,000000E+00	1,928150E+07	1,943120E+08	5,421518E+08	9,695648E+08	1,298083E+09	1,298053E+09	9,695039E+08	5,421069E+08
2441	1,942867E+08	1,927615E+07	0,000000E+00	0,000000E+00	1,927761E+07	1,942881E+08	5,421045E+08	9,694942E+08	1,298028E+09	1,298041E+09	9,695318E+08	5,421474E+08
2442	1,943229E+08	1,928795E+07	0,000000E+00	0,000000E+00	1,928670E+07	1,943185E+08	5,421464E+08	9,695253E+08	1,298021E+09	1,297997E+09	9,694699E+08	5,420980E+08
2443	1,942925E+08	1,928216E+07	0,000000E+00	0,000000E+00	1,928685E+07	1,943109E+08	5,421178E+08	9,694845E+08	1,297998E+09	1,298006E+09	9,694949E+08	5,421171E+08
2444	1,943057E+08	1,928505E+07	0,000000E+00	0,000000E+00	1,928200E+07	1,942945E+08	5,421064E+08	9,694793E+08	1,297996E+09	1,298012E+09	9,695189E+08	5,421456E+08
2445	1,943233E+08	1,928947E+07	0,000000E+00	0,000000E+00	1,928971E+07	1,943279E+08	5,421525E+08	9,695264E+08	1,298020E+09	1,297998E+09	9,694709E+08	5,420953E+08
2446	1,942872E+08	1,927952E+07	0,000000E+00	0,000000E+00	1,928143E+07	1,942980E+08	5,421118E+08	9,694948E+08	1,298033E+09	1,298057E+09	9,695438E+08	5,421459E+08
2447	1,943131E+08	1,928262E+07	0,000000E+00	0,000000E+00	1,927786E+07	1,942958E+08	5,421380E+08	9,695507E+08	1,298079E+09	1,298077E+09	9,695493E+08	5,421436E+08
2448	1,943044E+08	1,927981E+07	0,000000E+00	0,000000E+00	1,928134E+07	1,943097E+08	5,421545E+08	9,695903E+08	1,298133E+09	1,298105E+09	9,695326E+08	5,421075E+08
2449	1,942757E+08	1,926943E+07	0,000000E+00	0,000000E+00	1,926934E+07	1,942761E+08	5,421105E+08	9,695466E+08	1,298134E+09	1,298166E+09	9,696167E+08	5,421668E+08
2450	1,943064E+08	1,927587E+07	0,000000E+00	0,000000E+00	1,927268E+07	1,942977E+08	5,421618E+08	9,696061E+08	1,298159E+09	1,298157E+09	9,695925E+08	5,421392E+08
2451	1,942802E+08	1,926842E+07	0,000000E+00	0,000000E+00	1,927266E+07	1,942977E+08	5,421599E+08	9,696156E+08	1,298181E+09	1,298179E+09	9,696028E+08	5,421392E+08
2452	1,942783E+08	1,926508E+07	0,000000E+00	0,000000E+00	1,926367E+07	1,942717E+08	5,421348E+08	9,696031E+08	1,298186E+09	1,298197E+09	9,696348E+08	5,421739E+08
2453	1,943047E+08	1,927390E+07	0,000000E+00	0,000000E+00	1,927299E+07	1,943036E+08	5,421764E+08	9,696373E+08	1,298193E+09	1,298163E+09	9,695714E+08	5,421182E+08
2454	1,942713E+08	1,926619E+07	0,000000E+00	0,000000E+00	1,926926E+07	1,942848E+08	5,421342E+08	9,695798E+08	1,298159E+09	1,298172E+09	9,696024E+08	5,421488E+08
2455	1,942947E+08	1,927326E+07	0,000000E+00	0,000000E+00	1,927049E+07	1,942805E+08	5,421294E+08	9,695650E+08	1,298120E+09	1,298128E+09	9,695876E+08	5,421583E+08
2456	1,943082E+08	1,927996E+07	0,000000E+00	0,000000E+00	1,928246E+07	1,943147E+08	5,421561E+08	9,695716E+08	1,298091E+09	1,298060E+09	9,695029E+08	5,420990E+08
2457	1,942797E+08	1,927466E+07	0,000000E+00	0,000000E+00	1,927905E+07	1,942946E+08	5,421062E+08	9,694834E+08	1,298013E+09	1,298035E+09	9,695297E+08	5,421434E+08
2458	1,943192E+08	1,928786E+07	0,000000E+00	0,000000E+00	1,928618E+07	1,943105E+08	5,421312E+08	9,694918E+08	1,297973E+09	1,297962E+09	9,694692E+08	5,421161E+08
2459	1,943098E+08	1,928807E+07	0,000000E+00	0,000000E+00	1,929350E+07	1,943270E+08	5,421300E+08	9,694747E+08	1,297948E+09	1,297926E+09	9,694237E+08	5,420854E+08
2460	1,943014E+08	1,928823E+07	0,000000E+00	0,000000E+00	1,928811E+07	1,942974E+08	5,420774E+08	9,694066E+08	1,297900E+09	1,297918E+09	9,694547E+08	5,421286E+08
2461	1,943377E+08	1,929990E+07	0,000000E+00	0,000000E+00	1,929749E+07	1,943298E+08	5,421172E+08	9,694272E+08	1,297878E+09	1,297862E+09	9,693872E+08	5,420789E+08
2462	1,943076E+08	1,929422E+07	0,000000E+00	0,000000E+00	1,929827E+07	1,943257E+08	5,420969E+08	9,693952E+08	1,297859E+09	1,297869E+09	9,694082E+08	5,420974E+08
2463	1,943198E+08	1,929591E+07	0,000000E+00	0,000000E+00	1,929296E+07	1,943076E+08	5,420876E+08	9,694004E+08	1,297866E+09	1,297880E+09	9,694358E+08	5,421257E+08
2464	1,943360E+08	1,929980E+07	0,000000E+00	0,000000E+00	1,930000E+07	1,943388E+08	5,421359E+08	9,694649E+08	1,297912E+09	1,297875E+09	9,693851E+08	5,420696E+08
2465	1,942959E+08	1,928858E+07	0,000000E+00	0,000000E+00	1,929114E+07	1,943088E+08	5,420928E+08	9,694265E+08	1,297927E+09	1,297945E+09	9,694653E+08	5,421201E+08
2466	1,943208E+08	1,929147E+07	0,000000E+00	0,000000E+00	1,928680E+07	1,943029E+08	5,421085E+08	9,694656E+08	1,297960E+09	1,297966E+09	9,694787E+08	5,421233E+08
2467	1,943143E+08	1,928916E+07	0,000000E+00	0,000000E+00	1,929136E+07	1,943229E+08	5,421329E+08	9,695034E+08	1,298009E+09	1,297999E+09	9,694727E+08	5,420942E+08
2468	1,942883E+08	1,927930E+07	0,000000E+00	0,000000E+00	1,927864E+07	1,942882E+08	5,420953E+08	9,694756E+08	1,298017E+09	1,298050E+09	9,695466E+08	5,421514E+08
2469	1,943190E+08	1,928571E+07	0,000000E+00	0,000000E+00	1,928232E+07	1,943097E+08	5,421445E+08	9,695332E+08	1,298037E+09	1,298027E+09	9,695086E+08	5,421189E+08
2470	1,942937E+08	1,927905E+07	0,000000E+00	0,000000E+00	1,928265E+07	1,943100E+08	5,421423E+08	9,695445E+08	1,298067E+09	1,298055E+09	9,695161E+08	5,421165E+08
2471	1,942914E+08	1,927587E+07	0,000000E+00	0,000000E+00	1,927411E+07	1,942818E+08	5,421103E+08	9,695211E+08	1,298064E+09	1,298077E+09	9,695558E+08	5,421527E+08
2472	1,943176E+08	1,928518E+07	0,000000E+00	0,000000E+00	1,928414E+07	1,943142E+08	5,421516E+08	9,695566E+08	1,298066E+09	1,298033E+09	9,694866E+08	5,420942E+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												
2473	1,942822E+08	1,927717E+07	0,000000E+00	0,000000E+00	1,928179E+07	1,943016E+08	5,421126E+08	9,694891E+08	1,298018E+09	1,298033E+09	9,695136E+08	5,421243E+08
2474	1,943060E+08	1,928438E+07	0,000000E+00	0,000000E+00	1,928296E+07	1,942958E+08	5,421044E+08	9,694646E+08	1,297963E+09	1,297976E+09	9,694936E+08	5,421352E+08
2475	1,943218E+08	1,929138E+07	0,000000E+00	0,000000E+00	1,929520E+07	1,943325E+08	5,421374E+08	9,694793E+08	1,297942E+09	1,297915E+09	9,694131E+08	5,420783E+08
2476	1,942960E+08	1,928702E+07	0,000000E+00	0,000000E+00	1,929041E+07	1,943066E+08	5,420836E+08	9,694003E+08	1,297879E+09	1,297892E+09	9,694336E+08	5,421188E+08
2477	1,943348E+08	1,930033E+07	0,000000E+00	0,000000E+00	1,929725E+07	1,943202E+08	5,420979E+08	9,693904E+08	1,297824E+09	1,297813E+09	9,693699E+08	5,420892E+08
2478	1,943256E+08	1,930133E+07	0,000000E+00	0,000000E+00	1,930532E+07	1,943395E+08	5,421004E+08	9,693746E+08	1,297801E+09	1,297782E+09	9,693298E+08	5,420615E+08
2479	1,943167E+08	1,930104E+07	0,000000E+00	0,000000E+00	1,930049E+07	1,943119E+08	5,420513E+08	9,693079E+08	1,297752E+09	1,297779E+09	9,693696E+08	5,421075E+08
2480	1,943511E+08	1,931166E+07	0,000000E+00	0,000000E+00	1,930959E+07	1,943456E+08	5,421021E+08	9,693523E+08	1,297746E+09	1,297723E+09	9,692981E+08	5,420549E+08
2481	1,943183E+08	1,930456E+07	0,000000E+00	0,000000E+00	1,931004E+07	1,943426E+08	5,420858E+08	9,693304E+08	1,297746E+09	1,297745E+09	9,693229E+08	5,420724E+08
2482	1,943289E+08	1,930520E+07	0,000000E+00	0,000000E+00	1,930277E+07	1,943174E+08	5,420640E+08	9,693245E+08	1,297754E+09	1,297766E+09	9,693590E+08	5,421042E+08
2483	1,943464E+08	1,930908E+07	0,000000E+00	0,000000E+00	1,930946E+07	1,943488E+08	5,421123E+08	9,693851E+08	1,297803E+09	1,297779E+09	9,693257E+08	5,420550E+08
2484	1,943087E+08	1,929840E+07	0,000000E+00	0,000000E+00	1,929959E+07	1,943157E+08	5,420674E+08	9,693498E+08	1,297816E+09	1,297840E+09	9,694012E+08	5,421060E+08
2485	1,943331E+08	1,930117E+07	0,000000E+00	0,000000E+00	1,929596E+07	1,943128E+08	5,420808E+08	9,693740E+08	1,297827E+09	1,297841E+09	9,694038E+08	5,421070E+08
2486	1,943276E+08	1,929948E+07	0,000000E+00	0,000000E+00	1,930144E+07	1,943376E+08	5,421178E+08	9,694253E+08	1,297878E+09	1,297865E+09	9,693889E+08	5,420753E+08
2487	1,943011E+08	1,928922E+07	0,000000E+00	0,000000E+00	1,928899E+07	1,943017E+08	5,420811E+08	9,694061E+08	1,297897E+09	1,297922E+09	9,694614E+08	5,421284E+08
2488	1,943296E+08	1,929554E+07	0,000000E+00	0,000000E+00	1,929256E+07	1,943214E+08	5,421301E+08	9,694742E+08	1,297931E+09	1,297903E+09	9,694176E+08	5,420897E+08
2489	1,943024E+08	1,928876E+07	0,000000E+00	0,000000E+00	1,929341E+07	1,943232E+08	5,421237E+08	9,694734E+08	1,297957E+09	1,297938E+09	9,694309E+08	5,420876E+08
2490	1,942996E+08	1,928588E+07	0,000000E+00	0,000000E+00	1,928494E+07	1,942924E+08	5,420804E+08	9,694283E+08	1,297933E+09	1,297953E+09	9,694770E+08	5,421315E+08
2491	1,943296E+08	1,929600E+07	0,000000E+00	0,000000E+00	1,929605E+07	1,943300E+08	5,421279E+08	9,694597E+08	1,297926E+09	1,297910E+09	9,694147E+08	5,420800E+08
2492	1,942981E+08	1,928896E+07	0,000000E+00	0,000000E+00	1,929319E+07	1,943155E+08	5,420927E+08	9,694039E+08	1,297879E+09	1,297893E+09	9,694281E+08	5,421071E+08
2493	1,943225E+08	1,929646E+07	0,000000E+00	0,000000E+00	1,929451E+07	1,943089E+08	5,420778E+08	9,693691E+08	1,297814E+09	1,297822E+09	9,693958E+08	5,421130E+08
2494	1,943394E+08	1,930431E+07	0,000000E+00	0,000000E+00	1,930677E+07	1,943456E+08	5,421119E+08	9,693852E+08	1,297798E+09	1,297764E+09	9,693117E+08	5,420527E+08
2495	1,943123E+08	1,930001E+07	0,000000E+00	0,000000E+00	1,930237E+07	1,943180E+08	5,420537E+08	9,693023E+08	1,297734E+09	1,297749E+09	9,693396E+08	5,420926E+08
2496	1,943487E+08	1,931295E+07	0,000000E+00	0,000000E+00	1,930942E+07	1,943330E+08	5,420724E+08	9,693016E+08	1,297684E+09	1,297668E+09	9,692733E+08	5,420610E+08
2497	1,943372E+08	1,931319E+07	0,000000E+00	0,000000E+00	1,931836E+07	1,943577E+08	5,420807E+08	9,692847E+08	1,297660E+09	1,297641E+09	9,692373E+08	5,420347E+08
2498	1,943271E+08	1,931198E+07	0,000000E+00	0,000000E+00	1,931268E+07	1,943278E+08	5,420312E+08	9,692195E+08	1,297610E+09	1,297639E+09	9,692823E+08	5,420856E+08
2499	1,943630E+08	1,932199E+07	0,000000E+00	0,000000E+00	1,932104E+07	1,943612E+08	5,420854E+08	9,692736E+08	1,297624E+09	1,297604E+09	9,692227E+08	5,420380E+08
2500	1,943328E+08	1,931523E+07	0,000000E+00	0,000000E+00	1,931952E+07	1,943513E+08	5,420638E+08	9,692587E+08	1,297638E+09	1,297632E+09	9,692474E+08	5,420536E+08
2501	1,943420E+08	1,931537E+07	0,000000E+00	0,000000E+00	1,931178E+07	1,943242E+08	5,420309E+08	9,692324E+08	1,297629E+09	1,297648E+09	9,692826E+08	5,420847E+08
2502	1,943600E+08	1,931985E+07	0,000000E+00	0,000000E+00	1,931884E+07	1,943584E+08	5,420849E+08	9,692956E+08	1,297675E+09	1,297656E+09	9,692496E+08	5,420375E+08
2503	1,943217E+08	1,930876E+07	0,000000E+00	0,000000E+00	1,930988E+07	1,943286E+08	5,420474E+08	9,692676E+08	1,297688E+09	1,297716E+09	9,693248E+08	5,420870E+08
2504	1,943440E+08	1,931074E+07	0,000000E+00	0,000000E+00	1,930626E+07	1,943277E+08	5,420729E+08	9,693154E+08	1,297712E+09	1,297712E+09	9,693172E+08	5,420822E+08
2505	1,943363E+08	1,930838E+07	0,000000E+00	0,000000E+00	1,931191E+07	1,943540E+08	5,421111E+08	9,693721E+08	1,297781E+09	1,297751E+09	9,693057E+08	5,420484E+08
2506	1,943085E+08	1,929781E+07	0,000000E+00	0,000000E+00	1,929841E+07	1,943123E+08	5,420620E+08	9,693383E+08	1,297795E+09	1,297816E+09	9,693873E+08	5,421056E+08
2507	1,943388E+08	1,930460E+07	0,000000E+00	0,000000E+00	1,930211E+07	1,943315E+08	5,421064E+08	9,693952E+08	1,297826E+09	1,297811E+09	9,693579E+08	5,420754E+08
2508	1,943162E+08	1,929933E+07	0,000000E+00	0,000000E+00	1,930268E+07	1,943309E+08	5,420957E+08	9,693898E+08	1,297840E+09	1,297828E+09	9,693634E+08	5,420738E+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	1,943144E+08	1,929703E+07	0,000000E+00	0,000000E+00	1,929563E+07	1,943033E+08	5,420465E+08	9,693200E+08	1,297780E+09	1,297811E+09	9,693930E+08	5,421151E+08
2510	1,943469E+08	1,930834E+07	0,000000E+00	0,000000E+00	1,930754E+07	1,943443E+08	5,421046E+08	9,693624E+08	1,297769E+09	1,297750E+09	9,693175E+08	5,420604E+08
2511	1,943158E+08	1,930162E+07	0,000000E+00	0,000000E+00	1,930556E+07	1,943300E+08	5,420701E+08	9,693123E+08	1,297728E+09	1,297734E+09	9,693237E+08	5,420802E+08
2512	1,943375E+08	1,930906E+07	0,000000E+00	0,000000E+00	1,930667E+07	1,943224E+08	5,420558E+08	9,692834E+08	1,297670E+09	1,297665E+09	9,692842E+08	5,420783E+08
2513	1,943513E+08	1,931660E+07	0,000000E+00	0,000000E+00	1,931964E+07	1,943617E+08	5,420887E+08	9,692934E+08	1,297657E+09	1,297619E+09	9,692094E+08	5,420185E+08
2514	1,943225E+08	1,931204E+07	0,000000E+00	0,000000E+00	1,931521E+07	1,943329E+08	5,420249E+08	9,691996E+08	1,297585E+09	1,297606E+09	9,692474E+08	5,420657E+08
2515	1,943599E+08	1,932445E+07	0,000000E+00	0,000000E+00	1,932247E+07	1,943518E+08	5,420522E+08	9,692074E+08	1,297545E+09	1,297541E+09	9,691943E+08	5,420425E+08
2516	1,943520E+08	1,932494E+07	0,000000E+00	0,000000E+00	1,933007E+07	1,943728E+08	5,420651E+08	9,692100E+08	1,297536E+09	1,297512E+09	9,691555E+08	5,420167E+08
2517	1,943416E+08	1,932308E+07	0,000000E+00	0,000000E+00	1,932360E+07	1,943398E+08	5,420063E+08	9,691341E+08	1,297481E+09	1,297508E+09	9,691980E+08	5,420668E+08
2518	1,943786E+08	1,933329E+07	0,000000E+00	0,000000E+00	1,933086E+07	1,943712E+08	5,420617E+08	9,691917E+08	1,297500E+09	1,297478E+09	9,691425E+08	5,420203E+08
2519	1,943480E+08	1,932642E+07	0,000000E+00	0,000000E+00	1,932945E+07	1,943595E+08	5,420356E+08	9,691720E+08	1,297513E+09	1,297514E+09	9,691728E+08	5,420345E+08
2520	1,943544E+08	1,932574E+07	0,000000E+00	0,000000E+00	1,932167E+07	1,943349E+08	5,420088E+08	9,691518E+08	1,297503E+09	1,297522E+09	9,691999E+08	5,420608E+08
2521	1,943695E+08	1,932949E+07	0,000000E+00	0,000000E+00	1,932961E+07	1,943746E+08	5,420703E+08	9,692190E+08	1,297552E+09	1,297533E+09	9,691675E+08	5,420122E+08
2522	1,943293E+08	1,931746E+07	0,000000E+00	0,000000E+00	1,932003E+07	1,943430E+08	5,420341E+08	9,691982E+08	1,297571E+09	1,297594E+09	9,692447E+08	5,420641E+08
2523	1,943523E+08	1,931909E+07	0,000000E+00	0,000000E+00	1,931602E+07	1,943415E+08	5,420607E+08	9,692547E+08	1,297618E+09	1,297613E+09	9,692472E+08	5,420632E+08
2524	1,943480E+08	1,931779E+07	0,000000E+00	0,000000E+00	1,932022E+07	1,943610E+08	5,420912E+08	9,693095E+08	1,297688E+09	1,297654E+09	9,692368E+08	5,420296E+08
2525	1,943205E+08	1,930771E+07	0,000000E+00	0,000000E+00	1,930726E+07	1,943186E+08	5,420290E+08	9,692468E+08	1,297673E+09	1,297704E+09	9,693169E+08	5,420889E+08
2526	1,943536E+08	1,931588E+07	0,000000E+00	0,000000E+00	1,931184E+07	1,943410E+08	5,420771E+08	9,692984E+08	1,297687E+09	1,297681E+09	9,692829E+08	5,420613E+08
2527	1,943324E+08	1,931110E+07	0,000000E+00	0,000000E+00	1,931394E+07	1,943438E+08	5,420706E+08	9,692931E+08	1,297693E+09	1,297689E+09	9,692796E+08	5,420553E+08
2528	1,943292E+08	1,930866E+07	0,000000E+00	0,000000E+00	1,930762E+07	1,943196E+08	5,420319E+08	9,692394E+08	1,297636E+09	1,297657E+09	9,692910E+08	5,420877E+08
2529	1,943598E+08	1,931973E+07	0,000000E+00	0,000000E+00	1,931998E+07	1,943615E+08	5,420883E+08	9,692824E+08	1,297636E+09	1,297605E+09	9,692142E+08	5,420279E+08
2530	1,943264E+08	1,931281E+07	0,000000E+00	0,000000E+00	1,931762E+07	1,943441E+08	5,420466E+08	9,692233E+08	1,297591E+09	1,297593E+09	9,692266E+08	5,420499E+08
2531	1,943483E+08	1,932033E+07	0,000000E+00	0,000000E+00	1,931888E+07	1,943369E+08	5,420309E+08	9,691914E+08	1,297540E+09	1,297541E+09	9,692007E+08	5,420546E+08
2532	1,943651E+08	1,932870E+07	0,000000E+00	0,000000E+00	1,933120E+07	1,943744E+08	5,420632E+08	9,692022E+08	1,297522E+09	1,297488E+09	9,691268E+08	5,419982E+08
2533	1,943369E+08	1,932414E+07	0,000000E+00	0,000000E+00	1,932744E+07	1,943475E+08	5,419969E+08	9,690947E+08	1,297429E+09	1,297460E+09	9,691591E+08	5,420467E+08
2534	1,943764E+08	1,933677E+07	0,000000E+00	0,000000E+00	1,933417E+07	1,943667E+08	5,420326E+08	9,691182E+08	1,297398E+09	1,297390E+09	9,691031E+08	5,420248E+08
2535	1,943693E+08	1,933733E+07	0,000000E+00	0,000000E+00	1,934168E+07	1,943848E+08	5,420413E+08	9,691249E+08	1,297403E+09	1,297374E+09	9,690652E+08	5,419946E+08
2536	1,943567E+08	1,933486E+07	0,000000E+00	0,000000E+00	1,933448E+07	1,943507E+08	5,419834E+08	9,690515E+08	1,297352E+09	1,297372E+09	9,691031E+08	5,420382E+08
2537	1,943901E+08	1,934428E+07	0,000000E+00	0,000000E+00	1,934180E+07	1,943831E+08	5,420365E+08	9,691045E+08	1,297373E+09	1,297353E+09	9,690573E+08	5,419924E+08
2538	1,943571E+08	1,933661E+07	0,000000E+00	0,000000E+00	1,934028E+07	1,943722E+08	5,420109E+08	9,690818E+08	1,297380E+09	1,297388E+09	9,690940E+08	5,420118E+08
2539	1,943634E+08	1,933498E+07	0,000000E+00	0,000000E+00	1,933230E+07	1,943508E+08	5,419942E+08	9,690763E+08	1,297388E+09	1,297413E+09	9,691304E+08	5,420431E+08
2540	1,943809E+08	1,933892E+07	0,000000E+00	0,000000E+00	1,933885E+07	1,943869E+08	5,420603E+08	9,691624E+08	1,297454E+09	1,297428E+09	9,690982E+08	5,419954E+08
2541	1,943409E+08	1,932662E+07	0,000000E+00	0,000000E+00	1,932883E+07	1,943523E+08	5,420130E+08	9,691267E+08	1,297465E+09	1,297487E+09	9,691725E+08	5,420456E+08
2542	1,943648E+08	1,932882E+07	0,000000E+00	0,000000E+00	1,932432E+07	1,943492E+08	5,420392E+08	9,691824E+08	1,297510E+09	1,297506E+09	9,691800E+08	5,420483E+08
2543	1,943620E+08	1,932838E+07	0,000000E+00	0,000000E+00	1,932943E+07	1,943676E+08	5,420630E+08	9,692264E+08	1,297571E+09	1,297545E+09	9,691695E+08	5,420136E+08
2544	1,943336E+08	1,931832E+07	0,000000E+00	0,000000E+00	1,931754E+07	1,943301E+08	5,420057E+08	9,691584E+08	1,297537E+09	1,297571E+09	9,692327E+08	5,420666E+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	1,943653E+08	1,932654E+07	0,000000E+00	0,000000E+00	1,932359E+07	1,943574E+08	5,420590E+08	9,692100E+08	1,297545E+09	1,297540E+09	9,691924E+08	5,420353E+08
2546	1,943429E+08	1,932141E+07	0,000000E+00	0,000000E+00	1,932588E+07	1,943601E+08	5,420536E+08	9,692079E+08	1,297549E+09	1,297539E+09	9,691827E+08	5,420283E+08
2547	1,943401E+08	1,931905E+07	0,000000E+00	0,000000E+00	1,931963E+07	1,943358E+08	5,420146E+08	9,691611E+08	1,297514E+09	1,297527E+09	9,691977E+08	5,420601E+08
2548	1,943724E+08	1,933106E+07	0,000000E+00	0,000000E+00	1,933082E+07	1,943727E+08	5,420659E+08	9,692022E+08	1,297514E+09	1,297477E+09	9,691242E+08	5,420010E+08
2549	1,943393E+08	1,932463E+07	0,000000E+00	0,000000E+00	1,932912E+07	1,943552E+08	5,420136E+08	9,691196E+08	1,297445E+09	1,297454E+09	9,691368E+08	5,420256E+08
2550	1,943631E+08	1,933303E+07	0,000000E+00	0,000000E+00	1,933079E+07	1,943510E+08	5,420052E+08	9,690915E+08	1,297387E+09	1,297394E+09	9,691140E+08	5,420364E+08
2551	1,943819E+08	1,934181E+07	0,000000E+00	0,000000E+00	1,934387E+07	1,943894E+08	5,420402E+08	9,691069E+08	1,297373E+09	1,297343E+09	9,690389E+08	5,419794E+08
2552	1,943535E+08	1,933689E+07	0,000000E+00	0,000000E+00	1,934008E+07	1,943640E+08	5,419814E+08	9,690122E+08	1,297287E+09	1,297309E+09	9,690601E+08	5,420212E+08
2553	1,943908E+08	1,934878E+07	0,000000E+00	0,000000E+00	1,934635E+07	1,943815E+08	5,420123E+08	9,690355E+08	1,297269E+09	1,297256E+09	9,690098E+08	5,419966E+08
2554	1,943813E+08	1,934856E+07	0,000000E+00	0,000000E+00	1,935290E+07	1,943959E+08	5,420139E+08	9,690340E+08	1,297270E+09	1,297247E+09	9,689818E+08	5,419708E+08
2555	1,943682E+08	1,934544E+07	0,000000E+00	0,000000E+00	1,934542E+07	1,943628E+08	5,419566E+08	9,689637E+08	1,297232E+09	1,297260E+09	9,690299E+08	5,420185E+08
2556	1,944023E+08	1,935473E+07	0,000000E+00	0,000000E+00	1,935165E+07	1,943935E+08	5,420123E+08	9,690199E+08	1,297249E+09	1,297235E+09	9,689842E+08	5,419746E+08
2557	1,943688E+08	1,934659E+07	0,000000E+00	0,000000E+00	1,935044E+07	1,943848E+08	5,419893E+08	9,689940E+08	1,297244E+09	1,297258E+09	9,690155E+08	5,419938E+08
2558	1,943761E+08	1,934490E+07	0,000000E+00	0,000000E+00	1,934175E+07	1,943638E+08	5,419824E+08	9,690097E+08	1,297268E+09	1,297284E+09	9,690520E+08	5,420259E+08
2559	1,943940E+08	1,934910E+07	0,000000E+00	0,000000E+00	1,934811E+07	1,943956E+08	5,420411E+08	9,690954E+08	1,297349E+09	1,297317E+09	9,690235E+08	5,419758E+08
2560	1,943534E+08	1,933672E+07	0,000000E+00	0,000000E+00	1,933799E+07	1,943617E+08	5,419944E+08	9,690564E+08	1,297356E+09	1,297373E+09	9,690925E+08	5,420204E+08
2561	1,943746E+08	1,933872E+07	0,000000E+00	0,000000E+00	1,933430E+07	1,943596E+08	5,420150E+08	9,691009E+08	1,297393E+09	1,297394E+09	9,691051E+08	5,420238E+08
2562	1,943706E+08	1,933794E+07	0,000000E+00	0,000000E+00	1,933996E+07	1,943799E+08	5,420392E+08	9,691382E+08	1,297439E+09	1,297421E+09	9,690937E+08	5,419934E+08
2563	1,943432E+08	1,932768E+07	0,000000E+00	0,000000E+00	1,932889E+07	1,943469E+08	5,419910E+08	9,690822E+08	1,297416E+09	1,297451E+09	9,691546E+08	5,420470E+08
2564	1,943771E+08	1,933650E+07	0,000000E+00	0,000000E+00	1,933400E+07	1,943703E+08	5,420447E+08	9,691424E+08	1,297430E+09	1,297417E+09	9,691104E+08	5,420144E+08
2565	1,943555E+08	1,933174E+07	0,000000E+00	0,000000E+00	1,933631E+07	1,943715E+08	5,420297E+08	9,691229E+08	1,297419E+09	1,297408E+09	9,690951E+08	5,420050E+08
2566	1,943542E+08	1,933059E+07	0,000000E+00	0,000000E+00	1,932997E+07	1,943464E+08	5,419910E+08	9,690752E+08	1,297380E+09	1,297393E+09	9,691139E+08	5,420394E+08
2567	1,943877E+08	1,934366E+07	0,000000E+00	0,000000E+00	1,934205E+07	1,943821E+08	5,420346E+08	9,691049E+08	1,297374E+09	1,297344E+09	9,690408E+08	5,419811E+08
2568	1,943553E+08	1,933760E+07	0,000000E+00	0,000000E+00	1,934158E+07	1,943703E+08	5,419894E+08	9,690190E+08	1,297289E+09	1,297301E+09	9,690391E+08	5,419997E+08
2569	1,943771E+08	1,934568E+07	0,000000E+00	0,000000E+00	1,934419E+07	1,943690E+08	5,419854E+08	9,689961E+08	1,297233E+09	1,297241E+09	9,690157E+08	5,420091E+08
2570	1,943948E+08	1,935373E+07	0,000000E+00	0,000000E+00	1,935691E+07	1,944057E+08	5,420195E+08	9,690166E+08	1,297223E+09	1,297190E+09	9,689409E+08	5,419543E+08
2571	1,943669E+08	1,934861E+07	0,000000E+00	0,000000E+00	1,935273E+07	1,943790E+08	5,419583E+08	9,689272E+08	1,297160E+09	1,297178E+09	9,689686E+08	5,419961E+08
2572	1,944048E+08	1,936052E+07	0,000000E+00	0,000000E+00	1,935727E+07	1,943913E+08	5,419846E+08	9,689475E+08	1,297142E+09	1,297131E+09	9,689268E+08	5,419734E+08
2573	1,943944E+08	1,936005E+07	0,000000E+00	0,000000E+00	1,936382E+07	1,944061E+08	5,419800E+08	9,689279E+08	1,297121E+09	1,297110E+09	9,688981E+08	5,419494E+08
2574	1,943816E+08	1,935681E+07	0,000000E+00	0,000000E+00	1,935614E+07	1,943765E+08	5,419355E+08	9,688732E+08	1,297087E+09	1,297120E+09	9,689492E+08	5,420011E+08
2575	1,944158E+08	1,936583E+07	0,000000E+00	0,000000E+00	1,936240E+07	1,944068E+08	5,419960E+08	9,689444E+08	1,297122E+09	1,297107E+09	9,689053E+08	5,419570E+08
2576	1,943822E+08	1,935702E+07	0,000000E+00	0,000000E+00	1,936076E+07	1,943993E+08	5,419802E+08	9,689322E+08	1,297131E+09	1,297131E+09	9,689280E+08	5,419684E+08
2577	1,943861E+08	1,935448E+07	0,000000E+00	0,000000E+00	1,935166E+07	1,943764E+08	5,419690E+08	9,689493E+08	1,297170E+09	1,297179E+09	9,689748E+08	5,419996E+08
2578	1,944019E+08	1,935800E+07	0,000000E+00	0,000000E+00	1,935744E+07	1,944047E+08	5,420192E+08	9,690235E+08	1,297243E+09	1,297215E+09	9,689570E+08	5,419563E+08
2579	1,943623E+08	1,934556E+07	0,000000E+00	0,000000E+00	1,934761E+07	1,943721E+08	5,419706E+08	9,689825E+08	1,297256E+09	1,297279E+09	9,690300E+08	5,420036E+08
2580	1,943847E+08	1,934781E+07	0,000000E+00	0,000000E+00	1,934360E+07	1,943695E+08	5,419923E+08	9,690219E+08	1,297278E+09	1,297286E+09	9,690389E+08	5,420086E+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												
2581	1,943819E+08	1,934728E+07	0,000000E+00	0,000000E+00	1,934973E+07	1,943912E+08	5,420161E+08	9,690497E+08	1,297301E+09	1,297288E+09	9,690142E+08	5,419762E+08
2582	1,943568E+08	1,933786E+07	0,000000E+00	0,000000E+00	1,933884E+07	1,943597E+08	5,419759E+08	9,690088E+08	1,297284E+09	1,297310E+09	9,690685E+08	5,420282E+08
2583	1,943920E+08	1,934794E+07	0,000000E+00	0,000000E+00	1,934431E+07	1,943794E+08	5,420196E+08	9,690614E+08	1,297305E+09	1,297286E+09	9,690230E+08	5,419922E+08
2584	1,943707E+08	1,934380E+07	0,000000E+00	0,000000E+00	1,934733E+07	1,943836E+08	5,420064E+08	9,690337E+08	1,297281E+09	1,297267E+09	9,689986E+08	5,419755E+08
2585	1,943668E+08	1,934302E+07	0,000000E+00	0,000000E+00	1,934235E+07	1,943608E+08	5,419652E+08	9,689789E+08	1,297237E+09	1,297253E+09	9,690213E+08	5,420099E+08
2586	1,943985E+08	1,935545E+07	0,000000E+00	0,000000E+00	1,935494E+07	1,943983E+08	5,420099E+08	9,690047E+08	1,297219E+09	1,297197E+09	9,689510E+08	5,419587E+08
2587	1,943685E+08	1,934947E+07	0,000000E+00	0,000000E+00	1,935509E+07	1,943893E+08	5,419719E+08	9,689360E+08	1,297157E+09	1,297165E+09	9,689490E+08	5,419775E+08
2588	1,943913E+08	1,935746E+07	0,000000E+00	0,000000E+00	1,935637E+07	1,943833E+08	5,419651E+08	9,689159E+08	1,297106E+09	1,297107E+09	9,689270E+08	5,419871E+08
2589	1,944091E+08	1,936535E+07	0,000000E+00	0,000000E+00	1,936824E+07	1,944167E+08	5,419899E+08	9,689198E+08	1,297081E+09	1,297051E+09	9,688519E+08	5,419328E+08
2590	1,943827E+08	1,936084E+07	0,000000E+00	0,000000E+00	1,936376E+07	1,943903E+08	5,419327E+08	9,688349E+08	1,297015E+09	1,297037E+09	9,688853E+08	5,419777E+08
2591	1,944205E+08	1,937293E+07	0,000000E+00	0,000000E+00	1,936823E+07	1,944004E+08	5,419515E+08	9,688477E+08	1,296998E+09	1,296995E+09	9,688448E+08	5,419552E+08
2592	1,944097E+08	1,937205E+07	0,000000E+00	0,000000E+00	1,937529E+07	1,944216E+08	5,419602E+08	9,688343E+08	1,296972E+09	1,296962E+09	9,688038E+08	5,419240E+08
2593	1,943936E+08	1,936785E+07	0,000000E+00	0,000000E+00	1,936777E+07	1,943934E+08	5,419227E+08	9,687972E+08	1,296956E+09	1,296983E+09	9,688569E+08	5,419722E+08
2594	1,944244E+08	1,937532E+07	0,000000E+00	0,000000E+00	1,937309E+07	1,944205E+08	5,419815E+08	9,688780E+08	1,297009E+09	1,296983E+09	9,688214E+08	5,419332E+08
2595	1,943919E+08	1,936634E+07	0,000000E+00	0,000000E+00	1,937082E+07	1,944111E+08	5,419627E+08	9,688740E+08	1,297045E+09	1,297035E+09	9,688546E+08	5,419453E+08
2596	1,943953E+08	1,936350E+07	0,000000E+00	0,000000E+00	1,936036E+07	1,943837E+08	5,419456E+08	9,688814E+08	1,297076E+09	1,297088E+09	9,689131E+08	5,419817E+08
2597	1,944114E+08	1,936704E+07	0,000000E+00	0,000000E+00	1,936618E+07	1,944118E+08	5,419885E+08	9,689334E+08	1,297120E+09	1,297105E+09	9,688935E+08	5,419426E+08
2598	1,943747E+08	1,935526E+07	0,000000E+00	0,000000E+00	1,935689E+07	1,943839E+08	5,419518E+08	9,689013E+08	1,297123E+09	1,297154E+09	9,689626E+08	5,419924E+08
2599	1,943988E+08	1,935822E+07	0,000000E+00	0,000000E+00	1,935345E+07	1,943801E+08	5,419712E+08	9,689438E+08	1,297153E+09	1,297161E+09	9,689642E+08	5,419945E+08
2600	1,943973E+08	1,935801E+07	0,000000E+00	0,000000E+00	1,935992E+07	1,944047E+08	5,420007E+08	9,689748E+08	1,297175E+09	1,297152E+09	9,689215E+08	5,419508E+08
2601	1,943694E+08	1,934880E+07	0,000000E+00	0,000000E+00	1,934968E+07	1,943729E+08	5,419572E+08	9,689333E+08	1,297165E+09	1,297184E+09	9,689776E+08	5,419976E+08
2602	1,944015E+08	1,935850E+07	0,000000E+00	0,000000E+00	1,935550E+07	1,943912E+08	5,419946E+08	9,689755E+08	1,297175E+09	1,297157E+09	9,689382E+08	5,419679E+08
2603	1,943822E+08	1,935489E+07	0,000000E+00	0,000000E+00	1,935945E+07	1,943981E+08	5,419807E+08	9,689474E+08	1,297156E+09	1,297140E+09	9,689132E+08	5,419514E+08
2604	1,943784E+08	1,935433E+07	0,000000E+00	0,000000E+00	1,935461E+07	1,943766E+08	5,419438E+08	9,688890E+08	1,297098E+09	1,297118E+09	9,689367E+08	5,419890E+08
2605	1,944113E+08	1,936666E+07	0,000000E+00	0,000000E+00	1,936707E+07	1,944134E+08	5,419865E+08	9,689067E+08	1,297062E+09	1,297042E+09	9,688573E+08	5,419381E+08
2606	1,943843E+08	1,936159E+07	0,000000E+00	0,000000E+00	1,936714E+07	1,944042E+08	5,419523E+08	9,688498E+08	1,297008E+09	1,297011E+09	9,688546E+08	5,419573E+08
2607	1,944087E+08	1,937056E+07	0,000000E+00	0,000000E+00	1,936808E+07	1,943932E+08	5,419331E+08	9,688206E+08	1,296966E+09	1,296967E+09	9,688355E+08	5,419655E+08
2608	1,944265E+08	1,937848E+07	0,000000E+00	0,000000E+00	1,937991E+07	1,944289E+08	5,419603E+08	9,688163E+08	1,296927E+09	1,296898E+09	9,687514E+08	5,419042E+08
2609	1,943968E+08	1,937372E+07	0,000000E+00	0,000000E+00	1,937633E+07	1,944054E+08	5,419069E+08	9,687366E+08	1,296866E+09	1,296890E+09	9,687875E+08	5,419471E+08
2610	1,944307E+08	1,938411E+07	0,000000E+00	0,000000E+00	1,938058E+07	1,944171E+08	5,419315E+08	9,687574E+08	1,296852E+09	1,296850E+09	9,687540E+08	5,419314E+08
2611	1,944210E+08	1,938264E+07	0,000000E+00	0,000000E+00	1,938725E+07	1,944391E+08	5,419481E+08	9,687706E+08	1,296864E+09	1,296840E+09	9,687190E+08	5,418997E+08
2612	1,944037E+08	1,937751E+07	0,000000E+00	0,000000E+00	1,937797E+07	1,944065E+08	5,419098E+08	9,687395E+08	1,296863E+09	1,296881E+09	9,687844E+08	5,419511E+08
2613	1,944339E+08	1,938430E+07	0,000000E+00	0,000000E+00	1,938183E+07	1,944285E+08	5,419573E+08	9,688028E+08	1,296902E+09	1,296882E+09	9,687563E+08	5,419174E+08
2614	1,944044E+08	1,937607E+07	0,000000E+00	0,000000E+00	1,937926E+07	1,944186E+08	5,419394E+08	9,687997E+08	1,296935E+09	1,296933E+09	9,687974E+08	5,419349E+08
2615	1,944091E+08	1,937373E+07	0,000000E+00	0,000000E+00	1,936915E+07	1,943896E+08	5,419130E+08	9,687934E+08	1,296958E+09	1,296981E+09	9,688521E+08	5,419718E+08
2616	1,944262E+08	1,937731E+07	0,000000E+00	0,000000E+00	1,937569E+07	1,944238E+08	5,419672E+08	9,688440E+08	1,296981E+09	1,296972E+09	9,688118E+08	5,419235E+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												
2617	1,943874E+08	1,936543E+07	0,000000E+00	0,000000E+00	1,936747E+07	1,943989E+08	5,419385E+08	9,688277E+08	1,296994E+09	1,297017E+09	9,688710E+08	5,419653E+08
2618	1,944082E+08	1,936757E+07	0,000000E+00	0,000000E+00	1,936404E+07	1,943934E+08	5,419539E+08	9,688706E+08	1,297030E+09	1,297028E+09	9,688739E+08	5,419693E+08
2619	1,944084E+08	1,936806E+07	0,000000E+00	0,000000E+00	1,937072E+07	1,944179E+08	5,419814E+08	9,689076E+08	1,297073E+09	1,297037E+09	9,688350E+08	5,419226E+08
2620	1,943791E+08	1,935906E+07	0,000000E+00	0,000000E+00	1,936035E+07	1,943849E+08	5,419341E+08	9,688541E+08	1,297050E+09	1,297069E+09	9,688978E+08	5,419720E+08
2621	1,944105E+08	1,936871E+07	0,000000E+00	0,000000E+00	1,936638E+07	1,944030E+08	5,419656E+08	9,688772E+08	1,297033E+09	1,297024E+09	9,688567E+08	5,419482E+08
2622	1,943957E+08	1,936624E+07	0,000000E+00	0,000000E+00	1,937108E+07	1,944142E+08	5,419634E+08	9,688605E+08	1,297010E+09	1,296998E+09	9,688317E+08	5,419357E+08
2623	1,943945E+08	1,936668E+07	0,000000E+00	0,000000E+00	1,936650E+07	1,943893E+08	5,419194E+08	9,688013E+08	1,296959E+09	1,296978E+09	9,688503E+08	5,419728E+08
2624	1,944297E+08	1,937932E+07	0,000000E+00	0,000000E+00	1,937873E+07	1,944274E+08	5,419637E+08	9,688149E+08	1,296917E+09	1,296891E+09	9,687569E+08	5,419129E+08
2625	1,944011E+08	1,937475E+07	0,000000E+00	0,000000E+00	1,937946E+07	1,944177E+08	5,419267E+08	9,687562E+08	1,296866E+09	1,296866E+09	9,687549E+08	5,419271E+08
2626	1,944218E+08	1,938279E+07	0,000000E+00	0,000000E+00	1,938039E+07	1,944056E+08	5,419015E+08	9,687176E+08	1,296816E+09	1,296822E+09	9,687428E+08	5,419407E+08
2627	1,944401E+08	1,939059E+07	0,000000E+00	0,000000E+00	1,939251E+07	1,944440E+08	5,419330E+08	9,687233E+08	1,296792E+09	1,296760E+09	9,686585E+08	5,418776E+08
2628	1,944083E+08	1,938503E+07	0,000000E+00	0,000000E+00	1,938859E+07	1,944224E+08	5,418890E+08	9,686514E+08	1,296730E+09	1,296754E+09	9,686991E+08	5,419221E+08
2629	1,944405E+08	1,939412E+07	0,000000E+00	0,000000E+00	1,939159E+07	1,944314E+08	5,419134E+08	9,686759E+08	1,296717E+09	1,296712E+09	9,686660E+08	5,419099E+08
2630	1,944341E+08	1,939325E+07	0,000000E+00	0,000000E+00	1,939754E+07	1,944519E+08	5,419332E+08	9,687024E+08	1,296747E+09	1,296719E+09	9,686429E+08	5,418823E+08
2631	1,944181E+08	1,938862E+07	0,000000E+00	0,000000E+00	1,938744E+07	1,944135E+08	5,418819E+08	9,686614E+08	1,296755E+09	1,296777E+09	9,687170E+08	5,419358E+08
2632	1,944486E+08	1,939518E+07	0,000000E+00	0,000000E+00	1,939109E+07	1,944376E+08	5,419302E+08	9,687126E+08	1,296775E+09	1,296763E+09	9,686813E+08	5,418982E+08
2633	1,944175E+08	1,938687E+07	0,000000E+00	0,000000E+00	1,938951E+07	1,944304E+08	5,419161E+08	9,687133E+08	1,296807E+09	1,296811E+09	9,687190E+08	5,419125E+08
2634	1,944188E+08	1,938299E+07	0,000000E+00	0,000000E+00	1,937977E+07	1,944041E+08	5,418948E+08	9,687122E+08	1,296828E+09	1,296853E+09	9,687735E+08	5,419530E+08
2635	1,944371E+08	1,938649E+07	0,000000E+00	0,000000E+00	1,938619E+07	1,944382E+08	5,419539E+08	9,687844E+08	1,296880E+09	1,296853E+09	9,687277E+08	5,418987E+08
2636	1,943962E+08	1,937422E+07	0,000000E+00	0,000000E+00	1,937739E+07	1,944125E+08	5,419267E+08	9,687700E+08	1,296898E+09	1,296910E+09	9,687920E+08	5,419397E+08
2637	1,944159E+08	1,937621E+07	0,000000E+00	0,000000E+00	1,937324E+07	1,944034E+08	5,419324E+08	9,687946E+08	1,296916E+09	1,296914E+09	9,687978E+08	5,419475E+08
2638	1,944199E+08	1,937812E+07	0,000000E+00	0,000000E+00	1,938026E+07	1,944283E+08	5,419597E+08	9,688279E+08	1,296951E+09	1,296921E+09	9,687667E+08	5,419070E+08
2639	1,943933E+08	1,937050E+07	0,000000E+00	0,000000E+00	1,937077E+07	1,943946E+08	5,419039E+08	9,687609E+08	1,296920E+09	1,296949E+09	9,688252E+08	5,419579E+08
2640	1,944267E+08	1,938048E+07	0,000000E+00	0,000000E+00	1,937749E+07	1,944174E+08	5,419428E+08	9,687780E+08	1,296878E+09	1,296873E+09	9,687639E+08	5,419270E+08
2641	1,944118E+08	1,937864E+07	0,000000E+00	0,000000E+00	1,938331E+07	1,944295E+08	5,419440E+08	9,687734E+08	1,296866E+09	1,296845E+09	9,687288E+08	5,419074E+08
2642	1,944083E+08	1,937861E+07	0,000000E+00	0,000000E+00	1,937915E+07	1,944036E+08	5,418936E+08	9,687083E+08	1,296815E+09	1,296827E+09	9,687499E+08	5,419467E+08
2643	1,944448E+08	1,939176E+07	0,000000E+00	0,000000E+00	1,939115E+07	1,944401E+08	5,419351E+08	9,687262E+08	1,296788E+09	1,296753E+09	9,686584E+08	5,418823E+08
2644	1,944135E+08	1,938700E+07	0,000000E+00	0,000000E+00	1,939212E+07	1,944324E+08	5,419001E+08	9,686602E+08	1,296725E+09	1,296728E+09	9,686627E+08	5,418987E+08
2645	1,944325E+08	1,939426E+07	0,000000E+00	0,000000E+00	1,939251E+07	1,944206E+08	5,418741E+08	9,686118E+08	1,296658E+09	1,296672E+09	9,686506E+08	5,419173E+08
2646	1,944537E+08	1,940233E+07	0,000000E+00	0,000000E+00	1,940452E+07	1,944615E+08	5,419184E+08	9,686377E+08	1,296645E+09	1,296618E+09	9,685750E+08	5,418596E+08
2647	1,944238E+08	1,939711E+07	0,000000E+00	0,000000E+00	1,939994E+07	1,944352E+08	5,418689E+08	9,685745E+08	1,296609E+09	1,296628E+09	9,686186E+08	5,419046E+08
2648	1,944560E+08	1,940541E+07	0,000000E+00	0,000000E+00	1,940183E+07	1,944439E+08	5,418939E+08	9,685966E+08	1,296595E+09	1,296587E+09	9,685817E+08	5,418879E+08
2649	1,944486E+08	1,940478E+07	0,000000E+00	0,000000E+00	1,940787E+07	1,944622E+08	5,419113E+08	9,686257E+08	1,296633E+09	1,296605E+09	9,685644E+08	5,418589E+08
2650	1,944291E+08	1,939873E+07	0,000000E+00	0,000000E+00	1,939773E+07	1,944232E+08	5,418534E+08	9,685736E+08	1,296632E+09	1,296662E+09	9,686457E+08	5,419184E+08
2651	1,944604E+08	1,940505E+07	0,000000E+00	0,000000E+00	1,940132E+07	1,944491E+08	5,419065E+08	9,686342E+08	1,296661E+09	1,296648E+09	9,686060E+08	5,418771E+08
2652	1,944268E+08	1,939588E+07	0,000000E+00	0,000000E+00	1,939982E+07	1,944453E+08	5,419025E+08	9,686405E+08	1,296686E+09	1,296691E+09	9,686406E+08	5,418897E+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°
2653	1,944261E+08	1,939094E+07	0,000000E+00	0,000000E+00	1,938901E+07	1,944162E+08	5,418790E+08	9,686400E+08	1,296707E+09	1,296726E+09	9,686905E+08	5,419310E+08
2654	1,944479E+08	1,939558E+07	0,000000E+00	0,000000E+00	1,939518E+07	1,944492E+08	5,419398E+08	9,687203E+08	1,296772E+09	1,296741E+09	9,686553E+08	5,418800E+08
2655	1,944094E+08	1,938467E+07	0,000000E+00	0,000000E+00	1,938629E+07	1,944192E+08	5,418999E+08	9,686933E+08	1,296793E+09	1,296807E+09	9,687227E+08	5,419215E+08
2656	1,944292E+08	1,938702E+07	0,000000E+00	0,000000E+00	1,938280E+07	1,944135E+08	5,419060E+08	9,687028E+08	1,296784E+09	1,296790E+09	9,687179E+08	5,419258E+08
2657	1,944334E+08	1,938983E+07	0,000000E+00	0,000000E+00	1,939136E+07	1,944418E+08	5,419379E+08	9,687383E+08	1,296814E+09	1,296788E+09	9,686800E+08	5,418833E+08
2658	1,944054E+08	1,938149E+07	0,000000E+00	0,000000E+00	1,938300E+07	1,944105E+08	5,418839E+08	9,686718E+08	1,296778E+09	1,296807E+09	9,687374E+08	5,419375E+08
2659	1,944409E+08	1,939189E+07	0,000000E+00	0,000000E+00	1,938964E+07	1,944321E+08	5,419238E+08	9,687038E+08	1,296757E+09	1,296738E+09	9,686694E+08	5,419005E+08
2660	1,944246E+08	1,938999E+07	0,000000E+00	0,000000E+00	1,939545E+07	1,944447E+08	5,419240E+08	9,686917E+08	1,296739E+09	1,296715E+09	9,686379E+08	5,418800E+08
2661	1,944195E+08	1,938974E+07	0,000000E+00	0,000000E+00	1,939074E+07	1,944157E+08	5,418653E+08	9,686093E+08	1,296669E+09	1,296686E+09	9,686593E+08	5,419227E+08
2662	1,944592E+08	1,940387E+07	0,000000E+00	0,000000E+00	1,940295E+07	1,944532E+08	5,419081E+08	9,686259E+08	1,296636E+09	1,296613E+09	9,685752E+08	5,418630E+08
2663	1,944296E+08	1,940004E+07	0,000000E+00	0,000000E+00	1,940439E+07	1,944459E+08	5,418711E+08	9,685570E+08	1,296573E+09	1,296585E+09	9,685752E+08	5,418792E+08
2664	1,944485E+08	1,940669E+07	0,000000E+00	0,000000E+00	1,940467E+07	1,944380E+08	5,418555E+08	9,685143E+08	1,296498E+09	1,296512E+09	9,685490E+08	5,418912E+08
2665	1,944687E+08	1,941481E+07	0,000000E+00	0,000000E+00	1,941666E+07	1,944769E+08	5,419026E+08	9,685588E+08	1,296510E+09	1,296471E+09	9,684737E+08	5,418315E+08
2666	1,944368E+08	1,940863E+07	0,000000E+00	0,000000E+00	1,941184E+07	1,944485E+08	5,418467E+08	9,684941E+08	1,296486E+09	1,296500E+09	9,685310E+08	5,418809E+08
2667	1,944692E+08	1,941656E+07	0,000000E+00	0,000000E+00	1,941266E+07	1,944537E+08	5,418679E+08	9,685211E+08	1,296487E+09	1,296472E+09	9,685002E+08	5,418617E+08
2668	1,944586E+08	1,941513E+07	0,000000E+00	0,000000E+00	1,941865E+07	1,944742E+08	5,418873E+08	9,685429E+08	1,296515E+09	1,296494E+09	9,684924E+08	5,418368E+08
2669	1,944371E+08	1,940777E+07	0,000000E+00	0,000000E+00	1,940769E+07	1,944357E+08	5,418314E+08	9,684852E+08	1,296497E+09	1,296537E+09	9,685717E+08	5,419007E+08
2670	1,944712E+08	1,941417E+07	0,000000E+00	0,000000E+00	1,941083E+07	1,944618E+08	5,418927E+08	9,685613E+08	1,296538E+09	1,296531E+09	9,685391E+08	5,418632E+08
2671	1,944400E+08	1,940573E+07	0,000000E+00	0,000000E+00	1,940878E+07	1,944546E+08	5,418843E+08	9,685750E+08	1,296584E+09	1,296584E+09	9,685713E+08	5,418740E+08
2672	1,944394E+08	1,940064E+07	0,000000E+00	0,000000E+00	1,939749E+07	1,944263E+08	5,418606E+08	9,685667E+08	1,296594E+09	1,296611E+09	9,686124E+08	5,419087E+08
2673	1,944605E+08	1,940622E+07	0,000000E+00	0,000000E+00	1,940434E+07	1,944579E+08	5,419189E+08	9,686473E+08	1,296662E+09	1,296631E+09	9,685786E+08	5,418574E+08
2674	1,944206E+08	1,939483E+07	0,000000E+00	0,000000E+00	1,939667E+07	1,944298E+08	5,418738E+08	9,686078E+08	1,296670E+09	1,296690E+09	9,686493E+08	5,419029E+08
2675	1,944411E+08	1,939740E+07	0,000000E+00	0,000000E+00	1,939378E+07	1,944263E+08	5,418845E+08	9,686238E+08	1,296663E+09	1,296666E+09	9,686361E+08	5,419023E+08
2676	1,944433E+08	1,939985E+07	0,000000E+00	0,000000E+00	1,940306E+07	1,944583E+08	5,419240E+08	9,686609E+08	1,296683E+09	1,296656E+09	9,685942E+08	5,418589E+08
2677	1,944149E+08	1,939130E+07	0,000000E+00	0,000000E+00	1,939433E+07	1,944248E+08	5,418648E+08	9,685873E+08	1,296638E+09	1,296663E+09	9,686440E+08	5,419139E+08
2678	1,944548E+08	1,940314E+07	0,000000E+00	0,000000E+00	1,940086E+07	1,944442E+08	5,419008E+08	9,686163E+08	1,296622E+09	1,296607E+09	9,685862E+08	5,418798E+08
2679	1,944411E+08	1,940281E+07	0,000000E+00	0,000000E+00	1,940677E+07	1,944543E+08	5,418913E+08	9,685924E+08	1,296600E+09	1,296583E+09	9,685533E+08	5,418592E+08
2680	1,944359E+08	1,940274E+07	0,000000E+00	0,000000E+00	1,940265E+07	1,944296E+08	5,418355E+08	9,684988E+08	1,296504E+09	1,296530E+09	9,685612E+08	5,418968E+08
2681	1,944748E+08	1,941726E+07	0,000000E+00	0,000000E+00	1,941572E+07	1,944694E+08	5,418867E+08	9,685280E+08	1,296478E+09	1,296454E+09	9,684725E+08	5,418362E+08
2682	1,944436E+08	1,941237E+07	0,000000E+00	0,000000E+00	1,941777E+07	1,944635E+08	5,418523E+08	9,684682E+08	1,296425E+09	1,296431E+09	9,684765E+08	5,418542E+08
2683	1,944624E+08	1,941859E+07	0,000000E+00	0,000000E+00	1,941704E+07	1,944529E+08	5,418390E+08	9,684459E+08	1,296381E+09	1,296379E+09	9,684534E+08	5,418617E+08
2684	1,944797E+08	1,942593E+07	0,000000E+00	0,000000E+00	1,942845E+07	1,944915E+08	5,418845E+08	9,684840E+08	1,296396E+09	1,296355E+09	9,683926E+08	5,418057E+08
2685	1,944465E+08	1,941894E+07	0,000000E+00	0,000000E+00	1,942231E+07	1,944584E+08	5,418193E+08	9,684050E+08	1,296358E+09	1,296381E+09	9,684566E+08	5,418619E+08
2686	1,944818E+08	1,942705E+07	0,000000E+00	0,000000E+00	1,942268E+07	1,944633E+08	5,418404E+08	9,684305E+08	1,296359E+09	1,296361E+09	9,684381E+08	5,418496E+08
2687	1,944734E+08	1,942617E+07	0,000000E+00	0,000000E+00	1,942839E+07	1,944835E+08	5,418593E+08	9,684509E+08	1,296383E+09	1,296375E+09	9,684242E+08	5,418242E+08
2688	1,944513E+08	1,941789E+07	0,000000E+00	0,000000E+00	1,941724E+07	1,944488E+08	5,418139E+08	9,684011E+08	1,296357E+09	1,296397E+09	9,684851E+08	5,418795E+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												
2689	1,944841E+08	1,942452E+07	0,000000E+00	0,000000E+00	1,942045E+07	1,944730E+08	5,418777E+08	9,684938E+08	1,296421E+09	1,296401E+09	9,684495E+08	5,418384E+08
2690	1,944512E+08	1,941551E+07	0,000000E+00	0,000000E+00	1,941884E+07	1,944656E+08	5,418645E+08	9,685042E+08	1,296475E+09	1,296470E+09	9,684914E+08	5,418502E+08
2691	1,944500E+08	1,941053E+07	0,000000E+00	0,000000E+00	1,940739E+07	1,944364E+08	5,418408E+08	9,685019E+08	1,296494E+09	1,296504E+09	9,685343E+08	5,418809E+08
2692	1,944675E+08	1,941569E+07	0,000000E+00	0,000000E+00	1,941510E+07	1,944719E+08	5,419008E+08	9,685717E+08	1,296548E+09	1,296521E+09	9,685070E+08	5,418347E+08
2693	1,944277E+08	1,940377E+07	0,000000E+00	0,000000E+00	1,940724E+07	1,944444E+08	5,418563E+08	9,685259E+08	1,296539E+09	1,296564E+09	9,685725E+08	5,418841E+08
2694	1,944521E+08	1,940704E+07	0,000000E+00	0,000000E+00	1,940449E+07	1,944402E+08	5,418694E+08	9,685487E+08	1,296539E+09	1,296545E+09	9,685648E+08	5,418877E+08
2695	1,944582E+08	1,941082E+07	0,000000E+00	0,000000E+00	1,941326E+07	1,944683E+08	5,419009E+08	9,685831E+08	1,296565E+09	1,296536E+09	9,685176E+08	5,418428E+08
2696	1,944309E+08	1,940282E+07	0,000000E+00	0,000000E+00	1,940490E+07	1,944367E+08	5,418402E+08	9,684951E+08	1,296497E+09	1,296523E+09	9,685535E+08	5,418904E+08
2697	1,944708E+08	1,941593E+07	0,000000E+00	0,000000E+00	1,941212E+07	1,944543E+08	5,418718E+08	9,685198E+08	1,296477E+09	1,296463E+09	9,684921E+08	5,418555E+08
2698	1,944563E+08	1,941547E+07	0,000000E+00	0,000000E+00	1,941958E+07	1,944685E+08	5,418608E+08	9,684868E+08	1,296444E+09	1,296432E+09	9,684588E+08	5,418356E+08
2699	1,944509E+08	1,941550E+07	0,000000E+00	0,000000E+00	1,941576E+07	1,944460E+08	5,418141E+08	9,684080E+08	1,296355E+09	1,296374E+09	9,684565E+08	5,418647E+08
2700	1,944851E+08	1,942886E+07	0,000000E+00	0,000000E+00	1,942898E+07	1,944882E+08	5,418723E+08	9,684456E+08	1,296335E+09	1,296304E+09	9,683724E+08	5,418065E+08
2701	1,944538E+08	1,942343E+07	0,000000E+00	0,000000E+00	1,942995E+07	1,944785E+08	5,418331E+08	9,683861E+08	1,296290E+09	1,296288E+09	9,683806E+08	5,418283E+08
2702	1,944756E+08	1,943008E+07	0,000000E+00	0,000000E+00	1,942831E+07	1,944641E+08	5,418137E+08	9,683597E+08	1,296257E+09	1,296262E+09	9,683790E+08	5,418428E+08
2703	1,944952E+08	1,943824E+07	0,000000E+00	0,000000E+00	1,943893E+07	1,944993E+08	5,418513E+08	9,683897E+08	1,296268E+09	1,296240E+09	9,683240E+08	5,417913E+08
2704	1,944623E+08	1,943082E+07	0,000000E+00	0,000000E+00	1,943297E+07	1,944705E+08	5,417905E+08	9,683016E+08	1,296206E+09	1,296242E+09	9,683753E+08	5,418434E+08
2705	1,944965E+08	1,943864E+07	0,000000E+00	0,000000E+00	1,943338E+07	1,944760E+08	5,418191E+08	9,683427E+08	1,296218E+09	1,296222E+09	9,683517E+08	5,418300E+08
2706	1,944863E+08	1,943651E+07	0,000000E+00	0,000000E+00	1,943939E+07	1,944976E+08	5,418422E+08	9,683755E+08	1,296258E+09	1,296244E+09	9,683399E+08	5,418036E+08
2707	1,944633E+08	1,942761E+07	0,000000E+00	0,000000E+00	1,942722E+07	1,944611E+08	5,418018E+08	9,683474E+08	1,296260E+09	1,296281E+09	9,683990E+08	5,418502E+08
2708	1,944908E+08	1,943323E+07	0,000000E+00	0,000000E+00	1,943033E+07	1,944859E+08	5,418652E+08	9,684358E+08	1,296326E+09	1,296301E+09	9,683777E+08	5,418137E+08
2709	1,944575E+08	1,942389E+07	0,000000E+00	0,000000E+00	1,942798E+07	1,944757E+08	5,418444E+08	9,684337E+08	1,296368E+09	1,296365E+09	9,684239E+08	5,418311E+08
2710	1,944591E+08	1,941944E+07	0,000000E+00	0,000000E+00	1,941683E+07	1,944473E+08	5,418194E+08	9,684237E+08	1,296383E+09	1,296407E+09	9,684781E+08	5,418686E+08
2711	1,944800E+08	1,942562E+07	0,000000E+00	0,000000E+00	1,942450E+07	1,944821E+08	5,418782E+08	9,684902E+08	1,296427E+09	1,296410E+09	9,684426E+08	5,418235E+08
2712	1,944419E+08	1,941385E+07	0,000000E+00	0,000000E+00	1,941701E+07	1,944569E+08	5,418373E+08	9,684423E+08	1,296400E+09	1,296423E+09	9,684861E+08	5,418650E+08
2713	1,944673E+08	1,941843E+07	0,000000E+00	0,000000E+00	1,941480E+07	1,944500E+08	5,418461E+08	9,684689E+08	1,296411E+09	1,296407E+09	9,684715E+08	5,418654E+08
2714	1,944736E+08	1,942254E+07	0,000000E+00	0,000000E+00	1,942451E+07	1,944783E+08	5,418703E+08	9,684891E+08	1,296428E+09	1,296399E+09	9,684263E+08	5,418187E+08
2715	1,944458E+08	1,941527E+07	0,000000E+00	0,000000E+00	1,941685E+07	1,944488E+08	5,418137E+08	9,684068E+08	1,296358E+09	1,296379E+09	9,684544E+08	5,418582E+08
2716	1,944810E+08	1,942786E+07	0,000000E+00	0,000000E+00	1,942533E+07	1,944722E+08	5,418500E+08	9,684244E+08	1,296327E+09	1,296315E+09	9,683964E+08	5,418265E+08
2717	1,944660E+08	1,942673E+07	0,000000E+00	0,000000E+00	1,943247E+07	1,944866E+08	5,418419E+08	9,683929E+08	1,296288E+09	1,296276E+09	9,683598E+08	5,418093E+08
2718	1,944634E+08	1,942715E+07	0,000000E+00	0,000000E+00	1,942843E+07	1,944629E+08	5,417975E+08	9,683256E+08	1,296222E+09	1,296241E+09	9,683717E+08	5,418438E+08
2719	1,945002E+08	1,944108E+07	0,000000E+00	0,000000E+00	1,944034E+07	1,944999E+08	5,418476E+08	9,683620E+08	1,296212E+09	1,296180E+09	9,682926E+08	5,417890E+08
2720	1,944706E+08	1,943588E+07	0,000000E+00	0,000000E+00	1,944111E+07	1,944901E+08	5,418056E+08	9,682910E+08	1,296149E+09	1,296152E+09	9,682952E+08	5,418077E+08
2721	1,944921E+08	1,944292E+07	0,000000E+00	0,000000E+00	1,943952E+07	1,944736E+08	5,417825E+08	9,682640E+08	1,296118E+09	1,296127E+09	9,682944E+08	5,418244E+08
2722	1,945106E+08	1,945023E+07	0,000000E+00	0,000000E+00	1,945076E+07	1,945118E+08	5,418205E+08	9,682875E+08	1,296120E+09	1,296102E+09	9,682407E+08	5,417730E+08
2723	1,944766E+08	1,944213E+07	0,000000E+00	0,000000E+00	1,944466E+07	1,944859E+08	5,417747E+08	9,682232E+08	1,296068E+09	1,296097E+09	9,682793E+08	5,418145E+08
2724	1,945047E+08	1,944814E+07	0,000000E+00	0,000000E+00	1,944483E+07	1,944932E+08	5,418089E+08	9,682752E+08	1,296095E+09	1,296088E+09	9,682608E+08	5,418021E+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												
2725	1,944935E+08	1,944519E+07	0,000000E+00	0,000000E+00	1,944934E+07	1,945106E+08	5,418275E+08	9,683108E+08	1,296148E+09	1,296123E+09	9,682551E+08	5,417782E+08
2726	1,944725E+08	1,943663E+07	0,000000E+00	0,000000E+00	1,943649E+07	1,944714E+08	5,417826E+08	9,682806E+08	1,296166E+09	1,296192E+09	9,683367E+08	5,418309E+08
2727	1,945013E+08	1,944288E+07	0,000000E+00	0,000000E+00	1,943888E+07	1,944930E+08	5,418391E+08	9,683612E+08	1,296226E+09	1,296211E+09	9,683225E+08	5,418017E+08
2728	1,944703E+08	1,943380E+07	0,000000E+00	0,000000E+00	1,943702E+07	1,944865E+08	5,418216E+08	9,683490E+08	1,296242E+09	1,296247E+09	9,683545E+08	5,418161E+08
2729	1,944724E+08	1,942979E+07	0,000000E+00	0,000000E+00	1,942643E+07	1,944580E+08	5,417995E+08	9,683461E+08	1,296258E+09	1,296281E+09	9,684008E+08	5,418537E+08
2730	1,944941E+08	1,943586E+07	0,000000E+00	0,000000E+00	1,943482E+07	1,944932E+08	5,418565E+08	9,684123E+08	1,296304E+09	1,296284E+09	9,683627E+08	5,418065E+08
2731	1,944568E+08	1,942465E+07	0,000000E+00	0,000000E+00	1,942747E+07	1,944686E+08	5,418193E+08	9,683733E+08	1,296283E+09	1,296293E+09	9,683932E+08	5,418358E+08
2732	1,944772E+08	1,942893E+07	0,000000E+00	0,000000E+00	1,942616E+07	1,944634E+08	5,418238E+08	9,683867E+08	1,296285E+09	1,296280E+09	9,683856E+08	5,418387E+08
2733	1,944835E+08	1,943313E+07	0,000000E+00	0,000000E+00	1,943576E+07	1,944909E+08	5,418434E+08	9,683957E+08	1,296287E+09	1,296260E+09	9,683380E+08	5,417949E+08
2734	1,944582E+08	1,942664E+07	0,000000E+00	0,000000E+00	1,942899E+07	1,944640E+08	5,417883E+08	9,683087E+08	1,296216E+09	1,296249E+09	9,683724E+08	5,418368E+08
2735	1,944943E+08	1,943971E+07	0,000000E+00	0,000000E+00	1,943716E+07	1,944869E+08	5,418279E+08	9,683325E+08	1,296182E+09	1,296173E+09	9,683093E+08	5,418072E+08
2736	1,944814E+08	1,943876E+07	0,000000E+00	0,000000E+00	1,944442E+07	1,945024E+08	5,418223E+08	9,683026E+08	1,296136E+09	1,296117E+09	9,682581E+08	5,417843E+08
2737	1,944795E+08	1,944011E+07	0,000000E+00	0,000000E+00	1,944038E+07	1,944751E+08	5,417730E+08	9,682392E+08	1,296086E+09	1,296095E+09	9,682734E+08	5,418201E+08
2738	1,945166E+08	1,945386E+07	0,000000E+00	0,000000E+00	1,945253E+07	1,945113E+08	5,418156E+08	9,682633E+08	1,296071E+09	1,296044E+09	9,682045E+08	5,417677E+08
2739	1,944873E+08	1,944896E+07	0,000000E+00	0,000000E+00	1,945350E+07	1,945031E+08	5,417791E+08	9,681998E+08	1,296007E+09	1,296010E+09	9,682006E+08	5,417793E+08
2740	1,945030E+08	1,945444E+07	0,000000E+00	0,000000E+00	1,945242E+07	1,944912E+08	5,417608E+08	9,681708E+08	1,295973E+09	1,295986E+09	9,682054E+08	5,417992E+08
2741	1,945201E+08	1,946035E+07	0,000000E+00	0,000000E+00	1,946230E+07	1,945276E+08	5,418033E+08	9,682040E+08	1,295980E+09	1,295958E+09	9,681502E+08	5,417497E+08
2742	1,944875E+08	1,945192E+07	0,000000E+00	0,000000E+00	1,945544E+07	1,945005E+08	5,417603E+08	9,681546E+08	1,295960E+09	1,295986E+09	9,682034E+08	5,417934E+08
2743	1,945159E+08	1,945783E+07	0,000000E+00	0,000000E+00	1,945376E+07	1,945028E+08	5,417901E+08	9,682099E+08	1,295999E+09	1,295989E+09	9,681944E+08	5,417857E+08
2744	1,945065E+08	1,945510E+07	0,000000E+00	0,000000E+00	1,945780E+07	1,945189E+08	5,418047E+08	9,682347E+08	1,296037E+09	1,296015E+09	9,681864E+08	5,417611E+08
2745	1,944861E+08	1,944723E+07	0,000000E+00	0,000000E+00	1,944526E+07	1,944785E+08	5,417566E+08	9,682035E+08	1,296057E+09	1,296084E+09	9,682703E+08	5,418175E+08
2746	1,945147E+08	1,945305E+07	0,000000E+00	0,000000E+00	1,944860E+07	1,945028E+08	5,418114E+08	9,682716E+08	1,296101E+09	1,296095E+09	9,682542E+08	5,417884E+08
2747	1,944843E+08	1,944405E+07	0,000000E+00	0,000000E+00	1,944710E+07	1,944991E+08	5,418069E+08	9,682781E+08	1,296116E+09	1,296115E+09	9,682673E+08	5,417910E+08
2748	1,944811E+08	1,943902E+07	0,000000E+00	0,000000E+00	1,943742E+07	1,944733E+08	5,417855E+08	9,682764E+08	1,296138E+09	1,296150E+09	9,683129E+08	5,418279E+08
2749	1,945028E+08	1,944501E+07	0,000000E+00	0,000000E+00	1,944489E+07	1,945041E+08	5,418342E+08	9,683343E+08	1,296182E+09	1,296154E+09	9,682738E+08	5,417807E+08
2750	1,944680E+08	1,943490E+07	0,000000E+00	0,000000E+00	1,943822E+07	1,944806E+08	5,417946E+08	9,682888E+08	1,296166E+09	1,296183E+09	9,683165E+08	5,418125E+08
2751	1,944894E+08	1,944016E+07	0,000000E+00	0,000000E+00	1,943692E+07	1,944750E+08	5,417963E+08	9,682940E+08	1,296153E+09	1,296156E+09	9,683084E+08	5,418202E+08
2752	1,944979E+08	1,944477E+07	0,000000E+00	0,000000E+00	1,944722E+07	1,945064E+08	5,418203E+08	9,682968E+08	1,296132E+09	1,296109E+09	9,682453E+08	5,417726E+08
2753	1,944732E+08	1,943902E+07	0,000000E+00	0,000000E+00	1,944113E+07	1,944795E+08	5,417700E+08	9,682240E+08	1,296073E+09	1,296096E+09	9,682750E+08	5,418148E+08
2754	1,945094E+08	1,945170E+07	0,000000E+00	0,000000E+00	1,944953E+07	1,945013E+08	5,418054E+08	9,682463E+08	1,296047E+09	1,296032E+09	9,682158E+08	5,417851E+08
2755	1,944979E+08	1,945141E+07	0,000000E+00	0,000000E+00	1,945659E+07	1,945162E+08	5,418035E+08	9,682253E+08	1,296007E+09	1,295977E+09	9,681587E+08	5,417534E+08
2756	1,944913E+08	1,945220E+07	0,000000E+00	0,000000E+00	1,945330E+07	1,944902E+08	5,417485E+08	9,681491E+08	1,295951E+09	1,295962E+09	9,681855E+08	5,417944E+08
2757	1,945283E+08	1,946533E+07	0,000000E+00	0,000000E+00	1,946442E+07	1,945238E+08	5,417852E+08	9,681628E+08	1,295925E+09	1,295904E+09	9,681171E+08	5,417462E+08
2758	1,945013E+08	1,946069E+07	0,000000E+00	0,000000E+00	1,946585E+07	1,945186E+08	5,417530E+08	9,681000E+08	1,295866E+09	1,295882E+09	9,681202E+08	5,417594E+08
2759	1,945166E+08	1,946561E+07	0,000000E+00	0,000000E+00	1,946334E+07	1,945050E+08	5,417402E+08	9,680837E+08	1,295836E+09	1,295851E+09	9,681234E+08	5,417815E+08
2760	1,945346E+08	1,947113E+07	0,000000E+00	0,000000E+00	1,947234E+07	1,945399E+08	5,417840E+08	9,681230E+08	1,295846E+09	1,295817E+09	9,680591E+08	5,417272E+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												
2761	1,945019E+08	1,946316E+07	0,000000E+00	0,000000E+00	1,946506E+07	1,945093E+08	5,417377E+08	9,680809E+08	1,295847E+09	1,295863E+09	9,681195E+08	5,417718E+08
2762	1,945289E+08	1,946852E+07	0,000000E+00	0,000000E+00	1,946349E+07	1,945113E+08	5,417626E+08	9,681274E+08	1,295885E+09	1,295882E+09	9,681238E+08	5,417674E+08
2763	1,945201E+08	1,946613E+07	0,000000E+00	0,000000E+00	1,946784E+07	1,945302E+08	5,417855E+08	9,681599E+08	1,295920E+09	1,295899E+09	9,681082E+08	5,417362E+08
2764	1,944942E+08	1,945676E+07	0,000000E+00	0,000000E+00	1,945624E+07	1,944943E+08	5,417410E+08	9,681274E+08	1,295936E+09	1,295967E+09	9,681957E+08	5,417961E+08
2765	1,945224E+08	1,946150E+07	0,000000E+00	0,000000E+00	1,945846E+07	1,945158E+08	5,417963E+08	9,682012E+08	1,295982E+09	1,295973E+09	9,681765E+08	5,417694E+08
2766	1,944950E+08	1,945289E+07	0,000000E+00	0,000000E+00	1,945690E+07	1,945113E+08	5,417898E+08	9,682106E+08	1,296017E+09	1,296015E+09	9,681971E+08	5,417714E+08
2767	1,944921E+08	1,944826E+07	0,000000E+00	0,000000E+00	1,944639E+07	1,944828E+08	5,417644E+08	9,682041E+08	1,296034E+09	1,296048E+09	9,682452E+08	5,418112E+08
2768	1,945159E+08	1,945514E+07	0,000000E+00	0,000000E+00	1,945402E+07	1,945128E+08	5,418078E+08	9,682469E+08	1,296053E+09	1,296030E+09	9,681955E+08	5,417612E+08
2769	1,944823E+08	1,944633E+07	0,000000E+00	0,000000E+00	1,944858E+07	1,944912E+08	5,417680E+08	9,681993E+08	1,296032E+09	1,296049E+09	9,682331E+08	5,417933E+08
2770	1,945034E+08	1,945170E+07	0,000000E+00	0,000000E+00	1,944863E+07	1,944892E+08	5,417714E+08	9,681965E+08	1,296007E+09	1,296015E+09	9,682201E+08	5,417992E+08
2771	1,945132E+08	1,945685E+07	0,000000E+00	0,000000E+00	1,945931E+07	1,945230E+08	5,418076E+08	9,682173E+08	1,295987E+09	1,295953E+09	9,681395E+08	5,417412E+08
2772	1,944842E+08	1,945055E+07	0,000000E+00	0,000000E+00	1,945424E+07	1,944971E+08	5,417537E+08	9,681451E+08	1,295940E+09	1,295950E+09	9,681740E+08	5,417845E+08
2773	1,945206E+08	1,946299E+07	0,000000E+00	0,000000E+00	1,946140E+07	1,945135E+08	5,417788E+08	9,681564E+08	1,295912E+09	1,295893E+09	9,681209E+08	5,417587E+08
2774	1,945121E+08	1,946371E+07	0,000000E+00	0,000000E+00	1,946897E+07	1,945289E+08	5,417723E+08	9,681264E+08	1,295877E+09	1,295859E+09	9,680791E+08	5,417313E+08
2775	1,945059E+08	1,946481E+07	0,000000E+00	0,000000E+00	1,946535E+07	1,945035E+08	5,417183E+08	9,680452E+08	1,295804E+09	1,295830E+09	9,681072E+08	5,417778E+08
2776	1,945444E+08	1,947759E+07	0,000000E+00	0,000000E+00	1,947603E+07	1,945375E+08	5,417581E+08	9,680565E+08	1,295761E+09	1,295748E+09	9,680244E+08	5,417260E+08
2777	1,945177E+08	1,947326E+07	0,000000E+00	0,000000E+00	1,947758E+07	1,945329E+08	5,417334E+08	9,680143E+08	1,295723E+09	1,295730E+09	9,680253E+08	5,417386E+08
2778	1,945318E+08	1,947724E+07	0,000000E+00	0,000000E+00	1,947455E+07	1,945179E+08	5,417182E+08	9,680004E+08	1,295707E+09	1,295718E+09	9,680340E+08	5,417585E+08
2779	1,945492E+08	1,948269E+07	0,000000E+00	0,000000E+00	1,948276E+07	1,945518E+08	5,417686E+08	9,680531E+08	1,295729E+09	1,295692E+09	9,679698E+08	5,416979E+08
2780	1,945112E+08	1,947361E+07	0,000000E+00	0,000000E+00	1,947614E+07	1,945228E+08	5,417197E+08	9,680088E+08	1,295736E+09	1,295752E+09	9,680448E+08	5,417476E+08
2781	1,945366E+08	1,947761E+07	0,000000E+00	0,000000E+00	1,947341E+07	1,945223E+08	5,417393E+08	9,680470E+08	1,295767E+09	1,295769E+09	9,680530E+08	5,417487E+08
2782	1,945301E+08	1,947537E+07	0,000000E+00	0,000000E+00	1,947819E+07	1,945437E+08	5,417665E+08	9,680825E+08	1,295811E+09	1,295800E+09	9,680443E+08	5,417191E+08
2783	1,945040E+08	1,946547E+07	0,000000E+00	0,000000E+00	1,946556E+07	1,945068E+08	5,417269E+08	9,680585E+08	1,295824E+09	1,295855E+09	9,681270E+08	5,417809E+08
2784	1,945341E+08	1,947038E+07	0,000000E+00	0,000000E+00	1,946698E+07	1,945243E+08	5,417756E+08	9,681269E+08	1,295864E+09	1,295850E+09	9,680958E+08	5,417494E+08
2785	1,945084E+08	1,946311E+07	0,000000E+00	0,000000E+00	1,946581E+07	1,945189E+08	5,417661E+08	9,681359E+08	1,295904E+09	1,295895E+09	9,681182E+08	5,417520E+08
2786	1,945056E+08	1,945897E+07	0,000000E+00	0,000000E+00	1,945630E+07	1,944917E+08	5,417356E+08	9,681144E+08	1,295908E+09	1,295930E+09	9,681691E+08	5,417914E+08
2787	1,945302E+08	1,946674E+07	0,000000E+00	0,000000E+00	1,946482E+07	1,945259E+08	5,417894E+08	9,681625E+08	1,295916E+09	1,295892E+09	9,681051E+08	5,417338E+08
2788	1,944924E+08	1,945732E+07	0,000000E+00	0,000000E+00	1,946116E+07	1,945098E+08	5,417540E+08	9,681174E+08	1,295895E+09	1,295909E+09	9,681416E+08	5,417656E+08
2789	1,945125E+08	1,946190E+07	0,000000E+00	0,000000E+00	1,946043E+07	1,945048E+08	5,417553E+08	9,681181E+08	1,295875E+09	1,295876E+09	9,681275E+08	5,417740E+08
2790	1,945255E+08	1,946786E+07	0,000000E+00	0,000000E+00	1,947125E+07	1,945375E+08	5,417870E+08	9,681383E+08	1,295874E+09	1,295839E+09	9,680575E+08	5,417176E+08
2791	1,944975E+08	1,946219E+07	0,000000E+00	0,000000E+00	1,946553E+07	1,945090E+08	5,417287E+08	9,680580E+08	1,295815E+09	1,295831E+09	9,680980E+08	5,417671E+08
2792	1,945370E+08	1,947535E+07	0,000000E+00	0,000000E+00	1,947236E+07	1,945224E+08	5,417448E+08	9,680516E+08	1,295762E+09	1,295753E+09	9,680369E+08	5,417410E+08
2793	1,945305E+08	1,947718E+07	0,000000E+00	0,000000E+00	1,948090E+07	1,945404E+08	5,417390E+08	9,680178E+08	1,295717E+09	1,295706E+09	9,679901E+08	5,417143E+08
2794	1,945235E+08	1,947792E+07	0,000000E+00	0,000000E+00	1,947805E+07	1,945186E+08	5,416909E+08	9,679363E+08	1,295638E+09	1,295673E+09	9,680121E+08	5,417567E+08
2795	1,945610E+08	1,949027E+07	0,000000E+00	0,000000E+00	1,948827E+07	1,945540E+08	5,417449E+08	9,679719E+08	1,295606E+09	1,295582E+09	9,679136E+08	5,416930E+08
2796	1,945285E+08	1,948469E+07	0,000000E+00	0,000000E+00	1,949023E+07	1,945499E+08	5,417185E+08	9,679387E+08	1,295594E+09	1,295586E+09	9,679233E+08	5,417049E+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												
2797	1,945403E+08	1,948742E+07	0,000000E+00	0,000000E+00	1,948543E+07	1,945300E+08	5,416972E+08	9,679243E+08	1,295590E+09	1,295596E+09	9,679466E+08	5,417304E+08
2798	1,945593E+08	1,949315E+07	0,000000E+00	0,000000E+00	1,949363E+07	1,945638E+08	5,417442E+08	9,679745E+08	1,295626E+09	1,295597E+09	9,679036E+08	5,416772E+08
2799	1,945214E+08	1,948362E+07	0,000000E+00	0,000000E+00	1,948619E+07	1,945352E+08	5,416996E+08	9,679315E+08	1,295625E+09	1,295651E+09	9,679847E+08	5,417343E+08
2800	1,945480E+08	1,948688E+07	0,000000E+00	0,000000E+00	1,948250E+07	1,945324E+08	5,417194E+08	9,679675E+08	1,295642E+09	1,295649E+09	9,679829E+08	5,417347E+08
2801	1,945433E+08	1,948511E+07	0,000000E+00	0,000000E+00	1,948714E+07	1,945530E+08	5,417486E+08	9,680149E+08	1,295698E+09	1,295682E+09	9,679731E+08	5,417055E+08
2802	1,945173E+08	1,947506E+07	0,000000E+00	0,000000E+00	1,947453E+07	1,945158E+08	5,417054E+08	9,679845E+08	1,295714E+09	1,295746E+09	9,680553E+08	5,417638E+08
2803	1,945480E+08	1,948070E+07	0,000000E+00	0,000000E+00	1,947592E+07	1,945329E+08	5,417574E+08	9,680541E+08	1,295748E+09	1,295731E+09	9,680146E+08	5,417240E+08
2804	1,945184E+08	1,947330E+07	0,000000E+00	0,000000E+00	1,947646E+07	1,945313E+08	5,417451E+08	9,680577E+08	1,295785E+09	1,295777E+09	9,680392E+08	5,417270E+08
2805	1,945144E+08	1,946868E+07	0,000000E+00	0,000000E+00	1,946698E+07	1,945046E+08	5,417126E+08	9,680281E+08	1,295777E+09	1,295802E+09	9,680866E+08	5,417681E+08
2806	1,945407E+08	1,947703E+07	0,000000E+00	0,000000E+00	1,947644E+07	1,945417E+08	5,417710E+08	9,680805E+08	1,295792E+09	1,295773E+09	9,680258E+08	5,417118E+08
2807	1,945037E+08	1,946768E+07	0,000000E+00	0,000000E+00	1,947240E+07	1,945252E+08	5,417403E+08	9,680437E+08	1,295770E+09	1,295779E+09	9,680585E+08	5,417452E+08
2808	1,945255E+08	1,947271E+07	0,000000E+00	0,000000E+00	1,947098E+07	1,945146E+08	5,417297E+08	9,680307E+08	1,295739E+09	1,295736E+09	9,680362E+08	5,417512E+08
2809	1,945413E+08	1,948033E+07	0,000000E+00	0,000000E+00	1,948239E+07	1,945472E+08	5,417570E+08	9,680443E+08	1,295735E+09	1,295702E+09	9,679719E+08	5,416985E+08
2810	1,945148E+08	1,947559E+07	0,000000E+00	0,000000E+00	1,947802E+07	1,945212E+08	5,416951E+08	9,679475E+08	1,295659E+09	1,295688E+09	9,680102E+08	5,417470E+08
2811	1,945548E+08	1,948909E+07	0,000000E+00	0,000000E+00	1,948522E+07	1,945378E+08	5,417205E+08	9,679462E+08	1,295594E+09	1,295588E+09	9,679330E+08	5,417125E+08
2812	1,945437E+08	1,948991E+07	0,000000E+00	0,000000E+00	1,949497E+07	1,945606E+08	5,417226E+08	9,679256E+08	1,295560E+09	1,295543E+09	9,678846E+08	5,416838E+08
2813	1,945345E+08	1,948916E+07	0,000000E+00	0,000000E+00	1,949070E+07	1,945352E+08	5,416740E+08	9,678545E+08	1,295498E+09	1,295520E+09	9,679085E+08	5,417264E+08
2814	1,945721E+08	1,950125E+07	0,000000E+00	0,000000E+00	1,950018E+07	1,945687E+08	5,417256E+08	9,678984E+08	1,295498E+09	1,295468E+09	9,678286E+08	5,416661E+08
2815	1,945393E+08	1,949541E+07	0,000000E+00	0,000000E+00	1,950088E+07	1,945622E+08	5,416999E+08	9,678666E+08	1,295485E+09	1,295480E+09	9,678530E+08	5,416853E+08
2816	1,945520E+08	1,949775E+07	0,000000E+00	0,000000E+00	1,949492E+07	1,945379E+08	5,416692E+08	9,678390E+08	1,295469E+09	1,295482E+09	9,678774E+08	5,417142E+08
2817	1,945729E+08	1,950408E+07	0,000000E+00	0,000000E+00	1,950344E+07	1,945737E+08	5,417182E+08	9,678883E+08	1,295500E+09	1,295481E+09	9,678390E+08	5,416671E+08
2818	1,945362E+08	1,949433E+07	0,000000E+00	0,000000E+00	1,949624E+07	1,945467E+08	5,416776E+08	9,678458E+08	1,295494E+09	1,295529E+09	9,679141E+08	5,417212E+08
2819	1,945627E+08	1,949712E+07	0,000000E+00	0,000000E+00	1,949188E+07	1,945432E+08	5,417050E+08	9,678969E+08	1,295517E+09	1,295515E+09	9,678953E+08	5,417107E+08
2820	1,945537E+08	1,949480E+07	0,000000E+00	0,000000E+00	1,949720E+07	1,945643E+08	5,417304E+08	9,679457E+08	1,295587E+09	1,295561E+09	9,678882E+08	5,416785E+08
2821	1,945257E+08	1,948403E+07	0,000000E+00	0,000000E+00	1,948398E+07	1,945254E+08	5,416827E+08	9,679090E+08	1,295600E+09	1,295631E+09	9,679760E+08	5,417386E+08
2822	1,945572E+08	1,949039E+07	0,000000E+00	0,000000E+00	1,948635E+07	1,945448E+08	5,417332E+08	9,679757E+08	1,295641E+09	1,295631E+09	9,679460E+08	5,417027E+08
2823	1,945278E+08	1,948298E+07	0,000000E+00	0,000000E+00	1,948697E+07	1,945463E+08	5,417294E+08	9,679815E+08	1,295665E+09	1,295662E+09	9,679688E+08	5,417094E+08
2824	1,945252E+08	1,947841E+07	0,000000E+00	0,000000E+00	1,947716E+07	1,945174E+08	5,416954E+08	9,679499E+08	1,295647E+09	1,295670E+09	9,680050E+08	5,417489E+08
2825	1,945537E+08	1,948770E+07	0,000000E+00	0,000000E+00	1,948684E+07	1,945536E+08	5,417522E+08	9,680060E+08	1,295668E+09	1,295641E+09	9,679452E+08	5,416955E+08
2826	1,945191E+08	1,947926E+07	0,000000E+00	0,000000E+00	1,948324E+07	1,945362E+08	5,417154E+08	9,679583E+08	1,295643E+09	1,295654E+09	9,679773E+08	5,417264E+08
2827	1,945422E+08	1,948522E+07	0,000000E+00	0,000000E+00	1,948209E+07	1,945253E+08	5,417055E+08	9,679402E+08	1,295597E+09	1,295595E+09	9,679444E+08	5,417259E+08
2828	1,945551E+08	1,949286E+07	0,000000E+00	0,000000E+00	1,949504E+07	1,945608E+08	5,417282E+08	9,679448E+08	1,295586E+09	1,295556E+09	9,678787E+08	5,416723E+08
2829	1,945275E+08	1,948761E+07	0,000000E+00	0,000000E+00	1,949107E+07	1,945373E+08	5,416687E+08	9,678439E+08	1,295499E+09	1,295531E+09	9,679109E+08	5,417207E+08
2830	1,945680E+08	1,950111E+07	0,000000E+00	0,000000E+00	1,949858E+07	1,945557E+08	5,416989E+08	9,678534E+08	1,295449E+09	1,295442E+09	9,678357E+08	5,416853E+08
2831	1,945557E+08	1,950131E+07	0,000000E+00	0,000000E+00	1,950732E+07	1,945777E+08	5,417078E+08	9,678478E+08	1,295426E+09	1,295399E+09	9,677882E+08	5,416575E+08
2832	1,945469E+08	1,950039E+07	0,000000E+00	0,000000E+00	1,950152E+07	1,945457E+08	5,416492E+08	9,677705E+08	1,295367E+09	1,295382E+09	9,678146E+08	5,416998E+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	1,945854E+08	1,951311E+07	0,000000E+00	0,000000E+00	1,951072E+07	1,945780E+08	5,416976E+08	9,678119E+08	1,295371E+09	1,295345E+09	9,677536E+08	5,416493E+08
2834	1,945549E+08	1,950786E+07	0,000000E+00	0,000000E+00	1,951192E+07	1,945729E+08	5,416705E+08	9,677726E+08	1,295354E+09	1,295362E+09	9,677828E+08	5,416706E+08
2835	1,945677E+08	1,950968E+07	0,000000E+00	0,000000E+00	1,950576E+07	1,945510E+08	5,416495E+08	9,677509E+08	1,295329E+09	1,295348E+09	9,677953E+08	5,416937E+08
2836	1,945847E+08	1,951475E+07	0,000000E+00	0,000000E+00	1,951479E+07	1,945889E+08	5,417027E+08	9,678124E+08	1,295374E+09	1,295351E+09	9,677564E+08	5,416450E+08
2837	1,945464E+08	1,950353E+07	0,000000E+00	0,000000E+00	1,950647E+07	1,945595E+08	5,416612E+08	9,677767E+08	1,295379E+09	1,295406E+09	9,678309E+08	5,416980E+08
2838	1,945724E+08	1,950611E+07	0,000000E+00	0,000000E+00	1,950166E+07	1,945541E+08	5,416838E+08	9,678304E+08	1,295424E+09	1,295418E+09	9,678251E+08	5,416892E+08
2839	1,945629E+08	1,950371E+07	0,000000E+00	0,000000E+00	1,950632E+07	1,945750E+08	5,417129E+08	9,678798E+08	1,295486E+09	1,295461E+09	9,678239E+08	5,416610E+08
2840	1,945357E+08	1,949298E+07	0,000000E+00	0,000000E+00	1,949271E+07	1,945334E+08	5,416570E+08	9,678285E+08	1,295482E+09	1,295516E+09	9,679042E+08	5,417200E+08
2841	1,945681E+08	1,950022E+07	0,000000E+00	0,000000E+00	1,949609E+07	1,945566E+08	5,417124E+08	9,678947E+08	1,295514E+09	1,295509E+09	9,678768E+08	5,416896E+08
2842	1,945416E+08	1,949363E+07	0,000000E+00	0,000000E+00	1,949744E+07	1,945602E+08	5,417126E+08	9,679024E+08	1,295535E+09	1,295533E+09	9,678890E+08	5,416916E+08
2843	1,945392E+08	1,948926E+07	0,000000E+00	0,000000E+00	1,948756E+07	1,945300E+08	5,416806E+08	9,678759E+08	1,295517E+09	1,295527E+09	9,679085E+08	5,417218E+08
2844	1,945655E+08	1,949873E+07	0,000000E+00	0,000000E+00	1,949813E+07	1,945657E+08	5,417298E+08	9,679270E+08	1,295545E+09	1,295510E+09	9,678524E+08	5,416675E+08
2845	1,945311E+08	1,949046E+07	0,000000E+00	0,000000E+00	1,949480E+07	1,945477E+08	5,416863E+08	9,678650E+08	1,295506E+09	1,295519E+09	9,678873E+08	5,417007E+08
2846	1,945551E+08	1,949732E+07	0,000000E+00	0,000000E+00	1,949483E+07	1,945391E+08	5,416737E+08	9,678420E+08	1,295462E+09	1,295466E+09	9,678603E+08	5,417029E+08
2847	1,945679E+08	1,950466E+07	0,000000E+00	0,000000E+00	1,950770E+07	1,945783E+08	5,417082E+08	9,678516E+08	1,295437E+09	1,295411E+09	9,677896E+08	5,416507E+08
2848	1,945410E+08	1,949923E+07	0,000000E+00	0,000000E+00	1,950312E+07	1,945520E+08	5,416474E+08	9,677529E+08	1,295347E+09	1,295374E+09	9,678111E+08	5,416951E+08
2849	1,945819E+08	1,951306E+07	0,000000E+00	0,000000E+00	1,951030E+07	1,945697E+08	5,416778E+08	9,677693E+08	1,295311E+09	1,295298E+09	9,677453E+08	5,416650E+08
2850	1,945722E+08	1,951408E+07	0,000000E+00	0,000000E+00	1,951877E+07	1,945899E+08	5,416826E+08	9,677595E+08	1,295294E+09	1,295269E+09	9,677035E+08	5,416369E+08
2851	1,945634E+08	1,951323E+07	0,000000E+00	0,000000E+00	1,951266E+07	1,945570E+08	5,416254E+08	9,676818E+08	1,295231E+09	1,295248E+09	9,677272E+08	5,416757E+08
2852	1,945986E+08	1,952520E+07	0,000000E+00	0,000000E+00	1,952263E+07	1,945911E+08	5,416709E+08	9,677203E+08	1,295237E+09	1,295215E+09	9,676715E+08	5,416279E+08
2853	1,945675E+08	1,951892E+07	0,000000E+00	0,000000E+00	1,952370E+07	1,945876E+08	5,416476E+08	9,676817E+08	1,295215E+09	1,295229E+09	9,677007E+08	5,416504E+08
2854	1,945793E+08	1,951985E+07	0,000000E+00	0,000000E+00	1,951724E+07	1,945660E+08	5,416306E+08	9,676760E+08	1,295212E+09	1,295227E+09	9,677157E+08	5,416721E+08
2855	1,945943E+08	1,952376E+07	0,000000E+00	0,000000E+00	1,952470E+07	1,946016E+08	5,416885E+08	9,677476E+08	1,295264E+09	1,295232E+09	9,676771E+08	5,416236E+08
2856	1,945563E+08	1,951235E+07	0,000000E+00	0,000000E+00	1,951511E+07	1,945670E+08	5,416380E+08	9,677039E+08	1,295269E+09	1,295290E+09	9,677507E+08	5,416746E+08
2857	1,945829E+08	1,951563E+07	0,000000E+00	0,000000E+00	1,951050E+07	1,945626E+08	5,416586E+08	9,677514E+08	1,295307E+09	1,295309E+09	9,677595E+08	5,416743E+08
2858	1,945762E+08	1,951428E+07	0,000000E+00	0,000000E+00	1,951578E+07	1,945854E+08	5,416885E+08	9,677964E+08	1,295365E+09	1,295349E+09	9,677567E+08	5,416463E+08
2859	1,945494E+08	1,950355E+07	0,000000E+00	0,000000E+00	1,950261E+07	1,945473E+08	5,416435E+08	9,677527E+08	1,295353E+09	1,295386E+09	9,678215E+08	5,416978E+08
2860	1,945783E+08	1,951014E+07	0,000000E+00	0,000000E+00	1,950680E+07	1,945709E+08	5,416987E+08	9,678265E+08	1,295397E+09	1,295382E+09	9,677918E+08	5,416659E+08
2861	1,945523E+08	1,950322E+07	0,000000E+00	0,000000E+00	1,950782E+07	1,945727E+08	5,416950E+08	9,678329E+08	1,295423E+09	1,295411E+09	9,678045E+08	5,416673E+08
2862	1,945502E+08	1,949947E+07	0,000000E+00	0,000000E+00	1,949845E+07	1,945414E+08	5,416556E+08	9,678009E+08	1,295413E+09	1,295420E+09	9,678321E+08	5,416991E+08
2863	1,945768E+08	1,950921E+07	0,000000E+00	0,000000E+00	1,950878E+07	1,945769E+08	5,417050E+08	9,678434E+08	1,295422E+09	1,295391E+09	9,677771E+08	5,416488E+08
2864	1,945444E+08	1,950166E+07	0,000000E+00	0,000000E+00	1,950586E+07	1,945583E+08	5,416543E+08	9,677636E+08	1,295359E+09	1,295377E+09	9,677997E+08	5,416800E+08
2865	1,945700E+08	1,950947E+07	0,000000E+00	0,000000E+00	1,950697E+07	1,945544E+08	5,416475E+08	9,677380E+08	1,295300E+09	1,295314E+09	9,677741E+08	5,416868E+08
2866	1,945854E+08	1,951757E+07	0,000000E+00	0,000000E+00	1,952004E+07	1,945940E+08	5,416867E+08	9,677562E+08	1,295280E+09	1,295253E+09	9,676916E+08	5,416287E+08
2867	1,945579E+08	1,951225E+07	0,000000E+00	0,000000E+00	1,951536E+07	1,945672E+08	5,416288E+08	9,676651E+08	1,295197E+09	1,295211E+09	9,676993E+08	5,416624E+08
2868	1,945946E+08	1,952555E+07	0,000000E+00	0,000000E+00	1,952281E+07	1,945838E+08	5,416535E+08	9,676813E+08	1,295177E+09	1,295156E+09	9,676438E+08	5,416332E+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°
2869	1,945849E+08	1,952629E+07	0,000000E+00	0,000000E+00	1,953133E+07	1,946038E+08	5,416557E+08	9,676659E+08	1,295157E+09	1,295135E+09	9,676135E+08	5,416103E+08
2870	1,945758E+08	1,952529E+07	0,000000E+00	0,000000E+00	1,952562E+07	1,945725E+08	5,415989E+08	9,675926E+08	1,295106E+09	1,295125E+09	9,676475E+08	5,416539E+08
2871	1,946099E+08	1,953592E+07	0,000000E+00	0,000000E+00	1,953450E+07	1,946082E+08	5,416560E+08	9,676415E+08	1,295108E+09	1,295088E+09	9,675939E+08	5,416105E+08
2872	1,945798E+08	1,952891E+07	0,000000E+00	0,000000E+00	1,953414E+07	1,945994E+08	5,416278E+08	9,676042E+08	1,295088E+09	1,295096E+09	9,676160E+08	5,416295E+08
2873	1,945912E+08	1,952951E+07	0,000000E+00	0,000000E+00	1,952680E+07	1,945768E+08	5,416099E+08	9,676012E+08	1,295096E+09	1,295111E+09	9,676451E+08	5,416573E+08
2874	1,946085E+08	1,953418E+07	0,000000E+00	0,000000E+00	1,953343E+07	1,946096E+08	5,416647E+08	9,676707E+08	1,295153E+09	1,295126E+09	9,676092E+08	5,416072E+08
2875	1,945701E+08	1,952276E+07	0,000000E+00	0,000000E+00	1,952386E+07	1,945756E+08	5,416160E+08	9,676255E+08	1,295149E+09	1,295172E+09	9,676730E+08	5,416519E+08
2876	1,945931E+08	1,952559E+07	0,000000E+00	0,000000E+00	1,952038E+07	1,945743E+08	5,416369E+08	9,676728E+08	1,295192E+09	1,295194E+09	9,676827E+08	5,416527E+08
2877	1,945869E+08	1,952390E+07	0,000000E+00	0,000000E+00	1,952614E+07	1,945997E+08	5,416720E+08	9,677190E+08	1,295243E+09	1,295227E+09	9,676780E+08	5,416252E+08
2878	1,945596E+08	1,951295E+07	0,000000E+00	0,000000E+00	1,951331E+07	1,945614E+08	5,416288E+08	9,676903E+08	1,295251E+09	1,295271E+09	9,677424E+08	5,416746E+08
2879	1,945869E+08	1,951893E+07	0,000000E+00	0,000000E+00	1,951661E+07	1,945831E+08	5,416845E+08	9,677642E+08	1,295293E+09	1,295269E+09	9,677136E+08	5,416445E+08
2880	1,945631E+08	1,951273E+07	0,000000E+00	0,000000E+00	1,951706E+07	1,945798E+08	5,416671E+08	9,677507E+08	1,295305E+09	1,295293E+09	9,677239E+08	5,416445E+08
2881	1,945625E+08	1,951032E+07	0,000000E+00	0,000000E+00	1,950902E+07	1,945519E+08	5,416251E+08	9,677038E+08	1,295276E+09	1,295298E+09	9,677625E+08	5,416852E+08
2882	1,945935E+08	1,952172E+07	0,000000E+00	0,000000E+00	1,952006E+07	1,945891E+08	5,416753E+08	9,677399E+08	1,295272E+09	1,295254E+09	9,676966E+08	5,416328E+08
2883	1,945617E+08	1,951444E+07	0,000000E+00	0,000000E+00	1,951814E+07	1,945753E+08	5,416356E+08	9,676674E+08	1,295198E+09	1,295214E+09	9,676958E+08	5,416531E+08
2884	1,945839E+08	1,952184E+07	0,000000E+00	0,000000E+00	1,951991E+07	1,945719E+08	5,416302E+08	9,676526E+08	1,295155E+09	1,295157E+09	9,676660E+08	5,416564E+08
2885	1,945989E+08	1,952945E+07	0,000000E+00	0,000000E+00	1,953258E+07	1,946098E+08	5,416669E+08	9,676715E+08	1,295144E+09	1,295107E+09	9,675905E+08	5,415991E+08
2886	1,945708E+08	1,952440E+07	0,000000E+00	0,000000E+00	1,952806E+07	1,945813E+08	5,416053E+08	9,675857E+08	1,295080E+09	1,295087E+09	9,676108E+08	5,416346E+08
2887	1,946052E+08	1,953675E+07	0,000000E+00	0,000000E+00	1,953467E+07	1,945973E+08	5,416302E+08	9,675963E+08	1,295050E+09	1,295032E+09	9,675638E+08	5,416120E+08
2888	1,945976E+08	1,953774E+07	0,000000E+00	0,000000E+00	1,954281E+07	1,946155E+08	5,416261E+08	9,675679E+08	1,295017E+09	1,295001E+09	9,675307E+08	5,415906E+08
2889	1,945898E+08	1,953680E+07	0,000000E+00	0,000000E+00	1,953741E+07	1,945878E+08	5,415760E+08	9,674962E+08	1,294957E+09	1,294991E+09	9,675726E+08	5,416406E+08
2890	1,946262E+08	1,954753E+07	0,000000E+00	0,000000E+00	1,954493E+07	1,946195E+08	5,416337E+08	9,675563E+08	1,294972E+09	1,294952E+09	9,675108E+08	5,415933E+08
2891	1,945958E+08	1,954026E+07	0,000000E+00	0,000000E+00	1,954404E+07	1,946100E+08	5,416071E+08	9,675244E+08	1,294959E+09	1,294958E+09	9,675214E+08	5,416028E+08
2892	1,946032E+08	1,954020E+07	0,000000E+00	0,000000E+00	1,953664E+07	1,945864E+08	5,415849E+08	9,675200E+08	1,294977E+09	1,294990E+09	9,675589E+08	5,416305E+08
2893	1,946195E+08	1,954445E+07	0,000000E+00	0,000000E+00	1,954349E+07	1,946202E+08	5,416402E+08	9,675870E+08	1,295032E+09	1,295011E+09	9,675335E+08	5,415846E+08
2894	1,945801E+08	1,953280E+07	0,000000E+00	0,000000E+00	1,953470E+07	1,945897E+08	5,415977E+08	9,675545E+08	1,295044E+09	1,295064E+09	9,676008E+08	5,416292E+08
2895	1,946000E+08	1,953412E+07	0,000000E+00	0,000000E+00	1,953068E+07	1,945905E+08	5,416293E+08	9,676119E+08	1,295085E+09	1,295084E+09	9,676112E+08	5,416329E+08
2896	1,945956E+08	1,953239E+07	0,000000E+00	0,000000E+00	1,953543E+07	1,946106E+08	5,416567E+08	9,676554E+08	1,295138E+09	1,295114E+09	9,676013E+08	5,416044E+08
2897	1,945699E+08	1,952200E+07	0,000000E+00	0,000000E+00	1,952270E+07	1,945725E+08	5,416097E+08	9,676184E+08	1,295143E+09	1,295168E+09	9,676796E+08	5,416612E+08
2898	1,946013E+08	1,952952E+07	0,000000E+00	0,000000E+00	1,952554E+07	1,945899E+08	5,416577E+08	9,676823E+08	1,295178E+09	1,295161E+09	9,676477E+08	5,416311E+08
2899	1,945792E+08	1,952420E+07	0,000000E+00	0,000000E+00	1,952703E+07	1,945893E+08	5,416394E+08	9,676565E+08	1,295165E+09	1,295159E+09	9,676395E+08	5,416233E+08
2900	1,945763E+08	1,952208E+07	0,000000E+00	0,000000E+00	1,952083E+07	1,945663E+08	5,415993E+08	9,676048E+08	1,295128E+09	1,295154E+09	9,676696E+08	5,416613E+08
2901	1,946075E+08	1,953338E+07	0,000000E+00	0,000000E+00	1,953266E+07	1,946064E+08	5,416560E+08	9,676446E+08	1,295117E+09	1,295098E+09	9,675970E+08	5,416060E+08
2902	1,945745E+08	1,952610E+07	0,000000E+00	0,000000E+00	1,953129E+07	1,945928E+08	5,416195E+08	9,675914E+08	1,295067E+09	1,295064E+09	9,675904E+08	5,416202E+08
2903	1,945936E+08	1,953277E+07	0,000000E+00	0,000000E+00	1,953222E+07	1,945880E+08	5,416146E+08	9,675781E+08	1,295031E+09	1,295019E+09	9,675666E+08	5,416254E+08
2904	1,946102E+08	1,954092E+07	0,000000E+00	0,000000E+00	1,954396E+07	1,946202E+08	5,416376E+08	9,675787E+08	1,295010E+09	1,294972E+09	9,674976E+08	5,415715E+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	1,945840E+08	1,953679E+07	0,000000E+00	0,000000E+00	1,954032E+07	1,945946E+08	5,415755E+08	9,674833E+08	1,294934E+09	1,294959E+09	9,675383E+08	5,416196E+08
2906	1,946225E+08	1,954993E+07	0,000000E+00	0,000000E+00	1,954639E+07	1,946098E+08	5,416022E+08	9,674953E+08	1,294902E+09	1,294898E+09	9,674872E+08	5,415986E+08
2907	1,946158E+08	1,955061E+07	0,000000E+00	0,000000E+00	1,955455E+07	1,946300E+08	5,416044E+08	9,674725E+08	1,294863E+09	1,294849E+09	9,674373E+08	5,415685E+08
2908	1,946046E+08	1,954875E+07	0,000000E+00	0,000000E+00	1,954905E+07	1,946020E+08	5,415558E+08	9,674125E+08	1,294824E+09	1,294850E+09	9,674776E+08	5,416157E+08
2909	1,946398E+08	1,955845E+07	0,000000E+00	0,000000E+00	1,955567E+07	1,946311E+08	5,416109E+08	9,674733E+08	1,294847E+09	1,294825E+09	9,674241E+08	5,415684E+08
2910	1,946074E+08	1,955090E+07	0,000000E+00	0,000000E+00	1,955474E+07	1,946211E+08	5,415855E+08	9,674541E+08	1,294854E+09	1,294846E+09	9,674424E+08	5,415764E+08
2911	1,946108E+08	1,954932E+07	0,000000E+00	0,000000E+00	1,954667E+07	1,945991E+08	5,415681E+08	9,674508E+08	1,294870E+09	1,294882E+09	9,674875E+08	5,416091E+08
2912	1,946280E+08	1,955346E+07	0,000000E+00	0,000000E+00	1,955297E+07	1,946311E+08	5,416195E+08	9,675086E+08	1,294914E+09	1,294898E+09	9,674624E+08	5,415659E+08
2913	1,945901E+08	1,954186E+07	0,000000E+00	0,000000E+00	1,954467E+07	1,946044E+08	5,415851E+08	9,674823E+08	1,294924E+09	1,294955E+09	9,675400E+08	5,416169E+08
2914	1,946126E+08	1,954363E+07	0,000000E+00	0,000000E+00	1,953944E+07	1,946000E+08	5,416133E+08	9,675465E+08	1,294978E+09	1,294973E+09	9,675422E+08	5,416182E+08
2915	1,946093E+08	1,954234E+07	0,000000E+00	0,000000E+00	1,954416E+07	1,946188E+08	5,416353E+08	9,675813E+08	1,295024E+09	1,294995E+09	9,675193E+08	5,415811E+08
2916	1,945818E+08	1,953244E+07	0,000000E+00	0,000000E+00	1,953248E+07	1,945817E+08	5,415834E+08	9,675341E+08	1,295022E+09	1,295050E+09	9,675977E+08	5,416381E+08
2917	1,946142E+08	1,954041E+07	0,000000E+00	0,000000E+00	1,953632E+07	1,946005E+08	5,416285E+08	9,675867E+08	1,295041E+09	1,295034E+09	9,675680E+08	5,416104E+08
2918	1,945923E+08	1,953558E+07	0,000000E+00	0,000000E+00	1,953921E+07	1,946048E+08	5,416194E+08	9,675739E+08	1,295033E+09	1,295022E+09	9,675512E+08	5,415979E+08
2919	1,945862E+08	1,953246E+07	0,000000E+00	0,000000E+00	1,953310E+07	1,945846E+08	5,415883E+08	9,675294E+08	1,294993E+09	1,295012E+09	9,675750E+08	5,416341E+08
2920	1,946180E+08	1,954391E+07	0,000000E+00	0,000000E+00	1,954395E+07	1,946195E+08	5,416366E+08	9,675644E+08	1,294985E+09	1,294957E+09	9,675003E+08	5,415783E+08
2921	1,945870E+08	1,953749E+07	0,000000E+00	0,000000E+00	1,954304E+07	1,946072E+08	5,415983E+08	9,675044E+08	1,294935E+09	1,294940E+09	9,675114E+08	5,415994E+08
2922	1,946089E+08	1,954534E+07	0,000000E+00	0,000000E+00	1,954306E+07	1,945970E+08	5,415851E+08	9,674850E+08	1,294899E+09	1,294895E+09	9,674892E+08	5,416077E+08
2923	1,946274E+08	1,955411E+07	0,000000E+00	0,000000E+00	1,955555E+07	1,946314E+08	5,416057E+08	9,674739E+08	1,294858E+09	1,294829E+09	9,674088E+08	5,415506E+08
2924	1,946006E+08	1,955027E+07	0,000000E+00	0,000000E+00	1,955327E+07	1,946099E+08	5,415475E+08	9,673768E+08	1,294776E+09	1,294808E+09	9,674440E+08	5,415984E+08
2925	1,946390E+08	1,956252E+07	0,000000E+00	0,000000E+00	1,955925E+07	1,946255E+08	5,415792E+08	9,673968E+08	1,294744E+09	1,294742E+09	9,673912E+08	5,415756E+08
2926	1,946303E+08	1,956258E+07	0,000000E+00	0,000000E+00	1,956716E+07	1,946451E+08	5,415864E+08	9,673970E+08	1,294732E+09	1,294703E+09	9,673369E+08	5,415382E+08
2927	1,946140E+08	1,955899E+07	0,000000E+00	0,000000E+00	1,956049E+07	1,946166E+08	5,415397E+08	9,673396E+08	1,294704E+09	1,294721E+09	9,673853E+08	5,415853E+08
2928	1,946482E+08	1,956829E+07	0,000000E+00	0,000000E+00	1,956572E+07	1,946404E+08	5,415851E+08	9,673896E+08	1,294724E+09	1,294704E+09	9,673423E+08	5,415426E+08
2929	1,946171E+08	1,956102E+07	0,000000E+00	0,000000E+00	1,956543E+07	1,946348E+08	5,415646E+08	9,673701E+08	1,294731E+09	1,294739E+09	9,673809E+08	5,415613E+08
2930	1,946231E+08	1,955963E+07	0,000000E+00	0,000000E+00	1,955627E+07	1,946111E+08	5,415514E+08	9,673778E+08	1,294755E+09	1,294774E+09	9,674234E+08	5,415960E+08
2931	1,946411E+08	1,956345E+07	0,000000E+00	0,000000E+00	1,956245E+07	1,946435E+08	5,416055E+08	9,674397E+08	1,294797E+09	1,294776E+09	9,673859E+08	5,415476E+08
2932	1,946022E+08	1,955166E+07	0,000000E+00	0,000000E+00	1,955407E+07	1,946155E+08	5,415694E+08	9,674183E+08	1,294821E+09	1,294844E+09	9,674628E+08	5,415973E+08
2933	1,946246E+08	1,955309E+07	0,000000E+00	0,000000E+00	1,954859E+07	1,946081E+08	5,415907E+08	9,674733E+08	1,294871E+09	1,294868E+09	9,674724E+08	5,415994E+08
2934	1,946210E+08	1,955228E+07	0,000000E+00	0,000000E+00	1,955378E+07	1,946264E+08	5,416107E+08	9,675100E+08	1,294917E+09	1,294886E+09	9,674462E+08	5,415586E+08
2935	1,945906E+08	1,954186E+07	0,000000E+00	0,000000E+00	1,954300E+07	1,945947E+08	5,415629E+08	9,674543E+08	1,294900E+09	1,294931E+09	9,675208E+08	5,416165E+08
2936	1,946243E+08	1,955038E+07	0,000000E+00	0,000000E+00	1,954701E+07	1,946127E+08	5,416037E+08	9,674930E+08	1,294899E+09	1,294897E+09	9,674829E+08	5,415883E+08
2937	1,946042E+08	1,954610E+07	0,000000E+00	0,000000E+00	1,955094E+07	1,946218E+08	5,416034E+08	9,674874E+08	1,294890E+09	1,294885E+09	9,674700E+08	5,415788E+08
2938	1,946007E+08	1,954405E+07	0,000000E+00	0,000000E+00	1,954386E+07	1,945965E+08	5,415696E+08	9,674527E+08	1,294865E+09	1,294875E+09	9,674852E+08	5,416116E+08
2939	1,946329E+08	1,955601E+07	0,000000E+00	0,000000E+00	1,955476E+07	1,946297E+08	5,416095E+08	9,674730E+08	1,294846E+09	1,294814E+09	9,674033E+08	5,415510E+08
2940	1,946018E+08	1,955055E+07	0,000000E+00	0,000000E+00	1,955505E+07	1,946191E+08	5,415686E+08	9,674061E+08	1,294793E+09	1,294801E+09	9,674183E+08	5,415743E+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												
2941	1,946243E+08	1,955847E+07	0,000000E+00	0,000000E+00	1,955605E+07	1,946107E+08	5,415542E+08	9,673776E+08	1,294743E+09	1,294751E+09	9,674016E+08	5,415864E+08
2942	1,946426E+08	1,956709E+07	0,000000E+00	0,000000E+00	1,956920E+07	1,946485E+08	5,415846E+08	9,673841E+08	1,294711E+09	1,294678E+09	9,673133E+08	5,415249E+08
2943	1,946124E+08	1,956180E+07	0,000000E+00	0,000000E+00	1,956678E+07	1,946298E+08	5,415355E+08	9,672980E+08	1,294636E+09	1,294659E+09	9,673463E+08	5,415716E+08
2944	1,946503E+08	1,957328E+07	0,000000E+00	0,000000E+00	1,957079E+07	1,946382E+08	5,415565E+08	9,673128E+08	1,294611E+09	1,294603E+09	9,672972E+08	5,415493E+08
2945	1,946423E+08	1,957338E+07	0,000000E+00	0,000000E+00	1,957832E+07	1,946587E+08	5,415653E+08	9,673125E+08	1,294605E+09	1,294586E+09	9,672640E+08	5,415192E+08
2946	1,946277E+08	1,957018E+07	0,000000E+00	0,000000E+00	1,957004E+07	1,946249E+08	5,415149E+08	9,672599E+08	1,294586E+09	1,294608E+09	9,673149E+08	5,415681E+08
2947	1,946616E+08	1,957917E+07	0,000000E+00	0,000000E+00	1,957536E+07	1,946502E+08	5,415585E+08	9,673016E+08	1,294595E+09	1,294581E+09	9,672663E+08	5,415243E+08
2948	1,946305E+08	1,957204E+07	0,000000E+00	0,000000E+00	1,957587E+07	1,946485E+08	5,415462E+08	9,672898E+08	1,294606E+09	1,294616E+09	9,673023E+08	5,415430E+08
2949	1,946357E+08	1,956959E+07	0,000000E+00	0,000000E+00	1,956647E+07	1,946236E+08	5,415352E+08	9,673056E+08	1,294636E+09	1,294652E+09	9,673469E+08	5,415774E+08
2950	1,946527E+08	1,957316E+07	0,000000E+00	0,000000E+00	1,957232E+07	1,946540E+08	5,415901E+08	9,673837E+08	1,294698E+09	1,294661E+09	9,673053E+08	5,415233E+08
2951	1,946105E+08	1,956043E+07	0,000000E+00	0,000000E+00	1,956365E+07	1,946263E+08	5,415515E+08	9,673526E+08	1,294719E+09	1,294736E+09	9,673860E+08	5,415725E+08
2952	1,946326E+08	1,956207E+07	0,000000E+00	0,000000E+00	1,955768E+07	1,946146E+08	5,415599E+08	9,673866E+08	1,294750E+09	1,294756E+09	9,674007E+08	5,415790E+08
2953	1,946315E+08	1,956218E+07	0,000000E+00	0,000000E+00	1,956424E+07	1,946395E+08	5,415869E+08	9,674183E+08	1,294785E+09	1,294773E+09	9,673835E+08	5,415449E+08
2954	1,946041E+08	1,955256E+07	0,000000E+00	0,000000E+00	1,955318E+07	1,946075E+08	5,415447E+08	9,673735E+08	1,294769E+09	1,294803E+09	9,674440E+08	5,415996E+08
2955	1,946380E+08	1,956127E+07	0,000000E+00	0,000000E+00	1,955770E+07	1,946264E+08	5,415855E+08	9,674127E+08	1,294763E+09	1,294753E+09	9,673898E+08	5,415652E+08
2956	1,946185E+08	1,955770E+07	0,000000E+00	0,000000E+00	1,956218E+07	1,946360E+08	5,415850E+08	9,674096E+08	1,294764E+09	1,294748E+09	9,673736E+08	5,415528E+08
2957	1,946145E+08	1,955583E+07	0,000000E+00	0,000000E+00	1,955547E+07	1,946084E+08	5,415449E+08	9,673661E+08	1,294735E+09	1,294744E+09	9,673981E+08	5,415871E+08
2958	1,946461E+08	1,956810E+07	0,000000E+00	0,000000E+00	1,956688E+07	1,946417E+08	5,415845E+08	9,673904E+08	1,294715E+09	1,294679E+09	9,673141E+08	5,415251E+08
2959	1,946131E+08	1,956224E+07	0,000000E+00	0,000000E+00	1,956823E+07	1,946362E+08	5,415465E+08	9,673145E+08	1,294651E+09	1,294661E+09	9,673285E+08	5,415498E+08
2960	1,946361E+08	1,957006E+07	0,000000E+00	0,000000E+00	1,956885E+07	1,946261E+08	5,415282E+08	9,672761E+08	1,294586E+09	1,294600E+09	9,673089E+08	5,415636E+08
2961	1,946563E+08	1,957872E+07	0,000000E+00	0,000000E+00	1,958205E+07	1,946663E+08	5,415660E+08	9,672913E+08	1,294561E+09	1,294535E+09	9,672270E+08	5,415054E+08
2962	1,946281E+08	1,957392E+07	0,000000E+00	0,000000E+00	1,957801E+07	1,946417E+08	5,415140E+08	9,672175E+08	1,294505E+09	1,294520E+09	9,672537E+08	5,415485E+08
2963	1,946653E+08	1,958519E+07	0,000000E+00	0,000000E+00	1,958132E+07	1,946477E+08	5,415261E+08	9,672192E+08	1,294473E+09	1,294463E+09	9,672034E+08	5,415235E+08
2964	1,946568E+08	1,958577E+07	0,000000E+00	0,000000E+00	1,958923E+07	1,946698E+08	5,415372E+08	9,672203E+08	1,294472E+09	1,294455E+09	9,671779E+08	5,414971E+08
2965	1,946419E+08	1,958200E+07	0,000000E+00	0,000000E+00	1,958136E+07	1,946378E+08	5,414904E+08	9,671702E+08	1,294453E+09	1,294483E+09	9,672383E+08	5,415489E+08
2966	1,946737E+08	1,959003E+07	0,000000E+00	0,000000E+00	1,958653E+07	1,946645E+08	5,415444E+08	9,672339E+08	1,294476E+09	1,294455E+09	9,671854E+08	5,415020E+08
2967	1,946397E+08	1,958149E+07	0,000000E+00	0,000000E+00	1,958676E+07	1,946645E+08	5,415378E+08	9,672325E+08	1,294503E+09	1,294502E+09	9,672241E+08	5,415200E+08
2968	1,946439E+08	1,957814E+07	0,000000E+00	0,000000E+00	1,957566E+07	1,946329E+08	5,415142E+08	9,672369E+08	1,294533E+09	1,294546E+09	9,672746E+08	5,415569E+08
2969	1,946622E+08	1,958188E+07	0,000000E+00	0,000000E+00	1,958126E+07	1,946632E+08	5,415673E+08	9,673073E+08	1,294594E+09	1,294571E+09	9,672501E+08	5,415101E+08
2970	1,946231E+08	1,957007E+07	0,000000E+00	0,000000E+00	1,957187E+07	1,946326E+08	5,415264E+08	9,672779E+08	1,294610E+09	1,294633E+09	9,673240E+08	5,415597E+08
2971	1,946458E+08	1,957206E+07	0,000000E+00	0,000000E+00	1,956687E+07	1,946238E+08	5,415301E+08	9,672928E+08	1,294615E+09	1,294628E+09	9,673247E+08	5,415629E+08
2972	1,946457E+08	1,957305E+07	0,000000E+00	0,000000E+00	1,957471E+07	1,946538E+08	5,415685E+08	9,673336E+08	1,294647E+09	1,294634E+09	9,672963E+08	5,415253E+08
2973	1,946179E+08	1,956324E+07	0,000000E+00	0,000000E+00	1,956440E+07	1,946222E+08	5,415291E+08	9,672972E+08	1,294637E+09	1,294662E+09	9,673520E+08	5,415744E+08
2974	1,946493E+08	1,957194E+07	0,000000E+00	0,000000E+00	1,956895E+07	1,946393E+08	5,415699E+08	9,673483E+08	1,294647E+09	1,294617E+09	9,672910E+08	5,415333E+08
2975	1,946275E+08	1,956821E+07	0,000000E+00	0,000000E+00	1,957395E+07	1,946508E+08	5,415666E+08	9,673349E+08	1,294645E+09	1,294621E+09	9,672815E+08	5,415219E+08
2976	1,946237E+08	1,956680E+07	0,000000E+00	0,000000E+00	1,956717E+07	1,946198E+08	5,415140E+08	9,672695E+08	1,294597E+09	1,294613E+09	9,673138E+08	5,415638E+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	1,946586E+08	1,957971E+07	0,000000E+00	0,000000E+00	1,957948E+07	1,946579E+08	5,415590E+08	9,672885E+08	1,294569E+09	1,294551E+09	9,672405E+08	5,415105E+08
2978	1,946298E+08	1,957483E+07	0,000000E+00	0,000000E+00	1,958033E+07	1,946509E+08	5,415256E+08	9,672254E+08	1,294506E+09	1,294518E+09	9,672424E+08	5,415330E+08
2979	1,946531E+08	1,958253E+07	0,000000E+00	0,000000E+00	1,958074E+07	1,946394E+08	5,415016E+08	9,671805E+08	1,294436E+09	1,294446E+09	9,672118E+08	5,415418E+08
2980	1,946736E+08	1,959162E+07	0,000000E+00	0,000000E+00	1,959360E+07	1,946791E+08	5,415411E+08	9,672004E+08	1,294421E+09	1,294389E+09	9,671291E+08	5,414812E+08
2981	1,946444E+08	1,958660E+07	0,000000E+00	0,000000E+00	1,958965E+07	1,946527E+08	5,414856E+08	9,671233E+08	1,294366E+09	1,294384E+09	9,671642E+08	5,415236E+08
2982	1,946787E+08	1,959732E+07	0,000000E+00	0,000000E+00	1,959286E+07	1,946594E+08	5,415015E+08	9,671368E+08	1,294342E+09	1,294327E+09	9,671131E+08	5,414970E+08
2983	1,946677E+08	1,959696E+07	0,000000E+00	0,000000E+00	1,960146E+07	1,946869E+08	5,415189E+08	9,671370E+08	1,294342E+09	1,294324E+09	9,670922E+08	5,414718E+08
2984	1,946511E+08	1,959209E+07	0,000000E+00	0,000000E+00	1,959261E+07	1,946524E+08	5,414716E+08	9,670881E+08	1,294322E+09	1,294354E+09	9,671574E+08	5,415276E+08
2985	1,946836E+08	1,959938E+07	0,000000E+00	0,000000E+00	1,959719E+07	1,946797E+08	5,415314E+08	9,671633E+08	1,294362E+09	1,294345E+09	9,671175E+08	5,414866E+08
2986	1,946524E+08	1,959118E+07	0,000000E+00	0,000000E+00	1,959546E+07	1,946725E+08	5,415186E+08	9,671690E+08	1,294404E+09	1,294398E+09	9,671537E+08	5,415023E+08
2987	1,946557E+08	1,958756E+07	0,000000E+00	0,000000E+00	1,958409E+07	1,946391E+08	5,414834E+08	9,671523E+08	1,294417E+09	1,294435E+09	9,672021E+08	5,415381E+08
2988	1,946751E+08	1,959228E+07	0,000000E+00	0,000000E+00	1,959036E+07	1,946718E+08	5,415395E+08	9,672202E+08	1,294470E+09	1,294452E+09	9,671760E+08	5,414932E+08
2989	1,946363E+08	1,958048E+07	0,000000E+00	0,000000E+00	1,958226E+07	1,946452E+08	5,415046E+08	9,671930E+08	1,294480E+09	1,294507E+09	9,672467E+08	5,415404E+08
2990	1,946571E+08	1,958210E+07	0,000000E+00	0,000000E+00	1,957776E+07	1,946392E+08	5,415201E+08	9,672288E+08	1,294493E+09	1,294493E+09	9,672347E+08	5,415372E+08
2991	1,946549E+08	1,958252E+07	0,000000E+00	0,000000E+00	1,958594E+07	1,946712E+08	5,415610E+08	9,672749E+08	1,294539E+09	1,294509E+09	9,672066E+08	5,414970E+08
2992	1,946259E+08	1,957259E+07	0,000000E+00	0,000000E+00	1,957474E+07	1,946341E+08	5,415095E+08	9,672251E+08	1,294527E+09	1,294546E+09	9,672697E+08	5,415487E+08
2993	1,946588E+08	1,958179E+07	0,000000E+00	0,000000E+00	1,957951E+07	1,946511E+08	5,415466E+08	9,672651E+08	1,294532E+09	1,294515E+09	9,672253E+08	5,415165E+08
2994	1,946417E+08	1,957959E+07	0,000000E+00	0,000000E+00	1,958414E+07	1,946597E+08	5,415385E+08	9,672483E+08	1,294522E+09	1,294505E+09	9,672094E+08	5,415068E+08
2995	1,946393E+08	1,957889E+07	0,000000E+00	0,000000E+00	1,957868E+07	1,946318E+08	5,414799E+08	9,671599E+08	1,294441E+09	1,294469E+09	9,672281E+08	5,415473E+08
2996	1,946768E+08	1,959278E+07	0,000000E+00	0,000000E+00	1,959158E+07	1,946726E+08	5,415341E+08	9,671874E+08	1,294408E+09	1,294391E+09	9,671435E+08	5,414920E+08
2997	1,946486E+08	1,958807E+07	0,000000E+00	0,000000E+00	1,959319E+07	1,946658E+08	5,415025E+08	9,671318E+08	1,294353E+09	1,294357E+09	9,671392E+08	5,415078E+08
2998	1,946690E+08	1,959538E+07	0,000000E+00	0,000000E+00	1,959312E+07	1,946527E+08	5,414787E+08	9,670949E+08	1,294293E+09	1,294289E+09	9,671014E+08	5,415081E+08
2999	1,946854E+08	1,960375E+07	0,000000E+00	0,000000E+00	1,960621E+07	1,946945E+08	5,415181E+08	9,671108E+08	1,294283E+09	1,294247E+09	9,670296E+08	5,414481E+08