

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-3000	3,135331E+22	3,135179E+22	5,746910E+21	5,747548E+21	6,270510E+22	1,149446E+22	7,419956E+22
-2999	3,135090E+22	3,135236E+22	5,747859E+21	5,747358E+21	6,270327E+22	1,149522E+22	7,419848E+22
-2998	3,135122E+22	3,135157E+22	5,747946E+21	5,748292E+21	6,270279E+22	1,149624E+22	7,419903E+22
-2997	3,135126E+22	3,135011E+22	5,747912E+21	5,748134E+21	6,270137E+22	1,149605E+22	7,419741E+22
-2996	3,134908E+22	3,135016E+22	5,748903E+21	5,748287E+21	6,269924E+22	1,149719E+22	7,419643E+22
-2995	3,135006E+22	3,134898E+22	5,748473E+21	5,749112E+21	6,269904E+22	1,149758E+22	7,419662E+22
-2994	3,134900E+22	3,134877E+22	5,748743E+21	5,748700E+21	6,269778E+22	1,149744E+22	7,419522E+22
-2993	3,134813E+22	3,134915E+22	5,749216E+21	5,749068E+21	6,269728E+22	1,149828E+22	7,419556E+22
-2992	3,134977E+22	3,134824E+22	5,748478E+21	5,749204E+21	6,269801E+22	1,149768E+22	7,419569E+22
-2991	3,134833E+22	3,134912E+22	5,749015E+21	5,748436E+21	6,269745E+22	1,149745E+22	7,419490E+22
-2990	3,134910E+22	3,134960E+22	5,748885E+21	5,748831E+21	6,269870E+22	1,149772E+22	7,419642E+22
-2989	3,135031E+22	3,134921E+22	5,748151E+21	5,748421E+21	6,269951E+22	1,149657E+22	7,419608E+22
-2988	3,134878E+22	3,135043E+22	5,748598E+21	5,747970E+21	6,269921E+22	1,149657E+22	7,419578E+22
-2987	3,135054E+22	3,135038E+22	5,747896E+21	5,748455E+21	6,270093E+22	1,149635E+22	7,419728E+22
-2986	3,135100E+22	3,135055E+22	5,747600E+21	5,747694E+21	6,270155E+22	1,149529E+22	7,419684E+22
-2985	3,135060E+22	3,135149E+22	5,748013E+21	5,747599E+21	6,270209E+22	1,149561E+22	7,419770E+22
-2984	3,135257E+22	3,135093E+22	5,747252E+21	5,747884E+21	6,270350E+22	1,149514E+22	7,419863E+22
-2983	3,135123E+22	3,135146E+22	5,747679E+21	5,747334E+21	6,270268E+22	1,149501E+22	7,419769E+22
-2982	3,135082E+22	3,135185E+22	5,748044E+21	5,747961E+21	6,270267E+22	1,149600E+22	7,419868E+22
-2981	3,135169E+22	3,135062E+22	5,747577E+21	5,748178E+21	6,270231E+22	1,149575E+22	7,419806E+22
-2980	3,134947E+22	3,135058E+22	5,748499E+21	5,747983E+21	6,270005E+22	1,149648E+22	7,419654E+22
-2979	3,134991E+22	3,134979E+22	5,748558E+21	5,748855E+21	6,269970E+22	1,149741E+22	7,419711E+22
-2978	3,134986E+22	3,134864E+22	5,748513E+21	5,748764E+21	6,269850E+22	1,149728E+22	7,419577E+22
-2977	3,134785E+22	3,134882E+22	5,749392E+21	5,748914E+21	6,269667E+22	1,149831E+22	7,419498E+22
-2976	3,134883E+22	3,134785E+22	5,748937E+21	5,749695E+21	6,269668E+22	1,149863E+22	7,419531E+22
-2975	3,134764E+22	3,134754E+22	5,749291E+21	5,749265E+21	6,269518E+22	1,149856E+22	7,419374E+22
-2974	3,134690E+22	3,134818E+22	5,749785E+21	5,749497E+21	6,269508E+22	1,149928E+22	7,419436E+22
-2973	3,134867E+22	3,134725E+22	5,749083E+21	5,749624E+21	6,269592E+22	1,149871E+22	7,419463E+22
-2972	3,134720E+22	3,134776E+22	5,749518E+21	5,748911E+21	6,269496E+22	1,149843E+22	7,419339E+22
-2971	3,134780E+22	3,134839E+22	5,749294E+21	5,749318E+21	6,269619E+22	1,149861E+22	7,419480E+22
-2970	3,134902E+22	3,134818E+22	5,748536E+21	5,748958E+21	6,269721E+22	1,149749E+22	7,419470E+22
-2969	3,134795E+22	3,134927E+22	5,748913E+21	5,748401E+21	6,269722E+22	1,149731E+22	7,419453E+22
-2968	3,134992E+22	3,134936E+22	5,748244E+21	5,748764E+21	6,269928E+22	1,149701E+22	7,419629E+22
-2967	3,135019E+22	3,134942E+22	5,748070E+21	5,748045E+21	6,269962E+22	1,149611E+22	7,419573E+22
-2966	3,134952E+22	3,135073E+22	5,748528E+21	5,747982E+21	6,270024E+22	1,149651E+22	7,419676E+22
-2965	3,135123E+22	3,135017E+22	5,747827E+21	5,748421E+21	6,270141E+22	1,149625E+22	7,419765E+22
-2964	3,134977E+22	3,135010E+22	5,748232E+21	5,747986E+21	6,269986E+22	1,149622E+22	7,419608E+22
-2963	3,134933E+22	3,135038E+22	5,748611E+21	5,748569E+21	6,269971E+22	1,149718E+22	7,419689E+22
-2962	3,135030E+22	3,134916E+22	5,748192E+21	5,748790E+21	6,269946E+22	1,149698E+22	7,419644E+22
-2961	3,134843E+22	3,134894E+22	5,749066E+21	5,748557E+21	6,269737E+22	1,149762E+22	7,419499E+22
-2960	3,134874E+22	3,134836E+22	5,749104E+21	5,749419E+21	6,269710E+22	1,149852E+22	7,419563E+22
-2959	3,134826E+22	3,134721E+22	5,749108E+21	5,749440E+21	6,269547E+22	1,149855E+22	7,419402E+22
-2958	3,134627E+22	3,134772E+22	5,749979E+21	5,749539E+21	6,269398E+22	1,149952E+22	7,419350E+22
-2957	3,134746E+22	3,134673E+22	5,749571E+21	5,750274E+21	6,269419E+22	1,149985E+22	7,419403E+22
-2956	3,134650E+22	3,134603E+22	5,749866E+21	5,749779E+21	6,269252E+22	1,149965E+22	7,419217E+22
-2955	3,134585E+22	3,134683E+22	5,750306E+21	5,749908E+21	6,269268E+22	1,150021E+22	7,419289E+22
-2954	3,134745E+22	3,134623E+22	5,749561E+21	5,750076E+21	6,269367E+22	1,149964E+22	7,419331E+22
-2953	3,134618E+22	3,134671E+22	5,749867E+21	5,749384E+21	6,269288E+22	1,149925E+22	7,419214E+22
-2952	3,134679E+22	3,134742E+22	5,749612E+21	5,749726E+21	6,269420E+22	1,149934E+22	7,419354E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2951	3,134787E+22	3,134709E+22	5,748951E+21	5,749388E+21	6,269496E+22	1,149834E+22	7,419330E+22
-2950	3,134704E+22	3,134840E+22	5,749359E+21	5,748738E+21	6,269545E+22	1,149810E+22	7,419354E+22
-2949	3,134909E+22	3,134844E+22	5,748781E+21	5,749149E+21	6,269754E+22	1,149793E+22	7,419547E+22
-2948	3,134915E+22	3,134818E+22	5,748559E+21	5,748552E+21	6,269733E+22	1,149711E+22	7,419444E+22
-2947	3,134820E+22	3,134956E+22	5,749000E+21	5,748532E+21	6,269775E+22	1,149753E+22	7,419529E+22
-2946	3,134976E+22	3,134907E+22	5,748346E+21	5,749038E+21	6,269883E+22	1,149738E+22	7,419621E+22
-2945	3,134866E+22	3,134869E+22	5,748719E+21	5,748569E+21	6,269735E+22	1,149729E+22	7,419464E+22
-2944	3,134827E+22	3,134897E+22	5,749134E+21	5,749044E+21	6,269724E+22	1,149818E+22	7,419542E+22
-2943	3,134898E+22	3,134766E+22	5,748821E+21	5,749352E+21	6,269663E+22	1,149817E+22	7,419481E+22
-2942	3,134698E+22	3,134774E+22	5,749680E+21	5,749127E+21	6,269472E+22	1,149881E+22	7,419353E+22
-2941	3,134723E+22	3,134719E+22	5,749757E+21	5,750091E+21	6,269442E+22	1,149985E+22	7,419427E+22
-2940	3,134677E+22	3,134565E+22	5,749710E+21	5,750144E+21	6,269242E+22	1,149985E+22	7,419227E+22
-2939	3,134488E+22	3,134626E+22	5,750562E+21	5,750115E+21	6,269115E+22	1,150068E+22	7,419183E+22
-2938	3,134625E+22	3,134548E+22	5,750186E+21	5,750786E+21	6,269173E+22	1,150097E+22	7,419270E+22
-2937	3,134560E+22	3,134467E+22	5,750378E+21	5,750233E+21	6,269026E+22	1,150061E+22	7,419087E+22
-2936	3,134471E+22	3,134574E+22	5,750747E+21	5,750317E+21	6,269044E+22	1,150106E+22	7,419150E+22
-2935	3,134594E+22	3,134512E+22	5,750021E+21	5,750597E+21	6,269106E+22	1,150062E+22	7,419168E+22
-2934	3,134479E+22	3,134577E+22	5,750299E+21	5,749839E+21	6,269056E+22	1,150014E+22	7,419070E+22
-2933	3,134573E+22	3,134643E+22	5,750096E+21	5,750160E+21	6,269217E+22	1,150026E+22	7,419242E+22
-2932	3,134703E+22	3,134574E+22	5,749396E+21	5,749803E+21	6,269276E+22	1,149920E+22	7,419196E+22
-2931	3,134624E+22	3,134726E+22	5,749774E+21	5,749122E+21	6,269350E+22	1,149890E+22	7,419239E+22
-2930	3,134807E+22	3,134761E+22	5,749219E+21	5,749611E+21	6,269568E+22	1,149883E+22	7,419451E+22
-2929	3,134820E+22	3,134719E+22	5,748926E+21	5,749083E+21	6,269539E+22	1,149801E+22	7,419340E+22
-2928	3,134709E+22	3,134855E+22	5,749408E+21	5,749010E+21	6,269564E+22	1,149842E+22	7,419406E+22
-2927	3,134837E+22	3,134785E+22	5,748903E+21	5,749567E+21	6,269621E+22	1,149847E+22	7,419468E+22
-2926	3,134740E+22	3,134750E+22	5,749342E+21	5,749048E+21	6,269490E+22	1,149839E+22	7,419329E+22
-2925	3,134703E+22	3,134764E+22	5,749835E+21	5,749606E+21	6,269467E+22	1,149944E+22	7,419411E+22
-2924	3,134746E+22	3,134600E+22	5,749458E+21	5,750050E+21	6,269347E+22	1,149951E+22	7,419298E+22
-2923	3,134541E+22	3,134621E+22	5,750256E+21	5,749837E+21	6,269162E+22	1,150009E+22	7,419171E+22
-2922	3,134569E+22	3,134581E+22	5,750360E+21	5,750766E+21	6,269150E+22	1,150113E+22	7,419263E+22
-2921	3,134569E+22	3,134418E+22	5,750250E+21	5,750728E+21	6,268987E+22	1,150098E+22	7,419084E+22
-2920	3,134389E+22	3,134494E+22	5,751094E+21	5,750529E+21	6,268884E+22	1,150162E+22	7,419046E+22
-2919	3,134488E+22	3,134425E+22	5,750785E+21	5,751252E+21	6,268913E+22	1,150204E+22	7,419117E+22
-2918	3,134413E+22	3,134378E+22	5,750912E+21	5,750704E+21	6,268790E+22	1,150162E+22	7,418952E+22
-2917	3,134326E+22	3,134475E+22	5,751270E+21	5,750863E+21	6,268801E+22	1,150213E+22	7,419014E+22
-2916	3,134456E+22	3,134374E+22	5,750467E+21	5,751165E+21	6,268830E+22	1,150163E+22	7,418993E+22
-2915	3,134376E+22	3,134446E+22	5,750695E+21	5,750293E+21	6,268822E+22	1,150099E+22	7,418921E+22
-2914	3,134496E+22	3,134532E+22	5,750537E+21	5,750558E+21	6,269028E+22	1,150110E+22	7,419138E+22
-2913	3,134651E+22	3,134464E+22	5,749765E+21	5,750205E+21	6,269115E+22	1,149997E+22	7,419112E+22
-2912	3,134540E+22	3,134641E+22	5,750120E+21	5,749499E+21	6,269181E+22	1,149962E+22	7,419143E+22
-2911	3,134671E+22	3,134674E+22	5,749677E+21	5,750104E+21	6,269345E+22	1,149978E+22	7,419324E+22
-2910	3,134685E+22	3,134634E+22	5,749433E+21	5,749546E+21	6,269319E+22	1,149898E+22	7,419217E+22
-2909	3,134587E+22	3,134744E+22	5,750027E+21	5,749504E+21	6,269331E+22	1,149953E+22	7,419284E+22
-2908	3,134710E+22	3,134625E+22	5,749522E+21	5,750109E+21	6,269335E+22	1,149963E+22	7,419298E+22
-2907	3,134609E+22	3,134595E+22	5,749931E+21	5,749619E+21	6,269204E+22	1,149955E+22	7,419159E+22
-2906	3,134560E+22	3,134631E+22	5,750433E+21	5,750268E+21	6,269191E+22	1,150070E+22	7,419261E+22
-2905	3,134621E+22	3,134453E+22	5,749968E+21	5,750751E+21	6,269074E+22	1,150072E+22	7,419146E+22
-2904	3,134411E+22	3,134488E+22	5,750764E+21	5,750423E+21	6,268899E+22	1,150119E+22	7,419018E+22
-2903	3,134425E+22	3,134451E+22	5,750991E+21	5,751337E+21	6,268876E+22	1,150233E+22	7,419109E+22

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Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2902	3,134438E+22	3,134303E+22	5,750912E+21	5,751199E+21	6,268741E+22	1,150211E+22	7,418952E+22
-2901	3,134256E+22	3,134378E+22	5,751778E+21	5,751062E+21	6,268634E+22	1,150284E+22	7,418918E+22
-2900	3,134322E+22	3,134279E+22	5,751359E+21	5,751870E+21	6,268601E+22	1,150323E+22	7,418924E+22
-2899	3,134255E+22	3,134236E+22	5,751383E+21	5,751313E+21	6,268491E+22	1,150270E+22	7,418761E+22
-2898	3,134199E+22	3,134346E+22	5,751722E+21	5,751409E+21	6,268545E+22	1,150313E+22	7,418858E+22
-2897	3,134388E+22	3,134240E+22	5,750824E+21	5,751610E+21	6,268628E+22	1,150243E+22	7,418871E+22
-2896	3,134327E+22	3,134342E+22	5,751020E+21	5,750577E+21	6,268668E+22	1,150160E+22	7,418828E+22
-2895	3,134409E+22	3,134452E+22	5,750954E+21	5,750902E+21	6,268861E+22	1,150186E+22	7,419047E+22
-2894	3,134544E+22	3,134415E+22	5,750195E+21	5,750564E+21	6,268960E+22	1,150076E+22	7,419036E+22
-2893	3,134422E+22	3,134573E+22	5,750624E+21	5,749973E+21	6,268995E+22	1,150060E+22	7,419055E+22
-2892	3,134525E+22	3,134554E+22	5,750198E+21	5,750631E+21	6,269079E+22	1,150083E+22	7,419162E+22
-2891	3,134558E+22	3,134498E+22	5,749970E+21	5,750068E+21	6,269056E+22	1,150004E+22	7,419060E+22
-2890	3,134473E+22	3,134597E+22	5,750624E+21	5,750038E+21	6,269070E+22	1,150066E+22	7,419136E+22
-2889	3,134608E+22	3,134468E+22	5,750036E+21	5,750724E+21	6,269076E+22	1,150076E+22	7,419152E+22
-2888	3,134487E+22	3,134457E+22	5,750387E+21	5,750222E+21	6,268944E+22	1,150061E+22	7,419005E+22
-2887	3,134399E+22	3,134499E+22	5,750989E+21	5,750942E+21	6,268899E+22	1,150193E+22	7,419092E+22
-2886	3,134475E+22	3,134341E+22	5,750583E+21	5,751331E+21	6,268816E+22	1,150191E+22	7,419008E+22
-2885	3,134286E+22	3,134363E+22	5,751469E+21	5,750984E+21	6,268649E+22	1,150245E+22	7,418894E+22
-2884	3,134278E+22	3,134296E+22	5,751684E+21	5,751894E+21	6,268574E+22	1,150358E+22	7,418932E+22
-2883	3,134289E+22	3,134159E+22	5,751531E+21	5,751781E+21	6,268448E+22	1,150331E+22	7,418779E+22
-2882	3,134101E+22	3,134245E+22	5,752346E+21	5,751690E+21	6,268346E+22	1,150404E+22	7,418749E+22
-2881	3,134196E+22	3,134134E+22	5,751785E+21	5,752497E+21	6,268329E+22	1,150428E+22	7,418758E+22
-2880	3,134150E+22	3,134107E+22	5,751743E+21	5,751775E+21	6,268257E+22	1,150352E+22	7,418609E+22
-2879	3,134101E+22	3,134233E+22	5,752169E+21	5,751818E+21	6,268335E+22	1,150399E+22	7,418733E+22
-2878	3,134312E+22	3,134160E+22	5,751311E+21	5,751906E+21	6,268472E+22	1,150322E+22	7,418793E+22
-2877	3,134243E+22	3,134271E+22	5,751534E+21	5,750965E+21	6,268514E+22	1,150250E+22	7,418764E+22
-2876	3,134274E+22	3,134356E+22	5,751424E+21	5,751383E+21	6,268630E+22	1,150281E+22	7,418911E+22
-2875	3,134401E+22	3,134310E+22	5,750640E+21	5,751075E+21	6,268712E+22	1,150171E+22	7,418883E+22
-2874	3,134295E+22	3,134454E+22	5,751123E+21	5,750497E+21	6,268749E+22	1,150162E+22	7,418911E+22
-2873	3,134432E+22	3,134405E+22	5,750642E+21	5,751126E+21	6,268837E+22	1,150177E+22	7,419014E+22
-2872	3,134469E+22	3,134359E+22	5,750396E+21	5,750502E+21	6,268828E+22	1,150090E+22	7,418917E+22
-2871	3,134353E+22	3,134475E+22	5,751121E+21	5,750588E+21	6,268828E+22	1,150171E+22	7,418999E+22
-2870	3,134477E+22	3,134370E+22	5,750565E+21	5,751282E+21	6,268847E+22	1,150185E+22	7,419031E+22
-2869	3,134356E+22	3,134350E+22	5,750982E+21	5,750862E+21	6,268707E+22	1,150184E+22	7,418891E+22
-2868	3,134242E+22	3,134356E+22	5,751621E+21	5,751569E+21	6,268599E+22	1,150319E+22	7,418918E+22
-2867	3,134333E+22	3,134194E+22	5,751258E+21	5,751916E+21	6,268527E+22	1,150317E+22	7,418844E+22
-2866	3,134153E+22	3,134212E+22	5,752194E+21	5,751584E+21	6,268365E+22	1,150378E+22	7,418743E+22
-2865	3,134143E+22	3,134137E+22	5,752271E+21	5,752535E+21	6,268280E+22	1,150481E+22	7,418760E+22
-2864	3,134143E+22	3,134016E+22	5,752006E+21	5,752383E+21	6,268158E+22	1,150439E+22	7,418597E+22
-2863	3,133945E+22	3,134108E+22	5,752835E+21	5,752299E+21	6,268053E+22	1,150513E+22	7,418567E+22
-2862	3,134076E+22	3,134023E+22	5,752285E+21	5,752947E+21	6,268100E+22	1,150523E+22	7,418623E+22
-2861	3,134070E+22	3,134004E+22	5,752268E+21	5,752180E+21	6,268075E+22	1,150445E+22	7,418519E+22
-2860	3,133998E+22	3,134120E+22	5,752671E+21	5,752206E+21	6,268118E+22	1,150488E+22	7,418605E+22
-2859	3,134202E+22	3,134072E+22	5,751776E+21	5,752332E+21	6,268274E+22	1,150411E+22	7,418684E+22
-2858	3,134123E+22	3,134181E+22	5,751986E+21	5,751462E+21	6,268304E+22	1,150345E+22	7,418649E+22
-2857	3,134159E+22	3,134241E+22	5,751786E+21	5,751896E+21	6,268400E+22	1,150368E+22	7,418768E+22
-2856	3,134299E+22	3,134191E+22	5,750979E+21	5,751500E+21	6,268491E+22	1,150248E+22	7,418738E+22
-2855	3,134191E+22	3,134327E+22	5,751577E+21	5,750942E+21	6,268518E+22	1,150252E+22	7,418770E+22
-2854	3,134340E+22	3,134298E+22	5,751163E+21	5,751530E+21	6,268638E+22	1,150269E+22	7,418907E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2853	3,134367E+22	3,134253E+22	5,750951E+21	5,751043E+21	6,268621E+22	1,150199E+22	7,418820E+22
-2852	3,134198E+22	3,134345E+22	5,751665E+21	5,751219E+21	6,268543E+22	1,150288E+22	7,418831E+22
-2851	3,134324E+22	3,134239E+22	5,751151E+21	5,751922E+21	6,268563E+22	1,150307E+22	7,418870E+22
-2850	3,134221E+22	3,134209E+22	5,751647E+21	5,751493E+21	6,268429E+22	1,150314E+22	7,418743E+22
-2849	3,134126E+22	3,134195E+22	5,752242E+21	5,752151E+21	6,268321E+22	1,150439E+22	7,418760E+22
-2848	3,134210E+22	3,134045E+22	5,751845E+21	5,752440E+21	6,268255E+22	1,150429E+22	7,418683E+22
-2847	3,133997E+22	3,134078E+22	5,752807E+21	5,752213E+21	6,268075E+22	1,150502E+22	7,418577E+22
-2846	3,133985E+22	3,134022E+22	5,752853E+21	5,753118E+21	6,268007E+22	1,150597E+22	7,418604E+22
-2845	3,134002E+22	3,133897E+22	5,752579E+21	5,753005E+21	6,267899E+22	1,150558E+22	7,418457E+22
-2844	3,133803E+22	3,133965E+22	5,753370E+21	5,752854E+21	6,267768E+22	1,150622E+22	7,418390E+22
-2843	3,133967E+22	3,133892E+22	5,752831E+21	5,753403E+21	6,267859E+22	1,150623E+22	7,418482E+22
-2842	3,133979E+22	3,133889E+22	5,752819E+21	5,752643E+21	6,267868E+22	1,150546E+22	7,418414E+22
-2841	3,133901E+22	3,134005E+22	5,753074E+21	5,752686E+21	6,267906E+22	1,150576E+22	7,418482E+22
-2840	3,134084E+22	3,133971E+22	5,752103E+21	5,752764E+21	6,268055E+22	1,150487E+22	7,418541E+22
-2839	3,133997E+22	3,134080E+22	5,752365E+21	5,751938E+21	6,268077E+22	1,150430E+22	7,418508E+22
-2838	3,134056E+22	3,134146E+22	5,752218E+21	5,752239E+21	6,268202E+22	1,150446E+22	7,418648E+22
-2837	3,134221E+22	3,134090E+22	5,751470E+21	5,751884E+21	6,268310E+22	1,150335E+22	7,418646E+22
-2836	3,134081E+22	3,134201E+22	5,752069E+21	5,751389E+21	6,268282E+22	1,150346E+22	7,418628E+22
-2835	3,134217E+22	3,134186E+22	5,751681E+21	5,752058E+21	6,268403E+22	1,150374E+22	7,418777E+22
-2834	3,134240E+22	3,134139E+22	5,751505E+21	5,751678E+21	6,268379E+22	1,150318E+22	7,418697E+22
-2833	3,134072E+22	3,134206E+22	5,752166E+21	5,751858E+21	6,268277E+22	1,150402E+22	7,418680E+22
-2832	3,134202E+22	3,134100E+22	5,751687E+21	5,752459E+21	6,268302E+22	1,150415E+22	7,418717E+22
-2831	3,134092E+22	3,134067E+22	5,752298E+21	5,752071E+21	6,268159E+22	1,150437E+22	7,418595E+22
-2830	3,133992E+22	3,134070E+22	5,752933E+21	5,752681E+21	6,268062E+22	1,150561E+22	7,418623E+22
-2829	3,134062E+22	3,133920E+22	5,752512E+21	5,753105E+21	6,267982E+22	1,150562E+22	7,418544E+22
-2828	3,133805E+22	3,133919E+22	5,753410E+21	5,752919E+21	6,267725E+22	1,150633E+22	7,418358E+22
-2827	3,133820E+22	3,133868E+22	5,753449E+21	5,753766E+21	6,267688E+22	1,150722E+22	7,418410E+22
-2826	3,133880E+22	3,133744E+22	5,753180E+21	5,753582E+21	6,267624E+22	1,150676E+22	7,418300E+22
-2825	3,133711E+22	3,133814E+22	5,753849E+21	5,753339E+21	6,267525E+22	1,150719E+22	7,418244E+22
-2824	3,133881E+22	3,133776E+22	5,753251E+21	5,753793E+21	6,267656E+22	1,150704E+22	7,418361E+22
-2823	3,133865E+22	3,133801E+22	5,753239E+21	5,753101E+21	6,267666E+22	1,150634E+22	7,418300E+22
-2822	3,133785E+22	3,133935E+22	5,753486E+21	5,753068E+21	6,267720E+22	1,150655E+22	7,418376E+22
-2821	3,133976E+22	3,133891E+22	5,752538E+21	5,753183E+21	6,267867E+22	1,150572E+22	7,418439E+22
-2820	3,133870E+22	3,133959E+22	5,752826E+21	5,752353E+21	6,267830E+22	1,150518E+22	7,418348E+22
-2819	3,133953E+22	3,134024E+22	5,752747E+21	5,752638E+21	6,267977E+22	1,150538E+22	7,418515E+22
-2818	3,134123E+22	3,133969E+22	5,752032E+21	5,752393E+21	6,268093E+22	1,150443E+22	7,418535E+22
-2817	3,133972E+22	3,134072E+22	5,752498E+21	5,751983E+21	6,268043E+22	1,150448E+22	7,418491E+22
-2816	3,134094E+22	3,134063E+22	5,752093E+21	5,752618E+21	6,268156E+22	1,150471E+22	7,418627E+22
-2815	3,134109E+22	3,134019E+22	5,752016E+21	5,752280E+21	6,268128E+22	1,150430E+22	7,418558E+22
-2814	3,133958E+22	3,134091E+22	5,752766E+21	5,752324E+21	6,268049E+22	1,150509E+22	7,418558E+22
-2813	3,134089E+22	3,133982E+22	5,752360E+21	5,752974E+21	6,268072E+22	1,150533E+22	7,418605E+22
-2812	3,133932E+22	3,133922E+22	5,752977E+21	5,752685E+21	6,267855E+22	1,150566E+22	7,418421E+22
-2811	3,133817E+22	3,133928E+22	5,753600E+21	5,753339E+21	6,267745E+22	1,150694E+22	7,418439E+22
-2810	3,133894E+22	3,133770E+22	5,753165E+21	5,753845E+21	6,267664E+22	1,150701E+22	7,418365E+22
-2809	3,133665E+22	3,133747E+22	5,753916E+21	5,753606E+21	6,267411E+22	1,150752E+22	7,418163E+22
-2808	3,133706E+22	3,133708E+22	5,753938E+21	5,754275E+21	6,267414E+22	1,150821E+22	7,418236E+22
-2807	3,133781E+22	3,133615E+22	5,753722E+21	5,754070E+21	6,267397E+22	1,150779E+22	7,418176E+22
-2806	3,133619E+22	3,133720E+22	5,754377E+21	5,753726E+21	6,267339E+22	1,150810E+22	7,418149E+22
-2805	3,133768E+22	3,133701E+22	5,753748E+21	5,754251E+21	6,267469E+22	1,150800E+22	7,418269E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2804	3,133708E+22	3,133697E+22	5,753700E+21	5,753598E+21	6,267405E+22	1,150730E+22	7,418135E+22
-2803	3,133645E+22	3,133825E+22	5,753971E+21	5,753510E+21	6,267470E+22	1,150748E+22	7,418218E+22
-2802	3,133868E+22	3,133771E+22	5,753057E+21	5,753631E+21	6,267639E+22	1,150669E+22	7,418308E+22
-2801	3,133786E+22	3,133819E+22	5,753233E+21	5,752802E+21	6,267604E+22	1,150603E+22	7,418208E+22
-2800	3,133867E+22	3,133903E+22	5,753130E+21	5,753068E+21	6,267770E+22	1,150620E+22	7,418390E+22
-2799	3,134015E+22	3,133873E+22	5,752447E+21	5,752937E+21	6,267888E+22	1,150538E+22	7,418426E+22
-2798	3,133864E+22	3,133986E+22	5,752938E+21	5,752478E+21	6,267851E+22	1,150542E+22	7,418392E+22
-2797	3,133986E+22	3,133973E+22	5,752612E+21	5,753133E+21	6,267959E+22	1,150574E+22	7,418533E+22
-2796	3,133966E+22	3,133886E+22	5,752624E+21	5,752804E+21	6,267852E+22	1,150543E+22	7,418395E+22
-2795	3,133821E+22	3,133952E+22	5,753485E+21	5,752854E+21	6,267773E+22	1,150634E+22	7,418407E+22
-2794	3,133940E+22	3,133836E+22	5,753104E+21	5,753633E+21	6,267776E+22	1,150674E+22	7,418450E+22
-2793	3,133764E+22	3,133750E+22	5,753564E+21	5,753434E+21	6,267514E+22	1,150700E+22	7,418214E+22
-2792	3,133657E+22	3,133755E+22	5,754130E+21	5,754021E+21	6,267412E+22	1,150815E+22	7,418227E+22
-2791	3,133750E+22	3,133613E+22	5,753729E+21	5,754496E+21	6,267362E+22	1,150822E+22	7,418185E+22
-2790	3,133563E+22	3,133614E+22	5,754478E+21	5,754073E+21	6,267177E+22	1,150855E+22	7,418032E+22
-2789	3,133617E+22	3,133602E+22	5,754519E+21	5,754718E+21	6,267219E+22	1,150924E+22	7,418142E+22
-2788	3,133642E+22	3,133508E+22	5,754295E+21	5,754560E+21	6,267150E+22	1,150885E+22	7,418035E+22
-2787	3,133470E+22	3,133628E+22	5,754939E+21	5,754225E+21	6,267098E+22	1,150916E+22	7,418015E+22
-2786	3,133621E+22	3,133599E+22	5,754298E+21	5,754801E+21	6,267220E+22	1,150910E+22	7,418130E+22
-2785	3,133580E+22	3,133562E+22	5,754106E+21	5,754126E+21	6,267141E+22	1,150823E+22	7,417965E+22
-2784	3,133548E+22	3,133683E+22	5,754354E+21	5,753910E+21	6,267232E+22	1,150826E+22	7,418058E+22
-2783	3,133784E+22	3,133653E+22	5,753489E+21	5,754073E+21	6,267437E+22	1,150756E+22	7,418193E+22
-2782	3,133713E+22	3,133726E+22	5,753632E+21	5,753212E+21	6,267439E+22	1,150684E+22	7,418123E+22
-2781	3,133772E+22	3,133826E+22	5,753534E+21	5,753547E+21	6,267598E+22	1,150708E+22	7,418307E+22
-2780	3,133876E+22	3,133770E+22	5,752915E+21	5,753464E+21	6,267647E+22	1,150638E+22	7,418285E+22
-2779	3,133736E+22	3,133874E+22	5,753510E+21	5,752947E+21	6,267609E+22	1,150646E+22	7,418255E+22
-2778	3,133863E+22	3,133847E+22	5,753286E+21	5,753633E+21	6,267710E+22	1,150692E+22	7,418402E+22
-2777	3,133842E+22	3,133732E+22	5,753213E+21	5,753385E+21	6,267573E+22	1,150660E+22	7,418233E+22
-2776	3,133679E+22	3,133796E+22	5,754052E+21	5,753454E+21	6,267475E+22	1,150751E+22	7,418226E+22
-2775	3,133779E+22	3,133697E+22	5,753681E+21	5,754345E+21	6,267476E+22	1,150803E+22	7,418279E+22
-2774	3,133625E+22	3,133611E+22	5,754113E+21	5,754074E+21	6,267236E+22	1,150819E+22	7,418055E+22
-2773	3,133533E+22	3,133623E+22	5,754698E+21	5,754612E+21	6,267155E+22	1,150931E+22	7,418086E+22
-2772	3,133609E+22	3,133467E+22	5,754371E+21	5,755051E+21	6,267076E+22	1,150942E+22	7,418018E+22
-2771	3,133437E+22	3,133487E+22	5,755171E+21	5,754588E+21	6,266924E+22	1,150976E+22	7,417900E+22
-2770	3,133479E+22	3,133490E+22	5,755198E+21	5,755312E+21	6,266969E+22	1,151051E+22	7,418020E+22
-2769	3,133485E+22	3,133377E+22	5,754788E+21	5,755198E+21	6,266862E+22	1,150999E+22	7,417861E+22
-2768	3,133328E+22	3,133487E+22	5,755364E+21	5,754766E+21	6,266815E+22	1,151013E+22	7,417828E+22
-2767	3,133498E+22	3,133471E+22	5,754732E+21	5,755284E+21	6,266970E+22	1,151002E+22	7,417971E+22
-2766	3,133504E+22	3,133446E+22	5,754509E+21	5,754477E+21	6,266950E+22	1,150899E+22	7,417849E+22
-2765	3,133488E+22	3,133590E+22	5,754751E+21	5,754267E+21	6,267079E+22	1,150902E+22	7,417980E+22
-2764	3,133672E+22	3,133559E+22	5,753921E+21	5,754496E+21	6,267230E+22	1,150842E+22	7,418072E+22
-2763	3,133596E+22	3,133647E+22	5,754101E+21	5,753668E+21	6,267243E+22	1,150777E+22	7,418020E+22
-2762	3,133653E+22	3,133735E+22	5,754063E+21	5,754060E+21	6,267388E+22	1,150812E+22	7,418200E+22
-2761	3,133750E+22	3,133641E+22	5,753396E+21	5,753985E+21	6,267390E+22	1,150738E+22	7,418129E+22
-2760	3,133625E+22	3,133726E+22	5,754051E+21	5,753422E+21	6,267351E+22	1,150747E+22	7,418098E+22
-2759	3,133737E+22	3,133712E+22	5,753902E+21	5,754188E+21	6,267449E+22	1,150809E+22	7,418258E+22
-2758	3,133713E+22	3,133603E+22	5,753788E+21	5,753993E+21	6,267316E+22	1,150778E+22	7,418094E+22
-2757	3,133536E+22	3,133667E+22	5,754596E+21	5,754127E+21	6,267203E+22	1,150872E+22	7,418075E+22
-2756	3,133600E+22	3,133543E+22	5,754284E+21	5,755037E+21	6,267143E+22	1,150932E+22	7,418076E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2755	3,133480E+22	3,133464E+22	5,754779E+21	5,754673E+21	6,266943E+22	1,150945E+22	7,417888E+22
-2754	3,133408E+22	3,133481E+22	5,755413E+21	5,755197E+21	6,266890E+22	1,151061E+22	7,417951E+22
-2753	3,133479E+22	3,133319E+22	5,754986E+21	5,755657E+21	6,266798E+22	1,151064E+22	7,417862E+22
-2752	3,133302E+22	3,133350E+22	5,755719E+21	5,755168E+21	6,266652E+22	1,151089E+22	7,417741E+22
-2751	3,133328E+22	3,133378E+22	5,755718E+21	5,755913E+21	6,266706E+22	1,151163E+22	7,417869E+22
-2750	3,133364E+22	3,133264E+22	5,755227E+21	5,755709E+21	6,266628E+22	1,151094E+22	7,417722E+22
-2749	3,133226E+22	3,133374E+22	5,755774E+21	5,755182E+21	6,266599E+22	1,151096E+22	7,417695E+22
-2748	3,133384E+22	3,133347E+22	5,755216E+21	5,755672E+21	6,266731E+22	1,151089E+22	7,417820E+22
-2747	3,133412E+22	3,133339E+22	5,755028E+21	5,754849E+21	6,266751E+22	1,150988E+22	7,417739E+22
-2746	3,133382E+22	3,133500E+22	5,755259E+21	5,754750E+21	6,266882E+22	1,151001E+22	7,417883E+22
-2745	3,133546E+22	3,133450E+22	5,754320E+21	5,755041E+21	6,266996E+22	1,150936E+22	7,417932E+22
-2744	3,133483E+22	3,133521E+22	5,754500E+21	5,754154E+21	6,267004E+22	1,150865E+22	7,417870E+22
-2743	3,133541E+22	3,133622E+22	5,754543E+21	5,754515E+21	6,267164E+22	1,150906E+22	7,418069E+22
-2742	3,133663E+22	3,133524E+22	5,753892E+21	5,754406E+21	6,267187E+22	1,150830E+22	7,418017E+22
-2741	3,133525E+22	3,133612E+22	5,754571E+21	5,753916E+21	6,267137E+22	1,150849E+22	7,417986E+22
-2740	3,133573E+22	3,133586E+22	5,754491E+21	5,754801E+21	6,267160E+22	1,150929E+22	7,418089E+22
-2739	3,133551E+22	3,133476E+22	5,754418E+21	5,754656E+21	6,267027E+22	1,150907E+22	7,417934E+22
-2738	3,133384E+22	3,133527E+22	5,755249E+21	5,754835E+21	6,266911E+22	1,151008E+22	7,417919E+22
-2737	3,133455E+22	3,133373E+22	5,754885E+21	5,755703E+21	6,266827E+22	1,151059E+22	7,417886E+22
-2736	3,133365E+22	3,133291E+22	5,755405E+21	5,755260E+21	6,266656E+22	1,151067E+22	7,417722E+22
-2735	3,133282E+22	3,133346E+22	5,756065E+21	5,755792E+21	6,266628E+22	1,151186E+22	7,417814E+22
-2734	3,133349E+22	3,133202E+22	5,755558E+21	5,756250E+21	6,266550E+22	1,151181E+22	7,417731E+22
-2733	3,133164E+22	3,133238E+22	5,756224E+21	5,755751E+21	6,266402E+22	1,151197E+22	7,417599E+22
-2732	3,133158E+22	3,133243E+22	5,756261E+21	5,756427E+21	6,266402E+22	1,151269E+22	7,417670E+22
-2731	3,133233E+22	3,133138E+22	5,755796E+21	5,756126E+21	6,266371E+22	1,151192E+22	7,417564E+22
-2730	3,133127E+22	3,133252E+22	5,756326E+21	5,755615E+21	6,266379E+22	1,151194E+22	7,417573E+22
-2729	3,133275E+22	3,133219E+22	5,755663E+21	5,756139E+21	6,266494E+22	1,151180E+22	7,417674E+22
-2728	3,133312E+22	3,133227E+22	5,755412E+21	5,755330E+21	6,266538E+22	1,151074E+22	7,417613E+22
-2727	3,133272E+22	3,133412E+22	5,755647E+21	5,755246E+21	6,266684E+22	1,151089E+22	7,417774E+22
-2726	3,133454E+22	3,133360E+22	5,754693E+21	5,755477E+21	6,266814E+22	1,151017E+22	7,417831E+22
-2725	3,133400E+22	3,133424E+22	5,754906E+21	5,754553E+21	6,266823E+22	1,150946E+22	7,417769E+22
-2724	3,133417E+22	3,133503E+22	5,755099E+21	5,754936E+21	6,266920E+22	1,151004E+22	7,417923E+22
-2723	3,133537E+22	3,133412E+22	5,754525E+21	5,754911E+21	6,266950E+22	1,150944E+22	7,417893E+22
-2722	3,133380E+22	3,133490E+22	5,755197E+21	5,754586E+21	6,266870E+22	1,150978E+22	7,417849E+22
-2721	3,133406E+22	3,133428E+22	5,755046E+21	5,755527E+21	6,266834E+22	1,151057E+22	7,417891E+22
-2720	3,133414E+22	3,133299E+22	5,754972E+21	5,755319E+21	6,266713E+22	1,151029E+22	7,417742E+22
-2719	3,133261E+22	3,133375E+22	5,755850E+21	5,755429E+21	6,266636E+22	1,151128E+22	7,417764E+22
-2718	3,133361E+22	3,133235E+22	5,755486E+21	5,756241E+21	6,266595E+22	1,151173E+22	7,417768E+22
-2717	3,133253E+22	3,133173E+22	5,755984E+21	5,755806E+21	6,266426E+22	1,151179E+22	7,417605E+22
-2716	3,133107E+22	3,133230E+22	5,756704E+21	5,756383E+21	6,266337E+22	1,151309E+22	7,417646E+22
-2715	3,133181E+22	3,133086E+22	5,756209E+21	5,756832E+21	6,266267E+22	1,151304E+22	7,417571E+22
-2714	3,133007E+22	3,133107E+22	5,756846E+21	5,756349E+21	6,266114E+22	1,151319E+22	7,417433E+22
-2713	3,133013E+22	3,133083E+22	5,756791E+21	5,756960E+21	6,266096E+22	1,151375E+22	7,417471E+22
-2712	3,133133E+22	3,132976E+22	5,756291E+21	5,756603E+21	6,266109E+22	1,151289E+22	7,417398E+22
-2711	3,133029E+22	3,133137E+22	5,756773E+21	5,756108E+21	6,266166E+22	1,151288E+22	7,417454E+22
-2710	3,133186E+22	3,133126E+22	5,756022E+21	5,756633E+21	6,266312E+22	1,151265E+22	7,417578E+22
-2709	3,133220E+22	3,133142E+22	5,755728E+21	5,755786E+21	6,266362E+22	1,151151E+22	7,417513E+22
-2708	3,133148E+22	3,133314E+22	5,756084E+21	5,755639E+21	6,266462E+22	1,151172E+22	7,417634E+22
-2707	3,133350E+22	3,133265E+22	5,755236E+21	5,755810E+21	6,266615E+22	1,151105E+22	7,417720E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2706	3,133299E+22	3,133319E+22	5,755496E+21	5,755006E+21	6,266617E+22	1,151050E+22	7,417667E+22
-2705	3,133277E+22	3,133370E+22	5,755641E+21	5,755483E+21	6,266647E+22	1,151112E+22	7,417759E+22
-2704	3,133401E+22	3,133268E+22	5,755046E+21	5,755548E+21	6,266669E+22	1,151059E+22	7,417729E+22
-2703	3,133242E+22	3,133356E+22	5,755715E+21	5,755253E+21	6,266598E+22	1,151097E+22	7,417695E+22
-2702	3,133292E+22	3,133286E+22	5,755558E+21	5,756129E+21	6,266577E+22	1,151169E+22	7,417746E+22
-2701	3,133316E+22	3,133162E+22	5,755514E+21	5,755853E+21	6,266478E+22	1,151137E+22	7,417615E+22
-2700	3,133124E+22	3,133233E+22	5,756542E+21	5,755953E+21	6,266357E+22	1,151250E+22	7,417607E+22
-2699	3,133208E+22	3,133119E+22	5,756247E+21	5,756812E+21	6,266327E+22	1,151306E+22	7,417633E+22
-2698	3,133082E+22	3,133054E+22	5,756700E+21	5,756528E+21	6,266136E+22	1,151323E+22	7,417459E+22
-2697	3,132910E+22	3,133069E+22	5,757317E+21	5,757087E+21	6,265979E+22	1,151440E+22	7,417419E+22
-2696	3,133028E+22	3,132908E+22	5,756773E+21	5,757452E+21	6,265936E+22	1,151423E+22	7,417359E+22
-2695	3,132888E+22	3,132950E+22	5,757366E+21	5,756873E+21	6,265838E+22	1,151424E+22	7,417262E+22
-2694	3,132933E+22	3,132946E+22	5,757236E+21	5,757418E+21	6,265879E+22	1,151465E+22	7,417344E+22
-2693	3,133055E+22	3,132878E+22	5,756656E+21	5,757039E+21	6,265933E+22	1,151370E+22	7,417303E+22
-2692	3,132907E+22	3,133053E+22	5,757188E+21	5,756557E+21	6,265960E+22	1,151374E+22	7,417335E+22
-2691	3,133073E+22	3,133059E+22	5,756498E+21	5,757036E+21	6,266132E+22	1,151353E+22	7,417485E+22
-2690	3,133112E+22	3,133062E+22	5,756222E+21	5,756224E+21	6,266173E+22	1,151245E+22	7,417418E+22
-2689	3,133026E+22	3,133189E+22	5,756583E+21	5,756047E+21	6,266215E+22	1,151263E+22	7,417478E+22
-2688	3,133249E+22	3,133123E+22	5,755767E+21	5,756259E+21	6,266372E+22	1,151203E+22	7,417575E+22
-2687	3,133178E+22	3,133198E+22	5,756013E+21	5,755567E+21	6,266376E+22	1,151158E+22	7,417534E+22
-2686	3,133160E+22	3,133244E+22	5,756094E+21	5,756107E+21	6,266405E+22	1,151220E+22	7,417625E+22
-2685	3,133283E+22	3,133137E+22	5,755473E+21	5,756138E+21	6,266421E+22	1,151161E+22	7,417582E+22
-2684	3,133102E+22	3,133218E+22	5,756269E+21	5,755796E+21	6,266319E+22	1,151206E+22	7,417526E+22
-2683	3,133174E+22	3,133161E+22	5,756234E+21	5,756608E+21	6,266335E+22	1,151284E+22	7,417619E+22
-2682	3,133188E+22	3,133041E+22	5,756236E+21	5,756451E+21	6,266229E+22	1,151269E+22	7,417498E+22
-2681	3,132951E+22	3,133090E+22	5,757227E+21	5,756620E+21	6,266040E+22	1,151385E+22	7,417425E+22
-2680	3,133038E+22	3,132962E+22	5,756902E+21	5,757527E+21	6,266000E+22	1,151443E+22	7,417443E+22
-2679	3,132914E+22	3,132905E+22	5,757305E+21	5,757241E+21	6,265819E+22	1,151455E+22	7,417273E+22
-2678	3,132779E+22	3,132908E+22	5,757832E+21	5,757697E+21	6,265687E+22	1,151553E+22	7,417240E+22
-2677	3,132927E+22	3,132757E+22	5,757242E+21	5,757942E+21	6,265684E+22	1,151518E+22	7,417202E+22
-2676	3,132774E+22	3,132816E+22	5,757901E+21	5,757333E+21	6,265590E+22	1,151523E+22	7,417113E+22
-2675	3,132822E+22	3,132855E+22	5,757795E+21	5,757866E+21	6,265677E+22	1,151566E+22	7,417243E+22
-2674	3,132934E+22	3,132802E+22	5,757175E+21	5,757578E+21	6,265735E+22	1,151475E+22	7,417211E+22
-2673	3,132765E+22	3,132940E+22	5,757654E+21	5,757038E+21	6,265706E+22	1,151469E+22	7,417175E+22
-2672	3,132962E+22	3,132932E+22	5,756982E+21	5,757447E+21	6,265894E+22	1,151443E+22	7,417337E+22
-2671	3,133014E+22	3,132948E+22	5,756702E+21	5,756630E+21	6,265962E+22	1,151333E+22	7,417295E+22
-2670	3,132937E+22	3,133070E+22	5,757015E+21	5,756483E+21	6,266007E+22	1,151350E+22	7,417357E+22
-2669	3,133146E+22	3,133020E+22	5,756152E+21	5,756745E+21	6,266165E+22	1,151290E+22	7,417455E+22
-2668	3,133039E+22	3,133084E+22	5,756476E+21	5,756123E+21	6,266123E+22	1,151260E+22	7,417383E+22
-2667	3,133029E+22	3,133137E+22	5,756646E+21	5,756635E+21	6,266166E+22	1,151328E+22	7,417495E+22
-2666	3,133162E+22	3,133024E+22	5,756071E+21	5,756723E+21	6,266186E+22	1,151279E+22	7,417466E+22
-2665	3,132965E+22	3,133062E+22	5,756902E+21	5,756355E+21	6,266027E+22	1,151326E+22	7,417352E+22
-2664	3,133046E+22	3,133003E+22	5,756923E+21	5,757214E+21	6,266049E+22	1,151414E+22	7,417463E+22
-2663	3,133033E+22	3,132907E+22	5,756901E+21	5,757162E+21	6,265940E+22	1,151406E+22	7,417346E+22
-2662	3,132793E+22	3,132940E+22	5,757808E+21	5,757358E+21	6,265733E+22	1,151517E+22	7,417250E+22
-2661	3,132888E+22	3,132808E+22	5,757424E+21	5,758163E+21	6,265697E+22	1,151559E+22	7,417255E+22
-2660	3,132761E+22	3,132744E+22	5,757899E+21	5,757797E+21	6,265506E+22	1,151570E+22	7,417075E+22
-2659	3,132663E+22	3,132773E+22	5,758471E+21	5,758148E+21	6,265435E+22	1,151662E+22	7,417097E+22
-2658	3,132814E+22	3,132648E+22	5,757852E+21	5,758468E+21	6,265462E+22	1,151632E+22	7,417094E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2657	3,132632E+22	3,132698E+22	5,758430E+21	5,757881E+21	6,265330E+22	1,151631E+22	7,416961E+22
-2656	3,132698E+22	3,132739E+22	5,758296E+21	5,758412E+21	6,265437E+22	1,151671E+22	7,417107E+22
-2655	3,132808E+22	3,132704E+22	5,757641E+21	5,758087E+21	6,265512E+22	1,151573E+22	7,417085E+22
-2654	3,132672E+22	3,132825E+22	5,758056E+21	5,757476E+21	6,265496E+22	1,151553E+22	7,417050E+22
-2653	3,132878E+22	3,132813E+22	5,757367E+21	5,757781E+21	6,265691E+22	1,151515E+22	7,417206E+22
-2652	3,132898E+22	3,132835E+22	5,757178E+21	5,757050E+21	6,265733E+22	1,151423E+22	7,417156E+22
-2651	3,132819E+22	3,132976E+22	5,757518E+21	5,756967E+21	6,265795E+22	1,151449E+22	7,417244E+22
-2650	3,133012E+22	3,132923E+22	5,756652E+21	5,757358E+21	6,265935E+22	1,151401E+22	7,417336E+22
-2649	3,132894E+22	3,132943E+22	5,756970E+21	5,756707E+21	6,265837E+22	1,151368E+22	7,417205E+22
-2648	3,132921E+22	3,132982E+22	5,757206E+21	5,757161E+21	6,265902E+22	1,151437E+22	7,417339E+22
-2647	3,133053E+22	3,132891E+22	5,756681E+21	5,757258E+21	6,265944E+22	1,151394E+22	7,417338E+22
-2646	3,132855E+22	3,132925E+22	5,757483E+21	5,756953E+21	6,265780E+22	1,151444E+22	7,417223E+22
-2645	3,132906E+22	3,132878E+22	5,757475E+21	5,757817E+21	6,265784E+22	1,151529E+22	7,417313E+22
-2644	3,132857E+22	3,132775E+22	5,757535E+21	5,757841E+21	6,265632E+22	1,151538E+22	7,417169E+22
-2643	3,132632E+22	3,132806E+22	5,758484E+21	5,757969E+21	6,265438E+22	1,151645E+22	7,417083E+22
-2642	3,132741E+22	3,132670E+22	5,758103E+21	5,758784E+21	6,265410E+22	1,151689E+22	7,417099E+22
-2641	3,132614E+22	3,132570E+22	5,758556E+21	5,758368E+21	6,265184E+22	1,151692E+22	7,416877E+22
-2640	3,132539E+22	3,132615E+22	5,759106E+21	5,758738E+21	6,265154E+22	1,151784E+22	7,416939E+22
-2639	3,132678E+22	3,132535E+22	5,758419E+21	5,759107E+21	6,265213E+22	1,151753E+22	7,416966E+22
-2638	3,132508E+22	3,132577E+22	5,758864E+21	5,758485E+21	6,265086E+22	1,151735E+22	7,416820E+22
-2637	3,132586E+22	3,132626E+22	5,758670E+21	5,758844E+21	6,265212E+22	1,151751E+22	7,416963E+22
-2636	3,132694E+22	3,132590E+22	5,758089E+21	5,758454E+21	6,265285E+22	1,151654E+22	7,416939E+22
-2635	3,132576E+22	3,132725E+22	5,758555E+21	5,757790E+21	6,265301E+22	1,151634E+22	7,416935E+22
-2634	3,132769E+22	3,132731E+22	5,757855E+21	5,758223E+21	6,265500E+22	1,151608E+22	7,417108E+22
-2633	3,132759E+22	3,132717E+22	5,757631E+21	5,757576E+21	6,265476E+22	1,151521E+22	7,416997E+22
-2632	3,132701E+22	3,132848E+22	5,757977E+21	5,757537E+21	6,265550E+22	1,151551E+22	7,417101E+22
-2631	3,132896E+22	3,132808E+22	5,757137E+21	5,757920E+21	6,265704E+22	1,151506E+22	7,417210E+22
-2630	3,132806E+22	3,132804E+22	5,757428E+21	5,757234E+21	6,265610E+22	1,151466E+22	7,417076E+22
-2629	3,132832E+22	3,132850E+22	5,757704E+21	5,757598E+21	6,265682E+22	1,151530E+22	7,417212E+22
-2628	3,132917E+22	3,132771E+22	5,757312E+21	5,757814E+21	6,265688E+22	1,151513E+22	7,417201E+22
-2627	3,132700E+22	3,132816E+22	5,758168E+21	5,757582E+21	6,265516E+22	1,151575E+22	7,417091E+22
-2626	3,132728E+22	3,132759E+22	5,758157E+21	5,758532E+21	6,265487E+22	1,151669E+22	7,417156E+22
-2625	3,132669E+22	3,132599E+22	5,758212E+21	5,758534E+21	6,265269E+22	1,151675E+22	7,416944E+22
-2624	3,132492E+22	3,132617E+22	5,759155E+21	5,758604E+21	6,265109E+22	1,151776E+22	7,416885E+22
-2623	3,132607E+22	3,132511E+22	5,758759E+21	5,759399E+21	6,265118E+22	1,151816E+22	7,416934E+22
-2622	3,132501E+22	3,132422E+22	5,759085E+21	5,759011E+21	6,264923E+22	1,151810E+22	7,416733E+22
-2621	3,132420E+22	3,132492E+22	5,759545E+21	5,759283E+21	6,264913E+22	1,151883E+22	7,416795E+22
-2620	3,132535E+22	3,132431E+22	5,758920E+21	5,759646E+21	6,264966E+22	1,151857E+22	7,416822E+22
-2619	3,132390E+22	3,132485E+22	5,759373E+21	5,758916E+21	6,264875E+22	1,151829E+22	7,416704E+22
-2618	3,132472E+22	3,132531E+22	5,759185E+21	5,759236E+21	6,265003E+22	1,151842E+22	7,416845E+22
-2617	3,132570E+22	3,132457E+22	5,758609E+21	5,758858E+21	6,265026E+22	1,151747E+22	7,416773E+22
-2616	3,132468E+22	3,132591E+22	5,759055E+21	5,758275E+21	6,265060E+22	1,151733E+22	7,416793E+22
-2615	3,132640E+22	3,132625E+22	5,758325E+21	5,758793E+21	6,265265E+22	1,151712E+22	7,416977E+22
-2614	3,132653E+22	3,132589E+22	5,758004E+21	5,758165E+21	6,265243E+22	1,151617E+22	7,416860E+22
-2613	3,132612E+22	3,132722E+22	5,758335E+21	5,757969E+21	6,265334E+22	1,151630E+22	7,416964E+22
-2612	3,132796E+22	3,132694E+22	5,757648E+21	5,758336E+21	6,265490E+22	1,151598E+22	7,417088E+22
-2611	3,132710E+22	3,132706E+22	5,758023E+21	5,757657E+21	6,265416E+22	1,151568E+22	7,416984E+22
-2610	3,132696E+22	3,132763E+22	5,758343E+21	5,758155E+21	6,265459E+22	1,151650E+22	7,417109E+22
-2609	3,132736E+22	3,132636E+22	5,757970E+21	5,758493E+21	6,265372E+22	1,151646E+22	7,417018E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2608	3,132532E+22	3,132654E+22	5,758842E+21	5,758321E+21	6,265186E+22	1,151716E+22	7,416903E+22
-2607	3,132562E+22	3,132602E+22	5,758830E+21	5,759248E+21	6,265163E+22	1,151808E+22	7,416971E+22
-2606	3,132543E+22	3,132409E+22	5,758799E+21	5,759203E+21	6,264952E+22	1,151800E+22	7,416752E+22
-2605	3,132382E+22	3,132445E+22	5,759690E+21	5,759153E+21	6,264827E+22	1,151884E+22	7,416711E+22
-2604	3,132472E+22	3,132378E+22	5,759357E+21	5,760006E+21	6,264850E+22	1,151936E+22	7,416786E+22
-2603	3,132365E+22	3,132319E+22	5,759664E+21	5,759597E+21	6,264683E+22	1,151926E+22	7,416609E+22
-2602	3,132277E+22	3,132401E+22	5,760100E+21	5,759838E+21	6,264678E+22	1,151994E+22	7,416672E+22
-2601	3,132385E+22	3,132296E+22	5,759483E+21	5,760116E+21	6,264680E+22	1,151960E+22	7,416640E+22
-2600	3,132279E+22	3,132342E+22	5,759927E+21	5,759340E+21	6,264622E+22	1,151927E+22	7,416548E+22
-2599	3,132354E+22	3,132415E+22	5,759716E+21	5,759671E+21	6,264769E+22	1,151939E+22	7,416708E+22
-2598	3,132463E+22	3,132332E+22	5,759005E+21	5,759384E+21	6,264795E+22	1,151839E+22	7,416634E+22
-2597	3,132368E+22	3,132478E+22	5,759363E+21	5,758753E+21	6,264846E+22	1,151812E+22	7,416657E+22
-2596	3,132527E+22	3,132525E+22	5,758732E+21	5,759291E+21	6,265052E+22	1,151802E+22	7,416854E+22
-2595	3,132565E+22	3,132499E+22	5,758461E+21	5,758586E+21	6,265064E+22	1,151705E+22	7,416769E+22
-2594	3,132520E+22	3,132632E+22	5,758858E+21	5,758372E+21	6,265153E+22	1,151723E+22	7,416876E+22
-2593	3,132668E+22	3,132567E+22	5,758269E+21	5,758812E+21	6,265235E+22	1,151708E+22	7,416943E+22
-2592	3,132574E+22	3,132574E+22	5,758670E+21	5,758292E+21	6,265148E+22	1,151696E+22	7,416845E+22
-2591	3,132517E+22	3,132636E+22	5,758998E+21	5,758873E+21	6,265154E+22	1,151787E+22	7,416941E+22
-2590	3,132578E+22	3,132466E+22	5,758538E+21	5,759254E+21	6,265043E+22	1,151779E+22	7,416823E+22
-2589	3,132403E+22	3,132467E+22	5,759361E+21	5,758914E+21	6,264871E+22	1,151828E+22	7,416698E+22
-2588	3,132430E+22	3,132434E+22	5,759458E+21	5,759809E+21	6,264864E+22	1,151927E+22	7,416790E+22
-2587	3,132430E+22	3,132276E+22	5,759434E+21	5,759745E+21	6,264706E+22	1,151918E+22	7,416624E+22
-2586	3,132247E+22	3,132342E+22	5,760303E+21	5,759743E+21	6,264589E+22	1,152005E+22	7,416593E+22
-2585	3,132302E+22	3,132251E+22	5,760001E+21	5,760634E+21	6,264553E+22	1,152064E+22	7,416616E+22
-2584	3,132217E+22	3,132188E+22	5,760292E+21	5,760216E+21	6,264404E+22	1,152051E+22	7,416455E+22
-2583	3,132126E+22	3,132279E+22	5,760714E+21	5,760367E+21	6,264405E+22	1,152108E+22	7,416513E+22
-2582	3,132271E+22	3,132141E+22	5,759993E+21	5,760615E+21	6,264413E+22	1,152061E+22	7,416474E+22
-2581	3,132181E+22	3,132195E+22	5,760349E+21	5,759758E+21	6,264376E+22	1,152011E+22	7,416387E+22
-2580	3,132230E+22	3,132305E+22	5,760170E+21	5,760175E+21	6,264535E+22	1,152035E+22	7,416570E+22
-2579	3,132352E+22	3,132244E+22	5,759420E+21	5,759889E+21	6,264596E+22	1,151931E+22	7,416527E+22
-2578	3,132264E+22	3,132396E+22	5,759765E+21	5,759229E+21	6,264660E+22	1,151899E+22	7,416559E+22
-2577	3,132415E+22	3,132405E+22	5,759225E+21	5,759707E+21	6,264820E+22	1,151893E+22	7,416713E+22
-2576	3,132475E+22	3,132379E+22	5,759004E+21	5,759008E+21	6,264854E+22	1,151801E+22	7,416655E+22
-2575	3,132402E+22	3,132531E+22	5,759454E+21	5,758854E+21	6,264934E+22	1,151831E+22	7,416765E+22
-2574	3,132537E+22	3,132434E+22	5,758792E+21	5,759420E+21	6,264972E+22	1,151821E+22	7,416793E+22
-2573	3,132435E+22	3,132431E+22	5,759152E+21	5,758904E+21	6,264865E+22	1,151806E+22	7,416671E+22
-2572	3,132362E+22	3,132496E+22	5,759574E+21	5,759519E+21	6,264858E+22	1,151909E+22	7,416768E+22
-2571	3,132449E+22	3,132323E+22	5,759141E+21	5,759834E+21	6,264772E+22	1,151897E+22	7,416669E+22
-2570	3,132285E+22	3,132329E+22	5,759984E+21	5,759465E+21	6,264614E+22	1,151945E+22	7,416559E+22
-2569	3,132283E+22	3,132272E+22	5,760167E+21	5,760407E+21	6,264555E+22	1,152057E+22	7,416613E+22
-2568	3,132280E+22	3,132136E+22	5,760134E+21	5,760443E+21	6,264416E+22	1,152058E+22	7,416474E+22
-2567	3,132072E+22	3,132221E+22	5,760988E+21	5,760454E+21	6,264293E+22	1,152144E+22	7,416437E+22
-2566	3,132148E+22	3,132095E+22	5,760585E+21	5,761307E+21	6,264244E+22	1,152189E+22	7,416433E+22
-2565	3,132093E+22	3,132028E+22	5,760793E+21	5,760712E+21	6,264122E+22	1,152151E+22	7,416272E+22
-2564	3,132002E+22	3,132143E+22	5,761254E+21	5,760822E+21	6,264144E+22	1,152208E+22	7,416352E+22
-2563	3,132165E+22	3,132034E+22	5,760482E+21	5,761059E+21	6,264198E+22	1,152154E+22	7,416352E+22
-2562	3,132069E+22	3,132109E+22	5,760766E+21	5,760241E+21	6,264177E+22	1,152101E+22	7,416278E+22
-2561	3,132097E+22	3,132192E+22	5,760637E+21	5,760689E+21	6,264288E+22	1,152133E+22	7,416421E+22
-2560	3,132248E+22	3,132138E+22	5,759894E+21	5,760394E+21	6,264386E+22	1,152029E+22	7,416415E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2559	3,132157E+22	3,132296E+22	5,760270E+21	5,759655E+21	6,264454E+22	1,151993E+22	7,416446E+22
-2558	3,132327E+22	3,132273E+22	5,759708E+21	5,760141E+21	6,264600E+22	1,151985E+22	7,416585E+22
-2557	3,132382E+22	3,132247E+22	5,759459E+21	5,759443E+21	6,264629E+22	1,151890E+22	7,416519E+22
-2556	3,132257E+22	3,132420E+22	5,759995E+21	5,759421E+21	6,264677E+22	1,151942E+22	7,416619E+22
-2555	3,132393E+22	3,132325E+22	5,759334E+21	5,760024E+21	6,264718E+22	1,151936E+22	7,416653E+22
-2554	3,132296E+22	3,132305E+22	5,759705E+21	5,759495E+21	6,264601E+22	1,151920E+22	7,416521E+22
-2553	3,132214E+22	3,132327E+22	5,760239E+21	5,760085E+21	6,264540E+22	1,152032E+22	7,416573E+22
-2552	3,132322E+22	3,132164E+22	5,759839E+21	5,760433E+21	6,264486E+22	1,152027E+22	7,416513E+22
-2551	3,132135E+22	3,132196E+22	5,760687E+21	5,760122E+21	6,264332E+22	1,152081E+22	7,416412E+22
-2550	3,132131E+22	3,132122E+22	5,760785E+21	5,761147E+21	6,264253E+22	1,152193E+22	7,416446E+22
-2549	3,132132E+22	3,131987E+22	5,760693E+21	5,761121E+21	6,264118E+22	1,152181E+22	7,416300E+22
-2548	3,131914E+22	3,132089E+22	5,761601E+21	5,761085E+21	6,264003E+22	1,152269E+22	7,416272E+22
-2547	3,132022E+22	3,131966E+22	5,761170E+21	5,761808E+21	6,263988E+22	1,152298E+22	7,416286E+22
-2546	3,131980E+22	3,131905E+22	5,761343E+21	5,761171E+21	6,263885E+22	1,152251E+22	7,416137E+22
-2545	3,131862E+22	3,132001E+22	5,761832E+21	5,761328E+21	6,263863E+22	1,152316E+22	7,416179E+22
-2544	3,132027E+22	3,131918E+22	5,761007E+21	5,761633E+21	6,263945E+22	1,152264E+22	7,416209E+22
-2543	3,131934E+22	3,132008E+22	5,761251E+21	5,760807E+21	6,263942E+22	1,152206E+22	7,416148E+22
-2542	3,131996E+22	3,132055E+22	5,761048E+21	5,761184E+21	6,264051E+22	1,152223E+22	7,416275E+22
-2541	3,132171E+22	3,132008E+22	5,760279E+21	5,760736E+21	6,264179E+22	1,152101E+22	7,416280E+22
-2540	3,132068E+22	3,132196E+22	5,760738E+21	5,760019E+21	6,264264E+22	1,152076E+22	7,416340E+22
-2539	3,132226E+22	3,132189E+22	5,760184E+21	5,760541E+21	6,264415E+22	1,152073E+22	7,416487E+22
-2538	3,132255E+22	3,132167E+22	5,759928E+21	5,759960E+21	6,264423E+22	1,151989E+22	7,416411E+22
-2537	3,132095E+22	3,132290E+22	5,760574E+21	5,760027E+21	6,264384E+22	1,152060E+22	7,416444E+22
-2536	3,132244E+22	3,132188E+22	5,759954E+21	5,760660E+21	6,264432E+22	1,152061E+22	7,416493E+22
-2535	3,132157E+22	3,132159E+22	5,760361E+21	5,760112E+21	6,264316E+22	1,152047E+22	7,416363E+22
-2534	3,132094E+22	3,132143E+22	5,760862E+21	5,760728E+21	6,264237E+22	1,152159E+22	7,416396E+22
-2533	3,132197E+22	3,132000E+22	5,760428E+21	5,761081E+21	6,264197E+22	1,152151E+22	7,416348E+22
-2532	3,131975E+22	3,132066E+22	5,761316E+21	5,760850E+21	6,264041E+22	1,152217E+22	7,416258E+22
-2531	3,131979E+22	3,132000E+22	5,761401E+21	5,761818E+21	6,263979E+22	1,152322E+22	7,416301E+22
-2530	3,131991E+22	3,131861E+22	5,761292E+21	5,761702E+21	6,263852E+22	1,152299E+22	7,416152E+22
-2529	3,131762E+22	3,131927E+22	5,762280E+21	5,761603E+21	6,263689E+22	1,152388E+22	7,416077E+22
-2528	3,131887E+22	3,131826E+22	5,761830E+21	5,762321E+21	6,263713E+22	1,152415E+22	7,416128E+22
-2527	3,131834E+22	3,131783E+22	5,761942E+21	5,761723E+21	6,263617E+22	1,152367E+22	7,415983E+22
-2526	3,131728E+22	3,131858E+22	5,762302E+21	5,761931E+21	6,263586E+22	1,152423E+22	7,416009E+22
-2525	3,131917E+22	3,131786E+22	5,761400E+21	5,762154E+21	6,263704E+22	1,152355E+22	7,416059E+22
-2524	3,131827E+22	3,131904E+22	5,761676E+21	5,761267E+21	6,263731E+22	1,152294E+22	7,416025E+22
-2523	3,131921E+22	3,131962E+22	5,761475E+21	5,761523E+21	6,263883E+22	1,152300E+22	7,416183E+22
-2522	3,132092E+22	3,131923E+22	5,760723E+21	5,761068E+21	6,264015E+22	1,152179E+22	7,416194E+22
-2521	3,131936E+22	3,132086E+22	5,761287E+21	5,760486E+21	6,264022E+22	1,152177E+22	7,416200E+22
-2520	3,132071E+22	3,132091E+22	5,760744E+21	5,761121E+21	6,264162E+22	1,152187E+22	7,416349E+22
-2519	3,132095E+22	3,132051E+22	5,760504E+21	5,760613E+21	6,264146E+22	1,152112E+22	7,416257E+22
-2518	3,131965E+22	3,132116E+22	5,761104E+21	5,760667E+21	6,264081E+22	1,152177E+22	7,416258E+22
-2517	3,132139E+22	3,132013E+22	5,760476E+21	5,761202E+21	6,264152E+22	1,152168E+22	7,416320E+22
-2516	3,132043E+22	3,132018E+22	5,760943E+21	5,760693E+21	6,264061E+22	1,152164E+22	7,416225E+22
-2515	3,131977E+22	3,132025E+22	5,761431E+21	5,761319E+21	6,264002E+22	1,152275E+22	7,416277E+22
-2514	3,132058E+22	3,131897E+22	5,761009E+21	5,761717E+21	6,263955E+22	1,152273E+22	7,416228E+22
-2513	3,131803E+22	3,131928E+22	5,762019E+21	5,761529E+21	6,263731E+22	1,152355E+22	7,416085E+22
-2512	3,131809E+22	3,131865E+22	5,762129E+21	5,762427E+21	6,263674E+22	1,152456E+22	7,416130E+22
-2511	3,131835E+22	3,131717E+22	5,762025E+21	5,762294E+21	6,263551E+22	1,152432E+22	7,415983E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2510	3,131626E+22	3,131739E+22	5,762905E+21	5,762204E+21	6,263365E+22	1,152511E+22	7,415876E+22
-2509	3,131748E+22	3,131661E+22	5,762352E+21	5,762908E+21	6,263409E+22	1,152526E+22	7,415935E+22
-2508	3,131690E+22	3,131660E+22	5,762418E+21	5,762355E+21	6,263350E+22	1,152477E+22	7,415827E+22
-2507	3,131620E+22	3,131747E+22	5,762711E+21	5,762451E+21	6,263367E+22	1,152516E+22	7,415883E+22
-2506	3,131830E+22	3,131693E+22	5,761803E+21	5,762541E+21	6,263523E+22	1,152434E+22	7,415958E+22
-2505	3,131727E+22	3,131791E+22	5,762181E+21	5,761624E+21	6,263518E+22	1,152381E+22	7,415899E+22
-2504	3,131811E+22	3,131876E+22	5,762009E+21	5,761891E+21	6,263687E+22	1,152390E+22	7,416077E+22
-2503	3,131958E+22	3,131841E+22	5,761256E+21	5,761566E+21	6,263798E+22	1,152282E+22	7,416081E+22
-2502	3,131799E+22	3,131949E+22	5,761754E+21	5,761099E+21	6,263748E+22	1,152285E+22	7,416033E+22
-2501	3,131942E+22	3,131946E+22	5,761194E+21	5,761703E+21	6,263889E+22	1,152290E+22	7,416178E+22
-2500	3,131974E+22	3,131916E+22	5,761004E+21	5,761188E+21	6,263890E+22	1,152219E+22	7,416109E+22
-2499	3,131879E+22	3,131978E+22	5,761610E+21	5,761165E+21	6,263857E+22	1,152277E+22	7,416135E+22
-2498	3,132047E+22	3,131891E+22	5,761027E+21	5,761704E+21	6,263938E+22	1,152273E+22	7,416211E+22
-2497	3,131893E+22	3,131885E+22	5,761610E+21	5,761325E+21	6,263778E+22	1,152293E+22	7,416071E+22
-2496	3,131803E+22	3,131914E+22	5,762140E+21	5,761997E+21	6,263718E+22	1,152414E+22	7,416131E+22
-2495	3,131878E+22	3,131766E+22	5,761758E+21	5,762418E+21	6,263644E+22	1,152418E+22	7,416061E+22
-2494	3,131642E+22	3,131738E+22	5,762715E+21	5,762201E+21	6,263380E+22	1,152492E+22	7,415872E+22
-2493	3,131668E+22	3,131679E+22	5,762767E+21	5,763000E+21	6,263347E+22	1,152577E+22	7,415924E+22
-2492	3,131687E+22	3,131562E+22	5,762635E+21	5,762909E+21	6,263250E+22	1,152554E+22	7,415804E+22
-2491	3,131499E+22	3,131605E+22	5,763393E+21	5,762808E+21	6,263104E+22	1,152620E+22	7,415724E+22
-2490	3,131627E+22	3,131551E+22	5,762793E+21	5,763470E+21	6,263178E+22	1,152626E+22	7,415805E+22
-2489	3,131559E+22	3,131539E+22	5,762930E+21	5,762898E+21	6,263097E+22	1,152583E+22	7,415680E+22
-2488	3,131507E+22	3,131653E+22	5,763239E+21	5,762867E+21	6,263160E+22	1,152611E+22	7,415770E+22
-2487	3,131725E+22	3,131598E+22	5,762370E+21	5,762937E+21	6,263324E+22	1,152531E+22	7,415854E+22
-2486	3,131623E+22	3,131656E+22	5,762680E+21	5,762091E+21	6,263280E+22	1,152477E+22	7,415757E+22
-2485	3,131685E+22	3,131753E+22	5,762449E+21	5,762384E+21	6,263438E+22	1,152483E+22	7,415921E+22
-2484	3,131817E+22	3,131733E+22	5,761702E+21	5,762158E+21	6,263550E+22	1,152386E+22	7,415935E+22
-2483	3,131696E+22	3,131822E+22	5,762156E+21	5,761633E+21	6,263518E+22	1,152379E+22	7,415897E+22
-2482	3,131855E+22	3,131824E+22	5,761637E+21	5,762136E+21	6,263679E+22	1,152377E+22	7,416056E+22
-2481	3,131871E+22	3,131779E+22	5,761581E+21	5,761661E+21	6,263650E+22	1,152324E+22	7,415974E+22
-2480	3,131755E+22	3,131872E+22	5,762234E+21	5,761656E+21	6,263627E+22	1,152389E+22	7,416016E+22
-2479	3,131892E+22	3,131792E+22	5,761710E+21	5,762339E+21	6,263684E+22	1,152405E+22	7,416089E+22
-2478	3,131731E+22	3,131728E+22	5,762257E+21	5,762072E+21	6,263458E+22	1,152433E+22	7,415891E+22
-2477	3,131635E+22	3,131749E+22	5,762785E+21	5,762680E+21	6,263384E+22	1,152546E+22	7,415930E+22
-2476	3,131717E+22	3,131609E+22	5,762428E+21	5,763094E+21	6,263327E+22	1,152552E+22	7,415879E+22
-2475	3,131522E+22	3,131564E+22	5,763325E+21	5,762804E+21	6,263086E+22	1,152613E+22	7,415699E+22
-2474	3,131541E+22	3,131530E+22	5,763341E+21	5,763568E+21	6,263071E+22	1,152691E+22	7,415762E+22
-2473	3,131526E+22	3,131416E+22	5,763243E+21	5,763575E+21	6,262942E+22	1,152682E+22	7,415624E+22
-2472	3,131341E+22	3,131492E+22	5,763964E+21	5,763425E+21	6,262834E+22	1,152739E+22	7,415573E+22
-2471	3,131491E+22	3,131441E+22	5,763390E+21	5,764038E+21	6,262933E+22	1,152743E+22	7,415675E+22
-2470	3,131451E+22	3,131389E+22	5,763458E+21	5,763385E+21	6,262840E+22	1,152684E+22	7,415525E+22
-2469	3,131411E+22	3,131521E+22	5,763731E+21	5,763239E+21	6,262932E+22	1,152697E+22	7,415629E+22
-2468	3,131611E+22	3,131500E+22	5,762850E+21	5,763367E+21	6,263111E+22	1,152622E+22	7,415733E+22
-2467	3,131518E+22	3,131556E+22	5,763069E+21	5,762577E+21	6,263073E+22	1,152565E+22	7,415638E+22
-2466	3,131571E+22	3,131658E+22	5,762832E+21	5,762856E+21	6,263229E+22	1,152569E+22	7,415798E+22
-2465	3,131684E+22	3,131613E+22	5,762198E+21	5,762675E+21	6,263297E+22	1,152487E+22	7,415784E+22
-2464	3,131583E+22	3,131716E+22	5,762691E+21	5,762079E+21	6,263299E+22	1,152477E+22	7,415776E+22
-2463	3,131750E+22	3,131705E+22	5,762264E+21	5,762618E+21	6,263455E+22	1,152488E+22	7,415944E+22
-2462	3,131748E+22	3,131624E+22	5,762176E+21	5,762263E+21	6,263372E+22	1,152444E+22	7,415816E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2461	3,131607E+22	3,131732E+22	5,762808E+21	5,762309E+21	6,263339E+22	1,152512E+22	7,415850E+22
-2460	3,131722E+22	3,131662E+22	5,762329E+21	5,763063E+21	6,263384E+22	1,152539E+22	7,415923E+22
-2459	3,131594E+22	3,131573E+22	5,762840E+21	5,762754E+21	6,263167E+22	1,152559E+22	7,415726E+22
-2458	3,131507E+22	3,131594E+22	5,763383E+21	5,763228E+21	6,263101E+22	1,152661E+22	7,415762E+22
-2457	3,131569E+22	3,131443E+22	5,763121E+21	5,763690E+21	6,263013E+22	1,152681E+22	7,415694E+22
-2456	3,131369E+22	3,131432E+22	5,763985E+21	5,763394E+21	6,262801E+22	1,152738E+22	7,415539E+22
-2455	3,131382E+22	3,131406E+22	5,764005E+21	5,764235E+21	6,262787E+22	1,152824E+22	7,415611E+22
-2454	3,131376E+22	3,131258E+22	5,763826E+21	5,764272E+21	6,262634E+22	1,152810E+22	7,415444E+22
-2453	3,131211E+22	3,131349E+22	5,764496E+21	5,763986E+21	6,262560E+22	1,152848E+22	7,415409E+22
-2452	3,131376E+22	3,131323E+22	5,763945E+21	5,764525E+21	6,262699E+22	1,152847E+22	7,415546E+22
-2451	3,131372E+22	3,131265E+22	5,763930E+21	5,763812E+21	6,262637E+22	1,152774E+22	7,415411E+22
-2450	3,131308E+22	3,131421E+22	5,764162E+21	5,763625E+21	6,262729E+22	1,152779E+22	7,415508E+22
-2449	3,131465E+22	3,131397E+22	5,763337E+21	5,763889E+21	6,262862E+22	1,152723E+22	7,415585E+22
-2448	3,131374E+22	3,131459E+22	5,763543E+21	5,763074E+21	6,262833E+22	1,152662E+22	7,415495E+22
-2447	3,131446E+22	3,131547E+22	5,763371E+21	5,763357E+21	6,262994E+22	1,152673E+22	7,415666E+22
-2446	3,131583E+22	3,131456E+22	5,762704E+21	5,763180E+21	6,263039E+22	1,152588E+22	7,415627E+22
-2445	3,131486E+22	3,131572E+22	5,763182E+21	5,762549E+21	6,263058E+22	1,152573E+22	7,415631E+22
-2444	3,131629E+22	3,131596E+22	5,762796E+21	5,763179E+21	6,263225E+22	1,152597E+22	7,415822E+22
-2443	3,131632E+22	3,131503E+22	5,762655E+21	5,762898E+21	6,263135E+22	1,152555E+22	7,415691E+22
-2442	3,131473E+22	3,131612E+22	5,763333E+21	5,762895E+21	6,263085E+22	1,152623E+22	7,415708E+22
-2441	3,131560E+22	3,131520E+22	5,762998E+21	5,763693E+21	6,263081E+22	1,152669E+22	7,415750E+22
-2440	3,131443E+22	3,131434E+22	5,763554E+21	5,763320E+21	6,262877E+22	1,152687E+22	7,415565E+22
-2439	3,131361E+22	3,131443E+22	5,764158E+21	5,763846E+21	6,262805E+22	1,152800E+22	7,415605E+22
-2438	3,131407E+22	3,131260E+22	5,763814E+21	5,764417E+21	6,262666E+22	1,152823E+22	7,415489E+22
-2437	3,131203E+22	3,131268E+22	5,764590E+21	5,764122E+21	6,262470E+22	1,152871E+22	7,415342E+22
-2436	3,131224E+22	3,131265E+22	5,764610E+21	5,764936E+21	6,262488E+22	1,152955E+22	7,415443E+22
-2435	3,131268E+22	3,131114E+22	5,764348E+21	5,764860E+21	6,262381E+22	1,152921E+22	7,415302E+22
-2434	3,131118E+22	3,131228E+22	5,764994E+21	5,764385E+21	6,262346E+22	1,152938E+22	7,415284E+22
-2433	3,131251E+22	3,131208E+22	5,764522E+21	5,764943E+21	6,262459E+22	1,152947E+22	7,415405E+22
-2432	3,131233E+22	3,131185E+22	5,764457E+21	5,764243E+21	6,262418E+22	1,152870E+22	7,415288E+22
-2431	3,131165E+22	3,131328E+22	5,764689E+21	5,764151E+21	6,262493E+22	1,152884E+22	7,415377E+22
-2430	3,131319E+22	3,131256E+22	5,763804E+21	5,764469E+21	6,262575E+22	1,152827E+22	7,415403E+22
-2429	3,131261E+22	3,131320E+22	5,763966E+21	5,763579E+21	6,262581E+22	1,152755E+22	7,415336E+22
-2428	3,131354E+22	3,131420E+22	5,763851E+21	5,763822E+21	6,262774E+22	1,152767E+22	7,415541E+22
-2427	3,131518E+22	3,131326E+22	5,763140E+21	5,763655E+21	6,262844E+22	1,152679E+22	7,415524E+22
-2426	3,131391E+22	3,131469E+22	5,763614E+21	5,763014E+21	6,262860E+22	1,152663E+22	7,415522E+22
-2425	3,131475E+22	3,131491E+22	5,763362E+21	5,763775E+21	6,262966E+22	1,152714E+22	7,415680E+22
-2424	3,131474E+22	3,131401E+22	5,763275E+21	5,763484E+21	6,262875E+22	1,152676E+22	7,415551E+22
-2423	3,131323E+22	3,131480E+22	5,764057E+21	5,763498E+21	6,262803E+22	1,152756E+22	7,415558E+22
-2422	3,131409E+22	3,131337E+22	5,763713E+21	5,764321E+21	6,262746E+22	1,152803E+22	7,415550E+22
-2421	3,131296E+22	3,131257E+22	5,764225E+21	5,763960E+21	6,262553E+22	1,152818E+22	7,415371E+22
-2420	3,131200E+22	3,131292E+22	5,764819E+21	5,764565E+21	6,262492E+22	1,152938E+22	7,415430E+22
-2419	3,131269E+22	3,131105E+22	5,764366E+21	5,765173E+21	6,262373E+22	1,152954E+22	7,415327E+22
-2418	3,131069E+22	3,131131E+22	5,765106E+21	5,764742E+21	6,262200E+22	1,152985E+22	7,415185E+22
-2417	3,131081E+22	3,131135E+22	5,765233E+21	5,765514E+21	6,262217E+22	1,153075E+22	7,415291E+22
-2416	3,131143E+22	3,131003E+22	5,764979E+21	5,765300E+21	6,262146E+22	1,153028E+22	7,415174E+22
-2415	3,130992E+22	3,131115E+22	5,765650E+21	5,764860E+21	6,262107E+22	1,153051E+22	7,415158E+22
-2414	3,131096E+22	3,131068E+22	5,765077E+21	5,765511E+21	6,262164E+22	1,153059E+22	7,415223E+22
-2413	3,131078E+22	3,131049E+22	5,764917E+21	5,764833E+21	6,262127E+22	1,152975E+22	7,415102E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2412	3,131030E+22	3,131200E+22	5,765144E+21	5,764721E+21	6,262230E+22	1,152987E+22	7,415216E+22
-2411	3,131241E+22	3,131116E+22	5,764181E+21	5,764956E+21	6,262357E+22	1,152914E+22	7,415270E+22
-2410	3,131201E+22	3,131201E+22	5,764329E+21	5,763915E+21	6,262402E+22	1,152824E+22	7,415227E+22
-2409	3,131260E+22	3,131320E+22	5,764340E+21	5,764226E+21	6,262580E+22	1,152857E+22	7,415436E+22
-2408	3,131396E+22	3,131259E+22	5,763661E+21	5,764093E+21	6,262655E+22	1,152775E+22	7,415431E+22
-2407	3,131252E+22	3,131384E+22	5,764227E+21	5,763589E+21	6,262635E+22	1,152782E+22	7,415417E+22
-2406	3,131308E+22	3,131349E+22	5,763998E+21	5,764413E+21	6,262657E+22	1,152841E+22	7,415498E+22
-2405	3,131321E+22	3,131244E+22	5,763921E+21	5,764123E+21	6,262565E+22	1,152804E+22	7,415369E+22
-2404	3,131182E+22	3,131313E+22	5,764757E+21	5,764145E+21	6,262495E+22	1,152890E+22	7,415385E+22
-2403	3,131286E+22	3,131159E+22	5,764327E+21	5,765020E+21	6,262445E+22	1,152935E+22	7,415380E+22
-2402	3,131159E+22	3,131103E+22	5,764769E+21	5,764636E+21	6,262262E+22	1,152941E+22	7,415202E+22
-2401	3,131028E+22	3,131146E+22	5,765439E+21	5,765294E+21	6,262174E+22	1,153073E+22	7,415247E+22
-2400	3,131111E+22	3,130985E+22	5,765014E+21	5,765791E+21	6,262096E+22	1,153081E+22	7,415177E+22
-2399	3,130940E+22	3,131003E+22	5,765804E+21	5,765308E+21	6,261943E+22	1,153111E+22	7,415054E+22
-2398	3,130939E+22	3,130977E+22	5,765901E+21	5,766035E+21	6,261916E+22	1,153194E+22	7,415110E+22
-2397	3,131003E+22	3,130866E+22	5,765566E+21	5,765827E+21	6,261869E+22	1,153139E+22	7,415008E+22
-2396	3,130843E+22	3,130991E+22	5,766189E+21	5,765438E+21	6,261834E+22	1,153163E+22	7,414997E+22
-2395	3,130970E+22	3,130934E+22	5,765481E+21	5,766105E+21	6,261904E+22	1,153159E+22	7,415062E+22
-2394	3,130974E+22	3,130926E+22	5,765261E+21	5,765297E+21	6,261899E+22	1,153056E+22	7,414955E+22
-2393	3,130927E+22	3,131083E+22	5,765589E+21	5,765156E+21	6,262011E+22	1,153075E+22	7,415085E+22
-2392	3,131159E+22	3,131027E+22	5,764680E+21	5,765294E+21	6,262186E+22	1,152997E+22	7,415183E+22
-2391	3,131113E+22	3,131115E+22	5,764881E+21	5,764347E+21	6,262228E+22	1,152923E+22	7,415151E+22
-2390	3,131118E+22	3,131207E+22	5,764881E+21	5,764773E+21	6,262325E+22	1,152965E+22	7,415290E+22
-2389	3,131242E+22	3,131139E+22	5,764197E+21	5,764709E+21	6,262381E+22	1,152891E+22	7,415272E+22
-2388	3,131101E+22	3,131247E+22	5,764835E+21	5,764239E+21	6,262348E+22	1,152907E+22	7,415255E+22
-2387	3,131189E+22	3,131184E+22	5,764558E+21	5,765034E+21	6,262373E+22	1,152959E+22	7,415333E+22
-2386	3,131208E+22	3,131082E+22	5,764462E+21	5,764660E+21	6,262290E+22	1,152912E+22	7,415202E+22
-2385	3,131039E+22	3,131164E+22	5,765379E+21	5,764782E+21	6,262203E+22	1,153016E+22	7,415219E+22
-2384	3,131132E+22	3,131037E+22	5,764956E+21	5,765653E+21	6,262169E+22	1,153061E+22	7,415230E+22
-2383	3,131005E+22	3,130975E+22	5,765440E+21	5,765340E+21	6,261980E+22	1,153078E+22	7,415058E+22
-2382	3,130860E+22	3,130988E+22	5,766111E+21	5,765975E+21	6,261848E+22	1,153209E+22	7,415056E+22
-2381	3,130963E+22	3,130830E+22	5,765698E+21	5,766398E+21	6,261794E+22	1,153210E+22	7,415003E+22
-2380	3,130805E+22	3,130853E+22	5,766514E+21	5,765892E+21	6,261658E+22	1,153241E+22	7,414899E+22
-2379	3,130812E+22	3,130824E+22	5,766474E+21	5,766627E+21	6,261635E+22	1,153310E+22	7,414945E+22
-2378	3,130862E+22	3,130732E+22	5,766021E+21	5,766382E+21	6,261594E+22	1,153240E+22	7,414834E+22
-2377	3,130688E+22	3,130863E+22	5,766668E+21	5,766029E+21	6,261551E+22	1,153270E+22	7,414821E+22
-2376	3,130845E+22	3,130827E+22	5,765966E+21	5,766554E+21	6,261672E+22	1,153252E+22	7,414924E+22
-2375	3,130888E+22	3,130820E+22	5,765778E+21	5,765714E+21	6,261708E+22	1,153149E+22	7,414857E+22
-2374	3,130827E+22	3,130959E+22	5,766095E+21	5,765565E+21	6,261786E+22	1,153166E+22	7,414951E+22
-2373	3,131048E+22	3,130927E+22	5,765178E+21	5,765753E+21	6,261975E+22	1,153093E+22	7,415068E+22
-2372	3,130986E+22	3,131018E+22	5,765393E+21	5,764914E+21	6,262004E+22	1,153031E+22	7,415035E+22
-2371	3,130991E+22	3,131084E+22	5,765329E+21	5,765373E+21	6,262075E+22	1,153070E+22	7,415145E+22
-2370	3,131122E+22	3,131011E+22	5,764640E+21	5,765238E+21	6,262133E+22	1,152988E+22	7,415121E+22
-2369	3,130974E+22	3,131101E+22	5,765406E+21	5,764787E+21	6,262075E+22	1,153019E+22	7,415094E+22
-2368	3,131067E+22	3,131053E+22	5,765195E+21	5,765527E+21	6,262120E+22	1,153072E+22	7,415192E+22
-2367	3,131082E+22	3,130949E+22	5,765129E+21	5,765293E+21	6,262032E+22	1,153042E+22	7,415074E+22
-2366	3,130862E+22	3,131005E+22	5,766017E+21	5,765507E+21	6,261867E+22	1,153152E+22	7,415019E+22
-2365	3,130959E+22	3,130885E+22	5,765611E+21	5,766392E+21	6,261845E+22	1,153200E+22	7,415045E+22
-2364	3,130854E+22	3,130818E+22	5,766146E+21	5,766043E+21	6,261672E+22	1,153219E+22	7,414891E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2363	3,130737E+22	3,130819E+22	5,766747E+21	5,766588E+21	6,261555E+22	1,153333E+22	7,414889E+22
-2362	3,130843E+22	3,130680E+22	5,766283E+21	5,766908E+21	6,261523E+22	1,153319E+22	7,414842E+22
-2361	3,130651E+22	3,130721E+22	5,767121E+21	5,766485E+21	6,261372E+22	1,153361E+22	7,414733E+22
-2360	3,130652E+22	3,130718E+22	5,767039E+21	5,767173E+21	6,261370E+22	1,153421E+22	7,414791E+22
-2359	3,130720E+22	3,130618E+22	5,766568E+21	5,766977E+21	6,261339E+22	1,153354E+22	7,414693E+22
-2358	3,130547E+22	3,130720E+22	5,767175E+21	5,766576E+21	6,261267E+22	1,153375E+22	7,414642E+22
-2357	3,130740E+22	3,130695E+22	5,766482E+21	5,767018E+21	6,261436E+22	1,153350E+22	7,414786E+22
-2356	3,130801E+22	3,130701E+22	5,766317E+21	5,766184E+21	6,261501E+22	1,153250E+22	7,414751E+22
-2355	3,130737E+22	3,130841E+22	5,766520E+21	5,766069E+21	6,261579E+22	1,153259E+22	7,414838E+22
-2354	3,130931E+22	3,130823E+22	5,765554E+21	5,766227E+21	6,261754E+22	1,153178E+22	7,414932E+22
-2353	3,130847E+22	3,130908E+22	5,765863E+21	5,765471E+21	6,261756E+22	1,153133E+22	7,414889E+22
-2352	3,130866E+22	3,130974E+22	5,765865E+21	5,765810E+21	6,261840E+22	1,153168E+22	7,415007E+22
-2351	3,131014E+22	3,130884E+22	5,765249E+21	5,765720E+21	6,261898E+22	1,153097E+22	7,414995E+22
-2350	3,130839E+22	3,130944E+22	5,766022E+21	5,765335E+21	6,261783E+22	1,153136E+22	7,414919E+22
-2349	3,130920E+22	3,130910E+22	5,765829E+21	5,766155E+21	6,261829E+22	1,153198E+22	7,415028E+22
-2348	3,130925E+22	3,130809E+22	5,765788E+21	5,766032E+21	6,261735E+22	1,153182E+22	7,414917E+22
-2347	3,130717E+22	3,130845E+22	5,766600E+21	5,766248E+21	6,261562E+22	1,153285E+22	7,414846E+22
-2346	3,130820E+22	3,130733E+22	5,766202E+21	5,767011E+21	6,261553E+22	1,153321E+22	7,414874E+22
-2345	3,130714E+22	3,130668E+22	5,766838E+21	5,766669E+21	6,261381E+22	1,153351E+22	7,414732E+22
-2344	3,130597E+22	3,130688E+22	5,767456E+21	5,767111E+21	6,261285E+22	1,153457E+22	7,414742E+22
-2343	3,130693E+22	3,130556E+22	5,766964E+21	5,767542E+21	6,261249E+22	1,153451E+22	7,414700E+22
-2342	3,130463E+22	3,130566E+22	5,767720E+21	5,767171E+21	6,261029E+22	1,153489E+22	7,414518E+22
-2341	3,130486E+22	3,130569E+22	5,767612E+21	5,767813E+21	6,261055E+22	1,153543E+22	7,414598E+22
-2340	3,130598E+22	3,130474E+22	5,767136E+21	5,767554E+21	6,261072E+22	1,153469E+22	7,414541E+22
-2339	3,130464E+22	3,130572E+22	5,767615E+21	5,767048E+21	6,261036E+22	1,153466E+22	7,414503E+22
-2338	3,130666E+22	3,130582E+22	5,766883E+21	5,767388E+21	6,261248E+22	1,153427E+22	7,414675E+22
-2337	3,130695E+22	3,130611E+22	5,766747E+21	5,766632E+21	6,261305E+22	1,153338E+22	7,414643E+22
-2336	3,130615E+22	3,130770E+22	5,766970E+21	5,766467E+21	6,261384E+22	1,153344E+22	7,414728E+22
-2335	3,130811E+22	3,130738E+22	5,766053E+21	5,766705E+21	6,261549E+22	1,153276E+22	7,414825E+22
-2334	3,130703E+22	3,130773E+22	5,766403E+21	5,765980E+21	6,261475E+22	1,153238E+22	7,414714E+22
-2333	3,130738E+22	3,130833E+22	5,766479E+21	5,766315E+21	6,261571E+22	1,153279E+22	7,414851E+22
-2332	3,130893E+22	3,130738E+22	5,765909E+21	5,766328E+21	6,261631E+22	1,153224E+22	7,414854E+22
-2331	3,130709E+22	3,130786E+22	5,766553E+21	5,766032E+21	6,261495E+22	1,153259E+22	7,414754E+22
-2330	3,130776E+22	3,130762E+22	5,766338E+21	5,766829E+21	6,261538E+22	1,153317E+22	7,414855E+22
-2329	3,130772E+22	3,130665E+22	5,766388E+21	5,766747E+21	6,261437E+22	1,153313E+22	7,414750E+22
-2328	3,130581E+22	3,130713E+22	5,767271E+21	5,766806E+21	6,261295E+22	1,153408E+22	7,414702E+22
-2327	3,130695E+22	3,130599E+22	5,766936E+21	5,767578E+21	6,261294E+22	1,153451E+22	7,414746E+22
-2326	3,130546E+22	3,130512E+22	5,767564E+21	5,767302E+21	6,261058E+22	1,153487E+22	7,414545E+22
-2325	3,130418E+22	3,130545E+22	5,768150E+21	5,767778E+21	6,260962E+22	1,153593E+22	7,414555E+22
-2324	3,130519E+22	3,130407E+22	5,767625E+21	5,768274E+21	6,260926E+22	1,153590E+22	7,414516E+22
-2323	3,130323E+22	3,130398E+22	5,768217E+21	5,767853E+21	6,260721E+22	1,153607E+22	7,414328E+22
-2322	3,130376E+22	3,130414E+22	5,768070E+21	5,768301E+21	6,260790E+22	1,153637E+22	7,414427E+22
-2321	3,130503E+22	3,130347E+22	5,767649E+21	5,768012E+21	6,260850E+22	1,153566E+22	7,414416E+22
-2320	3,130380E+22	3,130480E+22	5,768118E+21	5,767400E+21	6,260860E+22	1,153552E+22	7,414412E+22
-2319	3,130556E+22	3,130507E+22	5,767385E+21	5,767827E+21	6,261062E+22	1,153521E+22	7,414584E+22
-2318	3,130536E+22	3,130507E+22	5,767234E+21	5,767156E+21	6,261043E+22	1,153439E+22	7,414482E+22
-2317	3,130465E+22	3,130654E+22	5,767505E+21	5,766971E+21	6,261119E+22	1,153448E+22	7,414567E+22
-2316	3,130684E+22	3,130606E+22	5,766643E+21	5,767227E+21	6,261290E+22	1,153387E+22	7,414677E+22
-2315	3,130601E+22	3,130613E+22	5,766895E+21	5,766516E+21	6,261215E+22	1,153341E+22	7,414556E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2314	3,130632E+22	3,130687E+22	5,766958E+21	5,766832E+21	6,261320E+22	1,153379E+22	7,414699E+22
-2313	3,130761E+22	3,130616E+22	5,766431E+21	5,766979E+21	6,261376E+22	1,153341E+22	7,414717E+22
-2312	3,130576E+22	3,130675E+22	5,767092E+21	5,766632E+21	6,261251E+22	1,153372E+22	7,414624E+22
-2311	3,130645E+22	3,130648E+22	5,766957E+21	5,767455E+21	6,261293E+22	1,153441E+22	7,414734E+22
-2310	3,130613E+22	3,130514E+22	5,767082E+21	5,767375E+21	6,261127E+22	1,153446E+22	7,414573E+22
-2309	3,130430E+22	3,130561E+22	5,768056E+21	5,767408E+21	6,260992E+22	1,153546E+22	7,414538E+22
-2308	3,130537E+22	3,130446E+22	5,767741E+21	5,768271E+21	6,260983E+22	1,153601E+22	7,414584E+22
-2307	3,130375E+22	3,130337E+22	5,768190E+21	5,768063E+21	6,260711E+22	1,153625E+22	7,414337E+22
-2306	3,130250E+22	3,130374E+22	5,768693E+21	5,768466E+21	6,260625E+22	1,153716E+22	7,414341E+22
-2305	3,130369E+22	3,130249E+22	5,768178E+21	5,768925E+21	6,260618E+22	1,153710E+22	7,414329E+22
-2304	3,130217E+22	3,130264E+22	5,768744E+21	5,768298E+21	6,260481E+22	1,153704E+22	7,414185E+22
-2303	3,130294E+22	3,130307E+22	5,768612E+21	5,768711E+21	6,260601E+22	1,153732E+22	7,414333E+22
-2302	3,130375E+22	3,130240E+22	5,768186E+21	5,768463E+21	6,260615E+22	1,153665E+22	7,414280E+22
-2301	3,130239E+22	3,130393E+22	5,768655E+21	5,767881E+21	6,260632E+22	1,153654E+22	7,414285E+22
-2300	3,130411E+22	3,130408E+22	5,767937E+21	5,768377E+21	6,260819E+22	1,153631E+22	7,414450E+22
-2299	3,130404E+22	3,130370E+22	5,767664E+21	5,767724E+21	6,260775E+22	1,153539E+22	7,414314E+22
-2298	3,130358E+22	3,130508E+22	5,767935E+21	5,767436E+21	6,260865E+22	1,153537E+22	7,414402E+22
-2297	3,130582E+22	3,130471E+22	5,767145E+21	5,767739E+21	6,261052E+22	1,153488E+22	7,414541E+22
-2296	3,130508E+22	3,130498E+22	5,767388E+21	5,767005E+21	6,261006E+22	1,153439E+22	7,414445E+22
-2295	3,130518E+22	3,130583E+22	5,767475E+21	5,767416E+21	6,261101E+22	1,153489E+22	7,414591E+22
-2294	3,130597E+22	3,130486E+22	5,767013E+21	5,767638E+21	6,261083E+22	1,153465E+22	7,414548E+22
-2293	3,130424E+22	3,130542E+22	5,767772E+21	5,767248E+21	6,260966E+22	1,153502E+22	7,414468E+22
-2292	3,130500E+22	3,130503E+22	5,767735E+21	5,768068E+21	6,261003E+22	1,153580E+22	7,414583E+22
-2291	3,130475E+22	3,130344E+22	5,767770E+21	5,768031E+21	6,260819E+22	1,153580E+22	7,414399E+22
-2290	3,130278E+22	3,130392E+22	5,768704E+21	5,768041E+21	6,260670E+22	1,153674E+22	7,414344E+22
-2289	3,130357E+22	3,130297E+22	5,768383E+21	5,769001E+21	6,260654E+22	1,153738E+22	7,414392E+22
-2288	3,130220E+22	3,130192E+22	5,768770E+21	5,768720E+21	6,260412E+22	1,153749E+22	7,414161E+22
-2287	3,130115E+22	3,130235E+22	5,769271E+21	5,769071E+21	6,260350E+22	1,153834E+22	7,414184E+22
-2286	3,130225E+22	3,130101E+22	5,768794E+21	5,769483E+21	6,260327E+22	1,153828E+22	7,414154E+22
-2285	3,130100E+22	3,130137E+22	5,769388E+21	5,768785E+21	6,260237E+22	1,153817E+22	7,414054E+22
-2284	3,130169E+22	3,130198E+22	5,769252E+21	5,769254E+21	6,260367E+22	1,153851E+22	7,414217E+22
-2283	3,130234E+22	3,130117E+22	5,768648E+21	5,769063E+21	6,260351E+22	1,153771E+22	7,414123E+22
-2282	3,130102E+22	3,130261E+22	5,769065E+21	5,768412E+21	6,260363E+22	1,153748E+22	7,414110E+22
-2281	3,130282E+22	3,130285E+22	5,768385E+21	5,768882E+21	6,260567E+22	1,153727E+22	7,414294E+22
-2280	3,130318E+22	3,130250E+22	5,768102E+21	5,768111E+21	6,260568E+22	1,153621E+22	7,414189E+22
-2279	3,130283E+22	3,130398E+22	5,768402E+21	5,767849E+21	6,260682E+22	1,153625E+22	7,414307E+22
-2278	3,130455E+22	3,130357E+22	5,767662E+21	5,768251E+21	6,260812E+22	1,153591E+22	7,414403E+22
-2277	3,130373E+22	3,130396E+22	5,767947E+21	5,767572E+21	6,260769E+22	1,153552E+22	7,414321E+22
-2276	3,130378E+22	3,130471E+22	5,768107E+21	5,768054E+21	6,260850E+22	1,153616E+22	7,414466E+22
-2275	3,130454E+22	3,130335E+22	5,767594E+21	5,768282E+21	6,260789E+22	1,153588E+22	7,414377E+22
-2274	3,130294E+22	3,130377E+22	5,768409E+21	5,767828E+21	6,260670E+22	1,153624E+22	7,414294E+22
-2273	3,130357E+22	3,130347E+22	5,768444E+21	5,768696E+21	6,260705E+22	1,153714E+22	7,414419E+22
-2272	3,130326E+22	3,130197E+22	5,768432E+21	5,768683E+21	6,260523E+22	1,153712E+22	7,414235E+22
-2271	3,130115E+22	3,130250E+22	5,769321E+21	5,768766E+21	6,260365E+22	1,153809E+22	7,414173E+22
-2270	3,130161E+22	3,130130E+22	5,769027E+21	5,769739E+21	6,260292E+22	1,153877E+22	7,414168E+22
-2269	3,130062E+22	3,130035E+22	5,769443E+21	5,769354E+21	6,260098E+22	1,153880E+22	7,413977E+22
-2268	3,129990E+22	3,130087E+22	5,769968E+21	5,769654E+21	6,260077E+22	1,153962E+22	7,414039E+22
-2267	3,130106E+22	3,129952E+22	5,769373E+21	5,770053E+21	6,260058E+22	1,153943E+22	7,414001E+22
-2266	3,129978E+22	3,130008E+22	5,769893E+21	5,769315E+21	6,259986E+22	1,153921E+22	7,413907E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2265	3,130026E+22	3,130093E+22	5,769739E+21	5,769807E+21	6,260120E+22	1,153955E+22	7,414074E+22
-2264	3,130114E+22	3,130014E+22	5,769073E+21	5,769542E+21	6,260128E+22	1,153862E+22	7,413989E+22
-2263	3,129999E+22	3,130151E+22	5,769491E+21	5,768845E+21	6,260150E+22	1,153834E+22	7,413984E+22
-2262	3,130158E+22	3,130157E+22	5,768901E+21	5,769310E+21	6,260315E+22	1,153821E+22	7,414136E+22
-2261	3,130216E+22	3,130134E+22	5,768676E+21	5,768550E+21	6,260351E+22	1,153723E+22	7,414073E+22
-2260	3,130166E+22	3,130290E+22	5,768992E+21	5,768404E+21	6,260456E+22	1,153740E+22	7,414196E+22
-2259	3,130316E+22	3,130228E+22	5,768155E+21	5,768898E+21	6,260544E+22	1,153705E+22	7,414250E+22
-2258	3,130241E+22	3,130250E+22	5,768442E+21	5,768172E+21	6,260491E+22	1,153661E+22	7,414152E+22
-2257	3,130240E+22	3,130335E+22	5,768692E+21	5,768624E+21	6,260575E+22	1,153732E+22	7,414307E+22
-2256	3,130344E+22	3,130199E+22	5,768196E+21	5,768802E+21	6,260543E+22	1,153700E+22	7,414242E+22
-2255	3,130172E+22	3,130241E+22	5,769046E+21	5,768406E+21	6,260413E+22	1,153745E+22	7,414158E+22
-2254	3,130170E+22	3,130204E+22	5,769133E+21	5,769380E+21	6,260374E+22	1,153851E+22	7,414225E+22
-2253	3,130144E+22	3,130053E+22	5,769138E+21	5,769413E+21	6,260197E+22	1,153855E+22	7,414052E+22
-2252	3,129945E+22	3,130093E+22	5,770028E+21	5,769525E+21	6,260038E+22	1,153955E+22	7,413993E+22
-2251	3,130009E+22	3,129950E+22	5,769642E+21	5,770443E+21	6,259959E+22	1,154009E+22	7,413967E+22
-2250	3,129947E+22	3,129859E+22	5,770044E+21	5,769938E+21	6,259806E+22	1,153998E+22	7,413804E+22
-2249	3,129872E+22	3,129952E+22	5,770586E+21	5,770215E+21	6,259824E+22	1,154080E+22	7,413904E+22
-2248	3,129988E+22	3,129842E+22	5,769906E+21	5,770588E+21	6,259830E+22	1,154049E+22	7,413880E+22
-2247	3,129847E+22	3,129908E+22	5,770369E+21	5,769862E+21	6,259755E+22	1,154023E+22	7,413778E+22
-2246	3,129860E+22	3,129972E+22	5,770259E+21	5,770320E+21	6,259832E+22	1,154058E+22	7,413890E+22
-2245	3,129983E+22	3,129895E+22	5,769630E+21	5,769975E+21	6,259877E+22	1,153961E+22	7,413838E+22
-2244	3,129899E+22	3,130028E+22	5,770062E+21	5,769300E+21	6,259927E+22	1,153936E+22	7,413863E+22
-2243	3,130050E+22	3,130019E+22	5,769380E+21	5,769803E+21	6,260069E+22	1,153918E+22	7,413987E+22
-2242	3,130107E+22	3,130008E+22	5,769111E+21	5,769080E+21	6,260115E+22	1,153819E+22	7,413934E+22
-2241	3,130042E+22	3,130183E+22	5,769442E+21	5,768982E+21	6,260225E+22	1,153842E+22	7,414068E+22
-2240	3,130203E+22	3,130117E+22	5,768611E+21	5,769430E+21	6,260321E+22	1,153804E+22	7,414125E+22
-2239	3,130135E+22	3,130133E+22	5,768949E+21	5,768691E+21	6,260268E+22	1,153764E+22	7,414032E+22
-2238	3,130095E+22	3,130194E+22	5,769354E+21	5,769152E+21	6,260288E+22	1,153851E+22	7,414139E+22
-2237	3,130197E+22	3,130064E+22	5,768941E+21	5,769396E+21	6,260261E+22	1,153834E+22	7,414095E+22
-2236	3,130006E+22	3,130096E+22	5,769790E+21	5,769156E+21	6,260102E+22	1,153895E+22	7,413997E+22
-2235	3,129980E+22	3,130025E+22	5,769774E+21	5,770188E+21	6,260005E+22	1,153996E+22	7,414001E+22
-2234	3,129984E+22	3,129861E+22	5,769756E+21	5,770154E+21	6,259845E+22	1,153991E+22	7,413836E+22
-2233	3,129807E+22	3,129923E+22	5,770661E+21	5,770171E+21	6,259730E+22	1,154083E+22	7,413813E+22
-2232	3,129908E+22	3,129802E+22	5,770256E+21	5,770987E+21	6,259710E+22	1,154124E+22	7,413834E+22
-2231	3,129841E+22	3,129740E+22	5,770625E+21	5,770468E+21	6,259581E+22	1,154109E+22	7,413690E+22
-2230	3,129703E+22	3,129842E+22	5,771207E+21	5,770775E+21	6,259545E+22	1,154198E+22	7,413744E+22
-2229	3,129825E+22	3,129741E+22	5,770536E+21	5,771144E+21	6,259567E+22	1,154168E+22	7,413735E+22
-2228	3,129695E+22	3,129787E+22	5,770976E+21	5,770437E+21	6,259482E+22	1,154141E+22	7,413623E+22
-2227	3,129717E+22	3,129820E+22	5,770773E+21	5,770845E+21	6,259537E+22	1,154162E+22	7,413699E+22
-2226	3,129884E+22	3,129734E+22	5,770117E+21	5,770447E+21	6,259617E+22	1,154056E+22	7,413674E+22
-2225	3,129799E+22	3,129901E+22	5,770525E+21	5,769799E+21	6,259700E+22	1,154032E+22	7,413732E+22
-2224	3,129955E+22	3,129916E+22	5,769774E+21	5,770326E+21	6,259871E+22	1,154010E+22	7,413881E+22
-2223	3,130003E+22	3,129910E+22	5,769485E+21	5,769607E+21	6,259913E+22	1,153909E+22	7,413822E+22
-2222	3,129900E+22	3,130070E+22	5,769952E+21	5,769478E+21	6,259970E+22	1,153943E+22	7,413913E+22
-2221	3,130081E+22	3,130005E+22	5,769244E+21	5,769871E+21	6,260086E+22	1,153912E+22	7,413998E+22
-2220	3,130015E+22	3,130006E+22	5,769651E+21	5,769240E+21	6,260021E+22	1,153889E+22	7,413910E+22
-2219	3,129937E+22	3,130040E+22	5,770007E+21	5,769790E+21	6,259977E+22	1,153980E+22	7,413957E+22
-2218	3,130037E+22	3,129898E+22	5,769562E+21	5,770116E+21	6,259935E+22	1,153968E+22	7,413903E+22
-2217	3,129842E+22	3,129938E+22	5,770398E+21	5,769912E+21	6,259780E+22	1,154031E+22	7,413811E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2216	3,129844E+22	3,129863E+22	5,770354E+21	5,770872E+21	6,259707E+22	1,154123E+22	7,413829E+22
-2215	3,129868E+22	3,129709E+22	5,770345E+21	5,770762E+21	6,259577E+22	1,154111E+22	7,413688E+22
-2214	3,129665E+22	3,129775E+22	5,771368E+21	5,770743E+21	6,259440E+22	1,154211E+22	7,413651E+22
-2213	3,129761E+22	3,129684E+22	5,771020E+21	5,771560E+21	6,259444E+22	1,154258E+22	7,413702E+22
-2212	3,129677E+22	3,129627E+22	5,771339E+21	5,771165E+21	6,259304E+22	1,154250E+22	7,413554E+22
-2211	3,129515E+22	3,129689E+22	5,771794E+21	5,771444E+21	6,259204E+22	1,154324E+22	7,413528E+22
-2210	3,129672E+22	3,129572E+22	5,771071E+21	5,771730E+21	6,259244E+22	1,154280E+22	7,413524E+22
-2209	3,129577E+22	3,129634E+22	5,771468E+21	5,770944E+21	6,259210E+22	1,154241E+22	7,413451E+22
-2208	3,129636E+22	3,129681E+22	5,771206E+21	5,771282E+21	6,259317E+22	1,154249E+22	7,413566E+22
-2207	3,129804E+22	3,129632E+22	5,770492E+21	5,770889E+21	6,259436E+22	1,154138E+22	7,413574E+22
-2206	3,129673E+22	3,129809E+22	5,770960E+21	5,770280E+21	6,259482E+22	1,154124E+22	7,413606E+22
-2205	3,129833E+22	3,129836E+22	5,770295E+21	5,770787E+21	6,259668E+22	1,154108E+22	7,413777E+22
-2204	3,129884E+22	3,129814E+22	5,770053E+21	5,770129E+21	6,259699E+22	1,154018E+22	7,413717E+22
-2203	3,129763E+22	3,129929E+22	5,770533E+21	5,769980E+21	6,259692E+22	1,154051E+22	7,413744E+22
-2202	3,129961E+22	3,129846E+22	5,769880E+21	5,770409E+21	6,259807E+22	1,154029E+22	7,413836E+22
-2201	3,129874E+22	3,129861E+22	5,770288E+21	5,769893E+21	6,259735E+22	1,154018E+22	7,413753E+22
-2200	3,129791E+22	3,129892E+22	5,770581E+21	5,770510E+21	6,259683E+22	1,154109E+22	7,413792E+22
-2199	3,129889E+22	3,129748E+22	5,770102E+21	5,770831E+21	6,259637E+22	1,154093E+22	7,413730E+22
-2198	3,129675E+22	3,129777E+22	5,771039E+21	5,770574E+21	6,259452E+22	1,154161E+22	7,413613E+22
-2197	3,129710E+22	3,129720E+22	5,771098E+21	5,771443E+21	6,259430E+22	1,154254E+22	7,413684E+22
-2196	3,129736E+22	3,129573E+22	5,771118E+21	5,771394E+21	6,259309E+22	1,154251E+22	7,413560E+22
-2195	3,129493E+22	3,129627E+22	5,772071E+21	5,771410E+21	6,259120E+22	1,154348E+22	7,413468E+22
-2194	3,129593E+22	3,129530E+22	5,771670E+21	5,772248E+21	6,259123E+22	1,154392E+22	7,413515E+22
-2193	3,129507E+22	3,129481E+22	5,771923E+21	5,771841E+21	6,258988E+22	1,154376E+22	7,413365E+22
-2192	3,129383E+22	3,129538E+22	5,772276E+21	5,772021E+21	6,258921E+22	1,154430E+22	7,413351E+22
-2191	3,129572E+22	3,129429E+22	5,771504E+21	5,772191E+21	6,259001E+22	1,154369E+22	7,413370E+22
-2190	3,129465E+22	3,129502E+22	5,771972E+21	5,771380E+21	6,258968E+22	1,154335E+22	7,413303E+22
-2189	3,129532E+22	3,129588E+22	5,771753E+21	5,771717E+21	6,259120E+22	1,154347E+22	7,413467E+22
-2188	3,129683E+22	3,129551E+22	5,771018E+21	5,771443E+21	6,259234E+22	1,154246E+22	7,413480E+22
-2187	3,129528E+22	3,129691E+22	5,771441E+21	5,770818E+21	6,259220E+22	1,154226E+22	7,413446E+22
-2186	3,129713E+22	3,129698E+22	5,770817E+21	5,771266E+21	6,259412E+22	1,154208E+22	7,413620E+22
-2185	3,129773E+22	3,129685E+22	5,770602E+21	5,770613E+21	6,259459E+22	1,154121E+22	7,413580E+22
-2184	3,129661E+22	3,129793E+22	5,771063E+21	5,770497E+21	6,259454E+22	1,154156E+22	7,413610E+22
-2183	3,129835E+22	3,129724E+22	5,770383E+21	5,770992E+21	6,259559E+22	1,154137E+22	7,413697E+22
-2182	3,129707E+22	3,129729E+22	5,770870E+21	5,770571E+21	6,259436E+22	1,154144E+22	7,413580E+22
-2181	3,129633E+22	3,129760E+22	5,771247E+21	5,771159E+21	6,259393E+22	1,154241E+22	7,413633E+22
-2180	3,129744E+22	3,129609E+22	5,770806E+21	5,771533E+21	6,259353E+22	1,154234E+22	7,413586E+22
-2179	3,129524E+22	3,129598E+22	5,771735E+21	5,771220E+21	6,259122E+22	1,154296E+22	7,413417E+22
-2178	3,129572E+22	3,129544E+22	5,771839E+21	5,772090E+21	6,259116E+22	1,154393E+22	7,413508E+22
-2177	3,129577E+22	3,129429E+22	5,771817E+21	5,772117E+21	6,259006E+22	1,154393E+22	7,413400E+22
-2176	3,129331E+22	3,129476E+22	5,772666E+21	5,772137E+21	6,258808E+22	1,154480E+22	7,413288E+22
-2175	3,129437E+22	3,129382E+22	5,772194E+21	5,772874E+21	6,258819E+22	1,154507E+22	7,413325E+22
-2174	3,129350E+22	3,129326E+22	5,772500E+21	5,772385E+21	6,258677E+22	1,154488E+22	7,413165E+22
-2173	3,129265E+22	3,129405E+22	5,772894E+21	5,772448E+21	6,258670E+22	1,154534E+22	7,413204E+22
-2172	3,129464E+22	3,129320E+22	5,772098E+21	5,772688E+21	6,258785E+22	1,154479E+22	7,413263E+22
-2171	3,129330E+22	3,129383E+22	5,772472E+21	5,771906E+21	6,258714E+22	1,154438E+22	7,413151E+22
-2170	3,129410E+22	3,129472E+22	5,772244E+21	5,772261E+21	6,258882E+22	1,154451E+22	7,413332E+22
-2169	3,129557E+22	3,129448E+22	5,771493E+21	5,771977E+21	6,259005E+22	1,154347E+22	7,413352E+22
-2168	3,129427E+22	3,129571E+22	5,771880E+21	5,771310E+21	6,258998E+22	1,154319E+22	7,413317E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2167	3,129618E+22	3,129576E+22	5,771272E+21	5,771681E+21	6,259194E+22	1,154295E+22	7,413490E+22
-2166	3,129644E+22	3,129560E+22	5,771173E+21	5,771120E+21	6,259204E+22	1,154229E+22	7,413433E+22
-2165	3,129525E+22	3,129682E+22	5,771689E+21	5,771077E+21	6,259207E+22	1,154277E+22	7,413484E+22
-2164	3,129678E+22	3,129604E+22	5,771006E+21	5,771709E+21	6,259282E+22	1,154272E+22	7,413554E+22
-2163	3,129534E+22	3,129560E+22	5,771471E+21	5,771275E+21	6,259094E+22	1,154275E+22	7,413368E+22
-2162	3,129500E+22	3,129576E+22	5,771897E+21	5,771801E+21	6,259077E+22	1,154370E+22	7,413446E+22
-2161	3,129613E+22	3,129448E+22	5,771493E+21	5,772155E+21	6,259062E+22	1,154365E+22	7,413427E+22
-2160	3,129401E+22	3,129446E+22	5,772377E+21	5,771874E+21	6,258847E+22	1,154425E+22	7,413272E+22
-2159	3,129424E+22	3,129411E+22	5,772436E+21	5,772724E+21	6,258835E+22	1,154516E+22	7,413351E+22
-2158	3,129392E+22	3,129295E+22	5,772473E+21	5,772806E+21	6,258687E+22	1,154528E+22	7,413215E+22
-2157	3,129164E+22	3,129344E+22	5,773347E+21	5,772748E+21	6,258508E+22	1,154609E+22	7,413117E+22
-2156	3,129284E+22	3,129245E+22	5,772857E+21	5,773481E+21	6,258529E+22	1,154634E+22	7,413163E+22
-2155	3,129205E+22	3,129156E+22	5,773114E+21	5,772937E+21	6,258361E+22	1,154605E+22	7,412967E+22
-2154	3,129152E+22	3,129246E+22	5,773489E+21	5,773000E+21	6,258398E+22	1,154649E+22	7,413047E+22
-2153	3,129337E+22	3,129207E+22	5,772630E+21	5,773292E+21	6,258544E+22	1,154592E+22	7,413136E+22
-2152	3,129216E+22	3,129267E+22	5,772879E+21	5,772506E+21	6,258483E+22	1,154538E+22	7,413021E+22
-2151	3,129300E+22	3,129361E+22	5,772615E+21	5,772721E+21	6,258662E+22	1,154534E+22	7,413195E+22
-2150	3,129440E+22	3,129336E+22	5,771971E+21	5,772396E+21	6,258776E+22	1,154437E+22	7,413213E+22
-2149	3,129326E+22	3,129464E+22	5,772448E+21	5,771678E+21	6,258789E+22	1,154413E+22	7,413202E+22
-2148	3,129496E+22	3,129480E+22	5,771865E+21	5,772186E+21	6,258976E+22	1,154405E+22	7,413381E+22
-2147	3,129486E+22	3,129423E+22	5,771730E+21	5,771732E+21	6,258909E+22	1,154346E+22	7,413255E+22
-2146	3,129379E+22	3,129526E+22	5,772264E+21	5,771747E+21	6,258905E+22	1,154401E+22	7,413306E+22
-2145	3,129533E+22	3,129460E+22	5,771595E+21	5,772390E+21	6,258992E+22	1,154399E+22	7,413391E+22
-2144	3,129419E+22	3,129395E+22	5,772023E+21	5,771917E+21	6,258814E+22	1,154394E+22	7,413208E+22
-2143	3,129390E+22	3,129423E+22	5,772483E+21	5,772341E+21	6,258813E+22	1,154482E+22	7,413295E+22
-2142	3,129465E+22	3,129311E+22	5,772209E+21	5,772782E+21	6,258775E+22	1,154499E+22	7,413275E+22
-2141	3,129234E+22	3,129325E+22	5,773139E+21	5,772550E+21	6,258559E+22	1,154569E+22	7,413128E+22
-2140	3,129234E+22	3,129286E+22	5,773175E+21	5,773475E+21	6,258520E+22	1,154665E+22	7,413185E+22
-2139	3,129193E+22	3,129115E+22	5,773164E+21	5,773519E+21	6,258308E+22	1,154668E+22	7,412977E+22
-2138	3,129017E+22	3,129151E+22	5,774017E+21	5,773381E+21	6,258168E+22	1,154740E+22	7,412908E+22
-2137	3,129152E+22	3,129084E+22	5,773488E+21	5,774070E+21	6,258236E+22	1,154756E+22	7,412992E+22
-2136	3,129099E+22	3,129010E+22	5,773609E+21	5,773540E+21	6,258109E+22	1,154715E+22	7,412824E+22
-2135	3,129043E+22	3,129133E+22	5,773893E+21	5,773523E+21	6,258176E+22	1,154742E+22	7,412918E+22
-2134	3,129202E+22	3,129111E+22	5,773103E+21	5,773814E+21	6,258313E+22	1,154692E+22	7,413004E+22
-2133	3,129103E+22	3,129182E+22	5,773385E+21	5,772937E+21	6,258285E+22	1,154632E+22	7,412917E+22
-2132	3,129188E+22	3,129268E+22	5,773145E+21	5,773126E+21	6,258456E+22	1,154627E+22	7,413084E+22
-2131	3,129310E+22	3,129197E+22	5,772524E+21	5,772828E+21	6,258508E+22	1,154535E+22	7,413043E+22
-2130	3,129210E+22	3,129318E+22	5,773017E+21	5,772216E+21	6,258529E+22	1,154523E+22	7,413052E+22
-2129	3,129348E+22	3,129355E+22	5,772419E+21	5,772829E+21	6,258703E+22	1,154525E+22	7,413227E+22
-2128	3,129355E+22	3,129275E+22	5,772192E+21	5,772431E+21	6,258629E+22	1,154462E+22	7,413092E+22
-2127	3,129263E+22	3,129375E+22	5,772712E+21	5,772310E+21	6,258638E+22	1,154502E+22	7,413140E+22
-2126	3,129408E+22	3,129317E+22	5,772198E+21	5,772931E+21	6,258725E+22	1,154513E+22	7,413238E+22
-2125	3,129306E+22	3,129271E+22	5,772715E+21	5,772440E+21	6,258577E+22	1,154516E+22	7,413093E+22
-2124	3,129240E+22	3,129315E+22	5,773214E+21	5,772975E+21	6,258555E+22	1,154619E+22	7,413174E+22
-2123	3,129268E+22	3,129163E+22	5,772940E+21	5,773521E+21	6,258431E+22	1,154646E+22	7,413077E+22
-2122	3,129053E+22	3,129151E+22	5,773871E+21	5,773334E+21	6,258204E+22	1,154721E+22	7,412924E+22
-2121	3,129051E+22	3,129120E+22	5,773880E+21	5,774218E+21	6,258171E+22	1,154810E+22	7,412980E+22
-2120	3,129058E+22	3,128924E+22	5,773755E+21	5,774210E+21	6,257982E+22	1,154796E+22	7,412778E+22
-2119	3,128908E+22	3,128978E+22	5,774538E+21	5,773929E+21	6,257885E+22	1,154847E+22	7,412732E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2118	3,129026E+22	3,128953E+22	5,774069E+21	5,774654E+21	6,257979E+22	1,154872E+22	7,412851E+22
-2117	3,128973E+22	3,128912E+22	5,774165E+21	5,774086E+21	6,257885E+22	1,154825E+22	7,412711E+22
-2116	3,128907E+22	3,129047E+22	5,774427E+21	5,774054E+21	6,257954E+22	1,154848E+22	7,412802E+22
-2115	3,129057E+22	3,128980E+22	5,773642E+21	5,774272E+21	6,258037E+22	1,154791E+22	7,412829E+22
-2114	3,128992E+22	3,129037E+22	5,773944E+21	5,773363E+21	6,258029E+22	1,154731E+22	7,412760E+22
-2113	3,129066E+22	3,129148E+22	5,773707E+21	5,773575E+21	6,258214E+22	1,154728E+22	7,412942E+22
-2112	3,129195E+22	3,129065E+22	5,772976E+21	5,773391E+21	6,258260E+22	1,154637E+22	7,412897E+22
-2111	3,129092E+22	3,129191E+22	5,773403E+21	5,772766E+21	6,258284E+22	1,154617E+22	7,412900E+22
-2110	3,129212E+22	3,129235E+22	5,772915E+21	5,773425E+21	6,258447E+22	1,154634E+22	7,413081E+22
-2109	3,129240E+22	3,129160E+22	5,772746E+21	5,772968E+21	6,258400E+22	1,154571E+22	7,412972E+22
-2108	3,129148E+22	3,129261E+22	5,773330E+21	5,772839E+21	6,258409E+22	1,154617E+22	7,413026E+22
-2107	3,129263E+22	3,129165E+22	5,772909E+21	5,773509E+21	6,258427E+22	1,154642E+22	7,413069E+22
-2106	3,129157E+22	3,129117E+22	5,773466E+21	5,773156E+21	6,258274E+22	1,154662E+22	7,412936E+22
-2105	3,129047E+22	3,129174E+22	5,773954E+21	5,773762E+21	6,258221E+22	1,154772E+22	7,412992E+22
-2104	3,129092E+22	3,128983E+22	5,773576E+21	5,774348E+21	6,258075E+22	1,154792E+22	7,412867E+22
-2103	3,128907E+22	3,128960E+22	5,774442E+21	5,773991E+21	6,257867E+22	1,154843E+22	7,412710E+22
-2102	3,128908E+22	3,128946E+22	5,774532E+21	5,774805E+21	6,257854E+22	1,154934E+22	7,412787E+22
-2101	3,128943E+22	3,128787E+22	5,774404E+21	5,774745E+21	6,257730E+22	1,154915E+22	7,412645E+22
-2100	3,128779E+22	3,128873E+22	5,775134E+21	5,774491E+21	6,257652E+22	1,154962E+22	7,412615E+22
-2099	3,128861E+22	3,128829E+22	5,774671E+21	5,775242E+21	6,257690E+22	1,154991E+22	7,412681E+22
-2098	3,128835E+22	3,128787E+22	5,774746E+21	5,774672E+21	6,257622E+22	1,154942E+22	7,412563E+22
-2097	3,128763E+22	3,128931E+22	5,774996E+21	5,774554E+21	6,257694E+22	1,154955E+22	7,412649E+22
-2096	3,128947E+22	3,128835E+22	5,774123E+21	5,774757E+21	6,257782E+22	1,154888E+22	7,412670E+22
-2095	3,128897E+22	3,128894E+22	5,774373E+21	5,773789E+21	6,257790E+22	1,154816E+22	7,412607E+22
-2094	3,128937E+22	3,129033E+22	5,774201E+21	5,774106E+21	6,257970E+22	1,154831E+22	7,412800E+22
-2093	3,129071E+22	3,128966E+22	5,773457E+21	5,773959E+21	6,258037E+22	1,154742E+22	7,412779E+22
-2092	3,128968E+22	3,129089E+22	5,773877E+21	5,773339E+21	6,258057E+22	1,154722E+22	7,412779E+22
-2091	3,129078E+22	3,129089E+22	5,773486E+21	5,773956E+21	6,258167E+22	1,154744E+22	7,412912E+22
-2090	3,129134E+22	3,129010E+22	5,773384E+21	5,773504E+21	6,258144E+22	1,154689E+22	7,412833E+22
-2089	3,129012E+22	3,129134E+22	5,774030E+21	5,773421E+21	6,258146E+22	1,154745E+22	7,412891E+22
-2088	3,129115E+22	3,129017E+22	5,773542E+21	5,774219E+21	6,258132E+22	1,154776E+22	7,412909E+22
-2087	3,128997E+22	3,128961E+22	5,774056E+21	5,773862E+21	6,257958E+22	1,154792E+22	7,412750E+22
-2086	3,128870E+22	3,129020E+22	5,774628E+21	5,774489E+21	6,257890E+22	1,154912E+22	7,412802E+22
-2085	3,128942E+22	3,128827E+22	5,774255E+21	5,774982E+21	6,257769E+22	1,154924E+22	7,412693E+22
-2084	3,128771E+22	3,128807E+22	5,775113E+21	5,774579E+21	6,257578E+22	1,154969E+22	7,412547E+22
-2083	3,128756E+22	3,128773E+22	5,775255E+21	5,775412E+21	6,257529E+22	1,155067E+22	7,412596E+22
-2082	3,128794E+22	3,128640E+22	5,775102E+21	5,775426E+21	6,257433E+22	1,155053E+22	7,412486E+22
-2081	3,128607E+22	3,128756E+22	5,775784E+21	5,775178E+21	6,257363E+22	1,155096E+22	7,412459E+22
-2080	3,128715E+22	3,128681E+22	5,775209E+21	5,775889E+21	6,257396E+22	1,155110E+22	7,412506E+22
-2079	3,128718E+22	3,128638E+22	5,775203E+21	5,775140E+21	6,257356E+22	1,155034E+22	7,412390E+22
-2078	3,128645E+22	3,128802E+22	5,775512E+21	5,774982E+21	6,257447E+22	1,155049E+22	7,412497E+22
-2077	3,128841E+22	3,128731E+22	5,774619E+21	5,775178E+21	6,257572E+22	1,154980E+22	7,412552E+22
-2076	3,128780E+22	3,128806E+22	5,774820E+21	5,774289E+21	6,257586E+22	1,154911E+22	7,412497E+22
-2075	3,128792E+22	3,128909E+22	5,774708E+21	5,774663E+21	6,257702E+22	1,154937E+22	7,412639E+22
-2074	3,128952E+22	3,128842E+22	5,773992E+21	5,774542E+21	6,257793E+22	1,154853E+22	7,412647E+22
-2073	3,128846E+22	3,128971E+22	5,774443E+21	5,773871E+21	6,257817E+22	1,154831E+22	7,412648E+22
-2072	3,128975E+22	3,128939E+22	5,774042E+21	5,774502E+21	6,257914E+22	1,154854E+22	7,412768E+22
-2071	3,129028E+22	3,128864E+22	5,773939E+21	5,774049E+21	6,257892E+22	1,154799E+22	7,412691E+22
-2070	3,128853E+22	3,129006E+22	5,774686E+21	5,774079E+21	6,257858E+22	1,154876E+22	7,412735E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2069	3,128947E+22	3,128893E+22	5,774207E+21	5,774911E+21	6,257840E+22	1,154912E+22	7,412752E+22
-2068	3,128834E+22	3,128816E+22	5,774710E+21	5,774548E+21	6,257650E+22	1,154926E+22	7,412576E+22
-2067	3,128694E+22	3,128829E+22	5,775363E+21	5,775131E+21	6,257523E+22	1,155049E+22	7,412572E+22
-2066	3,128799E+22	3,128648E+22	5,775001E+21	5,775633E+21	6,257447E+22	1,155063E+22	7,412510E+22
-2065	3,128615E+22	3,128659E+22	5,775831E+21	5,775252E+21	6,257274E+22	1,155108E+22	7,412382E+22
-2064	3,128604E+22	3,128618E+22	5,775866E+21	5,776149E+21	6,257223E+22	1,155201E+22	7,412424E+22
-2063	3,128651E+22	3,128495E+22	5,775632E+21	5,776081E+21	6,257146E+22	1,155171E+22	7,412317E+22
-2062	3,128456E+22	3,128630E+22	5,776356E+21	5,775777E+21	6,257086E+22	1,155213E+22	7,412299E+22
-2061	3,128594E+22	3,128564E+22	5,775759E+21	5,776352E+21	6,257157E+22	1,155211E+22	7,412368E+22
-2060	3,128610E+22	3,128522E+22	5,775722E+21	5,775564E+21	6,257132E+22	1,155129E+22	7,412260E+22
-2059	3,128509E+22	3,128663E+22	5,776083E+21	5,775464E+21	6,257173E+22	1,155155E+22	7,412327E+22
-2058	3,128706E+22	3,128613E+22	5,775161E+21	5,775758E+21	6,257319E+22	1,155092E+22	7,412411E+22
-2057	3,128636E+22	3,128697E+22	5,775336E+21	5,774898E+21	6,257334E+22	1,155023E+22	7,412357E+22
-2056	3,128681E+22	3,128763E+22	5,775167E+21	5,775246E+21	6,257444E+22	1,155041E+22	7,412485E+22
-2055	3,128862E+22	3,128697E+22	5,774445E+21	5,774981E+21	6,257558E+22	1,154943E+22	7,412501E+22
-2054	3,128743E+22	3,128852E+22	5,775006E+21	5,774331E+21	6,257596E+22	1,154934E+22	7,412529E+22
-2053	3,128859E+22	3,128836E+22	5,774637E+21	5,774983E+21	6,257695E+22	1,154962E+22	7,412658E+22
-2052	3,128877E+22	3,128765E+22	5,774536E+21	5,774658E+21	6,257642E+22	1,154919E+22	7,412562E+22
-2051	3,128664E+22	3,128855E+22	5,775383E+21	5,774785E+21	6,257519E+22	1,155017E+22	7,412536E+22
-2050	3,128770E+22	3,128731E+22	5,774933E+21	5,775643E+21	6,257501E+22	1,155058E+22	7,412559E+22
-2049	3,128666E+22	3,128649E+22	5,775445E+21	5,775255E+21	6,257315E+22	1,155070E+22	7,412385E+22
-2048	3,128558E+22	3,128626E+22	5,776040E+21	5,775840E+21	6,257184E+22	1,155188E+22	7,412372E+22
-2047	3,128667E+22	3,128470E+22	5,775625E+21	5,776314E+21	6,257137E+22	1,155194E+22	7,412331E+22
-2046	3,128455E+22	3,128524E+22	5,776467E+21	5,775988E+21	6,256979E+22	1,155246E+22	7,412225E+22
-2045	3,128453E+22	3,128498E+22	5,776469E+21	5,776805E+21	6,256952E+22	1,155327E+22	7,412279E+22
-2044	3,128512E+22	3,128377E+22	5,776203E+21	5,776641E+21	6,256890E+22	1,155284E+22	7,412174E+22
-2043	3,128309E+22	3,128476E+22	5,776993E+21	5,776257E+21	6,256785E+22	1,155325E+22	7,412110E+22
-2042	3,128465E+22	3,128429E+22	5,776391E+21	5,776820E+21	6,256894E+22	1,155321E+22	7,412215E+22
-2041	3,128469E+22	3,128408E+22	5,776300E+21	5,776095E+21	6,256877E+22	1,155240E+22	7,412117E+22
-2040	3,128378E+22	3,128525E+22	5,776544E+21	5,776074E+21	6,256903E+22	1,155262E+22	7,412165E+22
-2039	3,128595E+22	3,128482E+22	5,775564E+21	5,776313E+21	6,257077E+22	1,155188E+22	7,412265E+22
-2038	3,128526E+22	3,128584E+22	5,775782E+21	5,775408E+21	6,257110E+22	1,155119E+22	7,412229E+22
-2037	3,128594E+22	3,128658E+22	5,775644E+21	5,775648E+21	6,257252E+22	1,155129E+22	7,412381E+22
-2036	3,128773E+22	3,128596E+22	5,774961E+21	5,775392E+21	6,257368E+22	1,155035E+22	7,412404E+22
-2035	3,128596E+22	3,128722E+22	5,775654E+21	5,774880E+21	6,257318E+22	1,155053E+22	7,412371E+22
-2034	3,128686E+22	3,128718E+22	5,775315E+21	5,775660E+21	6,257403E+22	1,155097E+22	7,412501E+22
-2033	3,128690E+22	3,128627E+22	5,775222E+21	5,775419E+21	6,257317E+22	1,155064E+22	7,412381E+22
-2032	3,128505E+22	3,128658E+22	5,776016E+21	5,775542E+21	6,257163E+22	1,155156E+22	7,412319E+22
-2031	3,128641E+22	3,128532E+22	5,775542E+21	5,776285E+21	6,257173E+22	1,155183E+22	7,412355E+22
-2030	3,128533E+22	3,128482E+22	5,776098E+21	5,775908E+21	6,257016E+22	1,155201E+22	7,412216E+22
-2029	3,128429E+22	3,128492E+22	5,776670E+21	5,776479E+21	6,256921E+22	1,155315E+22	7,412235E+22
-2028	3,128520E+22	3,128357E+22	5,776242E+21	5,776974E+21	6,256877E+22	1,155322E+22	7,412199E+22
-2027	3,128279E+22	3,128382E+22	5,777175E+21	5,776666E+21	6,256661E+22	1,155384E+22	7,412045E+22
-2026	3,128288E+22	3,128366E+22	5,777185E+21	5,777404E+21	6,256654E+22	1,155459E+22	7,412112E+22
-2025	3,128357E+22	3,128241E+22	5,776902E+21	5,777205E+21	6,256598E+22	1,155411E+22	7,412008E+22
-2024	3,128181E+22	3,128299E+22	5,777592E+21	5,776834E+21	6,256480E+22	1,155443E+22	7,411922E+22
-2023	3,128335E+22	3,128274E+22	5,776896E+21	5,777373E+21	6,256609E+22	1,155427E+22	7,412035E+22
-2022	3,128329E+22	3,128291E+22	5,776774E+21	5,776715E+21	6,256619E+22	1,155349E+22	7,411968E+22
-2021	3,128269E+22	3,128412E+22	5,776960E+21	5,776603E+21	6,256680E+22	1,155356E+22	7,412037E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2020	3,128499E+22	3,128379E+22	5,775987E+21	5,776736E+21	6,256878E+22	1,155272E+22	7,412150E+22
-2019	3,128419E+22	3,128458E+22	5,776318E+21	5,775819E+21	6,256877E+22	1,155214E+22	7,412091E+22
-2018	3,128478E+22	3,128554E+22	5,776241E+21	5,776074E+21	6,257032E+22	1,155232E+22	7,412264E+22
-2017	3,128625E+22	3,128500E+22	5,775580E+21	5,775961E+21	6,257124E+22	1,155154E+22	7,412278E+22
-2016	3,128442E+22	3,128570E+22	5,776226E+21	5,775586E+21	6,257012E+22	1,155181E+22	7,412193E+22
-2015	3,128532E+22	3,128555E+22	5,775873E+21	5,776340E+21	6,257087E+22	1,155221E+22	7,412308E+22
-2014	3,128542E+22	3,128470E+22	5,775823E+21	5,776106E+21	6,257013E+22	1,155193E+22	7,412206E+22
-2013	3,128392E+22	3,128495E+22	5,776611E+21	5,776137E+21	6,256887E+22	1,155275E+22	7,412161E+22
-2012	3,128528E+22	3,128386E+22	5,776172E+21	5,776871E+21	6,256914E+22	1,155304E+22	7,412218E+22
-2011	3,128373E+22	3,128330E+22	5,776826E+21	5,776600E+21	6,256703E+22	1,155343E+22	7,412045E+22
-2010	3,128248E+22	3,128368E+22	5,777420E+21	5,777205E+21	6,256616E+22	1,155462E+22	7,412078E+22
-2009	3,128335E+22	3,128226E+22	5,777005E+21	5,777710E+21	6,256561E+22	1,155472E+22	7,412032E+22
-2008	3,128118E+22	3,128197E+22	5,777863E+21	5,777351E+21	6,256315E+22	1,155521E+22	7,411836E+22
-2007	3,128151E+22	3,128188E+22	5,777804E+21	5,777952E+21	6,256339E+22	1,155576E+22	7,411914E+22
-2006	3,128218E+22	3,128092E+22	5,777485E+21	5,777770E+21	6,256310E+22	1,155526E+22	7,411836E+22
-2005	3,128056E+22	3,128171E+22	5,778064E+21	5,777388E+21	6,256228E+22	1,155545E+22	7,411773E+22
-2004	3,128215E+22	3,128168E+22	5,777316E+21	5,777911E+21	6,256383E+22	1,155523E+22	7,411906E+22
-2003	3,128195E+22	3,128166E+22	5,777269E+21	5,777254E+21	6,256361E+22	1,155452E+22	7,411814E+22
-2002	3,128154E+22	3,128312E+22	5,777483E+21	5,777048E+21	6,256466E+22	1,155453E+22	7,411919E+22
-2001	3,128391E+22	3,128277E+22	5,776565E+21	5,777167E+21	6,256668E+22	1,155373E+22	7,412041E+22
-2000	3,128313E+22	3,128313E+22	5,776862E+21	5,776338E+21	6,256626E+22	1,155320E+22	7,411946E+22
-1999	3,128346E+22	3,128421E+22	5,776762E+21	5,776630E+21	6,256767E+22	1,155339E+22	7,412106E+22
-1998	3,128465E+22	3,128377E+22	5,776123E+21	5,776638E+21	6,256842E+22	1,155276E+22	7,412118E+22
-1997	3,128311E+22	3,128425E+22	5,776749E+21	5,776229E+21	6,256736E+22	1,155298E+22	7,412033E+22
-1996	3,128413E+22	3,128407E+22	5,776429E+21	5,776890E+21	6,256820E+22	1,155332E+22	7,412152E+22
-1995	3,128409E+22	3,128303E+22	5,776510E+21	5,776688E+21	6,256711E+22	1,155320E+22	7,412031E+22
-1994	3,128250E+22	3,128361E+22	5,777334E+21	5,776735E+21	6,256610E+22	1,155407E+22	7,412017E+22
-1993	3,128356E+22	3,128267E+22	5,776935E+21	5,777593E+21	6,256623E+22	1,155453E+22	7,412076E+22
-1992	3,128200E+22	3,128164E+22	5,777535E+21	5,777419E+21	6,256365E+22	1,155495E+22	7,411860E+22
-1991	3,128076E+22	3,128198E+22	5,778099E+21	5,777918E+21	6,256274E+22	1,155602E+22	7,411876E+22
-1990	3,128169E+22	3,128070E+22	5,777688E+21	5,778388E+21	6,256239E+22	1,155608E+22	7,411846E+22
-1989	3,127996E+22	3,128027E+22	5,778467E+21	5,777927E+21	6,256023E+22	1,155639E+22	7,411662E+22
-1988	3,128023E+22	3,128041E+22	5,778362E+21	5,778474E+21	6,256064E+22	1,155684E+22	7,411748E+22
-1987	3,128060E+22	3,127951E+22	5,778067E+21	5,778394E+21	6,256011E+22	1,155646E+22	7,411657E+22
-1986	3,127905E+22	3,128060E+22	5,778602E+21	5,777981E+21	6,255965E+22	1,155658E+22	7,411623E+22
-1985	3,128081E+22	3,128060E+22	5,777877E+21	5,778470E+21	6,256141E+22	1,155635E+22	7,411776E+22
-1984	3,128094E+22	3,128016E+22	5,777769E+21	5,777749E+21	6,256110E+22	1,155552E+22	7,411662E+22
-1983	3,128063E+22	3,128176E+22	5,777969E+21	5,777431E+21	6,256239E+22	1,155540E+22	7,411779E+22
-1982	3,128277E+22	3,128175E+22	5,777075E+21	5,777624E+21	6,256452E+22	1,155470E+22	7,411922E+22
-1981	3,128198E+22	3,128206E+22	5,777316E+21	5,776871E+21	6,256404E+22	1,155419E+22	7,411823E+22
-1980	3,128213E+22	3,128315E+22	5,777233E+21	5,777177E+21	6,256528E+22	1,155441E+22	7,411969E+22
-1979	3,128310E+22	3,128238E+22	5,776718E+21	5,777260E+21	6,256548E+22	1,155398E+22	7,411946E+22
-1978	3,128172E+22	3,128291E+22	5,777386E+21	5,776799E+21	6,256463E+22	1,155418E+22	7,411882E+22
-1977	3,128283E+22	3,128264E+22	5,777153E+21	5,777497E+21	6,256546E+22	1,155465E+22	7,412011E+22
-1976	3,128270E+22	3,128123E+22	5,777202E+21	5,777400E+21	6,256393E+22	1,155460E+22	7,411853E+22
-1975	3,128090E+22	3,128202E+22	5,777998E+21	5,777478E+21	6,256292E+22	1,155548E+22	7,411839E+22
-1974	3,128174E+22	3,128122E+22	5,777625E+21	5,778386E+21	6,256296E+22	1,155601E+22	7,411897E+22
-1973	3,128048E+22	3,127999E+22	5,778175E+21	5,778144E+21	6,256047E+22	1,155632E+22	7,411679E+22
-1972	3,127936E+22	3,128039E+22	5,778722E+21	5,778487E+21	6,255975E+22	1,155721E+22	7,411696E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1971	3,128014E+22	3,127898E+22	5,778392E+21	5,778970E+21	6,255911E+22	1,155736E+22	7,411648E+22
-1970	3,127841E+22	3,127893E+22	5,779127E+21	5,778494E+21	6,255734E+22	1,155762E+22	7,411496E+22
-1969	3,127863E+22	3,127919E+22	5,779008E+21	5,779110E+21	6,255783E+22	1,155812E+22	7,411594E+22
-1968	3,127913E+22	3,127796E+22	5,778618E+21	5,779066E+21	6,255710E+22	1,155768E+22	7,411478E+22
-1967	3,127783E+22	3,127921E+22	5,779092E+21	5,778526E+21	6,255704E+22	1,155762E+22	7,411466E+22
-1966	3,127970E+22	3,127944E+22	5,778393E+21	5,778945E+21	6,255914E+22	1,155734E+22	7,411648E+22
-1965	3,128017E+22	3,127895E+22	5,778232E+21	5,778170E+21	6,255912E+22	1,155640E+22	7,411553E+22
-1964	3,127963E+22	3,128074E+22	5,778429E+21	5,777828E+21	6,256038E+22	1,155626E+22	7,411663E+22
-1963	3,128122E+22	3,128066E+22	5,777629E+21	5,778185E+21	6,256189E+22	1,155581E+22	7,411770E+22
-1962	3,128039E+22	3,128101E+22	5,777883E+21	5,777464E+21	6,256140E+22	1,155535E+22	7,411675E+22
-1961	3,128063E+22	3,128188E+22	5,777870E+21	5,777794E+21	6,256251E+22	1,155566E+22	7,411817E+22
-1960	3,128186E+22	3,128059E+22	5,777326E+21	5,777891E+21	6,256244E+22	1,155522E+22	7,411766E+22
-1959	3,128057E+22	3,128119E+22	5,777975E+21	5,777372E+21	6,256176E+22	1,155535E+22	7,411711E+22
-1958	3,128142E+22	3,128127E+22	5,777786E+21	5,778153E+21	6,256269E+22	1,155594E+22	7,411863E+22
-1957	3,128137E+22	3,127982E+22	5,777778E+21	5,778118E+21	6,256119E+22	1,155590E+22	7,411709E+22
-1956	3,127936E+22	3,128066E+22	5,778603E+21	5,778137E+21	6,256002E+22	1,155674E+22	7,411676E+22
-1955	3,127996E+22	3,127970E+22	5,778358E+21	5,779072E+21	6,255966E+22	1,155743E+22	7,411709E+22
-1954	3,127884E+22	3,127853E+22	5,778926E+21	5,778748E+21	6,255737E+22	1,155767E+22	7,411504E+22
-1953	3,127779E+22	3,127884E+22	5,779508E+21	5,779111E+21	6,255663E+22	1,155862E+22	7,411525E+22
-1952	3,127852E+22	3,127712E+22	5,779079E+21	5,779682E+21	6,255564E+22	1,155876E+22	7,411441E+22
-1951	3,127679E+22	3,127729E+22	5,779704E+21	5,779197E+21	6,255409E+22	1,155890E+22	7,411299E+22
-1950	3,127710E+22	3,127782E+22	5,779572E+21	5,779791E+21	6,255492E+22	1,155936E+22	7,411428E+22
-1949	3,127810E+22	3,127656E+22	5,779092E+21	5,779626E+21	6,255466E+22	1,155872E+22	7,411338E+22
-1948	3,127697E+22	3,127803E+22	5,779544E+21	5,778899E+21	6,255500E+22	1,155844E+22	7,411345E+22
-1947	3,127855E+22	3,127832E+22	5,778951E+21	5,779347E+21	6,255688E+22	1,155830E+22	7,411518E+22
-1946	3,127883E+22	3,127816E+22	5,778776E+21	5,778612E+21	6,255699E+22	1,155739E+22	7,411438E+22
-1945	3,127814E+22	3,127984E+22	5,779005E+21	5,778400E+21	6,255798E+22	1,155741E+22	7,411538E+22
-1944	3,127967E+22	3,127918E+22	5,778167E+21	5,778832E+21	6,255885E+22	1,155700E+22	7,411585E+22
-1943	3,127909E+22	3,127946E+22	5,778393E+21	5,778062E+21	6,255855E+22	1,155646E+22	7,411501E+22
-1942	3,127949E+22	3,128035E+22	5,778436E+21	5,778359E+21	6,255984E+22	1,155680E+22	7,411664E+22
-1941	3,128096E+22	3,127900E+22	5,777861E+21	5,778464E+21	6,255996E+22	1,155633E+22	7,411628E+22
-1940	3,127942E+22	3,127990E+22	5,778506E+21	5,777940E+21	6,255933E+22	1,155645E+22	7,411577E+22
-1939	3,127970E+22	3,127998E+22	5,778458E+21	5,778849E+21	6,255968E+22	1,155731E+22	7,411698E+22
-1938	3,127957E+22	3,127862E+22	5,778501E+21	5,778805E+21	6,255819E+22	1,155731E+22	7,411550E+22
-1937	3,127765E+22	3,127919E+22	5,779411E+21	5,778820E+21	6,255685E+22	1,155823E+22	7,411508E+22
-1936	3,127828E+22	3,127773E+22	5,779135E+21	5,779748E+21	6,255601E+22	1,155888E+22	7,411490E+22
-1935	3,127728E+22	3,127666E+22	5,779635E+21	5,779407E+21	6,255394E+22	1,155904E+22	7,411298E+22
-1934	3,127610E+22	3,127725E+22	5,780181E+21	5,779825E+21	6,255335E+22	1,156001E+22	7,411336E+22
-1933	3,127709E+22	3,127558E+22	5,779624E+21	5,780419E+21	6,255266E+22	1,156004E+22	7,411271E+22
-1932	3,127550E+22	3,127595E+22	5,780184E+21	5,779795E+21	6,255145E+22	1,155998E+22	7,411143E+22
-1931	3,127574E+22	3,127656E+22	5,780153E+21	5,780344E+21	6,255229E+22	1,156050E+22	7,411279E+22
-1930	3,127695E+22	3,127555E+22	5,779682E+21	5,780049E+21	6,255251E+22	1,155973E+22	7,411224E+22
-1929	3,127581E+22	3,127700E+22	5,780176E+21	5,779351E+21	6,255281E+22	1,155953E+22	7,411234E+22
-1928	3,127711E+22	3,127701E+22	5,779515E+21	5,779900E+21	6,255412E+22	1,155941E+22	7,411353E+22
-1927	3,127732E+22	3,127682E+22	5,779263E+21	5,779214E+21	6,255415E+22	1,155848E+22	7,411262E+22
-1926	3,127666E+22	3,127849E+22	5,779512E+21	5,779019E+21	6,255515E+22	1,155853E+22	7,411368E+22
-1925	3,127869E+22	3,127764E+22	5,778607E+21	5,779395E+21	6,255634E+22	1,155800E+22	7,411434E+22
-1924	3,127828E+22	3,127803E+22	5,778827E+21	5,778488E+21	6,255631E+22	1,155731E+22	7,411363E+22
-1923	3,127835E+22	3,127909E+22	5,779017E+21	5,778861E+21	6,255743E+22	1,155788E+22	7,411531E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1922	3,127956E+22	3,127808E+22	5,778484E+21	5,779009E+21	6,255764E+22	1,155749E+22	7,411513E+22
-1921	3,127781E+22	3,127885E+22	5,779220E+21	5,778621E+21	6,255666E+22	1,155784E+22	7,411451E+22
-1920	3,127786E+22	3,127839E+22	5,779189E+21	5,779588E+21	6,255624E+22	1,155878E+22	7,411502E+22
-1919	3,127786E+22	3,127688E+22	5,779223E+21	5,779525E+21	6,255474E+22	1,155875E+22	7,411349E+22
-1918	3,127605E+22	3,127739E+22	5,780169E+21	5,779526E+21	6,255344E+22	1,155970E+22	7,411313E+22
-1917	3,127691E+22	3,127582E+22	5,779793E+21	5,780470E+21	6,255273E+22	1,156026E+22	7,411300E+22
-1916	3,127581E+22	3,127503E+22	5,780207E+21	5,780094E+21	6,255084E+22	1,156030E+22	7,411114E+22
-1915	3,127436E+22	3,127576E+22	5,780810E+21	5,780569E+21	6,255011E+22	1,156138E+22	7,411149E+22
-1914	3,127551E+22	3,127438E+22	5,780257E+21	5,781048E+21	6,254990E+22	1,156130E+22	7,411120E+22
-1913	3,127426E+22	3,127474E+22	5,780846E+21	5,780356E+21	6,254899E+22	1,156120E+22	7,411020E+22
-1912	3,127446E+22	3,127503E+22	5,780782E+21	5,780828E+21	6,254949E+22	1,156161E+22	7,411110E+22
-1911	3,127568E+22	3,127425E+22	5,780245E+21	5,780527E+21	6,254994E+22	1,156077E+22	7,411071E+22
-1910	3,127439E+22	3,127582E+22	5,780708E+21	5,779898E+21	6,255021E+22	1,156061E+22	7,411082E+22
-1909	3,127579E+22	3,127568E+22	5,779941E+21	5,780486E+21	6,255147E+22	1,156043E+22	7,411189E+22
-1908	3,127616E+22	3,127557E+22	5,779643E+21	5,779715E+21	6,255173E+22	1,155936E+22	7,411109E+22
-1907	3,127547E+22	3,127719E+22	5,780012E+21	5,779522E+21	6,255266E+22	1,155953E+22	7,411219E+22
-1906	3,127767E+22	3,127656E+22	5,779175E+21	5,779823E+21	6,255423E+22	1,155900E+22	7,411323E+22
-1905	3,127723E+22	3,127694E+22	5,779464E+21	5,779014E+21	6,255417E+22	1,155848E+22	7,411265E+22
-1904	3,127678E+22	3,127772E+22	5,779656E+21	5,779508E+21	6,255450E+22	1,155916E+22	7,411367E+22
-1903	3,127785E+22	3,127670E+22	5,779127E+21	5,779734E+21	6,255454E+22	1,155886E+22	7,411341E+22
-1902	3,127608E+22	3,127729E+22	5,779930E+21	5,779376E+21	6,255337E+22	1,155931E+22	7,411267E+22
-1901	3,127642E+22	3,127656E+22	5,779845E+21	5,780292E+21	6,255298E+22	1,156014E+22	7,411312E+22
-1900	3,127655E+22	3,127510E+22	5,779842E+21	5,780131E+21	6,255165E+22	1,155997E+22	7,411162E+22
-1899	3,127445E+22	3,127573E+22	5,780864E+21	5,780213E+21	6,255018E+22	1,156108E+22	7,411126E+22
-1898	3,127524E+22	3,127452E+22	5,780473E+21	5,781147E+21	6,254976E+22	1,156162E+22	7,411138E+22
-1897	3,127421E+22	3,127371E+22	5,780899E+21	5,780818E+21	6,254791E+22	1,156172E+22	7,410963E+22
-1896	3,127272E+22	3,127416E+22	5,781477E+21	5,781252E+21	6,254688E+22	1,156273E+22	7,410961E+22
-1895	3,127414E+22	3,127287E+22	5,780900E+21	5,781626E+21	6,254701E+22	1,156253E+22	7,410953E+22
-1894	3,127298E+22	3,127330E+22	5,781500E+21	5,780888E+21	6,254628E+22	1,156239E+22	7,410867E+22
-1893	3,127331E+22	3,127359E+22	5,781309E+21	5,781361E+21	6,254691E+22	1,156267E+22	7,410958E+22
-1892	3,127435E+22	3,127302E+22	5,780669E+21	5,781038E+21	6,254737E+22	1,156171E+22	7,410908E+22
-1891	3,127284E+22	3,127459E+22	5,781191E+21	5,780489E+21	6,254743E+22	1,156168E+22	7,410911E+22
-1890	3,127446E+22	3,127460E+22	5,780444E+21	5,780969E+21	6,254906E+22	1,156141E+22	7,411047E+22
-1889	3,127517E+22	3,127440E+22	5,780194E+21	5,780191E+21	6,254957E+22	1,156038E+22	7,410996E+22
-1888	3,127439E+22	3,127575E+22	5,780567E+21	5,780002E+21	6,255014E+22	1,156057E+22	7,411071E+22
-1887	3,127647E+22	3,127533E+22	5,779739E+21	5,780358E+21	6,255180E+22	1,156010E+22	7,411190E+22
-1886	3,127580E+22	3,127578E+22	5,780060E+21	5,779670E+21	6,255158E+22	1,155973E+22	7,411131E+22
-1885	3,127535E+22	3,127630E+22	5,780204E+21	5,780204E+21	6,255164E+22	1,156041E+22	7,411205E+22
-1884	3,127642E+22	3,127523E+22	5,779678E+21	5,780367E+21	6,255165E+22	1,156004E+22	7,411169E+22
-1883	3,127457E+22	3,127566E+22	5,780615E+21	5,780038E+21	6,255023E+22	1,156065E+22	7,411088E+22
-1882	3,127495E+22	3,127507E+22	5,780581E+21	5,780877E+21	6,255002E+22	1,156146E+22	7,411148E+22
-1881	3,127509E+22	3,127361E+22	5,780602E+21	5,780836E+21	6,254870E+22	1,156144E+22	7,411014E+22
-1880	3,127259E+22	3,127395E+22	5,781571E+21	5,780986E+21	6,254654E+22	1,156256E+22	7,410910E+22
-1879	3,127342E+22	3,127288E+22	5,781168E+21	5,781918E+21	6,254630E+22	1,156309E+22	7,410939E+22
-1878	3,127264E+22	3,127208E+22	5,781604E+21	5,781533E+21	6,254472E+22	1,156314E+22	7,410786E+22
-1877	3,127148E+22	3,127245E+22	5,782087E+21	5,781843E+21	6,254394E+22	1,156393E+22	7,410787E+22
-1876	3,127299E+22	3,127144E+22	5,781448E+21	5,782088E+21	6,254444E+22	1,156354E+22	7,410797E+22
-1875	3,127153E+22	3,127207E+22	5,782079E+21	5,781428E+21	6,254360E+22	1,156351E+22	7,410711E+22
-1874	3,127173E+22	3,127266E+22	5,781855E+21	5,781869E+21	6,254438E+22	1,156372E+22	7,410811E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1873	3,127293E+22	3,127196E+22	5,781210E+21	5,781620E+21	6,254490E+22	1,156283E+22	7,410773E+22
-1872	3,127141E+22	3,127313E+22	5,781700E+21	5,781052E+21	6,254454E+22	1,156275E+22	7,410729E+22
-1871	3,127336E+22	3,127321E+22	5,780973E+21	5,781471E+21	6,254658E+22	1,156244E+22	7,410902E+22
-1870	3,127423E+22	3,127306E+22	5,780758E+21	5,780704E+21	6,254728E+22	1,156146E+22	7,410875E+22
-1869	3,127342E+22	3,127441E+22	5,781045E+21	5,780562E+21	6,254783E+22	1,156161E+22	7,410944E+22
-1868	3,127521E+22	3,127417E+22	5,780191E+21	5,780918E+21	6,254939E+22	1,156111E+22	7,411050E+22
-1867	3,127424E+22	3,127454E+22	5,780634E+21	5,780341E+21	6,254878E+22	1,156098E+22	7,410975E+22
-1866	3,127385E+22	3,127508E+22	5,780856E+21	5,780765E+21	6,254893E+22	1,156162E+22	7,411055E+22
-1865	3,127510E+22	3,127378E+22	5,780400E+21	5,780956E+21	6,254888E+22	1,156136E+22	7,411023E+22
-1864	3,127301E+22	3,127385E+22	5,781345E+21	5,780675E+21	6,254686E+22	1,156202E+22	7,410888E+22
-1863	3,127330E+22	3,127340E+22	5,781304E+21	5,781575E+21	6,254670E+22	1,156288E+22	7,410958E+22
-1862	3,127330E+22	3,127200E+22	5,781324E+21	5,781629E+21	6,254530E+22	1,156295E+22	7,410825E+22
-1861	3,127101E+22	3,127223E+22	5,782179E+21	5,781773E+21	6,254325E+22	1,156395E+22	7,410720E+22
-1860	3,127199E+22	3,127129E+22	5,781756E+21	5,782559E+21	6,254328E+22	1,156431E+22	7,410760E+22
-1859	3,127123E+22	3,127059E+22	5,782275E+21	5,782153E+21	6,254182E+22	1,156443E+22	7,410625E+22
-1858	3,127015E+22	3,127122E+22	5,782764E+21	5,782327E+21	6,254137E+22	1,156509E+22	7,410646E+22
-1857	3,127158E+22	3,127028E+22	5,782101E+21	5,782666E+21	6,254186E+22	1,156477E+22	7,410663E+22
-1856	3,126974E+22	3,127061E+22	5,782656E+21	5,782078E+21	6,254035E+22	1,156473E+22	7,410509E+22
-1855	3,127009E+22	3,127122E+22	5,782405E+21	5,782492E+21	6,254131E+22	1,156490E+22	7,410621E+22
-1854	3,127166E+22	3,127052E+22	5,781763E+21	5,782201E+21	6,254217E+22	1,156396E+22	7,410614E+22
-1853	3,127059E+22	3,127158E+22	5,782135E+21	5,781546E+21	6,254217E+22	1,156368E+22	7,410585E+22
-1852	3,127259E+22	3,127197E+22	5,781393E+21	5,781872E+21	6,254456E+22	1,156327E+22	7,410782E+22
-1851	3,127311E+22	3,127207E+22	5,781248E+21	5,781217E+21	6,254518E+22	1,156246E+22	7,410764E+22
-1850	3,127207E+22	3,127361E+22	5,781582E+21	5,781040E+21	6,254568E+22	1,156262E+22	7,410830E+22
-1849	3,127384E+22	3,127321E+22	5,780805E+21	5,781493E+21	6,254705E+22	1,156230E+22	7,410934E+22
-1848	3,127260E+22	3,127299E+22	5,781295E+21	5,780956E+21	6,254560E+22	1,156225E+22	7,410785E+22
-1847	3,127230E+22	3,127344E+22	5,781584E+21	5,781373E+21	6,254574E+22	1,156296E+22	7,410870E+22
-1846	3,127362E+22	3,127206E+22	5,781162E+21	5,781654E+21	6,254568E+22	1,156282E+22	7,410850E+22
-1845	3,127149E+22	3,127199E+22	5,781970E+21	5,781451E+21	6,254348E+22	1,156342E+22	7,410691E+22
-1844	3,127166E+22	3,127173E+22	5,781887E+21	5,782327E+21	6,254339E+22	1,156421E+22	7,410760E+22
-1843	3,127161E+22	3,127041E+22	5,781982E+21	5,782414E+21	6,254202E+22	1,156440E+22	7,410641E+22
-1842	3,126954E+22	3,127084E+22	5,782873E+21	5,782375E+21	6,254038E+22	1,156525E+22	7,410563E+22
-1841	3,127072E+22	3,126994E+22	5,782492E+21	5,783131E+21	6,254067E+22	1,156562E+22	7,410629E+22
-1840	3,126962E+22	3,126904E+22	5,782985E+21	5,782750E+21	6,253866E+22	1,156573E+22	7,410439E+22
-1839	3,126843E+22	3,126986E+22	5,783431E+21	5,782945E+21	6,253829E+22	1,156638E+22	7,410467E+22
-1838	3,126986E+22	3,126889E+22	5,782727E+21	5,783343E+21	6,253875E+22	1,156607E+22	7,410483E+22
-1837	3,126836E+22	3,126900E+22	5,783122E+21	5,782727E+21	6,253736E+22	1,156585E+22	7,410321E+22
-1836	3,126903E+22	3,126974E+22	5,782829E+21	5,782979E+21	6,253878E+22	1,156581E+22	7,410458E+22
-1835	3,127072E+22	3,126926E+22	5,782258E+21	5,782678E+21	6,253998E+22	1,156494E+22	7,410491E+22
-1834	3,126976E+22	3,127065E+22	5,782643E+21	5,781926E+21	6,254042E+22	1,156457E+22	7,410498E+22
-1833	3,127152E+22	3,127115E+22	5,781935E+21	5,782346E+21	6,254267E+22	1,156428E+22	7,410695E+22
-1832	3,127148E+22	3,127093E+22	5,781806E+21	5,781805E+21	6,254241E+22	1,156361E+22	7,410602E+22
-1831	3,127045E+22	3,127231E+22	5,782203E+21	5,781634E+21	6,254276E+22	1,156384E+22	7,410660E+22
-1830	3,127231E+22	3,127168E+22	5,781495E+21	5,782107E+21	6,254399E+22	1,156360E+22	7,410759E+22
-1829	3,127135E+22	3,127118E+22	5,781889E+21	5,781594E+21	6,254252E+22	1,156348E+22	7,410601E+22
-1828	3,127101E+22	3,127173E+22	5,782163E+21	5,781982E+21	6,254274E+22	1,156414E+22	7,410688E+22
-1827	3,127203E+22	3,127059E+22	5,781787E+21	5,782403E+21	6,254261E+22	1,156419E+22	7,410680E+22
-1826	3,126993E+22	3,127067E+22	5,782593E+21	5,782143E+21	6,254060E+22	1,156474E+22	7,410534E+22
-1825	3,127017E+22	3,127039E+22	5,782575E+21	5,783032E+21	6,254057E+22	1,156561E+22	7,410617E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1824	3,126993E+22	3,126878E+22	5,782720E+21	5,783098E+21	6,253871E+22	1,156582E+22	7,410453E+22
-1823	3,126800E+22	3,126925E+22	5,783666E+21	5,782989E+21	6,253725E+22	1,156665E+22	7,410390E+22
-1822	3,126914E+22	3,126839E+22	5,783297E+21	5,783791E+21	6,253752E+22	1,156709E+22	7,410461E+22
-1821	3,126798E+22	3,126735E+22	5,783596E+21	5,783476E+21	6,253532E+22	1,156707E+22	7,410240E+22
-1820	3,126677E+22	3,126826E+22	5,783950E+21	5,783606E+21	6,253503E+22	1,156756E+22	7,410259E+22
-1819	3,126836E+22	3,126742E+22	5,783261E+21	5,783992E+21	6,253578E+22	1,156725E+22	7,410303E+22
-1818	3,126731E+22	3,126772E+22	5,783627E+21	5,783166E+21	6,253503E+22	1,156679E+22	7,410182E+22
-1817	3,126826E+22	3,126867E+22	5,783368E+21	5,783382E+21	6,253692E+22	1,156675E+22	7,410367E+22
-1816	3,126952E+22	3,126812E+22	5,782803E+21	5,783123E+21	6,253764E+22	1,156593E+22	7,410357E+22
-1815	3,126834E+22	3,126971E+22	5,783206E+21	5,782425E+21	6,253805E+22	1,156563E+22	7,410368E+22
-1814	3,126997E+22	3,127010E+22	5,782535E+21	5,782938E+21	6,254008E+22	1,156547E+22	7,410555E+22
-1813	3,127005E+22	3,126945E+22	5,782306E+21	5,782445E+21	6,253949E+22	1,156475E+22	7,410425E+22
-1812	3,126918E+22	3,127072E+22	5,782719E+21	5,782192E+21	6,253989E+22	1,156491E+22	7,410481E+22
-1811	3,127105E+22	3,127014E+22	5,782097E+21	5,782716E+21	6,254119E+22	1,156481E+22	7,410600E+22
-1810	3,127016E+22	3,126978E+22	5,782490E+21	5,782174E+21	6,253994E+22	1,156466E+22	7,410461E+22
-1809	3,126965E+22	3,127044E+22	5,782789E+21	5,782666E+21	6,254009E+22	1,156546E+22	7,410555E+22
-1808	3,127018E+22	3,126905E+22	5,782461E+21	5,783164E+21	6,253923E+22	1,156563E+22	7,410485E+22
-1807	3,126823E+22	3,126914E+22	5,783340E+21	5,782855E+21	6,253737E+22	1,156619E+22	7,410357E+22
-1806	3,126861E+22	3,126879E+22	5,783397E+21	5,783706E+21	6,253739E+22	1,156710E+22	7,410450E+22
-1805	3,126850E+22	3,126698E+22	5,783435E+21	5,783776E+21	6,253548E+22	1,156721E+22	7,410269E+22
-1804	3,126648E+22	3,126758E+22	5,784323E+21	5,783621E+21	6,253406E+22	1,156794E+22	7,410200E+22
-1803	3,126733E+22	3,126696E+22	5,783940E+21	5,784503E+21	6,253429E+22	1,156844E+22	7,410273E+22
-1802	3,126640E+22	3,126602E+22	5,784166E+21	5,784111E+21	6,253242E+22	1,156828E+22	7,410070E+22
-1801	3,126546E+22	3,126692E+22	5,784507E+21	5,784187E+21	6,253237E+22	1,156869E+22	7,410107E+22
-1800	3,126695E+22	3,126596E+22	5,783843E+21	5,784527E+21	6,253291E+22	1,156837E+22	7,410128E+22
-1799	3,126623E+22	3,126645E+22	5,784224E+21	5,783632E+21	6,253268E+22	1,156786E+22	7,410053E+22
-1798	3,126707E+22	3,126753E+22	5,783986E+21	5,783898E+21	6,253460E+22	1,156788E+22	7,410248E+22
-1797	3,126816E+22	3,126689E+22	5,783268E+21	5,783726E+21	6,253506E+22	1,156699E+22	7,410205E+22
-1796	3,126695E+22	3,126839E+22	5,783647E+21	5,782995E+21	6,253533E+22	1,156664E+22	7,410198E+22
-1795	3,126854E+22	3,126880E+22	5,783051E+21	5,783515E+21	6,253734E+22	1,156657E+22	7,410391E+22
-1794	3,126898E+22	3,126812E+22	5,782830E+21	5,782920E+21	6,253710E+22	1,156575E+22	7,410285E+22
-1793	3,126821E+22	3,126939E+22	5,783294E+21	5,782696E+21	6,253760E+22	1,156599E+22	7,410359E+22
-1792	3,126956E+22	3,126873E+22	5,782728E+21	5,783327E+21	6,253828E+22	1,156605E+22	7,410434E+22
-1791	3,126857E+22	3,126847E+22	5,783154E+21	5,782844E+21	6,253703E+22	1,156600E+22	7,410303E+22
-1790	3,126799E+22	3,126904E+22	5,783524E+21	5,783405E+21	6,253703E+22	1,156693E+22	7,410396E+22
-1789	3,126859E+22	3,126735E+22	5,783128E+21	5,783918E+21	6,253594E+22	1,156705E+22	7,410298E+22
-1788	3,126677E+22	3,126738E+22	5,784039E+21	5,783521E+21	6,253415E+22	1,156756E+22	7,410171E+22
-1787	3,126707E+22	3,126718E+22	5,784160E+21	5,784387E+21	6,253425E+22	1,156855E+22	7,410280E+22
-1786	3,126696E+22	3,126549E+22	5,784138E+21	5,784432E+21	6,253245E+22	1,156857E+22	7,410102E+22
-1785	3,126481E+22	3,126617E+22	5,784974E+21	5,784337E+21	6,253098E+22	1,156931E+22	7,410029E+22
-1784	3,126534E+22	3,126530E+22	5,784586E+21	5,785227E+21	6,253064E+22	1,156981E+22	7,410046E+22
-1783	3,126479E+22	3,126443E+22	5,784811E+21	5,784728E+21	6,252922E+22	1,156954E+22	7,409876E+22
-1782	3,126423E+22	3,126544E+22	5,785162E+21	5,784741E+21	6,252967E+22	1,156990E+22	7,409957E+22
-1781	3,126588E+22	3,126447E+22	5,784373E+21	5,785059E+21	6,253035E+22	1,156943E+22	7,409978E+22
-1780	3,126513E+22	3,126521E+22	5,784690E+21	5,784127E+21	6,253034E+22	1,156882E+22	7,409916E+22
-1779	3,126571E+22	3,126654E+22	5,784462E+21	5,784439E+21	6,253225E+22	1,156890E+22	7,410115E+22
-1778	3,126693E+22	3,126590E+22	5,783712E+21	5,784215E+21	6,253284E+22	1,156793E+22	7,410076E+22
-1777	3,126584E+22	3,126727E+22	5,784129E+21	5,783482E+21	6,253311E+22	1,156761E+22	7,410072E+22
-1776	3,126714E+22	3,126742E+22	5,783631E+21	5,784011E+21	6,253456E+22	1,156764E+22	7,410220E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1775	3,126777E+22	3,126678E+22	5,783481E+21	5,783443E+21	6,253454E+22	1,156692E+22	7,410147E+22
-1774	3,126686E+22	3,126804E+22	5,783977E+21	5,783341E+21	6,253490E+22	1,156732E+22	7,410222E+22
-1773	3,126797E+22	3,126718E+22	5,783315E+21	5,784087E+21	6,253515E+22	1,156740E+22	7,410255E+22
-1772	3,126704E+22	3,126682E+22	5,783741E+21	5,783576E+21	6,253386E+22	1,156732E+22	7,410118E+22
-1771	3,126643E+22	3,126748E+22	5,784200E+21	5,784097E+21	6,253391E+22	1,156830E+22	7,410220E+22
-1770	3,126732E+22	3,126585E+22	5,783819E+21	5,784519E+21	6,253317E+22	1,156834E+22	7,410151E+22
-1769	3,126546E+22	3,126589E+22	5,784755E+21	5,784141E+21	6,253135E+22	1,156890E+22	7,410025E+22
-1768	3,126507E+22	3,126564E+22	5,784910E+21	5,785085E+21	6,253071E+22	1,156999E+22	7,410071E+22
-1767	3,126502E+22	3,126400E+22	5,784868E+21	5,785169E+21	6,252903E+22	1,157004E+22	7,409906E+22
-1766	3,126301E+22	3,126452E+22	5,785688E+21	5,785089E+21	6,252754E+22	1,157078E+22	7,409831E+22
-1765	3,126380E+22	3,126348E+22	5,785177E+21	5,785923E+21	6,252728E+22	1,157110E+22	7,409838E+22
-1764	3,126369E+22	3,126271E+22	5,785363E+21	5,785286E+21	6,252640E+22	1,157065E+22	7,409705E+22
-1763	3,126316E+22	3,126411E+22	5,785731E+21	5,785263E+21	6,252726E+22	1,157099E+22	7,409826E+22
-1762	3,126483E+22	3,126346E+22	5,784874E+21	5,785545E+21	6,252828E+22	1,157042E+22	7,409870E+22
-1761	3,126389E+22	3,126428E+22	5,785157E+21	5,784652E+21	6,252817E+22	1,156981E+22	7,409798E+22
-1760	3,126403E+22	3,126538E+22	5,785000E+21	5,784966E+21	6,252941E+22	1,156997E+22	7,409938E+22
-1759	3,126554E+22	3,126467E+22	5,784304E+21	5,784691E+21	6,253021E+22	1,156900E+22	7,409921E+22
-1758	3,126469E+22	3,126589E+22	5,784768E+21	5,783994E+21	6,253057E+22	1,156876E+22	7,409934E+22
-1757	3,126592E+22	3,126587E+22	5,784189E+21	5,784587E+21	6,253179E+22	1,156878E+22	7,410056E+22
-1756	3,126649E+22	3,126532E+22	5,784006E+21	5,784073E+21	6,253181E+22	1,156808E+22	7,409989E+22
-1755	3,126540E+22	3,126677E+22	5,784529E+21	5,784040E+21	6,253217E+22	1,156857E+22	7,410074E+22
-1754	3,126664E+22	3,126586E+22	5,783877E+21	5,784730E+21	6,253250E+22	1,156861E+22	7,410111E+22
-1753	3,126579E+22	3,126545E+22	5,784359E+21	5,784203E+21	6,253124E+22	1,156856E+22	7,409980E+22
-1752	3,126480E+22	3,126590E+22	5,784949E+21	5,784708E+21	6,253069E+22	1,156966E+22	7,410035E+22
-1751	3,126569E+22	3,126431E+22	5,784640E+21	5,785161E+21	6,253000E+22	1,156980E+22	7,409980E+22
-1750	3,126366E+22	3,126431E+22	5,785567E+21	5,784920E+21	6,252797E+22	1,157049E+22	7,409846E+22
-1749	3,126306E+22	3,126378E+22	5,785584E+21	5,785917E+21	6,252684E+22	1,157150E+22	7,409834E+22
-1748	3,126331E+22	3,126206E+22	5,785491E+21	5,785931E+21	6,252537E+22	1,157142E+22	7,409679E+22
-1747	3,126160E+22	3,126280E+22	5,786299E+21	5,785744E+21	6,252440E+22	1,157204E+22	7,409645E+22
-1746	3,126282E+22	3,126201E+22	5,785751E+21	5,786435E+21	6,252483E+22	1,157219E+22	7,409702E+22
-1745	3,126276E+22	3,126157E+22	5,785901E+21	5,785768E+21	6,252433E+22	1,157167E+22	7,409600E+22
-1744	3,126160E+22	3,126308E+22	5,786307E+21	5,785770E+21	6,252468E+22	1,157208E+22	7,409675E+22
-1743	3,126326E+22	3,126254E+22	5,785471E+21	5,786062E+21	6,252580E+22	1,157153E+22	7,409733E+22
-1742	3,126241E+22	3,126313E+22	5,785759E+21	5,785227E+21	6,252554E+22	1,157099E+22	7,409653E+22
-1741	3,126258E+22	3,126387E+22	5,785524E+21	5,785526E+21	6,252645E+22	1,157105E+22	7,409750E+22
-1740	3,126447E+22	3,126305E+22	5,784824E+21	5,785224E+21	6,252752E+22	1,157005E+22	7,409757E+22
-1739	3,126359E+22	3,126447E+22	5,785294E+21	5,784562E+21	6,252807E+22	1,156986E+22	7,409792E+22
-1738	3,126485E+22	3,126464E+22	5,784675E+21	5,785182E+21	6,252949E+22	1,156986E+22	7,409934E+22
-1737	3,126529E+22	3,126412E+22	5,784482E+21	5,784700E+21	6,252941E+22	1,156918E+22	7,409859E+22
-1736	3,126373E+22	3,126539E+22	5,785142E+21	5,784653E+21	6,252912E+22	1,156980E+22	7,409892E+22
-1735	3,126518E+22	3,126451E+22	5,784609E+21	5,785290E+21	6,252969E+22	1,156990E+22	7,409959E+22
-1734	3,126437E+22	3,126394E+22	5,785166E+21	5,784840E+21	6,252831E+22	1,157001E+22	7,409832E+22
-1733	3,126306E+22	3,126417E+22	5,785695E+21	5,785414E+21	6,252722E+22	1,157111E+22	7,409833E+22
-1732	3,126391E+22	3,126253E+22	5,785340E+21	5,785930E+21	6,252644E+22	1,157127E+22	7,409771E+22
-1731	3,126183E+22	3,126260E+22	5,786235E+21	5,785719E+21	6,252442E+22	1,157195E+22	7,409638E+22
-1730	3,126156E+22	3,126208E+22	5,786198E+21	5,786626E+21	6,252364E+22	1,157282E+22	7,409647E+22
-1729	3,126208E+22	3,126049E+22	5,786083E+21	5,786550E+21	6,252257E+22	1,157263E+22	7,409520E+22
-1728	3,126018E+22	3,126132E+22	5,786976E+21	5,786302E+21	6,252150E+22	1,157328E+22	7,409478E+22
-1727	3,126148E+22	3,126084E+22	5,786472E+21	5,786967E+21	6,252232E+22	1,157344E+22	7,409576E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1726	3,126123E+22	3,126050E+22	5,786580E+21	5,786411E+21	6,252173E+22	1,157299E+22	7,409472E+22
-1725	3,125983E+22	3,126169E+22	5,786861E+21	5,786417E+21	6,252152E+22	1,157328E+22	7,409480E+22
-1724	3,126177E+22	3,126098E+22	5,785990E+21	5,786643E+21	6,252275E+22	1,157263E+22	7,409538E+22
-1723	3,126122E+22	3,126166E+22	5,786264E+21	5,785755E+21	6,252287E+22	1,157202E+22	7,409489E+22
-1722	3,126173E+22	3,126244E+22	5,785991E+21	5,785977E+21	6,252418E+22	1,157197E+22	7,409615E+22
-1721	3,126357E+22	3,126191E+22	5,785262E+21	5,785703E+21	6,252548E+22	1,157097E+22	7,409645E+22
-1720	3,126220E+22	3,126338E+22	5,785793E+21	5,785110E+21	6,252558E+22	1,157090E+22	7,409648E+22
-1719	3,126342E+22	3,126362E+22	5,785273E+21	5,785733E+21	6,252704E+22	1,157101E+22	7,409804E+22
-1718	3,126389E+22	3,126295E+22	5,785143E+21	5,785330E+21	6,252683E+22	1,157047E+22	7,409731E+22
-1717	3,126219E+22	3,126379E+22	5,785809E+21	5,785268E+21	6,252598E+22	1,157108E+22	7,409706E+22
-1716	3,126379E+22	3,126276E+22	5,785334E+21	5,785921E+21	6,252654E+22	1,157126E+22	7,409780E+22
-1715	3,126280E+22	3,126231E+22	5,785899E+21	5,785571E+21	6,252511E+22	1,157147E+22	7,409658E+22
-1714	3,126140E+22	3,126253E+22	5,786351E+21	5,786191E+21	6,252393E+22	1,157254E+22	7,409647E+22
-1713	3,126223E+22	3,126090E+22	5,785949E+21	5,786709E+21	6,252313E+22	1,157266E+22	7,409579E+22
-1712	3,126000E+22	3,126084E+22	5,786911E+21	5,786434E+21	6,252084E+22	1,157334E+22	7,409418E+22
-1711	3,126012E+22	3,126053E+22	5,786951E+21	5,787223E+21	6,252065E+22	1,157417E+22	7,409482E+22
-1710	3,126078E+22	3,125909E+22	5,786845E+21	5,787177E+21	6,251987E+22	1,157402E+22	7,409389E+22
-1709	3,125858E+22	3,125987E+22	5,787641E+21	5,786942E+21	6,251845E+22	1,157458E+22	7,409303E+22
-1708	3,125991E+22	3,125945E+22	5,787085E+21	5,787618E+21	6,251936E+22	1,157470E+22	7,409407E+22
-1707	3,125963E+22	3,125917E+22	5,787134E+21	5,787050E+21	6,251880E+22	1,157418E+22	7,409298E+22
-1706	3,125856E+22	3,126029E+22	5,787333E+21	5,786964E+21	6,251884E+22	1,157430E+22	7,409314E+22
-1705	3,126076E+22	3,125960E+22	5,786422E+21	5,787096E+21	6,252037E+22	1,157352E+22	7,409389E+22
-1704	3,126003E+22	3,126028E+22	5,786784E+21	5,786200E+21	6,252031E+22	1,157298E+22	7,409330E+22
-1703	3,126062E+22	3,126140E+22	5,786577E+21	5,786444E+21	6,252202E+22	1,157302E+22	7,409504E+22
-1702	3,126226E+22	3,126092E+22	5,785851E+21	5,786317E+21	6,252318E+22	1,157217E+22	7,409535E+22
-1701	3,126060E+22	3,126204E+22	5,786340E+21	5,785748E+21	6,252264E+22	1,157209E+22	7,409473E+22
-1700	3,126205E+22	3,126208E+22	5,785880E+21	5,786327E+21	6,252413E+22	1,157221E+22	7,409633E+22
-1699	3,126257E+22	3,126144E+22	5,785793E+21	5,785923E+21	6,252401E+22	1,157172E+22	7,409573E+22
-1698	3,126098E+22	3,126223E+22	5,786453E+21	5,785872E+21	6,252322E+22	1,157233E+22	7,409554E+22
-1697	3,126232E+22	3,126133E+22	5,785953E+21	5,786577E+21	6,252365E+22	1,157253E+22	7,409618E+22
-1696	3,126086E+22	3,126080E+22	5,786584E+21	5,786327E+21	6,252166E+22	1,157291E+22	7,409457E+22
-1695	3,125959E+22	3,126102E+22	5,787097E+21	5,786921E+21	6,252060E+22	1,157402E+22	7,409462E+22
-1694	3,126058E+22	3,125933E+22	5,786710E+21	5,787480E+21	6,251991E+22	1,157419E+22	7,409410E+22
-1693	3,125841E+22	3,125899E+22	5,787620E+21	5,787136E+21	6,251739E+22	1,157476E+22	7,409215E+22
-1692	3,125879E+22	3,125874E+22	5,787684E+21	5,787874E+21	6,251753E+22	1,157556E+22	7,409309E+22
-1691	3,125931E+22	3,125769E+22	5,787531E+21	5,787864E+21	6,251700E+22	1,157540E+22	7,409239E+22
-1690	3,125710E+22	3,125848E+22	5,788206E+21	5,787610E+21	6,251558E+22	1,157582E+22	7,409139E+22
-1689	3,125838E+22	3,125810E+22	5,787582E+21	5,788197E+21	6,251649E+22	1,157578E+22	7,409226E+22
-1688	3,125807E+22	3,125773E+22	5,787676E+21	5,787570E+21	6,251580E+22	1,157525E+22	7,409105E+22
-1687	3,125737E+22	3,125897E+22	5,787929E+21	5,787378E+21	6,251634E+22	1,157531E+22	7,409164E+22
-1686	3,125968E+22	3,125847E+22	5,787017E+21	5,787590E+21	6,251815E+22	1,157461E+22	7,409276E+22
-1685	3,125870E+22	3,125901E+22	5,787291E+21	5,786746E+21	6,251771E+22	1,157404E+22	7,409175E+22
-1684	3,125934E+22	3,126013E+22	5,787095E+21	5,787033E+21	6,251947E+22	1,157413E+22	7,409360E+22
-1683	3,126091E+22	3,125976E+22	5,786378E+21	5,786927E+21	6,252067E+22	1,157331E+22	7,409397E+22
-1682	3,125945E+22	3,126069E+22	5,786849E+21	5,786326E+21	6,252014E+22	1,157317E+22	7,409331E+22
-1681	3,126092E+22	3,126071E+22	5,786427E+21	5,786838E+21	6,252163E+22	1,157326E+22	7,409489E+22
-1680	3,126110E+22	3,125998E+22	5,786468E+21	5,786520E+21	6,252109E+22	1,157299E+22	7,409407E+22
-1679	3,125939E+22	3,126089E+22	5,787200E+21	5,786536E+21	6,252029E+22	1,157374E+22	7,409402E+22
-1678	3,126050E+22	3,125994E+22	5,786691E+21	5,787394E+21	6,252044E+22	1,157409E+22	7,409452E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1677	3,125889E+22	3,125891E+22	5,787272E+21	5,787143E+21	6,251780E+22	1,157441E+22	7,409222E+22
-1676	3,125807E+22	3,125902E+22	5,787819E+21	5,787660E+21	6,251708E+22	1,157548E+22	7,409256E+22
-1675	3,125919E+22	3,125756E+22	5,787444E+21	5,788152E+21	6,251675E+22	1,157560E+22	7,409234E+22
-1674	3,125718E+22	3,125737E+22	5,788286E+21	5,787787E+21	6,251455E+22	1,157607E+22	7,409062E+22
-1673	3,125736E+22	3,125742E+22	5,788285E+21	5,788480E+21	6,251478E+22	1,157677E+22	7,409154E+22
-1672	3,125745E+22	3,125639E+22	5,788172E+21	5,788508E+21	6,251384E+22	1,157668E+22	7,409052E+22
-1671	3,125541E+22	3,125725E+22	5,788864E+21	5,788183E+21	6,251266E+22	1,157705E+22	7,408971E+22
-1670	3,125685E+22	3,125682E+22	5,788221E+21	5,788774E+21	6,251367E+22	1,157699E+22	7,409066E+22
-1669	3,125662E+22	3,125610E+22	5,788256E+21	5,788110E+21	6,251272E+22	1,157637E+22	7,408908E+22
-1668	3,125629E+22	3,125738E+22	5,788508E+21	5,787920E+21	6,251367E+22	1,157643E+22	7,409010E+22
-1667	3,125843E+22	3,125727E+22	5,787551E+21	5,788194E+21	6,251571E+22	1,157575E+22	7,409145E+22
-1666	3,125754E+22	3,125780E+22	5,787715E+21	5,787374E+21	6,251535E+22	1,157509E+22	7,409044E+22
-1665	3,125817E+22	3,125894E+22	5,787507E+21	5,787552E+21	6,251711E+22	1,157506E+22	7,409217E+22
-1664	3,125958E+22	3,125851E+22	5,786922E+21	5,787424E+21	6,251809E+22	1,157435E+22	7,409244E+22
-1663	3,125829E+22	3,125947E+22	5,787511E+21	5,786787E+21	6,251776E+22	1,157430E+22	7,409206E+22
-1662	3,125952E+22	3,125956E+22	5,787137E+21	5,787431E+21	6,251907E+22	1,157457E+22	7,409364E+22
-1661	3,125931E+22	3,125846E+22	5,787138E+21	5,787240E+21	6,251777E+22	1,157438E+22	7,409215E+22
-1660	3,125770E+22	3,125913E+22	5,787886E+21	5,787310E+21	6,251683E+22	1,157520E+22	7,409202E+22
-1659	3,125880E+22	3,125826E+22	5,787380E+21	5,788174E+21	6,251706E+22	1,157555E+22	7,409261E+22
-1658	3,125756E+22	3,125706E+22	5,787891E+21	5,787864E+21	6,251462E+22	1,157576E+22	7,409038E+22
-1657	3,125681E+22	3,125732E+22	5,788449E+21	5,788256E+21	6,251413E+22	1,157670E+22	7,409083E+22
-1656	3,125765E+22	3,125609E+22	5,788183E+21	5,788799E+21	6,251374E+22	1,157698E+22	7,409072E+22
-1655	3,125551E+22	3,125614E+22	5,789052E+21	5,788450E+21	6,251165E+22	1,157750E+22	7,408915E+22
-1654	3,125545E+22	3,125622E+22	5,789016E+21	5,789211E+21	6,251167E+22	1,157823E+22	7,408990E+22
-1653	3,125548E+22	3,125469E+22	5,788828E+21	5,789202E+21	6,251017E+22	1,157803E+22	7,408820E+22
-1652	3,125397E+22	3,125537E+22	5,789498E+21	5,788792E+21	6,250934E+22	1,157829E+22	7,408763E+22
-1651	3,125558E+22	3,125524E+22	5,788817E+21	5,789328E+21	6,251083E+22	1,157814E+22	7,408897E+22
-1650	3,125563E+22	3,125465E+22	5,788721E+21	5,788674E+21	6,251028E+22	1,157739E+22	7,408767E+22
-1649	3,125524E+22	3,125626E+22	5,788899E+21	5,788432E+21	6,251149E+22	1,157733E+22	7,408882E+22
-1648	3,125708E+22	3,125627E+22	5,788028E+21	5,788733E+21	6,251336E+22	1,157676E+22	7,409012E+22
-1647	3,125635E+22	3,125687E+22	5,788257E+21	5,787854E+21	6,251322E+22	1,157611E+22	7,408933E+22
-1646	3,125695E+22	3,125794E+22	5,788103E+21	5,788038E+21	6,251489E+22	1,157614E+22	7,409103E+22
-1645	3,125817E+22	3,125703E+22	5,787555E+21	5,787944E+21	6,251520E+22	1,157550E+22	7,409070E+22
-1644	3,125701E+22	3,125786E+22	5,788200E+21	5,787413E+21	6,251487E+22	1,157561E+22	7,409048E+22
-1643	3,125784E+22	3,125809E+22	5,787814E+21	5,788157E+21	6,251593E+22	1,157597E+22	7,409190E+22
-1642	3,125771E+22	3,125676E+22	5,787721E+21	5,788040E+21	6,251446E+22	1,157576E+22	7,409022E+22
-1641	3,125625E+22	3,125737E+22	5,788437E+21	5,787992E+21	6,251362E+22	1,157643E+22	7,409005E+22
-1640	3,125728E+22	3,125655E+22	5,788068E+21	5,788819E+21	6,251383E+22	1,157689E+22	7,409072E+22
-1639	3,125625E+22	3,125561E+22	5,788655E+21	5,788457E+21	6,251186E+22	1,157711E+22	7,408898E+22
-1638	3,125525E+22	3,125610E+22	5,789231E+21	5,788924E+21	6,251135E+22	1,157816E+22	7,408950E+22
-1637	3,125563E+22	3,125458E+22	5,788937E+21	5,789548E+21	6,251022E+22	1,157848E+22	7,408870E+22
-1636	3,125368E+22	3,125444E+22	5,789790E+21	5,789226E+21	6,250812E+22	1,157902E+22	7,408713E+22
-1635	3,125360E+22	3,125459E+22	5,789702E+21	5,789924E+21	6,250820E+22	1,157963E+22	7,408782E+22
-1634	3,125414E+22	3,125287E+22	5,789382E+21	5,789858E+21	6,250701E+22	1,157924E+22	7,408625E+22
-1633	3,125294E+22	3,125370E+22	5,789977E+21	5,789296E+21	6,250663E+22	1,157927E+22	7,408590E+22
-1632	3,125439E+22	3,125394E+22	5,789364E+21	5,789864E+21	6,250834E+22	1,157923E+22	7,408757E+22
-1631	3,125446E+22	3,125372E+22	5,789255E+21	5,789200E+21	6,250818E+22	1,157845E+22	7,408664E+22
-1630	3,125391E+22	3,125543E+22	5,789427E+21	5,788983E+21	6,250934E+22	1,157841E+22	7,408775E+22
-1629	3,125562E+22	3,125500E+22	5,788580E+21	5,789246E+21	6,251062E+22	1,157783E+22	7,408845E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1628	3,125522E+22	3,125537E+22	5,788862E+21	5,788342E+21	6,251059E+22	1,157720E+22	7,408779E+22
-1627	3,125564E+22	3,125662E+22	5,788742E+21	5,788541E+21	6,251226E+22	1,157728E+22	7,408954E+22
-1626	3,125691E+22	3,125555E+22	5,788098E+21	5,788569E+21	6,251246E+22	1,157667E+22	7,408913E+22
-1625	3,125558E+22	3,125638E+22	5,788691E+21	5,788047E+21	6,251196E+22	1,157674E+22	7,408870E+22
-1624	3,125617E+22	3,125666E+22	5,788413E+21	5,788860E+21	6,251283E+22	1,157727E+22	7,409010E+22
-1623	3,125627E+22	3,125534E+22	5,788374E+21	5,788693E+21	6,251161E+22	1,157707E+22	7,408868E+22
-1622	3,125486E+22	3,125599E+22	5,789138E+21	5,788638E+21	6,251084E+22	1,157778E+22	7,408862E+22
-1621	3,125569E+22	3,125483E+22	5,788843E+21	5,789486E+21	6,251052E+22	1,157833E+22	7,408885E+22
-1620	3,125470E+22	3,125391E+22	5,789466E+21	5,789217E+21	6,250861E+22	1,157868E+22	7,408729E+22
-1619	3,125328E+22	3,125462E+22	5,790011E+21	5,789727E+21	6,250790E+22	1,157974E+22	7,408763E+22
-1618	3,125382E+22	3,125278E+22	5,789586E+21	5,790371E+21	6,250660E+22	1,157996E+22	7,408655E+22
-1617	3,125214E+22	3,125255E+22	5,790359E+21	5,789879E+21	6,250469E+22	1,158024E+22	7,408493E+22
-1616	3,125214E+22	3,125287E+22	5,790336E+21	5,790497E+21	6,250501E+22	1,158083E+22	7,408585E+22
-1615	3,125299E+22	3,125152E+22	5,790010E+21	5,790359E+21	6,250451E+22	1,158037E+22	7,408488E+22
-1614	3,125173E+22	3,125270E+22	5,790552E+21	5,789837E+21	6,250443E+22	1,158039E+22	7,408482E+22
-1613	3,125284E+22	3,125276E+22	5,789938E+21	5,790434E+21	6,250560E+22	1,158037E+22	7,408597E+22
-1612	3,125315E+22	3,125250E+22	5,789831E+21	5,789781E+21	6,250565E+22	1,157961E+22	7,408526E+22
-1611	3,125250E+22	3,125426E+22	5,790002E+21	5,789492E+21	6,250676E+22	1,157949E+22	7,408626E+22
-1610	3,125445E+22	3,125354E+22	5,789089E+21	5,789755E+21	6,250799E+22	1,157884E+22	7,408684E+22
-1609	3,125418E+22	3,125388E+22	5,789346E+21	5,788819E+21	6,250806E+22	1,157816E+22	7,408622E+22
-1608	3,125420E+22	3,125530E+22	5,789322E+21	5,789134E+21	6,250950E+22	1,157846E+22	7,408796E+22
-1607	3,125543E+22	3,125439E+22	5,788684E+21	5,789225E+21	6,250982E+22	1,157791E+22	7,408773E+22
-1606	3,125408E+22	3,125512E+22	5,789271E+21	5,788738E+21	6,250920E+22	1,157801E+22	7,408721E+22
-1605	3,125457E+22	3,125493E+22	5,789076E+21	5,789517E+21	6,250950E+22	1,157859E+22	7,408809E+22
-1604	3,125501E+22	3,125358E+22	5,789104E+21	5,789341E+21	6,250859E+22	1,157844E+22	7,408704E+22
-1603	3,125336E+22	3,125448E+22	5,789914E+21	5,789293E+21	6,250784E+22	1,157921E+22	7,408704E+22
-1602	3,125412E+22	3,125324E+22	5,789545E+21	5,790244E+21	6,250735E+22	1,157979E+22	7,408714E+22
-1601	3,125301E+22	3,125229E+22	5,790106E+21	5,789955E+21	6,250529E+22	1,158006E+22	7,408535E+22
-1600	3,125137E+22	3,125304E+22	5,790716E+21	5,790470E+21	6,250441E+22	1,158119E+22	7,408560E+22
-1599	3,125222E+22	3,125125E+22	5,790277E+21	5,791018E+21	6,250346E+22	1,158129E+22	7,408476E+22
-1598	3,125073E+22	3,125106E+22	5,791018E+21	5,790473E+21	6,250180E+22	1,158149E+22	7,408329E+22
-1597	3,125068E+22	3,125119E+22	5,791031E+21	5,791083E+21	6,250187E+22	1,158211E+22	7,408398E+22
-1596	3,125166E+22	3,125006E+22	5,790677E+21	5,790997E+21	6,250172E+22	1,158167E+22	7,408340E+22
-1595	3,125012E+22	3,125157E+22	5,791160E+21	5,790482E+21	6,250170E+22	1,158164E+22	7,408334E+22
-1594	3,125147E+22	3,125136E+22	5,790433E+21	5,791062E+21	6,250283E+22	1,158149E+22	7,408432E+22
-1593	3,125199E+22	3,125103E+22	5,790267E+21	5,790249E+21	6,250303E+22	1,158052E+22	7,408354E+22
-1592	3,125130E+22	3,125296E+22	5,790530E+21	5,789934E+21	6,250426E+22	1,158046E+22	7,408472E+22
-1591	3,125334E+22	3,125244E+22	5,789638E+21	5,790198E+21	6,250578E+22	1,157984E+22	7,408562E+22
-1590	3,125287E+22	3,125289E+22	5,789877E+21	5,789381E+21	6,250576E+22	1,157926E+22	7,408502E+22
-1589	3,125255E+22	3,125391E+22	5,789916E+21	5,789780E+21	6,250646E+22	1,157970E+22	7,408615E+22
-1588	3,125399E+22	3,125288E+22	5,789317E+21	5,789918E+21	6,250688E+22	1,157924E+22	7,408611E+22
-1587	3,125262E+22	3,125367E+22	5,789927E+21	5,789387E+21	6,250628E+22	1,157931E+22	7,408560E+22
-1586	3,125334E+22	3,125317E+22	5,789715E+21	5,790168E+21	6,250651E+22	1,157988E+22	7,408640E+22
-1585	3,125379E+22	3,125190E+22	5,789752E+21	5,789967E+21	6,250569E+22	1,157972E+22	7,408541E+22
-1584	3,125165E+22	3,125305E+22	5,790661E+21	5,790022E+21	6,250470E+22	1,158068E+22	7,408538E+22
-1583	3,125227E+22	3,125191E+22	5,790295E+21	5,790996E+21	6,250417E+22	1,158129E+22	7,408546E+22
-1582	3,125119E+22	3,125081E+22	5,790828E+21	5,790711E+21	6,250200E+22	1,158154E+22	7,408354E+22
-1581	3,124948E+22	3,125108E+22	5,791483E+21	5,791153E+21	6,250055E+22	1,158264E+22	7,408319E+22
-1580	3,125074E+22	3,124939E+22	5,791040E+21	5,791673E+21	6,250013E+22	1,158271E+22	7,408284E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1579	3,124923E+22	3,124952E+22	5,791718E+21	5,791110E+21	6,249875E+22	1,158283E+22	7,408158E+22
-1578	3,124923E+22	3,124965E+22	5,791606E+21	5,791772E+21	6,249888E+22	1,158338E+22	7,408226E+22
-1577	3,125030E+22	3,124871E+22	5,791158E+21	5,791610E+21	6,249901E+22	1,158277E+22	7,408178E+22
-1576	3,124869E+22	3,125038E+22	5,791687E+21	5,791049E+21	6,249907E+22	1,158274E+22	7,408180E+22
-1575	3,125028E+22	3,125028E+22	5,790962E+21	5,791505E+21	6,250056E+22	1,158247E+22	7,408303E+22
-1574	3,125093E+22	3,124994E+22	5,790786E+21	5,790679E+21	6,250088E+22	1,158146E+22	7,408234E+22
-1573	3,124993E+22	3,125154E+22	5,791130E+21	5,790431E+21	6,250148E+22	1,158156E+22	7,408304E+22
-1572	3,125194E+22	3,125117E+22	5,790243E+21	5,790818E+21	6,250311E+22	1,158106E+22	7,408417E+22
-1571	3,125127E+22	3,125165E+22	5,790459E+21	5,790060E+21	6,250292E+22	1,158052E+22	7,408344E+22
-1570	3,125121E+22	3,125225E+22	5,790451E+21	5,790468E+21	6,250346E+22	1,158092E+22	7,408438E+22
-1569	3,125288E+22	3,125120E+22	5,789848E+21	5,790480E+21	6,250408E+22	1,158033E+22	7,408441E+22
-1568	3,125139E+22	3,125222E+22	5,790578E+21	5,789958E+21	6,250361E+22	1,158054E+22	7,408414E+22
-1567	3,125203E+22	3,125197E+22	5,790414E+21	5,790750E+21	6,250400E+22	1,158116E+22	7,408516E+22
-1566	3,125213E+22	3,125077E+22	5,790453E+21	5,790666E+21	6,250291E+22	1,158112E+22	7,408403E+22
-1565	3,124959E+22	3,125144E+22	5,791449E+21	5,790802E+21	6,250103E+22	1,158225E+22	7,408328E+22
-1564	3,125035E+22	3,125015E+22	5,791094E+21	5,791777E+21	6,250050E+22	1,158287E+22	7,408337E+22
-1563	3,124933E+22	3,124902E+22	5,791601E+21	5,791449E+21	6,249836E+22	1,158305E+22	7,408141E+22
-1562	3,124804E+22	3,124898E+22	5,792160E+21	5,791875E+21	6,249702E+22	1,158404E+22	7,408106E+22
-1561	3,124943E+22	3,124754E+22	5,791647E+21	5,792331E+21	6,249697E+22	1,158398E+22	7,408095E+22
-1560	3,124771E+22	3,124817E+22	5,792320E+21	5,791808E+21	6,249588E+22	1,158413E+22	7,408001E+22
-1559	3,124781E+22	3,124852E+22	5,792171E+21	5,792389E+21	6,249633E+22	1,158456E+22	7,408089E+22
-1558	3,124897E+22	3,124763E+22	5,791691E+21	5,792145E+21	6,249660E+22	1,158384E+22	7,408044E+22
-1557	3,124728E+22	3,124893E+22	5,792295E+21	5,791512E+21	6,249621E+22	1,158381E+22	7,408002E+22
-1556	3,124904E+22	3,124895E+22	5,791594E+21	5,791953E+21	6,249799E+22	1,158355E+22	7,408154E+22
-1555	3,124952E+22	3,124879E+22	5,791390E+21	5,791206E+21	6,249831E+22	1,158260E+22	7,408091E+22
-1554	3,124856E+22	3,125009E+22	5,791636E+21	5,791073E+21	6,249865E+22	1,158271E+22	7,408136E+22
-1553	3,125065E+22	3,124973E+22	5,790707E+21	5,791437E+21	6,250038E+22	1,158214E+22	7,408252E+22
-1552	3,124997E+22	3,125034E+22	5,790978E+21	5,790676E+21	6,250031E+22	1,158165E+22	7,408196E+22
-1551	3,125012E+22	3,125101E+22	5,791016E+21	5,790989E+21	6,250113E+22	1,158201E+22	7,408313E+22
-1550	3,125180E+22	3,125001E+22	5,790470E+21	5,791016E+21	6,250181E+22	1,158149E+22	7,408330E+22
-1549	3,124980E+22	3,125070E+22	5,791339E+21	5,790602E+21	6,250051E+22	1,158194E+22	7,408245E+22
-1548	3,125016E+22	3,125059E+22	5,791214E+21	5,791507E+21	6,250075E+22	1,158272E+22	7,408347E+22
-1547	3,125007E+22	3,124924E+22	5,791234E+21	5,791500E+21	6,249931E+22	1,158273E+22	7,408204E+22
-1546	3,124776E+22	3,124930E+22	5,792153E+21	5,791628E+21	6,249706E+22	1,158378E+22	7,408084E+22
-1545	3,124885E+22	3,124804E+22	5,791747E+21	5,792468E+21	6,249688E+22	1,158421E+22	7,408110E+22
-1544	3,124790E+22	3,124722E+22	5,792276E+21	5,792119E+21	6,249513E+22	1,158439E+22	7,407952E+22
-1543	3,124672E+22	3,124757E+22	5,792800E+21	5,792502E+21	6,249430E+22	1,158530E+22	7,407960E+22
-1542	3,124800E+22	3,124645E+22	5,792248E+21	5,792971E+21	6,249445E+22	1,158522E+22	7,407967E+22
-1541	3,124601E+22	3,124682E+22	5,792984E+21	5,792450E+21	6,249283E+22	1,158543E+22	7,407827E+22
-1540	3,124627E+22	3,124728E+22	5,792841E+21	5,792951E+21	6,249355E+22	1,158579E+22	7,407934E+22
-1539	3,124748E+22	3,124637E+22	5,792336E+21	5,792664E+21	6,249385E+22	1,158500E+22	7,407885E+22
-1538	3,124606E+22	3,124724E+22	5,792862E+21	5,792060E+21	6,249331E+22	1,158492E+22	7,407823E+22
-1537	3,124781E+22	3,124744E+22	5,792096E+21	5,792494E+21	6,249524E+22	1,158459E+22	7,407983E+22
-1536	3,124809E+22	3,124758E+22	5,791886E+21	5,791854E+21	6,249567E+22	1,158374E+22	7,407941E+22
-1535	3,124735E+22	3,124891E+22	5,792102E+21	5,791678E+21	6,249626E+22	1,158378E+22	7,408004E+22
-1534	3,124954E+22	3,124856E+22	5,791195E+21	5,791965E+21	6,249810E+22	1,158316E+22	7,408126E+22
-1533	3,124876E+22	3,124887E+22	5,791593E+21	5,791189E+21	6,249763E+22	1,158278E+22	7,408041E+22
-1532	3,124887E+22	3,124971E+22	5,791711E+21	5,791503E+21	6,249858E+22	1,158321E+22	7,408179E+22
-1531	3,125015E+22	3,124882E+22	5,791200E+21	5,791661E+21	6,249897E+22	1,158286E+22	7,408183E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1530	3,124806E+22	3,124903E+22	5,792019E+21	5,791400E+21	6,249708E+22	1,158342E+22	7,408050E+22
-1529	3,124837E+22	3,124877E+22	5,791873E+21	5,792272E+21	6,249715E+22	1,158414E+22	7,408129E+22
-1528	3,124832E+22	3,124748E+22	5,791922E+21	5,792273E+21	6,249580E+22	1,158420E+22	7,408000E+22
-1527	3,124640E+22	3,124750E+22	5,792818E+21	5,792289E+21	6,249390E+22	1,158511E+22	7,407901E+22
-1526	3,124757E+22	3,124643E+22	5,792422E+21	5,793093E+21	6,249400E+22	1,158552E+22	7,407951E+22
-1525	3,124629E+22	3,124560E+22	5,793026E+21	5,792818E+21	6,249189E+22	1,158584E+22	7,407773E+22
-1524	3,124496E+22	3,124629E+22	5,793546E+21	5,793217E+21	6,249125E+22	1,158676E+22	7,407802E+22
-1523	3,124616E+22	3,124520E+22	5,792984E+21	5,793684E+21	6,249136E+22	1,158667E+22	7,407802E+22
-1522	3,124447E+22	3,124506E+22	5,793623E+21	5,793111E+21	6,248953E+22	1,158673E+22	7,407626E+22
-1521	3,124496E+22	3,124558E+22	5,793418E+21	5,793460E+21	6,249054E+22	1,158688E+22	7,407742E+22
-1520	3,124617E+22	3,124498E+22	5,792892E+21	5,793198E+21	6,249115E+22	1,158609E+22	7,407724E+22
-1519	3,124487E+22	3,124603E+22	5,793339E+21	5,792598E+21	6,249090E+22	1,158594E+22	7,407684E+22
-1518	3,124658E+22	3,124643E+22	5,792541E+21	5,793051E+21	6,249301E+22	1,158559E+22	7,407860E+22
-1517	3,124670E+22	3,124627E+22	5,792418E+21	5,792433E+21	6,249297E+22	1,158485E+22	7,407782E+22
-1516	3,124610E+22	3,124775E+22	5,792677E+21	5,792189E+21	6,249385E+22	1,158487E+22	7,407871E+22
-1515	3,124833E+22	3,124737E+22	5,791828E+21	5,792472E+21	6,249570E+22	1,158430E+22	7,408000E+22
-1514	3,124758E+22	3,124721E+22	5,792213E+21	5,791786E+21	6,249479E+22	1,158400E+22	7,407879E+22
-1513	3,124743E+22	3,124820E+22	5,792328E+21	5,792135E+21	6,249563E+22	1,158446E+22	7,408009E+22
-1512	3,124837E+22	3,124744E+22	5,791847E+21	5,792428E+21	6,249581E+22	1,158427E+22	7,408008E+22
-1511	3,124646E+22	3,124742E+22	5,792654E+21	5,792146E+21	6,249388E+22	1,158480E+22	7,407868E+22
-1510	3,124689E+22	3,124712E+22	5,792522E+21	5,792928E+21	6,249401E+22	1,158545E+22	7,407946E+22
-1509	3,124675E+22	3,124558E+22	5,792682E+21	5,792933E+21	6,249233E+22	1,158561E+22	7,407794E+22
-1508	3,124488E+22	3,124594E+22	5,793596E+21	5,792939E+21	6,249082E+22	1,158654E+22	7,407735E+22
-1507	3,124581E+22	3,124509E+22	5,793209E+21	5,793830E+21	6,249090E+22	1,158704E+22	7,407793E+22
-1506	3,124455E+22	3,124392E+22	5,793727E+21	5,793634E+21	6,248846E+22	1,158736E+22	7,407582E+22
-1505	3,124330E+22	3,124465E+22	5,794194E+21	5,793918E+21	6,248795E+22	1,158811E+22	7,407606E+22
-1504	3,124455E+22	3,124373E+22	5,793624E+21	5,794338E+21	6,248828E+22	1,158796E+22	7,407624E+22
-1503	3,124330E+22	3,124352E+22	5,794193E+21	5,793659E+21	6,248682E+22	1,158785E+22	7,407467E+22
-1502	3,124378E+22	3,124422E+22	5,793954E+21	5,793941E+21	6,248800E+22	1,158790E+22	7,407589E+22
-1501	3,124467E+22	3,124362E+22	5,793474E+21	5,793786E+21	6,248829E+22	1,158726E+22	7,407555E+22
-1500	3,124340E+22	3,124489E+22	5,793884E+21	5,793188E+21	6,248830E+22	1,158707E+22	7,407537E+22
-1499	3,124513E+22	3,124526E+22	5,793116E+21	5,793637E+21	6,249040E+22	1,158675E+22	7,407715E+22
-1498	3,124558E+22	3,124466E+22	5,792940E+21	5,792992E+21	6,249024E+22	1,158593E+22	7,407617E+22
-1497	3,124510E+22	3,124623E+22	5,793208E+21	5,792639E+21	6,249133E+22	1,158585E+22	7,407718E+22
-1496	3,124708E+22	3,124617E+22	5,792419E+21	5,793001E+21	6,249326E+22	1,158542E+22	7,407868E+22
-1495	3,124628E+22	3,124601E+22	5,792778E+21	5,792402E+21	6,249229E+22	1,158518E+22	7,407747E+22
-1494	3,124585E+22	3,124699E+22	5,792919E+21	5,792778E+21	6,249284E+22	1,158570E+22	7,407853E+22
-1493	3,124655E+22	3,124585E+22	5,792559E+21	5,793155E+21	6,249239E+22	1,158571E+22	7,407811E+22
-1492	3,124479E+22	3,124582E+22	5,793395E+21	5,792823E+21	6,249061E+22	1,158622E+22	7,407683E+22
-1491	3,124531E+22	3,124545E+22	5,793326E+21	5,793621E+21	6,249076E+22	1,158695E+22	7,407771E+22
-1490	3,124524E+22	3,124356E+22	5,793433E+21	5,793713E+21	6,248880E+22	1,158715E+22	7,407595E+22
-1489	3,124323E+22	3,124421E+22	5,794296E+21	5,793723E+21	6,248744E+22	1,158802E+22	7,407546E+22
-1488	3,124397E+22	3,124363E+22	5,793913E+21	5,794658E+21	6,248760E+22	1,158857E+22	7,407617E+22
-1487	3,124302E+22	3,124233E+22	5,794364E+21	5,794365E+21	6,248535E+22	1,158873E+22	7,407408E+22
-1486	3,124193E+22	3,124317E+22	5,794801E+21	5,794467E+21	6,248510E+22	1,158927E+22	7,407436E+22
-1485	3,124308E+22	3,124209E+22	5,794302E+21	5,794862E+21	6,248517E+22	1,158916E+22	7,407433E+22
-1484	3,124182E+22	3,124223E+22	5,794836E+21	5,794167E+21	6,248405E+22	1,158900E+22	7,407305E+22
-1483	3,124220E+22	3,124308E+22	5,794575E+21	5,794535E+21	6,248529E+22	1,158911E+22	7,407440E+22
-1482	3,124321E+22	3,124209E+22	5,794001E+21	5,794447E+21	6,248530E+22	1,158845E+22	7,407374E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1481	3,124218E+22	3,124347E+22	5,794356E+21	5,793750E+21	6,248565E+22	1,158811E+22	7,407376E+22
-1480	3,124401E+22	3,124404E+22	5,793627E+21	5,794150E+21	6,248804E+22	1,158778E+22	7,407582E+22
-1479	3,124476E+22	3,124337E+22	5,793431E+21	5,793461E+21	6,248813E+22	1,158689E+22	7,407502E+22
-1478	3,124406E+22	3,124512E+22	5,793733E+21	5,793094E+21	6,248918E+22	1,158683E+22	7,407600E+22
-1477	3,124543E+22	3,124495E+22	5,793067E+21	5,793627E+21	6,249038E+22	1,158669E+22	7,407707E+22
-1476	3,124449E+22	3,124480E+22	5,793457E+21	5,793097E+21	6,248929E+22	1,158655E+22	7,407585E+22
-1475	3,124406E+22	3,124550E+22	5,793659E+21	5,793508E+21	6,248956E+22	1,158717E+22	7,407673E+22
-1474	3,124500E+22	3,124379E+22	5,793262E+21	5,793901E+21	6,248879E+22	1,158716E+22	7,407595E+22
-1473	3,124344E+22	3,124384E+22	5,794067E+21	5,793499E+21	6,248729E+22	1,158757E+22	7,407485E+22
-1472	3,124377E+22	3,124385E+22	5,794034E+21	5,794358E+21	6,248761E+22	1,158839E+22	7,407601E+22
-1471	3,124379E+22	3,124206E+22	5,794079E+21	5,794491E+21	6,248586E+22	1,158857E+22	7,407443E+22
-1470	3,124164E+22	3,124281E+22	5,794943E+21	5,794416E+21	6,248444E+22	1,158936E+22	7,407380E+22
-1469	3,124214E+22	3,124209E+22	5,794674E+21	5,795348E+21	6,248423E+22	1,159002E+22	7,407425E+22
-1468	3,124137E+22	3,124089E+22	5,795110E+21	5,794953E+21	6,248226E+22	1,159006E+22	7,407233E+22
-1467	3,124033E+22	3,124164E+22	5,795563E+21	5,795046E+21	6,248197E+22	1,159061E+22	7,407258E+22
-1466	3,124151E+22	3,124029E+22	5,794960E+21	5,795524E+21	6,248180E+22	1,159048E+22	7,407229E+22
-1465	3,124029E+22	3,124064E+22	5,795384E+21	5,794830E+21	6,248093E+22	1,159021E+22	7,407114E+22
-1464	3,124068E+22	3,124175E+22	5,795113E+21	5,795208E+21	6,248243E+22	1,159032E+22	7,407275E+22
-1463	3,124217E+22	3,124071E+22	5,794459E+21	5,795021E+21	6,248288E+22	1,158948E+22	7,407236E+22
-1462	3,124130E+22	3,124226E+22	5,794803E+21	5,794152E+21	6,248356E+22	1,158895E+22	7,407251E+22
-1461	3,124286E+22	3,124284E+22	5,794214E+21	5,794579E+21	6,248570E+22	1,158879E+22	7,407450E+22
-1460	3,124340E+22	3,124246E+22	5,794036E+21	5,793942E+21	6,248586E+22	1,158798E+22	7,407384E+22
-1459	3,124241E+22	3,124411E+22	5,794397E+21	5,793726E+21	6,248652E+22	1,158812E+22	7,407464E+22
-1458	3,124369E+22	3,124333E+22	5,793701E+21	5,794367E+21	6,248702E+22	1,158807E+22	7,407509E+22
-1457	3,124294E+22	3,124305E+22	5,794070E+21	5,793811E+21	6,248599E+22	1,158788E+22	7,407387E+22
-1456	3,124265E+22	3,124377E+22	5,794323E+21	5,794201E+21	6,248642E+22	1,158852E+22	7,407494E+22
-1455	3,124389E+22	3,124198E+22	5,793893E+21	5,794577E+21	6,248586E+22	1,158847E+22	7,407433E+22
-1454	3,124217E+22	3,124234E+22	5,794690E+21	5,794145E+21	6,248451E+22	1,158884E+22	7,407335E+22
-1453	3,124196E+22	3,124239E+22	5,794780E+21	5,795112E+21	6,248435E+22	1,158989E+22	7,407425E+22
-1452	3,124187E+22	3,124075E+22	5,794856E+21	5,795226E+21	6,248262E+22	1,159008E+22	7,407270E+22
-1451	3,123980E+22	3,124132E+22	5,795767E+21	5,795130E+21	6,248112E+22	1,159090E+22	7,407201E+22
-1450	3,124042E+22	3,124009E+22	5,795444E+21	5,796022E+21	6,248051E+22	1,159147E+22	7,407198E+22
-1449	3,123983E+22	3,123903E+22	5,795799E+21	5,795583E+21	6,247886E+22	1,159138E+22	7,407024E+22
-1448	3,123870E+22	3,124009E+22	5,796204E+21	5,795719E+21	6,247879E+22	1,159192E+22	7,407072E+22
-1447	3,124011E+22	3,123882E+22	5,795468E+21	5,796220E+21	6,247893E+22	1,159169E+22	7,407062E+22
-1446	3,123904E+22	3,123938E+22	5,795822E+21	5,795405E+21	6,247842E+22	1,159123E+22	7,406965E+22
-1445	3,123937E+22	3,124049E+22	5,795660E+21	5,795746E+21	6,247986E+22	1,159141E+22	7,407127E+22
-1444	3,124104E+22	3,123971E+22	5,795032E+21	5,795448E+21	6,248074E+22	1,159048E+22	7,407122E+22
-1443	3,124017E+22	3,124119E+22	5,795440E+21	5,794616E+21	6,248136E+22	1,159006E+22	7,407142E+22
-1442	3,124142E+22	3,124145E+22	5,794824E+21	5,795161E+21	6,248287E+22	1,158999E+22	7,407285E+22
-1441	3,124183E+22	3,124108E+22	5,794597E+21	5,794615E+21	6,248291E+22	1,158921E+22	7,407212E+22
-1440	3,124074E+22	3,124265E+22	5,794997E+21	5,794448E+21	6,248339E+22	1,158945E+22	7,407284E+22
-1439	3,124244E+22	3,124164E+22	5,794253E+21	5,795048E+21	6,248408E+22	1,158930E+22	7,407338E+22
-1438	3,124188E+22	3,124137E+22	5,794614E+21	5,794346E+21	6,248325E+22	1,158896E+22	7,407221E+22
-1437	3,124127E+22	3,124219E+22	5,795023E+21	5,794796E+21	6,248347E+22	1,158982E+22	7,407329E+22
-1436	3,124231E+22	3,124079E+22	5,794623E+21	5,795214E+21	6,248310E+22	1,158984E+22	7,407293E+22
-1435	3,124035E+22	3,124108E+22	5,795487E+21	5,794904E+21	6,248143E+22	1,159039E+22	7,407182E+22
-1434	3,123997E+22	3,124066E+22	5,795573E+21	5,795918E+21	6,248063E+22	1,159149E+22	7,407212E+22
-1433	3,124005E+22	3,123894E+22	5,795614E+21	5,795986E+21	6,247900E+22	1,159160E+22	7,407060E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1432	3,123809E+22	3,123949E+22	5,796534E+21	5,795849E+21	6,247758E+22	1,159238E+22	7,406996E+22
-1431	3,123902E+22	3,123820E+22	5,796101E+21	5,796718E+21	6,247723E+22	1,159282E+22	7,407005E+22
-1430	3,123840E+22	3,123743E+22	5,796354E+21	5,796228E+21	6,247583E+22	1,159258E+22	7,406841E+22
-1429	3,123701E+22	3,123864E+22	5,796810E+21	5,796425E+21	6,247565E+22	1,159324E+22	7,406889E+22
-1428	3,123859E+22	3,123767E+22	5,796061E+21	5,796822E+21	6,247625E+22	1,159288E+22	7,406914E+22
-1427	3,123783E+22	3,123819E+22	5,796436E+21	5,795946E+21	6,247602E+22	1,159238E+22	7,406840E+22
-1426	3,123820E+22	3,123899E+22	5,796252E+21	5,796224E+21	6,247719E+22	1,159248E+22	7,406967E+22
-1425	3,123987E+22	3,123842E+22	5,795589E+21	5,795921E+21	6,247829E+22	1,159151E+22	7,406980E+22
-1424	3,123877E+22	3,124005E+22	5,796008E+21	5,795192E+21	6,247882E+22	1,159120E+22	7,407002E+22
-1423	3,124003E+22	3,124012E+22	5,795317E+21	5,795790E+21	6,248015E+22	1,159111E+22	7,407126E+22
-1422	3,124050E+22	3,123974E+22	5,795065E+21	5,795194E+21	6,248024E+22	1,159026E+22	7,407050E+22
-1421	3,123935E+22	3,124113E+22	5,795591E+21	5,795047E+21	6,248048E+22	1,159064E+22	7,407112E+22
-1420	3,124114E+22	3,124028E+22	5,794912E+21	5,795581E+21	6,248142E+22	1,159049E+22	7,407191E+22
-1419	3,124060E+22	3,124001E+22	5,795340E+21	5,794974E+21	6,248060E+22	1,159031E+22	7,407092E+22
-1418	3,123958E+22	3,124055E+22	5,795752E+21	5,795539E+21	6,248012E+22	1,159129E+22	7,407141E+22
-1417	3,124044E+22	3,123923E+22	5,795352E+21	5,796033E+21	6,247967E+22	1,159139E+22	7,407105E+22
-1416	3,123845E+22	3,123940E+22	5,796265E+21	5,795744E+21	6,247785E+22	1,159201E+22	7,406986E+22
-1415	3,123838E+22	3,123874E+22	5,796279E+21	5,796674E+21	6,247712E+22	1,159295E+22	7,407007E+22
-1414	3,123865E+22	3,123710E+22	5,796262E+21	5,796610E+21	6,247575E+22	1,159287E+22	7,406862E+22
-1413	3,123646E+22	3,123775E+22	5,797246E+21	5,796519E+21	6,247421E+22	1,159377E+22	7,406797E+22
-1412	3,123731E+22	3,123689E+22	5,796782E+21	5,797367E+21	6,247420E+22	1,159415E+22	7,406835E+22
-1411	3,123679E+22	3,123614E+22	5,797022E+21	5,796930E+21	6,247293E+22	1,159395E+22	7,406688E+22
-1410	3,123542E+22	3,123706E+22	5,797439E+21	5,797093E+21	6,247248E+22	1,159453E+22	7,406701E+22
-1409	3,123730E+22	3,123623E+22	5,796662E+21	5,797391E+21	6,247354E+22	1,159405E+22	7,406759E+22
-1408	3,123665E+22	3,123683E+22	5,797049E+21	5,796460E+21	6,247348E+22	1,159351E+22	7,406699E+22
-1407	3,123716E+22	3,123763E+22	5,796777E+21	5,796733E+21	6,247479E+22	1,159351E+22	7,406830E+22
-1406	3,123861E+22	3,123723E+22	5,796040E+21	5,796424E+21	6,247584E+22	1,159246E+22	7,406830E+22
-1405	3,123713E+22	3,123879E+22	5,796555E+21	5,795818E+21	6,247592E+22	1,159237E+22	7,406829E+22
-1404	3,123848E+22	3,123896E+22	5,795895E+21	5,796355E+21	6,247744E+22	1,159225E+22	7,406969E+22
-1403	3,123924E+22	3,123835E+22	5,795697E+21	5,795773E+21	6,247759E+22	1,159147E+22	7,406906E+22
-1402	3,123805E+22	3,123940E+22	5,796233E+21	5,795635E+21	6,247745E+22	1,159187E+22	7,406932E+22
-1401	3,123979E+22	3,123876E+22	5,795570E+21	5,796217E+21	6,247855E+22	1,159179E+22	7,407034E+22
-1400	3,123898E+22	3,123861E+22	5,796029E+21	5,795726E+21	6,247759E+22	1,159176E+22	7,406935E+22
-1399	3,123798E+22	3,123897E+22	5,796391E+21	5,796325E+21	6,247695E+22	1,159272E+22	7,406966E+22
-1398	3,123884E+22	3,123763E+22	5,795984E+21	5,796740E+21	6,247647E+22	1,159272E+22	7,406920E+22
-1397	3,123676E+22	3,123767E+22	5,797021E+21	5,796466E+21	6,247443E+22	1,159349E+22	7,406792E+22
-1396	3,123676E+22	3,123716E+22	5,797060E+21	5,797287E+21	6,247392E+22	1,159435E+22	7,406827E+22
-1395	3,123709E+22	3,123552E+22	5,797051E+21	5,797317E+21	6,247261E+22	1,159437E+22	7,406697E+22
-1394	3,123460E+22	3,123595E+22	5,797959E+21	5,797295E+21	6,247055E+22	1,159525E+22	7,406581E+22
-1393	3,123553E+22	3,123528E+22	5,797456E+21	5,798138E+21	6,247080E+22	1,159559E+22	7,406640E+22
-1392	3,123527E+22	3,123460E+22	5,797684E+21	5,797639E+21	6,246986E+22	1,159532E+22	7,406519E+22
-1391	3,123432E+22	3,123542E+22	5,797997E+21	5,797653E+21	6,246974E+22	1,159565E+22	7,406539E+22
-1390	3,123629E+22	3,123489E+22	5,797166E+21	5,797804E+21	6,247117E+22	1,159497E+22	7,406614E+22
-1389	3,123534E+22	3,123565E+22	5,797608E+21	5,796958E+21	6,247099E+22	1,159457E+22	7,406556E+22
-1388	3,123558E+22	3,123673E+22	5,797329E+21	5,797221E+21	6,247231E+22	1,159455E+22	7,406686E+22
-1387	3,123710E+22	3,123618E+22	5,796608E+21	5,797031E+21	6,247328E+22	1,159364E+22	7,406692E+22
-1386	3,123559E+22	3,123721E+22	5,797114E+21	5,796445E+21	6,247280E+22	1,159356E+22	7,406636E+22
-1385	3,123721E+22	3,123740E+22	5,796484E+21	5,796942E+21	6,247461E+22	1,159343E+22	7,406804E+22
-1384	3,123811E+22	3,123680E+22	5,796329E+21	5,796379E+21	6,247490E+22	1,159271E+22	7,406761E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1383	3,123694E+22	3,123781E+22	5,796797E+21	5,796282E+21	6,247476E+22	1,159308E+22	7,406784E+22
-1382	3,123839E+22	3,123741E+22	5,796120E+21	5,796871E+21	6,247580E+22	1,159299E+22	7,406879E+22
-1381	3,123723E+22	3,123717E+22	5,796708E+21	5,796495E+21	6,247441E+22	1,159320E+22	7,406761E+22
-1380	3,123622E+22	3,123759E+22	5,797143E+21	5,796983E+21	6,247381E+22	1,159413E+22	7,406794E+22
-1379	3,123729E+22	3,123603E+22	5,796792E+21	5,797413E+21	6,247333E+22	1,159420E+22	7,406753E+22
-1378	3,123504E+22	3,123568E+22	5,797827E+21	5,797163E+21	6,247072E+22	1,159499E+22	7,406571E+22
-1377	3,123499E+22	3,123539E+22	5,797839E+21	5,798025E+21	6,247039E+22	1,159586E+22	7,406625E+22
-1376	3,123522E+22	3,123386E+22	5,797800E+21	5,798125E+21	6,246908E+22	1,159592E+22	7,406500E+22
-1375	3,123302E+22	3,123422E+22	5,798569E+21	5,798081E+21	6,246723E+22	1,159665E+22	7,406388E+22
-1374	3,123416E+22	3,123371E+22	5,798012E+21	5,798757E+21	6,246787E+22	1,159677E+22	7,406464E+22
-1373	3,123390E+22	3,123315E+22	5,798309E+21	5,798219E+21	6,246705E+22	1,159653E+22	7,406358E+22
-1372	3,123306E+22	3,123429E+22	5,798624E+21	5,798089E+21	6,246735E+22	1,159671E+22	7,406407E+22
-1371	3,123497E+22	3,123380E+22	5,797790E+21	5,798329E+21	6,246877E+22	1,159612E+22	7,406489E+22
-1370	3,123362E+22	3,123427E+22	5,798182E+21	5,797590E+21	6,246789E+22	1,159577E+22	7,406366E+22
-1369	3,123393E+22	3,123533E+22	5,797893E+21	5,797865E+21	6,246927E+22	1,159576E+22	7,406502E+22
-1368	3,123570E+22	3,123468E+22	5,797189E+21	5,797660E+21	6,247038E+22	1,159485E+22	7,406523E+22
-1367	3,123466E+22	3,123553E+22	5,797591E+21	5,797004E+21	6,247019E+22	1,159460E+22	7,406478E+22
-1366	3,123633E+22	3,123595E+22	5,796961E+21	5,797407E+21	6,247227E+22	1,159437E+22	7,406664E+22
-1365	3,123686E+22	3,123559E+22	5,796904E+21	5,796971E+21	6,247245E+22	1,159388E+22	7,406632E+22
-1364	3,123542E+22	3,123683E+22	5,797426E+21	5,796859E+21	6,247225E+22	1,159428E+22	7,406654E+22
-1363	3,123679E+22	3,123626E+22	5,796838E+21	5,797554E+21	6,247305E+22	1,159439E+22	7,406744E+22
-1362	3,123541E+22	3,123548E+22	5,797471E+21	5,797230E+21	6,247088E+22	1,159470E+22	7,406559E+22
-1361	3,123448E+22	3,123581E+22	5,797953E+21	5,797687E+21	6,247029E+22	1,159564E+22	7,406593E+22
-1360	3,123564E+22	3,123417E+22	5,797628E+21	5,798174E+21	6,246981E+22	1,159580E+22	7,406561E+22
-1359	3,123346E+22	3,123367E+22	5,798510E+21	5,797970E+21	6,246712E+22	1,159648E+22	7,406360E+22
-1358	3,123327E+22	3,123363E+22	5,798456E+21	5,798793E+21	6,246690E+22	1,159725E+22	7,406415E+22
-1357	3,123347E+22	3,123223E+22	5,798460E+21	5,798926E+21	6,246570E+22	1,159739E+22	7,406309E+22
-1356	3,123151E+22	3,123281E+22	5,799231E+21	5,798679E+21	6,246432E+22	1,159791E+22	7,406223E+22
-1355	3,123293E+22	3,123239E+22	5,798704E+21	5,799301E+21	6,246532E+22	1,159800E+22	7,406333E+22
-1354	3,123243E+22	3,123165E+22	5,798974E+21	5,798763E+21	6,246408E+22	1,159774E+22	7,406182E+22
-1353	3,123147E+22	3,123301E+22	5,799258E+21	5,798653E+21	6,246448E+22	1,159791E+22	7,406239E+22
-1352	3,123330E+22	3,123252E+22	5,798399E+21	5,798969E+21	6,246582E+22	1,159737E+22	7,406319E+22
-1351	3,123224E+22	3,123269E+22	5,798651E+21	5,798238E+21	6,246493E+22	1,159689E+22	7,406181E+22
-1350	3,123280E+22	3,123384E+22	5,798336E+21	5,798381E+21	6,246664E+22	1,159672E+22	7,406336E+22
-1349	3,123464E+22	3,123330E+22	5,797718E+21	5,798188E+21	6,246794E+22	1,159591E+22	7,406385E+22
-1348	3,123369E+22	3,123442E+22	5,798152E+21	5,797446E+21	6,246811E+22	1,159560E+22	7,406371E+22
-1347	3,123515E+22	3,123495E+22	5,797584E+21	5,797968E+21	6,247010E+22	1,159555E+22	7,406565E+22
-1346	3,123509E+22	3,123428E+22	5,797563E+21	5,797671E+21	6,246937E+22	1,159523E+22	7,406460E+22
-1345	3,123362E+22	3,123540E+22	5,798161E+21	5,797582E+21	6,246902E+22	1,159574E+22	7,406476E+22
-1344	3,123504E+22	3,123456E+22	5,797641E+21	5,798278E+21	6,246960E+22	1,159592E+22	7,406552E+22
-1343	3,123394E+22	3,123346E+22	5,798175E+21	5,797958E+21	6,246740E+22	1,159613E+22	7,406353E+22
-1342	3,123301E+22	3,123389E+22	5,798617E+21	5,798357E+21	6,246690E+22	1,159697E+22	7,406388E+22
-1341	3,123384E+22	3,123249E+22	5,798326E+21	5,798967E+21	6,246633E+22	1,159729E+22	7,406362E+22
-1340	3,123171E+22	3,123224E+22	5,799173E+21	5,798700E+21	6,246395E+22	1,159787E+22	7,406183E+22
-1339	3,123170E+22	3,123220E+22	5,799161E+21	5,799522E+21	6,246390E+22	1,159868E+22	7,406259E+22
-1338	3,123178E+22	3,123058E+22	5,799187E+21	5,799614E+21	6,246236E+22	1,159880E+22	7,406116E+22
-1337	3,123005E+22	3,123128E+22	5,799980E+21	5,799267E+21	6,246132E+22	1,159925E+22	7,406057E+22
-1336	3,123145E+22	3,123092E+22	5,799461E+21	5,799897E+21	6,246237E+22	1,159936E+22	7,406173E+22
-1335	3,123094E+22	3,123009E+22	5,799543E+21	5,799427E+21	6,246103E+22	1,159897E+22	7,406000E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1334	3,122989E+22	3,123154E+22	5,799741E+21	5,799271E+21	6,246143E+22	1,159901E+22	7,406045E+22
-1333	3,123176E+22	3,123113E+22	5,798918E+21	5,799612E+21	6,246288E+22	1,159853E+22	7,406141E+22
-1332	3,123112E+22	3,123141E+22	5,799151E+21	5,798704E+21	6,246253E+22	1,159786E+22	7,406039E+22
-1331	3,123196E+22	3,123265E+22	5,798894E+21	5,798829E+21	6,246460E+22	1,159772E+22	7,406233E+22
-1330	3,123342E+22	3,123203E+22	5,798308E+21	5,798700E+21	6,246545E+22	1,159701E+22	7,406246E+22
-1329	3,123222E+22	3,123334E+22	5,798777E+21	5,798023E+21	6,246557E+22	1,159680E+22	7,406237E+22
-1328	3,123348E+22	3,123378E+22	5,798274E+21	5,798646E+21	6,246726E+22	1,159692E+22	7,406418E+22
-1327	3,123353E+22	3,123264E+22	5,798165E+21	5,798406E+21	6,246616E+22	1,159657E+22	7,406273E+22
-1326	3,123210E+22	3,123363E+22	5,798782E+21	5,798234E+21	6,246573E+22	1,159702E+22	7,406275E+22
-1325	3,123351E+22	3,123282E+22	5,798342E+21	5,798979E+21	6,246633E+22	1,159732E+22	7,406365E+22
-1324	3,123250E+22	3,123182E+22	5,798873E+21	5,798613E+21	6,246432E+22	1,159749E+22	7,406180E+22
-1323	3,123145E+22	3,123238E+22	5,799333E+21	5,799112E+21	6,246382E+22	1,159844E+22	7,406227E+22
-1322	3,123185E+22	3,123078E+22	5,799062E+21	5,799796E+21	6,246263E+22	1,159886E+22	7,406149E+22
-1321	3,122991E+22	3,123059E+22	5,799945E+21	5,799465E+21	6,246050E+22	1,159941E+22	7,405991E+22
-1320	3,123010E+22	3,123054E+22	5,799982E+21	5,800213E+21	6,246064E+22	1,160020E+22	7,406084E+22
-1319	3,123040E+22	3,122878E+22	5,799879E+21	5,800263E+21	6,245918E+22	1,160014E+22	7,405933E+22
-1318	3,122862E+22	3,122969E+22	5,800607E+21	5,799843E+21	6,245831E+22	1,160045E+22	7,405876E+22
-1317	3,122971E+22	3,122959E+22	5,800076E+21	5,800551E+21	6,245930E+22	1,160063E+22	7,405993E+22
-1316	3,122935E+22	3,122887E+22	5,800088E+21	5,800022E+21	6,245822E+22	1,160011E+22	7,405833E+22
-1315	3,122858E+22	3,123028E+22	5,800285E+21	5,799855E+21	6,245885E+22	1,160014E+22	7,405899E+22
-1314	3,123035E+22	3,122968E+22	5,799491E+21	5,800171E+21	6,246003E+22	1,159966E+22	7,405969E+22
-1313	3,123005E+22	3,123011E+22	5,799750E+21	5,799205E+21	6,246016E+22	1,159895E+22	7,405911E+22
-1312	3,123081E+22	3,123139E+22	5,799541E+21	5,799369E+21	6,246220E+22	1,159891E+22	7,406111E+22
-1311	3,123206E+22	3,123069E+22	5,798834E+21	5,799346E+21	6,246275E+22	1,159818E+22	7,406093E+22
-1310	3,123075E+22	3,123193E+22	5,799291E+21	5,798666E+21	6,246268E+22	1,159796E+22	7,406064E+22
-1309	3,123183E+22	3,123232E+22	5,798885E+21	5,799316E+21	6,246415E+22	1,159820E+22	7,406235E+22
-1308	3,123218E+22	3,123116E+22	5,798790E+21	5,798982E+21	6,246334E+22	1,159777E+22	7,406111E+22
-1307	3,123089E+22	3,123207E+22	5,799466E+21	5,798833E+21	6,246296E+22	1,159830E+22	7,406126E+22
-1306	3,123178E+22	3,123116E+22	5,799077E+21	5,799675E+21	6,246294E+22	1,159875E+22	7,406169E+22
-1305	3,123070E+22	3,123029E+22	5,799621E+21	5,799368E+21	6,246100E+22	1,159899E+22	7,405999E+22
-1304	3,122960E+22	3,123078E+22	5,800130E+21	5,799920E+21	6,246037E+22	1,160005E+22	7,406043E+22
-1303	3,123017E+22	3,122895E+22	5,799767E+21	5,800605E+21	6,245913E+22	1,160037E+22	7,405950E+22
-1302	3,122842E+22	3,122879E+22	5,800638E+21	5,800148E+21	6,245721E+22	1,160079E+22	7,405799E+22
-1301	3,122856E+22	3,122894E+22	5,800727E+21	5,800877E+21	6,245750E+22	1,160160E+22	7,405910E+22
-1300	3,122894E+22	3,122738E+22	5,800554E+21	5,800874E+21	6,245631E+22	1,160143E+22	7,405774E+22
-1299	3,122702E+22	3,122837E+22	5,801235E+21	5,800519E+21	6,245540E+22	1,160175E+22	7,405715E+22
-1298	3,122777E+22	3,122807E+22	5,800700E+21	5,801257E+21	6,245584E+22	1,160196E+22	7,405780E+22
-1297	3,122778E+22	3,122736E+22	5,800706E+21	5,800635E+21	6,245515E+22	1,160134E+22	7,405649E+22
-1296	3,122738E+22	3,122879E+22	5,800923E+21	5,800404E+21	6,245617E+22	1,160133E+22	7,405750E+22
-1295	3,122937E+22	3,122812E+22	5,800009E+21	5,800697E+21	6,245749E+22	1,160071E+22	7,405819E+22
-1294	3,122897E+22	3,122879E+22	5,800223E+21	5,799703E+21	6,245776E+22	1,159993E+22	7,405769E+22
-1293	3,122939E+22	3,123035E+22	5,800054E+21	5,799948E+21	6,245974E+22	1,160000E+22	7,405974E+22
-1292	3,123069E+22	3,122961E+22	5,799346E+21	5,799896E+21	6,246030E+22	1,159924E+22	7,405955E+22
-1291	3,122945E+22	3,123069E+22	5,799876E+21	5,799248E+21	6,246014E+22	1,159912E+22	7,405926E+22
-1290	3,123020E+22	3,123077E+22	5,799573E+21	5,799914E+21	6,246097E+22	1,159949E+22	7,406046E+22
-1289	3,123072E+22	3,122957E+22	5,799546E+21	5,799607E+21	6,246029E+22	1,159915E+22	7,405944E+22
-1288	3,122932E+22	3,123045E+22	5,800260E+21	5,799569E+21	6,245977E+22	1,159983E+22	7,405959E+22
-1287	3,123001E+22	3,122935E+22	5,799756E+21	5,800526E+21	6,245936E+22	1,160028E+22	7,405964E+22
-1286	3,122897E+22	3,122847E+22	5,800281E+21	5,800190E+21	6,245744E+22	1,160047E+22	7,405791E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1285	3,122789E+22	3,122906E+22	5,800856E+21	5,800696E+21	6,245695E+22	1,160155E+22	7,405850E+22
-1284	3,122878E+22	3,122736E+22	5,800490E+21	5,801246E+21	6,245614E+22	1,160174E+22	7,405788E+22
-1283	3,122710E+22	3,122729E+22	5,801371E+21	5,800781E+21	6,245439E+22	1,160215E+22	7,405654E+22
-1282	3,122662E+22	3,122743E+22	5,801478E+21	5,801550E+21	6,245405E+22	1,160303E+22	7,405708E+22
-1281	3,122704E+22	3,122599E+22	5,801271E+21	5,801577E+21	6,245303E+22	1,160285E+22	7,405588E+22
-1280	3,122528E+22	3,122680E+22	5,801927E+21	5,801226E+21	6,245208E+22	1,160315E+22	7,405523E+22
-1279	3,122627E+22	3,122631E+22	5,801257E+21	5,801919E+21	6,245257E+22	1,160318E+22	7,405575E+22
-1278	3,122673E+22	3,122571E+22	5,801207E+21	5,801169E+21	6,245244E+22	1,160238E+22	7,405481E+22
-1277	3,122636E+22	3,122743E+22	5,801455E+21	5,800909E+21	6,245379E+22	1,160236E+22	7,405615E+22
-1276	3,122835E+22	3,122710E+22	5,800502E+21	5,801172E+21	6,245545E+22	1,160167E+22	7,405713E+22
-1275	3,122777E+22	3,122784E+22	5,800715E+21	5,800256E+21	6,245560E+22	1,160097E+22	7,405658E+22
-1274	3,122763E+22	3,122914E+22	5,800644E+21	5,800535E+21	6,245677E+22	1,160118E+22	7,405795E+22
-1273	3,122916E+22	3,122829E+22	5,800008E+21	5,800461E+21	6,245745E+22	1,160047E+22	7,405792E+22
-1272	3,122809E+22	3,122911E+22	5,800606E+21	5,799848E+21	6,245720E+22	1,160045E+22	7,405766E+22
-1271	3,122880E+22	3,122898E+22	5,800227E+21	5,800579E+21	6,245777E+22	1,160081E+22	7,405858E+22
-1270	3,122923E+22	3,122787E+22	5,800163E+21	5,800325E+21	6,245710E+22	1,160049E+22	7,405759E+22
-1269	3,122761E+22	3,122892E+22	5,800901E+21	5,800368E+21	6,245652E+22	1,160127E+22	7,405779E+22
-1268	3,122846E+22	3,122784E+22	5,800400E+21	5,801273E+21	6,245631E+22	1,160167E+22	7,405798E+22
-1267	3,122756E+22	3,122694E+22	5,800969E+21	5,800909E+21	6,245451E+22	1,160188E+22	7,405639E+22
-1266	3,122617E+22	3,122741E+22	5,801655E+21	5,801371E+21	6,245357E+22	1,160303E+22	7,405660E+22
-1265	3,122715E+22	3,122577E+22	5,801341E+21	5,801900E+21	6,245292E+22	1,160324E+22	7,405616E+22
-1264	3,122531E+22	3,122570E+22	5,802208E+21	5,801533E+21	6,245100E+22	1,160374E+22	7,405474E+22
-1263	3,122464E+22	3,122561E+22	5,802145E+21	5,802350E+21	6,245025E+22	1,160450E+22	7,405474E+22
-1262	3,122529E+22	3,122410E+22	5,801867E+21	5,802310E+21	6,244939E+22	1,160418E+22	7,405356E+22
-1261	3,122384E+22	3,122511E+22	5,802500E+21	5,801866E+21	6,244895E+22	1,160437E+22	7,405332E+22
-1260	3,122532E+22	3,122485E+22	5,801790E+21	5,802399E+21	6,245017E+22	1,160419E+22	7,405436E+22
-1259	3,122588E+22	3,122457E+22	5,801721E+21	5,801623E+21	6,245045E+22	1,160334E+22	7,405379E+22
-1258	3,122489E+22	3,122642E+22	5,802023E+21	5,801404E+21	6,245131E+22	1,160343E+22	7,405473E+22
-1257	3,122679E+22	3,122619E+22	5,801111E+21	5,801700E+21	6,245297E+22	1,160281E+22	7,405579E+22
-1256	3,122622E+22	3,122666E+22	5,801364E+21	5,800873E+21	6,245288E+22	1,160224E+22	7,405512E+22
-1255	3,122607E+22	3,122754E+22	5,801228E+21	5,801161E+21	6,245361E+22	1,160239E+22	7,405600E+22
-1254	3,122789E+22	3,122654E+22	5,800601E+21	5,801071E+21	6,245444E+22	1,160167E+22	7,405611E+22
-1253	3,122682E+22	3,122746E+22	5,801223E+21	5,800510E+21	6,245428E+22	1,160173E+22	7,405601E+22
-1252	3,122750E+22	3,122751E+22	5,800816E+21	5,801267E+21	6,245501E+22	1,160208E+22	7,405709E+22
-1251	3,122782E+22	3,122647E+22	5,800748E+21	5,801074E+21	6,245429E+22	1,160182E+22	7,405611E+22
-1250	3,122575E+22	3,122735E+22	5,801607E+21	5,801102E+21	6,245309E+22	1,160271E+22	7,405580E+22
-1249	3,122684E+22	3,122633E+22	5,801215E+21	5,801935E+21	6,245318E+22	1,160315E+22	7,405633E+22
-1248	3,122606E+22	3,122528E+22	5,801841E+21	5,801596E+21	6,245133E+22	1,160344E+22	7,405477E+22
-1247	3,122437E+22	3,122557E+22	5,802441E+21	5,802087E+21	6,244994E+22	1,160453E+22	7,405447E+22
-1246	3,122531E+22	3,122399E+22	5,802055E+21	5,802659E+21	6,244931E+22	1,160471E+22	7,405402E+22
-1245	3,122339E+22	3,122398E+22	5,802874E+21	5,802322E+21	6,244737E+22	1,160520E+22	7,405257E+22
-1244	3,122308E+22	3,122395E+22	5,802739E+21	5,803038E+21	6,244703E+22	1,160578E+22	7,405281E+22
-1243	3,122407E+22	3,122259E+22	5,802420E+21	5,802910E+21	6,244666E+22	1,160533E+22	7,405199E+22
-1242	3,122249E+22	3,122367E+22	5,803118E+21	5,802395E+21	6,244616E+22	1,160551E+22	7,405167E+22
-1241	3,122412E+22	3,122372E+22	5,802458E+21	5,802893E+21	6,244784E+22	1,160535E+22	7,405319E+22
-1240	3,122448E+22	3,122352E+22	5,802369E+21	5,802225E+21	6,244801E+22	1,160459E+22	7,405260E+22
-1239	3,122320E+22	3,122508E+22	5,802568E+21	5,802048E+21	6,244829E+22	1,160462E+22	7,405290E+22
-1238	3,122529E+22	3,122465E+22	5,801646E+21	5,802310E+21	6,244993E+22	1,160396E+22	7,405389E+22
-1237	3,122490E+22	3,122510E+22	5,801919E+21	5,801466E+21	6,245000E+22	1,160338E+22	7,405339E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1236	3,122506E+22	3,122601E+22	5,801767E+21	5,801691E+21	6,245107E+22	1,160346E+22	7,405453E+22
-1235	3,122683E+22	3,122521E+22	5,801136E+21	5,801643E+21	6,245203E+22	1,160278E+22	7,405481E+22
-1234	3,122522E+22	3,122616E+22	5,801830E+21	5,801164E+21	6,245138E+22	1,160299E+22	7,405438E+22
-1233	3,122588E+22	3,122623E+22	5,801521E+21	5,801927E+21	6,245211E+22	1,160345E+22	7,405556E+22
-1232	3,122619E+22	3,122505E+22	5,801522E+21	5,801808E+21	6,245124E+22	1,160333E+22	7,405457E+22
-1231	3,122405E+22	3,122555E+22	5,802356E+21	5,801816E+21	6,244960E+22	1,160417E+22	7,405377E+22
-1230	3,122528E+22	3,122442E+22	5,802007E+21	5,802630E+21	6,244969E+22	1,160464E+22	7,405433E+22
-1229	3,122435E+22	3,122353E+22	5,802633E+21	5,802366E+21	6,244787E+22	1,160500E+22	7,405287E+22
-1228	3,122261E+22	3,122388E+22	5,803138E+21	5,802874E+21	6,244649E+22	1,160601E+22	7,405250E+22
-1227	3,122352E+22	3,122335E+22	5,802689E+21	5,803448E+21	6,244587E+22	1,160614E+22	7,405201E+22
-1226	3,122150E+22	3,122222E+22	5,803547E+21	5,803045E+21	6,244372E+22	1,160659E+22	7,405031E+22
-1225	3,122163E+22	3,122238E+22	5,803463E+21	5,803622E+21	6,244401E+22	1,160708E+22	7,405109E+22
-1224	3,122286E+22	3,122119E+22	5,803141E+21	5,803496E+21	6,244405E+22	1,160664E+22	7,405069E+22
-1223	3,122107E+22	3,122225E+22	5,803724E+21	5,802982E+21	6,244332E+22	1,160671E+22	7,405003E+22
-1222	3,122267E+22	3,122242E+22	5,803026E+21	5,803495E+21	6,244509E+22	1,160652E+22	7,405161E+22
-1221	3,122295E+22	3,122229E+22	5,802900E+21	5,802853E+21	6,244524E+22	1,160575E+22	7,405099E+22
-1220	3,122192E+22	3,122374E+22	5,803051E+21	5,802608E+21	6,244566E+22	1,160566E+22	7,405132E+22
-1219	3,122420E+22	3,122332E+22	5,802123E+21	5,802812E+21	6,244752E+22	1,160493E+22	7,405246E+22
-1218	3,122362E+22	3,122365E+22	5,802502E+21	5,801974E+21	6,244727E+22	1,160448E+22	7,405175E+22
-1217	3,122382E+22	3,122477E+22	5,802439E+21	5,802227E+21	6,244860E+22	1,160467E+22	7,405326E+22
-1216	3,122536E+22	3,122399E+22	5,801817E+21	5,802342E+21	6,244935E+22	1,160416E+22	7,405351E+22
-1215	3,122342E+22	3,122457E+22	5,802460E+21	5,801911E+21	6,244799E+22	1,160437E+22	7,405236E+22
-1214	3,122429E+22	3,122449E+22	5,802207E+21	5,802641E+21	6,244878E+22	1,160485E+22	7,405363E+22
-1213	3,122468E+22	3,122332E+22	5,802255E+21	5,802507E+21	6,244800E+22	1,160476E+22	7,405276E+22
-1212	3,122268E+22	3,122383E+22	5,803082E+21	5,802487E+21	6,244651E+22	1,160557E+22	7,405208E+22
-1211	3,122369E+22	3,122288E+22	5,802703E+21	5,803328E+21	6,244657E+22	1,160603E+22	7,405260E+22
-1210	3,122226E+22	3,122193E+22	5,803373E+21	5,803153E+21	6,244418E+22	1,160653E+22	7,405071E+22
-1209	3,122066E+22	3,122230E+22	5,803914E+21	5,803628E+21	6,244297E+22	1,160754E+22	7,405051E+22
-1208	3,122178E+22	3,122071E+22	5,803455E+21	5,804222E+21	6,244249E+22	1,160768E+22	7,405017E+22
-1207	3,121992E+22	3,122035E+22	5,804219E+21	5,803738E+21	6,244026E+22	1,160796E+22	7,404822E+22
-1206	3,122041E+22	3,122061E+22	5,804142E+21	5,804240E+21	6,244102E+22	1,160838E+22	7,404940E+22
-1205	3,122152E+22	3,121983E+22	5,803778E+21	5,804132E+21	6,244135E+22	1,160791E+22	7,404926E+22
-1204	3,121972E+22	3,122100E+22	5,804250E+21	5,803610E+21	6,244073E+22	1,160786E+22	7,404859E+22
-1203	3,122122E+22	3,122122E+22	5,803510E+21	5,804059E+21	6,244244E+22	1,160757E+22	7,405001E+22
-1202	3,122139E+22	3,122095E+22	5,803457E+21	5,803389E+21	6,244233E+22	1,160685E+22	7,404918E+22
-1201	3,122069E+22	3,122240E+22	5,803683E+21	5,803050E+21	6,244309E+22	1,160673E+22	7,404982E+22
-1200	3,122299E+22	3,122206E+22	5,802781E+21	5,803342E+21	6,244505E+22	1,160612E+22	7,405117E+22
-1199	3,122217E+22	3,122220E+22	5,803072E+21	5,802587E+21	6,244437E+22	1,160566E+22	7,405003E+22
-1198	3,122235E+22	3,122328E+22	5,803033E+21	5,802902E+21	6,244563E+22	1,160593E+22	7,405157E+22
-1197	3,122378E+22	3,122260E+22	5,802432E+21	5,803064E+21	6,244638E+22	1,160550E+22	7,405187E+22
-1196	3,122207E+22	3,122302E+22	5,803059E+21	5,802599E+21	6,244509E+22	1,160566E+22	7,405075E+22
-1195	3,122295E+22	3,122296E+22	5,802849E+21	5,803256E+21	6,244591E+22	1,160611E+22	7,405202E+22
-1194	3,122305E+22	3,122170E+22	5,803023E+21	5,803184E+21	6,244475E+22	1,160621E+22	7,405096E+22
-1193	3,122094E+22	3,122232E+22	5,803915E+21	5,803203E+21	6,244326E+22	1,160712E+22	7,405037E+22
-1192	3,122170E+22	3,122136E+22	5,803518E+21	5,804184E+21	6,244306E+22	1,160770E+22	7,405076E+22
-1191	3,122016E+22	3,121994E+22	5,804097E+21	5,804011E+21	6,244009E+22	1,160811E+22	7,404820E+22
-1190	3,121903E+22	3,122021E+22	5,804644E+21	5,804396E+21	6,243924E+22	1,160904E+22	7,404828E+22
-1189	3,122038E+22	3,121891E+22	5,804168E+21	5,804907E+21	6,243928E+22	1,160907E+22	7,404836E+22
-1188	3,121879E+22	3,121876E+22	5,804841E+21	5,804358E+21	6,243755E+22	1,160920E+22	7,404675E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1187	3,121914E+22	3,121941E+22	5,804703E+21	5,804804E+21	6,243855E+22	1,160951E+22	7,404805E+22
-1186	3,121980E+22	3,121867E+22	5,804379E+21	5,804723E+21	6,243847E+22	1,160910E+22	7,404758E+22
-1185	3,121812E+22	3,121989E+22	5,804888E+21	5,804145E+21	6,243801E+22	1,160903E+22	7,404704E+22
-1184	3,121972E+22	3,122000E+22	5,804139E+21	5,804616E+21	6,243973E+22	1,160876E+22	7,404848E+22
-1183	3,121991E+22	3,121931E+22	5,804031E+21	5,803938E+21	6,243921E+22	1,160797E+22	7,404718E+22
-1182	3,121956E+22	3,122074E+22	5,804278E+21	5,803623E+21	6,244030E+22	1,160790E+22	7,404820E+22
-1181	3,122168E+22	3,122070E+22	5,803356E+21	5,803995E+21	6,244237E+22	1,160735E+22	7,404972E+22
-1180	3,122089E+22	3,122084E+22	5,803555E+21	5,803287E+21	6,244172E+22	1,160684E+22	7,404857E+22
-1179	3,122103E+22	3,122193E+22	5,803525E+21	5,803525E+21	6,244296E+22	1,160705E+22	7,405001E+22
-1178	3,122226E+22	3,122115E+22	5,803069E+21	5,803672E+21	6,244341E+22	1,160674E+22	7,405015E+22
-1177	3,122073E+22	3,122161E+22	5,803825E+21	5,803162E+21	6,244234E+22	1,160699E+22	7,404932E+22
-1176	3,122138E+22	3,122158E+22	5,803668E+21	5,803924E+21	6,244296E+22	1,160759E+22	7,405055E+22
-1175	3,122106E+22	3,121999E+22	5,803788E+21	5,803973E+21	6,244105E+22	1,160776E+22	7,404881E+22
-1174	3,121905E+22	3,122039E+22	5,804681E+21	5,804048E+21	6,243944E+22	1,160873E+22	7,404817E+22
-1173	3,121979E+22	3,121951E+22	5,804266E+21	5,805027E+21	6,243930E+22	1,160929E+22	7,404859E+22
-1172	3,121870E+22	3,121801E+22	5,804750E+21	5,804782E+21	6,243671E+22	1,160953E+22	7,404624E+22
-1171	3,121776E+22	3,121848E+22	5,805280E+21	5,805011E+21	6,243624E+22	1,161029E+22	7,404653E+22
-1170	3,121891E+22	3,121744E+22	5,804899E+21	5,805532E+21	6,243635E+22	1,161043E+22	7,404678E+22
-1169	3,121726E+22	3,121758E+22	5,805580E+21	5,804969E+21	6,243484E+22	1,161055E+22	7,404539E+22
-1168	3,121730E+22	3,121830E+22	5,805406E+21	5,805479E+21	6,243560E+22	1,161089E+22	7,404649E+22
-1167	3,121789E+22	3,121710E+22	5,804992E+21	5,805385E+21	6,243499E+22	1,161038E+22	7,404537E+22
-1166	3,121669E+22	3,121807E+22	5,805496E+21	5,804739E+21	6,243476E+22	1,161024E+22	7,404500E+22
-1165	3,121843E+22	3,121843E+22	5,804727E+21	5,805167E+21	6,243686E+22	1,160989E+22	7,404676E+22
-1164	3,121892E+22	3,121782E+22	5,804506E+21	5,804509E+21	6,243674E+22	1,160901E+22	7,404575E+22
-1163	3,121845E+22	3,121953E+22	5,804702E+21	5,804169E+21	6,243798E+22	1,160887E+22	7,404685E+22
-1162	3,122023E+22	3,121957E+22	5,803885E+21	5,804596E+21	6,243980E+22	1,160848E+22	7,404828E+22
-1161	3,121956E+22	3,121973E+22	5,804166E+21	5,803847E+21	6,243929E+22	1,160801E+22	7,404730E+22
-1160	3,121964E+22	3,122077E+22	5,804209E+21	5,804105E+21	6,244040E+22	1,160831E+22	7,404872E+22
-1159	3,122069E+22	3,121949E+22	5,803786E+21	5,804290E+21	6,244019E+22	1,160808E+22	7,404827E+22
-1158	3,121926E+22	3,121979E+22	5,804615E+21	5,803876E+21	6,243905E+22	1,160849E+22	7,404755E+22
-1157	3,121951E+22	3,121995E+22	5,804443E+21	5,804738E+21	6,243946E+22	1,160918E+22	7,404864E+22
-1156	3,121925E+22	3,121815E+22	5,804454E+21	5,804859E+21	6,243740E+22	1,160931E+22	7,404672E+22
-1155	3,121741E+22	3,121851E+22	5,805305E+21	5,804818E+21	6,243592E+22	1,161012E+22	7,404604E+22
-1154	3,121815E+22	3,121766E+22	5,804998E+21	5,805727E+21	6,243581E+22	1,161073E+22	7,404654E+22
-1153	3,121733E+22	3,121646E+22	5,805533E+21	5,805387E+21	6,243379E+22	1,161092E+22	7,404471E+22
-1152	3,121625E+22	3,121722E+22	5,806054E+21	5,805661E+21	6,243347E+22	1,161171E+22	7,404519E+22
-1151	3,121695E+22	3,121597E+22	5,805617E+21	5,806238E+21	6,243292E+22	1,161185E+22	7,404478E+22
-1150	3,121548E+22	3,121599E+22	5,806273E+21	5,805700E+21	6,243147E+22	1,161197E+22	7,404344E+22
-1149	3,121551E+22	3,121677E+22	5,806049E+21	5,806149E+21	6,243228E+22	1,161220E+22	7,404448E+22
-1148	3,121657E+22	3,121540E+22	5,805507E+21	5,806007E+21	6,243197E+22	1,161151E+22	7,404348E+22
-1147	3,121570E+22	3,121645E+22	5,805954E+21	5,805229E+21	6,243216E+22	1,161118E+22	7,404334E+22
-1146	3,121726E+22	3,121709E+22	5,805273E+21	5,805694E+21	6,243435E+22	1,161097E+22	7,404532E+22
-1145	3,121773E+22	3,121683E+22	5,805063E+21	5,805053E+21	6,243456E+22	1,161012E+22	7,404467E+22
-1144	3,121706E+22	3,121858E+22	5,805271E+21	5,804774E+21	6,243564E+22	1,161004E+22	7,404568E+22
-1143	3,121862E+22	3,121817E+22	5,804494E+21	5,805194E+21	6,243679E+22	1,160969E+22	7,404648E+22
-1142	3,121829E+22	3,121809E+22	5,804851E+21	5,804442E+21	6,243637E+22	1,160929E+22	7,404567E+22
-1141	3,121816E+22	3,121925E+22	5,804947E+21	5,804706E+21	6,243742E+22	1,160965E+22	7,404707E+22
-1140	3,121926E+22	3,121787E+22	5,804444E+21	5,805008E+21	6,243713E+22	1,160945E+22	7,404658E+22
-1139	3,121763E+22	3,121815E+22	5,805229E+21	5,804602E+21	6,243578E+22	1,160983E+22	7,404561E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1138	3,121757E+22	3,121832E+22	5,805153E+21	5,805528E+21	6,243589E+22	1,161068E+22	7,404658E+22
-1137	3,121758E+22	3,121653E+22	5,805195E+21	5,805593E+21	6,243411E+22	1,161079E+22	7,404490E+22
-1136	3,121581E+22	3,121692E+22	5,806063E+21	5,805531E+21	6,243273E+22	1,161159E+22	7,404433E+22
-1135	3,121648E+22	3,121582E+22	5,805790E+21	5,806433E+21	6,243230E+22	1,161222E+22	7,404452E+22
-1134	3,121582E+22	3,121468E+22	5,806343E+21	5,806140E+21	6,243050E+22	1,161248E+22	7,404299E+22
-1133	3,121435E+22	3,121576E+22	5,806813E+21	5,806428E+21	6,243011E+22	1,161324E+22	7,404335E+22
-1132	3,121521E+22	3,121430E+22	5,806230E+21	5,807015E+21	6,242952E+22	1,161324E+22	7,404276E+22
-1131	3,121397E+22	3,121425E+22	5,806804E+21	5,806316E+21	6,242822E+22	1,161312E+22	7,404134E+22
-1130	3,121408E+22	3,121516E+22	5,806645E+21	5,806687E+21	6,242924E+22	1,161333E+22	7,404257E+22
-1129	3,121546E+22	3,121409E+22	5,806106E+21	5,806471E+21	6,242955E+22	1,161258E+22	7,404212E+22
-1128	3,121454E+22	3,121545E+22	5,806515E+21	5,805753E+21	6,242998E+22	1,161227E+22	7,404225E+22
-1127	3,121574E+22	3,121587E+22	5,805837E+21	5,806277E+21	6,243161E+22	1,161211E+22	7,404372E+22
-1126	3,121639E+22	3,121552E+22	5,805655E+21	5,805676E+21	6,243191E+22	1,161133E+22	7,404325E+22
-1125	3,121560E+22	3,121734E+22	5,805885E+21	5,805357E+21	6,243294E+22	1,161124E+22	7,404418E+22
-1124	3,121738E+22	3,121663E+22	5,805064E+21	5,805785E+21	6,243402E+22	1,161085E+22	7,404486E+22
-1123	3,121714E+22	3,121650E+22	5,805430E+21	5,805008E+21	6,243364E+22	1,161044E+22	7,404407E+22
-1122	3,121658E+22	3,121776E+22	5,805637E+21	5,805374E+21	6,243434E+22	1,161101E+22	7,404535E+22
-1121	3,121752E+22	3,121651E+22	5,805149E+21	5,805746E+21	6,243403E+22	1,161089E+22	7,404493E+22
-1120	3,121585E+22	3,121666E+22	5,805915E+21	5,805400E+21	6,243252E+22	1,161131E+22	7,404383E+22
-1119	3,121570E+22	3,121633E+22	5,805896E+21	5,806291E+21	6,243203E+22	1,161219E+22	7,404421E+22
-1118	3,121613E+22	3,121454E+22	5,805989E+21	5,806327E+21	6,243067E+22	1,161232E+22	7,404299E+22
-1117	3,121424E+22	3,121524E+22	5,806872E+21	5,806232E+21	6,242948E+22	1,161310E+22	7,404259E+22
-1116	3,121490E+22	3,121416E+22	5,806508E+21	5,807199E+21	6,242906E+22	1,161371E+22	7,404277E+22
-1115	3,121414E+22	3,121312E+22	5,806982E+21	5,806863E+21	6,242726E+22	1,161384E+22	7,404110E+22
-1114	3,121244E+22	3,121425E+22	5,807502E+21	5,807133E+21	6,242669E+22	1,161464E+22	7,404132E+22
-1113	3,121360E+22	3,121287E+22	5,806901E+21	5,807618E+21	6,242647E+22	1,161452E+22	7,404099E+22
-1112	3,121259E+22	3,121283E+22	5,807432E+21	5,806877E+21	6,242542E+22	1,161431E+22	7,403972E+22
-1111	3,121264E+22	3,121351E+22	5,807303E+21	5,807244E+21	6,242615E+22	1,161455E+22	7,404070E+22
-1110	3,121421E+22	3,121265E+22	5,806748E+21	5,807098E+21	6,242687E+22	1,161385E+22	7,404071E+22
-1109	3,121299E+22	3,121431E+22	5,807106E+21	5,806406E+21	6,242731E+22	1,161351E+22	7,404082E+22
-1108	3,121439E+22	3,121450E+22	5,806341E+21	5,806941E+21	6,242889E+22	1,161328E+22	7,404217E+22
-1107	3,121523E+22	3,121403E+22	5,806129E+21	5,806198E+21	6,242926E+22	1,161233E+22	7,404158E+22
-1106	3,121431E+22	3,121594E+22	5,806485E+21	5,805857E+21	6,243025E+22	1,161234E+22	7,404259E+22
-1105	3,121615E+22	3,121541E+22	5,805706E+21	5,806286E+21	6,243155E+22	1,161199E+22	7,404354E+22
-1104	3,121561E+22	3,121532E+22	5,806071E+21	5,805649E+21	6,243093E+22	1,161172E+22	7,404265E+22
-1103	3,121465E+22	3,121617E+22	5,806333E+21	5,806118E+21	6,243082E+22	1,161245E+22	7,404327E+22
-1102	3,121583E+22	3,121474E+22	5,805882E+21	5,806544E+21	6,243057E+22	1,161243E+22	7,404300E+22
-1101	3,121415E+22	3,121495E+22	5,806652E+21	5,806150E+21	6,242909E+22	1,161280E+22	7,404190E+22
-1100	3,121432E+22	3,121438E+22	5,806593E+21	5,807028E+21	6,242871E+22	1,161362E+22	7,404233E+22
-1099	3,121482E+22	3,121272E+22	5,806682E+21	5,807003E+21	6,242754E+22	1,161369E+22	7,404123E+22
-1098	3,121251E+22	3,121375E+22	5,807647E+21	5,806977E+21	6,242626E+22	1,161462E+22	7,404088E+22
-1097	3,121303E+22	3,121284E+22	5,807271E+21	5,807938E+21	6,242587E+22	1,161521E+22	7,404108E+22
-1096	3,121226E+22	3,121170E+22	5,807700E+21	5,807607E+21	6,242396E+22	1,161531E+22	7,403927E+22
-1095	3,121054E+22	3,121235E+22	5,808237E+21	5,807804E+21	6,242289E+22	1,161604E+22	7,403893E+22
-1094	3,121216E+22	3,121104E+22	5,807626E+21	5,808247E+21	6,242320E+22	1,161587E+22	7,403907E+22
-1093	3,121118E+22	3,121134E+22	5,808091E+21	5,807482E+21	6,242252E+22	1,161557E+22	7,403809E+22
-1092	3,121134E+22	3,121202E+22	5,807842E+21	5,807899E+21	6,242336E+22	1,161574E+22	7,403910E+22
-1091	3,121294E+22	3,121137E+22	5,807209E+21	5,807693E+21	6,242431E+22	1,161490E+22	7,403921E+22
-1090	3,121161E+22	3,121313E+22	5,807625E+21	5,806974E+21	6,242474E+22	1,161460E+22	7,403934E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1089	3,121314E+22	3,121340E+22	5,806895E+21	5,807404E+21	6,242654E+22	1,161430E+22	7,404084E+22
-1088	3,121408E+22	3,121289E+22	5,806696E+21	5,806682E+21	6,242697E+22	1,161338E+22	7,404035E+22
-1087	3,121283E+22	3,121439E+22	5,807158E+21	5,806415E+21	6,242722E+22	1,161357E+22	7,404079E+22
-1086	3,121459E+22	3,121395E+22	5,806412E+21	5,806980E+21	6,242853E+22	1,161339E+22	7,404192E+22
-1085	3,121379E+22	3,121387E+22	5,806756E+21	5,806424E+21	6,242766E+22	1,161318E+22	7,404084E+22
-1084	3,121305E+22	3,121427E+22	5,806967E+21	5,806921E+21	6,242732E+22	1,161389E+22	7,404121E+22
-1083	3,121447E+22	3,121282E+22	5,806506E+21	5,807226E+21	6,242730E+22	1,161373E+22	7,404103E+22
-1082	3,121273E+22	3,121325E+22	5,807379E+21	5,806813E+21	6,242597E+22	1,161419E+22	7,404016E+22
-1081	3,121287E+22	3,121300E+22	5,807369E+21	5,807670E+21	6,242588E+22	1,161504E+22	7,404092E+22
-1080	3,121308E+22	3,121149E+22	5,807443E+21	5,807743E+21	6,242457E+22	1,161519E+22	7,403976E+22
-1079	3,121035E+22	3,121210E+22	5,808467E+21	5,807777E+21	6,242244E+22	1,161624E+22	7,403868E+22
-1078	3,121106E+22	3,121110E+22	5,808087E+21	5,808730E+21	6,242216E+22	1,161682E+22	7,403897E+22
-1077	3,121038E+22	3,120995E+22	5,808461E+21	5,808339E+21	6,242033E+22	1,161680E+22	7,403713E+22
-1076	3,120915E+22	3,121034E+22	5,808886E+21	5,808505E+21	6,241948E+22	1,161739E+22	7,403687E+22
-1075	3,121097E+22	3,120925E+22	5,808195E+21	5,808858E+21	6,242023E+22	1,161705E+22	7,403728E+22
-1074	3,120977E+22	3,121003E+22	5,808653E+21	5,808127E+21	6,241980E+22	1,161678E+22	7,403658E+22
-1073	3,121001E+22	3,121097E+22	5,808371E+21	5,808480E+21	6,242098E+22	1,161685E+22	7,403783E+22
-1072	3,121163E+22	3,121032E+22	5,807723E+21	5,808223E+21	6,242195E+22	1,161595E+22	7,403790E+22
-1071	3,121019E+22	3,121169E+22	5,808232E+21	5,807459E+21	6,242188E+22	1,161569E+22	7,403757E+22
-1070	3,121190E+22	3,121201E+22	5,807560E+21	5,807883E+21	6,242391E+22	1,161544E+22	7,403935E+22
-1069	3,121259E+22	3,121164E+22	5,807358E+21	5,807254E+21	6,242423E+22	1,161461E+22	7,403885E+22
-1068	3,121133E+22	3,121282E+22	5,807739E+21	5,807128E+21	6,242415E+22	1,161487E+22	7,403902E+22
-1067	3,121307E+22	3,121233E+22	5,806960E+21	5,807686E+21	6,242540E+22	1,161465E+22	7,404005E+22
-1066	3,121225E+22	3,121232E+22	5,807365E+21	5,807145E+21	6,242456E+22	1,161451E+22	7,403907E+22
-1065	3,121173E+22	3,121278E+22	5,807619E+21	5,807546E+21	6,242451E+22	1,161517E+22	7,403967E+22
-1064	3,121318E+22	3,121141E+22	5,807212E+21	5,807864E+21	6,242459E+22	1,161508E+22	7,403966E+22
-1063	3,121103E+22	3,121157E+22	5,808211E+21	5,807539E+21	6,242260E+22	1,161575E+22	7,403835E+22
-1062	3,121094E+22	3,121149E+22	5,808236E+21	5,808487E+21	6,242243E+22	1,161672E+22	7,403915E+22
-1061	3,121092E+22	3,120993E+22	5,808275E+21	5,808619E+21	6,242085E+22	1,161689E+22	7,403775E+22
-1060	3,120846E+22	3,120994E+22	5,809198E+21	5,808626E+21	6,241841E+22	1,161782E+22	7,403623E+22
-1059	3,120950E+22	3,120899E+22	5,808748E+21	5,809416E+21	6,241848E+22	1,161816E+22	7,403664E+22
-1058	3,120897E+22	3,120814E+22	5,809116E+21	5,808981E+21	6,241710E+22	1,161810E+22	7,403520E+22
-1057	3,120785E+22	3,120892E+22	5,809500E+21	5,809084E+21	6,241677E+22	1,161858E+22	7,403536E+22
-1056	3,120959E+22	3,120822E+22	5,808758E+21	5,809459E+21	6,241781E+22	1,161822E+22	7,403603E+22
-1055	3,120815E+22	3,120872E+22	5,809271E+21	5,808734E+21	6,241688E+22	1,161800E+22	7,403488E+22
-1054	3,120855E+22	3,120976E+22	5,809015E+21	5,809024E+21	6,241830E+22	1,161804E+22	7,403634E+22
-1053	3,121018E+22	3,120911E+22	5,808357E+21	5,808735E+21	6,241929E+22	1,161709E+22	7,403639E+22
-1052	3,120898E+22	3,121002E+22	5,808815E+21	5,808024E+21	6,241900E+22	1,161684E+22	7,403583E+22
-1051	3,121061E+22	3,121047E+22	5,808113E+21	5,808456E+21	6,242108E+22	1,161657E+22	7,403765E+22
-1050	3,121102E+22	3,121031E+22	5,807924E+21	5,807960E+21	6,242133E+22	1,161588E+22	7,403722E+22
-1049	3,120988E+22	3,121147E+22	5,808298E+21	5,807820E+21	6,242135E+22	1,161612E+22	7,403747E+22
-1048	3,121172E+22	3,121093E+22	5,807543E+21	5,808338E+21	6,242265E+22	1,161588E+22	7,403853E+22
-1047	3,121079E+22	3,121058E+22	5,808070E+21	5,807779E+21	6,242138E+22	1,161585E+22	7,403723E+22
-1046	3,121034E+22	3,121124E+22	5,808409E+21	5,808175E+21	6,242158E+22	1,161658E+22	7,403817E+22
-1045	3,121141E+22	3,121005E+22	5,808036E+21	5,808591E+21	6,242146E+22	1,161663E+22	7,403808E+22
-1044	3,120918E+22	3,120980E+22	5,808977E+21	5,808403E+21	6,241898E+22	1,161738E+22	7,403636E+22
-1043	3,120904E+22	3,120961E+22	5,808958E+21	5,809286E+21	6,241865E+22	1,161824E+22	7,403690E+22
-1042	3,120902E+22	3,120810E+22	5,809004E+21	5,809412E+21	6,241711E+22	1,161842E+22	7,403553E+22
-1041	3,120698E+22	3,120813E+22	5,809875E+21	5,809294E+21	6,241511E+22	1,161917E+22	7,403428E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1040	3,120816E+22	3,120734E+22	5,809410E+21	5,810028E+21	6,241550E+22	1,161944E+22	7,403494E+22
-1039	3,120739E+22	3,120651E+22	5,809830E+21	5,809644E+21	6,241391E+22	1,161947E+22	7,403338E+22
-1038	3,120624E+22	3,120767E+22	5,810199E+21	5,809760E+21	6,241391E+22	1,161996E+22	7,403387E+22
-1037	3,120785E+22	3,120705E+22	5,809438E+21	5,810131E+21	6,241490E+22	1,161957E+22	7,403447E+22
-1036	3,120673E+22	3,120707E+22	5,809857E+21	5,809372E+21	6,241381E+22	1,161923E+22	7,403303E+22
-1035	3,120732E+22	3,120813E+22	5,809560E+21	5,809509E+21	6,241545E+22	1,161907E+22	7,403452E+22
-1034	3,120891E+22	3,120775E+22	5,808913E+21	5,809259E+21	6,241666E+22	1,161817E+22	7,403483E+22
-1033	3,120776E+22	3,120877E+22	5,809331E+21	5,808576E+21	6,241654E+22	1,161791E+22	7,403444E+22
-1032	3,120922E+22	3,120937E+22	5,808619E+21	5,809066E+21	6,241860E+22	1,161769E+22	7,403628E+22
-1031	3,120944E+22	3,120886E+22	5,808528E+21	5,808634E+21	6,241830E+22	1,161716E+22	7,403546E+22
-1030	3,120845E+22	3,121007E+22	5,808957E+21	5,808449E+21	6,241853E+22	1,161741E+22	7,403593E+22
-1029	3,121032E+22	3,120953E+22	5,808266E+21	5,808964E+21	6,241985E+22	1,161723E+22	7,403708E+22
-1028	3,120951E+22	3,120871E+22	5,808783E+21	5,808476E+21	6,241822E+22	1,161726E+22	7,403548E+22
-1027	3,120878E+22	3,120955E+22	5,809128E+21	5,808882E+21	6,241834E+22	1,161801E+22	7,403635E+22
-1026	3,120949E+22	3,120852E+22	5,808773E+21	5,809423E+21	6,241801E+22	1,161820E+22	7,403621E+22
-1025	3,120734E+22	3,120807E+22	5,809698E+21	5,809208E+21	6,241541E+22	1,161891E+22	7,403432E+22
-1024	3,120731E+22	3,120787E+22	5,809669E+21	5,809999E+21	6,241518E+22	1,161967E+22	7,403484E+22
-1023	3,120729E+22	3,120608E+22	5,809795E+21	5,810102E+21	6,241337E+22	1,161990E+22	7,403327E+22
-1022	3,120542E+22	3,120645E+22	5,810664E+21	5,809948E+21	6,241186E+22	1,162061E+22	7,403247E+22
-1021	3,120643E+22	3,120598E+22	5,810180E+21	5,810740E+21	6,241241E+22	1,162092E+22	7,403333E+22
-1020	3,120574E+22	3,120488E+22	5,810485E+21	5,810421E+21	6,241062E+22	1,162091E+22	7,403152E+22
-1019	3,120469E+22	3,120614E+22	5,810793E+21	5,810415E+21	6,241082E+22	1,162121E+22	7,403203E+22
-1018	3,120634E+22	3,120568E+22	5,810023E+21	5,810737E+21	6,241203E+22	1,162076E+22	7,403279E+22
-1017	3,120560E+22	3,120566E+22	5,810395E+21	5,809884E+21	6,241126E+22	1,162028E+22	7,403154E+22
-1016	3,120618E+22	3,120686E+22	5,810089E+21	5,809982E+21	6,241304E+22	1,162007E+22	7,403311E+22
-1015	3,120741E+22	3,120638E+22	5,809517E+21	5,809857E+21	6,241379E+22	1,161937E+22	7,403316E+22
-1014	3,120625E+22	3,120758E+22	5,809928E+21	5,809222E+21	6,241384E+22	1,161915E+22	7,403299E+22
-1013	3,120766E+22	3,120809E+22	5,809257E+21	5,809725E+21	6,241574E+22	1,161898E+22	7,403473E+22
-1012	3,120817E+22	3,120708E+22	5,809124E+21	5,809293E+21	6,241526E+22	1,161842E+22	7,403367E+22
-1011	3,120733E+22	3,120835E+22	5,809562E+21	5,808995E+21	6,241568E+22	1,161856E+22	7,403424E+22
-1010	3,120891E+22	3,120810E+22	5,808946E+21	5,809580E+21	6,241701E+22	1,161853E+22	7,403553E+22
-1009	3,120803E+22	3,120735E+22	5,809447E+21	5,809175E+21	6,241538E+22	1,161862E+22	7,403400E+22
-1008	3,120700E+22	3,120819E+22	5,809814E+21	5,809604E+21	6,241518E+22	1,161942E+22	7,403460E+22
-1007	3,120744E+22	3,120678E+22	5,809570E+21	5,810217E+21	6,241422E+22	1,161979E+22	7,403401E+22
-1006	3,120551E+22	3,120631E+22	5,810507E+21	5,809948E+21	6,241182E+22	1,162045E+22	7,403228E+22
-1005	3,120556E+22	3,120607E+22	5,810506E+21	5,810729E+21	6,241163E+22	1,162123E+22	7,403286E+22
-1004	3,120575E+22	3,120399E+22	5,810553E+21	5,810896E+21	6,240973E+22	1,162145E+22	7,403118E+22
-1003	3,120382E+22	3,120468E+22	5,811342E+21	5,810713E+21	6,240850E+22	1,162206E+22	7,403056E+22
-1002	3,120467E+22	3,120455E+22	5,810847E+21	5,811536E+21	6,240922E+22	1,162238E+22	7,403161E+22
-1001	3,120429E+22	3,120340E+22	5,811075E+21	5,811112E+21	6,240769E+22	1,162219E+22	7,402987E+22
-1000	3,120338E+22	3,120475E+22	5,811354E+21	5,810929E+21	6,240813E+22	1,162228E+22	7,403041E+22
-999	3,120495E+22	3,120417E+22	5,810668E+21	5,811230E+21	6,240911E+22	1,162190E+22	7,403101E+22
-998	3,120422E+22	3,120442E+22	5,811035E+21	5,810377E+21	6,240864E+22	1,162141E+22	7,403005E+22
-997	3,120461E+22	3,120577E+22	5,810732E+21	5,810577E+21	6,241038E+22	1,162131E+22	7,403169E+22
-996	3,120591E+22	3,120481E+22	5,810077E+21	5,810547E+21	6,241073E+22	1,162062E+22	7,403135E+22
-995	3,120491E+22	3,120603E+22	5,810448E+21	5,809838E+21	6,241094E+22	1,162029E+22	7,403123E+22
-994	3,120639E+22	3,120668E+22	5,809822E+21	5,810319E+21	6,241307E+22	1,162014E+22	7,403321E+22
-993	3,120716E+22	3,120560E+22	5,809688E+21	5,809848E+21	6,241276E+22	1,161954E+22	7,403230E+22
-992	3,120612E+22	3,120705E+22	5,810181E+21	5,809544E+21	6,241317E+22	1,161972E+22	7,403289E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-991	3,120710E+22	3,120670E+22	5,809701E+21	5,810293E+21	6,241380E+22	1,161999E+22	7,403380E+22
-990	3,120604E+22	3,120597E+22	5,810239E+21	5,809967E+21	6,241200E+22	1,162021E+22	7,403221E+22
-989	3,120496E+22	3,120654E+22	5,810651E+21	5,810424E+21	6,241150E+22	1,162108E+22	7,403257E+22
-988	3,120567E+22	3,120453E+22	5,810346E+21	5,811040E+21	6,241020E+22	1,162139E+22	7,403159E+22
-987	3,120401E+22	3,120416E+22	5,811228E+21	5,810674E+21	6,240817E+22	1,162190E+22	7,403008E+22
-986	3,120396E+22	3,120431E+22	5,811237E+21	5,811484E+21	6,240827E+22	1,162272E+22	7,403099E+22
-985	3,120425E+22	3,120245E+22	5,811205E+21	5,811667E+21	6,240670E+22	1,162287E+22	7,402957E+22
-984	3,120226E+22	3,120335E+22	5,811962E+21	5,811397E+21	6,240561E+22	1,162336E+22	7,402897E+22
-983	3,120292E+22	3,120310E+22	5,811568E+21	5,812198E+21	6,240601E+22	1,162377E+22	7,402978E+22
-982	3,120276E+22	3,120209E+22	5,811780E+21	5,811670E+21	6,240485E+22	1,162345E+22	7,402830E+22
-981	3,120190E+22	3,120335E+22	5,812075E+21	5,811458E+21	6,240525E+22	1,162353E+22	7,402878E+22
-980	3,120349E+22	3,120247E+22	5,811303E+21	5,811846E+21	6,240596E+22	1,162315E+22	7,402911E+22
-979	3,120277E+22	3,120289E+22	5,811570E+21	5,811017E+21	6,240566E+22	1,162259E+22	7,402825E+22
-978	3,120304E+22	3,120439E+22	5,811272E+21	5,811262E+21	6,240743E+22	1,162253E+22	7,402996E+22
-977	3,120475E+22	3,120338E+22	5,810557E+21	5,811172E+21	6,240813E+22	1,162173E+22	7,402986E+22
-976	3,120392E+22	3,120468E+22	5,810930E+21	5,810312E+21	6,240860E+22	1,162124E+22	7,402984E+22
-975	3,120513E+22	3,120531E+22	5,810471E+21	5,810822E+21	6,241044E+22	1,162129E+22	7,403173E+22
-974	3,120572E+22	3,120450E+22	5,810383E+21	5,810411E+21	6,241023E+22	1,162079E+22	7,403102E+22
-973	3,120430E+22	3,120588E+22	5,810947E+21	5,810256E+21	6,241018E+22	1,162120E+22	7,403138E+22
-972	3,120516E+22	3,120493E+22	5,810443E+21	5,811123E+21	6,241008E+22	1,162157E+22	7,403165E+22
-971	3,120425E+22	3,120402E+22	5,810951E+21	5,810769E+21	6,240827E+22	1,162172E+22	7,402999E+22
-970	3,120327E+22	3,120461E+22	5,811394E+21	5,811203E+21	6,240788E+22	1,162260E+22	7,403048E+22
-969	3,120436E+22	3,120254E+22	5,811038E+21	5,811785E+21	6,240690E+22	1,162282E+22	7,402973E+22
-968	3,120263E+22	3,120250E+22	5,811892E+21	5,811365E+21	6,240513E+22	1,162326E+22	7,402839E+22
-967	3,120214E+22	3,120279E+22	5,812009E+21	5,812265E+21	6,240494E+22	1,162427E+22	7,402921E+22
-966	3,120236E+22	3,120116E+22	5,811988E+21	5,812408E+21	6,240352E+22	1,162440E+22	7,402791E+22
-965	3,120046E+22	3,120194E+22	5,812772E+21	5,812093E+21	6,240240E+22	1,162486E+22	7,402726E+22
-964	3,120129E+22	3,120119E+22	5,812306E+21	5,812832E+21	6,240247E+22	1,162514E+22	7,402761E+22
-963	3,120128E+22	3,120032E+22	5,812434E+21	5,812243E+21	6,240160E+22	1,162468E+22	7,402627E+22
-962	3,120032E+22	3,120188E+22	5,812685E+21	5,812087E+21	6,240221E+22	1,162477E+22	7,402698E+22
-961	3,120208E+22	3,120105E+22	5,811794E+21	5,812510E+21	6,240314E+22	1,162430E+22	7,402744E+22
-960	3,120149E+22	3,120163E+22	5,812003E+21	5,811596E+21	6,240312E+22	1,162360E+22	7,402672E+22
-959	3,120170E+22	3,120306E+22	5,811832E+21	5,811831E+21	6,240476E+22	1,162366E+22	7,402842E+22
-958	3,120355E+22	3,120227E+22	5,811160E+21	5,811654E+21	6,240582E+22	1,162281E+22	7,402864E+22
-957	3,120273E+22	3,120350E+22	5,811616E+21	5,810839E+21	6,240623E+22	1,162245E+22	7,402868E+22
-956	3,120364E+22	3,120376E+22	5,811156E+21	5,811468E+21	6,240740E+22	1,162262E+22	7,403002E+22
-955	3,120403E+22	3,120299E+22	5,811041E+21	5,811160E+21	6,240703E+22	1,162220E+22	7,402923E+22
-954	3,120243E+22	3,120425E+22	5,811647E+21	5,811072E+21	6,240668E+22	1,162272E+22	7,402940E+22
-953	3,120361E+22	3,120305E+22	5,811095E+21	5,811902E+21	6,240666E+22	1,162300E+22	7,402965E+22
-952	3,120293E+22	3,120216E+22	5,811584E+21	5,811415E+21	6,240509E+22	1,162300E+22	7,402809E+22
-951	3,120173E+22	3,120280E+22	5,812171E+21	5,811884E+21	6,240453E+22	1,162405E+22	7,402858E+22
-950	3,120268E+22	3,120120E+22	5,811837E+21	5,812489E+21	6,240389E+22	1,162433E+22	7,402821E+22
-949	3,120078E+22	3,120116E+22	5,812722E+21	5,812152E+21	6,240193E+22	1,162487E+22	7,402680E+22
-948	3,120016E+22	3,120103E+22	5,812810E+21	5,813074E+21	6,240119E+22	1,162588E+22	7,402708E+22
-947	3,120060E+22	3,119939E+22	5,812721E+21	5,813144E+21	6,239999E+22	1,162587E+22	7,402585E+22
-946	3,119877E+22	3,120017E+22	5,813494E+21	5,812771E+21	6,239894E+22	1,162626E+22	7,402520E+22
-945	3,119992E+22	3,119941E+22	5,812920E+21	5,813470E+21	6,239934E+22	1,162639E+22	7,402573E+22
-944	3,119993E+22	3,119881E+22	5,812951E+21	5,812836E+21	6,239874E+22	1,162579E+22	7,402453E+22
-943	3,119869E+22	3,120049E+22	5,813266E+21	5,812762E+21	6,239918E+22	1,162603E+22	7,402521E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-942	3,120059E+22	3,119992E+22	5,812373E+21	5,813115E+21	6,240051E+22	1,162549E+22	7,402599E+22
-941	3,120025E+22	3,120040E+22	5,812607E+21	5,812155E+21	6,240065E+22	1,162476E+22	7,402541E+22
-940	3,120053E+22	3,120148E+22	5,812435E+21	5,812344E+21	6,240201E+22	1,162478E+22	7,402679E+22
-939	3,120238E+22	3,120086E+22	5,811758E+21	5,812166E+21	6,240324E+22	1,162392E+22	7,402717E+22
-938	3,120122E+22	3,120224E+22	5,812257E+21	5,811473E+21	6,240347E+22	1,162373E+22	7,402720E+22
-937	3,120208E+22	3,120235E+22	5,811746E+21	5,812177E+21	6,240442E+22	1,162392E+22	7,402835E+22
-936	3,120247E+22	3,120150E+22	5,811617E+21	5,811843E+21	6,240397E+22	1,162346E+22	7,402743E+22
-935	3,120077E+22	3,120254E+22	5,812359E+21	5,811789E+21	6,240332E+22	1,162415E+22	7,402747E+22
-934	3,120206E+22	3,120147E+22	5,811859E+21	5,812545E+21	6,240352E+22	1,162440E+22	7,402793E+22
-933	3,120144E+22	3,120056E+22	5,812405E+21	5,812129E+21	6,240200E+22	1,162453E+22	7,402653E+22
-932	3,119995E+22	3,120094E+22	5,812972E+21	5,812693E+21	6,240089E+22	1,162567E+22	7,402655E+22
-931	3,120072E+22	3,119950E+22	5,812617E+21	5,813351E+21	6,240022E+22	1,162597E+22	7,402619E+22
-930	3,119879E+22	3,119945E+22	5,813514E+21	5,813020E+21	6,239824E+22	1,162653E+22	7,402477E+22
-929	3,119853E+22	3,119912E+22	5,813512E+21	5,813823E+21	6,239765E+22	1,162734E+22	7,402498E+22
-928	3,119919E+22	3,119761E+22	5,813347E+21	5,813734E+21	6,239680E+22	1,162708E+22	7,402388E+22
-927	3,119720E+22	3,119850E+22	5,814180E+21	5,813387E+21	6,239570E+22	1,162757E+22	7,402327E+22
-926	3,119826E+22	3,119819E+22	5,813572E+21	5,814065E+21	6,239645E+22	1,162764E+22	7,402408E+22
-925	3,119835E+22	3,119762E+22	5,813585E+21	5,813500E+21	6,239597E+22	1,162708E+22	7,402306E+22
-924	3,119717E+22	3,119892E+22	5,813860E+21	5,813409E+21	6,239609E+22	1,162727E+22	7,402336E+22
-923	3,119935E+22	3,119849E+22	5,812946E+21	5,813680E+21	6,239784E+22	1,162663E+22	7,402446E+22
-922	3,119911E+22	3,119902E+22	5,813201E+21	5,812686E+21	6,239813E+22	1,162589E+22	7,402402E+22
-921	3,119950E+22	3,120007E+22	5,812978E+21	5,812876E+21	6,239957E+22	1,162585E+22	7,402542E+22
-920	3,120110E+22	3,119965E+22	5,812263E+21	5,812721E+21	6,240076E+22	1,162498E+22	7,402574E+22
-919	3,119949E+22	3,120091E+22	5,812894E+21	5,812180E+21	6,240039E+22	1,162507E+22	7,402547E+22
-918	3,120032E+22	3,120107E+22	5,812437E+21	5,812845E+21	6,240139E+22	1,162528E+22	7,402667E+22
-917	3,120095E+22	3,119991E+22	5,812357E+21	5,812530E+21	6,240086E+22	1,162489E+22	7,402575E+22
-916	3,119923E+22	3,120052E+22	5,813104E+21	5,812478E+21	6,239975E+22	1,162558E+22	7,402533E+22
-915	3,120054E+22	3,119967E+22	5,812603E+21	5,813270E+21	6,240021E+22	1,162587E+22	7,402608E+22
-914	3,119965E+22	3,119893E+22	5,813163E+21	5,812952E+21	6,239858E+22	1,162612E+22	7,402469E+22
-913	3,119820E+22	3,119924E+22	5,813665E+21	5,813537E+21	6,239744E+22	1,162720E+22	7,402465E+22
-912	3,119904E+22	3,119785E+22	5,813285E+21	5,814092E+21	6,239689E+22	1,162738E+22	7,402426E+22
-911	3,119703E+22	3,119770E+22	5,814288E+21	5,813753E+21	6,239472E+22	1,162804E+22	7,402276E+22
-910	3,119687E+22	3,119758E+22	5,814290E+21	5,814421E+21	6,239445E+22	1,162871E+22	7,402316E+22
-909	3,119764E+22	3,119606E+22	5,814116E+21	5,814395E+21	6,239369E+22	1,162851E+22	7,402220E+22
-908	3,119543E+22	3,119673E+22	5,814868E+21	5,814116E+21	6,239216E+22	1,162898E+22	7,402115E+22
-907	3,119656E+22	3,119662E+22	5,814207E+21	5,814796E+21	6,239318E+22	1,162900E+22	7,402218E+22
-906	3,119684E+22	3,119612E+22	5,814203E+21	5,814188E+21	6,239296E+22	1,162839E+22	7,402135E+22
-905	3,119612E+22	3,119734E+22	5,814380E+21	5,813973E+21	6,239346E+22	1,162835E+22	7,402181E+22
-904	3,119839E+22	3,119716E+22	5,813437E+21	5,814100E+21	6,239555E+22	1,162754E+22	7,402309E+22
-903	3,119785E+22	3,119785E+22	5,813791E+21	5,813209E+21	6,239569E+22	1,162700E+22	7,402269E+22
-902	3,119790E+22	3,119915E+22	5,813595E+21	5,813400E+21	6,239705E+22	1,162699E+22	7,402404E+22
-901	3,119944E+22	3,119854E+22	5,812920E+21	5,813386E+21	6,239798E+22	1,162631E+22	7,402429E+22
-900	3,119778E+22	3,119916E+22	5,813552E+21	5,812894E+21	6,239694E+22	1,162645E+22	7,402338E+22
-899	3,119878E+22	3,119927E+22	5,813119E+21	5,813530E+21	6,239805E+22	1,162665E+22	7,402470E+22
-898	3,119954E+22	3,119811E+22	5,813073E+21	5,813241E+21	6,239765E+22	1,162631E+22	7,402397E+22
-897	3,119795E+22	3,119867E+22	5,813750E+21	5,813216E+21	6,239662E+22	1,162697E+22	7,402358E+22
-896	3,119900E+22	3,119812E+22	5,813234E+21	5,814004E+21	6,239712E+22	1,162724E+22	7,402436E+22
-895	3,119779E+22	3,119737E+22	5,813914E+21	5,813791E+21	6,239516E+22	1,162770E+22	7,402286E+22
-894	3,119631E+22	3,119779E+22	5,814467E+21	5,814245E+21	6,239410E+22	1,162871E+22	7,402282E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-893	3,119738E+22	3,119622E+22	5,814123E+21	5,814788E+21	6,239360E+22	1,162891E+22	7,402251E+22
-892	3,119528E+22	3,119567E+22	5,815100E+21	5,814441E+21	6,239095E+22	1,162954E+22	7,402049E+22
-891	3,119510E+22	3,119581E+22	5,815058E+21	5,815125E+21	6,239092E+22	1,163018E+22	7,402110E+22
-890	3,119579E+22	3,119445E+22	5,814829E+21	5,815170E+21	6,239024E+22	1,163000E+22	7,402024E+22
-889	3,119390E+22	3,119505E+22	5,815430E+21	5,814869E+21	6,238895E+22	1,163030E+22	7,401925E+22
-888	3,119529E+22	3,119515E+22	5,814711E+21	5,815393E+21	6,239044E+22	1,163010E+22	7,402054E+22
-887	3,119560E+22	3,119476E+22	5,814784E+21	5,814746E+21	6,239035E+22	1,162953E+22	7,401988E+22
-886	3,119496E+22	3,119628E+22	5,814987E+21	5,814391E+21	6,239124E+22	1,162938E+22	7,402062E+22
-885	3,119716E+22	3,119611E+22	5,814070E+21	5,814610E+21	6,239327E+22	1,162868E+22	7,402195E+22
-884	3,119613E+22	3,119642E+22	5,814409E+21	5,813859E+21	6,239256E+22	1,162827E+22	7,402083E+22
-883	3,119614E+22	3,119770E+22	5,814219E+21	5,814101E+21	6,239385E+22	1,162832E+22	7,402217E+22
-882	3,119782E+22	3,119688E+22	5,813573E+21	5,814100E+21	6,239470E+22	1,162767E+22	7,402237E+22
-881	3,119661E+22	3,119725E+22	5,814114E+21	5,813553E+21	6,239386E+22	1,162767E+22	7,402152E+22
-880	3,119770E+22	3,119756E+22	5,813686E+21	5,814092E+21	6,239526E+22	1,162778E+22	7,402304E+22
-879	3,119809E+22	3,119664E+22	5,813749E+21	5,813928E+21	6,239474E+22	1,162768E+22	7,402242E+22
-878	3,119623E+22	3,119751E+22	5,814475E+21	5,813888E+21	6,239374E+22	1,162836E+22	7,402210E+22
-877	3,119721E+22	3,119681E+22	5,814040E+21	5,814769E+21	6,239402E+22	1,162881E+22	7,402282E+22
-876	3,119581E+22	3,119554E+22	5,814752E+21	5,814590E+21	6,239135E+22	1,162934E+22	7,402069E+22
-875	3,119446E+22	3,119591E+22	5,815319E+21	5,814988E+21	6,239037E+22	1,163031E+22	7,402068E+22
-874	3,119560E+22	3,119430E+22	5,814977E+21	5,815555E+21	6,238989E+22	1,163053E+22	7,402043E+22
-873	3,119368E+22	3,119366E+22	5,815789E+21	5,815244E+21	6,238733E+22	1,163103E+22	7,401836E+22
-872	3,119342E+22	3,119410E+22	5,815660E+21	5,815876E+21	6,238751E+22	1,163154E+22	7,401905E+22
-871	3,119408E+22	3,119291E+22	5,815468E+21	5,815955E+21	6,238700E+22	1,163142E+22	7,401842E+22
-870	3,119248E+22	3,119373E+22	5,816050E+21	5,815441E+21	6,238620E+22	1,163149E+22	7,401769E+22
-869	3,119414E+22	3,119389E+22	5,815363E+21	5,815898E+21	6,238804E+22	1,163126E+22	7,401930E+22
-868	3,119428E+22	3,119329E+22	5,815411E+21	5,815250E+21	6,238757E+22	1,163066E+22	7,401823E+22
-867	3,119345E+22	3,119502E+22	5,815611E+21	5,814927E+21	6,238847E+22	1,163054E+22	7,401901E+22
-866	3,119545E+22	3,119488E+22	5,814694E+21	5,815250E+21	6,239032E+22	1,162994E+22	7,402026E+22
-865	3,119467E+22	3,119483E+22	5,814921E+21	5,814547E+21	6,238950E+22	1,162947E+22	7,401897E+22
-864	3,119485E+22	3,119611E+22	5,814722E+21	5,814685E+21	6,239096E+22	1,162941E+22	7,402037E+22
-863	3,119657E+22	3,119534E+22	5,814173E+21	5,814719E+21	6,239191E+22	1,162889E+22	7,402080E+22
-862	3,119543E+22	3,119592E+22	5,814748E+21	5,814085E+21	6,239135E+22	1,162883E+22	7,402018E+22
-861	3,119637E+22	3,119633E+22	5,814397E+21	5,814744E+21	6,239270E+22	1,162914E+22	7,402184E+22
-860	3,119620E+22	3,119511E+22	5,814498E+21	5,814720E+21	6,239132E+22	1,162922E+22	7,402053E+22
-859	3,119426E+22	3,119591E+22	5,815294E+21	5,814705E+21	6,239016E+22	1,163000E+22	7,402016E+22
-858	3,119528E+22	3,119499E+22	5,814912E+21	5,815577E+21	6,239027E+22	1,163049E+22	7,402076E+22
-857	3,119420E+22	3,119341E+22	5,815511E+21	5,815378E+21	6,238761E+22	1,163089E+22	7,401850E+22
-856	3,119291E+22	3,119395E+22	5,816022E+21	5,815687E+21	6,238685E+22	1,163171E+22	7,401856E+22
-855	3,119377E+22	3,119257E+22	5,815702E+21	5,816348E+21	6,238634E+22	1,163205E+22	7,401839E+22
-854	3,119189E+22	3,119224E+22	5,816459E+21	5,815960E+21	6,238414E+22	1,163242E+22	7,401655E+22
-853	3,119188E+22	3,119268E+22	5,816346E+21	5,816580E+21	6,238455E+22	1,163293E+22	7,401748E+22
-852	3,119245E+22	3,119127E+22	5,816154E+21	5,816608E+21	6,238372E+22	1,163276E+22	7,401648E+22
-851	3,119111E+22	3,119227E+22	5,816737E+21	5,815992E+21	6,238338E+22	1,163273E+22	7,401611E+22
-850	3,119277E+22	3,119248E+22	5,816069E+21	5,816443E+21	6,238525E+22	1,163251E+22	7,401776E+22
-849	3,119290E+22	3,119181E+22	5,815961E+21	5,815874E+21	6,238471E+22	1,163183E+22	7,401654E+22
-848	3,119193E+22	3,119363E+22	5,816101E+21	5,815537E+21	6,238557E+22	1,163164E+22	7,401720E+22
-847	3,119381E+22	3,119348E+22	5,815251E+21	5,815924E+21	6,238729E+22	1,163118E+22	7,401847E+22
-846	3,119338E+22	3,119348E+22	5,815479E+21	5,815083E+21	6,238686E+22	1,163056E+22	7,401742E+22
-845	3,119381E+22	3,119473E+22	5,815351E+21	5,815214E+21	6,238854E+22	1,163057E+22	7,401910E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-844	3,119518E+22	3,119381E+22	5,814850E+21	5,815321E+21	6,238899E+22	1,163017E+22	7,401917E+22
-843	3,119384E+22	3,119459E+22	5,815459E+21	5,814761E+21	6,238843E+22	1,163022E+22	7,401865E+22
-842	3,119450E+22	3,119495E+22	5,815178E+21	5,815522E+21	6,238945E+22	1,163070E+22	7,402015E+22
-841	3,119447E+22	3,119334E+22	5,815197E+21	5,815561E+21	6,238781E+22	1,163076E+22	7,401857E+22
-840	3,119259E+22	3,119404E+22	5,816002E+21	5,815443E+21	6,238662E+22	1,163144E+22	7,401807E+22
-839	3,119358E+22	3,119316E+22	5,815697E+21	5,816339E+21	6,238674E+22	1,163204E+22	7,401877E+22
-838	3,119263E+22	3,119168E+22	5,816273E+21	5,816061E+21	6,238431E+22	1,163233E+22	7,401664E+22
-837	3,119124E+22	3,119232E+22	5,816784E+21	5,816450E+21	6,238356E+22	1,163323E+22	7,401680E+22
-836	3,119174E+22	3,119081E+22	5,816446E+21	5,817180E+21	6,238256E+22	1,163363E+22	7,401618E+22
-835	3,119009E+22	3,119056E+22	5,817198E+21	5,816718E+21	6,238065E+22	1,163392E+22	7,401457E+22
-834	3,119031E+22	3,119105E+22	5,817115E+21	5,817246E+21	6,238135E+22	1,163436E+22	7,401571E+22
-833	3,119121E+22	3,118955E+22	5,816783E+21	5,817208E+21	6,238076E+22	1,163399E+22	7,401475E+22
-832	3,118984E+22	3,119079E+22	5,817308E+21	5,816507E+21	6,238063E+22	1,163381E+22	7,401445E+22
-831	3,119115E+22	3,119128E+22	5,816656E+21	5,817049E+21	6,238243E+22	1,163371E+22	7,401613E+22
-830	3,119131E+22	3,119070E+22	5,816497E+21	5,816447E+21	6,238201E+22	1,163294E+22	7,401496E+22
-829	3,119056E+22	3,119238E+22	5,816665E+21	5,816137E+21	6,238295E+22	1,163280E+22	7,401575E+22
-828	3,119232E+22	3,119195E+22	5,815853E+21	5,816528E+21	6,238426E+22	1,163238E+22	7,401664E+22
-827	3,119217E+22	3,119201E+22	5,816116E+21	5,815651E+21	6,238418E+22	1,163177E+22	7,401595E+22
-826	3,119255E+22	3,119328E+22	5,816056E+21	5,815836E+21	6,238583E+22	1,163189E+22	7,401772E+22
-825	3,119375E+22	3,119228E+22	5,815457E+21	5,816062E+21	6,238602E+22	1,163152E+22	7,401754E+22
-824	3,119224E+22	3,119307E+22	5,816071E+21	5,815512E+21	6,238531E+22	1,163158E+22	7,401689E+22
-823	3,119269E+22	3,119334E+22	5,815899E+21	5,816296E+21	6,238603E+22	1,163220E+22	7,401822E+22
-822	3,119289E+22	3,119171E+22	5,815932E+21	5,816225E+21	6,238460E+22	1,163216E+22	7,401676E+22
-821	3,119118E+22	3,119229E+22	5,816781E+21	5,816111E+21	6,238347E+22	1,163289E+22	7,401636E+22
-820	3,119165E+22	3,119128E+22	5,816511E+21	5,817079E+21	6,238293E+22	1,163359E+22	7,401652E+22
-819	3,119067E+22	3,119001E+22	5,817071E+21	5,816855E+21	6,238068E+22	1,163393E+22	7,401461E+22
-818	3,118927E+22	3,119062E+22	5,817603E+21	5,817279E+21	6,237989E+22	1,163488E+22	7,401477E+22
-817	3,119004E+22	3,118894E+22	5,817145E+21	5,817993E+21	6,237898E+22	1,163514E+22	7,401412E+22
-816	3,118867E+22	3,118882E+22	5,817847E+21	5,817379E+21	6,237748E+22	1,163523E+22	7,401271E+22
-815	3,118886E+22	3,118951E+22	5,817806E+21	5,817863E+21	6,237838E+22	1,163567E+22	7,401405E+22
-814	3,118986E+22	3,118828E+22	5,817413E+21	5,817751E+21	6,237814E+22	1,163516E+22	7,401330E+22
-813	3,118836E+22	3,118959E+22	5,817909E+21	5,817127E+21	6,237795E+22	1,163504E+22	7,401298E+22
-812	3,118922E+22	3,118986E+22	5,817270E+21	5,817730E+21	6,237909E+22	1,163500E+22	7,401409E+22
-811	3,118973E+22	3,118922E+22	5,817113E+21	5,817082E+21	6,237895E+22	1,163420E+22	7,401315E+22
-810	3,118929E+22	3,119081E+22	5,817317E+21	5,816727E+21	6,238010E+22	1,163404E+22	7,401414E+22
-809	3,119130E+22	3,119027E+22	5,816405E+21	5,817115E+21	6,238157E+22	1,163352E+22	7,401509E+22
-808	3,119107E+22	3,119056E+22	5,816641E+21	5,816210E+21	6,238163E+22	1,163285E+22	7,401448E+22
-807	3,119104E+22	3,119210E+22	5,816654E+21	5,816491E+21	6,238314E+22	1,163315E+22	7,401629E+22
-806	3,119222E+22	3,119108E+22	5,816068E+21	5,816695E+21	6,238330E+22	1,163276E+22	7,401606E+22
-805	3,119072E+22	3,119165E+22	5,816769E+21	5,816188E+21	6,238237E+22	1,163296E+22	7,401533E+22
-804	3,119083E+22	3,119162E+22	5,816687E+21	5,816988E+21	6,238245E+22	1,163367E+22	7,401613E+22
-803	3,119121E+22	3,118991E+22	5,816769E+21	5,816931E+21	6,238112E+22	1,163370E+22	7,401482E+22
-802	3,118941E+22	3,119045E+22	5,817649E+21	5,816903E+21	6,237986E+22	1,163455E+22	7,401441E+22
-801	3,118977E+22	3,118933E+22	5,817240E+21	5,817976E+21	6,237910E+22	1,163522E+22	7,401432E+22
-800	3,118885E+22	3,118811E+22	5,817751E+21	5,817710E+21	6,237696E+22	1,163546E+22	7,401242E+22
-799	3,118753E+22	3,118887E+22	5,818326E+21	5,818079E+21	6,237640E+22	1,163640E+22	7,401280E+22
-798	3,118866E+22	3,118737E+22	5,817843E+21	5,818616E+21	6,237602E+22	1,163646E+22	7,401248E+22
-797	3,118743E+22	3,118737E+22	5,818543E+21	5,817963E+21	6,237481E+22	1,163651E+22	7,401132E+22
-796	3,118707E+22	3,118809E+22	5,818515E+21	5,818470E+21	6,237516E+22	1,163698E+22	7,401214E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-795	3,118803E+22	3,118701E+22	5,818088E+21	5,818400E+21	6,237504E+22	1,163649E+22	7,401153E+22
-794	3,118664E+22	3,118813E+22	5,818578E+21	5,817813E+21	6,237477E+22	1,163639E+22	7,401116E+22
-793	3,118775E+22	3,118815E+22	5,817816E+21	5,818395E+21	6,237590E+22	1,163621E+22	7,401211E+22
-792	3,118866E+22	3,118759E+22	5,817618E+21	5,817642E+21	6,237626E+22	1,163526E+22	7,401152E+22
-791	3,118826E+22	3,118936E+22	5,817874E+21	5,817267E+21	6,237762E+22	1,163514E+22	7,401276E+22
-790	3,119023E+22	3,118912E+22	5,816955E+21	5,817627E+21	6,237935E+22	1,163458E+22	7,401393E+22
-789	3,118979E+22	3,118948E+22	5,817208E+21	5,816828E+21	6,237927E+22	1,163404E+22	7,401331E+22
-788	3,118911E+22	3,119073E+22	5,817337E+21	5,817168E+21	6,237984E+22	1,163450E+22	7,401434E+22
-787	3,119045E+22	3,118959E+22	5,816831E+21	5,817369E+21	6,238004E+22	1,163420E+22	7,401424E+22
-786	3,118911E+22	3,118986E+22	5,817609E+21	5,816891E+21	6,237897E+22	1,163450E+22	7,401347E+22
-785	3,118919E+22	3,118961E+22	5,817442E+21	5,817741E+21	6,237880E+22	1,163518E+22	7,401398E+22
-784	3,118953E+22	3,118801E+22	5,817474E+21	5,817722E+21	6,237755E+22	1,163520E+22	7,401274E+22
-783	3,118751E+22	3,118872E+22	5,818359E+21	5,817767E+21	6,237623E+22	1,163613E+22	7,401235E+22
-782	3,118808E+22	3,118770E+22	5,817932E+21	5,818768E+21	6,237577E+22	1,163670E+22	7,401247E+22
-781	3,118738E+22	3,118650E+22	5,818457E+21	5,818452E+21	6,237389E+22	1,163691E+22	7,401079E+22
-780	3,118579E+22	3,118720E+22	5,819111E+21	5,818749E+21	6,237300E+22	1,163786E+22	7,401085E+22
-779	3,118710E+22	3,118584E+22	5,818657E+21	5,819240E+21	6,237294E+22	1,163790E+22	7,401084E+22
-778	3,118575E+22	3,118587E+22	5,819344E+21	5,818660E+21	6,237162E+22	1,163800E+22	7,400962E+22
-777	3,118522E+22	3,118643E+22	5,819147E+21	5,819225E+21	6,237165E+22	1,163837E+22	7,401002E+22
-776	3,118637E+22	3,118528E+22	5,818648E+21	5,819099E+21	6,237165E+22	1,163775E+22	7,400940E+22
-775	3,118523E+22	3,118650E+22	5,819131E+21	5,818444E+21	6,237174E+22	1,163758E+22	7,400931E+22
-774	3,118682E+22	3,118669E+22	5,818334E+21	5,818870E+21	6,237351E+22	1,163720E+22	7,401071E+22
-773	3,118780E+22	3,118637E+22	5,818138E+21	5,818104E+21	6,237416E+22	1,163624E+22	7,401041E+22
-772	3,118677E+22	3,118826E+22	5,818465E+21	5,817796E+21	6,237503E+22	1,163626E+22	7,401129E+22
-771	3,118859E+22	3,118810E+22	5,817610E+21	5,818212E+21	6,237669E+22	1,163582E+22	7,401252E+22
-770	3,118811E+22	3,118817E+22	5,817935E+21	5,817522E+21	6,237628E+22	1,163546E+22	7,401174E+22
-769	3,118741E+22	3,118900E+22	5,818009E+21	5,817884E+21	6,237641E+22	1,163589E+22	7,401230E+22
-768	3,118897E+22	3,118770E+22	5,817510E+21	5,818069E+21	6,237667E+22	1,163558E+22	7,401225E+22
-767	3,118761E+22	3,118800E+22	5,818324E+21	5,817641E+21	6,237562E+22	1,163597E+22	7,401158E+22
-766	3,118768E+22	3,118791E+22	5,818124E+21	5,818497E+21	6,237559E+22	1,163662E+22	7,401221E+22
-765	3,118791E+22	3,118643E+22	5,818146E+21	5,818547E+21	6,237433E+22	1,163669E+22	7,401103E+22
-764	3,118551E+22	3,118699E+22	5,819119E+21	5,818582E+21	6,237249E+22	1,163770E+22	7,401019E+22
-763	3,118634E+22	3,118605E+22	5,818775E+21	5,819489E+21	6,237240E+22	1,163826E+22	7,401066E+22
-762	3,118584E+22	3,118481E+22	5,819339E+21	5,819158E+21	6,237065E+22	1,163850E+22	7,400914E+22
-761	3,118409E+22	3,118539E+22	5,819886E+21	5,819441E+21	6,236948E+22	1,163933E+22	7,400881E+22
-760	3,118535E+22	3,118419E+22	5,819356E+21	5,819948E+21	6,236954E+22	1,163930E+22	7,400885E+22
-759	3,118389E+22	3,118427E+22	5,819989E+21	5,819401E+21	6,236817E+22	1,163939E+22	7,400756E+22
-758	3,118363E+22	3,118487E+22	5,819722E+21	5,819868E+21	6,236850E+22	1,163959E+22	7,400809E+22
-757	3,118515E+22	3,118384E+22	5,819175E+21	5,819678E+21	6,236899E+22	1,163885E+22	7,400784E+22
-756	3,118389E+22	3,118504E+22	5,819717E+21	5,818965E+21	6,236893E+22	1,163868E+22	7,400761E+22
-755	3,118564E+22	3,118551E+22	5,818987E+21	5,819364E+21	6,237115E+22	1,163835E+22	7,400950E+22
-754	3,118645E+22	3,118525E+22	5,818802E+21	5,818717E+21	6,237170E+22	1,163752E+22	7,400922E+22
-753	3,118508E+22	3,118687E+22	5,819049E+21	5,818485E+21	6,237196E+22	1,163753E+22	7,400949E+22
-752	3,118700E+22	3,118653E+22	5,818209E+21	5,818893E+21	6,237353E+22	1,163710E+22	7,401063E+22
-751	3,118660E+22	3,118649E+22	5,818576E+21	5,818207E+21	6,237309E+22	1,163678E+22	7,400987E+22
-750	3,118617E+22	3,118730E+22	5,818647E+21	5,818495E+21	6,237347E+22	1,163714E+22	7,401061E+22
-749	3,118770E+22	3,118613E+22	5,818149E+21	5,818721E+21	6,237383E+22	1,163687E+22	7,401070E+22
-748	3,118577E+22	3,118645E+22	5,819031E+21	5,818382E+21	6,237222E+22	1,163741E+22	7,400964E+22
-747	3,118584E+22	3,118643E+22	5,818911E+21	5,819258E+21	6,237227E+22	1,163817E+22	7,401044E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-746	3,118611E+22	3,118482E+22	5,818992E+21	5,819367E+21	6,237094E+22	1,163836E+22	7,400929E+22
-745	3,118375E+22	3,118511E+22	5,819908E+21	5,819367E+21	6,236886E+22	1,163927E+22	7,400813E+22
-744	3,118478E+22	3,118412E+22	5,819581E+21	5,820204E+21	6,236890E+22	1,163979E+22	7,400869E+22
-743	3,118416E+22	3,118305E+22	5,820132E+21	5,819908E+21	6,236722E+22	1,164004E+22	7,400725E+22
-742	3,118239E+22	3,118377E+22	5,820566E+21	5,820174E+21	6,236617E+22	1,164074E+22	7,400691E+22
-741	3,118357E+22	3,118263E+22	5,819965E+21	5,820687E+21	6,236620E+22	1,164065E+22	7,400685E+22
-740	3,118198E+22	3,118261E+22	5,820624E+21	5,820098E+21	6,236459E+22	1,164072E+22	7,400531E+22
-739	3,118221E+22	3,118333E+22	5,820400E+21	5,820433E+21	6,236554E+22	1,164083E+22	7,400637E+22
-738	3,118399E+22	3,118243E+22	5,819859E+21	5,820238E+21	6,236642E+22	1,164010E+22	7,400652E+22
-737	3,118261E+22	3,118361E+22	5,820290E+21	5,819535E+21	6,236622E+22	1,163982E+22	7,400604E+22
-736	3,118426E+22	3,118421E+22	5,819544E+21	5,819961E+21	6,236848E+22	1,163951E+22	7,400798E+22
-735	3,118490E+22	3,118401E+22	5,819360E+21	5,819375E+21	6,236891E+22	1,163873E+22	7,400764E+22
-734	3,118370E+22	3,118548E+22	5,819592E+21	5,819090E+21	6,236918E+22	1,163868E+22	7,400786E+22
-733	3,118573E+22	3,118510E+22	5,818773E+21	5,819466E+21	6,237083E+22	1,163824E+22	7,400907E+22
-732	3,118511E+22	3,118487E+22	5,819253E+21	5,818813E+21	6,236998E+22	1,163807E+22	7,400805E+22
-731	3,118471E+22	3,118581E+22	5,819421E+21	5,819130E+21	6,237052E+22	1,163855E+22	7,400907E+22
-730	3,118601E+22	3,118468E+22	5,818942E+21	5,819527E+21	6,237070E+22	1,163847E+22	7,400917E+22
-729	3,118381E+22	3,118465E+22	5,819752E+21	5,819241E+21	6,236846E+22	1,163899E+22	7,400745E+22
-728	3,118408E+22	3,118453E+22	5,819680E+21	5,820076E+21	6,236861E+22	1,163976E+22	7,400837E+22
-727	3,118447E+22	3,118295E+22	5,819788E+21	5,820142E+21	6,236742E+22	1,163993E+22	7,400734E+22
-726	3,118226E+22	3,118328E+22	5,820677E+21	5,820059E+21	6,236555E+22	1,164074E+22	7,400628E+22
-725	3,118316E+22	3,118255E+22	5,820305E+21	5,820895E+21	6,236571E+22	1,164120E+22	7,400691E+22
-724	3,118203E+22	3,118147E+22	5,820876E+21	5,820669E+21	6,236350E+22	1,164154E+22	7,400505E+22
-723	3,118040E+22	3,118224E+22	5,821325E+21	5,820901E+21	6,236265E+22	1,164223E+22	7,400487E+22
-722	3,118183E+22	3,118105E+22	5,820701E+21	5,821427E+21	6,236288E+22	1,164213E+22	7,400501E+22
-721	3,118047E+22	3,118079E+22	5,821242E+21	5,820759E+21	6,236126E+22	1,164200E+22	7,400326E+22
-720	3,118111E+22	3,118163E+22	5,821021E+21	5,821013E+21	6,236274E+22	1,164203E+22	7,400477E+22
-719	3,118279E+22	3,118108E+22	5,820455E+21	5,820833E+21	6,236387E+22	1,164129E+22	7,400515E+22
-718	3,118136E+22	3,118242E+22	5,820800E+21	5,820133E+21	6,236378E+22	1,164093E+22	7,400472E+22
-717	3,118285E+22	3,118307E+22	5,820041E+21	5,820537E+21	6,236591E+22	1,164058E+22	7,400649E+22
-716	3,118324E+22	3,118265E+22	5,819957E+21	5,819965E+21	6,236589E+22	1,163992E+22	7,400581E+22
-715	3,118233E+22	3,118407E+22	5,820289E+21	5,819618E+21	6,236640E+22	1,163991E+22	7,400631E+22
-714	3,118435E+22	3,118368E+22	5,819520E+21	5,820079E+21	6,236803E+22	1,163960E+22	7,400763E+22
-713	3,118351E+22	3,118323E+22	5,819923E+21	5,819520E+21	6,236674E+22	1,163944E+22	7,400619E+22
-712	3,118308E+22	3,118409E+22	5,820112E+21	5,819900E+21	6,236717E+22	1,164001E+22	7,400718E+22
-711	3,118421E+22	3,118304E+22	5,819654E+21	5,820352E+21	6,236725E+22	1,164001E+22	7,400726E+22
-710	3,118228E+22	3,118291E+22	5,820426E+21	5,820018E+21	6,236519E+22	1,164044E+22	7,400564E+22
-709	3,118259E+22	3,118283E+22	5,820385E+21	5,820765E+21	6,236542E+22	1,164115E+22	7,400657E+22
-708	3,118271E+22	3,118123E+22	5,820604E+21	5,820860E+21	6,236393E+22	1,164146E+22	7,400540E+22
-707	3,118047E+22	3,118170E+22	5,821545E+21	5,820782E+21	6,236217E+22	1,164233E+22	7,400450E+22
-706	3,118111E+22	3,118101E+22	5,821144E+21	5,821735E+21	6,236212E+22	1,164288E+22	7,400500E+22
-705	3,117991E+22	3,117952E+22	5,821592E+21	5,821521E+21	6,235944E+22	1,164311E+22	7,400255E+22
-704	3,117875E+22	3,118018E+22	5,822024E+21	5,821654E+21	6,235893E+22	1,164368E+22	7,400261E+22
-703	3,118046E+22	3,117926E+22	5,821369E+21	5,822085E+21	6,235972E+22	1,164345E+22	7,400318E+22
-702	3,117946E+22	3,117923E+22	5,821807E+21	5,821324E+21	6,235869E+22	1,164313E+22	7,400182E+22
-701	3,117996E+22	3,118047E+22	5,821545E+21	5,821529E+21	6,236043E+22	1,164307E+22	7,400350E+22
-700	3,118114E+22	3,118003E+22	5,821035E+21	5,821405E+21	6,236117E+22	1,164244E+22	7,400360E+22
-699	3,117976E+22	3,118136E+22	5,821448E+21	5,820685E+21	6,236112E+22	1,164213E+22	7,400325E+22
-698	3,118129E+22	3,118188E+22	5,820720E+21	5,821137E+21	6,236316E+22	1,164186E+22	7,400502E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-697	3,118169E+22	3,118096E+22	5,820588E+21	5,820580E+21	6,236266E+22	1,164117E+22	7,400382E+22
-696	3,118107E+22	3,118226E+22	5,820963E+21	5,820262E+21	6,236333E+22	1,164122E+22	7,400456E+22
-695	3,118289E+22	3,118208E+22	5,820182E+21	5,820809E+21	6,236497E+22	1,164099E+22	7,400596E+22
-694	3,118202E+22	3,118162E+22	5,820497E+21	5,820304E+21	6,236364E+22	1,164080E+22	7,400444E+22
-693	3,118152E+22	3,118254E+22	5,820697E+21	5,820635E+21	6,236406E+22	1,164133E+22	7,400540E+22
-692	3,118247E+22	3,118138E+22	5,820380E+21	5,821071E+21	6,236385E+22	1,164145E+22	7,400530E+22
-691	3,118076E+22	3,118131E+22	5,821272E+21	5,820665E+21	6,236207E+22	1,164194E+22	7,400401E+22
-690	3,118091E+22	3,118131E+22	5,821276E+21	5,821476E+21	6,236223E+22	1,164275E+22	7,400498E+22
-689	3,118065E+22	3,117943E+22	5,821415E+21	5,821668E+21	6,236009E+22	1,164308E+22	7,400317E+22
-688	3,117850E+22	3,117977E+22	5,822337E+21	5,821635E+21	6,235826E+22	1,164397E+22	7,400224E+22
-687	3,117911E+22	3,117914E+22	5,821893E+21	5,822571E+21	6,235825E+22	1,164446E+22	7,400272E+22
-686	3,117841E+22	3,117762E+22	5,822221E+21	5,822271E+21	6,235603E+22	1,164449E+22	7,400052E+22
-685	3,117755E+22	3,117850E+22	5,822611E+21	5,822246E+21	6,235605E+22	1,164486E+22	7,400090E+22
-684	3,117909E+22	3,117784E+22	5,822040E+21	5,822666E+21	6,235693E+22	1,164471E+22	7,400164E+22
-683	3,117810E+22	3,117815E+22	5,822492E+21	5,821889E+21	6,235625E+22	1,164438E+22	7,400064E+22
-682	3,117829E+22	3,117948E+22	5,822217E+21	5,822167E+21	6,235776E+22	1,164438E+22	7,400215E+22
-681	3,117931E+22	3,117858E+22	5,821638E+21	5,822064E+21	6,235789E+22	1,164370E+22	7,400160E+22
-680	3,117836E+22	3,117958E+22	5,822074E+21	5,821303E+21	6,235794E+22	1,164338E+22	7,400131E+22
-679	3,117990E+22	3,118022E+22	5,821350E+21	5,821723E+21	6,236012E+22	1,164307E+22	7,400319E+22
-678	3,118059E+22	3,117935E+22	5,821119E+21	5,821197E+21	6,235994E+22	1,164232E+22	7,400225E+22
-677	3,117981E+22	3,118084E+22	5,821462E+21	5,820877E+21	6,236065E+22	1,164234E+22	7,400299E+22
-676	3,118122E+22	3,118074E+22	5,820798E+21	5,821505E+21	6,236196E+22	1,164230E+22	7,400426E+22
-675	3,118047E+22	3,118030E+22	5,821201E+21	5,820971E+21	6,236077E+22	1,164217E+22	7,400294E+22
-674	3,117993E+22	3,118116E+22	5,821480E+21	5,821322E+21	6,236109E+22	1,164280E+22	7,400389E+22
-673	3,118074E+22	3,117958E+22	5,821183E+21	5,821782E+21	6,236032E+22	1,164297E+22	7,400329E+22
-672	3,117916E+22	3,117934E+22	5,822143E+21	5,821439E+21	6,235850E+22	1,164358E+22	7,400209E+22
-671	3,117891E+22	3,117956E+22	5,822122E+21	5,822322E+21	6,235847E+22	1,164444E+22	7,400291E+22
-670	3,117872E+22	3,117753E+22	5,822125E+21	5,822574E+21	6,235625E+22	1,164470E+22	7,400095E+22
-669	3,117671E+22	3,117783E+22	5,822986E+21	5,822433E+21	6,235454E+22	1,164542E+22	7,399996E+22
-668	3,117739E+22	3,117728E+22	5,822621E+21	5,823295E+21	6,235466E+22	1,164592E+22	7,400058E+22
-667	3,117707E+22	3,117606E+22	5,822976E+21	5,822867E+21	6,235313E+22	1,164584E+22	7,399897E+22
-666	3,117618E+22	3,117728E+22	5,823354E+21	5,822859E+21	6,235346E+22	1,164621E+22	7,399967E+22
-665	3,117735E+22	3,117646E+22	5,822714E+21	5,823317E+21	6,235381E+22	1,164603E+22	7,399984E+22
-664	3,117645E+22	3,117669E+22	5,823150E+21	5,822572E+21	6,235313E+22	1,164572E+22	7,399886E+22
-663	3,117657E+22	3,117804E+22	5,822836E+21	5,822807E+21	6,235461E+22	1,164564E+22	7,400025E+22
-662	3,117797E+22	3,117693E+22	5,822146E+21	5,822674E+21	6,235490E+22	1,164482E+22	7,399972E+22
-661	3,117729E+22	3,117797E+22	5,822552E+21	5,821817E+21	6,235526E+22	1,164437E+22	7,399963E+22
-660	3,117863E+22	3,117878E+22	5,821940E+21	5,822285E+21	6,235741E+22	1,164423E+22	7,400163E+22
-659	3,117928E+22	3,117819E+22	5,821743E+21	5,821799E+21	6,235747E+22	1,164354E+22	7,400101E+22
-658	3,117827E+22	3,117973E+22	5,822110E+21	5,821573E+21	6,235800E+22	1,164368E+22	7,400168E+22
-657	3,117944E+22	3,117915E+22	5,821484E+21	5,822217E+21	6,235858E+22	1,164370E+22	7,400228E+22
-656	3,117903E+22	3,117846E+22	5,821972E+21	5,821680E+21	6,235749E+22	1,164365E+22	7,400115E+22
-655	3,117830E+22	3,117944E+22	5,822300E+21	5,822007E+21	6,235774E+22	1,164431E+22	7,400204E+22
-654	3,117916E+22	3,117779E+22	5,821925E+21	5,822554E+21	6,235695E+22	1,164448E+22	7,400143E+22
-653	3,117738E+22	3,117760E+22	5,822833E+21	5,822224E+21	6,235498E+22	1,164506E+22	7,400004E+22
-652	3,117678E+22	3,117782E+22	5,822888E+21	5,823163E+21	6,235460E+22	1,164605E+22	7,400065E+22
-651	3,117690E+22	3,117585E+22	5,822906E+21	5,823354E+21	6,235275E+22	1,164626E+22	7,399901E+22
-650	3,117508E+22	3,117619E+22	5,823753E+21	5,823168E+21	6,235126E+22	1,164692E+22	7,399819E+22
-649	3,117577E+22	3,117543E+22	5,823391E+21	5,823990E+21	6,235120E+22	1,164738E+22	7,399858E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-648	3,117572E+22	3,117431E+22	5,823742E+21	5,823568E+21	6,235003E+22	1,164731E+22	7,399734E+22
-647	3,117442E+22	3,117587E+22	5,824064E+21	5,823557E+21	6,235029E+22	1,164762E+22	7,399791E+22
-646	3,117570E+22	3,117496E+22	5,823277E+21	5,824035E+21	6,235066E+22	1,164731E+22	7,399797E+22
-645	3,117499E+22	3,117507E+22	5,823648E+21	5,823163E+21	6,235006E+22	1,164681E+22	7,399687E+22
-644	3,117510E+22	3,117649E+22	5,823423E+21	5,823341E+21	6,235159E+22	1,164676E+22	7,399836E+22
-643	3,117683E+22	3,117561E+22	5,822760E+21	5,823144E+21	6,235244E+22	1,164590E+22	7,399834E+22
-642	3,117607E+22	3,117685E+22	5,823156E+21	5,822368E+21	6,235292E+22	1,164552E+22	7,399845E+22
-641	3,117702E+22	3,117743E+22	5,822558E+21	5,822925E+21	6,235445E+22	1,164548E+22	7,399994E+22
-640	3,117779E+22	3,117671E+22	5,822403E+21	5,822505E+21	6,235450E+22	1,164491E+22	7,399941E+22
-639	3,117662E+22	3,117829E+22	5,822804E+21	5,822255E+21	6,235491E+22	1,164506E+22	7,399997E+22
-638	3,117803E+22	3,117745E+22	5,822135E+21	5,822911E+21	6,235548E+22	1,164505E+22	7,400052E+22
-637	3,117768E+22	3,117671E+22	5,822643E+21	5,822343E+21	6,235440E+22	1,164499E+22	7,399938E+22
-636	3,117655E+22	3,117779E+22	5,823088E+21	5,822757E+21	6,235434E+22	1,164585E+22	7,400019E+22
-635	3,117726E+22	3,117629E+22	5,822727E+21	5,823358E+21	6,235355E+22	1,164609E+22	7,399964E+22
-634	3,117542E+22	3,117600E+22	5,823611E+21	5,823094E+21	6,235142E+22	1,164671E+22	7,399813E+22
-633	3,117477E+22	3,117571E+22	5,823683E+21	5,823984E+21	6,235048E+22	1,164767E+22	7,399815E+22
-632	3,117535E+22	3,117374E+22	5,823724E+21	5,824117E+21	6,234909E+22	1,164784E+22	7,399693E+22
-631	3,117353E+22	3,117444E+22	5,824540E+21	5,823857E+21	6,234798E+22	1,164840E+22	7,399637E+22
-630	3,117429E+22	3,117378E+22	5,824068E+21	5,824706E+21	6,234807E+22	1,164877E+22	7,399684E+22
-629	3,117413E+22	3,117288E+22	5,824331E+21	5,824233E+21	6,234701E+22	1,164856E+22	7,399557E+22
-628	3,117259E+22	3,117450E+22	5,824704E+21	5,824207E+21	6,234710E+22	1,164891E+22	7,399601E+22
-627	3,117413E+22	3,117367E+22	5,823913E+21	5,824592E+21	6,234779E+22	1,164851E+22	7,399630E+22
-626	3,117363E+22	3,117376E+22	5,824257E+21	5,823708E+21	6,234739E+22	1,164797E+22	7,399535E+22
-625	3,117368E+22	3,117486E+22	5,824063E+21	5,823893E+21	6,234853E+22	1,164796E+22	7,399649E+22
-624	3,117560E+22	3,117411E+22	5,823414E+21	5,823782E+21	6,234971E+22	1,164720E+22	7,399691E+22
-623	3,117452E+22	3,117559E+22	5,823764E+21	5,823054E+21	6,235011E+22	1,164682E+22	7,399693E+22
-622	3,117557E+22	3,117594E+22	5,823100E+21	5,823656E+21	6,235151E+22	1,164676E+22	7,399827E+22
-621	3,117649E+22	3,117511E+22	5,822938E+21	5,823134E+21	6,235161E+22	1,164607E+22	7,399768E+22
-620	3,117518E+22	3,117673E+22	5,823487E+21	5,822862E+21	6,235190E+22	1,164635E+22	7,399825E+22
-619	3,117664E+22	3,117607E+22	5,822889E+21	5,823503E+21	6,235271E+22	1,164639E+22	7,399910E+22
-618	3,117603E+22	3,117535E+22	5,823407E+21	5,823065E+21	6,235138E+22	1,164647E+22	7,399785E+22
-617	3,117441E+22	3,117604E+22	5,823891E+21	5,823579E+21	6,235045E+22	1,164747E+22	7,399792E+22
-616	3,117534E+22	3,117434E+22	5,823546E+21	5,824232E+21	6,234968E+22	1,164778E+22	7,399746E+22
-615	3,117349E+22	3,117406E+22	5,824405E+21	5,823906E+21	6,234756E+22	1,164831E+22	7,399587E+22
-614	3,117326E+22	3,117365E+22	5,824403E+21	5,824763E+21	6,234691E+22	1,164917E+22	7,399608E+22
-613	3,117402E+22	3,117186E+22	5,824416E+21	5,824798E+21	6,234588E+22	1,164921E+22	7,399510E+22
-612	3,117187E+22	3,117294E+22	5,825297E+21	5,824571E+21	6,234481E+22	1,164987E+22	7,399468E+22
-611	3,117251E+22	3,117257E+22	5,824805E+21	5,825396E+21	6,234508E+22	1,165020E+22	7,399528E+22
-610	3,117230E+22	3,117160E+22	5,825015E+21	5,824938E+21	6,234390E+22	1,164995E+22	7,399385E+22
-609	3,117073E+22	3,117274E+22	5,825400E+21	5,824851E+21	6,234347E+22	1,165025E+22	7,399372E+22
-608	3,117272E+22	3,117189E+22	5,824607E+21	5,825192E+21	6,234461E+22	1,164980E+22	7,399441E+22
-607	3,117225E+22	3,117225E+22	5,824898E+21	5,824289E+21	6,234450E+22	1,164919E+22	7,399369E+22
-606	3,117243E+22	3,117334E+22	5,824596E+21	5,824546E+21	6,234577E+22	1,164914E+22	7,399491E+22
-605	3,117430E+22	3,117278E+22	5,823887E+21	5,824410E+21	6,234708E+22	1,164830E+22	7,399537E+22
-604	3,117306E+22	3,117434E+22	5,824320E+21	5,823690E+21	6,234741E+22	1,164801E+22	7,399542E+22
-603	3,117424E+22	3,117475E+22	5,823721E+21	5,824197E+21	6,234899E+22	1,164792E+22	7,399691E+22
-602	3,117522E+22	3,117388E+22	5,823600E+21	5,823708E+21	6,234910E+22	1,164731E+22	7,399641E+22
-601	3,117359E+22	3,117502E+22	5,824261E+21	5,823497E+21	6,234860E+22	1,164776E+22	7,399636E+22
-600	3,117491E+22	3,117440E+22	5,823710E+21	5,824264E+21	6,234931E+22	1,164797E+22	7,399728E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-599	3,117397E+22	3,117372E+22	5,824190E+21	5,823921E+21	6,234770E+22	1,164811E+22	7,399581E+22
-598	3,117255E+22	3,117395E+22	5,824600E+21	5,824474E+21	6,234650E+22	1,164907E+22	7,399557E+22
-597	3,117375E+22	3,117225E+22	5,824228E+21	5,825003E+21	6,234600E+22	1,164923E+22	7,399523E+22
-596	3,117196E+22	3,117220E+22	5,825161E+21	5,824624E+21	6,234416E+22	1,164978E+22	7,399394E+22
-595	3,117179E+22	3,117217E+22	5,825194E+21	5,825415E+21	6,234396E+22	1,165061E+22	7,399457E+22
-594	3,117233E+22	3,117064E+22	5,825178E+21	5,825520E+21	6,234298E+22	1,165070E+22	7,399367E+22
-593	3,116975E+22	3,117137E+22	5,826086E+21	5,825331E+21	6,234112E+22	1,165142E+22	7,399254E+22
-592	3,117060E+22	3,117091E+22	5,825588E+21	5,826140E+21	6,234151E+22	1,165173E+22	7,399324E+22
-591	3,117047E+22	3,116995E+22	5,825726E+21	5,825623E+21	6,234042E+22	1,165135E+22	7,399177E+22
-590	3,116938E+22	3,117081E+22	5,825996E+21	5,825515E+21	6,234019E+22	1,165151E+22	7,399170E+22
-589	3,117160E+22	3,117018E+22	5,825137E+21	5,825781E+21	6,234179E+22	1,165092E+22	7,399270E+22
-588	3,117093E+22	3,117094E+22	5,825442E+21	5,824923E+21	6,234188E+22	1,165037E+22	7,399224E+22
-587	3,117113E+22	3,117231E+22	5,825142E+21	5,825145E+21	6,234344E+22	1,165029E+22	7,399373E+22
-586	3,117297E+22	3,117169E+22	5,824443E+21	5,824991E+21	6,234466E+22	1,164943E+22	7,399409E+22
-585	3,117155E+22	3,117281E+22	5,824987E+21	5,824246E+21	6,234436E+22	1,164923E+22	7,399360E+22
-584	3,117290E+22	3,117321E+22	5,824466E+21	5,824749E+21	6,234611E+22	1,164921E+22	7,399532E+22
-583	3,117357E+22	3,117242E+22	5,824358E+21	5,824349E+21	6,234599E+22	1,164871E+22	7,399470E+22
-582	3,117187E+22	3,117327E+22	5,824948E+21	5,824291E+21	6,234515E+22	1,164924E+22	7,399439E+22
-581	3,117312E+22	3,117261E+22	5,824360E+21	5,825065E+21	6,234573E+22	1,164942E+22	7,399515E+22
-580	3,117213E+22	3,117194E+22	5,824896E+21	5,824744E+21	6,234407E+22	1,164964E+22	7,399371E+22
-579	3,117100E+22	3,117225E+22	5,825335E+21	5,825193E+21	6,234325E+22	1,165053E+22	7,399377E+22
-578	3,117229E+22	3,117066E+22	5,824992E+21	5,825714E+21	6,234295E+22	1,165071E+22	7,399366E+22
-577	3,117022E+22	3,117041E+22	5,826021E+21	5,825379E+21	6,234063E+22	1,165140E+22	7,399203E+22
-576	3,116992E+22	3,117059E+22	5,826072E+21	5,826221E+21	6,234051E+22	1,165229E+22	7,399280E+22
-575	3,117018E+22	3,116912E+22	5,825997E+21	5,826365E+21	6,233930E+22	1,165236E+22	7,399167E+22
-574	3,116790E+22	3,116935E+22	5,826782E+21	5,826159E+21	6,233725E+22	1,165294E+22	7,399019E+22
-573	3,116905E+22	3,116892E+22	5,826206E+21	5,826796E+21	6,233797E+22	1,165300E+22	7,399097E+22
-572	3,116912E+22	3,116824E+22	5,826341E+21	5,826232E+21	6,233736E+22	1,165257E+22	7,398993E+22
-571	3,116821E+22	3,116946E+22	5,826585E+21	5,826050E+21	6,233767E+22	1,165263E+22	7,399030E+22
-570	3,117031E+22	3,116920E+22	5,825689E+21	5,826357E+21	6,233951E+22	1,165205E+22	7,399156E+22
-569	3,116937E+22	3,116966E+22	5,826043E+21	5,825526E+21	6,233903E+22	1,165157E+22	7,399060E+22
-568	3,116966E+22	3,117102E+22	5,825797E+21	5,825711E+21	6,234069E+22	1,165151E+22	7,399220E+22
-567	3,117145E+22	3,117043E+22	5,825103E+21	5,825547E+21	6,234189E+22	1,165065E+22	7,399254E+22
-566	3,117026E+22	3,117106E+22	5,825617E+21	5,824873E+21	6,234132E+22	1,165049E+22	7,399181E+22
-565	3,117149E+22	3,117155E+22	5,825097E+21	5,825384E+21	6,234304E+22	1,165048E+22	7,399353E+22
-564	3,117185E+22	3,117093E+22	5,825017E+21	5,825131E+21	6,234278E+22	1,165015E+22	7,399293E+22
-563	3,117018E+22	3,117174E+22	5,825610E+21	5,825078E+21	6,234191E+22	1,165069E+22	7,399260E+22
-562	3,117150E+22	3,117100E+22	5,825040E+21	5,825834E+21	6,234249E+22	1,165087E+22	7,399337E+22
-561	3,117046E+22	3,116995E+22	5,825677E+21	5,825479E+21	6,234041E+22	1,165116E+22	7,399157E+22
-560	3,116949E+22	3,117047E+22	5,826190E+21	5,825896E+21	6,233995E+22	1,165209E+22	7,399204E+22
-559	3,117049E+22	3,116913E+22	5,825860E+21	5,826476E+21	6,233962E+22	1,165234E+22	7,399196E+22
-558	3,116834E+22	3,116860E+22	5,826806E+21	5,826257E+21	6,233694E+22	1,165306E+22	7,399001E+22
-557	3,116799E+22	3,116878E+22	5,826798E+21	5,827023E+21	6,233677E+22	1,165382E+22	7,399059E+22
-556	3,116827E+22	3,116736E+22	5,826716E+21	5,827142E+21	6,233563E+22	1,165386E+22	7,398949E+22
-555	3,116642E+22	3,116763E+22	5,827448E+21	5,826799E+21	6,233406E+22	1,165425E+22	7,398830E+22
-554	3,116777E+22	3,116735E+22	5,826843E+21	5,827368E+21	6,233513E+22	1,165421E+22	7,398934E+22
-553	3,116762E+22	3,116664E+22	5,827024E+21	5,826844E+21	6,233426E+22	1,165387E+22	7,398813E+22
-552	3,116672E+22	3,116822E+22	5,827250E+21	5,826692E+21	6,233493E+22	1,165394E+22	7,398888E+22
-551	3,116860E+22	3,116804E+22	5,826340E+21	5,827017E+21	6,233664E+22	1,165336E+22	7,399000E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-550	3,116795E+22	3,116803E+22	5,826616E+21	5,826189E+21	6,233598E+22	1,165280E+22	7,398878E+22
-549	3,116842E+22	3,116939E+22	5,826357E+21	5,826234E+21	6,233780E+22	1,165259E+22	7,399039E+22
-548	3,117012E+22	3,116898E+22	5,825708E+21	5,826114E+21	6,233911E+22	1,165182E+22	7,399093E+22
-547	3,116895E+22	3,116971E+22	5,826223E+21	5,825480E+21	6,233866E+22	1,165170E+22	7,399036E+22
-546	3,116990E+22	3,117031E+22	5,825705E+21	5,826069E+21	6,234021E+22	1,165177E+22	7,399198E+22
-545	3,117000E+22	3,116928E+22	5,825722E+21	5,825902E+21	6,233928E+22	1,165162E+22	7,399091E+22
-544	3,116853E+22	3,117006E+22	5,826363E+21	5,825815E+21	6,233859E+22	1,165218E+22	7,399076E+22
-543	3,116985E+22	3,116934E+22	5,825842E+21	5,826560E+21	6,233919E+22	1,165240E+22	7,399160E+22
-542	3,116904E+22	3,116792E+22	5,826448E+21	5,826265E+21	6,233696E+22	1,165271E+22	7,398967E+22
-541	3,116789E+22	3,116866E+22	5,826962E+21	5,826656E+21	6,233655E+22	1,165362E+22	7,399016E+22
-540	3,116854E+22	3,116759E+22	5,826645E+21	5,827339E+21	6,233613E+22	1,165398E+22	7,399011E+22
-539	3,116647E+22	3,116692E+22	5,827558E+21	5,827073E+21	6,233338E+22	1,165463E+22	7,398802E+22
-538	3,116618E+22	3,116709E+22	5,827521E+21	5,827738E+21	6,233327E+22	1,165526E+22	7,398853E+22
-537	3,116653E+22	3,116537E+22	5,827483E+21	5,827811E+21	6,233190E+22	1,165529E+22	7,398719E+22
-536	3,116490E+22	3,116591E+22	5,828202E+21	5,827411E+21	6,233082E+22	1,165561E+22	7,398643E+22
-535	3,116613E+22	3,116601E+22	5,827564E+21	5,828024E+21	6,233214E+22	1,165559E+22	7,398773E+22
-534	3,116609E+22	3,116508E+22	5,827619E+21	5,827576E+21	6,233116E+22	1,165520E+22	7,398636E+22
-533	3,116526E+22	3,116675E+22	5,827795E+21	5,827322E+21	6,233201E+22	1,165512E+22	7,398713E+22
-532	3,116717E+22	3,116673E+22	5,826898E+21	5,827615E+21	6,233389E+22	1,165451E+22	7,398841E+22
-531	3,116682E+22	3,116665E+22	5,827158E+21	5,826711E+21	6,233348E+22	1,165387E+22	7,398734E+22
-530	3,116725E+22	3,116811E+22	5,826926E+21	5,826735E+21	6,233535E+22	1,165366E+22	7,398901E+22
-529	3,116855E+22	3,116751E+22	5,826377E+21	5,826749E+21	6,233607E+22	1,165313E+22	7,398919E+22
-528	3,116729E+22	3,116834E+22	5,826912E+21	5,826197E+21	6,233563E+22	1,165311E+22	7,398874E+22
-527	3,116809E+22	3,116883E+22	5,826432E+21	5,826832E+21	6,233692E+22	1,165326E+22	7,399019E+22
-526	3,116848E+22	3,116727E+22	5,826403E+21	5,826690E+21	6,233575E+22	1,165309E+22	7,398884E+22
-525	3,116720E+22	3,116812E+22	5,827051E+21	5,826488E+21	6,233532E+22	1,165354E+22	7,398886E+22
-524	3,116833E+22	3,116769E+22	5,826609E+21	5,827271E+21	6,233602E+22	1,165388E+22	7,398990E+22
-523	3,116746E+22	3,116643E+22	5,827209E+21	5,827025E+21	6,233389E+22	1,165423E+22	7,398812E+22
-522	3,116600E+22	3,116723E+22	5,827720E+21	5,827421E+21	6,233323E+22	1,165514E+22	7,398837E+22
-521	3,116633E+22	3,116578E+22	5,827494E+21	5,828154E+21	6,233211E+22	1,165565E+22	7,398776E+22
-520	3,116452E+22	3,116512E+22	5,828390E+21	5,827829E+21	6,232963E+22	1,165622E+22	7,398585E+22
-519	3,116434E+22	3,116527E+22	5,828344E+21	5,828455E+21	6,232960E+22	1,165680E+22	7,398640E+22
-518	3,116500E+22	3,116329E+22	5,828204E+21	5,828575E+21	6,232829E+22	1,165678E+22	7,398507E+22
-517	3,116345E+22	3,116418E+22	5,828829E+21	5,828125E+21	6,232764E+22	1,165695E+22	7,398459E+22
-516	3,116451E+22	3,116466E+22	5,828174E+21	5,828770E+21	6,232916E+22	1,165694E+22	7,398611E+22
-515	3,116474E+22	3,116373E+22	5,828162E+21	5,828230E+21	6,232847E+22	1,165639E+22	7,398486E+22
-514	3,116402E+22	3,116546E+22	5,828325E+21	5,827818E+21	6,232947E+22	1,165614E+22	7,398562E+22
-513	3,116580E+22	3,116526E+22	5,827537E+21	5,828094E+21	6,233106E+22	1,165563E+22	7,398669E+22
-512	3,116548E+22	3,116538E+22	5,827825E+21	5,827216E+21	6,233086E+22	1,165504E+22	7,398590E+22
-511	3,116558E+22	3,116694E+22	5,827620E+21	5,827361E+21	6,233252E+22	1,165498E+22	7,398750E+22
-510	3,116690E+22	3,116587E+22	5,827000E+21	5,827519E+21	6,233278E+22	1,165452E+22	7,398730E+22
-509	3,116577E+22	3,116663E+22	5,827507E+21	5,826915E+21	6,233239E+22	1,165442E+22	7,398682E+22
-508	3,116664E+22	3,116721E+22	5,827084E+21	5,827542E+21	6,233385E+22	1,165463E+22	7,398848E+22
-507	3,116730E+22	3,116559E+22	5,827057E+21	5,827347E+21	6,233289E+22	1,165440E+22	7,398730E+22
-506	3,116585E+22	3,116662E+22	5,827760E+21	5,827122E+21	6,233247E+22	1,165488E+22	7,398735E+22
-505	3,116643E+22	3,116613E+22	5,827446E+21	5,828045E+21	6,233256E+22	1,165549E+22	7,398806E+22
-504	3,116534E+22	3,116491E+22	5,828073E+21	5,827871E+21	6,233025E+22	1,165594E+22	7,398619E+22
-503	3,116377E+22	3,116551E+22	5,828604E+21	5,828284E+21	6,232928E+22	1,165689E+22	7,398617E+22
-502	3,116444E+22	3,116347E+22	5,828289E+21	5,828990E+21	6,232791E+22	1,165728E+22	7,398518E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-501	3,116296E+22	3,116290E+22	5,829110E+21	5,828556E+21	6,232587E+22	1,165767E+22	7,398353E+22
-500	3,116279E+22	3,116347E+22	5,829055E+21	5,829183E+21	6,232625E+22	1,165824E+22	7,398449E+22
-499	3,116357E+22	3,116180E+22	5,828821E+21	5,829296E+21	6,232537E+22	1,165812E+22	7,398349E+22
-498	3,116198E+22	3,116295E+22	5,829398E+21	5,828765E+21	6,232493E+22	1,165816E+22	7,398310E+22
-497	3,116285E+22	3,116328E+22	5,828844E+21	5,829387E+21	6,232613E+22	1,165823E+22	7,398436E+22
-496	3,116327E+22	3,116249E+22	5,828833E+21	5,828759E+21	6,232576E+22	1,165759E+22	7,398335E+22
-495	3,116257E+22	3,116415E+22	5,829025E+21	5,828335E+21	6,232672E+22	1,165736E+22	7,398408E+22
-494	3,116438E+22	3,116358E+22	5,828182E+21	5,828714E+21	6,232796E+22	1,165690E+22	7,398485E+22
-493	3,116402E+22	3,116384E+22	5,828407E+21	5,827894E+21	6,232786E+22	1,165630E+22	7,398417E+22
-492	3,116391E+22	3,116548E+22	5,828225E+21	5,828116E+21	6,232940E+22	1,165634E+22	7,398574E+22
-491	3,116553E+22	3,116431E+22	5,827566E+21	5,828242E+21	6,232984E+22	1,165581E+22	7,398564E+22
-490	3,116458E+22	3,116506E+22	5,828070E+21	5,827502E+21	6,232964E+22	1,165557E+22	7,398521E+22
-489	3,116518E+22	3,116556E+22	5,827821E+21	5,828144E+21	6,233074E+22	1,165597E+22	7,398671E+22
-488	3,116572E+22	3,116426E+22	5,827850E+21	5,827999E+21	6,232998E+22	1,165585E+22	7,398582E+22
-487	3,116387E+22	3,116527E+22	5,828618E+21	5,827902E+21	6,232915E+22	1,165652E+22	7,398567E+22
-486	3,116431E+22	3,116424E+22	5,828268E+21	5,828941E+21	6,232856E+22	1,165721E+22	7,398577E+22
-485	3,116340E+22	3,116287E+22	5,828849E+21	5,828728E+21	6,232626E+22	1,165758E+22	7,398384E+22
-484	3,116192E+22	3,116349E+22	5,829381E+21	5,829102E+21	6,232541E+22	1,165848E+22	7,398389E+22
-483	3,116301E+22	3,116145E+22	5,828995E+21	5,829760E+21	6,232447E+22	1,165875E+22	7,398322E+22
-482	3,116160E+22	3,116120E+22	5,829762E+21	5,829225E+21	6,232279E+22	1,165899E+22	7,398178E+22
-481	3,116106E+22	3,116195E+22	5,829799E+21	5,829920E+21	6,232301E+22	1,165972E+22	7,398273E+22
-480	3,116180E+22	3,116058E+22	5,829553E+21	5,830000E+21	6,232239E+22	1,165955E+22	7,398194E+22
-479	3,116024E+22	3,116166E+22	5,830144E+21	5,829427E+21	6,232190E+22	1,165957E+22	7,398147E+22
-478	3,116133E+22	3,116151E+22	5,829527E+21	5,830000E+21	6,232284E+22	1,165953E+22	7,398237E+22
-477	3,116193E+22	3,116082E+22	5,829452E+21	5,829306E+21	6,232275E+22	1,165876E+22	7,398151E+22
-476	3,116110E+22	3,116273E+22	5,829639E+21	5,828950E+21	6,232384E+22	1,165859E+22	7,398242E+22
-475	3,116297E+22	3,116220E+22	5,828702E+21	5,829381E+21	6,232517E+22	1,165808E+22	7,398325E+22
-474	3,116262E+22	3,116251E+22	5,828888E+21	5,828516E+21	6,232513E+22	1,165740E+22	7,398253E+22
-473	3,116242E+22	3,116399E+22	5,828841E+21	5,828757E+21	6,232641E+22	1,165760E+22	7,398401E+22
-472	3,116416E+22	3,116296E+22	5,828236E+21	5,828820E+21	6,232712E+22	1,165706E+22	7,398418E+22
-471	3,116319E+22	3,116367E+22	5,828828E+21	5,828122E+21	6,232687E+22	1,165695E+22	7,398382E+22
-470	3,116360E+22	3,116381E+22	5,828593E+21	5,828875E+21	6,232741E+22	1,165747E+22	7,398487E+22
-469	3,116391E+22	3,116258E+22	5,828604E+21	5,828824E+21	6,232650E+22	1,165743E+22	7,398392E+22
-468	3,116183E+22	3,116352E+22	5,829410E+21	5,828800E+21	6,232535E+22	1,165821E+22	7,398356E+22
-467	3,116252E+22	3,116224E+22	5,829002E+21	5,829786E+21	6,232477E+22	1,165879E+22	7,398356E+22
-466	3,116186E+22	3,116088E+22	5,829545E+21	5,829433E+21	6,232274E+22	1,165898E+22	7,398172E+22
-465	3,116026E+22	3,116152E+22	5,830193E+21	5,829810E+21	6,232178E+22	1,166000E+22	7,398178E+22
-464	3,116129E+22	3,115998E+22	5,829810E+21	5,830467E+21	6,232128E+22	1,166028E+22	7,398155E+22
-463	3,115974E+22	3,115988E+22	5,830570E+21	5,830002E+21	6,231962E+22	1,166057E+22	7,398019E+22
-462	3,115916E+22	3,116025E+22	5,830558E+21	5,830711E+21	6,231941E+22	1,166127E+22	7,398068E+22
-461	3,116016E+22	3,115894E+22	5,830244E+21	5,830703E+21	6,231910E+22	1,166095E+22	7,398005E+22
-460	3,115869E+22	3,116002E+22	5,830818E+21	5,830063E+21	6,231871E+22	1,166088E+22	7,397959E+22
-459	3,116005E+22	3,115988E+22	5,830114E+21	5,830586E+21	6,231992E+22	1,166070E+22	7,398062E+22
-458	3,116067E+22	3,115940E+22	5,829958E+21	5,829864E+21	6,232007E+22	1,165982E+22	7,397989E+22
-457	3,115947E+22	3,116132E+22	5,830232E+21	5,829617E+21	6,232078E+22	1,165985E+22	7,398063E+22
-456	3,116137E+22	3,116102E+22	5,829310E+21	5,830026E+21	6,232239E+22	1,165934E+22	7,398173E+22
-455	3,116123E+22	3,116116E+22	5,829528E+21	5,829143E+21	6,232239E+22	1,165867E+22	7,398106E+22
-454	3,116113E+22	3,116223E+22	5,829496E+21	5,829355E+21	6,232336E+22	1,165885E+22	7,398221E+22
-453	3,116292E+22	3,116137E+22	5,828905E+21	5,829412E+21	6,232429E+22	1,165832E+22	7,398260E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-452	3,116159E+22	3,116224E+22	5,829555E+21	5,828834E+21	6,232383E+22	1,165839E+22	7,398221E+22
-451	3,116187E+22	3,116229E+22	5,829283E+21	5,829660E+21	6,232415E+22	1,165894E+22	7,398310E+22
-450	3,116213E+22	3,116096E+22	5,829276E+21	5,829587E+21	6,232309E+22	1,165886E+22	7,398195E+22
-449	3,115992E+22	3,116164E+22	5,830212E+21	5,829594E+21	6,232156E+22	1,165981E+22	7,398136E+22
-448	3,116076E+22	3,116051E+22	5,829827E+21	5,830503E+21	6,232127E+22	1,166033E+22	7,398160E+22
-447	3,116021E+22	3,115913E+22	5,830400E+21	5,830194E+21	6,231933E+22	1,166059E+22	7,397993E+22
-446	3,115849E+22	3,115956E+22	5,831011E+21	5,830647E+21	6,231805E+22	1,166166E+22	7,397971E+22
-445	3,115943E+22	3,115828E+22	5,830583E+21	5,831327E+21	6,231771E+22	1,166191E+22	7,397962E+22
-444	3,115785E+22	3,115824E+22	5,831331E+21	5,830851E+21	6,231609E+22	1,166218E+22	7,397828E+22
-443	3,115763E+22	3,115845E+22	5,831215E+21	5,831419E+21	6,231609E+22	1,166263E+22	7,397872E+22
-442	3,115882E+22	3,115727E+22	5,830821E+21	5,831235E+21	6,231609E+22	1,166206E+22	7,397815E+22
-441	3,115723E+22	3,115844E+22	5,831466E+21	5,830621E+21	6,231566E+22	1,166209E+22	7,397775E+22
-440	3,115844E+22	3,115871E+22	5,830747E+21	5,831137E+21	6,231715E+22	1,166188E+22	7,397903E+22
-439	3,115906E+22	3,115825E+22	5,830587E+21	5,830517E+21	6,231730E+22	1,166110E+22	7,397841E+22
-438	3,115792E+22	3,115970E+22	5,830835E+21	5,830294E+21	6,231763E+22	1,166113E+22	7,397876E+22
-437	3,116007E+22	3,115947E+22	5,829909E+21	5,830642E+21	6,231954E+22	1,166055E+22	7,398009E+22
-436	3,116001E+22	3,115966E+22	5,830159E+21	5,829743E+21	6,231966E+22	1,165990E+22	7,397956E+22
-435	3,116001E+22	3,116067E+22	5,830103E+21	5,829950E+21	6,232067E+22	1,166005E+22	7,398073E+22
-434	3,116153E+22	3,116002E+22	5,829504E+21	5,830037E+21	6,232155E+22	1,165954E+22	7,398109E+22
-433	3,115969E+22	3,116076E+22	5,830300E+21	5,829629E+21	6,232045E+22	1,165993E+22	7,398038E+22
-432	3,115983E+22	3,116084E+22	5,830082E+21	5,830434E+21	6,232067E+22	1,166052E+22	7,398119E+22
-431	3,116032E+22	3,115920E+22	5,830112E+21	5,830389E+21	6,231952E+22	1,166050E+22	7,398002E+22
-430	3,115819E+22	3,115939E+22	5,831035E+21	5,830380E+21	6,231758E+22	1,166142E+22	7,397900E+22
-429	3,115915E+22	3,115852E+22	5,830638E+21	5,831289E+21	6,231767E+22	1,166193E+22	7,397959E+22
-428	3,115841E+22	3,115737E+22	5,831194E+21	5,831040E+21	6,231577E+22	1,166223E+22	7,397801E+22
-427	3,115673E+22	3,115785E+22	5,831715E+21	5,831488E+21	6,231458E+22	1,166320E+22	7,397778E+22
-426	3,115777E+22	3,115669E+22	5,831232E+21	5,832046E+21	6,231446E+22	1,166328E+22	7,397774E+22
-425	3,115611E+22	3,115656E+22	5,832066E+21	5,831541E+21	6,231267E+22	1,166361E+22	7,397628E+22
-424	3,115601E+22	3,115704E+22	5,831946E+21	5,831963E+21	6,231305E+22	1,166391E+22	7,397696E+22
-423	3,115735E+22	3,115584E+22	5,831543E+21	5,831832E+21	6,231318E+22	1,166337E+22	7,397656E+22
-422	3,115557E+22	3,115674E+22	5,832123E+21	5,831302E+21	6,231231E+22	1,166342E+22	7,397574E+22
-421	3,115682E+22	3,115721E+22	5,831357E+21	5,831847E+21	6,231403E+22	1,166320E+22	7,397723E+22
-420	3,115753E+22	3,115675E+22	5,831185E+21	5,831218E+21	6,231428E+22	1,166240E+22	7,397669E+22
-419	3,115683E+22	3,115808E+22	5,831356E+21	5,830896E+21	6,231491E+22	1,166225E+22	7,397716E+22
-418	3,115909E+22	3,115804E+22	5,830420E+21	5,831107E+21	6,231713E+22	1,166153E+22	7,397865E+22
-417	3,115870E+22	3,115833E+22	5,830805E+21	5,830317E+21	6,231702E+22	1,166112E+22	7,397815E+22
-416	3,115832E+22	3,115964E+22	5,830801E+21	5,830547E+21	6,231796E+22	1,166135E+22	7,397931E+22
-415	3,115968E+22	3,115879E+22	5,830257E+21	5,830791E+21	6,231847E+22	1,166105E+22	7,397952E+22
-414	3,115778E+22	3,115886E+22	5,831070E+21	5,830454E+21	6,231664E+22	1,166152E+22	7,397816E+22
-413	3,115808E+22	3,115885E+22	5,830866E+21	5,831220E+21	6,231694E+22	1,166209E+22	7,397902E+22
-412	3,115868E+22	3,115720E+22	5,830914E+21	5,831189E+21	6,231588E+22	1,166210E+22	7,397798E+22
-411	3,115679E+22	3,115733E+22	5,831746E+21	5,831178E+21	6,231412E+22	1,166292E+22	7,397704E+22
-410	3,115753E+22	3,115679E+22	5,831318E+21	5,832058E+21	6,231432E+22	1,166338E+22	7,397770E+22
-409	3,115648E+22	3,115576E+22	5,831968E+21	5,831898E+21	6,231224E+22	1,166387E+22	7,397610E+22
-408	3,115480E+22	3,115640E+22	5,832515E+21	5,832201E+21	6,231120E+22	1,166472E+22	7,397592E+22
-407	3,115608E+22	3,115512E+22	5,832051E+21	5,832722E+21	6,231119E+22	1,166477E+22	7,397597E+22
-406	3,115444E+22	3,115461E+22	5,832845E+21	5,832192E+21	6,230904E+22	1,166504E+22	7,397408E+22
-405	3,115434E+22	3,115534E+22	5,832679E+21	5,832611E+21	6,230968E+22	1,166529E+22	7,397497E+22
-404	3,115556E+22	3,115434E+22	5,832218E+21	5,832558E+21	6,230990E+22	1,166478E+22	7,397467E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-403	3,115407E+22	3,115512E+22	5,832652E+21	5,832025E+21	6,230920E+22	1,166468E+22	7,397387E+22
-402	3,115555E+22	3,115575E+22	5,831841E+21	5,832437E+21	6,231131E+22	1,166428E+22	7,397558E+22
-401	3,115629E+22	3,115536E+22	5,831754E+21	5,831797E+21	6,231165E+22	1,166355E+22	7,397520E+22
-400	3,115563E+22	3,115696E+22	5,831973E+21	5,831354E+21	6,231260E+22	1,166333E+22	7,397592E+22
-399	3,115783E+22	3,115693E+22	5,831101E+21	5,831670E+21	6,231476E+22	1,166277E+22	7,397753E+22
-398	3,115697E+22	3,115682E+22	5,831504E+21	5,831036E+21	6,231379E+22	1,166254E+22	7,397633E+22
-397	3,115645E+22	3,115810E+22	5,831530E+21	5,831333E+21	6,231456E+22	1,166286E+22	7,397742E+22
-396	3,115785E+22	3,115698E+22	5,831010E+21	5,831601E+21	6,231483E+22	1,166261E+22	7,397745E+22
-395	3,115634E+22	3,115672E+22	5,831734E+21	5,831210E+21	6,231306E+22	1,166294E+22	7,397601E+22
-394	3,115678E+22	3,115691E+22	5,831514E+21	5,831868E+21	6,231369E+22	1,166338E+22	7,397707E+22
-393	3,115706E+22	3,115548E+22	5,831664E+21	5,831944E+21	6,231254E+22	1,166361E+22	7,397615E+22
-392	3,115492E+22	3,115602E+22	5,832524E+21	5,831910E+21	6,231095E+22	1,166443E+22	7,397538E+22
-391	3,115564E+22	3,115542E+22	5,832157E+21	5,832864E+21	6,231106E+22	1,166502E+22	7,397608E+22
-390	3,115447E+22	3,115390E+22	5,832816E+21	5,832713E+21	6,230837E+22	1,166553E+22	7,397390E+22
-389	3,115298E+22	3,115456E+22	5,833348E+21	5,832929E+21	6,230754E+22	1,166628E+22	7,397382E+22
-388	3,115433E+22	3,115326E+22	5,832862E+21	5,833439E+21	6,230759E+22	1,166630E+22	7,397389E+22
-387	3,115292E+22	3,115269E+22	5,833493E+21	5,832931E+21	6,230561E+22	1,166642E+22	7,397203E+22
-386	3,115276E+22	3,115372E+22	5,833233E+21	5,833303E+21	6,230648E+22	1,166654E+22	7,397302E+22
-385	3,115389E+22	3,115287E+22	5,832814E+21	5,833311E+21	6,230676E+22	1,166613E+22	7,397288E+22
-384	3,115268E+22	3,115387E+22	5,833231E+21	5,832600E+21	6,230655E+22	1,166583E+22	7,397238E+22
-383	3,115445E+22	3,115450E+22	5,832468E+21	5,832957E+21	6,230894E+22	1,166542E+22	7,397437E+22
-382	3,115506E+22	3,115387E+22	5,832394E+21	5,832324E+21	6,230893E+22	1,166472E+22	7,397364E+22
-381	3,115422E+22	3,115565E+22	5,832641E+21	5,831914E+21	6,230986E+22	1,166455E+22	7,397442E+22
-380	3,115604E+22	3,115564E+22	5,831798E+21	5,832351E+21	6,231168E+22	1,166415E+22	7,397583E+22
-379	3,115535E+22	3,115514E+22	5,832105E+21	5,831798E+21	6,231049E+22	1,166390E+22	7,397439E+22
-378	3,115489E+22	3,115633E+22	5,832129E+21	5,832008E+21	6,231123E+22	1,166414E+22	7,397537E+22
-377	3,115629E+22	3,115522E+22	5,831708E+21	5,832325E+21	6,231151E+22	1,166403E+22	7,397554E+22
-376	3,115491E+22	3,115513E+22	5,832458E+21	5,831840E+21	6,231004E+22	1,166430E+22	7,397434E+22
-375	3,115527E+22	3,115542E+22	5,832314E+21	5,832604E+21	6,231068E+22	1,166492E+22	7,397560E+22
-374	3,115507E+22	3,115377E+22	5,832490E+21	5,832812E+21	6,230884E+22	1,166530E+22	7,397414E+22
-373	3,115285E+22	3,115432E+22	5,833390E+21	5,832788E+21	6,230717E+22	1,166618E+22	7,397335E+22
-372	3,115361E+22	3,115357E+22	5,833055E+21	5,833708E+21	6,230717E+22	1,166676E+22	7,397394E+22
-371	3,115283E+22	3,115176E+22	5,833575E+21	5,833499E+21	6,230459E+22	1,166707E+22	7,397166E+22
-370	3,115143E+22	3,115262E+22	5,834033E+21	5,833591E+21	6,230405E+22	1,166762E+22	7,397167E+22
-369	3,115255E+22	3,115159E+22	5,833559E+21	5,834183E+21	6,230415E+22	1,166774E+22	7,397189E+22
-368	3,115117E+22	3,115136E+22	5,834125E+21	5,833605E+21	6,230253E+22	1,166773E+22	7,397026E+22
-367	3,115127E+22	3,115241E+22	5,833882E+21	5,833983E+21	6,230368E+22	1,166787E+22	7,397155E+22
-366	3,115237E+22	3,115130E+22	5,833463E+21	5,833947E+21	6,230367E+22	1,166741E+22	7,397108E+22
-365	3,115143E+22	3,115246E+22	5,833885E+21	5,833141E+21	6,230389E+22	1,166703E+22	7,397092E+22
-364	3,115318E+22	3,115311E+22	5,833156E+21	5,833488E+21	6,230628E+22	1,166664E+22	7,397293E+22
-363	3,115373E+22	3,115236E+22	5,832962E+21	5,832947E+21	6,230610E+22	1,166591E+22	7,397201E+22
-362	3,115266E+22	3,115427E+22	5,833174E+21	5,832554E+21	6,230692E+22	1,166573E+22	7,397265E+22
-361	3,115424E+22	3,115417E+22	5,832425E+21	5,833091E+21	6,230842E+22	1,166552E+22	7,397393E+22
-360	3,115379E+22	3,115366E+22	5,832749E+21	5,832434E+21	6,230745E+22	1,166518E+22	7,397263E+22
-359	3,115362E+22	3,115472E+22	5,832847E+21	5,832643E+21	6,230834E+22	1,166549E+22	7,397383E+22
-358	3,115472E+22	3,115341E+22	5,832474E+21	5,833026E+21	6,230813E+22	1,166550E+22	7,397363E+22
-357	3,115319E+22	3,115356E+22	5,833248E+21	5,832604E+21	6,230676E+22	1,166585E+22	7,397261E+22
-356	3,115326E+22	3,115385E+22	5,833161E+21	5,833454E+21	6,230711E+22	1,166662E+22	7,397373E+22
-355	3,115322E+22	3,115189E+22	5,833248E+21	5,833709E+21	6,230510E+22	1,166696E+22	7,397206E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-354	3,115110E+22	3,115240E+22	5,834129E+21	5,833561E+21	6,230350E+22	1,166769E+22	7,397119E+22
-353	3,115181E+22	3,115170E+22	5,833856E+21	5,834479E+21	6,230350E+22	1,166834E+22	7,397184E+22
-352	3,115121E+22	3,115007E+22	5,834337E+21	5,834175E+21	6,230127E+22	1,166851E+22	7,396979E+22
-351	3,114980E+22	3,115103E+22	5,834786E+21	5,834326E+21	6,230083E+22	1,166911E+22	7,396994E+22
-350	3,115061E+22	3,114991E+22	5,834287E+21	5,834986E+21	6,230052E+22	1,166927E+22	7,396979E+22
-349	3,114947E+22	3,114975E+22	5,834824E+21	5,834334E+21	6,229922E+22	1,166916E+22	7,396838E+22
-348	3,114977E+22	3,115082E+22	5,834604E+21	5,834619E+21	6,230058E+22	1,166922E+22	7,396980E+22
-347	3,115124E+22	3,114962E+22	5,834045E+21	5,834517E+21	6,230086E+22	1,166856E+22	7,396943E+22
-346	3,115025E+22	3,115101E+22	5,834428E+21	5,833628E+21	6,230126E+22	1,166806E+22	7,396931E+22
-345	3,115157E+22	3,115193E+22	5,833757E+21	5,834087E+21	6,230350E+22	1,166784E+22	7,397134E+22
-344	3,115207E+22	3,115128E+22	5,833540E+21	5,833549E+21	6,230335E+22	1,166709E+22	7,397044E+22
-343	3,115113E+22	3,115293E+22	5,833811E+21	5,833219E+21	6,230406E+22	1,166703E+22	7,397109E+22
-342	3,115256E+22	3,115249E+22	5,833109E+21	5,833783E+21	6,230505E+22	1,166689E+22	7,397194E+22
-341	3,115238E+22	3,115196E+22	5,833464E+21	5,833099E+21	6,230433E+22	1,166656E+22	7,397090E+22
-340	3,115216E+22	3,115301E+22	5,833636E+21	5,833354E+21	6,230518E+22	1,166699E+22	7,397217E+22
-339	3,115317E+22	3,115163E+22	5,833165E+21	5,833852E+21	6,230481E+22	1,166702E+22	7,397182E+22
-338	3,115145E+22	3,115188E+22	5,833935E+21	5,833435E+21	6,230333E+22	1,166737E+22	7,397070E+22
-337	3,115130E+22	3,115215E+22	5,833951E+21	5,834315E+21	6,230345E+22	1,166827E+22	7,397171E+22
-336	3,115148E+22	3,115019E+22	5,834040E+21	5,834436E+21	6,230167E+22	1,166848E+22	7,397014E+22
-335	3,114960E+22	3,115062E+22	5,834955E+21	5,834264E+21	6,230021E+22	1,166922E+22	7,396943E+22
-334	3,114988E+22	3,114978E+22	5,834698E+21	5,835214E+21	6,229967E+22	1,166991E+22	7,396958E+22
-333	3,114926E+22	3,114840E+22	5,835140E+21	5,834948E+21	6,229766E+22	1,167009E+22	7,396775E+22
-332	3,114786E+22	3,114935E+22	5,835576E+21	5,835124E+21	6,229721E+22	1,167070E+22	7,396791E+22
-331	3,114896E+22	3,114806E+22	5,834935E+21	5,835762E+21	6,229702E+22	1,167070E+22	7,396772E+22
-330	3,114815E+22	3,114810E+22	5,835398E+21	5,834951E+21	6,229624E+22	1,167035E+22	7,396659E+22
-329	3,114845E+22	3,114936E+22	5,835227E+21	5,835190E+21	6,229781E+22	1,167042E+22	7,396823E+22
-328	3,114999E+22	3,114845E+22	5,834636E+21	5,835012E+21	6,229844E+22	1,166965E+22	7,396808E+22
-327	3,114888E+22	3,114988E+22	5,835028E+21	5,834227E+21	6,229876E+22	1,166926E+22	7,396802E+22
-326	3,114965E+22	3,115055E+22	5,834398E+21	5,834780E+21	6,230019E+22	1,166918E+22	7,396937E+22
-325	3,115039E+22	3,114977E+22	5,834202E+21	5,834242E+21	6,230016E+22	1,166844E+22	7,396860E+22
-324	3,114968E+22	3,115120E+22	5,834522E+21	5,833884E+21	6,230088E+22	1,166841E+22	7,396929E+22
-323	3,115138E+22	3,115058E+22	5,833730E+21	5,834453E+21	6,230196E+22	1,166818E+22	7,397014E+22
-322	3,115115E+22	3,115027E+22	5,834060E+21	5,833745E+21	6,230142E+22	1,166780E+22	7,396923E+22
-321	3,115049E+22	3,115160E+22	5,834320E+21	5,834107E+21	6,230209E+22	1,166843E+22	7,397052E+22
-320	3,115144E+22	3,115031E+22	5,833874E+21	5,834590E+21	6,230176E+22	1,166846E+22	7,397022E+22
-319	3,114977E+22	3,115034E+22	5,834734E+21	5,834207E+21	6,230011E+22	1,166894E+22	7,396905E+22
-318	3,114929E+22	3,115033E+22	5,834829E+21	5,835079E+21	6,229962E+22	1,166991E+22	7,396953E+22
-317	3,114969E+22	3,114829E+22	5,834934E+21	5,835182E+21	6,229798E+22	1,167012E+22	7,396809E+22
-316	3,114772E+22	3,114865E+22	5,835862E+21	5,835062E+21	6,229637E+22	1,167092E+22	7,396729E+22
-315	3,114797E+22	3,114778E+22	5,835433E+21	5,836102E+21	6,229575E+22	1,167154E+22	7,396729E+22
-314	3,114742E+22	3,114651E+22	5,835793E+21	5,835788E+21	6,229393E+22	1,167158E+22	7,396551E+22
-313	3,114612E+22	3,114763E+22	5,836258E+21	5,835910E+21	6,229375E+22	1,167217E+22	7,396592E+22
-312	3,114764E+22	3,114656E+22	5,835578E+21	5,836350E+21	6,229420E+22	1,167193E+22	7,396613E+22
-311	3,114705E+22	3,114672E+22	5,836040E+21	5,835484E+21	6,229377E+22	1,167152E+22	7,396530E+22
-310	3,114683E+22	3,114802E+22	5,835899E+21	5,835742E+21	6,229485E+22	1,167164E+22	7,396649E+22
-309	3,114827E+22	3,114726E+22	5,835289E+21	5,835620E+21	6,229553E+22	1,167091E+22	7,396644E+22
-308	3,114715E+22	3,114848E+22	5,835707E+21	5,834908E+21	6,229563E+22	1,167061E+22	7,396624E+22
-307	3,114812E+22	3,114881E+22	5,834970E+21	5,835477E+21	6,229693E+22	1,167045E+22	7,396738E+22
-306	3,114918E+22	3,114805E+22	5,834744E+21	5,834862E+21	6,229722E+22	1,166961E+22	7,396683E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-305	3,114851E+22	3,114960E+22	5,835130E+21	5,834511E+21	6,229810E+22	1,166964E+22	7,396774E+22
-304	3,115018E+22	3,114924E+22	5,834355E+21	5,835051E+21	6,229942E+22	1,166941E+22	7,396883E+22
-303	3,114977E+22	3,114903E+22	5,834723E+21	5,834459E+21	6,229880E+22	1,166918E+22	7,396799E+22
-302	3,114846E+22	3,115009E+22	5,835100E+21	5,834882E+21	6,229855E+22	1,166998E+22	7,396853E+22
-301	3,114950E+22	3,114868E+22	5,834733E+21	5,835360E+21	6,229818E+22	1,167009E+22	7,396827E+22
-300	3,114798E+22	3,114840E+22	5,835651E+21	5,834983E+21	6,229638E+22	1,167063E+22	7,396701E+22
-299	3,114750E+22	3,114814E+22	5,835641E+21	5,835875E+21	6,229564E+22	1,167152E+22	7,396715E+22
-298	3,114789E+22	3,114629E+22	5,835676E+21	5,835992E+21	6,229418E+22	1,167167E+22	7,396584E+22
-297	3,114574E+22	3,114684E+22	5,836588E+21	5,835936E+21	6,229258E+22	1,167252E+22	7,396510E+22
-296	3,114620E+22	3,114614E+22	5,836120E+21	5,836886E+21	6,229234E+22	1,167301E+22	7,396535E+22
-295	3,114598E+22	3,114494E+22	5,836470E+21	5,836509E+21	6,229093E+22	1,167298E+22	7,396391E+22
-294	3,114449E+22	3,114602E+22	5,836988E+21	5,836541E+21	6,229051E+22	1,167353E+22	7,396404E+22
-293	3,114622E+22	3,114514E+22	5,836332E+21	5,836917E+21	6,229136E+22	1,167325E+22	7,396461E+22
-292	3,114552E+22	3,114531E+22	5,836791E+21	5,836113E+21	6,229083E+22	1,167290E+22	7,396373E+22
-291	3,114509E+22	3,114647E+22	5,836504E+21	5,836451E+21	6,229156E+22	1,167296E+22	7,396452E+22
-290	3,114663E+22	3,114565E+22	5,835835E+21	5,836314E+21	6,229229E+22	1,167215E+22	7,396444E+22
-289	3,114567E+22	3,114684E+22	5,836276E+21	5,835581E+21	6,229250E+22	1,167186E+22	7,396436E+22
-288	3,114705E+22	3,114730E+22	5,835530E+21	5,836013E+21	6,229435E+22	1,167154E+22	7,396590E+22
-287	3,114823E+22	3,114667E+22	5,835329E+21	5,835395E+21	6,229490E+22	1,167072E+22	7,396562E+22
-286	3,114693E+22	3,114830E+22	5,835807E+21	5,835121E+21	6,229524E+22	1,167093E+22	7,396616E+22
-285	3,114843E+22	3,114804E+22	5,835099E+21	5,835729E+21	6,229647E+22	1,167083E+22	7,396730E+22
-284	3,114787E+22	3,114753E+22	5,835551E+21	5,835245E+21	6,229540E+22	1,167080E+22	7,396620E+22
-283	3,114657E+22	3,114819E+22	5,835864E+21	5,835690E+21	6,229477E+22	1,167155E+22	7,396632E+22
-282	3,114782E+22	3,114664E+22	5,835488E+21	5,836134E+21	6,229446E+22	1,167162E+22	7,396608E+22
-281	3,114627E+22	3,114638E+22	5,836442E+21	5,835797E+21	6,229266E+22	1,167224E+22	7,396490E+22
-280	3,114583E+22	3,114632E+22	5,836383E+21	5,836664E+21	6,229215E+22	1,167305E+22	7,396520E+22
-279	3,114616E+22	3,114461E+22	5,836389E+21	5,836842E+21	6,229077E+22	1,167323E+22	7,396400E+22
-278	3,114369E+22	3,114507E+22	5,837355E+21	5,836770E+21	6,228876E+22	1,167413E+22	7,396289E+22
-277	3,114449E+22	3,114447E+22	5,836937E+21	5,837603E+21	6,228897E+22	1,167454E+22	7,396351E+22
-276	3,114451E+22	3,114328E+22	5,837304E+21	5,837172E+21	6,228779E+22	1,167448E+22	7,396227E+22
-275	3,114297E+22	3,114429E+22	5,837696E+21	5,837173E+21	6,228727E+22	1,167487E+22	7,396213E+22
-274	3,114461E+22	3,114363E+22	5,836970E+21	5,837554E+21	6,228825E+22	1,167452E+22	7,396277E+22
-273	3,114374E+22	3,114389E+22	5,837398E+21	5,836821E+21	6,228763E+22	1,167422E+22	7,396185E+22
-272	3,114353E+22	3,114504E+22	5,837062E+21	5,837078E+21	6,228857E+22	1,167414E+22	7,396271E+22
-271	3,114541E+22	3,114427E+22	5,836375E+21	5,836909E+21	6,228967E+22	1,167328E+22	7,396296E+22
-270	3,114433E+22	3,114531E+22	5,836879E+21	5,836133E+21	6,228964E+22	1,167301E+22	7,396265E+22
-269	3,114583E+22	3,114596E+22	5,836217E+21	5,836548E+21	6,229179E+22	1,167276E+22	7,396456E+22
-268	3,114682E+22	3,114539E+22	5,836044E+21	5,836061E+21	6,229222E+22	1,167211E+22	7,396432E+22
-267	3,114516E+22	3,114676E+22	5,836455E+21	5,835888E+21	6,229191E+22	1,167234E+22	7,396425E+22
-266	3,114666E+22	3,114635E+22	5,835779E+21	5,836505E+21	6,229301E+22	1,167228E+22	7,396529E+22
-265	3,114617E+22	3,114568E+22	5,836287E+21	5,836035E+21	6,229185E+22	1,167232E+22	7,396418E+22
-264	3,114510E+22	3,114632E+22	5,836597E+21	5,836382E+21	6,229142E+22	1,167298E+22	7,396440E+22
-263	3,114636E+22	3,114489E+22	5,836221E+21	5,836851E+21	6,229125E+22	1,167307E+22	7,396432E+22
-262	3,114427E+22	3,114463E+22	5,837225E+21	5,836590E+21	6,228890E+22	1,167382E+22	7,396272E+22
-261	3,114384E+22	3,114470E+22	5,837223E+21	5,837471E+21	6,228854E+22	1,167469E+22	7,396323E+22
-260	3,114425E+22	3,114290E+22	5,837259E+21	5,837688E+21	6,228715E+22	1,167495E+22	7,396210E+22
-259	3,114191E+22	3,114315E+22	5,838129E+21	5,837563E+21	6,228506E+22	1,167569E+22	7,396075E+22
-258	3,114299E+22	3,114262E+22	5,837698E+21	5,838302E+21	6,228560E+22	1,167600E+22	7,396160E+22
-257	3,114294E+22	3,114162E+22	5,838048E+21	5,837879E+21	6,228455E+22	1,167593E+22	7,396048E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-256	3,114140E+22	3,114284E+22	5,838341E+21	5,837842E+21	6,228425E+22	1,167618E+22	7,396043E+22
-255	3,114295E+22	3,114225E+22	5,837555E+21	5,838242E+21	6,228520E+22	1,167580E+22	7,396100E+22
-254	3,114186E+22	3,114234E+22	5,838024E+21	5,837501E+21	6,228420E+22	1,167552E+22	7,395972E+22
-253	3,114211E+22	3,114351E+22	5,837731E+21	5,837650E+21	6,228563E+22	1,167538E+22	7,396101E+22
-252	3,114419E+22	3,114276E+22	5,837063E+21	5,837482E+21	6,228695E+22	1,167454E+22	7,396150E+22
-251	3,114304E+22	3,114377E+22	5,837462E+21	5,836732E+21	6,228681E+22	1,167419E+22	7,396100E+22
-250	3,114443E+22	3,114456E+22	5,836805E+21	5,837186E+21	6,228899E+22	1,167399E+22	7,396298E+22
-249	3,114516E+22	3,114404E+22	5,836665E+21	5,836789E+21	6,228920E+22	1,167345E+22	7,396266E+22
-248	3,114363E+22	3,114527E+22	5,837085E+21	5,836570E+21	6,228890E+22	1,167365E+22	7,396255E+22
-247	3,114520E+22	3,114480E+22	5,836445E+21	5,837163E+21	6,228999E+22	1,167361E+22	7,396360E+22
-246	3,114446E+22	3,114392E+22	5,837065E+21	5,836731E+21	6,228838E+22	1,167380E+22	7,396217E+22
-245	3,114344E+22	3,114461E+22	5,837458E+21	5,837092E+21	6,228805E+22	1,167455E+22	7,396260E+22
-244	3,114448E+22	3,114323E+22	5,837093E+21	5,837715E+21	6,228771E+22	1,167481E+22	7,396251E+22
-243	3,114220E+22	3,114268E+22	5,837988E+21	5,837515E+21	6,228488E+22	1,167550E+22	7,396038E+22
-242	3,114199E+22	3,114269E+22	5,838008E+21	5,838344E+21	6,228468E+22	1,167635E+22	7,396103E+22
-241	3,114258E+22	3,114100E+22	5,838054E+21	5,838499E+21	6,228358E+22	1,167655E+22	7,396013E+22
-240	3,114050E+22	3,114137E+22	5,838874E+21	5,838238E+21	6,228187E+22	1,167711E+22	7,395899E+22
-239	3,114150E+22	3,114114E+22	5,838404E+21	5,838941E+21	6,228264E+22	1,167734E+22	7,395999E+22
-238	3,114094E+22	3,114016E+22	5,838757E+21	5,838574E+21	6,228110E+22	1,167733E+22	7,395844E+22
-237	3,113946E+22	3,114142E+22	5,839064E+21	5,838514E+21	6,228088E+22	1,167758E+22	7,395846E+22
-236	3,114122E+22	3,114076E+22	5,838256E+21	5,838941E+21	6,228198E+22	1,167720E+22	7,395918E+22
-235	3,114038E+22	3,114054E+22	5,838601E+21	5,838148E+21	6,228092E+22	1,167675E+22	7,395767E+22
-234	3,114102E+22	3,114180E+22	5,838325E+21	5,838231E+21	6,228282E+22	1,167656E+22	7,395938E+22
-233	3,114302E+22	3,114134E+22	5,837660E+21	5,838094E+21	6,228436E+22	1,167575E+22	7,396011E+22
-232	3,114179E+22	3,114252E+22	5,838001E+21	5,837358E+21	6,228430E+22	1,167536E+22	7,395966E+22
-231	3,114295E+22	3,114337E+22	5,837366E+21	5,837823E+21	6,228632E+22	1,167519E+22	7,396151E+22
-230	3,114336E+22	3,114257E+22	5,837346E+21	5,837463E+21	6,228593E+22	1,167481E+22	7,396074E+22
-229	3,114205E+22	3,114370E+22	5,837882E+21	5,837193E+21	6,228574E+22	1,167508E+22	7,396082E+22
-228	3,114360E+22	3,114315E+22	5,837295E+21	5,837861E+21	6,228675E+22	1,167516E+22	7,396190E+22
-227	3,114264E+22	3,114203E+22	5,837831E+21	5,837528E+21	6,228466E+22	1,167536E+22	7,396002E+22
-226	3,114159E+22	3,114271E+22	5,838232E+21	5,837958E+21	6,228430E+22	1,167619E+22	7,396049E+22
-225	3,114248E+22	3,114140E+22	5,837875E+21	5,838633E+21	6,228389E+22	1,167651E+22	7,396040E+22
-224	3,114056E+22	3,114084E+22	5,838715E+21	5,838354E+21	6,228140E+22	1,167707E+22	7,395846E+22
-223	3,114049E+22	3,114095E+22	5,838740E+21	5,839062E+21	6,228144E+22	1,167780E+22	7,395924E+22
-222	3,114082E+22	3,113929E+22	5,838875E+21	5,839205E+21	6,228011E+22	1,167808E+22	7,395819E+22
-221	3,113879E+22	3,113984E+22	5,839721E+21	5,838915E+21	6,227863E+22	1,167864E+22	7,395726E+22
-220	3,113951E+22	3,113967E+22	5,839215E+21	5,839714E+21	6,227917E+22	1,167893E+22	7,395810E+22
-219	3,113887E+22	3,113835E+22	5,839429E+21	5,839379E+21	6,227722E+22	1,167881E+22	7,395603E+22
-218	3,113786E+22	3,113946E+22	5,839713E+21	5,839235E+21	6,227732E+22	1,167895E+22	7,395627E+22
-217	3,113989E+22	3,113901E+22	5,838879E+21	5,839579E+21	6,227889E+22	1,167846E+22	7,395735E+22
-216	3,113945E+22	3,113901E+22	5,839127E+21	5,838687E+21	6,227846E+22	1,167781E+22	7,395627E+22
-215	3,113995E+22	3,114063E+22	5,838837E+21	5,838735E+21	6,228058E+22	1,167757E+22	7,395816E+22
-214	3,114139E+22	3,114028E+22	5,838256E+21	5,838681E+21	6,228167E+22	1,167694E+22	7,395861E+22
-213	3,114015E+22	3,114140E+22	5,838691E+21	5,837954E+21	6,228155E+22	1,167665E+22	7,395819E+22
-212	3,114126E+22	3,114207E+22	5,838119E+21	5,838482E+21	6,228333E+22	1,167660E+22	7,395993E+22
-211	3,114167E+22	3,114078E+22	5,838049E+21	5,838169E+21	6,228245E+22	1,167622E+22	7,395867E+22
-210	3,114060E+22	3,114172E+22	5,838637E+21	5,837929E+21	6,228231E+22	1,167657E+22	7,395888E+22
-209	3,114194E+22	3,114136E+22	5,838051E+21	5,838687E+21	6,228330E+22	1,167674E+22	7,396004E+22
-208	3,114098E+22	3,114024E+22	5,838498E+21	5,838396E+21	6,228122E+22	1,167689E+22	7,395811E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-207	3,113988E+22	3,114099E+22	5,838908E+21	5,838784E+21	6,228087E+22	1,167769E+22	7,395856E+22
-206	3,114062E+22	3,113959E+22	5,838667E+21	5,839430E+21	6,228021E+22	1,167810E+22	7,395830E+22
-205	3,113892E+22	3,113910E+22	5,839596E+21	5,839043E+21	6,227803E+22	1,167864E+22	7,395667E+22
-204	3,113878E+22	3,113937E+22	5,839647E+21	5,839771E+21	6,227815E+22	1,167942E+22	7,395756E+22
-203	3,113881E+22	3,113750E+22	5,839674E+21	5,839980E+21	6,227630E+22	1,167965E+22	7,395596E+22
-202	3,113682E+22	3,113799E+22	5,840488E+21	5,839726E+21	6,227481E+22	1,168021E+22	7,395503E+22
-201	3,113752E+22	3,113789E+22	5,839932E+21	5,840510E+21	6,227541E+22	1,168044E+22	7,395585E+22
-200	3,113739E+22	3,113654E+22	5,840017E+21	5,840087E+21	6,227393E+22	1,168010E+22	7,395403E+22
-199	3,113672E+22	3,113786E+22	5,840258E+21	5,839799E+21	6,227458E+22	1,168006E+22	7,395463E+22
-198	3,113860E+22	3,113760E+22	5,839510E+21	5,840129E+21	6,227620E+22	1,167964E+22	7,395583E+22
-197	3,113818E+22	3,113792E+22	5,839791E+21	5,839229E+21	6,227610E+22	1,167902E+22	7,395512E+22
-196	3,113835E+22	3,113964E+22	5,839511E+21	5,839379E+21	6,227798E+22	1,167889E+22	7,395687E+22
-195	3,113953E+22	3,113883E+22	5,838886E+21	5,839385E+21	6,227836E+22	1,167827E+22	7,395663E+22
-194	3,113864E+22	3,113960E+22	5,839375E+21	5,838656E+21	6,227824E+22	1,167803E+22	7,395627E+22
-193	3,113973E+22	3,114030E+22	5,838831E+21	5,839156E+21	6,228003E+22	1,167799E+22	7,395802E+22
-192	3,114041E+22	3,113901E+22	5,838682E+21	5,838867E+21	6,227942E+22	1,167755E+22	7,395697E+22
-191	3,113919E+22	3,114009E+22	5,839245E+21	5,838626E+21	6,227928E+22	1,167787E+22	7,395715E+22
-190	3,114004E+22	3,113979E+22	5,838767E+21	5,839471E+21	6,227982E+22	1,167824E+22	7,395806E+22
-189	3,113922E+22	3,113871E+22	5,839283E+21	5,839152E+21	6,227793E+22	1,167843E+22	7,395637E+22
-188	3,113811E+22	3,113941E+22	5,839756E+21	5,839548E+21	6,227752E+22	1,167930E+22	7,395682E+22
-187	3,113877E+22	3,113769E+22	5,839510E+21	5,840197E+21	6,227646E+22	1,167971E+22	7,395617E+22
-186	3,113730E+22	3,113709E+22	5,840484E+21	5,839832E+21	6,227439E+22	1,168032E+22	7,395471E+22
-185	3,113678E+22	3,113760E+22	5,840496E+21	5,840596E+21	6,227438E+22	1,168109E+22	7,395547E+22
-184	3,113690E+22	3,113568E+22	5,840367E+21	5,840847E+21	6,227258E+22	1,168121E+22	7,395380E+22
-183	3,113505E+22	3,113614E+22	5,841107E+21	5,840489E+21	6,227120E+22	1,168160E+22	7,395279E+22
-182	3,113581E+22	3,113611E+22	5,840616E+21	5,841199E+21	6,227191E+22	1,168181E+22	7,395373E+22
-181	3,113612E+22	3,113502E+22	5,840713E+21	5,840640E+21	6,227115E+22	1,168135E+22	7,395250E+22
-180	3,113546E+22	3,113664E+22	5,840951E+21	5,840367E+21	6,227210E+22	1,168132E+22	7,395342E+22
-179	3,113699E+22	3,113629E+22	5,840140E+21	5,840754E+21	6,227328E+22	1,168089E+22	7,395418E+22
-178	3,113662E+22	3,113652E+22	5,840429E+21	5,839910E+21	6,227314E+22	1,168034E+22	7,395348E+22
-177	3,113665E+22	3,113824E+22	5,840151E+21	5,840043E+21	6,227489E+22	1,168019E+22	7,395508E+22
-176	3,113817E+22	3,113718E+22	5,839442E+21	5,840031E+21	6,227535E+22	1,167947E+22	7,395483E+22
-175	3,113746E+22	3,113792E+22	5,839934E+21	5,839234E+21	6,227538E+22	1,167917E+22	7,395454E+22
-174	3,113829E+22	3,113869E+22	5,839507E+21	5,839790E+21	6,227698E+22	1,167930E+22	7,395628E+22
-173	3,113887E+22	3,113760E+22	5,839404E+21	5,839550E+21	6,227647E+22	1,167895E+22	7,395543E+22
-172	3,113741E+22	3,113873E+22	5,839989E+21	5,839421E+21	6,227614E+22	1,167941E+22	7,395555E+22
-171	3,113806E+22	3,113796E+22	5,839536E+21	5,840294E+21	6,227602E+22	1,167983E+22	7,395585E+22
-170	3,113760E+22	3,113668E+22	5,840128E+21	5,839958E+21	6,227428E+22	1,168009E+22	7,395436E+22
-169	3,113637E+22	3,113754E+22	5,840634E+21	5,840298E+21	6,227391E+22	1,168093E+22	7,395484E+22
-168	3,113712E+22	3,113582E+22	5,840297E+21	5,840988E+21	6,227294E+22	1,168129E+22	7,395422E+22
-167	3,113546E+22	3,113535E+22	5,841211E+21	5,840621E+21	6,227081E+22	1,168183E+22	7,395264E+22
-166	3,113457E+22	3,113587E+22	5,841272E+21	5,841423E+21	6,227044E+22	1,168270E+22	7,395314E+22
-165	3,113501E+22	3,113402E+22	5,841140E+21	5,841602E+21	6,226902E+22	1,168274E+22	7,395176E+22
-164	3,113344E+22	3,113453E+22	5,841839E+21	5,841201E+21	6,226797E+22	1,168304E+22	7,395101E+22
-163	3,113427E+22	3,113430E+22	5,841323E+21	5,841862E+21	6,226858E+22	1,168319E+22	7,395176E+22
-162	3,113492E+22	3,113337E+22	5,841420E+21	5,841302E+21	6,226829E+22	1,168272E+22	7,395101E+22
-161	3,113390E+22	3,113533E+22	5,841615E+21	5,841022E+21	6,226923E+22	1,168264E+22	7,395187E+22
-160	3,113549E+22	3,113493E+22	5,840685E+21	5,841442E+21	6,227041E+22	1,168213E+22	7,395254E+22
-159	3,113522E+22	3,113500E+22	5,840936E+21	5,840508E+21	6,227023E+22	1,168144E+22	7,395167E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-158	3,113510E+22	3,113668E+22	5,840774E+21	5,840605E+21	6,227178E+22	1,168138E+22	7,395316E+22
-157	3,113690E+22	3,113578E+22	5,840107E+21	5,840548E+21	6,227268E+22	1,168066E+22	7,395334E+22
-156	3,113609E+22	3,113660E+22	5,840611E+21	5,839848E+21	6,227269E+22	1,168046E+22	7,395315E+22
-155	3,113649E+22	3,113714E+22	5,840202E+21	5,840513E+21	6,227363E+22	1,168072E+22	7,395435E+22
-154	3,113719E+22	3,113592E+22	5,840143E+21	5,840357E+21	6,227311E+22	1,168050E+22	7,395361E+22
-153	3,113558E+22	3,113706E+22	5,840759E+21	5,840206E+21	6,227264E+22	1,168097E+22	7,395361E+22
-152	3,113651E+22	3,113611E+22	5,840259E+21	5,841076E+21	6,227263E+22	1,168134E+22	7,395396E+22
-151	3,113613E+22	3,113481E+22	5,840862E+21	5,840683E+21	6,227095E+22	1,168155E+22	7,395249E+22
-150	3,113452E+22	3,113580E+22	5,841478E+21	5,841078E+21	6,227031E+22	1,168256E+22	7,395287E+22
-149	3,113514E+22	3,113426E+22	5,841139E+21	5,841798E+21	6,226940E+22	1,168294E+22	7,395234E+22
-148	3,113338E+22	3,113372E+22	5,842014E+21	5,841500E+21	6,226710E+22	1,168351E+22	7,395061E+22
-147	3,113249E+22	3,113379E+22	5,842059E+21	5,842260E+21	6,226628E+22	1,168432E+22	7,395060E+22
-146	3,113348E+22	3,113192E+22	5,841928E+21	5,842362E+21	6,226540E+22	1,168429E+22	7,394969E+22
-145	3,113202E+22	3,113281E+22	5,842579E+21	5,841859E+21	6,226483E+22	1,168444E+22	7,394927E+22
-144	3,113301E+22	3,113272E+22	5,841946E+21	5,842515E+21	6,226573E+22	1,168446E+22	7,395019E+22
-143	3,113348E+22	3,113206E+22	5,841965E+21	5,841907E+21	6,226554E+22	1,168387E+22	7,394941E+22
-142	3,113216E+22	3,113407E+22	5,842223E+21	5,841632E+21	6,226624E+22	1,168385E+22	7,395009E+22
-141	3,113390E+22	3,113369E+22	5,841320E+21	5,841979E+21	6,226758E+22	1,168330E+22	7,395088E+22
-140	3,113379E+22	3,113370E+22	5,841572E+21	5,841077E+21	6,226749E+22	1,168265E+22	7,395014E+22
-139	3,113359E+22	3,113498E+22	5,841452E+21	5,841202E+21	6,226856E+22	1,168265E+22	7,395122E+22
-138	3,113555E+22	3,113412E+22	5,840822E+21	5,841245E+21	6,226967E+22	1,168207E+22	7,395174E+22
-137	3,113441E+22	3,113515E+22	5,841289E+21	5,840611E+21	6,226956E+22	1,168190E+22	7,395146E+22
-136	3,113488E+22	3,113546E+22	5,840820E+21	5,841336E+21	6,227034E+22	1,168216E+22	7,395249E+22
-135	3,113570E+22	3,113415E+22	5,840766E+21	5,841096E+21	6,226986E+22	1,168186E+22	7,395172E+22
-134	3,113397E+22	3,113530E+22	5,841525E+21	5,840909E+21	6,226927E+22	1,168243E+22	7,395171E+22
-133	3,113496E+22	3,113456E+22	5,841100E+21	5,841736E+21	6,226951E+22	1,168284E+22	7,395235E+22
-132	3,113435E+22	3,113334E+22	5,841705E+21	5,841462E+21	6,226769E+22	1,168317E+22	7,395086E+22
-131	3,113225E+22	3,113396E+22	5,842331E+21	5,841940E+21	6,226621E+22	1,168427E+22	7,395048E+22
-130	3,113311E+22	3,113227E+22	5,841997E+21	5,842703E+21	6,226539E+22	1,168470E+22	7,395009E+22
-129	3,113142E+22	3,113175E+22	5,842819E+21	5,842322E+21	6,226316E+22	1,168514E+22	7,394830E+22
-128	3,113100E+22	3,113174E+22	5,842763E+21	5,843024E+21	6,226275E+22	1,168579E+22	7,394853E+22
-127	3,113225E+22	3,113011E+22	5,842571E+21	5,843004E+21	6,226237E+22	1,168558E+22	7,394794E+22
-126	3,113048E+22	3,113136E+22	5,843273E+21	5,842507E+21	6,226184E+22	1,168578E+22	7,394762E+22
-125	3,113136E+22	3,113164E+22	5,842624E+21	5,843137E+21	6,226301E+22	1,168576E+22	7,394877E+22
-124	3,113176E+22	3,113091E+22	5,842603E+21	5,842567E+21	6,226267E+22	1,168517E+22	7,394784E+22
-123	3,113034E+22	3,113242E+22	5,842892E+21	5,842259E+21	6,226276E+22	1,168515E+22	7,394791E+22
-122	3,113250E+22	3,113196E+22	5,842012E+21	5,842581E+21	6,226446E+22	1,168459E+22	7,394905E+22
-121	3,113238E+22	3,113214E+22	5,842234E+21	5,841677E+21	6,226452E+22	1,168391E+22	7,394843E+22
-120	3,113229E+22	3,113337E+22	5,842026E+21	5,841893E+21	6,226566E+22	1,168392E+22	7,394958E+22
-119	3,113413E+22	3,113265E+22	5,841351E+21	5,841938E+21	6,226678E+22	1,168329E+22	7,395007E+22
-118	3,113277E+22	3,113372E+22	5,841912E+21	5,841331E+21	6,226649E+22	1,168324E+22	7,394973E+22
-117	3,113338E+22	3,113408E+22	5,841520E+21	5,841975E+21	6,226747E+22	1,168349E+22	7,395096E+22
-116	3,113424E+22	3,113274E+22	5,841519E+21	5,841773E+21	6,226697E+22	1,168329E+22	7,395027E+22
-115	3,113222E+22	3,113347E+22	5,842388E+21	5,841638E+21	6,226568E+22	1,168403E+22	7,394971E+22
-114	3,113312E+22	3,113274E+22	5,842014E+21	5,842562E+21	6,226586E+22	1,168458E+22	7,395044E+22
-113	3,113217E+22	3,113160E+22	5,842574E+21	5,842371E+21	6,226377E+22	1,168494E+22	7,394871E+22
-112	3,113028E+22	3,113179E+22	5,843093E+21	5,842876E+21	6,226207E+22	1,168597E+22	7,394804E+22
-111	3,113138E+22	3,113011E+22	5,842707E+21	5,843504E+21	6,226149E+22	1,168621E+22	7,394770E+22
-110	3,112982E+22	3,112983E+22	5,843561E+21	5,843044E+21	6,225965E+22	1,168661E+22	7,394626E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-109	3,112958E+22	3,113022E+22	5,843523E+21	5,843644E+21	6,225980E+22	1,168717E+22	7,394697E+22
-108	3,113065E+22	3,112895E+22	5,843294E+21	5,843676E+21	6,225960E+22	1,168697E+22	7,394657E+22
-107	3,112849E+22	3,112992E+22	5,844007E+21	5,843213E+21	6,225841E+22	1,168722E+22	7,394563E+22
-106	3,112955E+22	3,113011E+22	5,843366E+21	5,843830E+21	6,225966E+22	1,168720E+22	7,394686E+22
-105	3,113000E+22	3,112938E+22	5,843282E+21	5,843216E+21	6,225939E+22	1,168650E+22	7,394588E+22
-104	3,112903E+22	3,113056E+22	5,843467E+21	5,842907E+21	6,225959E+22	1,168637E+22	7,394596E+22
-103	3,113137E+22	3,113028E+22	5,842546E+21	5,843172E+21	6,226164E+22	1,168572E+22	7,394736E+22
-102	3,113103E+22	3,113074E+22	5,842800E+21	5,842333E+21	6,226177E+22	1,168513E+22	7,394691E+22
-101	3,113088E+22	3,113221E+22	5,842621E+21	5,842543E+21	6,226308E+22	1,168516E+22	7,394825E+22
-100	3,113265E+22	3,113145E+22	5,841974E+21	5,842618E+21	6,226411E+22	1,168459E+22	7,394870E+22
-99	3,113112E+22	3,113203E+22	5,842652E+21	5,841997E+21	6,226315E+22	1,168465E+22	7,394780E+22
-98	3,113193E+22	3,113239E+22	5,842359E+21	5,842630E+21	6,226431E+22	1,168499E+22	7,394930E+22
-97	3,113250E+22	3,113112E+22	5,842374E+21	5,842489E+21	6,226361E+22	1,168486E+22	7,394847E+22
-96	3,113037E+22	3,113159E+22	5,843172E+21	5,842494E+21	6,226196E+22	1,168567E+22	7,394762E+22
-95	3,113114E+22	3,113085E+22	5,842740E+21	5,843418E+21	6,226199E+22	1,168616E+22	7,394815E+22
-94	3,113011E+22	3,112965E+22	5,843337E+21	5,843242E+21	6,225976E+22	1,168658E+22	7,394633E+22
-93	3,112855E+22	3,112998E+22	5,843862E+21	5,843631E+21	6,225853E+22	1,168749E+22	7,394602E+22
-92	3,112987E+22	3,112844E+22	5,843473E+21	5,844230E+21	6,225831E+22	1,168770E+22	7,394601E+22
-91	3,112814E+22	3,112802E+22	5,844387E+21	5,843776E+21	6,225616E+22	1,168816E+22	7,394432E+22
-90	3,112787E+22	3,112869E+22	5,844358E+21	5,844399E+21	6,225656E+22	1,168876E+22	7,394531E+22
-89	3,112863E+22	3,112756E+22	5,844059E+21	5,844454E+21	6,225619E+22	1,168851E+22	7,394470E+22
-88	3,112675E+22	3,112807E+22	5,844651E+21	5,843989E+21	6,225482E+22	1,168864E+22	7,394346E+22
-87	3,112807E+22	3,112825E+22	5,843942E+21	5,844444E+21	6,225632E+22	1,168839E+22	7,394471E+22
-86	3,112866E+22	3,112772E+22	5,843872E+21	5,843798E+21	6,225638E+22	1,168767E+22	7,394405E+22
-85	3,112788E+22	3,112921E+22	5,844051E+21	5,843436E+21	6,225709E+22	1,168749E+22	7,394458E+22
-84	3,113004E+22	3,112922E+22	5,843117E+21	5,843776E+21	6,225927E+22	1,168689E+22	7,394616E+22
-83	3,112940E+22	3,112939E+22	5,843436E+21	5,842997E+21	6,225878E+22	1,168643E+22	7,394522E+22
-82	3,112935E+22	3,113079E+22	5,843341E+21	5,843189E+21	6,226014E+22	1,168653E+22	7,394667E+22
-81	3,113103E+22	3,113006E+22	5,842722E+21	5,843262E+21	6,226108E+22	1,168598E+22	7,394707E+22
-80	3,112972E+22	3,113015E+22	5,843371E+21	5,842712E+21	6,225987E+22	1,168608E+22	7,394595E+22
-79	3,113035E+22	3,113056E+22	5,843092E+21	5,843338E+21	6,226090E+22	1,168643E+22	7,394733E+22
-78	3,113057E+22	3,112946E+22	5,843129E+21	5,843342E+21	6,226003E+22	1,168647E+22	7,394650E+22
-77	3,112843E+22	3,112988E+22	5,843925E+21	5,843354E+21	6,225831E+22	1,168728E+22	7,394559E+22
-76	3,112925E+22	3,112908E+22	5,843498E+21	5,844268E+21	6,225833E+22	1,168777E+22	7,394610E+22
-75	3,112826E+22	3,112752E+22	5,844163E+21	5,844041E+21	6,225578E+22	1,168820E+22	7,394398E+22
-74	3,112700E+22	3,112805E+22	5,844737E+21	5,844365E+21	6,225505E+22	1,168910E+22	7,394415E+22
-73	3,112811E+22	3,112688E+22	5,844336E+21	5,844976E+21	6,225498E+22	1,168931E+22	7,394430E+22
-72	3,112637E+22	3,112627E+22	5,845132E+21	5,844606E+21	6,225264E+22	1,168974E+22	7,394238E+22
-71	3,112603E+22	3,112703E+22	5,845036E+21	5,845140E+21	6,225305E+22	1,169018E+22	7,394323E+22
-70	3,112680E+22	3,112594E+22	5,844720E+21	5,845169E+21	6,225274E+22	1,168989E+22	7,394263E+22
-69	3,112530E+22	3,112649E+22	5,845272E+21	5,844580E+21	6,225180E+22	1,168985E+22	7,394165E+22
-68	3,112682E+22	3,112682E+22	5,844544E+21	5,844996E+21	6,225364E+22	1,168954E+22	7,394318E+22
-67	3,112724E+22	3,112616E+22	5,844532E+21	5,844398E+21	6,225340E+22	1,168893E+22	7,394233E+22
-66	3,112649E+22	3,112794E+22	5,844722E+21	5,844088E+21	6,225443E+22	1,168881E+22	7,394324E+22
-65	3,112838E+22	3,112801E+22	5,843786E+21	5,844461E+21	6,225639E+22	1,168825E+22	7,394464E+22
-64	3,112794E+22	3,112768E+22	5,844044E+21	5,843717E+21	6,225562E+22	1,168776E+22	7,394338E+22
-63	3,112802E+22	3,112907E+22	5,843950E+21	5,843783E+21	6,225709E+22	1,168773E+22	7,394482E+22
-62	3,112956E+22	3,112844E+22	5,843400E+21	5,843898E+21	6,225800E+22	1,168730E+22	7,394530E+22
-61	3,112822E+22	3,112865E+22	5,844079E+21	5,843391E+21	6,225688E+22	1,168747E+22	7,394435E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-60	3,112853E+22	3,112916E+22	5,843805E+21	5,844105E+21	6,225769E+22	1,168791E+22	7,394560E+22
-59	3,112846E+22	3,112762E+22	5,843929E+21	5,844198E+21	6,225608E+22	1,168813E+22	7,394421E+22
-58	3,112659E+22	3,112797E+22	5,844762E+21	5,844177E+21	6,225456E+22	1,168894E+22	7,394350E+22
-57	3,112744E+22	3,112722E+22	5,844353E+21	5,845057E+21	6,225466E+22	1,168941E+22	7,394407E+22
-56	3,112677E+22	3,112538E+22	5,844957E+21	5,844864E+21	6,225215E+22	1,168982E+22	7,394197E+22
-55	3,112544E+22	3,112619E+22	5,845506E+21	5,845123E+21	6,225162E+22	1,169063E+22	7,394225E+22
-54	3,112620E+22	3,112534E+22	5,845106E+21	5,845808E+21	6,225154E+22	1,169091E+22	7,394246E+22
-53	3,112453E+22	3,112473E+22	5,845855E+21	5,845388E+21	6,224926E+22	1,169124E+22	7,394051E+22
-52	3,112425E+22	3,112547E+22	5,845725E+21	5,845824E+21	6,224971E+22	1,169155E+22	7,394126E+22
-51	3,112510E+22	3,112409E+22	5,845452E+21	5,845808E+21	6,224919E+22	1,169126E+22	7,394045E+22
-50	3,112392E+22	3,112482E+22	5,846001E+21	5,845160E+21	6,224873E+22	1,169116E+22	7,393989E+22
-49	3,112526E+22	3,112550E+22	5,845250E+21	5,845616E+21	6,225076E+22	1,169087E+22	7,394163E+22
-48	3,112577E+22	3,112462E+22	5,845109E+21	5,845120E+21	6,225040E+22	1,169023E+22	7,394063E+22
-47	3,112501E+22	3,112644E+22	5,845265E+21	5,844733E+21	6,225145E+22	1,169000E+22	7,394144E+22
-46	3,112688E+22	3,112664E+22	5,844366E+21	5,845097E+21	6,225352E+22	1,168946E+22	7,394298E+22
-45	3,112672E+22	3,112624E+22	5,844634E+21	5,844293E+21	6,225296E+22	1,168893E+22	7,394189E+22
-44	3,112672E+22	3,112769E+22	5,844597E+21	5,844350E+21	6,225441E+22	1,168895E+22	7,394335E+22
-43	3,112786E+22	3,112684E+22	5,844161E+21	5,844599E+21	6,225470E+22	1,168876E+22	7,394346E+22
-42	3,112640E+22	3,112709E+22	5,844876E+21	5,844189E+21	6,225349E+22	1,168906E+22	7,394256E+22
-41	3,112648E+22	3,112750E+22	5,844629E+21	5,844956E+21	6,225398E+22	1,168959E+22	7,394357E+22
-40	3,112672E+22	3,112540E+22	5,844687E+21	5,845081E+21	6,225212E+22	1,168977E+22	7,394189E+22
-39	3,112509E+22	3,112583E+22	5,845504E+21	5,844928E+21	6,225092E+22	1,169043E+22	7,394135E+22
-38	3,112585E+22	3,112541E+22	5,845150E+21	5,845820E+21	6,225126E+22	1,169097E+22	7,394223E+22
-37	3,112516E+22	3,112383E+22	5,845735E+21	5,845636E+21	6,224899E+22	1,169137E+22	7,394036E+22
-36	3,112355E+22	3,112482E+22	5,846265E+21	5,845887E+21	6,224837E+22	1,169215E+22	7,394053E+22
-35	3,112403E+22	3,112363E+22	5,845940E+21	5,846595E+21	6,224767E+22	1,169253E+22	7,394020E+22
-34	3,112266E+22	3,112303E+22	5,846671E+21	5,846109E+21	6,224569E+22	1,169278E+22	7,393847E+22
-33	3,112248E+22	3,112375E+22	5,846507E+21	5,846488E+21	6,224623E+22	1,169299E+22	7,393923E+22
-32	3,112365E+22	3,112209E+22	5,846122E+21	5,846518E+21	6,224574E+22	1,169264E+22	7,393838E+22
-31	3,112258E+22	3,112315E+22	5,846573E+21	5,845826E+21	6,224573E+22	1,169240E+22	7,393813E+22
-30	3,112372E+22	3,112415E+22	5,845818E+21	5,846333E+21	6,224787E+22	1,169215E+22	7,394002E+22
-29	3,112443E+22	3,112331E+22	5,845637E+21	5,845774E+21	6,224774E+22	1,169141E+22	7,393915E+22
-28	3,112376E+22	3,112514E+22	5,845809E+21	5,845264E+21	6,224890E+22	1,169107E+22	7,393997E+22
-27	3,112546E+22	3,112511E+22	5,845046E+21	5,845621E+21	6,225057E+22	1,169067E+22	7,394124E+22
-26	3,112533E+22	3,112485E+22	5,845375E+21	5,844858E+21	6,225018E+22	1,169023E+22	7,394042E+22
-25	3,112491E+22	3,112637E+22	5,845380E+21	5,845035E+21	6,225129E+22	1,169042E+22	7,394170E+22
-24	3,112599E+22	3,112505E+22	5,844880E+21	5,845451E+21	6,225105E+22	1,169033E+22	7,394138E+22
-23	3,112464E+22	3,112516E+22	5,845564E+21	5,845003E+21	6,224980E+22	1,169057E+22	7,394037E+22
-22	3,112476E+22	3,112562E+22	5,845368E+21	5,845768E+21	6,225038E+22	1,169114E+22	7,394152E+22
-21	3,112532E+22	3,112356E+22	5,845415E+21	5,845838E+21	6,224888E+22	1,169125E+22	7,394013E+22
-20	3,112362E+22	3,112420E+22	5,846269E+21	5,845639E+21	6,224781E+22	1,169191E+22	7,393972E+22
-19	3,112393E+22	3,112378E+22	5,846037E+21	5,846633E+21	6,224771E+22	1,169267E+22	7,394038E+22
-18	3,112308E+22	3,112229E+22	5,846630E+21	5,846490E+21	6,224537E+22	1,169312E+22	7,393849E+22
-17	3,112130E+22	3,112316E+22	5,847157E+21	5,846733E+21	6,224445E+22	1,169389E+22	7,393834E+22
-16	3,112215E+22	3,112141E+22	5,846709E+21	5,847419E+21	6,224355E+22	1,169413E+22	7,393768E+22
-15	3,112111E+22	3,112086E+22	5,847351E+21	5,846793E+21	6,224197E+22	1,169414E+22	7,393612E+22
-14	3,112098E+22	3,112200E+22	5,847170E+21	5,847163E+21	6,224298E+22	1,169433E+22	7,393731E+22
-13	3,112231E+22	3,112067E+22	5,846691E+21	5,847182E+21	6,224298E+22	1,169387E+22	7,393686E+22
-12	3,112118E+22	3,112200E+22	5,847097E+21	5,846432E+21	6,224318E+22	1,169353E+22	7,393671E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-11	3,112214E+22	3,112283E+22	5,846459E+21	5,846931E+21	6,224497E+22	1,169339E+22	7,393836E+22
-10	3,112301E+22	3,112208E+22	5,846305E+21	5,846308E+21	6,224510E+22	1,169261E+22	7,393771E+22
-9	3,112230E+22	3,112384E+22	5,846531E+21	5,845802E+21	6,224614E+22	1,169233E+22	7,393847E+22
-8	3,112401E+22	3,112338E+22	5,845736E+21	5,846274E+21	6,224738E+22	1,169201E+22	7,393939E+22
-7	3,112377E+22	3,112321E+22	5,846030E+21	5,845589E+21	6,224697E+22	1,169162E+22	7,393859E+22
-6	3,112307E+22	3,112478E+22	5,846062E+21	5,845875E+21	6,224785E+22	1,169194E+22	7,393979E+22
-5	3,112437E+22	3,112331E+22	5,845531E+21	5,846280E+21	6,224767E+22	1,169181E+22	7,393948E+22
-4	3,112321E+22	3,112341E+22	5,846214E+21	5,845712E+21	6,224662E+22	1,169193E+22	7,393855E+22
-3	3,112317E+22	3,112374E+22	5,846186E+21	5,846468E+21	6,224692E+22	1,169265E+22	7,393957E+22
-2	3,112367E+22	3,112203E+22	5,846293E+21	5,846560E+21	6,224571E+22	1,169285E+22	7,393856E+22
-1	3,112160E+22	3,112275E+22	5,847183E+21	5,846453E+21	6,224434E+22	1,169364E+22	7,393798E+22
1	3,112174E+22	3,112184E+22	5,846895E+21	5,847542E+21	6,224357E+22	1,169444E+22	7,393801E+22
2	3,112107E+22	3,112027E+22	5,847415E+21	5,847344E+21	6,224133E+22	1,169476E+22	7,393609E+22
3	3,111940E+22	3,112114E+22	5,847916E+21	5,847532E+21	6,224053E+22	1,169545E+22	7,393598E+22
4	3,112068E+22	3,111945E+22	5,847385E+21	5,848134E+21	6,224014E+22	1,169552E+22	7,393566E+22
5	3,111981E+22	3,111922E+22	5,847961E+21	5,847416E+21	6,223904E+22	1,169538E+22	7,393441E+22
6	3,111937E+22	3,112052E+22	5,847870E+21	5,847845E+21	6,223990E+22	1,169571E+22	7,393561E+22
7	3,112067E+22	3,111953E+22	5,847383E+21	5,847848E+21	6,224020E+22	1,169523E+22	7,393544E+22
8	3,111952E+22	3,112077E+22	5,847804E+21	5,847068E+21	6,224029E+22	1,169487E+22	7,393516E+22
9	3,112067E+22	3,112112E+22	5,847122E+21	5,847543E+21	6,224179E+22	1,169467E+22	7,393645E+22
10	3,112172E+22	3,112042E+22	5,846928E+21	5,846871E+21	6,224213E+22	1,169380E+22	7,393593E+22
11	3,112078E+22	3,112236E+22	5,847184E+21	5,846451E+21	6,224314E+22	1,169364E+22	7,393677E+22
12	3,112246E+22	3,112196E+22	5,846329E+21	5,846999E+21	6,224442E+22	1,169333E+22	7,393774E+22
13	3,112217E+22	3,112177E+22	5,846601E+21	5,846304E+21	6,224394E+22	1,169291E+22	7,393684E+22
14	3,112137E+22	3,112309E+22	5,846783E+21	5,846618E+21	6,224446E+22	1,169340E+22	7,393786E+22
15	3,112283E+22	3,112172E+22	5,846300E+21	5,846966E+21	6,224455E+22	1,169327E+22	7,393782E+22
16	3,112164E+22	3,112180E+22	5,847054E+21	5,846420E+21	6,224344E+22	1,169347E+22	7,393691E+22
17	3,112150E+22	3,112182E+22	5,847023E+21	5,847271E+21	6,224332E+22	1,169429E+22	7,393761E+22
18	3,112178E+22	3,112023E+22	5,847106E+21	5,847429E+21	6,224201E+22	1,169454E+22	7,393654E+22
19	3,111943E+22	3,112095E+22	5,848018E+21	5,847384E+21	6,224038E+22	1,169540E+22	7,393578E+22
20	3,111983E+22	3,111985E+22	5,847657E+21	5,848400E+21	6,223968E+22	1,169606E+22	7,393573E+22
21	3,111943E+22	3,111829E+22	5,848115E+21	5,848050E+21	6,223772E+22	1,169616E+22	7,393389E+22
22	3,111774E+22	3,111917E+22	5,848708E+21	5,848216E+21	6,223691E+22	1,169692E+22	7,393384E+22
23	3,111904E+22	3,111799E+22	5,848163E+21	5,848796E+21	6,223703E+22	1,169696E+22	7,393399E+22
24	3,111806E+22	3,111798E+22	5,848711E+21	5,848134E+21	6,223603E+22	1,169685E+22	7,393288E+22
25	3,111763E+22	3,111890E+22	5,848561E+21	5,848586E+21	6,223654E+22	1,169715E+22	7,393368E+22
26	3,111914E+22	3,111798E+22	5,848018E+21	5,848508E+21	6,223712E+22	1,169653E+22	7,393364E+22
27	3,111806E+22	3,111924E+22	5,848434E+21	5,847689E+21	6,223731E+22	1,169612E+22	7,393343E+22
28	3,111943E+22	3,111957E+22	5,847700E+21	5,848122E+21	6,223900E+22	1,169582E+22	7,393482E+22
29	3,112047E+22	3,111904E+22	5,847468E+21	5,847450E+21	6,223951E+22	1,169492E+22	7,393443E+22
30	3,111913E+22	3,112088E+22	5,847842E+21	5,847158E+21	6,224001E+22	1,169500E+22	7,393501E+22
31	3,112072E+22	3,112065E+22	5,847022E+21	5,847719E+21	6,224137E+22	1,169474E+22	7,393611E+22
32	3,112058E+22	3,112022E+22	5,847323E+21	5,847026E+21	6,224080E+22	1,169435E+22	7,393515E+22
33	3,111988E+22	3,112104E+22	5,847519E+21	5,847324E+21	6,224092E+22	1,169484E+22	7,393577E+22
34	3,112142E+22	3,111989E+22	5,847050E+21	5,847656E+21	6,224131E+22	1,169471E+22	7,393601E+22
35	3,111991E+22	3,112015E+22	5,847858E+21	5,847209E+21	6,224007E+22	1,169507E+22	7,393513E+22
36	3,111961E+22	3,112019E+22	5,847795E+21	5,848115E+21	6,223980E+22	1,169591E+22	7,393571E+22
37	3,111984E+22	3,111855E+22	5,847849E+21	5,848240E+21	6,223839E+22	1,169609E+22	7,393448E+22
38	3,111738E+22	3,111898E+22	5,848872E+21	5,848208E+21	6,223636E+22	1,169708E+22	7,393344E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
39	3,111794E+22	3,111807E+22	5,848511E+21	5,849132E+21	6,223601E+22	1,169764E+22	7,393365E+22
40	3,111772E+22	3,111650E+22	5,848964E+21	5,848797E+21	6,223421E+22	1,169776E+22	7,393198E+22
41	3,111603E+22	3,111719E+22	5,849498E+21	5,849020E+21	6,223322E+22	1,169852E+22	7,393173E+22
42	3,111732E+22	3,111634E+22	5,848882E+21	5,849613E+21	6,223366E+22	1,169850E+22	7,393215E+22
43	3,111628E+22	3,111644E+22	5,849401E+21	5,848942E+21	6,223271E+22	1,169834E+22	7,393106E+22
44	3,111621E+22	3,111727E+22	5,849161E+21	5,849262E+21	6,223348E+22	1,169842E+22	7,393191E+22
45	3,111793E+22	3,111645E+22	5,848560E+21	5,849009E+21	6,223438E+22	1,169757E+22	7,393195E+22
46	3,111671E+22	3,111773E+22	5,849087E+21	5,848226E+21	6,223444E+22	1,169731E+22	7,393175E+22
47	3,111788E+22	3,111842E+22	5,848363E+21	5,848666E+21	6,223630E+22	1,169703E+22	7,393333E+22
48	3,111875E+22	3,111785E+22	5,848143E+21	5,848126E+21	6,223660E+22	1,169627E+22	7,393287E+22
49	3,111744E+22	3,111916E+22	5,848496E+21	5,847898E+21	6,223660E+22	1,169639E+22	7,393300E+22
50	3,111925E+22	3,111890E+22	5,847680E+21	5,848419E+21	6,223815E+22	1,169610E+22	7,393425E+22
51	3,111916E+22	3,111852E+22	5,848015E+21	5,847722E+21	6,223767E+22	1,169574E+22	7,393341E+22
52	3,111861E+22	3,111931E+22	5,848198E+21	5,848007E+21	6,223793E+22	1,169620E+22	7,393413E+22
53	3,111992E+22	3,111838E+22	5,847737E+21	5,848354E+21	6,223830E+22	1,169609E+22	7,393439E+22
54	3,111791E+22	3,111856E+22	5,848691E+21	5,848069E+21	6,223647E+22	1,169676E+22	7,393323E+22
55	3,111741E+22	3,111865E+22	5,848670E+21	5,848945E+21	6,223606E+22	1,169762E+22	7,393368E+22
56	3,111783E+22	3,111671E+22	5,848741E+21	5,849088E+21	6,223454E+22	1,169783E+22	7,393237E+22
57	3,111555E+22	3,111662E+22	5,849720E+21	5,849026E+21	6,223217E+22	1,169875E+22	7,393091E+22
58	3,111628E+22	3,111597E+22	5,849323E+21	5,849918E+21	6,223225E+22	1,169924E+22	7,393149E+22
59	3,111594E+22	3,111474E+22	5,849732E+21	5,849629E+21	6,223068E+22	1,169936E+22	7,393004E+22
60	3,111436E+22	3,111555E+22	5,850159E+21	5,849829E+21	6,222991E+22	1,169999E+22	7,392989E+22
61	3,111578E+22	3,111488E+22	5,849488E+21	5,850291E+21	6,223066E+22	1,169978E+22	7,393044E+22
62	3,111471E+22	3,111488E+22	5,850088E+21	5,849579E+21	6,222959E+22	1,169967E+22	7,392926E+22
63	3,111470E+22	3,111598E+22	5,849859E+21	5,849757E+21	6,223068E+22	1,169962E+22	7,393029E+22
64	3,111651E+22	3,111513E+22	5,849255E+21	5,849563E+21	6,223164E+22	1,169882E+22	7,393046E+22
65	3,111510E+22	3,111603E+22	5,849747E+21	5,848892E+21	6,223113E+22	1,169864E+22	7,392977E+22
66	3,111620E+22	3,111691E+22	5,848998E+21	5,849396E+21	6,223311E+22	1,169839E+22	7,393150E+22
67	3,111709E+22	3,111627E+22	5,848777E+21	5,848887E+21	6,223336E+22	1,169766E+22	7,393103E+22
68	3,111618E+22	3,111739E+22	5,849070E+21	5,848583E+21	6,223357E+22	1,169765E+22	7,393122E+22
69	3,111813E+22	3,111729E+22	5,848261E+21	5,848978E+21	6,223542E+22	1,169724E+22	7,393266E+22
70	3,111773E+22	3,111697E+22	5,848745E+21	5,848378E+21	6,223470E+22	1,169712E+22	7,393182E+22
71	3,111680E+22	3,111812E+22	5,848996E+21	5,848683E+21	6,223492E+22	1,169768E+22	7,393260E+22
72	3,111788E+22	3,111701E+22	5,848585E+21	5,849181E+21	6,223490E+22	1,169777E+22	7,393266E+22
73	3,111579E+22	3,111651E+22	5,849554E+21	5,848969E+21	6,223229E+22	1,169852E+22	7,393082E+22
74	3,111548E+22	3,111653E+22	5,849517E+21	5,849799E+21	6,223201E+22	1,169932E+22	7,393133E+22
75	3,111602E+22	3,111458E+22	5,849578E+21	5,849937E+21	6,223060E+22	1,169951E+22	7,393012E+22
76	3,111408E+22	3,111450E+22	5,850450E+21	5,849847E+21	6,222858E+22	1,170030E+22	7,392887E+22
77	3,111473E+22	3,111424E+22	5,850004E+21	5,850675E+21	6,222897E+22	1,170068E+22	7,392965E+22
78	3,111411E+22	3,111319E+22	5,850487E+21	5,850453E+21	6,222731E+22	1,170094E+22	7,392825E+22
79	3,111255E+22	3,111421E+22	5,850914E+21	5,850500E+21	6,222676E+22	1,170141E+22	7,392818E+22
80	3,111415E+22	3,111342E+22	5,850252E+21	5,850912E+21	6,222758E+22	1,170116E+22	7,392874E+22
81	3,111314E+22	3,111305E+22	5,850809E+21	5,850179E+21	6,222619E+22	1,170099E+22	7,392718E+22
82	3,111314E+22	3,111436E+22	5,850548E+21	5,850353E+21	6,222751E+22	1,170090E+22	7,392841E+22
83	3,111477E+22	3,111370E+22	5,849909E+21	5,850258E+21	6,222846E+22	1,170017E+22	7,392863E+22
84	3,111359E+22	3,111446E+22	5,850277E+21	5,849618E+21	6,222805E+22	1,169989E+22	7,392794E+22
85	3,111487E+22	3,111540E+22	5,849505E+21	5,850015E+21	6,223027E+22	1,169952E+22	7,392979E+22
86	3,111577E+22	3,111476E+22	5,849387E+21	5,849523E+21	6,223053E+22	1,169891E+22	7,392944E+22
87	3,111488E+22	3,111611E+22	5,849738E+21	5,849113E+21	6,223100E+22	1,169885E+22	7,392985E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
88	3,111675E+22	3,111601E+22	5,849016E+21	5,849612E+21	6,223276E+22	1,169863E+22	7,393139E+22
89	3,111592E+22	3,111531E+22	5,849531E+21	5,849179E+21	6,223123E+22	1,169871E+22	7,392994E+22
90	3,111477E+22	3,111643E+22	5,849817E+21	5,849554E+21	6,223120E+22	1,169937E+22	7,393057E+22
91	3,111582E+22	3,111509E+22	5,849427E+21	5,850087E+21	6,223092E+22	1,169951E+22	7,393043E+22
92	3,111414E+22	3,111423E+22	5,850302E+21	5,849811E+21	6,222837E+22	1,170011E+22	7,392849E+22
93	3,111402E+22	3,111445E+22	5,850237E+21	5,850507E+21	6,222847E+22	1,170074E+22	7,392922E+22
94	3,111435E+22	3,111272E+22	5,850378E+21	5,850720E+21	6,222707E+22	1,170110E+22	7,392817E+22
95	3,111217E+22	3,111312E+22	5,851249E+21	5,850585E+21	6,222529E+22	1,170183E+22	7,392712E+22
96	3,111283E+22	3,111288E+22	5,850829E+21	5,851468E+21	6,222571E+22	1,170230E+22	7,392801E+22
97	3,111215E+22	3,111137E+22	5,851297E+21	5,851235E+21	6,222352E+22	1,170253E+22	7,392605E+22
98	3,111080E+22	3,111248E+22	5,851696E+21	5,851181E+21	6,222327E+22	1,170288E+22	7,392615E+22
99	3,111249E+22	3,111170E+22	5,851005E+21	5,851569E+21	6,222419E+22	1,170257E+22	7,392677E+22
100	3,111172E+22	3,111125E+22	5,851418E+21	5,850861E+21	6,222297E+22	1,170228E+22	7,392525E+22
101	3,111166E+22	3,111286E+22	5,851079E+21	5,851006E+21	6,222451E+22	1,170209E+22	7,392660E+22
102	3,111310E+22	3,111227E+22	5,850498E+21	5,851003E+21	6,222537E+22	1,170150E+22	7,392687E+22
103	3,111214E+22	3,111318E+22	5,850865E+21	5,850224E+21	6,222532E+22	1,170109E+22	7,392641E+22
104	3,111370E+22	3,111402E+22	5,850155E+21	5,850584E+21	6,222772E+22	1,170074E+22	7,392846E+22
105	3,111447E+22	3,111311E+22	5,850071E+21	5,850112E+21	6,222757E+22	1,170018E+22	7,392776E+22
106	3,111341E+22	3,111467E+22	5,850470E+21	5,849746E+21	6,222808E+22	1,170022E+22	7,392830E+22
107	3,111484E+22	3,111462E+22	5,849795E+21	5,850371E+21	6,222946E+22	1,170017E+22	7,392963E+22
108	3,111413E+22	3,111355E+22	5,850236E+21	5,850034E+21	6,222768E+22	1,170027E+22	7,392795E+22
109	3,111303E+22	3,111454E+22	5,850518E+21	5,850314E+21	6,222757E+22	1,170083E+22	7,392841E+22
110	3,111404E+22	3,111317E+22	5,850219E+21	5,850888E+21	6,222720E+22	1,170111E+22	7,392831E+22
111	3,111252E+22	3,111247E+22	5,851092E+21	5,850506E+21	6,222499E+22	1,170160E+22	7,392659E+22
112	3,111237E+22	3,111276E+22	5,851084E+21	5,851280E+21	6,222513E+22	1,170236E+22	7,392749E+22
113	3,111233E+22	3,111092E+22	5,851221E+21	5,851604E+21	6,222324E+22	1,170283E+22	7,392607E+22
114	3,111013E+22	3,111141E+22	5,852095E+21	5,851462E+21	6,222155E+22	1,170356E+22	7,392510E+22
115	3,111083E+22	3,111109E+22	5,851688E+21	5,852291E+21	6,222192E+22	1,170398E+22	7,392590E+22
116	3,111060E+22	3,110935E+22	5,852004E+21	5,851975E+21	6,221995E+22	1,170398E+22	7,392393E+22
117	3,110937E+22	3,111065E+22	5,852326E+21	5,851773E+21	6,222002E+22	1,170410E+22	7,392412E+22
118	3,111083E+22	3,111016E+22	5,851663E+21	5,852241E+21	6,222099E+22	1,170390E+22	7,392489E+22
119	3,111003E+22	3,111003E+22	5,852019E+21	5,851486E+21	6,222006E+22	1,170351E+22	7,392356E+22
120	3,111015E+22	3,111158E+22	5,851712E+21	5,851669E+21	6,222173E+22	1,170338E+22	7,392511E+22
121	3,111159E+22	3,111067E+22	5,851137E+21	5,851659E+21	6,222226E+22	1,170280E+22	7,392506E+22
122	3,111087E+22	3,111169E+22	5,851518E+21	5,850806E+21	6,222256E+22	1,170232E+22	7,392488E+22
123	3,111238E+22	3,111257E+22	5,850869E+21	5,851172E+21	6,222495E+22	1,170204E+22	7,392699E+22
124	3,111315E+22	3,111152E+22	5,850705E+21	5,850793E+21	6,222466E+22	1,170150E+22	7,392616E+22
125	3,111180E+22	3,111321E+22	5,851103E+21	5,850453E+21	6,222501E+22	1,170156E+22	7,392657E+22
126	3,111289E+22	3,111304E+22	5,850532E+21	5,851193E+21	6,222593E+22	1,170172E+22	7,392765E+22
127	3,111228E+22	3,111189E+22	5,850994E+21	5,850769E+21	6,222417E+22	1,170176E+22	7,392593E+22
128	3,111146E+22	3,111271E+22	5,851331E+21	5,851050E+21	6,222417E+22	1,170238E+22	7,392655E+22
129	3,111226E+22	3,111108E+22	5,851062E+21	5,851673E+21	6,222334E+22	1,170274E+22	7,392608E+22
130	3,111068E+22	3,111068E+22	5,851938E+21	5,851330E+21	6,222136E+22	1,170327E+22	7,392463E+22
131	3,111029E+22	3,111108E+22	5,851961E+21	5,852169E+21	6,222137E+22	1,170413E+22	7,392550E+22
132	3,111044E+22	3,110901E+22	5,851990E+21	5,852512E+21	6,221945E+22	1,170450E+22	7,392395E+22
133	3,110842E+22	3,110956E+22	5,852817E+21	5,852215E+21	6,221797E+22	1,170503E+22	7,392301E+22
134	3,110908E+22	3,110930E+22	5,852456E+21	5,853013E+21	6,221838E+22	1,170547E+22	7,392385E+22
135	3,110902E+22	3,110779E+22	5,852725E+21	5,852587E+21	6,221681E+22	1,170531E+22	7,392213E+22
136	3,110784E+22	3,110917E+22	5,853035E+21	5,852443E+21	6,221701E+22	1,170548E+22	7,392249E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
137	3,110896E+22	3,110856E+22	5,852347E+21	5,852995E+21	6,221752E+22	1,170534E+22	7,392286E+22
138	3,110839E+22	3,110851E+22	5,852675E+21	5,852205E+21	6,221690E+22	1,170488E+22	7,392178E+22
139	3,110869E+22	3,111001E+22	5,852403E+21	5,852315E+21	6,221870E+22	1,170472E+22	7,392342E+22
140	3,111052E+22	3,110899E+22	5,851715E+21	5,852253E+21	6,221952E+22	1,170397E+22	7,392349E+22
141	3,110979E+22	3,111020E+22	5,852079E+21	5,851315E+21	6,221999E+22	1,170339E+22	7,392338E+22
142	3,111077E+22	3,111133E+22	5,851528E+21	5,851803E+21	6,222210E+22	1,170333E+22	7,392543E+22
143	3,111137E+22	3,111039E+22	5,851357E+21	5,851453E+21	6,222176E+22	1,170281E+22	7,392457E+22
144	3,111005E+22	3,111173E+22	5,851835E+21	5,851197E+21	6,222178E+22	1,170303E+22	7,392481E+22
145	3,111095E+22	3,111116E+22	5,851314E+21	5,851975E+21	6,222211E+22	1,170329E+22	7,392540E+22
146	3,111063E+22	3,110996E+22	5,851792E+21	5,851530E+21	6,222060E+22	1,170332E+22	7,392392E+22
147	3,110980E+22	3,111076E+22	5,852193E+21	5,851842E+21	6,222056E+22	1,170403E+22	7,392459E+22
148	3,111062E+22	3,110911E+22	5,851818E+21	5,852563E+21	6,221973E+22	1,170438E+22	7,392412E+22
149	3,110888E+22	3,110890E+22	5,852663E+21	5,852201E+21	6,221778E+22	1,170486E+22	7,392264E+22
150	3,110828E+22	3,110935E+22	5,852776E+21	5,853057E+21	6,221763E+22	1,170583E+22	7,392346E+22
151	3,110865E+22	3,110733E+22	5,852786E+21	5,853239E+21	6,221598E+22	1,170603E+22	7,392201E+22
152	3,110688E+22	3,110780E+22	5,853630E+21	5,852892E+21	6,221468E+22	1,170652E+22	7,392120E+22
153	3,110721E+22	3,110745E+22	5,853268E+21	5,853703E+21	6,221467E+22	1,170697E+22	7,392164E+22
154	3,110715E+22	3,110620E+22	5,853488E+21	5,853313E+21	6,221335E+22	1,170680E+22	7,392016E+22
155	3,110596E+22	3,110760E+22	5,853786E+21	5,853207E+21	6,221356E+22	1,170699E+22	7,392055E+22
156	3,110741E+22	3,110679E+22	5,852961E+21	5,853747E+21	6,221420E+22	1,170671E+22	7,392091E+22
157	3,110715E+22	3,110691E+22	5,853219E+21	5,852806E+21	6,221407E+22	1,170602E+22	7,392009E+22
158	3,110745E+22	3,110856E+22	5,853006E+21	5,852883E+21	6,221602E+22	1,170589E+22	7,392190E+22
159	3,110927E+22	3,110779E+22	5,852318E+21	5,852750E+21	6,221706E+22	1,170507E+22	7,392213E+22
160	3,110840E+22	3,110904E+22	5,852724E+21	5,851940E+21	6,221744E+22	1,170466E+22	7,392210E+22
161	3,110877E+22	3,110988E+22	5,852238E+21	5,852547E+21	6,221865E+22	1,170479E+22	7,392344E+22
162	3,110950E+22	3,110877E+22	5,852104E+21	5,852232E+21	6,221827E+22	1,170434E+22	7,392260E+22
163	3,110837E+22	3,110982E+22	5,852636E+21	5,851959E+21	6,221819E+22	1,170459E+22	7,392278E+22
164	3,110955E+22	3,110902E+22	5,852021E+21	5,852739E+21	6,221857E+22	1,170476E+22	7,392333E+22
165	3,110925E+22	3,110806E+22	5,852469E+21	5,852253E+21	6,221731E+22	1,170472E+22	7,392203E+22
166	3,110800E+22	3,110914E+22	5,852949E+21	5,852664E+21	6,221713E+22	1,170561E+22	7,392275E+22
167	3,110872E+22	3,110769E+22	5,852592E+21	5,853359E+21	6,221642E+22	1,170595E+22	7,392237E+22
168	3,110710E+22	3,110730E+22	5,853500E+21	5,853017E+21	6,221440E+22	1,170652E+22	7,392091E+22
169	3,110621E+22	3,110748E+22	5,853669E+21	5,853838E+21	6,221369E+22	1,170751E+22	7,392120E+22
170	3,110684E+22	3,110548E+22	5,853668E+21	5,853981E+21	6,221233E+22	1,170765E+22	7,391998E+22
171	3,110506E+22	3,110589E+22	5,854513E+21	5,853652E+21	6,221095E+22	1,170816E+22	7,391911E+22
172	3,110542E+22	3,110555E+22	5,853977E+21	5,854537E+21	6,221097E+22	1,170851E+22	7,391949E+22
173	3,110545E+22	3,110445E+22	5,854092E+21	5,854099E+21	6,220990E+22	1,170819E+22	7,391809E+22
174	3,110429E+22	3,110596E+22	5,854418E+21	5,853959E+21	6,221025E+22	1,170838E+22	7,391862E+22
175	3,110614E+22	3,110538E+22	5,853551E+21	5,854308E+21	6,221152E+22	1,170786E+22	7,391938E+22
176	3,110614E+22	3,110554E+22	5,853822E+21	5,853316E+21	6,221168E+22	1,170714E+22	7,391882E+22
177	3,110592E+22	3,110722E+22	5,853671E+21	5,853422E+21	6,221313E+22	1,170709E+22	7,392023E+22
178	3,110759E+22	3,110661E+22	5,852993E+21	5,853368E+21	6,221420E+22	1,170636E+22	7,392056E+22
179	3,110657E+22	3,110760E+22	5,853459E+21	5,852664E+21	6,221417E+22	1,170612E+22	7,392029E+22
180	3,110709E+22	3,110806E+22	5,852887E+21	5,853314E+21	6,221515E+22	1,170620E+22	7,392135E+22
181	3,110808E+22	3,110689E+22	5,852724E+21	5,852936E+21	6,221497E+22	1,170566E+22	7,392063E+22
182	3,110696E+22	3,110799E+22	5,853329E+21	5,852682E+21	6,221495E+22	1,170601E+22	7,392096E+22
183	3,110816E+22	3,110743E+22	5,852732E+21	5,853424E+21	6,221559E+22	1,170616E+22	7,392174E+22
184	3,110769E+22	3,110660E+22	5,853220E+21	5,853050E+21	6,221429E+22	1,170627E+22	7,392056E+22
185	3,110584E+22	3,110749E+22	5,853800E+21	5,853528E+21	6,221334E+22	1,170733E+22	7,392066E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
186	3,110666E+22	3,110597E+22	5,853507E+21	5,854205E+21	6,221263E+22	1,170771E+22	7,392034E+22
187	3,110520E+22	3,110532E+22	5,854461E+21	5,853842E+21	6,221053E+22	1,170830E+22	7,391883E+22
188	3,110443E+22	3,110528E+22	5,854501E+21	5,854638E+21	6,220970E+22	1,170914E+22	7,391884E+22
189	3,110507E+22	3,110350E+22	5,854411E+21	5,854758E+21	6,220857E+22	1,170917E+22	7,391774E+22
190	3,110312E+22	3,110412E+22	5,855217E+21	5,854487E+21	6,220724E+22	1,170970E+22	7,391695E+22
191	3,110365E+22	3,110396E+22	5,854626E+21	5,855273E+21	6,220761E+22	1,170990E+22	7,391751E+22
192	3,110405E+22	3,110296E+22	5,854718E+21	5,854777E+21	6,220700E+22	1,170950E+22	7,391650E+22
193	3,110277E+22	3,110441E+22	5,855087E+21	5,854551E+21	6,220718E+22	1,170964E+22	7,391681E+22
194	3,110484E+22	3,110402E+22	5,854254E+21	5,854837E+21	6,220886E+22	1,170909E+22	7,391795E+22
195	3,110473E+22	3,110419E+22	5,854549E+21	5,853912E+21	6,220892E+22	1,170846E+22	7,391738E+22
196	3,110427E+22	3,110571E+22	5,854284E+21	5,854117E+21	6,220999E+22	1,170840E+22	7,391839E+22
197	3,110592E+22	3,110506E+22	5,853572E+21	5,854086E+21	6,221098E+22	1,170766E+22	7,391864E+22
198	3,110495E+22	3,110588E+22	5,854086E+21	5,853403E+21	6,221084E+22	1,170749E+22	7,391833E+22
199	3,110579E+22	3,110639E+22	5,853520E+21	5,853929E+21	6,221219E+22	1,170745E+22	7,391964E+22
200	3,110694E+22	3,110530E+22	5,853385E+21	5,853566E+21	6,221224E+22	1,170695E+22	7,391919E+22
201	3,110524E+22	3,110644E+22	5,854084E+21	5,853387E+21	6,221167E+22	1,170747E+22	7,391915E+22
202	3,110628E+22	3,110605E+22	5,853559E+21	5,854205E+21	6,221232E+22	1,170776E+22	7,392009E+22
203	3,110568E+22	3,110495E+22	5,854128E+21	5,853919E+21	6,221063E+22	1,170805E+22	7,391868E+22
204	3,110388E+22	3,110550E+22	5,854637E+21	5,854401E+21	6,220938E+22	1,170904E+22	7,391841E+22
205	3,110491E+22	3,110389E+22	5,854306E+21	5,855009E+21	6,220880E+22	1,170931E+22	7,391812E+22
206	3,110340E+22	3,110324E+22	5,855280E+21	5,854663E+21	6,220664E+22	1,170994E+22	7,391658E+22
207	3,110269E+22	3,110346E+22	5,855250E+21	5,855403E+21	6,220614E+22	1,171065E+22	7,391680E+22
208	3,110333E+22	3,110183E+22	5,855112E+21	5,855576E+21	6,220516E+22	1,171069E+22	7,391585E+22
209	3,110110E+22	3,110239E+22	5,855949E+21	5,855292E+21	6,220349E+22	1,171124E+22	7,391473E+22
210	3,110202E+22	3,110235E+22	5,855389E+21	5,855962E+21	6,220437E+22	1,171135E+22	7,391572E+22
211	3,110267E+22	3,110135E+22	5,855491E+21	5,855395E+21	6,220402E+22	1,171089E+22	7,391490E+22
212	3,110144E+22	3,110276E+22	5,855741E+21	5,855133E+21	6,220420E+22	1,171087E+22	7,391507E+22
213	3,110338E+22	3,110261E+22	5,854857E+21	5,855423E+21	6,220599E+22	1,171028E+22	7,391627E+22
214	3,110298E+22	3,110286E+22	5,855158E+21	5,854610E+21	6,220584E+22	1,170977E+22	7,391561E+22
215	3,110263E+22	3,110433E+22	5,854870E+21	5,854767E+21	6,220696E+22	1,170964E+22	7,391659E+22
216	3,110453E+22	3,110359E+22	5,854168E+21	5,854737E+21	6,220812E+22	1,170891E+22	7,391703E+22
217	3,110343E+22	3,110423E+22	5,854754E+21	5,854046E+21	6,220766E+22	1,170880E+22	7,391646E+22
218	3,110443E+22	3,110484E+22	5,854279E+21	5,854560E+21	6,220926E+22	1,170884E+22	7,391810E+22
219	3,110542E+22	3,110381E+22	5,854193E+21	5,854322E+21	6,220922E+22	1,170852E+22	7,391774E+22
220	3,110342E+22	3,110471E+22	5,854819E+21	5,854244E+21	6,220813E+22	1,170906E+22	7,391719E+22
221	3,110437E+22	3,110424E+22	5,854325E+21	5,855069E+21	6,220861E+22	1,170939E+22	7,391800E+22
222	3,110381E+22	3,110300E+22	5,854938E+21	5,854793E+21	6,220681E+22	1,170973E+22	7,391654E+22
223	3,110221E+22	3,110351E+22	5,855430E+21	5,855137E+21	6,220572E+22	1,171057E+22	7,391629E+22
224	3,110332E+22	3,110204E+22	5,855087E+21	5,855742E+21	6,220536E+22	1,171083E+22	7,391619E+22
225	3,110133E+22	3,110142E+22	5,856090E+21	5,855454E+21	6,220275E+22	1,171154E+22	7,391430E+22
226	3,110064E+22	3,110182E+22	5,856088E+21	5,856201E+21	6,220246E+22	1,171229E+22	7,391475E+22
227	3,110143E+22	3,110015E+22	5,855955E+21	5,856398E+21	6,220158E+22	1,171235E+22	7,391393E+22
228	3,109942E+22	3,110052E+22	5,856661E+21	5,856050E+21	6,219994E+22	1,171271E+22	7,391265E+22
229	3,110065E+22	3,110061E+22	5,856073E+21	5,856607E+21	6,220127E+22	1,171268E+22	7,391395E+22
230	3,110126E+22	3,109979E+22	5,856162E+21	5,856037E+21	6,220106E+22	1,171220E+22	7,391325E+22
231	3,110000E+22	3,110142E+22	5,856342E+21	5,855734E+21	6,220143E+22	1,171208E+22	7,391350E+22
232	3,110180E+22	3,110138E+22	5,855424E+21	5,856080E+21	6,220318E+22	1,171150E+22	7,391468E+22
233	3,110109E+22	3,110137E+22	5,855793E+21	5,855311E+21	6,220246E+22	1,171110E+22	7,391357E+22
234	3,110112E+22	3,110278E+22	5,855574E+21	5,855399E+21	6,220390E+22	1,171097E+22	7,391488E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
235	3,110323E+22	3,110195E+22	5,854910E+21	5,855376E+21	6,220518E+22	1,171029E+22	7,391546E+22
236	3,110209E+22	3,110248E+22	5,855401E+21	5,854717E+21	6,220457E+22	1,171012E+22	7,391469E+22
237	3,110296E+22	3,110325E+22	5,854937E+21	5,855270E+21	6,220621E+22	1,171021E+22	7,391642E+22
238	3,110358E+22	3,110226E+22	5,854898E+21	5,855138E+21	6,220584E+22	1,171004E+22	7,391588E+22
239	3,110167E+22	3,110310E+22	5,855539E+21	5,855011E+21	6,220476E+22	1,171055E+22	7,391531E+22
240	3,110271E+22	3,110255E+22	5,855083E+21	5,855805E+21	6,220526E+22	1,171089E+22	7,391615E+22
241	3,110189E+22	3,110111E+22	5,855796E+21	5,855554E+21	6,220299E+22	1,171135E+22	7,391434E+22
242	3,110040E+22	3,110167E+22	5,856350E+21	5,855889E+21	6,220207E+22	1,171224E+22	7,391431E+22
243	3,110133E+22	3,110026E+22	5,856005E+21	5,856616E+21	6,220158E+22	1,171262E+22	7,391420E+22
244	3,109923E+22	3,109943E+22	5,856863E+21	5,856387E+21	6,219866E+22	1,171325E+22	7,391191E+22
245	3,109879E+22	3,10981E+22	5,856850E+21	5,857069E+21	6,219860E+22	1,171392E+22	7,391252E+22
246	3,109976E+22	3,109828E+22	5,856708E+21	5,857194E+21	6,219805E+22	1,171390E+22	7,391195E+22
247	3,109811E+22	3,109883E+22	5,857339E+21	5,856679E+21	6,219694E+22	1,171402E+22	7,391096E+22
248	3,109932E+22	3,109923E+22	5,856722E+21	5,857185E+21	6,219854E+22	1,171391E+22	7,391245E+22
249	3,109941E+22	3,109849E+22	5,856831E+21	5,856683E+21	6,219790E+22	1,171351E+22	7,391142E+22
250	3,109816E+22	3,110013E+22	5,857046E+21	5,856378E+21	6,219829E+22	1,171342E+22	7,391172E+22
251	3,110008E+22	3,109996E+22	5,856141E+21	5,856772E+21	6,220004E+22	1,171291E+22	7,391295E+22
252	3,109962E+22	3,109957E+22	5,856390E+21	5,855983E+21	6,219919E+22	1,171237E+22	7,391156E+22
253	3,109995E+22	3,110098E+22	5,856197E+21	5,856021E+21	6,220092E+22	1,171222E+22	7,391314E+22
254	3,110196E+22	3,110038E+22	5,855548E+21	5,856049E+21	6,220234E+22	1,171160E+22	7,391394E+22
255	3,110074E+22	3,110105E+22	5,855999E+21	5,855401E+21	6,220179E+22	1,171140E+22	7,391319E+22
256	3,110135E+22	3,110193E+22	5,855579E+21	5,855990E+21	6,220328E+22	1,171157E+22	7,391484E+22
257	3,110161E+22	3,110067E+22	5,855670E+21	5,855909E+21	6,220228E+22	1,171158E+22	7,391386E+22
258	3,109989E+22	3,110137E+22	5,856427E+21	5,855726E+21	6,220126E+22	1,171215E+22	7,391341E+22
259	3,110093E+22	3,110074E+22	5,856018E+21	5,856566E+21	6,220167E+22	1,171258E+22	7,391425E+22
260	3,109995E+22	3,109904E+22	5,856627E+21	5,856397E+21	6,219900E+22	1,171302E+22	7,391202E+22
261	3,109844E+22	3,109966E+22	5,857165E+21	5,856786E+21	6,219810E+22	1,171395E+22	7,391205E+22
262	3,109924E+22	3,109834E+22	5,856800E+21	5,857560E+21	6,219758E+22	1,171436E+22	7,391194E+22
263	3,109753E+22	3,109755E+22	5,857575E+21	5,857224E+21	6,219508E+22	1,171480E+22	7,390988E+22
264	3,109734E+22	3,109812E+22	5,857545E+21	5,857774E+21	6,219546E+22	1,171532E+22	7,391078E+22
265	3,109812E+22	3,109666E+22	5,857472E+21	5,857857E+21	6,219479E+22	1,171533E+22	7,391011E+22
266	3,109658E+22	3,109743E+22	5,858136E+21	5,857295E+21	6,219401E+22	1,171543E+22	7,390944E+22
267	3,109752E+22	3,109790E+22	5,857499E+21	5,857882E+21	6,219542E+22	1,171538E+22	7,391080E+22
268	3,109746E+22	3,109683E+22	5,857475E+21	5,857445E+21	6,219430E+22	1,171492E+22	7,390922E+22
269	3,109659E+22	3,109828E+22	5,857673E+21	5,857092E+21	6,219487E+22	1,171477E+22	7,390963E+22
270	3,109867E+22	3,109817E+22	5,856760E+21	5,857430E+21	6,219683E+22	1,171419E+22	7,391102E+22
271	3,109861E+22	3,109794E+22	5,856929E+21	5,856548E+21	6,219655E+22	1,171348E+22	7,391002E+22
272	3,109884E+22	3,109966E+22	5,856749E+21	5,856568E+21	6,219850E+22	1,171332E+22	7,391182E+22
273	3,110023E+22	3,109918E+22	5,856210E+21	5,856703E+21	6,219941E+22	1,171291E+22	7,391232E+22
274	3,109896E+22	3,109981E+22	5,856770E+21	5,856087E+21	6,219877E+22	1,171286E+22	7,391163E+22
275	3,109947E+22	3,110047E+22	5,856433E+21	5,856737E+21	6,219994E+22	1,171317E+22	7,391311E+22
276	3,109974E+22	3,109874E+22	5,856467E+21	5,856709E+21	6,219848E+22	1,171318E+22	7,391166E+22
277	3,109825E+22	3,109922E+22	5,857263E+21	5,856539E+21	6,219747E+22	1,171380E+22	7,391127E+22
278	3,109907E+22	3,109875E+22	5,856849E+21	5,857451E+21	6,219782E+22	1,171430E+22	7,391212E+22
279	3,109815E+22	3,109712E+22	5,857349E+21	5,857311E+21	6,219528E+22	1,171466E+22	7,390994E+22
280	3,109662E+22	3,109785E+22	5,857875E+21	5,857662E+21	6,219446E+22	1,171554E+22	7,391000E+22
281	3,109731E+22	3,109651E+22	5,857606E+21	5,858397E+21	6,219381E+22	1,171600E+22	7,390982E+22
282	3,109595E+22	3,109582E+22	5,858439E+21	5,857913E+21	6,219177E+22	1,171635E+22	7,390813E+22
283	3,109577E+22	3,109658E+22	5,858425E+21	5,858435E+21	6,219235E+22	1,171686E+22	7,390921E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
284	3,109632E+22	3,109499E+22	5,858222E+21	5,858557E+21	6,219131E+22	1,171678E+22	7,390809E+22
285	3,109472E+22	3,109574E+22	5,858852E+21	5,858033E+21	6,219046E+22	1,171689E+22	7,390735E+22
286	3,109556E+22	3,109629E+22	5,858169E+21	5,858629E+21	6,219185E+22	1,171680E+22	7,390865E+22
287	3,109598E+22	3,109512E+22	5,858028E+21	5,858120E+21	6,219110E+22	1,171615E+22	7,390725E+22
288	3,109544E+22	3,109669E+22	5,858200E+21	5,857654E+21	6,219214E+22	1,171585E+22	7,390799E+22
289	3,109739E+22	3,109671E+22	5,857385E+21	5,857992E+21	6,219410E+22	1,171538E+22	7,390948E+22
290	3,109735E+22	3,109675E+22	5,857607E+21	5,857111E+21	6,219410E+22	1,171472E+22	7,390882E+22
291	3,109724E+22	3,109858E+22	5,857468E+21	5,857249E+21	6,219581E+22	1,171472E+22	7,391053E+22
292	3,109831E+22	3,109764E+22	5,856899E+21	5,857476E+21	6,219596E+22	1,171438E+22	7,391033E+22
293	3,109729E+22	3,109792E+22	5,857535E+21	5,856880E+21	6,219521E+22	1,171442E+22	7,390963E+22
294	3,109775E+22	3,109854E+22	5,857229E+21	5,857505E+21	6,219628E+22	1,171473E+22	7,391102E+22
295	3,109827E+22	3,109677E+22	5,857187E+21	5,857480E+21	6,219503E+22	1,171467E+22	7,390970E+22
296	3,109667E+22	3,109741E+22	5,857961E+21	5,857312E+21	6,219408E+22	1,171527E+22	7,390935E+22
297	3,109699E+22	3,109702E+22	5,857641E+21	5,858306E+21	6,219401E+22	1,171595E+22	7,390996E+22
298	3,109625E+22	3,109548E+22	5,858197E+21	5,858130E+21	6,219173E+22	1,171633E+22	7,390805E+22
299	3,109481E+22	3,109617E+22	5,858761E+21	5,858461E+21	6,219097E+22	1,171722E+22	7,390819E+22
300	3,109547E+22	3,109458E+22	5,858451E+21	5,859172E+21	6,219004E+22	1,171762E+22	7,390767E+22
301	3,109439E+22	3,109387E+22	5,859290E+21	5,858670E+21	6,218826E+22	1,171796E+22	7,390622E+22
302	3,109386E+22	3,109485E+22	5,859233E+21	5,859197E+21	6,218872E+22	1,171843E+22	7,390715E+22
303	3,109448E+22	3,109332E+22	5,858869E+21	5,859350E+21	6,218781E+22	1,171822E+22	7,390603E+22
304	3,109302E+22	3,109405E+22	5,859431E+21	5,858753E+21	6,218706E+22	1,171818E+22	7,390525E+22
305	3,109384E+22	3,109459E+22	5,858820E+21	5,859298E+21	6,218843E+22	1,171812E+22	7,390655E+22
306	3,109473E+22	3,109363E+22	5,858697E+21	5,858667E+21	6,218836E+22	1,171736E+22	7,390573E+22
307	3,109424E+22	3,109541E+22	5,858880E+21	5,858218E+21	6,218965E+22	1,171710E+22	7,390675E+22
308	3,109585E+22	3,109534E+22	5,858022E+21	5,858630E+21	6,219119E+22	1,171665E+22	7,390784E+22
309	3,109580E+22	3,109529E+22	5,858268E+21	5,857828E+21	6,219109E+22	1,171610E+22	7,390719E+22
310	3,109543E+22	3,109709E+22	5,858164E+21	5,857974E+21	6,219252E+22	1,171614E+22	7,390866E+22
311	3,109681E+22	3,109593E+22	5,857527E+21	5,858198E+21	6,219274E+22	1,171572E+22	7,390847E+22
312	3,109593E+22	3,109613E+22	5,858184E+21	5,857551E+21	6,219206E+22	1,171574E+22	7,390780E+22
313	3,109610E+22	3,109678E+22	5,858007E+21	5,858228E+21	6,219288E+22	1,171623E+22	7,390911E+22
314	3,109658E+22	3,109516E+22	5,858012E+21	5,858239E+21	6,219174E+22	1,171625E+22	7,390800E+22
315	3,109474E+22	3,109586E+22	5,858799E+21	5,858181E+21	6,219060E+22	1,171698E+22	7,390757E+22
316	3,109490E+22	3,109504E+22	5,858465E+21	5,859206E+21	6,218994E+22	1,171767E+22	7,390761E+22
317	3,109450E+22	3,109333E+22	5,859068E+21	5,858988E+21	6,218783E+22	1,171806E+22	7,390589E+22
318	3,109303E+22	3,109424E+22	5,859634E+21	5,859230E+21	6,218726E+22	1,171886E+22	7,390613E+22
319	3,109387E+22	3,109272E+22	5,859215E+21	5,859925E+21	6,218659E+22	1,171914E+22	7,390573E+22
320	3,109263E+22	3,109223E+22	5,859987E+21	5,859404E+21	6,218486E+22	1,171939E+22	7,390425E+22
321	3,109171E+22	3,109328E+22	5,859969E+21	5,859965E+21	6,218499E+22	1,171993E+22	7,390492E+22
322	3,109262E+22	3,109178E+22	5,859598E+21	5,860050E+21	6,218440E+22	1,171965E+22	7,390405E+22
323	3,109146E+22	3,109251E+22	5,860123E+21	5,859422E+21	6,218397E+22	1,171955E+22	7,390352E+22
324	3,109240E+22	3,109282E+22	5,859473E+21	5,859928E+21	6,218522E+22	1,171940E+22	7,390463E+22
325	3,109361E+22	3,109198E+22	5,859363E+21	5,859303E+21	6,218559E+22	1,171867E+22	7,390426E+22
326	3,109279E+22	3,109407E+22	5,859523E+21	5,858870E+21	6,218686E+22	1,171839E+22	7,390525E+22
327	3,109436E+22	3,109398E+22	5,858577E+21	5,859336E+21	6,218834E+22	1,171791E+22	7,390625E+22
328	3,109434E+22	3,109380E+22	5,858827E+21	5,858495E+21	6,218814E+22	1,171732E+22	7,390546E+22
329	3,109377E+22	3,109546E+22	5,858867E+21	5,858619E+21	6,218922E+22	1,171749E+22	7,390671E+22
330	3,109538E+22	3,109440E+22	5,858297E+21	5,858798E+21	6,218977E+22	1,171709E+22	7,390687E+22
331	3,109441E+22	3,109460E+22	5,858975E+21	5,858243E+21	6,218900E+22	1,171722E+22	7,390622E+22
332	3,109409E+22	3,109499E+22	5,858804E+21	5,859036E+21	6,218908E+22	1,171784E+22	7,390692E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
333	3,109466E+22	3,109329E+22	5,858834E+21	5,859142E+21	6,218795E+22	1,171798E+22	7,390592E+22
334	3,109269E+22	3,109396E+22	5,859631E+21	5,859057E+21	6,218666E+22	1,171869E+22	7,390535E+22
335	3,109321E+22	3,109306E+22	5,859234E+21	5,860051E+21	6,218627E+22	1,171928E+22	7,390555E+22
336	3,109299E+22	3,109142E+22	5,859823E+21	5,859743E+21	6,218441E+22	1,171957E+22	7,390397E+22
337	3,109118E+22	3,109247E+22	5,860479E+21	5,859991E+21	6,218365E+22	1,172047E+22	7,390412E+22
338	3,109196E+22	3,109122E+22	5,860049E+21	5,860686E+21	6,218318E+22	1,172074E+22	7,390392E+22
339	3,109059E+22	3,109070E+22	5,860769E+21	5,860234E+21	6,218129E+22	1,172100E+22	7,390229E+22
340	3,108965E+22	3,109132E+22	5,860715E+21	5,860766E+21	6,218097E+22	1,172148E+22	7,390245E+22
341	3,109114E+22	3,108977E+22	5,860329E+21	5,860779E+21	6,218091E+22	1,172111E+22	7,390202E+22
342	3,109012E+22	3,109080E+22	5,860800E+21	5,860044E+21	6,218092E+22	1,172084E+22	7,390176E+22
343	3,109128E+22	3,109130E+22	5,860044E+21	5,860543E+21	6,218258E+22	1,172059E+22	7,390316E+22
344	3,109230E+22	3,109074E+22	5,859881E+21	5,859892E+21	6,218305E+22	1,171977E+22	7,390282E+22
345	3,109109E+22	3,109290E+22	5,860143E+21	5,859495E+21	6,218398E+22	1,171964E+22	7,390362E+22
346	3,109276E+22	3,109276E+22	5,859259E+21	5,859906E+21	6,218552E+22	1,171917E+22	7,390469E+22
347	3,109281E+22	3,109244E+22	5,859539E+21	5,859125E+21	6,218525E+22	1,171866E+22	7,390392E+22
348	3,109211E+22	3,109365E+22	5,859614E+21	5,859289E+21	6,218576E+22	1,171890E+22	7,390466E+22
349	3,109384E+22	3,109252E+22	5,859091E+21	5,859567E+21	6,218635E+22	1,171866E+22	7,390501E+22
350	3,109254E+22	3,109290E+22	5,859734E+21	5,859084E+21	6,218544E+22	1,171882E+22	7,390426E+22
351	3,109231E+22	3,109311E+22	5,859493E+21	5,859944E+21	6,218542E+22	1,171944E+22	7,390486E+22
352	3,109298E+22	3,109137E+22	5,859526E+21	5,859976E+21	6,218435E+22	1,171950E+22	7,390385E+22
353	3,109095E+22	3,109208E+22	5,860448E+21	5,859837E+21	6,218303E+22	1,172029E+22	7,390331E+22
354	3,109158E+22	3,109140E+22	5,860115E+21	5,860743E+21	6,218298E+22	1,172086E+22	7,390384E+22
355	3,109120E+22	3,108990E+22	5,860696E+21	5,860516E+21	6,218110E+22	1,172121E+22	7,390231E+22
356	3,108892E+22	3,109065E+22	5,861331E+21	5,860826E+21	6,217958E+22	1,172216E+22	7,390174E+22
357	3,108988E+22	3,108929E+22	5,860889E+21	5,861556E+21	6,217918E+22	1,172245E+22	7,390162E+22
358	3,108862E+22	3,108879E+22	5,861535E+21	5,861030E+21	6,217741E+22	1,172257E+22	7,389998E+22
359	3,108821E+22	3,108934E+22	5,861363E+21	5,861496E+21	6,217755E+22	1,172286E+22	7,390041E+22
360	3,109001E+22	3,108807E+22	5,860917E+21	5,861391E+21	6,217808E+22	1,172231E+22	7,390039E+22
361	3,108876E+22	3,108941E+22	5,861447E+21	5,860650E+21	6,217817E+22	1,172210E+22	7,390027E+22
362	3,108979E+22	3,109029E+22	5,860705E+21	5,861130E+21	6,218009E+22	1,172183E+22	7,390192E+22
363	3,109066E+22	3,108968E+22	5,860522E+21	5,860550E+21	6,218034E+22	1,172107E+22	7,390141E+22
364	3,108922E+22	3,109125E+22	5,860837E+21	5,860157E+21	6,218047E+22	1,172099E+22	7,390146E+22
365	3,109125E+22	3,109099E+22	5,859998E+21	5,860564E+21	6,218224E+22	1,172056E+22	7,390280E+22
366	3,109125E+22	3,109072E+22	5,860264E+21	5,859791E+21	6,218197E+22	1,172006E+22	7,390203E+22
367	3,109066E+22	3,109184E+22	5,860267E+21	5,860049E+21	6,218250E+22	1,172032E+22	7,390281E+22
368	3,109224E+22	3,109087E+22	5,859704E+21	5,860347E+21	6,218311E+22	1,172005E+22	7,390316E+22
369	3,109069E+22	3,109126E+22	5,860438E+21	5,859898E+21	6,218194E+22	1,172034E+22	7,390228E+22
370	3,109063E+22	3,109155E+22	5,860276E+21	5,860673E+21	6,218219E+22	1,172095E+22	7,390314E+22
371	3,109137E+22	3,108980E+22	5,860351E+21	5,860727E+21	6,218117E+22	1,172108E+22	7,390225E+22
372	3,108910E+22	3,109015E+22	5,861359E+21	5,860609E+21	6,217925E+22	1,172197E+22	7,390121E+22
373	3,108973E+22	3,108951E+22	5,861063E+21	5,861579E+21	6,217924E+22	1,172264E+22	7,390188E+22
374	3,108898E+22	3,108813E+22	5,861576E+21	5,861416E+21	6,217711E+22	1,172299E+22	7,390010E+22
375	3,108692E+22	3,108857E+22	5,862079E+21	5,861756E+21	6,217549E+22	1,172383E+22	7,389932E+22
376	3,108816E+22	3,108722E+22	5,861568E+21	5,862347E+21	6,217538E+22	1,172391E+22	7,389929E+22
377	3,108710E+22	3,108694E+22	5,862232E+21	5,861724E+21	6,217404E+22	1,172396E+22	7,389799E+22
378	3,108696E+22	3,108787E+22	5,862071E+21	5,862060E+21	6,217484E+22	1,172413E+22	7,389897E+22
379	3,108858E+22	3,108697E+22	5,861594E+21	5,862000E+21	6,217555E+22	1,172359E+22	7,389915E+22
380	3,108692E+22	3,108809E+22	5,862126E+21	5,861310E+21	6,217501E+22	1,172344E+22	7,389844E+22
381	3,108805E+22	3,108882E+22	5,861420E+21	5,861800E+21	6,217687E+22	1,172322E+22	7,390008E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
382	3,108890E+22	3,108817E+22	5,861203E+21	5,861202E+21	6,217707E+22	1,172241E+22	7,389948E+22
383	3,108787E+22	3,108939E+22	5,861434E+21	5,860830E+21	6,217727E+22	1,172226E+22	7,389953E+22
384	3,109000E+22	3,108923E+22	5,860580E+21	5,861197E+21	6,217924E+22	1,172178E+22	7,390102E+22
385	3,108979E+22	3,108916E+22	5,860901E+21	5,860507E+21	6,217895E+22	1,172141E+22	7,390036E+22
386	3,108909E+22	3,109048E+22	5,860947E+21	5,860773E+21	6,217957E+22	1,172172E+22	7,390129E+22
387	3,109056E+22	3,108948E+22	5,860422E+21	5,861135E+21	6,218004E+22	1,172156E+22	7,390160E+22
388	3,108885E+22	3,108937E+22	5,861254E+21	5,860674E+21	6,217822E+22	1,172193E+22	7,390015E+22
389	3,108901E+22	3,108964E+22	5,861191E+21	5,861421E+21	6,217865E+22	1,172261E+22	7,390126E+22
390	3,108952E+22	3,108804E+22	5,861269E+21	5,861504E+21	6,217756E+22	1,172277E+22	7,390033E+22
391	3,108719E+22	3,108819E+22	5,862192E+21	5,861499E+21	6,217538E+22	1,172369E+22	7,389907E+22
392	3,108765E+22	3,108764E+22	5,861831E+21	5,862457E+21	6,217529E+22	1,172429E+22	7,389958E+22
393	3,108684E+22	3,108619E+22	5,862362E+21	5,862299E+21	6,217303E+22	1,172466E+22	7,389769E+22
394	3,108515E+22	3,108676E+22	5,862852E+21	5,862504E+21	6,217191E+22	1,172536E+22	7,389726E+22
395	3,108668E+22	3,108558E+22	5,862301E+21	5,863049E+21	6,217226E+22	1,172535E+22	7,389761E+22
396	3,108551E+22	3,108515E+22	5,862992E+21	5,862402E+21	6,217066E+22	1,172539E+22	7,389605E+22
397	3,108544E+22	3,108639E+22	5,862841E+21	5,862749E+21	6,217183E+22	1,172559E+22	7,389742E+22
398	3,108672E+22	3,108569E+22	5,862299E+21	5,862713E+21	6,217242E+22	1,172501E+22	7,389743E+22
399	3,108527E+22	3,108640E+22	5,862731E+21	5,862054E+21	6,217167E+22	1,172479E+22	7,389646E+22
400	3,108659E+22	3,108709E+22	5,861987E+21	5,862411E+21	6,217368E+22	1,172440E+22	7,389808E+22
401	3,108753E+22	3,108651E+22	5,861808E+21	5,861799E+21	6,217404E+22	1,172361E+22	7,389765E+22
402	3,108667E+22	3,108796E+22	5,862065E+21	5,861386E+21	6,217463E+22	1,172345E+22	7,389809E+22
403	3,108858E+22	3,108804E+22	5,861214E+21	5,861851E+21	6,217661E+22	1,172307E+22	7,389968E+22
404	3,108797E+22	3,108765E+22	5,861603E+21	5,861250E+21	6,217562E+22	1,172285E+22	7,389847E+22
405	3,108739E+22	3,108887E+22	5,861737E+21	5,861525E+21	6,217626E+22	1,172326E+22	7,389952E+22
406	3,108875E+22	3,108787E+22	5,861244E+21	5,861883E+21	6,217662E+22	1,172313E+22	7,389975E+22
407	3,108732E+22	3,108737E+22	5,862044E+21	5,861486E+21	6,217469E+22	1,172353E+22	7,389822E+22
408	3,108737E+22	3,108772E+22	5,861995E+21	5,862191E+21	6,217508E+22	1,172419E+22	7,389927E+22
409	3,108754E+22	3,108629E+22	5,862098E+21	5,862390E+21	6,217383E+22	1,172449E+22	7,389832E+22
410	3,108518E+22	3,108644E+22	5,862999E+21	5,862377E+21	6,217162E+22	1,172538E+22	7,389699E+22
411	3,108561E+22	3,108583E+22	5,862621E+21	5,863328E+21	6,217145E+22	1,172595E+22	7,389740E+22
412	3,108490E+22	3,108404E+22	5,863178E+21	5,863109E+21	6,216894E+22	1,172629E+22	7,389523E+22
413	3,108363E+22	3,108476E+22	5,863691E+21	5,863221E+21	6,216840E+22	1,172691E+22	7,389531E+22
414	3,108504E+22	3,108401E+22	5,863111E+21	5,863741E+21	6,216905E+22	1,172685E+22	7,389590E+22
415	3,108394E+22	3,108351E+22	5,863667E+21	5,863161E+21	6,216745E+22	1,172683E+22	7,389428E+22
416	3,108374E+22	3,108489E+22	5,863456E+21	5,863424E+21	6,216863E+22	1,172688E+22	7,389551E+22
417	3,108498E+22	3,108423E+22	5,862919E+21	5,863380E+21	6,216921E+22	1,172630E+22	7,389551E+22
418	3,108386E+22	3,108492E+22	5,863341E+21	5,862622E+21	6,216877E+22	1,172596E+22	7,389474E+22
419	3,108529E+22	3,108571E+22	5,862602E+21	5,862967E+21	6,217100E+22	1,172557E+22	7,389657E+22
420	3,108605E+22	3,108489E+22	5,862493E+21	5,862426E+21	6,217094E+22	1,172492E+22	7,389586E+22
421	3,108520E+22	3,108651E+22	5,862785E+21	5,862089E+21	6,217171E+22	1,172487E+22	7,389659E+22
422	3,108678E+22	3,108668E+22	5,861940E+21	5,862621E+21	6,217346E+22	1,172456E+22	7,389803E+22
423	3,108637E+22	3,108580E+22	5,862274E+21	5,862078E+21	6,217217E+22	1,172435E+22	7,389652E+22
424	3,108593E+22	3,108701E+22	5,862431E+21	5,862235E+21	6,217293E+22	1,172467E+22	7,389760E+22
425	3,108719E+22	3,108609E+22	5,862015E+21	5,862610E+21	6,217328E+22	1,172463E+22	7,389790E+22
426	3,108569E+22	3,108573E+22	5,862856E+21	5,862227E+21	6,217142E+22	1,172508E+22	7,389651E+22
427	3,108540E+22	3,108621E+22	5,862794E+21	5,863008E+21	6,217161E+22	1,172580E+22	7,389741E+22
428	3,108523E+22	3,108432E+22	5,862958E+21	5,863289E+21	6,216955E+22	1,172625E+22	7,389580E+22
429	3,108317E+22	3,108440E+22	5,863877E+21	5,863237E+21	6,216757E+22	1,172711E+22	7,389468E+22
430	3,108371E+22	3,108389E+22	5,863480E+21	5,864127E+21	6,216760E+22	1,172761E+22	7,389521E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
431	3,108342E+22	3,108190E+22	5,863938E+21	5,863915E+21	6,216532E+22	1,172785E+22	7,389317E+22
432	3,108220E+22	3,108297E+22	5,864408E+21	5,863932E+21	6,216517E+22	1,172834E+22	7,389351E+22
433	3,108330E+22	3,108258E+22	5,863821E+21	5,864500E+21	6,216588E+22	1,172832E+22	7,389420E+22
434	3,108224E+22	3,108217E+22	5,864332E+21	5,863874E+21	6,216441E+22	1,172821E+22	7,389261E+22
435	3,108205E+22	3,108350E+22	5,864096E+21	5,864062E+21	6,216555E+22	1,172816E+22	7,389371E+22
436	3,108331E+22	3,108249E+22	5,863611E+21	5,863988E+21	6,216579E+22	1,172760E+22	7,389339E+22
437	3,108252E+22	3,108326E+22	5,864050E+21	5,863199E+21	6,216579E+22	1,172725E+22	7,389304E+22
438	3,108374E+22	3,108433E+22	5,863310E+21	5,863593E+21	6,216808E+22	1,172690E+22	7,389498E+22
439	3,108457E+22	3,108332E+22	5,863093E+21	5,863190E+21	6,216789E+22	1,172628E+22	7,389417E+22
440	3,108368E+22	3,108494E+22	5,863370E+21	5,862802E+21	6,216862E+22	1,172617E+22	7,389479E+22
441	3,108519E+22	3,108516E+22	5,862592E+21	5,863341E+21	6,217035E+22	1,172593E+22	7,389628E+22
442	3,108504E+22	3,108423E+22	5,862943E+21	5,862737E+21	6,216927E+22	1,172568E+22	7,389495E+22
443	3,108446E+22	3,108547E+22	5,863166E+21	5,862879E+21	6,216993E+22	1,172604E+22	7,389597E+22
444	3,108532E+22	3,108434E+22	5,862865E+21	5,863374E+21	6,216967E+22	1,172624E+22	7,389590E+22
445	3,108372E+22	3,108399E+22	5,863744E+21	5,863086E+21	6,216771E+22	1,172683E+22	7,389454E+22
446	3,108313E+22	3,108441E+22	5,863692E+21	5,863920E+21	6,216754E+22	1,172761E+22	7,389515E+22
447	3,108331E+22	3,108200E+22	5,863763E+21	5,864234E+21	6,216531E+22	1,172800E+22	7,389331E+22
448	3,108156E+22	3,108216E+22	5,864636E+21	5,864028E+21	6,216371E+22	1,172866E+22	7,389238E+22
449	3,108213E+22	3,108200E+22	5,864270E+21	5,864891E+21	6,216413E+22	1,172916E+22	7,389329E+22
450	3,108189E+22	3,108036E+22	5,864688E+21	5,864642E+21	6,216225E+22	1,172933E+22	7,389158E+22
451	3,108041E+22	3,108171E+22	5,865126E+21	5,864643E+21	6,216212E+22	1,172977E+22	7,389189E+22
452	3,108122E+22	3,108102E+22	5,864598E+21	5,865233E+21	6,216224E+22	1,172983E+22	7,389207E+22
453	3,108043E+22	3,108057E+22	5,865102E+21	5,864556E+21	6,216100E+22	1,172966E+22	7,389066E+22
454	3,108033E+22	3,108192E+22	5,864837E+21	5,864698E+21	6,216224E+22	1,172953E+22	7,389178E+22
455	3,108194E+22	3,108058E+22	5,864250E+21	5,864679E+21	6,216251E+22	1,172893E+22	7,389144E+22
456	3,108128E+22	3,108161E+22	5,864622E+21	5,863858E+21	6,216289E+22	1,172848E+22	7,389137E+22
457	3,108227E+22	3,108294E+22	5,863895E+21	5,864321E+21	6,216521E+22	1,172822E+22	7,389342E+22
458	3,108315E+22	3,108196E+22	5,863661E+21	5,863889E+21	6,216511E+22	1,172755E+22	7,389266E+22
459	3,108231E+22	3,108356E+22	5,863965E+21	5,863414E+21	6,216587E+22	1,172738E+22	7,389325E+22
460	3,108363E+22	3,108347E+22	5,863340E+21	5,863947E+21	6,216709E+22	1,172729E+22	7,389438E+22
461	3,108353E+22	3,108265E+22	5,863774E+21	5,863381E+21	6,216618E+22	1,172716E+22	7,389334E+22
462	3,108252E+22	3,108399E+22	5,864042E+21	5,863624E+21	6,216651E+22	1,172767E+22	7,389417E+22
463	3,108327E+22	3,108242E+22	5,863667E+21	5,864292E+21	6,216570E+22	1,172796E+22	7,389365E+22
464	3,108175E+22	3,108193E+22	5,864509E+21	5,863975E+21	6,216368E+22	1,172848E+22	7,389216E+22
465	3,108121E+22	3,108237E+22	5,864485E+21	5,864794E+21	6,216357E+22	1,172928E+22	7,389285E+22
466	3,108176E+22	3,108006E+22	5,864524E+21	5,865030E+21	6,216182E+22	1,172955E+22	7,389138E+22
467	3,108008E+22	3,108045E+22	5,865395E+21	5,864751E+21	6,216053E+22	1,173015E+22	7,389068E+22
468	3,108028E+22	3,108033E+22	5,865134E+21	5,865673E+21	6,216062E+22	1,173081E+22	7,389142E+22
469	3,107995E+22	3,107891E+22	5,865539E+21	5,865454E+21	6,215886E+22	1,173099E+22	7,388986E+22
470	3,107826E+22	3,108020E+22	5,865960E+21	5,865436E+21	6,215846E+22	1,173140E+22	7,388986E+22
471	3,107944E+22	3,107899E+22	5,865317E+21	5,866015E+21	6,215843E+22	1,173133E+22	7,388976E+22
472	3,107902E+22	3,107855E+22	5,865739E+21	5,865199E+21	6,215756E+22	1,173094E+22	7,388850E+22
473	3,107893E+22	3,108022E+22	5,865474E+21	5,865334E+21	6,215915E+22	1,173081E+22	7,388996E+22
474	3,108067E+22	3,107920E+22	5,864804E+21	5,865315E+21	6,215987E+22	1,173012E+22	7,388999E+22
475	3,107987E+22	3,108043E+22	5,865143E+21	5,864470E+21	6,216029E+22	1,172961E+22	7,388991E+22
476	3,108062E+22	3,108155E+22	5,864553E+21	5,864954E+21	6,216217E+22	1,172951E+22	7,389167E+22
477	3,108167E+22	3,108061E+22	5,864373E+21	5,864486E+21	6,216227E+22	1,172886E+22	7,389113E+22
478	3,108072E+22	3,108215E+22	5,864751E+21	5,864021E+21	6,216287E+22	1,172877E+22	7,389164E+22
479	3,108207E+22	3,108163E+22	5,864109E+21	5,864672E+21	6,216370E+22	1,172878E+22	7,389248E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude °	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
480	3,108183E+22	3,108085E+22	5,864526E+21	5,864184E+21	6,216269E+22	1,172871E+22	7,389140E+22
481	3,108049E+22	3,108223E+22	5,864819E+21	5,864544E+21	6,216272E+22	1,172936E+22	7,389208E+22
482	3,108138E+22	3,108052E+22	5,864405E+21	5,865205E+21	6,216191E+22	1,172961E+22	7,389152E+22
483	3,108007E+22	3,107999E+22	5,865229E+21	5,864774E+21	6,216006E+22	1,173000E+22	7,389007E+22
484	3,107949E+22	3,108031E+22	5,865343E+21	5,865563E+21	6,215979E+22	1,173091E+22	7,389070E+22
485	3,108009E+22	3,107838E+22	5,865424E+21	5,865785E+21	6,215847E+22	1,173121E+22	7,388968E+22
486	3,107810E+22	3,107900E+22	5,866306E+21	5,865560E+21	6,215710E+22	1,173187E+22	7,388897E+22
487	3,107820E+22	3,107849E+22	5,865968E+21	5,866554E+21	6,215669E+22	1,173252E+22	7,388922E+22
488	3,107803E+22	3,107704E+22	5,866294E+21	5,866261E+21	6,215507E+22	1,173256E+22	7,388763E+22
489	3,107646E+22	3,107832E+22	5,866674E+21	5,866178E+21	6,215478E+22	1,173285E+22	7,388763E+22
490	3,107800E+22	3,107718E+22	5,865946E+21	5,866665E+21	6,215518E+22	1,173261E+22	7,388779E+22
491	3,107778E+22	3,107701E+22	5,866303E+21	5,865773E+21	6,215479E+22	1,173208E+22	7,388686E+22
492	3,107742E+22	3,107875E+22	5,866137E+21	5,865975E+21	6,215616E+22	1,173211E+22	7,388828E+22
493	3,107909E+22	3,107806E+22	5,865478E+21	5,865975E+21	6,215714E+22	1,173145E+22	7,388860E+22
494	3,107822E+22	3,107919E+22	5,865841E+21	5,865128E+21	6,215741E+22	1,173097E+22	7,388838E+22
495	3,107913E+22	3,107980E+22	5,865230E+21	5,865614E+21	6,215893E+22	1,173084E+22	7,388977E+22
496	3,108034E+22	3,107888E+22	5,865039E+21	5,865104E+21	6,215922E+22	1,173014E+22	7,388937E+22
497	3,107914E+22	3,108053E+22	5,865473E+21	5,864722E+21	6,215967E+22	1,173020E+22	7,388987E+22
498	3,108036E+22	3,108010E+22	5,864795E+21	5,865452E+21	6,216046E+22	1,173025E+22	7,389071E+22
499	3,108002E+22	3,107928E+22	5,865190E+21	5,864984E+21	6,215929E+22	1,173017E+22	7,388947E+22
500	3,107851E+22	3,108031E+22	5,865629E+21	5,865381E+21	6,215883E+22	1,173101E+22	7,388984E+22
501	3,107964E+22	3,107872E+22	5,865249E+21	5,865992E+21	6,215836E+22	1,173124E+22	7,388960E+22
502	3,107837E+22	3,107821E+22	5,866115E+21	5,865552E+21	6,215658E+22	1,173167E+22	7,388824E+22
503	3,107782E+22	3,107828E+22	5,866217E+21	5,866408E+21	6,215610E+22	1,173262E+22	7,388872E+22
504	3,107829E+22	3,107656E+22	5,866257E+21	5,866652E+21	6,215485E+22	1,173291E+22	7,388776E+22
505	3,107597E+22	3,107726E+22	5,867138E+21	5,866469E+21	6,215323E+22	1,173361E+22	7,388684E+22
506	3,107629E+22	3,107664E+22	5,866709E+21	5,867376E+21	6,215293E+22	1,173409E+22	7,388701E+22
507	3,107638E+22	3,107515E+22	5,866959E+21	5,866929E+21	6,215153E+22	1,173389E+22	7,388542E+22
508	3,107484E+22	3,107640E+22	5,867421E+21	5,866813E+21	6,215124E+22	1,173423E+22	7,388547E+22
509	3,107646E+22	3,107575E+22	5,866679E+21	5,867277E+21	6,215221E+22	1,173396E+22	7,388616E+22
510	3,107609E+22	3,107581E+22	5,867008E+21	5,866447E+21	6,215191E+22	1,173346E+22	7,388536E+22
511	3,107576E+22	3,107719E+22	5,866793E+21	5,866706E+21	6,215294E+22	1,173350E+22	7,388644E+22
512	3,107759E+22	3,107651E+22	5,866101E+21	5,866642E+21	6,215410E+22	1,173274E+22	7,388684E+22
513	3,107676E+22	3,107765E+22	5,866482E+21	5,865779E+21	6,215441E+22	1,173226E+22	7,388667E+22
514	3,107785E+22	3,107821E+22	5,865846E+21	5,866225E+21	6,215606E+22	1,173207E+22	7,388814E+22
515	3,107900E+22	3,107741E+22	5,865647E+21	5,865730E+21	6,215641E+22	1,173138E+22	7,388779E+22
516	3,107737E+22	3,107893E+22	5,866215E+21	5,865496E+21	6,215630E+22	1,173171E+22	7,388802E+22
517	3,107842E+22	3,107863E+22	5,865580E+21	5,866265E+21	6,215705E+22	1,173184E+22	7,388890E+22
518	3,107816E+22	3,107757E+22	5,866007E+21	5,865817E+21	6,215573E+22	1,173182E+22	7,388756E+22
519	3,107687E+22	3,107806E+22	5,866447E+21	5,866197E+21	6,215493E+22	1,173264E+22	7,388757E+22
520	3,107813E+22	3,107669E+22	5,866073E+21	5,866763E+21	6,215482E+22	1,173284E+22	7,388766E+22
521	3,107663E+22	3,107642E+22	5,866960E+21	5,866381E+21	6,215305E+22	1,173334E+22	7,388639E+22
522	3,107588E+22	3,107661E+22	5,867014E+21	5,867257E+21	6,215249E+22	1,173427E+22	7,388676E+22
523	3,107629E+22	3,107494E+22	5,867004E+21	5,867457E+21	6,215123E+22	1,173446E+22	7,388569E+22
524	3,107388E+22	3,107534E+22	5,867977E+21	5,867267E+21	6,214922E+22	1,173524E+22	7,388447E+22
525	3,107440E+22	3,107492E+22	5,867535E+21	5,868069E+21	6,214931E+22	1,173560E+22	7,388492E+22
526	3,107470E+22	3,107346E+22	5,867757E+21	5,867623E+21	6,214816E+22	1,173538E+22	7,388354E+22
527	3,107327E+22	3,107447E+22	5,868151E+21	5,867559E+21	6,214774E+22	1,173571E+22	7,388345E+22
528	3,107492E+22	3,107418E+22	5,867339E+21	5,868036E+21	6,214909E+22	1,173537E+22	7,388447E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
529	3,107445E+22	3,107435E+22	5,867635E+21	5,867215E+21	6,214880E+22	1,173485E+22	7,388365E+22
530	3,107439E+22	3,107564E+22	5,867360E+21	5,867368E+21	6,215003E+22	1,173473E+22	7,388476E+22
531	3,107641E+22	3,107503E+22	5,866635E+21	5,867158E+21	6,215144E+22	1,173379E+22	7,388523E+22
532	3,107540E+22	3,107609E+22	5,867163E+21	5,866344E+21	6,215149E+22	1,173351E+22	7,388499E+22
533	3,107625E+22	3,107700E+22	5,866576E+21	5,866817E+21	6,215326E+22	1,173339E+22	7,388665E+22
534	3,107716E+22	3,107613E+22	5,866404E+21	5,866471E+21	6,215329E+22	1,173288E+22	7,388617E+22
535	3,107551E+22	3,107706E+22	5,866968E+21	5,866331E+21	6,215257E+22	1,173330E+22	7,388587E+22
536	3,107676E+22	3,107667E+22	5,866334E+21	5,867067E+21	6,215343E+22	1,173340E+22	7,388683E+22
537	3,107651E+22	3,107563E+22	5,866781E+21	5,866614E+21	6,215214E+22	1,173339E+22	7,388554E+22
538	3,107543E+22	3,107616E+22	5,867192E+21	5,866961E+21	6,215158E+22	1,173415E+22	7,388574E+22
539	3,107652E+22	3,107502E+22	5,866824E+21	5,867517E+21	6,215155E+22	1,173434E+22	7,388589E+22
540	3,107455E+22	3,107474E+22	5,867843E+21	5,867271E+21	6,214929E+22	1,173511E+22	7,388440E+22
541	3,107363E+22	3,107505E+22	5,867918E+21	5,868105E+21	6,214868E+22	1,173602E+22	7,388470E+22
542	3,107419E+22	3,107312E+22	5,867900E+21	5,868302E+21	6,214731E+22	1,173620E+22	7,388351E+22
543	3,107206E+22	3,107301E+22	5,868806E+21	5,868072E+21	6,214506E+22	1,173688E+22	7,388194E+22
544	3,107280E+22	3,107285E+22	5,868306E+21	5,868809E+21	6,214564E+22	1,173711E+22	7,388276E+22
545	3,107303E+22	3,107176E+22	5,868470E+21	5,868394E+21	6,214479E+22	1,173686E+22	7,388166E+22
546	3,107173E+22	3,107293E+22	5,868748E+21	5,868308E+21	6,214466E+22	1,173706E+22	7,388172E+22
547	3,107346E+22	3,107281E+22	5,867890E+21	5,868669E+21	6,214628E+22	1,173656E+22	7,388284E+22
548	3,107297E+22	3,107289E+22	5,868278E+21	5,867829E+21	6,214586E+22	1,173611E+22	7,388197E+22
549	3,107296E+22	3,107441E+22	5,868038E+21	5,867859E+21	6,214737E+22	1,173590E+22	7,388327E+22
550	3,107502E+22	3,107377E+22	5,867349E+21	5,867720E+21	6,214879E+22	1,173507E+22	7,388386E+22
551	3,107384E+22	3,107437E+22	5,867877E+21	5,867041E+21	6,214820E+22	1,173492E+22	7,388312E+22
552	3,107450E+22	3,107542E+22	5,867285E+21	5,867599E+21	6,214992E+22	1,173488E+22	7,388480E+22
553	3,107533E+22	3,107443E+22	5,867108E+21	5,867318E+21	6,214975E+22	1,173443E+22	7,388418E+22
554	3,107401E+22	3,107507E+22	5,867616E+21	5,867115E+21	6,214908E+22	1,173473E+22	7,388381E+22
555	3,107543E+22	3,107484E+22	5,866987E+21	5,867727E+21	6,215027E+22	1,173471E+22	7,388498E+22
556	3,107496E+22	3,107386E+22	5,867580E+21	5,867345E+21	6,214882E+22	1,173493E+22	7,388375E+22
557	3,107353E+22	3,107480E+22	5,868060E+21	5,867696E+21	6,214833E+22	1,173576E+22	7,388408E+22
558	3,107439E+22	3,107360E+22	5,867731E+21	5,868382E+21	6,214799E+22	1,173611E+22	7,388410E+22
559	3,107233E+22	3,107265E+22	5,868746E+21	5,868200E+21	6,214498E+22	1,173695E+22	7,388193E+22
560	3,107161E+22	3,107293E+22	5,868784E+21	5,868964E+21	6,214454E+22	1,173775E+22	7,388229E+22
561	3,107233E+22	3,107099E+22	5,868720E+21	5,869132E+21	6,214332E+22	1,173785E+22	7,388117E+22
562	3,107059E+22	3,107091E+22	5,869503E+21	5,868850E+21	6,214150E+22	1,173835E+22	7,387985E+22
563	3,107136E+22	3,107117E+22	5,868936E+21	5,869514E+21	6,214253E+22	1,173845E+22	7,388098E+22
564	3,107133E+22	3,107029E+22	5,869162E+21	5,869165E+21	6,214162E+22	1,173833E+22	7,387995E+22
565	3,107005E+22	3,107173E+22	5,869448E+21	5,868952E+21	6,214178E+22	1,173840E+22	7,388018E+22
566	3,107195E+22	3,107148E+22	5,868614E+21	5,869265E+21	6,214344E+22	1,173788E+22	7,388131E+22
567	3,107153E+22	3,107114E+22	5,868985E+21	5,868420E+21	6,214267E+22	1,173741E+22	7,388008E+22
568	3,107151E+22	3,107283E+22	5,868736E+21	5,868447E+21	6,214434E+22	1,173718E+22	7,388152E+22
569	3,107324E+22	3,107231E+22	5,868035E+21	5,868427E+21	6,214555E+22	1,173646E+22	7,388201E+22
570	3,107219E+22	3,107275E+22	5,868459E+21	5,867816E+21	6,214494E+22	1,173628E+22	7,388121E+22
571	3,107296E+22	3,107376E+22	5,867860E+21	5,868295E+21	6,214671E+22	1,173616E+22	7,388287E+22
572	3,107377E+22	3,107271E+22	5,867797E+21	5,868050E+21	6,214647E+22	1,173585E+22	7,388232E+22
573	3,107253E+22	3,107359E+22	5,868358E+21	5,867746E+21	6,214612E+22	1,173610E+22	7,388222E+22
574	3,107391E+22	3,107335E+22	5,867821E+21	5,868442E+21	6,214726E+22	1,173626E+22	7,388352E+22
575	3,107310E+22	3,107204E+22	5,868445E+21	5,868212E+21	6,214514E+22	1,173666E+22	7,388180E+22
576	3,107142E+22	3,107302E+22	5,868945E+21	5,868613E+21	6,214444E+22	1,173756E+22	7,388200E+22
577	3,107217E+22	3,107164E+22	5,868623E+21	5,869327E+21	6,214381E+22	1,173795E+22	7,388176E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
578	3,107056E+22	3,107035E+22	5,869523E+21	5,869071E+21	6,214090E+22	1,173859E+22	7,387950E+22
579	3,107006E+22	3,107080E+22	5,869508E+21	5,869676E+21	6,214085E+22	1,173918E+22	7,388004E+22
580	3,107066E+22	3,106913E+22	5,869502E+21	5,869896E+21	6,213978E+22	1,173940E+22	7,387918E+22
581	3,106879E+22	3,106957E+22	5,870260E+21	5,869552E+21	6,213836E+22	1,173981E+22	7,387817E+22
582	3,106959E+22	3,106992E+22	5,869712E+21	5,870262E+21	6,213951E+22	1,173997E+22	7,387948E+22
583	3,106956E+22	3,106860E+22	5,869913E+21	5,869897E+21	6,213815E+22	1,173981E+22	7,387796E+22
584	3,106845E+22	3,107012E+22	5,870175E+21	5,869580E+21	6,213857E+22	1,173976E+22	7,387832E+22
585	3,107039E+22	3,106990E+22	5,869314E+21	5,869875E+21	6,214029E+22	1,173919E+22	7,387948E+22
586	3,107018E+22	3,106941E+22	5,869573E+21	5,869070E+21	6,213959E+22	1,173864E+22	7,387823E+22
587	3,107003E+22	3,107135E+22	5,869279E+21	5,869091E+21	6,214138E+22	1,173837E+22	7,387975E+22
588	3,107151E+22	3,107085E+22	5,868657E+21	5,869200E+21	6,214236E+22	1,173786E+22	7,388021E+22
589	3,107058E+22	3,107136E+22	5,869100E+21	5,868492E+21	6,214194E+22	1,173759E+22	7,387953E+22
590	3,107161E+22	3,107221E+22	5,868576E+21	5,868954E+21	6,214383E+22	1,173753E+22	7,388136E+22
591	3,107235E+22	3,107082E+22	5,868552E+21	5,868733E+21	6,214317E+22	1,173729E+22	7,388045E+22
592	3,107098E+22	3,107194E+22	5,869169E+21	5,868459E+21	6,214291E+22	1,173763E+22	7,388054E+22
593	3,107190E+22	3,107180E+22	5,868678E+21	5,869271E+21	6,214369E+22	1,173795E+22	7,388164E+22
594	3,107113E+22	3,107018E+22	5,869230E+21	5,869131E+21	6,214130E+22	1,173836E+22	7,387966E+22
595	3,106950E+22	3,107106E+22	5,869710E+21	5,869435E+21	6,214056E+22	1,173914E+22	7,387971E+22
596	3,107021E+22	3,106961E+22	5,869462E+21	5,870172E+21	6,213983E+22	1,173963E+22	7,387946E+22
597	3,106881E+22	3,106854E+22	5,870346E+21	5,869799E+21	6,213735E+22	1,174015E+22	7,387749E+22
598	3,106841E+22	3,106906E+22	5,870366E+21	5,870447E+21	6,213747E+22	1,174081E+22	7,387828E+22
599	3,106874E+22	3,106732E+22	5,870334E+21	5,870757E+21	6,213606E+22	1,174109E+22	7,387715E+22
600	3,106690E+22	3,106794E+22	5,871052E+21	5,870390E+21	6,213484E+22	1,174144E+22	7,387628E+22
601	3,106767E+22	3,106823E+22	5,870504E+21	5,871040E+21	6,213590E+22	1,174154E+22	7,387744E+22
602	3,106810E+22	3,106672E+22	5,870553E+21	5,870586E+21	6,213483E+22	1,174114E+22	7,387596E+22
603	3,106714E+22	3,106841E+22	5,870753E+21	5,870117E+21	6,213556E+22	1,174087E+22	7,387643E+22
604	3,106881E+22	3,106844E+22	5,869952E+21	5,870498E+21	6,213725E+22	1,174045E+22	7,387770E+22
605	3,106851E+22	3,106826E+22	5,870183E+21	5,869684E+21	6,213677E+22	1,173987E+22	7,387663E+22
606	3,106845E+22	3,107005E+22	5,869939E+21	5,869777E+21	6,213850E+22	1,173972E+22	7,387822E+22
607	3,106990E+22	3,106915E+22	5,869339E+21	5,869913E+21	6,213905E+22	1,173925E+22	7,387830E+22
608	3,106921E+22	3,106971E+22	5,869794E+21	5,869146E+21	6,213891E+22	1,173894E+22	7,387785E+22
609	3,107017E+22	3,107059E+22	5,869342E+21	5,869618E+21	6,214075E+22	1,173896E+22	7,387971E+22
610	3,107094E+22	3,106909E+22	5,869253E+21	5,869490E+21	6,214003E+22	1,173874E+22	7,387877E+22
611	3,106926E+22	3,107036E+22	5,869882E+21	5,869238E+21	6,213961E+22	1,173912E+22	7,387873E+22
612	3,106978E+22	3,107014E+22	5,869502E+21	5,870171E+21	6,213993E+22	1,173967E+22	7,387960E+22
613	3,106910E+22	3,106844E+22	5,870071E+21	5,869945E+21	6,213754E+22	1,174002E+22	7,387756E+22
614	3,106777E+22	3,106912E+22	5,870592E+21	5,870233E+21	6,213689E+22	1,174082E+22	7,387771E+22
615	3,106838E+22	3,106740E+22	5,870344E+21	5,870988E+21	6,213579E+22	1,174133E+22	7,387712E+22
616	3,106696E+22	3,106664E+22	5,871201E+21	5,870622E+21	6,213360E+22	1,174182E+22	7,387542E+22
617	3,106637E+22	3,106737E+22	5,871215E+21	5,871312E+21	6,213374E+22	1,174253E+22	7,387626E+22
618	3,106691E+22	3,106547E+22	5,871054E+21	5,871624E+21	6,213238E+22	1,174268E+22	7,387506E+22
619	3,106528E+22	3,106620E+22	5,871712E+21	5,871087E+21	6,213148E+22	1,174280E+22	7,387428E+22
620	3,106605E+22	3,106658E+22	5,871208E+21	5,871695E+21	6,213264E+22	1,174290E+22	7,387554E+22
621	3,106662E+22	3,106532E+22	5,871219E+21	5,871132E+21	6,213194E+22	1,174235E+22	7,387429E+22
622	3,106572E+22	3,106704E+22	5,871434E+21	5,870734E+21	6,213277E+22	1,174217E+22	7,387494E+22
623	3,106701E+22	3,106690E+22	5,870627E+21	5,871225E+21	6,213391E+22	1,174185E+22	7,387576E+22
624	3,106685E+22	3,106675E+22	5,870846E+21	5,870419E+21	6,213359E+22	1,174127E+22	7,387486E+22
625	3,106690E+22	3,106839E+22	5,870647E+21	5,870474E+21	6,213529E+22	1,174112E+22	7,387641E+22
626	3,106872E+22	3,106732E+22	5,869954E+21	5,870578E+21	6,213604E+22	1,174053E+22	7,387657E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
627	3,106804E+22	3,106809E+22	5,870402E+21	5,869733E+21	6,213613E+22	1,174014E+22	7,387627E+22
628	3,106849E+22	3,106919E+22	5,870077E+21	5,870326E+21	6,213768E+22	1,174040E+22	7,387808E+22
629	3,106903E+22	3,106787E+22	5,870011E+21	5,870237E+21	6,213690E+22	1,174025E+22	7,387715E+22
630	3,106734E+22	3,106876E+22	5,870725E+21	5,870069E+21	6,213611E+22	1,174079E+22	7,387690E+22
631	3,106764E+22	3,106811E+22	5,870389E+21	5,871034E+21	6,213575E+22	1,174142E+22	7,387717E+22
632	3,106727E+22	3,106635E+22	5,870939E+21	5,870776E+21	6,213362E+22	1,174172E+22	7,387533E+22
633	3,106593E+22	3,106697E+22	5,871493E+21	5,871067E+21	6,213290E+22	1,174256E+22	7,387546E+22
634	3,106668E+22	3,106532E+22	5,871119E+21	5,871892E+21	6,213200E+22	1,174301E+22	7,387501E+22
635	3,106520E+22	3,106484E+22	5,871907E+21	5,871477E+21	6,213004E+22	1,174338E+22	7,387343E+22
636	3,106441E+22	3,106569E+22	5,871997E+21	5,872174E+21	6,213010E+22	1,174417E+22	7,387427E+22
637	3,106519E+22	3,106394E+22	5,871805E+21	5,872308E+21	6,212912E+22	1,174411E+22	7,387324E+22
638	3,106384E+22	3,106458E+22	5,872471E+21	5,871705E+21	6,212842E+22	1,174418E+22	7,387259E+22
639	3,106433E+22	3,106486E+22	5,871971E+21	5,872314E+21	6,212919E+22	1,174429E+22	7,387348E+22
640	3,106489E+22	3,106384E+22	5,871936E+21	5,871795E+21	6,212873E+22	1,174373E+22	7,387246E+22
641	3,106388E+22	3,106555E+22	5,872149E+21	5,871464E+21	6,212943E+22	1,174361E+22	7,387304E+22
642	3,106546E+22	3,106518E+22	5,871217E+21	5,871981E+21	6,213064E+22	1,174320E+22	7,387384E+22
643	3,106558E+22	3,106512E+22	5,871379E+21	5,871047E+21	6,213070E+22	1,174243E+22	7,387313E+22
644	3,106563E+22	3,106689E+22	5,871269E+21	5,871094E+21	6,213252E+22	1,174236E+22	7,387488E+22
645	3,106745E+22	3,106604E+22	5,870607E+21	5,871132E+21	6,213349E+22	1,174174E+22	7,387523E+22
646	3,106663E+22	3,106682E+22	5,871133E+21	5,870420E+21	6,213345E+22	1,174155E+22	7,387500E+22
647	3,106643E+22	3,106764E+22	5,870880E+21	5,871139E+21	6,213407E+22	1,174202E+22	7,387609E+22
648	3,106697E+22	3,106611E+22	5,870851E+21	5,871100E+21	6,213308E+22	1,174195E+22	7,387503E+22
649	3,106541E+22	3,106668E+22	5,871610E+21	5,870919E+21	6,213209E+22	1,174253E+22	7,387462E+22
650	3,106602E+22	3,106576E+22	5,871165E+21	5,871873E+21	6,213178E+22	1,174304E+22	7,387482E+22
651	3,106572E+22	3,106426E+22	5,871670E+21	5,871550E+21	6,212998E+22	1,174322E+22	7,387320E+22
652	3,106407E+22	3,106521E+22	5,872286E+21	5,871922E+21	6,212928E+22	1,174421E+22	7,387349E+22
653	3,106473E+22	3,106385E+22	5,871909E+21	5,872698E+21	6,212859E+22	1,174461E+22	7,387319E+22
654	3,106343E+22	3,106328E+22	5,872734E+21	5,872282E+21	6,212670E+22	1,174502E+22	7,387172E+22
655	3,106241E+22	3,106389E+22	5,872856E+21	5,872918E+21	6,212629E+22	1,174577E+22	7,387207E+22
656	3,106345E+22	3,106220E+22	5,872636E+21	5,872993E+21	6,212566E+22	1,174563E+22	7,387129E+22
657	3,106212E+22	3,106278E+22	5,873294E+21	5,872401E+21	6,212490E+22	1,174570E+22	7,387060E+22
658	3,106264E+22	3,106306E+22	5,872631E+21	5,873089E+21	6,212570E+22	1,174572E+22	7,387142E+22
659	3,106326E+22	3,106222E+22	5,872497E+21	5,872550E+21	6,212549E+22	1,174505E+22	7,387053E+22
660	3,106226E+22	3,106396E+22	5,872756E+21	5,872220E+21	6,212622E+22	1,174498E+22	7,387120E+22
661	3,106421E+22	3,106377E+22	5,871811E+21	5,872567E+21	6,212798E+22	1,174438E+22	7,387236E+22
662	3,106461E+22	3,106369E+22	5,872001E+21	5,871591E+21	6,212830E+22	1,174359E+22	7,387189E+22
663	3,106411E+22	3,106543E+22	5,871980E+21	5,871671E+21	6,212955E+22	1,174365E+22	7,387320E+22
664	3,106574E+22	3,106477E+22	5,871345E+21	5,871800E+21	6,213051E+22	1,174315E+22	7,387365E+22
665	3,106464E+22	3,106526E+22	5,871949E+21	5,871211E+21	6,212990E+22	1,174316E+22	7,387306E+22
666	3,106454E+22	3,106568E+22	5,871622E+21	5,871984E+21	6,213022E+22	1,174361E+22	7,387383E+22
667	3,106532E+22	3,106409E+22	5,871555E+21	5,871885E+21	6,212941E+22	1,174344E+22	7,387285E+22
668	3,106377E+22	3,106465E+22	5,872380E+21	5,871722E+21	6,212842E+22	1,174410E+22	7,387252E+22
669	3,106445E+22	3,106401E+22	5,871942E+21	5,872619E+21	6,212846E+22	1,174456E+22	7,387302E+22
670	3,106408E+22	3,106265E+22	5,872470E+21	5,872385E+21	6,212673E+22	1,174486E+22	7,387159E+22
671	3,106189E+22	3,106351E+22	5,873160E+21	5,872812E+21	6,212540E+22	1,174597E+22	7,387137E+22
672	3,106268E+22	3,106213E+22	5,872817E+21	5,873551E+21	6,212481E+22	1,174637E+22	7,387118E+22
673	3,106153E+22	3,106135E+22	5,873662E+21	5,873083E+21	6,212287E+22	1,174675E+22	7,386962E+22
674	3,106072E+22	3,106179E+22	5,873635E+21	5,873671E+21	6,212251E+22	1,174731E+22	7,386981E+22
675	3,106181E+22	3,106035E+22	5,873316E+21	5,873700E+21	6,212217E+22	1,174702E+22	7,386918E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
676	3,106030E+22	3,106116E+22	5,873954E+21	5,873179E+21	6,212146E+22	1,174713E+22	7,386860E+22
677	3,106095E+22	3,106162E+22	5,873245E+21	5,873778E+21	6,212257E+22	1,174702E+22	7,386959E+22
678	3,106192E+22	3,106080E+22	5,873103E+21	5,873206E+21	6,212272E+22	1,174631E+22	7,386903E+22
679	3,106082E+22	3,106242E+22	5,873400E+21	5,872809E+21	6,212324E+22	1,174621E+22	7,386945E+22
680	3,106292E+22	3,106236E+22	5,872504E+21	5,873106E+21	6,212529E+22	1,174561E+22	7,387090E+22
681	3,106320E+22	3,106228E+22	5,872745E+21	5,872205E+21	6,212548E+22	1,174495E+22	7,387043E+22
682	3,106247E+22	3,106386E+22	5,872639E+21	5,872401E+21	6,212633E+22	1,174504E+22	7,387137E+22
683	3,106396E+22	3,106317E+22	5,871994E+21	5,872577E+21	6,212713E+22	1,174457E+22	7,387170E+22
684	3,106283E+22	3,106344E+22	5,872672E+21	5,872043E+21	6,212626E+22	1,174471E+22	7,387098E+22
685	3,106296E+22	3,106385E+22	5,872352E+21	5,872693E+21	6,212681E+22	1,174505E+22	7,387185E+22
686	3,106395E+22	3,106228E+22	5,872311E+21	5,872607E+21	6,212623E+22	1,174492E+22	7,387115E+22
687	3,106190E+22	3,106284E+22	5,873211E+21	5,872504E+21	6,212474E+22	1,174571E+22	7,387046E+22
688	3,106245E+22	3,106242E+22	5,872830E+21	5,873466E+21	6,212487E+22	1,174630E+22	7,387117E+22
689	3,106196E+22	3,106092E+22	5,873410E+21	5,873302E+21	6,212288E+22	1,174671E+22	7,386960E+22
690	3,105989E+22	3,106147E+22	5,874004E+21	5,873710E+21	6,212136E+22	1,174771E+22	7,386907E+22
691	3,106094E+22	3,106012E+22	5,873604E+21	5,874349E+21	6,212106E+22	1,174795E+22	7,386901E+22
692	3,105979E+22	3,105936E+22	5,874455E+21	5,873873E+21	6,211915E+22	1,174833E+22	7,386747E+22
693	3,105906E+22	3,106010E+22	5,874359E+21	5,874374E+21	6,211916E+22	1,174873E+22	7,386789E+22
694	3,106020E+22	3,105882E+22	5,873982E+21	5,874451E+21	6,211902E+22	1,174843E+22	7,386746E+22
695	3,105836E+22	3,105953E+22	5,874642E+21	5,873935E+21	6,211789E+22	1,174858E+22	7,386647E+22
696	3,105939E+22	3,106008E+22	5,873954E+21	5,874439E+21	6,211947E+22	1,174839E+22	7,386787E+22
697	3,106059E+22	3,105921E+22	5,873825E+21	5,873802E+21	6,211980E+22	1,174763E+22	7,386743E+22
698	3,105959E+22	3,106076E+22	5,874023E+21	5,873381E+21	6,212035E+22	1,174740E+22	7,386775E+22
699	3,106156E+22	3,106097E+22	5,873104E+21	5,873687E+21	6,212252E+22	1,174679E+22	7,386931E+22
700	3,106144E+22	3,106094E+22	5,873388E+21	5,872932E+21	6,212239E+22	1,174632E+22	7,386871E+22
701	3,106070E+22	3,106247E+22	5,873293E+21	5,873099E+21	6,212317E+22	1,174639E+22	7,386956E+22
702	3,106238E+22	3,106160E+22	5,872674E+21	5,873297E+21	6,212398E+22	1,174597E+22	7,386995E+22
703	3,106109E+22	3,106160E+22	5,873428E+21	5,872771E+21	6,212268E+22	1,174620E+22	7,386888E+22
704	3,106140E+22	3,106205E+22	5,873186E+21	5,873411E+21	6,212346E+22	1,174660E+22	7,387006E+22
705	3,106225E+22	3,106053E+22	5,873192E+21	5,873438E+21	6,212277E+22	1,174663E+22	7,386940E+22
706	3,105999E+22	3,106097E+22	5,873997E+21	5,873437E+21	6,212097E+22	1,174743E+22	7,386840E+22
707	3,106048E+22	3,106056E+22	5,873633E+21	5,874391E+21	6,212104E+22	1,174802E+22	7,386907E+22
708	3,106004E+22	3,105895E+22	5,874256E+21	5,874221E+21	6,211899E+22	1,174848E+22	7,386747E+22
709	3,105822E+22	3,105951E+22	5,874814E+21	5,874445E+21	6,211773E+22	1,174926E+22	7,386699E+22
710	3,105936E+22	3,105831E+22	5,874391E+21	5,875048E+21	6,211767E+22	1,174944E+22	7,386711E+22
711	3,105778E+22	3,105760E+22	5,875244E+21	5,874614E+21	6,211538E+22	1,174986E+22	7,386524E+22
712	3,105705E+22	3,105850E+22	5,875157E+21	5,875120E+21	6,211555E+22	1,175028E+22	7,386582E+22
713	3,105830E+22	3,105721E+22	5,874775E+21	5,875226E+21	6,211552E+22	1,175000E+22	7,386552E+22
714	3,105679E+22	3,105772E+22	5,875289E+21	5,874655E+21	6,211450E+22	1,174994E+22	7,386445E+22
715	3,105813E+22	3,105842E+22	5,874577E+21	5,875049E+21	6,211655E+22	1,174963E+22	7,386617E+22
716	3,105929E+22	3,105772E+22	5,874460E+21	5,874423E+21	6,211700E+22	1,174888E+22	7,386589E+22
717	3,105822E+22	3,105947E+22	5,874625E+21	5,873964E+21	6,211769E+22	1,174859E+22	7,386628E+22
718	3,105999E+22	3,105977E+22	5,873711E+21	5,874354E+21	6,211976E+22	1,174807E+22	7,386783E+22
719	3,105947E+22	3,105942E+22	5,874082E+21	5,873686E+21	6,211889E+22	1,174777E+22	7,386666E+22
720	3,105900E+22	3,106079E+22	5,874070E+21	5,873813E+21	6,211979E+22	1,174788E+22	7,386767E+22
721	3,106085E+22	3,105977E+22	5,873490E+21	5,874030E+21	6,212062E+22	1,174752E+22	7,386814E+22
722	3,105959E+22	3,105960E+22	5,874146E+21	5,873536E+21	6,211919E+22	1,174768E+22	7,386687E+22
723	3,105981E+22	3,106027E+22	5,873921E+21	5,874211E+21	6,212009E+22	1,174813E+22	7,386822E+22
724	3,106031E+22	3,105884E+22	5,873975E+21	5,874339E+21	6,211915E+22	1,174831E+22	7,386747E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
725	3,105813E+22	3,105928E+22	5,874791E+21	5,874266E+21	6,211741E+22	1,174906E+22	7,386647E+22
726	3,105876E+22	3,105882E+22	5,874447E+21	5,875166E+21	6,211757E+22	1,174961E+22	7,386719E+22
727	3,105803E+22	3,105702E+22	5,875141E+21	5,874993E+21	6,211505E+22	1,175013E+22	7,386519E+22
728	3,105636E+22	3,105767E+22	5,875730E+21	5,875179E+21	6,211403E+22	1,175091E+22	7,386494E+22
729	3,105737E+22	3,105653E+22	5,875286E+21	5,875872E+21	6,211390E+22	1,175116E+22	7,386506E+22
730	3,105575E+22	3,105567E+22	5,875974E+21	5,875501E+21	6,211142E+22	1,175148E+22	7,386289E+22
731	3,105529E+22	3,105661E+22	5,875858E+21	5,875943E+21	6,211190E+22	1,175180E+22	7,386370E+22
732	3,105674E+22	3,105543E+22	5,875458E+21	5,875981E+21	6,211217E+22	1,175144E+22	7,386361E+22
733	3,105562E+22	3,105614E+22	5,875898E+21	5,875232E+21	6,211176E+22	1,175113E+22	7,386289E+22
734	3,105696E+22	3,105711E+22	5,875179E+21	5,875575E+21	6,211407E+22	1,175075E+22	7,386483E+22
735	3,105755E+22	3,105649E+22	5,875114E+21	5,875035E+21	6,211404E+22	1,175015E+22	7,386418E+22
736	3,105641E+22	3,105823E+22	5,875339E+21	5,874614E+21	6,211464E+22	1,174995E+22	7,386459E+22
737	3,105815E+22	3,105832E+22	5,874470E+21	5,875076E+21	6,211647E+22	1,174955E+22	7,386602E+22
738	3,105786E+22	3,105754E+22	5,874738E+21	5,874432E+21	6,211541E+22	1,174917E+22	7,386458E+22
739	3,105768E+22	3,105884E+22	5,874756E+21	5,874519E+21	6,211652E+22	1,174928E+22	7,386580E+22
740	3,105944E+22	3,105800E+22	5,874212E+21	5,874799E+21	6,211744E+22	1,174901E+22	7,386645E+22
741	3,105814E+22	3,105799E+22	5,874827E+21	5,874298E+21	6,211612E+22	1,174913E+22	7,386525E+22
742	3,105808E+22	3,105879E+22	5,874653E+21	5,875014E+21	6,211687E+22	1,174967E+22	7,386654E+22
743	3,105819E+22	3,105714E+22	5,874824E+21	5,875190E+21	6,211533E+22	1,175001E+22	7,386534E+22
744	3,105619E+22	3,105742E+22	5,875739E+21	5,875043E+21	6,211361E+22	1,175078E+22	7,386440E+22
745	3,105683E+22	3,105691E+22	5,875429E+21	5,875951E+21	6,211374E+22	1,175138E+22	7,386512E+22
746	3,105606E+22	3,105490E+22	5,875990E+21	5,875838E+21	6,211096E+22	1,175183E+22	7,386279E+22
747	3,105437E+22	3,105566E+22	5,876538E+21	5,876057E+21	6,211003E+22	1,175260E+22	7,386263E+22
748	3,105528E+22	3,105466E+22	5,876056E+21	5,876794E+21	6,210994E+22	1,175285E+22	7,386279E+22
749	3,105407E+22	3,105386E+22	5,876639E+21	5,876293E+21	6,210793E+22	1,175293E+22	7,386086E+22
750	3,105395E+22	3,105499E+22	5,876498E+21	5,876599E+21	6,210895E+22	1,175310E+22	7,386205E+22
751	3,105525E+22	3,105391E+22	5,876154E+21	5,876586E+21	6,210915E+22	1,175274E+22	7,386189E+22
752	3,105423E+22	3,105481E+22	5,876637E+21	5,875790E+21	6,210904E+22	1,175243E+22	7,386147E+22
753	3,105529E+22	3,105589E+22	5,875926E+21	5,876226E+21	6,211119E+22	1,175215E+22	7,386334E+22
754	3,105568E+22	3,105493E+22	5,875749E+21	5,875793E+21	6,211062E+22	1,175154E+22	7,386216E+22
755	3,105482E+22	3,105644E+22	5,875993E+21	5,875364E+21	6,211126E+22	1,175136E+22	7,386261E+22
756	3,105666E+22	3,105648E+22	5,875141E+21	5,875797E+21	6,211313E+22	1,175094E+22	7,386407E+22
757	3,105672E+22	3,105579E+22	5,875344E+21	5,875063E+21	6,211250E+22	1,175041E+22	7,386291E+22
758	3,105648E+22	3,105733E+22	5,875382E+21	5,875140E+21	6,211381E+22	1,175052E+22	7,386433E+22
759	3,105756E+22	3,105658E+22	5,874953E+21	5,875534E+21	6,211414E+22	1,175049E+22	7,386462E+22
760	3,105619E+22	3,105658E+22	5,875673E+21	5,875069E+21	6,211277E+22	1,175074E+22	7,386351E+22
761	3,105604E+22	3,105718E+22	5,875583E+21	5,875833E+21	6,211322E+22	1,175142E+22	7,386464E+22
762	3,105619E+22	3,105510E+22	5,875685E+21	5,876049E+21	6,211129E+22	1,175173E+22	7,386302E+22
763	3,105445E+22	3,105522E+22	5,876619E+21	5,875890E+21	6,210967E+22	1,175251E+22	7,386217E+22
764	3,105488E+22	3,105484E+22	5,876291E+21	5,876843E+21	6,210972E+22	1,175313E+22	7,386285E+22
765	3,105421E+22	3,105298E+22	5,876724E+21	5,876734E+21	6,210719E+22	1,175346E+22	7,386065E+22
766	3,105256E+22	3,105386E+22	5,877235E+21	5,876913E+21	6,210642E+22	1,175415E+22	7,386057E+22
767	3,105336E+22	3,105286E+22	5,876826E+21	5,877606E+21	6,210622E+22	1,175443E+22	7,386065E+22
768	3,105259E+22	3,105220E+22	5,877432E+21	5,876945E+21	6,210479E+22	1,175438E+22	7,385917E+22
769	3,105253E+22	3,105351E+22	5,877306E+21	5,877202E+21	6,210604E+22	1,175451E+22	7,386055E+22
770	3,105364E+22	3,105237E+22	5,876845E+21	5,877229E+21	6,210601E+22	1,175407E+22	7,386008E+22
771	3,105255E+22	3,105328E+22	5,877317E+21	5,876485E+21	6,210583E+22	1,175380E+22	7,385964E+22
772	3,105339E+22	3,105440E+22	5,876598E+21	5,876961E+21	6,210779E+22	1,175356E+22	7,386135E+22
773	3,105418E+22	3,105328E+22	5,876322E+21	5,876476E+21	6,210746E+22	1,175280E+22	7,386026E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
774	3,105357E+22	3,105479E+22	5,876562E+21	5,875968E+21	6,210836E+22	1,175253E+22	7,386089E+22
775	3,105523E+22	3,105489E+22	5,875811E+21	5,876421E+21	6,211012E+22	1,175223E+22	7,386236E+22
776	3,105533E+22	3,105437E+22	5,876079E+21	5,875696E+21	6,210970E+22	1,175177E+22	7,386148E+22
777	3,105474E+22	3,105604E+22	5,876178E+21	5,875897E+21	6,211078E+22	1,175208E+22	7,386286E+22
778	3,105554E+22	3,105490E+22	5,875721E+21	5,876401E+21	6,211044E+22	1,175212E+22	7,386256E+22
779	3,105436E+22	3,105457E+22	5,876519E+21	5,875954E+21	6,210894E+22	1,175247E+22	7,386141E+22
780	3,105416E+22	3,105512E+22	5,876458E+21	5,876678E+21	6,210928E+22	1,175314E+22	7,386242E+22
781	3,105457E+22	3,105301E+22	5,876469E+21	5,876858E+21	6,210758E+22	1,175333E+22	7,386091E+22
782	3,105276E+22	3,105330E+22	5,877372E+21	5,876686E+21	6,210606E+22	1,175406E+22	7,386012E+22
783	3,105270E+22	3,105304E+22	5,877106E+21	5,877708E+21	6,210575E+22	1,175481E+22	7,386056E+22
784	3,105222E+22	3,105129E+22	5,877568E+21	5,877552E+21	6,210351E+22	1,175512E+22	7,385863E+22
785	3,105076E+22	3,105220E+22	5,878091E+21	5,877698E+21	6,210295E+22	1,175579E+22	7,385874E+22
786	3,105166E+22	3,105101E+22	5,877610E+21	5,878347E+21	6,210266E+22	1,175596E+22	7,385862E+22
787	3,105121E+22	3,105041E+22	5,878213E+21	5,877645E+21	6,210162E+22	1,175586E+22	7,385747E+22
788	3,105086E+22	3,105194E+22	5,878052E+21	5,877890E+21	6,210280E+22	1,175594E+22	7,385875E+22
789	3,105197E+22	3,105089E+22	5,877447E+21	5,877944E+21	6,210286E+22	1,175539E+22	7,385825E+22
790	3,105094E+22	3,105176E+22	5,877871E+21	5,877170E+21	6,210270E+22	1,175504E+22	7,385774E+22
791	3,105163E+22	3,105275E+22	5,877242E+21	5,877627E+21	6,210437E+22	1,175487E+22	7,385924E+22
792	3,105285E+22	3,105174E+22	5,877002E+21	5,877048E+21	6,210459E+22	1,175405E+22	7,385864E+22
793	3,105231E+22	3,105336E+22	5,877270E+21	5,876568E+21	6,210567E+22	1,175384E+22	7,385951E+22
794	3,105365E+22	3,105335E+22	5,876492E+21	5,877114E+21	6,210700E+22	1,175361E+22	7,386061E+22
795	3,105370E+22	3,105280E+22	5,876798E+21	5,876484E+21	6,210650E+22	1,175328E+22	7,385979E+22
796	3,105281E+22	3,105441E+22	5,876949E+21	5,876704E+21	6,210721E+22	1,175365E+22	7,386087E+22
797	3,105387E+22	3,105308E+22	5,876439E+21	5,877195E+21	6,210695E+22	1,175363E+22	7,386059E+22
798	3,105283E+22	3,105266E+22	5,877256E+21	5,876698E+21	6,210550E+22	1,175395E+22	7,385945E+22
799	3,105230E+22	3,105322E+22	5,877312E+21	5,877457E+21	6,210552E+22	1,175477E+22	7,386028E+22
800	3,105272E+22	3,105127E+22	5,877353E+21	5,877664E+21	6,210400E+22	1,175502E+22	7,385901E+22
801	3,105071E+22	3,105162E+22	5,878251E+21	5,877590E+21	6,210233E+22	1,175584E+22	7,385818E+22
802	3,105056E+22	3,105103E+22	5,877948E+21	5,878642E+21	6,210159E+22	1,175659E+22	7,385818E+22
803	3,105051E+22	3,104915E+22	5,878427E+21	5,878419E+21	6,209966E+22	1,175685E+22	7,385651E+22
804	3,104908E+22	3,105030E+22	5,878930E+21	5,878448E+21	6,209938E+22	1,175738E+22	7,385676E+22
805	3,105022E+22	3,104926E+22	5,878319E+21	5,879036E+21	6,209949E+22	1,175735E+22	7,385684E+22
806	3,104959E+22	3,104889E+22	5,878857E+21	5,878305E+21	6,209849E+22	1,175716E+22	7,385565E+22
807	3,104879E+22	3,105053E+22	5,878740E+21	5,878594E+21	6,209932E+22	1,175733E+22	7,385665E+22
808	3,105013E+22	3,104947E+22	5,878142E+21	5,878600E+21	6,209960E+22	1,175674E+22	7,385634E+22
809	3,104937E+22	3,105026E+22	5,878554E+21	5,877823E+21	6,209963E+22	1,175638E+22	7,385600E+22
810	3,105019E+22	3,105098E+22	5,877891E+21	5,878267E+21	6,210117E+22	1,175616E+22	7,385732E+22
811	3,105171E+22	3,105002E+22	5,877676E+21	5,877710E+21	6,210173E+22	1,175539E+22	7,385711E+22
812	3,105084E+22	3,105192E+22	5,877942E+21	5,877264E+21	6,210276E+22	1,175521E+22	7,385797E+22
813	3,105212E+22	3,105190E+22	5,877098E+21	5,877871E+21	6,210402E+22	1,175497E+22	7,385899E+22
814	3,105213E+22	3,105123E+22	5,877433E+21	5,877229E+21	6,210336E+22	1,175466E+22	7,385802E+22
815	3,105098E+22	3,105267E+22	5,877733E+21	5,877436E+21	6,210365E+22	1,175517E+22	7,385882E+22
816	3,105223E+22	3,105138E+22	5,877294E+21	5,877874E+21	6,210361E+22	1,175517E+22	7,385878E+22
817	3,105113E+22	3,105097E+22	5,878137E+21	5,877464E+21	6,210209E+22	1,175560E+22	7,385770E+22
818	3,105017E+22	3,105128E+22	5,878177E+21	5,878327E+21	6,210145E+22	1,175650E+22	7,385796E+22
819	3,105069E+22	3,104930E+22	5,878232E+21	5,878620E+21	6,209999E+22	1,175685E+22	7,385684E+22
820	3,104863E+22	3,104964E+22	5,879107E+21	5,878501E+21	6,209827E+22	1,175761E+22	7,385587E+22
821	3,104887E+22	3,104901E+22	5,878713E+21	5,879484E+21	6,209788E+22	1,175820E+22	7,385608E+22
822	3,104906E+22	3,104732E+22	5,879141E+21	5,879141E+21	6,209637E+22	1,175828E+22	7,385466E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
823	3,104733E+22	3,104861E+22	5,879717E+21	5,879143E+21	6,209594E+22	1,175886E+22	7,385480E+22
824	3,104843E+22	3,104790E+22	5,879099E+21	5,879711E+21	6,209632E+22	1,175881E+22	7,385513E+22
825	3,104768E+22	3,104753E+22	5,879590E+21	5,879063E+21	6,209521E+22	1,175865E+22	7,385387E+22
826	3,104679E+22	3,104872E+22	5,879441E+21	5,879353E+21	6,209551E+22	1,175879E+22	7,385431E+22
827	3,104868E+22	3,104755E+22	5,878840E+21	5,879310E+21	6,209624E+22	1,175815E+22	7,385439E+22
828	3,104806E+22	3,104852E+22	5,879206E+21	5,878442E+21	6,209658E+22	1,175765E+22	7,385423E+22
829	3,104910E+22	3,104940E+22	5,878459E+21	5,878883E+21	6,209850E+22	1,175734E+22	7,385584E+22
830	3,105041E+22	3,104872E+22	5,878214E+21	5,878326E+21	6,209914E+22	1,175654E+22	7,385568E+22
831	3,104905E+22	3,105065E+22	5,878606E+21	5,877942E+21	6,209970E+22	1,175655E+22	7,385625E+22
832	3,105038E+22	3,105061E+22	5,877852E+21	5,878520E+21	6,210099E+22	1,175637E+22	7,385736E+22
833	3,105043E+22	3,104976E+22	5,878238E+21	5,877951E+21	6,210019E+22	1,175619E+22	7,385638E+22
834	3,104915E+22	3,105073E+22	5,878578E+21	5,878201E+21	6,209989E+22	1,175678E+22	7,385667E+22
835	3,105055E+22	3,104934E+22	5,878184E+21	5,878722E+21	6,209988E+22	1,175691E+22	7,385679E+22
836	3,104910E+22	3,104907E+22	5,878987E+21	5,878374E+21	6,209817E+22	1,175736E+22	7,385554E+22
837	3,104826E+22	3,104926E+22	5,878926E+21	5,879292E+21	6,209752E+22	1,175822E+22	7,385574E+22
838	3,104887E+22	3,104727E+22	5,878963E+21	5,879506E+21	6,209613E+22	1,175847E+22	7,385460E+22
839	3,104679E+22	3,104769E+22	5,879928E+21	5,879308E+21	6,209449E+22	1,175924E+22	7,385372E+22
840	3,104727E+22	3,104733E+22	5,879576E+21	5,880160E+21	6,209461E+22	1,175974E+22	7,385434E+22
841	3,104735E+22	3,104585E+22	5,879985E+21	5,879862E+21	6,209320E+22	1,175985E+22	7,385305E+22
842	3,104521E+22	3,104694E+22	5,880522E+21	5,879909E+21	6,209215E+22	1,176043E+22	7,385258E+22
843	3,104644E+22	3,104613E+22	5,879889E+21	5,880509E+21	6,209257E+22	1,176040E+22	7,385297E+22
844	3,104576E+22	3,104577E+22	5,880310E+21	5,879806E+21	6,209153E+22	1,176012E+22	7,385165E+22
845	3,104542E+22	3,104684E+22	5,880039E+21	5,880039E+21	6,209226E+22	1,176008E+22	7,385234E+22
846	3,104759E+22	3,104591E+22	5,879389E+21	5,879900E+21	6,209350E+22	1,175929E+22	7,385279E+22
847	3,104677E+22	3,104713E+22	5,879819E+21	5,879042E+21	6,209389E+22	1,175886E+22	7,385275E+22
848	3,104767E+22	3,104835E+22	5,879118E+21	5,879478E+21	6,209601E+22	1,175860E+22	7,385461E+22
849	3,104877E+22	3,104765E+22	5,878893E+21	5,879030E+21	6,209642E+22	1,175792E+22	7,385434E+22
850	3,104716E+22	3,104897E+22	5,879362E+21	5,878674E+21	6,209613E+22	1,175804E+22	7,385417E+22
851	3,104877E+22	3,104875E+22	5,878681E+21	5,879255E+21	6,209752E+22	1,175794E+22	7,385545E+22
852	3,104875E+22	3,104788E+22	5,879053E+21	5,878695E+21	6,209663E+22	1,175775E+22	7,385438E+22
853	3,104752E+22	3,104873E+22	5,879320E+21	5,879027E+21	6,209625E+22	1,175835E+22	7,385459E+22
854	3,104874E+22	3,104753E+22	5,878876E+21	5,879574E+21	6,209626E+22	1,175845E+22	7,385471E+22
855	3,104704E+22	3,104723E+22	5,879751E+21	5,879257E+21	6,209427E+22	1,175901E+22	7,385328E+22
856	3,104642E+22	3,104754E+22	5,879762E+21	5,880077E+21	6,209396E+22	1,175984E+22	7,385380E+22
857	3,104719E+22	3,104562E+22	5,879817E+21	5,880290E+21	6,209281E+22	1,176011E+22	7,385291E+22
858	3,104495E+22	3,104575E+22	5,880829E+21	5,880079E+21	6,209070E+22	1,176091E+22	7,385161E+22
859	3,104549E+22	3,104550E+22	5,880506E+21	5,880958E+21	6,209099E+22	1,176146E+22	7,385245E+22
860	3,104522E+22	3,104417E+22	5,880828E+21	5,880700E+21	6,208939E+22	1,176153E+22	7,385092E+22
861	3,104327E+22	3,104501E+22	5,881223E+21	5,880777E+21	6,208828E+22	1,176200E+22	7,385028E+22
862	3,104476E+22	3,104421E+22	5,880513E+21	5,881255E+21	6,208897E+22	1,176177E+22	7,385074E+22
863	3,104426E+22	3,104397E+22	5,880952E+21	5,880467E+21	6,208823E+22	1,176142E+22	7,384965E+22
864	3,104425E+22	3,104541E+22	5,880703E+21	5,880580E+21	6,208966E+22	1,176128E+22	7,385094E+22
865	3,104627E+22	3,104482E+22	5,880044E+21	5,880499E+21	6,209109E+22	1,176054E+22	7,385164E+22
866	3,104502E+22	3,104583E+22	5,880499E+21	5,879715E+21	6,209085E+22	1,176021E+22	7,385107E+22
867	3,104597E+22	3,104688E+22	5,879865E+21	5,880179E+21	6,209285E+22	1,176004E+22	7,385289E+22
868	3,104695E+22	3,104609E+22	5,879633E+21	5,879733E+21	6,209304E+22	1,175937E+22	7,385240E+22
869	3,104570E+22	3,104705E+22	5,880027E+21	5,879407E+21	6,209276E+22	1,175943E+22	7,385219E+22
870	3,104733E+22	3,104686E+22	5,879340E+21	5,879953E+21	6,209419E+22	1,175929E+22	7,385349E+22
871	3,104706E+22	3,104613E+22	5,879778E+21	5,879482E+21	6,209319E+22	1,175926E+22	7,385245E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
872	3,104575E+22	3,104717E+22	5,880085E+21	5,879825E+21	6,209293E+22	1,175991E+22	7,385284E+22
873	3,104686E+22	3,104596E+22	5,879674E+21	5,880448E+21	6,209281E+22	1,176012E+22	7,385294E+22
874	3,104507E+22	3,104521E+22	5,880620E+21	5,880111E+21	6,209028E+22	1,176073E+22	7,385101E+22
875	3,104474E+22	3,104551E+22	5,880709E+21	5,880874E+21	6,209025E+22	1,176158E+22	7,385183E+22
876	3,104534E+22	3,104380E+22	5,880747E+21	5,881070E+21	6,208914E+22	1,176182E+22	7,385095E+22
877	3,104310E+22	3,104383E+22	5,881647E+21	5,880933E+21	6,208693E+22	1,176258E+22	7,384951E+22
878	3,104344E+22	3,104373E+22	5,881246E+21	5,881785E+21	6,208717E+22	1,176303E+22	7,385020E+22
879	3,104310E+22	3,104237E+22	5,881567E+21	5,881535E+21	6,208547E+22	1,176310E+22	7,384857E+22
880	3,104155E+22	3,104329E+22	5,881945E+21	5,881477E+21	6,208484E+22	1,176342E+22	7,384826E+22
881	3,104337E+22	3,104268E+22	5,881198E+21	5,881919E+21	6,208605E+22	1,176312E+22	7,384916E+22
882	3,104285E+22	3,104226E+22	5,881654E+21	5,881102E+21	6,208511E+22	1,176276E+22	7,384787E+22
883	3,104291E+22	3,104397E+22	5,881438E+21	5,881231E+21	6,208688E+22	1,176267E+22	7,384955E+22
884	3,104456E+22	3,104360E+22	5,880726E+21	5,881186E+21	6,208816E+22	1,176191E+22	7,385007E+22
885	3,104341E+22	3,104418E+22	5,881107E+21	5,880466E+21	6,208759E+22	1,176157E+22	7,384916E+22
886	3,104445E+22	3,104517E+22	5,880467E+21	5,880828E+21	6,208962E+22	1,176129E+22	7,385091E+22
887	3,104545E+22	3,104434E+22	5,880294E+21	5,880385E+21	6,208980E+22	1,176068E+22	7,385047E+22
888	3,104433E+22	3,104546E+22	5,880741E+21	5,880026E+21	6,208980E+22	1,176077E+22	7,385056E+22
889	3,104572E+22	3,104548E+22	5,880070E+21	5,880684E+21	6,209120E+22	1,176075E+22	7,385195E+22
890	3,104503E+22	3,104442E+22	5,880566E+21	5,880313E+21	6,208944E+22	1,176088E+22	7,385032E+22
891	3,104387E+22	3,104534E+22	5,880961E+21	5,880675E+21	6,208921E+22	1,176164E+22	7,385085E+22
892	3,104489E+22	3,104415E+22	5,880566E+21	5,881279E+21	6,208904E+22	1,176184E+22	7,385088E+22
893	3,104343E+22	3,104310E+22	5,881453E+21	5,880978E+21	6,208653E+22	1,176243E+22	7,384897E+22
894	3,104305E+22	3,104355E+22	5,881532E+21	5,881669E+21	6,208660E+22	1,176320E+22	7,384980E+22
895	3,104333E+22	3,104202E+22	5,881584E+21	5,881945E+21	6,208535E+22	1,176353E+22	7,384888E+22
896	3,104108E+22	3,104216E+22	5,882451E+21	5,881787E+21	6,208325E+22	1,176424E+22	7,384748E+22
897	3,104142E+22	3,104203E+22	5,882021E+21	5,882631E+21	6,208345E+22	1,176465E+22	7,384810E+22
898	3,104121E+22	3,104032E+22	5,882353E+21	5,882319E+21	6,208153E+22	1,176467E+22	7,384620E+22
899	3,104018E+22	3,104135E+22	5,882735E+21	5,882155E+21	6,208153E+22	1,176489E+22	7,384642E+22
900	3,104187E+22	3,104114E+22	5,881950E+21	5,882553E+21	6,208300E+22	1,176450E+22	7,384751E+22
901	3,104145E+22	3,104073E+22	5,882263E+21	5,881802E+21	6,208218E+22	1,176407E+22	7,384624E+22
902	3,104133E+22	3,104256E+22	5,882007E+21	5,881869E+21	6,208389E+22	1,176388E+22	7,384777E+22
903	3,104283E+22	3,104220E+22	5,881336E+21	5,881840E+21	6,208503E+22	1,176318E+22	7,384821E+22
904	3,104196E+22	3,104275E+22	5,881743E+21	5,881050E+21	6,208471E+22	1,176279E+22	7,384750E+22
905	3,104304E+22	3,104377E+22	5,881134E+21	5,881426E+21	6,208680E+22	1,176256E+22	7,384936E+22
906	3,104385E+22	3,104263E+22	5,881043E+21	5,881070E+21	6,208648E+22	1,176211E+22	7,384859E+22
907	3,104274E+22	3,104381E+22	5,881538E+21	5,880796E+21	6,208655E+22	1,176233E+22	7,384888E+22
908	3,104376E+22	3,104392E+22	5,880872E+21	5,881533E+21	6,208768E+22	1,176241E+22	7,385009E+22
909	3,104328E+22	3,104239E+22	5,881301E+21	5,881232E+21	6,208567E+22	1,176253E+22	7,384820E+22
910	3,104224E+22	3,104332E+22	5,881713E+21	5,881474E+21	6,208556E+22	1,176319E+22	7,384875E+22
911	3,104321E+22	3,104225E+22	5,881388E+21	5,882076E+21	6,208546E+22	1,176346E+22	7,384892E+22
912	3,104175E+22	3,104139E+22	5,882310E+21	5,881751E+21	6,208314E+22	1,176406E+22	7,384721E+22
913	3,104106E+22	3,104204E+22	5,882377E+21	5,882497E+21	6,208310E+22	1,176487E+22	7,384797E+22
914	3,104101E+22	3,104010E+22	5,882462E+21	5,882834E+21	6,208111E+22	1,176530E+22	7,384641E+22
915	3,103906E+22	3,104014E+22	5,883333E+21	5,882630E+21	6,207920E+22	1,176596E+22	7,384516E+22
916	3,103953E+22	3,104013E+22	5,882845E+21	5,883391E+21	6,207966E+22	1,176624E+22	7,384590E+22
917	3,103978E+22	3,103823E+22	5,883047E+21	5,883074E+21	6,207801E+22	1,176612E+22	7,384414E+22
918	3,103887E+22	3,103963E+22	5,883378E+21	5,882806E+21	6,207851E+22	1,176618E+22	7,384469E+22
919	3,104030E+22	3,103979E+22	5,882596E+21	5,883246E+21	6,208009E+22	1,176584E+22	7,384593E+22
920	3,103986E+22	3,103952E+22	5,882885E+21	5,882466E+21	6,207938E+22	1,176535E+22	7,384473E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
921	3,103970E+22	3,104130E+22	5,882638E+21	5,882494E+21	6,208100E+22	1,176513E+22	7,384613E+22
922	3,104114E+22	3,104050E+22	5,882041E+21	5,882459E+21	6,208165E+22	1,176450E+22	7,384615E+22
923	3,104059E+22	3,104104E+22	5,882496E+21	5,881667E+21	6,208162E+22	1,176416E+22	7,384579E+22
924	3,104139E+22	3,104225E+22	5,881898E+21	5,882098E+21	6,208364E+22	1,176400E+22	7,384763E+22
925	3,104221E+22	3,104089E+22	5,881709E+21	5,881904E+21	6,208310E+22	1,176361E+22	7,384672E+22
926	3,104104E+22	3,104207E+22	5,882186E+21	5,881605E+21	6,208311E+22	1,176379E+22	7,384690E+22
927	3,104198E+22	3,104217E+22	5,881597E+21	5,882355E+21	6,208416E+22	1,176395E+22	7,384811E+22
928	3,104178E+22	3,104069E+22	5,882053E+21	5,881984E+21	6,208247E+22	1,176404E+22	7,384651E+22
929	3,104069E+22	3,104168E+22	5,882525E+21	5,882193E+21	6,208237E+22	1,176472E+22	7,384709E+22
930	3,104129E+22	3,104042E+22	5,882311E+21	5,882881E+21	6,208171E+22	1,176519E+22	7,384690E+22
931	3,103976E+22	3,103959E+22	5,883254E+21	5,882631E+21	6,207935E+22	1,176588E+22	7,384523E+22
932	3,103868E+22	3,104022E+22	5,883301E+21	5,883409E+21	6,207890E+22	1,176671E+22	7,384561E+22
933	3,103901E+22	3,103782E+22	5,883257E+21	5,883775E+21	6,207682E+22	1,176703E+22	7,384386E+22
934	3,103745E+22	3,103790E+22	5,884052E+21	5,883401E+21	6,207535E+22	1,176745E+22	7,384280E+22
935	3,103803E+22	3,103824E+22	5,883578E+21	5,884108E+21	6,207627E+22	1,176769E+22	7,384396E+22
936	3,103841E+22	3,103680E+22	5,883728E+21	5,883727E+21	6,207521E+22	1,176746E+22	7,384267E+22
937	3,103725E+22	3,103852E+22	5,884029E+21	5,883449E+21	6,207577E+22	1,176748E+22	7,384325E+22
938	3,103836E+22	3,103840E+22	5,883318E+21	5,883921E+21	6,207676E+22	1,176724E+22	7,384400E+22
939	3,103816E+22	3,103802E+22	5,883625E+21	5,883114E+21	6,207618E+22	1,176674E+22	7,384292E+22
940	3,103799E+22	3,103978E+22	5,883372E+21	5,883112E+21	6,207777E+22	1,176648E+22	7,384426E+22
941	3,103976E+22	3,103862E+22	5,882682E+21	5,883160E+21	6,207838E+22	1,176584E+22	7,384422E+22
942	3,103928E+22	3,103929E+22	5,883098E+21	5,882359E+21	6,207857E+22	1,176546E+22	7,384403E+22
943	3,103981E+22	3,104073E+22	5,882533E+21	5,882885E+21	6,208054E+22	1,176542E+22	7,384596E+22
944	3,104066E+22	3,103942E+22	5,882345E+21	5,882687E+21	6,208007E+22	1,176503E+22	7,384511E+22
945	3,103952E+22	3,104056E+22	5,882869E+21	5,882328E+21	6,208008E+22	1,176520E+22	7,384528E+22
946	3,104031E+22	3,104032E+22	5,882433E+21	5,883062E+21	6,208063E+22	1,176549E+22	7,384613E+22
947	3,104017E+22	3,103892E+22	5,882975E+21	5,882708E+21	6,207909E+22	1,176568E+22	7,384477E+22
948	3,103864E+22	3,104006E+22	5,883473E+21	5,882982E+21	6,207870E+22	1,176646E+22	7,384516E+22
949	3,103910E+22	3,103841E+22	5,883166E+21	5,883828E+21	6,207751E+22	1,176699E+22	7,384450E+22
950	3,103761E+22	3,103749E+22	5,884057E+21	5,883546E+21	6,207510E+22	1,176760E+22	7,384270E+22
951	3,103664E+22	3,103811E+22	5,884108E+21	5,884295E+21	6,207475E+22	1,176840E+22	7,384315E+22
952	3,103739E+22	3,103587E+22	5,884008E+21	5,884561E+21	6,207326E+22	1,176857E+22	7,384183E+22
953	3,103602E+22	3,103623E+22	5,884771E+21	5,884097E+21	6,207226E+22	1,176887E+22	7,384112E+22
954	3,103633E+22	3,103662E+22	5,884384E+21	5,884830E+21	6,207295E+22	1,176921E+22	7,384217E+22
955	3,103666E+22	3,103546E+22	5,884519E+21	5,884468E+21	6,207212E+22	1,176899E+22	7,384111E+22
956	3,103526E+22	3,103715E+22	5,884800E+21	5,884175E+21	6,207241E+22	1,176898E+22	7,384139E+22
957	3,103665E+22	3,103653E+22	5,883989E+21	5,884660E+21	6,207318E+22	1,176865E+22	7,384183E+22
958	3,103679E+22	3,103612E+22	5,884234E+21	5,883748E+21	6,207291E+22	1,176798E+22	7,384089E+22
959	3,103661E+22	3,103808E+22	5,884005E+21	5,883755E+21	6,207469E+22	1,176776E+22	7,384245E+22
960	3,103846E+22	3,103722E+22	5,883272E+21	5,883820E+21	6,207569E+22	1,176709E+22	7,384278E+22
961	3,103782E+22	3,103804E+22	5,883672E+21	5,883024E+21	6,207586E+22	1,176670E+22	7,384255E+22
962	3,103805E+22	3,103921E+22	5,883261E+21	5,883591E+21	6,207726E+22	1,176685E+22	7,384411E+22
963	3,103907E+22	3,103789E+22	5,883132E+21	5,883373E+21	6,207697E+22	1,176650E+22	7,384347E+22
964	3,103777E+22	3,103897E+22	5,883729E+21	5,883014E+21	6,207674E+22	1,176674E+22	7,384348E+22
965	3,103861E+22	3,103836E+22	5,883273E+21	5,883859E+21	6,207698E+22	1,176713E+22	7,384411E+22
966	3,103836E+22	3,103700E+22	5,883797E+21	5,883562E+21	6,207536E+22	1,176736E+22	7,384272E+22
967	3,103647E+22	3,103820E+22	5,884313E+21	5,883940E+21	6,207467E+22	1,176825E+22	7,384292E+22
968	3,103705E+22	3,103647E+22	5,883955E+21	5,884771E+21	6,207352E+22	1,176873E+22	7,384225E+22
969	3,103581E+22	3,103549E+22	5,884806E+21	5,884374E+21	6,207129E+22	1,176918E+22	7,384047E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
970	3,103488E+22	3,103600E+22	5,884965E+21	5,885068E+21	6,207088E+22	1,177003E+22	7,384091E+22
971	3,103581E+22	3,103415E+22	5,884878E+21	5,885288E+21	6,206996E+22	1,177017E+22	7,384012E+22
972	3,103417E+22	3,103483E+22	5,885625E+21	5,884843E+21	6,206900E+22	1,177047E+22	7,383947E+22
973	3,103442E+22	3,103493E+22	5,885142E+21	5,885648E+21	6,206935E+22	1,177079E+22	7,384014E+22
974	3,103486E+22	3,103375E+22	5,885203E+21	5,885213E+21	6,206861E+22	1,177042E+22	7,383902E+22
975	3,103356E+22	3,103543E+22	5,885465E+21	5,884871E+21	6,206899E+22	1,177034E+22	7,383932E+22
976	3,103528E+22	3,103488E+22	5,884592E+21	5,885273E+21	6,207016E+22	1,176987E+22	7,384003E+22
977	3,103559E+22	3,103466E+22	5,884806E+21	5,884318E+21	6,207026E+22	1,176912E+22	7,383938E+22
978	3,103513E+22	3,103658E+22	5,884691E+21	5,884405E+21	6,207171E+22	1,176910E+22	7,384081E+22
979	3,103684E+22	3,103596E+22	5,883987E+21	5,884524E+21	6,207280E+22	1,176851E+22	7,384131E+22
980	3,103605E+22	3,103669E+22	5,884410E+21	5,883750E+21	6,207274E+22	1,176816E+22	7,384090E+22
981	3,103645E+22	3,103729E+22	5,883992E+21	5,884340E+21	6,207373E+22	1,176833E+22	7,384207E+22
982	3,103761E+22	3,103601E+22	5,883871E+21	5,884079E+21	6,207361E+22	1,176795E+22	7,384156E+22
983	3,103608E+22	3,103719E+22	5,884533E+21	5,883790E+21	6,207327E+22	1,176832E+22	7,384159E+22
984	3,103674E+22	3,103671E+22	5,884054E+21	5,884694E+21	6,207345E+22	1,176875E+22	7,384220E+22
985	3,103635E+22	3,103533E+22	5,884553E+21	5,884428E+21	6,207168E+22	1,176898E+22	7,384066E+22
986	3,103430E+22	3,103613E+22	5,885189E+21	5,884833E+21	6,207043E+22	1,177002E+22	7,384045E+22
987	3,103515E+22	3,103452E+22	5,884846E+21	5,885602E+21	6,206968E+22	1,177045E+22	7,384013E+22
988	3,103404E+22	3,103361E+22	5,885690E+21	5,885164E+21	6,206765E+22	1,177085E+22	7,383850E+22
989	3,103325E+22	3,103393E+22	5,885806E+21	5,885898E+21	6,206718E+22	1,177170E+22	7,383888E+22
990	3,103413E+22	3,103241E+22	5,885661E+21	5,886111E+21	6,206655E+22	1,177177E+22	7,383832E+22
991	3,103221E+22	3,103324E+22	5,886390E+21	5,885692E+21	6,206545E+22	1,177208E+22	7,383753E+22
992	3,103264E+22	3,103331E+22	5,885835E+21	5,886408E+21	6,206595E+22	1,177224E+22	7,383819E+22
993	3,103334E+22	3,103207E+22	5,885826E+21	5,885832E+21	6,206541E+22	1,177166E+22	7,383707E+22
994	3,103203E+22	3,103363E+22	5,886180E+21	5,885464E+21	6,206565E+22	1,177164E+22	7,383730E+22
995	3,103384E+22	3,103348E+22	5,885302E+21	5,885853E+21	6,206732E+22	1,177115E+22	7,383847E+22
996	3,103392E+22	3,103343E+22	5,885497E+21	5,884976E+21	6,206735E+22	1,177047E+22	7,383782E+22
997	3,103345E+22	3,103497E+22	5,885349E+21	5,885160E+21	6,206842E+22	1,177051E+22	7,383893E+22
998	3,103529E+22	3,103433E+22	5,884634E+21	5,885240E+21	6,206963E+22	1,176987E+22	7,383950E+22
999	3,103451E+22	3,103503E+22	5,885095E+21	5,884463E+21	6,206954E+22	1,176956E+22	7,383910E+22
1000	3,103507E+22	3,103563E+22	5,884676E+21	5,885013E+21	6,207070E+22	1,176969E+22	7,384039E+22
1001	3,103615E+22	3,103443E+22	5,884564E+21	5,884769E+21	6,207058E+22	1,176933E+22	7,383991E+22
1002	3,103417E+22	3,103546E+22	5,885372E+21	5,884621E+21	6,206963E+22	1,176999E+22	7,383962E+22
1003	3,103463E+22	3,103509E+22	5,884926E+21	5,885572E+21	6,206972E+22	1,177050E+22	7,384021E+22
1004	3,103424E+22	3,103347E+22	5,885442E+21	5,885330E+21	6,206771E+22	1,177077E+22	7,383848E+22
1005	3,103249E+22	3,103373E+22	5,886047E+21	5,885723E+21	6,206623E+22	1,177177E+22	7,383800E+22
1006	3,103358E+22	3,103235E+22	5,885685E+21	5,886416E+21	6,206593E+22	1,177210E+22	7,383803E+22
1007	3,103233E+22	3,103177E+22	5,886528E+21	5,885997E+21	6,206411E+22	1,177253E+22	7,383663E+22
1008	3,103144E+22	3,103232E+22	5,886584E+21	5,886713E+21	6,206377E+22	1,177330E+22	7,383706E+22
1009	3,103223E+22	3,103095E+22	5,886383E+21	5,886869E+21	6,206318E+22	1,177325E+22	7,383643E+22
1010	3,103022E+22	3,103148E+22	5,887189E+21	5,886433E+21	6,206170E+22	1,177362E+22	7,383532E+22
1011	3,103080E+22	3,103170E+22	5,886620E+21	5,887045E+21	6,206250E+22	1,177366E+22	7,383616E+22
1012	3,103169E+22	3,103049E+22	5,886573E+21	5,886474E+21	6,206219E+22	1,177305E+22	7,383523E+22
1013	3,103055E+22	3,103172E+22	5,886866E+21	5,886174E+21	6,206227E+22	1,177304E+22	7,383531E+22
1014	3,103236E+22	3,103190E+22	5,885937E+21	5,886592E+21	6,206427E+22	1,177253E+22	7,383679E+22
1015	3,103231E+22	3,103197E+22	5,886109E+21	5,885753E+21	6,206428E+22	1,177186E+22	7,383614E+22
1016	3,103205E+22	3,103341E+22	5,885931E+21	5,885857E+21	6,206545E+22	1,177179E+22	7,383724E+22
1017	3,103405E+22	3,103281E+22	5,885216E+21	5,885815E+21	6,206686E+22	1,177103E+22	7,383789E+22
1018	3,103308E+22	3,103336E+22	5,885843E+21	5,885089E+21	6,206643E+22	1,177093E+22	7,383737E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1019	3,103336E+22	3,103428E+22	5,885497E+21	5,885665E+21	6,206764E+22	1,177116E+22	7,383880E+22
1020	3,103414E+22	3,103302E+22	5,885409E+21	5,885576E+21	6,206716E+22	1,177098E+22	7,383814E+22
1021	3,103209E+22	3,103341E+22	5,886207E+21	5,885541E+21	6,206550E+22	1,177175E+22	7,383725E+22
1022	3,103274E+22	3,103297E+22	5,885752E+21	5,886462E+21	6,206571E+22	1,177221E+22	7,383793E+22
1023	3,103244E+22	3,103137E+22	5,886267E+21	5,886202E+21	6,206381E+22	1,177247E+22	7,383628E+22
1024	3,103098E+22	3,103174E+22	5,886832E+21	5,886535E+21	6,206273E+22	1,177337E+22	7,383610E+22
1025	3,103203E+22	3,103064E+22	5,886456E+21	5,887180E+21	6,206267E+22	1,177364E+22	7,383631E+22
1026	3,103034E+22	3,103011E+22	5,887402E+21	5,886856E+21	6,206045E+22	1,177426E+22	7,383471E+22
1027	3,102928E+22	3,103088E+22	5,887454E+21	5,887513E+21	6,206016E+22	1,177497E+22	7,383512E+22
1028	3,103016E+22	3,102925E+22	5,887226E+21	5,887651E+21	6,205942E+22	1,177488E+22	7,383429E+22
1029	3,102846E+22	3,102927E+22	5,887959E+21	5,887184E+21	6,205772E+22	1,177514E+22	7,383286E+22
1030	3,102931E+22	3,102973E+22	5,887330E+21	5,887725E+21	6,205904E+22	1,177505E+22	7,383409E+22
1031	3,103013E+22	3,102886E+22	5,887234E+21	5,887192E+21	6,205898E+22	1,177443E+22	7,383341E+22
1032	3,102911E+22	3,103026E+22	5,887426E+21	5,886889E+21	6,205937E+22	1,177431E+22	7,383368E+22
1033	3,103095E+22	3,103057E+22	5,886471E+21	5,887219E+21	6,206153E+22	1,177369E+22	7,383522E+22
1034	3,103084E+22	3,103048E+22	5,886760E+21	5,886382E+21	6,206133E+22	1,177314E+22	7,383447E+22
1035	3,103060E+22	3,103212E+22	5,886637E+21	5,886385E+21	6,206272E+22	1,177302E+22	7,383575E+22
1036	3,103256E+22	3,103147E+22	5,885982E+21	5,886422E+21	6,206403E+22	1,177240E+22	7,383643E+22
1037	3,103142E+22	3,103154E+22	5,886631E+21	5,885858E+21	6,206296E+22	1,177249E+22	7,383545E+22
1038	3,103147E+22	3,103256E+22	5,886292E+21	5,886524E+21	6,206403E+22	1,177282E+22	7,383684E+22
1039	3,103209E+22	3,103118E+22	5,886208E+21	5,886522E+21	6,206327E+22	1,177273E+22	7,383600E+22
1040	3,103039E+22	3,103125E+22	5,886948E+21	5,886424E+21	6,206165E+22	1,177337E+22	7,383502E+22
1041	3,103124E+22	3,103095E+22	5,886488E+21	5,887212E+21	6,206219E+22	1,177370E+22	7,383589E+22
1042	3,103080E+22	3,102943E+22	5,887116E+21	5,886988E+21	6,206024E+22	1,177410E+22	7,383434E+22
1043	3,102905E+22	3,103025E+22	5,887728E+21	5,887295E+21	6,205930E+22	1,177502E+22	7,383433E+22
1044	3,102985E+22	3,102923E+22	5,887370E+21	5,888036E+21	6,205908E+22	1,177541E+22	7,383448E+22
1045	3,102814E+22	3,102808E+22	5,888285E+21	5,887762E+21	6,205622E+22	1,177605E+22	7,383227E+22
1046	3,102729E+22	3,102884E+22	5,888287E+21	5,888325E+21	6,205613E+22	1,177661E+22	7,383274E+22
1047	3,102836E+22	3,102726E+22	5,887992E+21	5,888422E+21	6,205562E+22	1,177641E+22	7,383203E+22
1048	3,102707E+22	3,102729E+22	5,888598E+21	5,887894E+21	6,205436E+22	1,177649E+22	7,383086E+22
1049	3,102799E+22	3,102816E+22	5,887910E+21	5,888364E+21	6,205616E+22	1,177627E+22	7,383243E+22
1050	3,102855E+22	3,102747E+22	5,887876E+21	5,887909E+21	6,205602E+22	1,177578E+22	7,383180E+22
1051	3,102749E+22	3,102913E+22	5,888091E+21	5,887516E+21	6,205662E+22	1,177561E+22	7,383222E+22
1052	3,102946E+22	3,102929E+22	5,887176E+21	5,887824E+21	6,205875E+22	1,177500E+22	7,383375E+22
1053	3,102942E+22	3,102870E+22	5,887470E+21	5,887007E+21	6,205813E+22	1,177448E+22	7,383260E+22
1054	3,102916E+22	3,103050E+22	5,887373E+21	5,887013E+21	6,205966E+22	1,177439E+22	7,383404E+22
1055	3,103075E+22	3,102995E+22	5,886732E+21	5,887178E+21	6,206070E+22	1,177391E+22	7,383461E+22
1056	3,102965E+22	3,102985E+22	5,887309E+21	5,886702E+21	6,205950E+22	1,177401E+22	7,383351E+22
1057	3,102973E+22	3,103077E+22	5,886963E+21	5,887306E+21	6,206051E+22	1,177427E+22	7,383478E+22
1058	3,103029E+22	3,102924E+22	5,886988E+21	5,887343E+21	6,205953E+22	1,177433E+22	7,383386E+22
1059	3,102873E+22	3,102957E+22	5,887755E+21	5,887139E+21	6,205829E+22	1,177489E+22	7,383319E+22
1060	3,102958E+22	3,102927E+22	5,887370E+21	5,887986E+21	6,205885E+22	1,177536E+22	7,383421E+22
1061	3,102891E+22	3,102749E+22	5,888016E+21	5,887883E+21	6,205640E+22	1,177590E+22	7,383230E+22
1062	3,102697E+22	3,102847E+22	5,888625E+21	5,888213E+21	6,205544E+22	1,177684E+22	7,383227E+22
1063	3,102762E+22	3,102732E+22	5,888256E+21	5,888967E+21	6,205494E+22	1,177722E+22	7,383216E+22
1064	3,102634E+22	3,102589E+22	5,889045E+21	5,888608E+21	6,205224E+22	1,177765E+22	7,382989E+22
1065	3,102576E+22	3,102679E+22	5,888975E+21	5,888994E+21	6,205255E+22	1,177797E+22	7,383052E+22
1066	3,102676E+22	3,102545E+22	5,888729E+21	5,889124E+21	6,205221E+22	1,177785E+22	7,383006E+22
1067	3,102540E+22	3,102601E+22	5,889298E+21	5,888537E+21	6,205141E+22	1,177784E+22	7,382924E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1068	3,102629E+22	3,102698E+22	5,888629E+21	5,889065E+21	6,205327E+22	1,177769E+22	7,383097E+22
1069	3,102686E+22	3,102586E+22	5,888577E+21	5,888627E+21	6,205272E+22	1,177720E+22	7,382992E+22
1070	3,102599E+22	3,102756E+22	5,888789E+21	5,888146E+21	6,205355E+22	1,177694E+22	7,383048E+22
1071	3,102795E+22	3,102776E+22	5,887881E+21	5,888451E+21	6,205571E+22	1,177633E+22	7,383204E+22
1072	3,102812E+22	3,102699E+22	5,888099E+21	5,887685E+21	6,205510E+22	1,177578E+22	7,383089E+22
1073	3,102764E+22	3,102896E+22	5,887989E+21	5,887696E+21	6,205661E+22	1,177568E+22	7,383229E+22
1074	3,102889E+22	3,102839E+22	5,887429E+21	5,888008E+21	6,205728E+22	1,177544E+22	7,383272E+22
1075	3,102780E+22	3,102828E+22	5,888034E+21	5,887466E+21	6,205608E+22	1,177550E+22	7,383158E+22
1076	3,102812E+22	3,102901E+22	5,887763E+21	5,888063E+21	6,205713E+22	1,177583E+22	7,383295E+22
1077	3,102870E+22	3,102712E+22	5,887814E+21	5,888121E+21	6,205582E+22	1,177593E+22	7,383176E+22
1078	3,102708E+22	3,102772E+22	5,888624E+21	5,887922E+21	6,205480E+22	1,177655E+22	7,383134E+22
1079	3,102753E+22	3,102761E+22	5,888276E+21	5,888858E+21	6,205514E+22	1,177713E+22	7,383227E+22
1080	3,102688E+22	3,102562E+22	5,888835E+21	5,888819E+21	6,205250E+22	1,177765E+22	7,383015E+22
1081	3,102499E+22	3,102655E+22	5,889407E+21	5,889030E+21	6,205153E+22	1,177844E+22	7,382997E+22
1082	3,102562E+22	3,102533E+22	5,889088E+21	5,889782E+21	6,205095E+22	1,177887E+22	7,382982E+22
1083	3,102457E+22	3,102414E+22	5,889840E+21	5,889299E+21	6,204871E+22	1,177914E+22	7,382785E+22
1084	3,102416E+22	3,102513E+22	5,889781E+21	5,889714E+21	6,204928E+22	1,177950E+22	7,382878E+22
1085	3,102498E+22	3,102370E+22	5,889496E+21	5,889930E+21	6,204869E+22	1,177943E+22	7,382811E+22
1086	3,102370E+22	3,102450E+22	5,890019E+21	5,889327E+21	6,204820E+22	1,177935E+22	7,382754E+22
1087	3,102457E+22	3,102541E+22	5,889358E+21	5,889805E+21	6,204998E+22	1,177916E+22	7,382914E+22
1088	3,102554E+22	3,102412E+22	5,889183E+21	5,889291E+21	6,204966E+22	1,177847E+22	7,382814E+22
1089	3,102481E+22	3,102594E+22	5,889354E+21	5,888667E+21	6,205075E+22	1,177802E+22	7,382877E+22
1090	3,102639E+22	3,102628E+22	5,888543E+21	5,889065E+21	6,205268E+22	1,177761E+22	7,383029E+22
1091	3,102637E+22	3,102581E+22	5,888759E+21	5,888327E+21	6,205218E+22	1,177709E+22	7,382927E+22
1092	3,102588E+22	3,102757E+22	5,888714E+21	5,888440E+21	6,205344E+22	1,177715E+22	7,383060E+22
1093	3,102706E+22	3,102650E+22	5,888191E+21	5,888809E+21	6,205356E+22	1,177700E+22	7,383056E+22
1094	3,102625E+22	3,102641E+22	5,888799E+21	5,888215E+21	6,205265E+22	1,177701E+22	7,382967E+22
1095	3,102651E+22	3,102716E+22	5,888594E+21	5,888817E+21	6,205367E+22	1,177741E+22	7,383108E+22
1096	3,102719E+22	3,102523E+22	5,888588E+21	5,888951E+21	6,205242E+22	1,177754E+22	7,382996E+22
1097	3,102530E+22	3,102603E+22	5,889400E+21	5,888748E+21	6,205132E+22	1,177815E+22	7,382947E+22
1098	3,102531E+22	3,102591E+22	5,889156E+21	5,889791E+21	6,205122E+22	1,177895E+22	7,383017E+22
1099	3,102473E+22	3,102388E+22	5,889709E+21	5,889665E+21	6,204860E+22	1,177937E+22	7,382798E+22
1100	3,102312E+22	3,102457E+22	5,890297E+21	5,889841E+21	6,204769E+22	1,178014E+22	7,382783E+22
1101	3,102377E+22	3,102312E+22	5,889954E+21	5,890592E+21	6,204688E+22	1,178055E+22	7,382743E+22
1102	3,102282E+22	3,102226E+22	5,890656E+21	5,890089E+21	6,204508E+22	1,178074E+22	7,382582E+22
1103	3,102226E+22	3,102351E+22	5,890584E+21	5,890534E+21	6,204577E+22	1,178112E+22	7,382689E+22
1104	3,102334E+22	3,102199E+22	5,890156E+21	5,890745E+21	6,204533E+22	1,178090E+22	7,382623E+22
1105	3,102221E+22	3,102289E+22	5,890619E+21	5,889971E+21	6,204510E+22	1,178059E+22	7,382569E+22
1106	3,102307E+22	3,102390E+22	5,890009E+21	5,890411E+21	6,204696E+22	1,178042E+22	7,382738E+22
1107	3,102413E+22	3,102280E+22	5,889818E+21	5,889801E+21	6,204693E+22	1,177962E+22	7,382655E+22
1108	3,102340E+22	3,102461E+22	5,890043E+21	5,889268E+21	6,204801E+22	1,177931E+22	7,382732E+22
1109	3,102458E+22	3,102474E+22	5,889251E+21	5,889805E+21	6,204932E+22	1,177906E+22	7,382838E+22
1110	3,102460E+22	3,102424E+22	5,889471E+21	5,889117E+21	6,204884E+22	1,177859E+22	7,382743E+22
1111	3,102416E+22	3,102578E+22	5,889482E+21	5,889220E+21	6,204994E+22	1,177870E+22	7,382864E+22
1112	3,102572E+22	3,102448E+22	5,888870E+21	5,889570E+21	6,205020E+22	1,177844E+22	7,382864E+22
1113	3,102496E+22	3,102460E+22	5,889471E+21	5,888883E+21	6,204956E+22	1,177835E+22	7,382791E+22
1114	3,102476E+22	3,102558E+22	5,889394E+21	5,889591E+21	6,205034E+22	1,177899E+22	7,382933E+22
1115	3,102515E+22	3,102390E+22	5,889415E+21	5,889754E+21	6,204905E+22	1,177917E+22	7,382822E+22
1116	3,102323E+22	3,102440E+22	5,890304E+21	5,889633E+21	6,204762E+22	1,177994E+22	7,382756E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1117	3,102305E+22	3,102381E+22	5,890090E+21	5,890691E+21	6,204686E+22	1,178078E+22	7,382764E+22
1118	3,102282E+22	3,102176E+22	5,890607E+21	5,890518E+21	6,204458E+22	1,178113E+22	7,382570E+22
1119	3,102130E+22	3,102241E+22	5,891195E+21	5,890667E+21	6,204370E+22	1,178186E+22	7,382557E+22
1120	3,102214E+22	3,102104E+22	5,890709E+21	5,891459E+21	6,204319E+22	1,178217E+22	7,382536E+22
1121	3,102121E+22	3,102055E+22	5,891305E+21	5,890884E+21	6,204176E+22	1,178219E+22	7,382395E+22
1122	3,102042E+22	3,102192E+22	5,891297E+21	5,891336E+21	6,204234E+22	1,178263E+22	7,382498E+22
1123	3,102169E+22	3,102061E+22	5,890843E+21	5,891374E+21	6,204230E+22	1,178222E+22	7,382452E+22
1124	3,102088E+22	3,102139E+22	5,891322E+21	5,890540E+21	6,204227E+22	1,178186E+22	7,382413E+22
1125	3,102146E+22	3,102225E+22	5,890743E+21	5,890987E+21	6,204371E+22	1,178173E+22	7,382544E+22
1126	3,102249E+22	3,102138E+22	5,890529E+21	5,890441E+21	6,204387E+22	1,178097E+22	7,382484E+22
1127	3,102153E+22	3,102312E+22	5,890774E+21	5,890007E+21	6,204466E+22	1,178078E+22	7,382544E+22
1128	3,102292E+22	3,102299E+22	5,889881E+21	5,890607E+21	6,204591E+22	1,178049E+22	7,382640E+22
1129	3,102319E+22	3,102249E+22	5,890054E+21	5,889813E+21	6,204568E+22	1,177987E+22	7,382554E+22
1130	3,102272E+22	3,102407E+22	5,890165E+21	5,889926E+21	6,204680E+22	1,178009E+22	7,382689E+22
1131	3,102430E+22	3,102303E+22	5,889591E+21	5,890215E+21	6,204733E+22	1,177981E+22	7,382713E+22
1132	3,102343E+22	3,102314E+22	5,890279E+21	5,889649E+21	6,204657E+22	1,177993E+22	7,382650E+22
1133	3,102263E+22	3,102390E+22	5,890281E+21	5,890478E+21	6,204653E+22	1,178076E+22	7,382729E+22
1134	3,102300E+22	3,102208E+22	5,890334E+21	5,890686E+21	6,204508E+22	1,178102E+22	7,382610E+22
1135	3,102115E+22	3,102225E+22	5,891259E+21	5,890543E+21	6,204340E+22	1,178180E+22	7,382520E+22
1136	3,102133E+22	3,102140E+22	5,890907E+21	5,891563E+21	6,204274E+22	1,178247E+22	7,382521E+22
1137	3,102121E+22	3,101960E+22	5,891350E+21	5,891292E+21	6,204081E+22	1,178264E+22	7,382345E+22
1138	3,101945E+22	3,102061E+22	5,891971E+21	5,891498E+21	6,204006E+22	1,178347E+22	7,382353E+22
1139	3,102024E+22	3,101962E+22	5,891457E+21	5,892223E+21	6,203986E+22	1,178368E+22	7,382354E+22
1140	3,101950E+22	3,101908E+22	5,892071E+21	5,891635E+21	6,203858E+22	1,178371E+22	7,382229E+22
1141	3,101858E+22	3,102024E+22	5,892088E+21	5,892019E+21	6,203882E+22	1,178411E+22	7,382292E+22
1142	3,102010E+22	3,101903E+22	5,891605E+21	5,891993E+21	6,203913E+22	1,178360E+22	7,382273E+22
1143	3,101929E+22	3,101975E+22	5,892093E+21	5,891178E+21	6,203904E+22	1,178327E+22	7,382231E+22
1144	3,101989E+22	3,102054E+22	5,891376E+21	5,891714E+21	6,204043E+22	1,178309E+22	7,382352E+22
1145	3,102090E+22	3,101984E+22	5,891085E+21	5,891179E+21	6,204074E+22	1,178226E+22	7,382300E+22
1146	3,101989E+22	3,102151E+22	5,891390E+21	5,890792E+21	6,204139E+22	1,178218E+22	7,382357E+22
1147	3,102153E+22	3,102147E+22	5,890506E+21	5,891253E+21	6,204300E+22	1,178176E+22	7,382476E+22
1148	3,102209E+22	3,102092E+22	5,890721E+21	5,890437E+21	6,204301E+22	1,178116E+22	7,382417E+22
1149	3,102117E+22	3,102244E+22	5,890938E+21	5,890583E+21	6,204360E+22	1,178152E+22	7,382512E+22
1150	3,102254E+22	3,102162E+22	5,890420E+21	5,890963E+21	6,204417E+22	1,178138E+22	7,382555E+22
1151	3,102136E+22	3,102149E+22	5,891188E+21	5,890516E+21	6,204285E+22	1,178170E+22	7,382455E+22
1152	3,102057E+22	3,102185E+22	5,891117E+21	5,891394E+21	6,204242E+22	1,178251E+22	7,382493E+22
1153	3,102117E+22	3,101996E+22	5,891104E+21	5,891525E+21	6,204113E+22	1,178263E+22	7,382376E+22
1154	3,101932E+22	3,102007E+22	5,892074E+21	5,891388E+21	6,203939E+22	1,178346E+22	7,382285E+22
1155	3,101961E+22	3,101955E+22	5,891713E+21	5,892325E+21	6,203915E+22	1,178404E+22	7,382319E+22
1156	3,101954E+22	3,101793E+22	5,892155E+21	5,892118E+21	6,203747E+22	1,178427E+22	7,382174E+22
1157	3,101733E+22	3,101892E+22	5,892820E+21	5,892368E+21	6,203625E+22	1,178519E+22	7,382144E+22
1158	3,101829E+22	3,101799E+22	5,892320E+21	5,893046E+21	6,203628E+22	1,178537E+22	7,382164E+22
1159	3,101771E+22	3,101727E+22	5,892932E+21	5,892386E+21	6,203498E+22	1,178532E+22	7,382029E+22
1160	3,101705E+22	3,101828E+22	5,892799E+21	5,892708E+21	6,203532E+22	1,178551E+22	7,382083E+22
1161	3,101863E+22	3,101732E+22	5,892222E+21	5,892625E+21	6,203594E+22	1,178485E+22	7,382079E+22
1162	3,101756E+22	3,101822E+22	5,892720E+21	5,891908E+21	6,203578E+22	1,178463E+22	7,382041E+22
1163	3,101818E+22	3,101921E+22	5,891973E+21	5,892392E+21	6,203740E+22	1,178436E+22	7,382176E+22
1164	3,101949E+22	3,101841E+22	5,891698E+21	5,891860E+21	6,203790E+22	1,178356E+22	7,382146E+22
1165	3,101840E+22	3,101988E+22	5,892063E+21	5,891435E+21	6,203828E+22	1,178350E+22	7,382178E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1166	3,102024E+22	3,101994E+22	5,891242E+21	5,891855E+21	6,204018E+22	1,178310E+22	7,382328E+22
1167	3,102064E+22	3,101939E+22	5,891528E+21	5,891114E+21	6,204003E+22	1,178264E+22	7,382268E+22
1168	3,101951E+22	3,102077E+22	5,891671E+21	5,891372E+21	6,204027E+22	1,178304E+22	7,382332E+22
1169	3,102063E+22	3,101994E+22	5,891148E+21	5,891802E+21	6,204058E+22	1,178295E+22	7,382353E+22
1170	3,101932E+22	3,101957E+22	5,891997E+21	5,891429E+21	6,203889E+22	1,178343E+22	7,382232E+22
1171	3,101874E+22	3,101989E+22	5,891923E+21	5,892175E+21	6,203863E+22	1,178410E+22	7,382272E+22
1172	3,101960E+22	3,101798E+22	5,891923E+21	5,892302E+21	6,203758E+22	1,178423E+22	7,382180E+22
1173	3,101739E+22	3,101810E+22	5,892940E+21	5,892200E+21	6,203549E+22	1,178514E+22	7,382063E+22
1174	3,101761E+22	3,101786E+22	5,892609E+21	5,893178E+21	6,203547E+22	1,178579E+22	7,382126E+22
1175	3,101744E+22	3,101623E+22	5,893073E+21	5,893019E+21	6,203367E+22	1,178609E+22	7,381976E+22
1176	3,101543E+22	3,101695E+22	5,893617E+21	5,893229E+21	6,203237E+22	1,178685E+22	7,381922E+22
1177	3,101665E+22	3,101612E+22	5,893043E+21	5,893778E+21	6,203277E+22	1,178682E+22	7,381959E+22
1178	3,101609E+22	3,101545E+22	5,893650E+21	5,893108E+21	6,203154E+22	1,178676E+22	7,381830E+22
1179	3,101549E+22	3,101673E+22	5,893463E+21	5,893333E+21	6,203222E+22	1,178680E+22	7,381902E+22
1180	3,101712E+22	3,101594E+22	5,892849E+21	5,893318E+21	6,203305E+22	1,178617E+22	7,381922E+22
1181	3,101572E+22	3,101668E+22	5,893384E+21	5,892644E+21	6,203241E+22	1,178603E+22	7,381843E+22
1182	3,101665E+22	3,101771E+22	5,892686E+21	5,893071E+21	6,203436E+22	1,178576E+22	7,382012E+22
1183	3,101816E+22	3,101677E+22	5,892433E+21	5,892494E+21	6,203493E+22	1,178493E+22	7,381986E+22
1184	3,101715E+22	3,101812E+22	5,892712E+21	5,892058E+21	6,203527E+22	1,178477E+22	7,382004E+22
1185	3,101885E+22	3,101845E+22	5,891885E+21	5,892483E+21	6,203730E+22	1,178437E+22	7,382167E+22
1186	3,101880E+22	3,101792E+22	5,892238E+21	5,891904E+21	6,203672E+22	1,178414E+22	7,382086E+22
1187	3,101753E+22	3,101928E+22	5,892415E+21	5,892142E+21	6,203681E+22	1,178456E+22	7,382137E+22
1188	3,101882E+22	3,101824E+22	5,891927E+21	5,892605E+21	6,203706E+22	1,178453E+22	7,382159E+22
1189	3,101734E+22	3,101755E+22	5,892846E+21	5,892242E+21	6,203489E+22	1,178509E+22	7,381998E+22
1190	3,101699E+22	3,101791E+22	5,892827E+21	5,892967E+21	6,203490E+22	1,178579E+22	7,382069E+22
1191	3,101776E+22	3,101604E+22	5,892854E+21	5,893176E+21	6,203380E+22	1,178603E+22	7,381983E+22
1192	3,101548E+22	3,101611E+22	5,893745E+21	5,893154E+21	6,203159E+22	1,178690E+22	7,381849E+22
1193	3,101568E+22	3,101600E+22	5,893396E+21	5,894103E+21	6,203168E+22	1,178750E+22	7,381918E+22
1194	3,101552E+22	3,101432E+22	5,893885E+21	5,893921E+21	6,202984E+22	1,178781E+22	7,381765E+22
1195	3,101380E+22	3,101513E+22	5,894376E+21	5,893922E+21	6,202894E+22	1,178830E+22	7,381723E+22
1196	3,101520E+22	3,101444E+22	5,893777E+21	5,894412E+21	6,202963E+22	1,178819E+22	7,381782E+22
1197	3,101425E+22	3,101384E+22	5,894399E+21	5,893782E+21	6,202808E+22	1,178818E+22	7,381626E+22
1198	3,101364E+22	3,101528E+22	5,894223E+21	5,894025E+21	6,202892E+22	1,178825E+22	7,381717E+22
1199	3,101527E+22	3,101444E+22	5,893612E+21	5,894058E+21	6,202971E+22	1,178767E+22	7,381738E+22
1200	3,101422E+22	3,101491E+22	5,893995E+21	5,893354E+21	6,202913E+22	1,178735E+22	7,381648E+22
1201	3,101541E+22	3,101602E+22	5,893282E+21	5,893684E+21	6,203143E+22	1,178697E+22	7,381839E+22
1202	3,101685E+22	3,101524E+22	5,893065E+21	5,893138E+21	6,203208E+22	1,178620E+22	7,381829E+22
1203	3,101578E+22	3,101677E+22	5,893345E+21	5,892664E+21	6,203255E+22	1,178601E+22	7,381856E+22
1204	3,101724E+22	3,101719E+22	5,892559E+21	5,893191E+21	6,203443E+22	1,178575E+22	7,382018E+22
1205	3,101672E+22	3,101635E+22	5,893016E+21	5,892727E+21	6,203306E+22	1,178574E+22	7,381880E+22
1206	3,101563E+22	3,101746E+22	5,893280E+21	5,892941E+21	6,203310E+22	1,178622E+22	7,381932E+22
1207	3,101706E+22	3,101624E+22	5,892828E+21	5,893418E+21	6,203329E+22	1,178625E+22	7,381954E+22
1208	3,101570E+22	3,101532E+22	5,893630E+21	5,893077E+21	6,203103E+22	1,178671E+22	7,381773E+22
1209	3,101529E+22	3,101593E+22	5,893613E+21	5,893816E+21	6,203122E+22	1,178743E+22	7,381865E+22
1210	3,101575E+22	3,101425E+22	5,893667E+21	5,894124E+21	6,203000E+22	1,178779E+22	7,381779E+22
1211	3,101354E+22	3,101440E+22	5,894545E+21	5,894006E+21	6,202794E+22	1,178855E+22	7,381649E+22
1212	3,101395E+22	3,101430E+22	5,894210E+21	5,894880E+21	6,202825E+22	1,178909E+22	7,381734E+22
1213	3,101360E+22	3,101247E+22	5,894746E+21	5,894663E+21	6,202607E+22	1,178941E+22	7,381548E+22
1214	3,101205E+22	3,101341E+22	5,895259E+21	5,894603E+21	6,202546E+22	1,178986E+22	7,381532E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1215	3,101333E+22	3,101279E+22	5,894631E+21	5,895160E+21	6,202612E+22	1,178979E+22	7,381591E+22
1216	3,101232E+22	3,101202E+22	5,895081E+21	5,894608E+21	6,202434E+22	1,178969E+22	7,381403E+22
1217	3,101194E+22	3,101352E+22	5,894867E+21	5,894811E+21	6,202546E+22	1,178968E+22	7,381514E+22
1218	3,101373E+22	3,101269E+22	5,894248E+21	5,894806E+21	6,202642E+22	1,178905E+22	7,381548E+22
1219	3,101307E+22	3,101333E+22	5,894572E+21	5,893928E+21	6,202640E+22	1,178850E+22	7,381490E+22
1220	3,101432E+22	3,101468E+22	5,893881E+21	5,894215E+21	6,202900E+22	1,178810E+22	7,381709E+22
1221	3,101515E+22	3,101396E+22	5,893749E+21	5,893768E+21	6,202911E+22	1,178752E+22	7,381663E+22
1222	3,101393E+22	3,101550E+22	5,894118E+21	5,893359E+21	6,202943E+22	1,178748E+22	7,381691E+22
1223	3,101524E+22	3,101566E+22	5,893399E+21	5,893971E+21	6,203090E+22	1,178737E+22	7,381827E+22
1224	3,101491E+22	3,101433E+22	5,893762E+21	5,893556E+21	6,202924E+22	1,178732E+22	7,381656E+22
1225	3,101411E+22	3,101535E+22	5,894036E+21	5,893731E+21	6,202946E+22	1,178777E+22	7,381723E+22
1226	3,101543E+22	3,101423E+22	5,893616E+21	5,894269E+21	6,202966E+22	1,178788E+22	7,381755E+22
1227	3,101410E+22	3,101355E+22	5,894370E+21	5,893902E+21	6,202765E+22	1,178827E+22	7,381593E+22
1228	3,101351E+22	3,101435E+22	5,894394E+21	5,894674E+21	6,202786E+22	1,178907E+22	7,381692E+22
1229	3,101359E+22	3,101254E+22	5,894557E+21	5,895019E+21	6,202614E+22	1,178958E+22	7,381571E+22
1230	3,101163E+22	3,101256E+22	5,895504E+21	5,894801E+21	6,202419E+22	1,179030E+22	7,381450E+22
1231	3,101205E+22	3,101242E+22	5,895185E+21	5,895638E+21	6,202447E+22	1,179082E+22	7,381529E+22
1232	3,101174E+22	3,101043E+22	5,895551E+21	5,895451E+21	6,202217E+22	1,179100E+22	7,381317E+22
1233	3,101017E+22	3,101149E+22	5,896005E+21	5,895406E+21	6,202166E+22	1,179141E+22	7,381307E+22
1234	3,101129E+22	3,101105E+22	5,895338E+21	5,896018E+21	6,202234E+22	1,179136E+22	7,381369E+22
1235	3,101070E+22	3,101034E+22	5,895682E+21	5,895344E+21	6,202104E+22	1,179103E+22	7,381206E+22
1236	3,101069E+22	3,101196E+22	5,895458E+21	5,895429E+21	6,202266E+22	1,179089E+22	7,381354E+22
1237	3,101235E+22	3,101122E+22	5,894903E+21	5,895386E+21	6,202357E+22	1,179029E+22	7,381386E+22
1238	3,101179E+22	3,101201E+22	5,895288E+21	5,894470E+21	6,202380E+22	1,178976E+22	7,381356E+22
1239	3,101272E+22	3,101346E+22	5,894644E+21	5,894857E+21	6,202618E+22	1,178950E+22	7,381568E+22
1240	3,101331E+22	3,101241E+22	5,894419E+21	5,894554E+21	6,202571E+22	1,178897E+22	7,381469E+22
1241	3,101220E+22	3,101367E+22	5,894832E+21	5,894172E+21	6,202587E+22	1,178900E+22	7,381488E+22
1242	3,101353E+22	3,101371E+22	5,894142E+21	5,894787E+21	6,202723E+22	1,178893E+22	7,381616E+22
1243	3,101353E+22	3,101238E+22	5,894447E+21	5,894280E+21	6,202592E+22	1,178873E+22	7,381464E+22
1244	3,101275E+22	3,101361E+22	5,894755E+21	5,894445E+21	6,202637E+22	1,178920E+22	7,381557E+22
1245	3,101347E+22	3,101261E+22	5,894444E+21	5,895089E+21	6,202608E+22	1,178953E+22	7,381561E+22
1246	3,101205E+22	3,101201E+22	5,895285E+21	5,894749E+21	6,202407E+22	1,179003E+22	7,381410E+22
1247	3,101139E+22	3,101265E+22	5,895372E+21	5,895543E+21	6,202404E+22	1,179092E+22	7,381495E+22
1248	3,101153E+22	3,101043E+22	5,895441E+21	5,895902E+21	6,202197E+22	1,179134E+22	7,381331E+22
1249	3,100984E+22	3,101039E+22	5,896373E+21	5,895636E+21	6,202023E+22	1,179201E+22	7,381224E+22
1250	3,101011E+22	3,101038E+22	5,896020E+21	5,896487E+21	6,202049E+22	1,179251E+22	7,381300E+22
1251	3,100994E+22	3,100859E+22	5,896250E+21	5,896279E+21	6,201853E+22	1,179253E+22	7,381106E+22
1252	3,100846E+22	3,100981E+22	5,896655E+21	5,896202E+21	6,201827E+22	1,179286E+22	7,381113E+22
1253	3,100945E+22	3,100936E+22	5,896049E+21	5,896785E+21	6,201881E+22	1,179283E+22	7,381164E+22
1254	3,100932E+22	3,100877E+22	5,896411E+21	5,895957E+21	6,201810E+22	1,179237E+22	7,381047E+22
1255	3,100941E+22	3,101053E+22	5,896210E+21	5,895987E+21	6,201993E+22	1,179220E+22	7,381213E+22
1256	3,101089E+22	3,100973E+22	5,895560E+21	5,895992E+21	6,202062E+22	1,179155E+22	7,381217E+22
1257	3,101022E+22	3,101056E+22	5,895955E+21	5,895155E+21	6,202078E+22	1,179111E+22	7,381189E+22
1258	3,101077E+22	3,101199E+22	5,895337E+21	5,895617E+21	6,202276E+22	1,179095E+22	7,381372E+22
1259	3,101167E+22	3,101075E+22	5,895045E+21	5,895290E+21	6,202243E+22	1,179034E+22	7,381276E+22
1260	3,101083E+22	3,101192E+22	5,895476E+21	5,894852E+21	6,202275E+22	1,179033E+22	7,381308E+22
1261	3,101194E+22	3,101196E+22	5,894898E+21	5,895498E+21	6,202390E+22	1,179040E+22	7,381430E+22
1262	3,101203E+22	3,101076E+22	5,895262E+21	5,894993E+21	6,202280E+22	1,179026E+22	7,381305E+22
1263	3,101090E+22	3,101209E+22	5,895631E+21	5,895272E+21	6,202300E+22	1,179090E+22	7,381390E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1264	3,101136E+22	3,101081E+22	5,895270E+21	5,896028E+21	6,202217E+22	1,179130E+22	7,381347E+22
1265	3,101012E+22	3,100992E+22	5,896168E+21	5,895691E+21	6,202004E+22	1,179186E+22	7,381190E+22
1266	3,100940E+22	3,101053E+22	5,896275E+21	5,896425E+21	6,201993E+22	1,179270E+22	7,381263E+22
1267	3,100987E+22	3,100834E+22	5,896233E+21	5,896700E+21	6,201821E+22	1,179293E+22	7,381115E+22
1268	3,100817E+22	3,100849E+22	5,897125E+21	5,896398E+21	6,201666E+22	1,179352E+22	7,381018E+22
1269	3,100796E+22	3,100865E+22	5,896818E+21	5,897307E+21	6,201661E+22	1,179412E+22	7,381074E+22
1270	3,100797E+22	3,100698E+22	5,897053E+21	5,897053E+21	6,201495E+22	1,179411E+22	7,380905E+22
1271	3,100671E+22	3,100821E+22	5,897460E+21	5,896940E+21	6,201492E+22	1,179440E+22	7,380932E+22
1272	3,100790E+22	3,100757E+22	5,896759E+21	5,897479E+21	6,201547E+22	1,179424E+22	7,380971E+22
1273	3,100807E+22	3,100707E+22	5,897113E+21	5,896607E+21	6,201514E+22	1,179372E+22	7,380886E+22
1274	3,100788E+22	3,100905E+22	5,896902E+21	5,896640E+21	6,201693E+22	1,179354E+22	7,381047E+22
1275	3,100933E+22	3,100836E+22	5,896145E+21	5,896679E+21	6,201769E+22	1,179282E+22	7,381052E+22
1276	3,100863E+22	3,100914E+22	5,896541E+21	5,895863E+21	6,201777E+22	1,179240E+22	7,381018E+22
1277	3,100895E+22	3,101034E+22	5,896040E+21	5,896339E+21	6,201929E+22	1,179238E+22	7,381167E+22
1278	3,101019E+22	3,100910E+22	5,895798E+21	5,895942E+21	6,201928E+22	1,179174E+22	7,381102E+22
1279	3,100943E+22	3,101028E+22	5,896253E+21	5,895529E+21	6,201971E+22	1,179178E+22	7,381149E+22
1280	3,101024E+22	3,101015E+22	5,895646E+21	5,896270E+21	6,202039E+22	1,179192E+22	7,381231E+22
1281	3,101026E+22	3,100901E+22	5,896047E+21	5,895860E+21	6,201927E+22	1,179191E+22	7,381118E+22
1282	3,100882E+22	3,101032E+22	5,896464E+21	5,896163E+21	6,201914E+22	1,179263E+22	7,381177E+22
1283	3,100954E+22	3,100889E+22	5,896056E+21	5,896880E+21	6,201843E+22	1,179294E+22	7,381137E+22
1284	3,100849E+22	3,100797E+22	5,896961E+21	5,896474E+21	6,201646E+22	1,179344E+22	7,380990E+22
1285	3,100745E+22	3,100859E+22	5,897159E+21	5,897210E+21	6,201603E+22	1,179437E+22	7,381040E+22
1286	3,100798E+22	3,100659E+22	5,897132E+21	5,897485E+21	6,201458E+22	1,179462E+22	7,380919E+22
1287	3,100613E+22	3,100681E+22	5,897994E+21	5,897264E+21	6,201295E+22	1,179526E+22	7,380820E+22
1288	3,100585E+22	3,100670E+22	5,897617E+21	5,898207E+21	6,201255E+22	1,179582E+22	7,380838E+22
1289	3,100632E+22	3,100497E+22	5,897837E+21	5,897888E+21	6,201129E+22	1,179572E+22	7,380701E+22
1290	3,100516E+22	3,100638E+22	5,898211E+21	5,897650E+21	6,201155E+22	1,179586E+22	7,380741E+22
1291	3,100666E+22	3,100596E+22	5,897394E+21	5,898103E+21	6,201262E+22	1,179550E+22	7,380811E+22
1292	3,100672E+22	3,100570E+22	5,897706E+21	5,897205E+21	6,201242E+22	1,179491E+22	7,380733E+22
1293	3,100596E+22	3,100779E+22	5,897574E+21	5,897302E+21	6,201376E+22	1,179488E+22	7,380863E+22
1294	3,100753E+22	3,100705E+22	5,896846E+21	5,897325E+21	6,201458E+22	1,179417E+22	7,380875E+22
1295	3,100698E+22	3,100761E+22	5,897263E+21	5,896541E+21	6,201458E+22	1,179380E+22	7,380839E+22
1296	3,100738E+22	3,100849E+22	5,896727E+21	5,897029E+21	6,201587E+22	1,179376E+22	7,380963E+22
1297	3,100891E+22	3,100721E+22	5,896515E+21	5,896667E+21	6,201612E+22	1,179318E+22	7,380930E+22
1298	3,100784E+22	3,100861E+22	5,896985E+21	5,896296E+21	6,201645E+22	1,179328E+22	7,380973E+22
1299	3,100862E+22	3,100855E+22	5,896321E+21	5,897097E+21	6,201717E+22	1,179342E+22	7,381058E+22
1300	3,100855E+22	3,100735E+22	5,896760E+21	5,896688E+21	6,201589E+22	1,179345E+22	7,380934E+22
1301	3,100684E+22	3,100849E+22	5,897326E+21	5,896975E+21	6,201533E+22	1,179430E+22	7,380963E+22
1302	3,100775E+22	3,100708E+22	5,896979E+21	5,897615E+21	6,201483E+22	1,179459E+22	7,380943E+22
1303	3,100666E+22	3,100616E+22	5,897901E+21	5,897269E+21	6,201282E+22	1,179517E+22	7,380799E+22
1304	3,100527E+22	3,100657E+22	5,898046E+21	5,898090E+21	6,201184E+22	1,179614E+22	7,380798E+22
1305	3,100587E+22	3,100459E+22	5,898004E+21	5,898440E+21	6,201046E+22	1,179644E+22	7,380691E+22
1306	3,100402E+22	3,100485E+22	5,898818E+21	5,898176E+21	6,200887E+22	1,179699E+22	7,380586E+22
1307	3,100424E+22	3,100474E+22	5,898333E+21	5,899019E+21	6,200898E+22	1,179735E+22	7,380633E+22
1308	3,100503E+22	3,100326E+22	5,898494E+21	5,898564E+21	6,200828E+22	1,179706E+22	7,380534E+22
1309	3,100364E+22	3,100483E+22	5,898933E+21	5,898278E+21	6,200847E+22	1,179721E+22	7,380568E+22
1310	3,100505E+22	3,100472E+22	5,898127E+21	5,898701E+21	6,200978E+22	1,179683E+22	7,380660E+22
1311	3,100494E+22	3,100450E+22	5,898405E+21	5,897907E+21	6,200944E+22	1,179631E+22	7,380575E+22
1312	3,100400E+22	3,100608E+22	5,898256E+21	5,898047E+21	6,201008E+22	1,179630E+22	7,380638E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1313	3,100600E+22	3,100516E+22	5,897550E+21	5,898055E+21	6,201117E+22	1,179560E+22	7,380677E+22
1314	3,100558E+22	3,100578E+22	5,897936E+21	5,897204E+21	6,201136E+22	1,179514E+22	7,380650E+22
1315	3,100622E+22	3,100675E+22	5,897336E+21	5,897688E+21	6,201298E+22	1,179502E+22	7,380800E+22
1316	3,100756E+22	3,100578E+22	5,897113E+21	5,897344E+21	6,201333E+22	1,179446E+22	7,380779E+22
1317	3,100594E+22	3,100721E+22	5,897713E+21	5,897051E+21	6,201315E+22	1,179476E+22	7,380791E+22
1318	3,100672E+22	3,100714E+22	5,897157E+21	5,897828E+21	6,201386E+22	1,179498E+22	7,380884E+22
1319	3,100670E+22	3,100573E+22	5,897646E+21	5,897485E+21	6,201244E+22	1,179513E+22	7,380757E+22
1320	3,100486E+22	3,100643E+22	5,898233E+21	5,897799E+21	6,201129E+22	1,179603E+22	7,380732E+22
1321	3,100593E+22	3,100496E+22	5,897911E+21	5,898500E+21	6,201089E+22	1,179641E+22	7,380730E+22
1322	3,100456E+22	3,100416E+22	5,898782E+21	5,898200E+21	6,200871E+22	1,179698E+22	7,380570E+22
1323	3,100332E+22	3,100455E+22	5,898810E+21	5,899059E+21	6,200787E+22	1,179787E+22	7,380574E+22
1324	3,100410E+22	3,100261E+22	5,898727E+21	5,899326E+21	6,200670E+22	1,179805E+22	7,380476E+22
1325	3,100226E+22	3,100296E+22	5,899600E+21	5,898964E+21	6,200521E+22	1,179856E+22	7,380378E+22
1326	3,100280E+22	3,100314E+22	5,899134E+21	5,899643E+21	6,200594E+22	1,179878E+22	7,380471E+22
1327	3,100349E+22	3,100187E+22	5,899272E+21	5,899202E+21	6,200536E+22	1,179847E+22	7,380383E+22
1328	3,100170E+22	3,100331E+22	5,899672E+21	5,898963E+21	6,200501E+22	1,179863E+22	7,380364E+22
1329	3,100317E+22	3,100313E+22	5,898865E+21	5,899437E+21	6,200630E+22	1,179830E+22	7,380460E+22
1330	3,100303E+22	3,100283E+22	5,899103E+21	5,898627E+21	6,200586E+22	1,179773E+22	7,380359E+22
1331	3,100262E+22	3,100424E+22	5,898850E+21	5,898731E+21	6,200686E+22	1,179758E+22	7,380444E+22
1332	3,100486E+22	3,100350E+22	5,898111E+21	5,898670E+21	6,200835E+22	1,179678E+22	7,380513E+22
1333	3,100423E+22	3,100428E+22	5,898576E+21	5,897844E+21	6,200851E+22	1,179642E+22	7,380493E+22
1334	3,100474E+22	3,100554E+22	5,898046E+21	5,898334E+21	6,201028E+22	1,179638E+22	7,380666E+22
1335	3,100580E+22	3,100458E+22	5,897865E+21	5,898124E+21	6,201038E+22	1,179599E+22	7,380636E+22
1336	3,100391E+22	3,100543E+22	5,898539E+21	5,897881E+21	6,200934E+22	1,179642E+22	7,380576E+22
1337	3,100494E+22	3,100513E+22	5,898063E+21	5,898659E+21	6,201006E+22	1,179672E+22	7,380678E+22
1338	3,100486E+22	3,100371E+22	5,898539E+21	5,898313E+21	6,200857E+22	1,179685E+22	7,380542E+22
1339	3,100313E+22	3,100430E+22	5,899042E+21	5,898673E+21	6,200743E+22	1,179771E+22	7,380515E+22
1340	3,100404E+22	3,100307E+22	5,898669E+21	5,899389E+21	6,200711E+22	1,179806E+22	7,380517E+22
1341	3,100242E+22	3,100226E+22	5,899578E+21	5,899110E+21	6,200469E+22	1,179869E+22	7,380337E+22
1342	3,100142E+22	3,100276E+22	5,899658E+21	5,899852E+21	6,200418E+22	1,179951E+22	7,380369E+22
1343	3,100242E+22	3,100098E+22	5,899557E+21	5,900090E+21	6,200339E+22	1,179965E+22	7,380304E+22
1344	3,100052E+22	3,100107E+22	5,900434E+21	5,899685E+21	6,200159E+22	1,180012E+22	7,380171E+22
1345	3,100118E+22	3,100140E+22	5,899993E+21	5,900364E+21	6,200258E+22	1,180036E+22	7,380294E+22
1346	3,100155E+22	3,100036E+22	5,900044E+21	5,899954E+21	6,200190E+22	1,180000E+22	7,380190E+22
1347	3,099990E+22	3,100159E+22	5,900313E+21	5,899758E+21	6,200148E+22	1,180007E+22	7,380155E+22
1348	3,100155E+22	3,100140E+22	5,899452E+21	5,900146E+21	6,200295E+22	1,179960E+22	7,380255E+22
1349	3,100154E+22	3,100109E+22	5,899720E+21	5,899280E+21	6,200263E+22	1,179900E+22	7,380163E+22
1350	3,100145E+22	3,100277E+22	5,899510E+21	5,899276E+21	6,200421E+22	1,179879E+22	7,380300E+22
1351	3,100357E+22	3,100230E+22	5,898777E+21	5,899291E+21	6,200586E+22	1,179807E+22	7,380393E+22
1352	3,100247E+22	3,100287E+22	5,899277E+21	5,898560E+21	6,200534E+22	1,179784E+22	7,380317E+22
1353	3,100297E+22	3,100401E+22	5,898837E+21	5,899107E+21	6,200697E+22	1,179794E+22	7,380492E+22
1354	3,100387E+22	3,100291E+22	5,898674E+21	5,898910E+21	6,200678E+22	1,179758E+22	7,380436E+22
1355	3,100234E+22	3,100343E+22	5,899295E+21	5,898692E+21	6,200576E+22	1,179799E+22	7,380375E+22
1356	3,100339E+22	3,100315E+22	5,898813E+21	5,899424E+21	6,200654E+22	1,179824E+22	7,380478E+22
1357	3,100302E+22	3,100180E+22	5,899352E+21	5,899155E+21	6,200483E+22	1,179851E+22	7,380333E+22
1358	3,100124E+22	3,100260E+22	5,899873E+21	5,899514E+21	6,200384E+22	1,179939E+22	7,380322E+22
1359	3,100200E+22	3,100137E+22	5,899510E+21	5,900307E+21	6,200337E+22	1,179982E+22	7,380319E+22
1360	3,100034E+22	3,100017E+22	5,900454E+21	5,899998E+21	6,200052E+22	1,180045E+22	7,380097E+22
1361	3,099974E+22	3,100069E+22	5,900584E+21	5,900656E+21	6,200043E+22	1,180124E+22	7,380168E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1362	3,100064E+22	3,099917E+22	5,900446E+21	5,900834E+21	6,199981E+22	1,180128E+22	7,380109E+22
1363	3,099884E+22	3,099927E+22	5,901194E+21	5,900465E+21	6,199812E+22	1,180166E+22	7,379977E+22
1364	3,099927E+22	3,09982E+22	5,900676E+21	5,901111E+21	6,199909E+22	1,180179E+22	7,380088E+22
1365	3,099949E+22	3,099874E+22	5,900731E+21	5,900727E+21	6,199823E+22	1,180146E+22	7,379969E+22
1366	3,099822E+22	3,099998E+22	5,900994E+21	5,900415E+21	6,199820E+22	1,180141E+22	7,379961E+22
1367	3,100015E+22	3,099992E+22	5,900107E+21	5,900789E+21	6,200007E+22	1,180090E+22	7,380096E+22
1368	3,100015E+22	3,099939E+22	5,900388E+21	5,899916E+21	6,199954E+22	1,180030E+22	7,379985E+22
1369	3,100017E+22	3,100124E+22	5,900236E+21	5,899941E+21	6,200141E+22	1,180018E+22	7,380159E+22
1370	3,100190E+22	3,100101E+22	5,899483E+21	5,900012E+21	6,200291E+22	1,179949E+22	7,380240E+22
1371	3,100088E+22	3,100121E+22	5,899930E+21	5,899366E+21	6,200209E+22	1,179930E+22	7,380139E+22
1372	3,100137E+22	3,100228E+22	5,899518E+21	5,899832E+21	6,200365E+22	1,179935E+22	7,380300E+22
1373	3,100225E+22	3,100107E+22	5,899418E+21	5,899641E+21	6,200332E+22	1,179906E+22	7,380238E+22
1374	3,100078E+22	3,100166E+22	5,900102E+21	5,899378E+21	6,200244E+22	1,179948E+22	7,380192E+22
1375	3,100157E+22	3,100160E+22	5,899630E+21	5,900214E+21	6,200318E+22	1,179984E+22	7,380302E+22
1376	3,100080E+22	3,099992E+22	5,900204E+21	5,900047E+21	6,200072E+22	1,180025E+22	7,380097E+22
1377	3,099919E+22	3,100061E+22	5,900797E+21	5,900426E+21	6,199980E+22	1,180122E+22	7,380102E+22
1378	3,099995E+22	3,099944E+22	5,900425E+21	5,901177E+21	6,199940E+22	1,180160E+22	7,380100E+22
1379	3,099871E+22	3,099805E+22	5,901270E+21	5,900862E+21	6,199677E+22	1,180213E+22	7,379890E+22
1380	3,099815E+22	3,099881E+22	5,901371E+21	5,901414E+21	6,199696E+22	1,180278E+22	7,379974E+22
1381	3,099878E+22	3,099749E+22	5,901234E+21	5,901633E+21	6,199627E+22	1,180287E+22	7,379913E+22
1382	3,099694E+22	3,099777E+22	5,901949E+21	5,901234E+21	6,199472E+22	1,180318E+22	7,379790E+22
1383	3,099734E+22	3,099831E+22	5,901394E+21	5,901892E+21	6,199565E+22	1,180329E+22	7,379894E+22
1384	3,099764E+22	3,099682E+22	5,901455E+21	5,901469E+21	6,199446E+22	1,180292E+22	7,379738E+22
1385	3,099692E+22	3,099810E+22	5,901732E+21	5,901074E+21	6,199502E+22	1,180281E+22	7,379783E+22
1386	3,099878E+22	3,099837E+22	5,900820E+21	5,901403E+21	6,199715E+22	1,180222E+22	7,379937E+22
1387	3,099890E+22	3,099787E+22	5,900983E+21	5,900606E+21	6,199677E+22	1,180159E+22	7,379836E+22
1388	3,099868E+22	3,099988E+22	5,900815E+21	5,900596E+21	6,199856E+22	1,180141E+22	7,379997E+22
1389	3,100012E+22	3,099959E+22	5,900140E+21	5,900709E+21	6,199971E+22	1,180085E+22	7,380056E+22
1390	3,099932E+22	3,099972E+22	5,900635E+21	5,900011E+21	6,199904E+22	1,180065E+22	7,379968E+22
1391	3,099977E+22	3,100074E+22	5,900268E+21	5,900502E+21	6,200052E+22	1,180077E+22	7,380129E+22
1392	3,100043E+22	3,099919E+22	5,900251E+21	5,900402E+21	6,199963E+22	1,180065E+22	7,380028E+22
1393	3,099903E+22	3,099978E+22	5,900987E+21	5,900222E+21	6,199881E+22	1,180121E+22	7,380002E+22
1394	3,099943E+22	3,099984E+22	5,900508E+21	5,901136E+21	6,199926E+22	1,180164E+22	7,380091E+22
1395	3,099889E+22	3,099778E+22	5,900994E+21	5,901040E+21	6,199668E+22	1,180203E+22	7,379871E+22
1396	3,099746E+22	3,099848E+22	5,901580E+21	5,901288E+21	6,199594E+22	1,180287E+22	7,379881E+22
1397	3,099824E+22	3,099747E+22	5,901261E+21	5,902000E+21	6,199571E+22	1,180326E+22	7,379897E+22
1398	3,099709E+22	3,099633E+22	5,902112E+21	5,901612E+21	6,199343E+22	1,180372E+22	7,379715E+22
1399	3,099623E+22	3,099736E+22	5,902189E+21	5,902189E+21	6,199359E+22	1,180438E+22	7,379796E+22
1400	3,099652E+22	3,099573E+22	5,902061E+21	5,902463E+21	6,199225E+22	1,180452E+22	7,379678E+22
1401	3,099499E+22	3,099588E+22	5,902779E+21	5,902029E+21	6,199087E+22	1,180481E+22	7,379567E+22
1402	3,099552E+22	3,099653E+22	5,902171E+21	5,902606E+21	6,199205E+22	1,180478E+22	7,379683E+22
1403	3,099636E+22	3,099486E+22	5,902093E+21	5,902179E+21	6,199122E+22	1,180427E+22	7,379549E+22
1404	3,099577E+22	3,099646E+22	5,902327E+21	5,901688E+21	6,199224E+22	1,180402E+22	7,379625E+22
1405	3,099737E+22	3,099705E+22	5,901432E+21	5,902065E+21	6,199442E+22	1,180350E+22	7,379792E+22
1406	3,099737E+22	3,099669E+22	5,901596E+21	5,901260E+21	6,199406E+22	1,180286E+22	7,379692E+22
1407	3,099702E+22	3,099864E+22	5,901469E+21	5,901250E+21	6,199566E+22	1,180272E+22	7,379838E+22
1408	3,099834E+22	3,099786E+22	5,900887E+21	5,901379E+21	6,199621E+22	1,180227E+22	7,379847E+22
1409	3,099782E+22	3,099788E+22	5,901460E+21	5,900696E+21	6,199571E+22	1,180216E+22	7,379786E+22
1410	3,099800E+22	3,099906E+22	5,901109E+21	5,901233E+21	6,199706E+22	1,180234E+22	7,379940E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1411	3,099865E+22	3,099729E+22	5,900993E+21	5,901299E+21	6,199594E+22	1,180229E+22	7,379823E+22
1412	3,099716E+22	3,099790E+22	5,901705E+21	5,901108E+21	6,199505E+22	1,180281E+22	7,379787E+22
1413	3,099748E+22	3,099791E+22	5,901294E+21	5,902034E+21	6,199538E+22	1,180333E+22	7,379871E+22
1414	3,099725E+22	3,099595E+22	5,901796E+21	5,901846E+21	6,199319E+22	1,180364E+22	7,379684E+22
1415	3,099585E+22	3,099679E+22	5,902411E+21	5,902042E+21	6,199263E+22	1,180445E+22	7,379709E+22
1416	3,099632E+22	3,099561E+22	5,902183E+21	5,902798E+21	6,199193E+22	1,180498E+22	7,379691E+22
1417	3,099516E+22	3,099458E+22	5,903048E+21	5,902463E+21	6,198974E+22	1,180551E+22	7,379526E+22
1418	3,099393E+22	3,099566E+22	5,903086E+21	5,903053E+21	6,198959E+22	1,180614E+22	7,379573E+22
1419	3,099458E+22	3,099362E+22	5,902820E+21	5,903363E+21	6,198820E+22	1,180618E+22	7,379438E+22
1420	3,099347E+22	3,099377E+22	5,903445E+21	5,902761E+21	6,198725E+22	1,180621E+22	7,379345E+22
1421	3,099411E+22	3,099469E+22	5,902846E+21	5,903275E+21	6,198880E+22	1,180612E+22	7,379492E+22
1422	3,099510E+22	3,099349E+22	5,902715E+21	5,902776E+21	6,198860E+22	1,180549E+22	7,379409E+22
1423	3,099428E+22	3,099539E+22	5,902932E+21	5,902296E+21	6,198966E+22	1,180523E+22	7,379489E+22
1424	3,099547E+22	3,099573E+22	5,902133E+21	5,902729E+21	6,199119E+22	1,180486E+22	7,379606E+22
1425	3,099569E+22	3,099521E+22	5,902350E+21	5,901932E+21	6,199089E+22	1,180428E+22	7,379518E+22
1426	3,099525E+22	3,099709E+22	5,902243E+21	5,901902E+21	6,199234E+22	1,180414E+22	7,379648E+22
1427	3,099687E+22	3,099593E+22	5,901582E+21	5,902130E+21	6,199281E+22	1,180371E+22	7,379652E+22
1428	3,099639E+22	3,099601E+22	5,902132E+21	5,901447E+21	6,199240E+22	1,180358E+22	7,379598E+22
1429	3,099626E+22	3,099735E+22	5,901825E+21	5,902084E+21	6,199361E+22	1,180391E+22	7,379752E+22
1430	3,099691E+22	3,099566E+22	5,901704E+21	5,902161E+21	6,199256E+22	1,180387E+22	7,379643E+22
1431	3,099543E+22	3,099622E+22	5,902454E+21	5,901928E+21	6,199164E+22	1,180438E+22	7,379603E+22
1432	3,099566E+22	3,099592E+22	5,902181E+21	5,902828E+21	6,199159E+22	1,180501E+22	7,379660E+22
1433	3,099561E+22	3,099406E+22	5,902758E+21	5,902621E+21	6,198967E+22	1,180538E+22	7,379505E+22
1434	3,099383E+22	3,099513E+22	5,903388E+21	5,902835E+21	6,198896E+22	1,180622E+22	7,379519E+22
1435	3,099421E+22	3,099367E+22	5,903045E+21	5,903721E+21	6,198788E+22	1,180677E+22	7,379464E+22
1436	3,099302E+22	3,099260E+22	5,903839E+21	5,903349E+21	6,198562E+22	1,180719E+22	7,379281E+22
1437	3,099189E+22	3,099364E+22	5,903854E+21	5,903898E+21	6,198554E+22	1,180775E+22	7,379329E+22
1438	3,099298E+22	3,099175E+22	5,903514E+21	5,904092E+21	6,198473E+22	1,180761E+22	7,379233E+22
1439	3,099213E+22	3,099219E+22	5,904092E+21	5,903397E+21	6,198432E+22	1,180749E+22	7,379181E+22
1440	3,099259E+22	3,099313E+22	5,903576E+21	5,903927E+21	6,198572E+22	1,180750E+22	7,379322E+22
1441	3,099355E+22	3,099222E+22	5,903449E+21	5,903456E+21	6,198578E+22	1,180691E+22	7,379268E+22
1442	3,099242E+22	3,099415E+22	5,903665E+21	5,902983E+21	6,198657E+22	1,180665E+22	7,379322E+22
1443	3,099382E+22	3,099396E+22	5,902794E+21	5,903463E+21	6,198778E+22	1,180626E+22	7,379403E+22
1444	3,099430E+22	3,099336E+22	5,902979E+21	5,902593E+21	6,198766E+22	1,180557E+22	7,379323E+22
1445	3,099381E+22	3,099530E+22	5,902917E+21	5,902583E+21	6,198911E+22	1,180550E+22	7,379461E+22
1446	3,099543E+22	3,099441E+22	5,902239E+21	5,902834E+21	6,198984E+22	1,180507E+22	7,379491E+22
1447	3,099476E+22	3,099461E+22	5,902778E+21	5,902191E+21	6,198937E+22	1,180497E+22	7,379434E+22
1448	3,099430E+22	3,099563E+22	5,902626E+21	5,902887E+21	6,198993E+22	1,180551E+22	7,379544E+22
1449	3,099516E+22	3,099393E+22	5,902577E+21	5,902955E+21	6,198909E+22	1,180553E+22	7,379462E+22
1450	3,099358E+22	3,099447E+22	5,903382E+21	5,902698E+21	6,198806E+22	1,180608E+22	7,379414E+22
1451	3,099392E+22	3,099388E+22	5,903081E+21	5,903685E+21	6,198780E+22	1,180677E+22	7,379456E+22
1452	3,099379E+22	3,099210E+22	5,903619E+21	5,903497E+21	6,198590E+22	1,180712E+22	7,379301E+22
1453	3,099161E+22	3,099323E+22	5,904247E+21	5,903786E+21	6,198485E+22	1,180803E+22	7,379288E+22
1454	3,099207E+22	3,099180E+22	5,903833E+21	5,904641E+21	6,198388E+22	1,180847E+22	7,379235E+22
1455	3,099116E+22	3,099064E+22	5,904567E+21	5,904161E+21	6,198181E+22	1,180873E+22	7,379054E+22
1456	3,099015E+22	3,099154E+22	5,904666E+21	5,904638E+21	6,198170E+22	1,180930E+22	7,379100E+22
1457	3,099155E+22	3,099005E+22	5,904321E+21	5,904767E+21	6,198160E+22	1,180909E+22	7,379069E+22
1458	3,099047E+22	3,099086E+22	5,904868E+21	5,904067E+21	6,198133E+22	1,180894E+22	7,379026E+22
1459	3,099089E+22	3,099160E+22	5,904264E+21	5,904680E+21	6,198249E+22	1,180894E+22	7,379143E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1460	3,099188E+22	3,099067E+22	5,904081E+21	5,904155E+21	6,198256E+22	1,180824E+22	7,379079E+22
1461	3,099077E+22	3,099252E+22	5,904313E+21	5,903656E+21	6,198329E+22	1,180797E+22	7,379126E+22
1462	3,099243E+22	3,099239E+22	5,903402E+21	5,904071E+21	6,198482E+22	1,180747E+22	7,379229E+22
1463	3,099301E+22	3,099188E+22	5,903583E+21	5,903194E+21	6,198489E+22	1,180678E+22	7,379167E+22
1464	3,099223E+22	3,099370E+22	5,903656E+21	5,903284E+21	6,198593E+22	1,180694E+22	7,379287E+22
1465	3,099373E+22	3,099299E+22	5,903022E+21	5,903613E+21	6,198672E+22	1,180664E+22	7,379335E+22
1466	3,099286E+22	3,099313E+22	5,903591E+21	5,903006E+21	6,198599E+22	1,180660E+22	7,379258E+22
1467	3,099261E+22	3,099357E+22	5,903427E+21	5,903736E+21	6,198618E+22	1,180716E+22	7,379334E+22
1468	3,099358E+22	3,099190E+22	5,903385E+21	5,903746E+21	6,198548E+22	1,180713E+22	7,379261E+22
1469	3,099182E+22	3,099257E+22	5,904238E+21	5,903522E+21	6,198439E+22	1,180776E+22	7,379215E+22
1470	3,099197E+22	3,099215E+22	5,903910E+21	5,904532E+21	6,198412E+22	1,180844E+22	7,379256E+22
1471	3,099167E+22	3,099042E+22	5,904413E+21	5,904371E+21	6,198209E+22	1,180878E+22	7,379087E+22
1472	3,098934E+22	3,099117E+22	5,905135E+21	5,904678E+21	6,198051E+22	1,180981E+22	7,379033E+22
1473	3,099013E+22	3,098983E+22	5,904718E+21	5,905458E+21	6,197995E+22	1,181018E+22	7,379013E+22
1474	3,098941E+22	3,098881E+22	5,905408E+21	5,904911E+21	6,197822E+22	1,181032E+22	7,378854E+22
1475	3,098867E+22	3,098953E+22	5,905440E+21	5,905410E+21	6,197820E+22	1,181085E+22	7,378905E+22
1476	3,099007E+22	3,098843E+22	5,905032E+21	5,905513E+21	6,197849E+22	1,181054E+22	7,378904E+22
1477	3,098871E+22	3,098941E+22	5,905553E+21	5,904844E+21	6,197812E+22	1,181040E+22	7,378852E+22
1478	3,098920E+22	3,099015E+22	5,904900E+21	5,905384E+21	6,197936E+22	1,181028E+22	7,378964E+22
1479	3,099041E+22	3,098916E+22	5,904674E+21	5,904760E+21	6,197957E+22	1,180943E+22	7,378900E+22
1480	3,098926E+22	3,099076E+22	5,905024E+21	5,904256E+21	6,198002E+22	1,180928E+22	7,378930E+22
1481	3,099099E+22	3,099095E+22	5,904147E+21	5,904678E+21	6,198194E+22	1,180882E+22	7,379076E+22
1482	3,099132E+22	3,099055E+22	5,904326E+21	5,903893E+21	6,198187E+22	1,180822E+22	7,379009E+22
1483	3,099046E+22	3,099197E+22	5,904376E+21	5,904113E+21	6,198243E+22	1,180849E+22	7,379092E+22
1484	3,099204E+22	3,099121E+22	5,903733E+21	5,904424E+21	6,198326E+22	1,180816E+22	7,379142E+22
1485	3,099115E+22	3,099125E+22	5,904339E+21	5,903812E+21	6,198240E+22	1,180815E+22	7,379055E+22
1486	3,099106E+22	3,099178E+22	5,904179E+21	5,904483E+21	6,198284E+22	1,180866E+22	7,379150E+22
1487	3,099201E+22	3,099021E+22	5,904150E+21	5,904493E+21	6,198221E+22	1,180864E+22	7,379085E+22
1488	3,098981E+22	3,099072E+22	5,905147E+21	5,904384E+21	6,198053E+22	1,180953E+22	7,379007E+22
1489	3,098977E+22	3,099047E+22	5,904839E+21	5,905430E+21	6,198024E+22	1,181027E+22	7,379050E+22
1490	3,098943E+22	3,098854E+22	5,905331E+21	5,905288E+21	6,197797E+22	1,181062E+22	7,378859E+22
1491	3,098748E+22	3,098876E+22	5,905992E+21	5,905580E+21	6,197623E+22	1,181157E+22	7,378781E+22
1492	3,098858E+22	3,098764E+22	5,905521E+21	5,906255E+21	6,197622E+22	1,181178E+22	7,378800E+22
1493	3,098782E+22	3,098699E+22	5,906181E+21	5,905690E+21	6,197481E+22	1,181187E+22	7,378668E+22
1494	3,098704E+22	3,098806E+22	5,906138E+21	5,906150E+21	6,197510E+22	1,181229E+22	7,378739E+22
1495	3,098832E+22	3,098714E+22	5,905676E+21	5,906200E+21	6,197546E+22	1,181188E+22	7,378734E+22
1496	3,098685E+22	3,098784E+22	5,906294E+21	5,905529E+21	6,197469E+22	1,181182E+22	7,378651E+22
1497	3,098751E+22	3,098868E+22	5,905653E+21	5,905980E+21	6,197619E+22	1,181163E+22	7,378782E+22
1498	3,098883E+22	3,098770E+22	5,905410E+21	5,905376E+21	6,197653E+22	1,181079E+22	7,378732E+22
1499	3,098786E+22	3,098888E+22	5,905710E+21	5,904965E+21	6,197675E+22	1,181068E+22	7,378742E+22
1500	3,098950E+22	3,098931E+22	5,904805E+21	5,905433E+21	6,197881E+22	1,181024E+22	7,378905E+22
1501	3,098963E+22	3,098901E+22	5,904966E+21	5,904714E+21	6,197864E+22	1,180968E+22	7,378832E+22
1502	3,098893E+22	3,099029E+22	5,905003E+21	5,904879E+21	6,197922E+22	1,180988E+22	7,378910E+22
1503	3,099065E+22	3,098955E+22	5,904384E+21	5,905088E+21	6,198020E+22	1,180947E+22	7,378967E+22
1504	3,098961E+22	3,098942E+22	5,905161E+21	5,904514E+21	6,197903E+22	1,180968E+22	7,378871E+22
1505	3,098928E+22	3,099025E+22	5,905084E+21	5,905195E+21	6,197953E+22	1,181028E+22	7,378981E+22
1506	3,098987E+22	3,098870E+22	5,905073E+21	5,905341E+21	6,197857E+22	1,181041E+22	7,378899E+22
1507	3,098759E+22	3,098859E+22	5,906042E+21	5,905351E+21	6,197618E+22	1,181139E+22	7,378757E+22
1508	3,098770E+22	3,098827E+22	5,905708E+21	5,906358E+21	6,197597E+22	1,181207E+22	7,378804E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1509	3,098751E+22	3,098636E+22	5,906163E+21	5,906183E+21	6,197387E+22	1,181235E+22	7,378622E+22
1510	3,098592E+22	3,098673E+22	5,906754E+21	5,906386E+21	6,197265E+22	1,181314E+22	7,378579E+22
1511	3,098711E+22	3,098598E+22	5,906252E+21	5,906990E+21	6,197308E+22	1,181324E+22	7,378633E+22
1512	3,098601E+22	3,098542E+22	5,906993E+21	5,906487E+21	6,197143E+22	1,181348E+22	7,378491E+22
1513	3,098509E+22	3,098678E+22	5,906953E+21	5,906889E+21	6,197186E+22	1,181384E+22	7,378571E+22
1514	3,098641E+22	3,098566E+22	5,906465E+21	5,906921E+21	6,197207E+22	1,181339E+22	7,378545E+22
1515	3,098521E+22	3,098578E+22	5,907021E+21	5,906242E+21	6,197099E+22	1,181326E+22	7,378425E+22
1516	3,098610E+22	3,098682E+22	5,906327E+21	5,906628E+21	6,197292E+22	1,181295E+22	7,378587E+22
1517	3,098730E+22	3,098605E+22	5,906049E+21	5,906076E+21	6,197334E+22	1,181212E+22	7,378547E+22
1518	3,098640E+22	3,098739E+22	5,906275E+21	5,905683E+21	6,197379E+22	1,181196E+22	7,378575E+22
1519	3,098803E+22	3,098792E+22	5,905365E+21	5,906099E+21	6,197595E+22	1,181146E+22	7,378741E+22
1520	3,098805E+22	3,098741E+22	5,905662E+21	5,905402E+21	6,197545E+22	1,181106E+22	7,378652E+22
1521	3,098740E+22	3,098888E+22	5,905773E+21	5,905479E+21	6,197628E+22	1,181125E+22	7,378753E+22
1522	3,098904E+22	3,098810E+22	5,905222E+21	5,905760E+21	6,197713E+22	1,181098E+22	7,378811E+22
1523	3,098786E+22	3,098749E+22	5,906031E+21	5,905347E+21	6,197536E+22	1,181138E+22	7,378673E+22
1524	3,098727E+22	3,098842E+22	5,905954E+21	5,906105E+21	6,197569E+22	1,181206E+22	7,378775E+22
1525	3,098763E+22	3,098676E+22	5,905933E+21	5,906342E+21	6,197439E+22	1,181228E+22	7,378666E+22
1526	3,098570E+22	3,098637E+22	5,906824E+21	5,906290E+21	6,197207E+22	1,181311E+22	7,378518E+22
1527	3,098608E+22	3,098615E+22	5,906463E+21	5,907149E+21	6,197223E+22	1,181361E+22	7,378584E+22
1528	3,098588E+22	3,098437E+22	5,907009E+21	5,906974E+21	6,197025E+22	1,181398E+22	7,378423E+22
1529	3,098416E+22	3,098524E+22	5,907626E+21	5,907118E+21	6,196940E+22	1,181474E+22	7,378414E+22
1530	3,098509E+22	3,098467E+22	5,907127E+21	5,907788E+21	6,196976E+22	1,181492E+22	7,378468E+22
1531	3,098398E+22	3,098358E+22	5,907810E+21	5,907330E+21	6,196756E+22	1,181514E+22	7,378270E+22
1532	3,098321E+22	3,098489E+22	5,907722E+21	5,907630E+21	6,196810E+22	1,181535E+22	7,378345E+22
1533	3,098468E+22	3,098382E+22	5,907165E+21	5,907623E+21	6,196850E+22	1,181479E+22	7,378329E+22
1534	3,098390E+22	3,098393E+22	5,907610E+21	5,906896E+21	6,196782E+22	1,181451E+22	7,378233E+22
1535	3,098483E+22	3,098530E+22	5,906884E+21	5,907231E+21	6,197014E+22	1,181412E+22	7,378425E+22
1536	3,098576E+22	3,098467E+22	5,906686E+21	5,906783E+21	6,197043E+22	1,181347E+22	7,378390E+22
1537	3,098477E+22	3,098622E+22	5,906952E+21	5,906343E+21	6,197099E+22	1,181329E+22	7,378428E+22
1538	3,098646E+22	3,098657E+22	5,906108E+21	5,906762E+21	6,197303E+22	1,181287E+22	7,378590E+22
1539	3,098657E+22	3,098551E+22	5,906422E+21	5,906103E+21	6,197208E+22	1,181253E+22	7,378460E+22
1540	3,098587E+22	3,098711E+22	5,906577E+21	5,906175E+21	6,197299E+22	1,181275E+22	7,378574E+22
1541	3,098712E+22	3,098644E+22	5,906044E+21	5,906580E+21	6,197356E+22	1,181262E+22	7,378619E+22
1542	3,098589E+22	3,098569E+22	5,906793E+21	5,906262E+21	6,197158E+22	1,181305E+22	7,378464E+22
1543	3,098530E+22	3,098653E+22	5,906707E+21	5,906969E+21	6,197183E+22	1,181368E+22	7,378551E+22
1544	3,098565E+22	3,098466E+22	5,906785E+21	5,907234E+21	6,197031E+22	1,181402E+22	7,378433E+22
1545	3,098394E+22	3,098454E+22	5,907684E+21	5,907063E+21	6,196848E+22	1,181475E+22	7,378322E+22
1546	3,098443E+22	3,098439E+22	5,907365E+21	5,907939E+21	6,196882E+22	1,181530E+22	7,378412E+22
1547	3,098406E+22	3,098240E+22	5,907899E+21	5,907850E+21	6,196646E+22	1,181575E+22	7,378221E+22
1548	3,098220E+22	3,098355E+22	5,908476E+21	5,907984E+21	6,196575E+22	1,181646E+22	7,378221E+22
1549	3,098295E+22	3,098291E+22	5,907949E+21	5,908654E+21	6,196586E+22	1,181660E+22	7,378246E+22
1550	3,098224E+22	3,098158E+22	5,908510E+21	5,908112E+21	6,196383E+22	1,181662E+22	7,378045E+22
1551	3,098176E+22	3,098302E+22	5,908351E+21	5,908235E+21	6,196478E+22	1,181659E+22	7,378136E+22
1552	3,098317E+22	3,098212E+22	5,907851E+21	5,908259E+21	6,196528E+22	1,181611E+22	7,378139E+22
1553	3,098235E+22	3,098271E+22	5,908274E+21	5,907494E+21	6,196505E+22	1,181577E+22	7,378082E+22
1554	3,098319E+22	3,098415E+22	5,907578E+21	5,907906E+21	6,196734E+22	1,181548E+22	7,378282E+22
1555	3,098409E+22	3,098306E+22	5,907379E+21	5,907515E+21	6,196715E+22	1,181489E+22	7,378204E+22
1556	3,098327E+22	3,098460E+22	5,907655E+21	5,907009E+21	6,196788E+22	1,181466E+22	7,378254E+22
1557	3,098489E+22	3,098496E+22	5,906840E+21	5,907435E+21	6,196985E+22	1,181428E+22	7,378413E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1558	3,098519E+22	3,098375E+22	5,907103E+21	5,906838E+21	6,196894E+22	1,181394E+22	7,378288E+22
1559	3,098428E+22	3,098549E+22	5,907270E+21	5,906912E+21	6,196977E+22	1,181418E+22	7,378395E+22
1560	3,098513E+22	3,098479E+22	5,906837E+21	5,907471E+21	6,196992E+22	1,181431E+22	7,378423E+22
1561	3,098389E+22	3,098400E+22	5,907613E+21	5,907107E+21	6,196789E+22	1,181472E+22	7,378261E+22
1562	3,098347E+22	3,098461E+22	5,907589E+21	5,907807E+21	6,196809E+22	1,181540E+22	7,378349E+22
1563	3,098395E+22	3,098238E+22	5,907659E+21	5,908081E+21	6,196633E+22	1,181574E+22	7,378207E+22
1564	3,098225E+22	3,098253E+22	5,908567E+21	5,907877E+21	6,196478E+22	1,181644E+22	7,378122E+22
1565	3,098239E+22	3,098268E+22	5,908264E+21	5,908807E+21	6,196507E+22	1,181707E+22	7,378214E+22
1566	3,098208E+22	3,098061E+22	5,908689E+21	5,908752E+21	6,196269E+22	1,181744E+22	7,378013E+22
1567	3,098026E+22	3,098176E+22	5,909222E+21	5,908749E+21	6,196201E+22	1,181797E+22	7,377998E+22
1568	3,098102E+22	3,098106E+22	5,908737E+21	5,909403E+21	6,196208E+22	1,181814E+22	7,378022E+22
1569	3,098053E+22	3,097997E+22	5,909254E+21	5,908741E+21	6,196050E+22	1,181799E+22	7,377849E+22
1570	3,098024E+22	3,098146E+22	5,909108E+21	5,908895E+21	6,196170E+22	1,181800E+22	7,377970E+22
1571	3,098153E+22	3,098042E+22	5,908568E+21	5,909018E+21	6,196195E+22	1,181759E+22	7,377954E+22
1572	3,098073E+22	3,098124E+22	5,908948E+21	5,908258E+21	6,196197E+22	1,181721E+22	7,377918E+22
1573	3,098151E+22	3,098262E+22	5,908270E+21	5,908655E+21	6,196413E+22	1,181692E+22	7,378106E+22
1574	3,098278E+22	3,098131E+22	5,907979E+21	5,908210E+21	6,196409E+22	1,181619E+22	7,378028E+22
1575	3,098209E+22	3,098297E+22	5,908252E+21	5,907575E+21	6,196506E+22	1,181583E+22	7,378089E+22
1576	3,098335E+22	3,098342E+22	5,907566E+21	5,908092E+21	6,196677E+22	1,181566E+22	7,378243E+22
1577	3,098338E+22	3,098250E+22	5,907859E+21	5,907541E+21	6,196588E+22	1,181540E+22	7,378128E+22
1578	3,098235E+22	3,098400E+22	5,908089E+21	5,907727E+21	6,196635E+22	1,181582E+22	7,378217E+22
1579	3,098307E+22	3,098272E+22	5,907688E+21	5,908358E+21	6,196579E+22	1,181605E+22	7,378183E+22
1580	3,098212E+22	3,098193E+22	5,908446E+21	5,907936E+21	6,196405E+22	1,181638E+22	7,378043E+22
1581	3,098171E+22	3,098256E+22	5,908462E+21	5,908625E+21	6,196427E+22	1,181709E+22	7,378136E+22
1582	3,098235E+22	3,098038E+22	5,908464E+21	5,908945E+21	6,196273E+22	1,181741E+22	7,378014E+22
1583	3,098050E+22	3,098082E+22	5,909351E+21	5,908703E+21	6,196132E+22	1,181805E+22	7,377938E+22
1584	3,098022E+22	3,098102E+22	5,909135E+21	5,909714E+21	6,196124E+22	1,181885E+22	7,378009E+22
1585	3,097997E+22	3,097900E+22	5,909540E+21	5,909559E+21	6,195896E+22	1,181910E+22	7,377806E+22
1586	3,097843E+22	3,097990E+22	5,910069E+21	5,909505E+21	6,195833E+22	1,181957E+22	7,377791E+22
1587	3,097924E+22	3,097895E+22	5,909547E+21	5,910147E+21	6,195820E+22	1,181969E+22	7,377789E+22
1588	3,097893E+22	3,097817E+22	5,909998E+21	5,909461E+21	6,195711E+22	1,181946E+22	7,377656E+22
1589	3,097846E+22	3,097991E+22	5,909839E+21	5,909654E+21	6,195837E+22	1,181949E+22	7,377787E+22
1590	3,097998E+22	3,097884E+22	5,909170E+21	5,909799E+21	6,195881E+22	1,181897E+22	7,377778E+22
1591	3,097936E+22	3,097971E+22	5,909508E+21	5,908887E+21	6,195907E+22	1,181839E+22	7,377747E+22
1592	3,098010E+22	3,098114E+22	5,908920E+21	5,909262E+21	6,196124E+22	1,181818E+22	7,377943E+22
1593	3,098143E+22	3,098003E+22	5,908640E+21	5,908738E+21	6,196146E+22	1,181738E+22	7,377884E+22
1594	3,098066E+22	3,098160E+22	5,909001E+21	5,908205E+21	6,196226E+22	1,181721E+22	7,377946E+22
1595	3,098146E+22	3,098181E+22	5,908347E+21	5,908877E+21	6,196327E+22	1,181722E+22	7,378049E+22
1596	3,098143E+22	3,098079E+22	5,908649E+21	5,908403E+21	6,196222E+22	1,181705E+22	7,377927E+22
1597	3,098038E+22	3,098202E+22	5,908936E+21	5,908602E+21	6,196240E+22	1,181754E+22	7,377994E+22
1598	3,098151E+22	3,098050E+22	5,908440E+21	5,909217E+21	6,196200E+22	1,181766E+22	7,377966E+22
1599	3,098069E+22	3,097991E+22	5,909175E+21	5,908680E+21	6,196060E+22	1,181786E+22	7,377846E+22
1600	3,097992E+22	3,098082E+22	5,909310E+21	5,909449E+21	6,196074E+22	1,181876E+22	7,377950E+22
1601	3,098027E+22	3,097899E+22	5,909328E+21	5,909770E+21	6,195926E+22	1,181910E+22	7,377836E+22
1602	3,097838E+22	3,097922E+22	5,910271E+21	5,909590E+21	6,195760E+22	1,181986E+22	7,377746E+22
1603	3,097796E+22	3,097895E+22	5,910065E+21	5,910596E+21	6,195691E+22	1,182066E+22	7,377757E+22
1604	3,097805E+22	3,097693E+22	5,910407E+21	5,910376E+21	6,195498E+22	1,182078E+22	7,377577E+22
1605	3,097665E+22	3,097783E+22	5,910905E+21	5,910283E+21	6,195448E+22	1,182119E+22	7,377567E+22
1606	3,097774E+22	3,097697E+22	5,910233E+21	5,910950E+21	6,195471E+22	1,182118E+22	7,377589E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1607	3,097749E+22	3,097660E+22	5,910582E+21	5,910191E+21	6,195409E+22	1,182077E+22	7,377487E+22
1608	3,097683E+22	3,097845E+22	5,910494E+21	5,910408E+21	6,195529E+22	1,182090E+22	7,377619E+22
1609	3,097845E+22	3,097759E+22	5,909823E+21	5,910403E+21	6,195604E+22	1,182023E+22	7,377627E+22
1610	3,097812E+22	3,097830E+22	5,910189E+21	5,909448E+21	6,195642E+22	1,181964E+22	7,377606E+22
1611	3,097855E+22	3,097949E+22	5,909658E+21	5,909840E+21	6,195804E+22	1,181950E+22	7,377754E+22
1612	3,097979E+22	3,097859E+22	5,909380E+21	5,909393E+21	6,195838E+22	1,181877E+22	7,377715E+22
1613	3,097871E+22	3,098005E+22	5,909780E+21	5,908982E+21	6,195876E+22	1,181876E+22	7,377752E+22
1614	3,097961E+22	3,097996E+22	5,909043E+21	5,909741E+21	6,195958E+22	1,181878E+22	7,377836E+22
1615	3,097982E+22	3,097890E+22	5,909305E+21	5,909179E+21	6,195872E+22	1,181848E+22	7,377720E+22
1616	3,097876E+22	3,098011E+22	5,909689E+21	5,909389E+21	6,195887E+22	1,181908E+22	7,377795E+22
1617	3,097994E+22	3,097888E+22	5,909230E+21	5,909938E+21	6,195882E+22	1,181917E+22	7,377799E+22
1618	3,097909E+22	3,097831E+22	5,910038E+21	5,909493E+21	6,195740E+22	1,181953E+22	7,377693E+22
1619	3,097776E+22	3,097906E+22	5,910240E+21	5,910363E+21	6,195682E+22	1,182060E+22	7,377742E+22
1620	3,097810E+22	3,097717E+22	5,910262E+21	5,910715E+21	6,195527E+22	1,182098E+22	7,377624E+22
1621	3,097623E+22	3,097710E+22	5,911221E+21	5,910500E+21	6,195333E+22	1,182172E+22	7,377505E+22
1622	3,097621E+22	3,097662E+22	5,910863E+21	5,911449E+21	6,195283E+22	1,182231E+22	7,377514E+22
1623	3,097652E+22	3,097486E+22	5,911112E+21	5,911106E+21	6,195138E+22	1,182222E+22	7,377360E+22
1624	3,097495E+22	3,097610E+22	5,911641E+21	5,911057E+21	6,195106E+22	1,182270E+22	7,377375E+22
1625	3,097599E+22	3,097568E+22	5,910928E+21	5,911654E+21	6,195167E+22	1,182258E+22	7,377425E+22
1626	3,097588E+22	3,097525E+22	5,911288E+21	5,910887E+21	6,195114E+22	1,182218E+22	7,377331E+22
1627	3,097511E+22	3,097687E+22	5,911226E+21	5,911048E+21	6,195198E+22	1,182227E+22	7,377426E+22
1628	3,097695E+22	3,097607E+22	5,910542E+21	5,910990E+21	6,195303E+22	1,182153E+22	7,377456E+22
1629	3,097657E+22	3,097670E+22	5,910947E+21	5,910074E+21	6,195327E+22	1,182102E+22	7,377429E+22
1630	3,097700E+22	3,097781E+22	5,910313E+21	5,910570E+21	6,195481E+22	1,182088E+22	7,377569E+22
1631	3,097815E+22	3,097703E+22	5,909980E+21	5,910160E+21	6,195517E+22	1,182014E+22	7,377531E+22
1632	3,097693E+22	3,097834E+22	5,910460E+21	5,909831E+21	6,195527E+22	1,182029E+22	7,377556E+22
1633	3,097801E+22	3,097829E+22	5,909743E+21	5,910474E+21	6,195630E+22	1,182022E+22	7,377651E+22
1634	3,097852E+22	3,097713E+22	5,910047E+21	5,909893E+21	6,195565E+22	1,181994E+22	7,377559E+22
1635	3,097710E+22	3,097825E+22	5,910526E+21	5,910131E+21	6,195536E+22	1,182066E+22	7,377601E+22
1636	3,097810E+22	3,097728E+22	5,910122E+21	5,910752E+21	6,195539E+22	1,182087E+22	7,377626E+22
1637	3,097692E+22	3,097660E+22	5,910995E+21	5,910413E+21	6,195352E+22	1,182141E+22	7,377492E+22
1638	3,097563E+22	3,097699E+22	5,911112E+21	5,911311E+21	6,195262E+22	1,182242E+22	7,377504E+22
1639	3,097621E+22	3,097508E+22	5,911061E+21	5,911562E+21	6,195129E+22	1,182262E+22	7,377391E+22
1640	3,097441E+22	3,097495E+22	5,912041E+21	5,911333E+21	6,194935E+22	1,182337E+22	7,377273E+22
1641	3,097449E+22	3,097482E+22	5,911653E+21	5,912175E+21	6,194931E+22	1,182383E+22	7,377314E+22
1642	3,097494E+22	3,097326E+22	5,911871E+21	5,911875E+21	6,194820E+22	1,182375E+22	7,377195E+22
1643	3,097298E+22	3,097447E+22	5,912420E+21	5,911865E+21	6,194744E+22	1,182428E+22	7,377173E+22
1644	3,097419E+22	3,097416E+22	5,911715E+21	5,912416E+21	6,194835E+22	1,182413E+22	7,377248E+22
1645	3,097423E+22	3,097357E+22	5,912069E+21	5,911580E+21	6,194780E+22	1,182365E+22	7,377145E+22
1646	3,097374E+22	3,097502E+22	5,911878E+21	5,911685E+21	6,194876E+22	1,182356E+22	7,377232E+22
1647	3,097562E+22	3,097449E+22	5,911126E+21	5,911574E+21	6,195011E+22	1,182270E+22	7,377281E+22
1648	3,097491E+22	3,097523E+22	5,911579E+21	5,910788E+21	6,195014E+22	1,182237E+22	7,377250E+22
1649	3,097522E+22	3,097651E+22	5,910949E+21	5,911265E+21	6,195173E+22	1,182221E+22	7,377395E+22
1650	3,097658E+22	3,097552E+22	5,910648E+21	5,910895E+21	6,195210E+22	1,182154E+22	7,377364E+22
1651	3,097527E+22	3,097653E+22	5,911195E+21	5,910551E+21	6,195180E+22	1,182175E+22	7,377355E+22
1652	3,097658E+22	3,097656E+22	5,910535E+21	5,911166E+21	6,195314E+22	1,182170E+22	7,377484E+22
1653	3,097694E+22	3,097540E+22	5,910911E+21	5,910650E+21	6,195234E+22	1,182156E+22	7,377390E+22
1654	3,097539E+22	3,097645E+22	5,911327E+21	5,910992E+21	6,195184E+22	1,182232E+22	7,377416E+22
1655	3,097616E+22	3,097556E+22	5,910919E+21	5,911647E+21	6,195172E+22	1,182257E+22	7,377428E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1656	3,097478E+22	3,097466E+22	5,911875E+21	5,911381E+21	6,194944E+22	1,182326E+22	7,377270E+22
1657	3,097367E+22	3,097503E+22	5,911967E+21	5,912126E+21	6,194869E+22	1,182409E+22	7,377278E+22
1658	3,097452E+22	3,097303E+22	5,911905E+21	5,912349E+21	6,194755E+22	1,182425E+22	7,377181E+22
1659	3,097246E+22	3,097292E+22	5,912896E+21	5,912128E+21	6,194538E+22	1,182502E+22	7,377040E+22
1660	3,097255E+22	3,097312E+22	5,912510E+21	5,912988E+21	6,194567E+22	1,182550E+22	7,377117E+22
1661	3,097290E+22	3,097163E+22	5,912727E+21	5,912722E+21	6,194453E+22	1,182545E+22	7,376998E+22
1662	3,097122E+22	3,097263E+22	5,913141E+21	5,912669E+21	6,194385E+22	1,182581E+22	7,376966E+22
1663	3,097270E+22	3,097244E+22	5,912362E+21	5,913080E+21	6,194515E+22	1,182544E+22	7,377059E+22
1664	3,097278E+22	3,097191E+22	5,912725E+21	5,912241E+21	6,194469E+22	1,182497E+22	7,376965E+22
1665	3,097229E+22	3,097362E+22	5,912508E+21	5,912253E+21	6,194590E+22	1,182476E+22	7,377067E+22
1666	3,097416E+22	3,097319E+22	5,911752E+21	5,912233E+21	6,194735E+22	1,182398E+22	7,377134E+22
1667	3,097306E+22	3,097372E+22	5,912256E+21	5,911535E+21	6,194678E+22	1,182379E+22	7,377057E+22
1668	3,097357E+22	3,097492E+22	5,911692E+21	5,911996E+21	6,194850E+22	1,182369E+22	7,377219E+22
1669	3,097509E+22	3,097377E+22	5,911427E+21	5,911609E+21	6,194886E+22	1,182304E+22	7,377190E+22
1670	3,097396E+22	3,097460E+22	5,911892E+21	5,911260E+21	6,194856E+22	1,182315E+22	7,377171E+22
1671	3,097517E+22	3,097492E+22	5,911247E+21	5,911870E+21	6,195009E+22	1,182312E+22	7,377321E+22
1672	3,097508E+22	3,097383E+22	5,911698E+21	5,911508E+21	6,194891E+22	1,182321E+22	7,377211E+22
1673	3,097328E+22	3,097491E+22	5,912152E+21	5,911818E+21	6,194819E+22	1,182397E+22	7,377216E+22
1674	3,097418E+22	3,097380E+22	5,911769E+21	5,912494E+21	6,194799E+22	1,182426E+22	7,377225E+22
1675	3,097264E+22	3,097253E+22	5,912775E+21	5,912228E+21	6,194517E+22	1,182500E+22	7,377017E+22
1676	3,097178E+22	3,097295E+22	5,912895E+21	5,912932E+21	6,194474E+22	1,182583E+22	7,377056E+22
1677	3,097264E+22	3,097104E+22	5,912832E+21	5,913208E+21	6,194368E+22	1,182604E+22	7,376972E+22
1678	3,097062E+22	3,097093E+22	5,913667E+21	5,913046E+21	6,194156E+22	1,182671E+22	7,376827E+22
1679	3,097077E+22	3,097136E+22	5,913238E+21	5,913858E+21	6,194213E+22	1,182710E+22	7,376922E+22
1680	3,097112E+22	3,096986E+22	5,913465E+21	5,913564E+21	6,194098E+22	1,182703E+22	7,376801E+22
1681	3,096972E+22	3,097100E+22	5,913830E+21	5,913293E+21	6,194072E+22	1,182712E+22	7,376784E+22
1682	3,097140E+22	3,097092E+22	5,913033E+21	5,913641E+21	6,194232E+22	1,182667E+22	7,376900E+22
1683	3,097105E+22	3,097040E+22	5,913432E+21	5,912859E+21	6,194145E+22	1,182629E+22	7,376775E+22
1684	3,097050E+22	3,097226E+22	5,913243E+21	5,912921E+21	6,194277E+22	1,182616E+22	7,376893E+22
1685	3,097227E+22	3,097173E+22	5,912512E+21	5,912979E+21	6,194400E+22	1,182549E+22	7,376949E+22
1686	3,097151E+22	3,097190E+22	5,912892E+21	5,912290E+21	6,194342E+22	1,182518E+22	7,376860E+22
1687	3,097230E+22	3,097314E+22	5,912326E+21	5,912666E+21	6,194545E+22	1,182499E+22	7,377044E+22
1688	3,097371E+22	3,097210E+22	5,912116E+21	5,912330E+21	6,194581E+22	1,182445E+22	7,377026E+22
1689	3,097251E+22	3,097314E+22	5,912591E+21	5,911936E+21	6,194565E+22	1,182453E+22	7,377018E+22
1690	3,097344E+22	3,097352E+22	5,912006E+21	5,912646E+21	6,194697E+22	1,182465E+22	7,377162E+22
1691	3,097284E+22	3,097215E+22	5,912561E+21	5,912402E+21	6,194499E+22	1,182496E+22	7,376995E+22
1692	3,097120E+22	3,097297E+22	5,913091E+21	5,912685E+21	6,194418E+22	1,182578E+22	7,376995E+22
1693	3,097221E+22	3,097167E+22	5,912732E+21	5,913355E+21	6,194388E+22	1,182609E+22	7,376996E+22
1694	3,097090E+22	3,097019E+22	5,913596E+21	5,913097E+21	6,194109E+22	1,182669E+22	7,376778E+22
1695	3,097006E+22	3,097090E+22	5,913690E+21	5,913783E+21	6,194095E+22	1,182747E+22	7,376843E+22
1696	3,097064E+22	3,096925E+22	5,913631E+21	5,914143E+21	6,193990E+22	1,182777E+22	7,376767E+22
1697	3,096874E+22	3,096930E+22	5,914422E+21	5,913859E+21	6,193804E+22	1,182828E+22	7,376632E+22
1698	3,096913E+22	3,096976E+22	5,913999E+21	5,914579E+21	6,193889E+22	1,182858E+22	7,376747E+22
1699	3,096934E+22	3,096818E+22	5,914249E+21	5,914236E+21	6,193752E+22	1,182849E+22	7,376600E+22
1700	3,096811E+22	3,096942E+22	5,914635E+21	5,913899E+21	6,193754E+22	1,182853E+22	7,376607E+22
1701	3,096967E+22	3,096944E+22	5,913834E+21	5,914315E+21	6,193911E+22	1,182815E+22	7,376725E+22
1702	3,096930E+22	3,096873E+22	5,914081E+21	5,913642E+21	6,193803E+22	1,182772E+22	7,376575E+22
1703	3,096890E+22	3,097061E+22	5,913876E+21	5,913697E+21	6,193950E+22	1,182757E+22	7,376708E+22
1704	3,097076E+22	3,096999E+22	5,913152E+21	5,913754E+21	6,194075E+22	1,182691E+22	7,376766E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1705	3,097030E+22	3,097025E+22	5,913485E+21	5,912900E+21	6,194056E+22	1,182639E+22	7,376694E+22
1706	3,097118E+22	3,097170E+22	5,912958E+21	5,913242E+21	6,194287E+22	1,182620E+22	7,376907E+22
1707	3,097197E+22	3,097068E+22	5,912853E+21	5,913012E+21	6,194265E+22	1,182586E+22	7,376852E+22
1708	3,097056E+22	3,097176E+22	5,913440E+21	5,912692E+21	6,194231E+22	1,182613E+22	7,376844E+22
1709	3,097129E+22	3,097189E+22	5,912933E+21	5,913487E+21	6,194318E+22	1,182642E+22	7,376960E+22
1710	3,097087E+22	3,097000E+22	5,913391E+21	5,913300E+21	6,194087E+22	1,182669E+22	7,376756E+22
1711	3,096951E+22	3,097074E+22	5,913912E+21	5,913532E+21	6,194025E+22	1,182744E+22	7,376769E+22
1712	3,097043E+22	3,096952E+22	5,913564E+21	5,914250E+21	6,193995E+22	1,182781E+22	7,376777E+22
1713	3,096920E+22	3,096833E+22	5,914363E+21	5,913935E+21	6,193752E+22	1,182830E+22	7,376582E+22
1714	3,096829E+22	3,096926E+22	5,914471E+21	5,914640E+21	6,193755E+22	1,182911E+22	7,376666E+22
1715	3,096850E+22	3,096757E+22	5,914496E+21	5,915024E+21	6,193607E+22	1,182952E+22	7,376559E+22
1716	3,096689E+22	3,096756E+22	5,915328E+21	5,914626E+21	6,193446E+22	1,182995E+22	7,376441E+22
1717	3,096736E+22	3,096799E+22	5,914912E+21	5,915281E+21	6,193535E+22	1,183019E+22	7,376555E+22
1718	3,096767E+22	3,096629E+22	5,914996E+21	5,914959E+21	6,193396E+22	1,182996E+22	7,376392E+22
1719	3,096645E+22	3,096767E+22	5,915328E+21	5,914631E+21	6,193412E+22	1,182996E+22	7,376408E+22
1720	3,096772E+22	3,096784E+22	5,914504E+21	5,915129E+21	6,193556E+22	1,182963E+22	7,376519E+22
1721	3,096768E+22	3,096717E+22	5,914653E+21	5,914355E+21	6,193484E+22	1,182901E+22	7,376385E+22
1722	3,096762E+22	3,096902E+22	5,914459E+21	5,914319E+21	6,193664E+22	1,182878E+22	7,376542E+22
1723	3,096933E+22	3,096845E+22	5,913815E+21	5,914358E+21	6,193778E+22	1,182817E+22	7,376596E+22
1724	3,096902E+22	3,096884E+22	5,914220E+21	5,913478E+21	6,193786E+22	1,182770E+22	7,376555E+22
1725	3,096954E+22	3,097037E+22	5,913772E+21	5,913919E+21	6,193991E+22	1,182769E+22	7,376760E+22
1726	3,097010E+22	3,096907E+22	5,913590E+21	5,913852E+21	6,193917E+22	1,182744E+22	7,376661E+22
1727	3,096870E+22	3,096987E+22	5,914232E+21	5,913572E+21	6,193857E+22	1,182780E+22	7,376637E+22
1728	3,096935E+22	3,096984E+22	5,913761E+21	5,914382E+21	6,193919E+22	1,182814E+22	7,376734E+22
1729	3,096927E+22	3,096792E+22	5,914150E+21	5,914092E+21	6,193718E+22	1,182824E+22	7,376543E+22
1730	3,096799E+22	3,096881E+22	5,914691E+21	5,914301E+21	6,193681E+22	1,182899E+22	7,376580E+22
1731	3,096838E+22	3,096776E+22	5,914426E+21	5,915111E+21	6,193614E+22	1,182954E+22	7,376568E+22
1732	3,096712E+22	3,096671E+22	5,915278E+21	5,914800E+21	6,193383E+22	1,183008E+22	7,376391E+22
1733	3,096618E+22	3,096759E+22	5,915438E+21	5,915505E+21	6,193377E+22	1,183094E+22	7,376471E+22
1734	3,096658E+22	3,096555E+22	5,915347E+21	5,915873E+21	6,193213E+22	1,183122E+22	7,376335E+22
1735	3,096525E+22	3,096557E+22	5,916146E+21	5,915401E+21	6,193082E+22	1,183155E+22	7,376237E+22
1736	3,096558E+22	3,096613E+22	5,915686E+21	5,916053E+21	6,193171E+22	1,183174E+22	7,376345E+22
1737	3,096598E+22	3,096461E+22	5,915638E+21	5,915697E+21	6,193059E+22	1,183133E+22	7,376192E+22
1738	3,096484E+22	3,096614E+22	5,915925E+21	5,915361E+21	6,193099E+22	1,183129E+22	7,376227E+22
1739	3,096593E+22	3,096624E+22	5,915168E+21	5,915859E+21	6,193217E+22	1,183103E+22	7,376320E+22
1740	3,096632E+22	3,096561E+22	5,915350E+21	5,914961E+21	6,193193E+22	1,183031E+22	7,376224E+22
1741	3,096638E+22	3,096755E+22	5,915198E+21	5,914884E+21	6,193393E+22	1,183008E+22	7,376401E+22
1742	3,096794E+22	3,096689E+22	5,914481E+21	5,914986E+21	6,193483E+22	1,182947E+22	7,376430E+22
1743	3,096747E+22	3,096736E+22	5,914924E+21	5,914197E+21	6,193482E+22	1,182912E+22	7,376395E+22
1744	3,096752E+22	3,096884E+22	5,914529E+21	5,914735E+21	6,193636E+22	1,182926E+22	7,376563E+22
1745	3,096827E+22	3,096735E+22	5,914301E+21	5,914653E+21	6,193561E+22	1,182895E+22	7,376457E+22
1746	3,096712E+22	3,096798E+22	5,914962E+21	5,914333E+21	6,193510E+22	1,182930E+22	7,376439E+22
1747	3,096752E+22	3,096790E+22	5,914592E+21	5,915175E+21	6,193542E+22	1,182977E+22	7,376518E+22
1748	3,096757E+22	3,096611E+22	5,915034E+21	5,914883E+21	6,193368E+22	1,182992E+22	7,376360E+22
1749	3,096607E+22	3,096712E+22	5,915622E+21	5,915183E+21	6,193318E+22	1,183080E+22	7,376399E+22
1750	3,096629E+22	3,096588E+22	5,915291E+21	5,916094E+21	6,193217E+22	1,183139E+22	7,376356E+22
1751	3,096524E+22	3,096465E+22	5,916162E+21	5,915756E+21	6,192989E+22	1,183192E+22	7,376181E+22
1752	3,096424E+22	3,096551E+22	5,916322E+21	5,916373E+21	6,192975E+22	1,183270E+22	7,376244E+22
1753	3,096498E+22	3,096359E+22	5,916094E+21	5,916612E+21	6,192857E+22	1,183271E+22	7,376128E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1754	3,096368E+22	3,096377E+22	5,916845E+21	5,916087E+21	6,192745E+22	1,183293E+22	7,376038E+22
1755	3,096351E+22	3,096454E+22	5,916432E+21	5,916794E+21	6,192805E+22	1,183323E+22	7,376127E+22
1756	3,096409E+22	3,096314E+22	5,916384E+21	5,916409E+21	6,192722E+22	1,183279E+22	7,376002E+22
1757	3,096315E+22	3,096461E+22	5,916681E+21	5,916051E+21	6,192776E+22	1,183273E+22	7,376050E+22
1758	3,096449E+22	3,096450E+22	5,915832E+21	5,916526E+21	6,192899E+22	1,183236E+22	7,376135E+22
1759	3,096517E+22	3,096395E+22	5,916008E+21	5,915591E+21	6,192912E+22	1,183160E+22	7,376072E+22
1760	3,096493E+22	3,096608E+22	5,915879E+21	5,915535E+21	6,193101E+22	1,183141E+22	7,376243E+22
1761	3,096642E+22	3,096554E+22	5,915088E+21	5,915678E+21	6,193196E+22	1,183077E+22	7,376273E+22
1762	3,096582E+22	3,096593E+22	5,915566E+21	5,914947E+21	6,193175E+22	1,183051E+22	7,376226E+22
1763	3,096554E+22	3,096715E+22	5,915302E+21	5,915527E+21	6,193269E+22	1,183083E+22	7,376352E+22
1764	3,096659E+22	3,096554E+22	5,915132E+21	5,915388E+21	6,193214E+22	1,183052E+22	7,376266E+22
1765	3,096555E+22	3,096614E+22	5,915827E+21	5,915090E+21	6,193169E+22	1,183092E+22	7,376260E+22
1766	3,096576E+22	3,096589E+22	5,915415E+21	5,916022E+21	6,193165E+22	1,183144E+22	7,376308E+22
1767	3,096572E+22	3,096423E+22	5,915879E+21	5,915810E+21	6,192995E+22	1,183169E+22	7,376163E+22
1768	3,096392E+22	3,096527E+22	5,916488E+21	5,916128E+21	6,192919E+22	1,183262E+22	7,376181E+22
1769	3,096439E+22	3,096393E+22	5,916098E+21	5,916963E+21	6,192832E+22	1,183306E+22	7,376138E+22
1770	3,096359E+22	3,096273E+22	5,916953E+21	5,916527E+21	6,192632E+22	1,183348E+22	7,375980E+22
1771	3,096231E+22	3,096363E+22	5,917178E+21	5,917113E+21	6,192594E+22	1,183429E+22	7,376023E+22
1772	3,096315E+22	3,096192E+22	5,916953E+21	5,917327E+21	6,192506E+22	1,183428E+22	7,375935E+22
1773	3,096174E+22	3,096221E+22	5,917669E+21	5,916878E+21	6,192395E+22	1,183455E+22	7,375850E+22
1774	3,096151E+22	3,096272E+22	5,917171E+21	5,917636E+21	6,192423E+22	1,183481E+22	7,375903E+22
1775	3,096252E+22	3,096126E+22	5,917104E+21	5,917201E+21	6,192379E+22	1,183431E+22	7,375809E+22
1776	3,096172E+22	3,096284E+22	5,917368E+21	5,916739E+21	6,192455E+22	1,183411E+22	7,375866E+22
1777	3,096335E+22	3,096293E+22	5,916423E+21	5,917120E+21	6,192627E+22	1,183354E+22	7,375982E+22
1778	3,096393E+22	3,096263E+22	5,916579E+21	5,916178E+21	6,192656E+22	1,183276E+22	7,375931E+22
1779	3,096304E+22	3,096483E+22	5,916560E+21	5,916208E+21	6,192787E+22	1,183277E+22	7,376064E+22
1780	3,096455E+22	3,096424E+22	5,915838E+21	5,916368E+21	6,192879E+22	1,183221E+22	7,376100E+22
1781	3,096406E+22	3,096432E+22	5,916370E+21	5,915692E+21	6,192838E+22	1,183206E+22	7,376044E+22
1782	3,096384E+22	3,096517E+22	5,916078E+21	5,916300E+21	6,192900E+22	1,183238E+22	7,376138E+22
1783	3,096517E+22	3,096351E+22	5,915924E+21	5,916196E+21	6,192867E+22	1,183212E+22	7,376079E+22
1784	3,096381E+22	3,096424E+22	5,916628E+21	5,915935E+21	6,192805E+22	1,183256E+22	7,376061E+22
1785	3,096401E+22	3,096414E+22	5,916147E+21	5,916905E+21	6,192815E+22	1,183305E+22	7,376121E+22
1786	3,096391E+22	3,096248E+22	5,916635E+21	5,916689E+21	6,192639E+22	1,183332E+22	7,375971E+22
1787	3,096184E+22	3,096339E+22	5,917380E+21	5,916974E+21	6,192524E+22	1,183435E+22	7,375959E+22
1788	3,096257E+22	3,096211E+22	5,917034E+21	5,917701E+21	6,192468E+22	1,183474E+22	7,375941E+22
1789	3,096176E+22	3,096094E+22	5,917888E+21	5,917290E+21	6,192270E+22	1,183518E+22	7,375787E+22
1790	3,096021E+22	3,096169E+22	5,918035E+21	5,917940E+21	6,192190E+22	1,183598E+22	7,375788E+22
1791	3,096111E+22	3,096003E+22	5,917772E+21	5,918216E+21	6,192115E+22	1,183599E+22	7,375714E+22
1792	3,095969E+22	3,096036E+22	5,918428E+21	5,917732E+21	6,192005E+22	1,183616E+22	7,375621E+22
1793	3,096000E+22	3,096087E+22	5,917811E+21	5,918382E+21	6,192087E+22	1,183619E+22	7,375706E+22
1794	3,096135E+22	3,095966E+22	5,917687E+21	5,917820E+21	6,192100E+22	1,183551E+22	7,375651E+22
1795	3,096033E+22	3,096140E+22	5,918025E+21	5,917323E+21	6,192173E+22	1,183535E+22	7,375707E+22
1796	3,096190E+22	3,096177E+22	5,917127E+21	5,917681E+21	6,192367E+22	1,183481E+22	7,375848E+22
1797	3,096226E+22	3,096150E+22	5,917295E+21	5,916872E+21	6,192376E+22	1,183417E+22	7,375793E+22
1798	3,096113E+22	3,096317E+22	5,917281E+21	5,916980E+21	6,192431E+22	1,183426E+22	7,375857E+22
1799	3,096292E+22	3,096234E+22	5,916600E+21	5,917153E+21	6,192525E+22	1,183375E+22	7,375901E+22
1800	3,096250E+22	3,096236E+22	5,917105E+21	5,916433E+21	6,192486E+22	1,183354E+22	7,375840E+22
1801	3,096249E+22	3,096322E+22	5,916755E+21	5,917029E+21	6,192571E+22	1,183378E+22	7,375949E+22
1802	3,096365E+22	3,096187E+22	5,916599E+21	5,916951E+21	6,192551E+22	1,183355E+22	7,375906E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1803	3,096176E+22	3,096267E+22	5,917419E+21	5,916769E+21	6,192443E+22	1,183419E+22	7,375862E+22
1804	3,096197E+22	3,096259E+22	5,917047E+21	5,917707E+21	6,192456E+22	1,183475E+22	7,375931E+22
1805	3,096196E+22	3,096078E+22	5,917578E+21	5,917531E+21	6,192274E+22	1,183511E+22	7,375785E+22
1806	3,095981E+22	3,096130E+22	5,918312E+21	5,917818E+21	6,192111E+22	1,183613E+22	7,375723E+22
1807	3,096071E+22	3,096001E+22	5,917973E+21	5,918574E+21	6,192071E+22	1,183655E+22	7,375726E+22
1808	3,095967E+22	3,095895E+22	5,918753E+21	5,918193E+21	6,191861E+22	1,183695E+22	7,375556E+22
1809	3,095829E+22	3,095973E+22	5,918762E+21	5,918858E+21	6,191802E+22	1,183762E+22	7,375564E+22
1810	3,095940E+22	3,095818E+22	5,918436E+21	5,919061E+21	6,191758E+22	1,183750E+22	7,375508E+22
1811	3,095803E+22	3,095855E+22	5,919131E+21	5,918476E+21	6,191659E+22	1,183761E+22	7,375419E+22
1812	3,095873E+22	3,095936E+22	5,918541E+21	5,918957E+21	6,191809E+22	1,183750E+22	7,375559E+22
1813	3,096004E+22	3,095838E+22	5,918409E+21	5,918403E+21	6,191842E+22	1,183681E+22	7,375523E+22
1814	3,095860E+22	3,096000E+22	5,918733E+21	5,917966E+21	6,191860E+22	1,183670E+22	7,375530E+22
1815	3,096012E+22	3,096032E+22	5,917854E+21	5,918396E+21	6,192044E+22	1,183625E+22	7,375669E+22
1816	3,096031E+22	3,095986E+22	5,918011E+21	5,917611E+21	6,192017E+22	1,183562E+22	7,375580E+22
1817	3,095963E+22	3,096131E+22	5,917913E+21	5,917695E+21	6,192095E+22	1,183561E+22	7,375655E+22
1818	3,096163E+22	3,096057E+22	5,917209E+21	5,917822E+21	6,192219E+22	1,183503E+22	7,375722E+22
1819	3,096098E+22	3,096069E+22	5,917802E+21	5,917138E+21	6,192167E+22	1,183494E+22	7,375661E+22
1820	3,096090E+22	3,096181E+22	5,917534E+21	5,917741E+21	6,192271E+22	1,183527E+22	7,375798E+22
1821	3,096178E+22	3,096051E+22	5,917424E+21	5,917801E+21	6,192229E+22	1,183523E+22	7,375752E+22
1822	3,095964E+22	3,096080E+22	5,918308E+21	5,917672E+21	6,192045E+22	1,183598E+22	7,375643E+22
1823	3,096010E+22	3,096050E+22	5,918007E+21	5,918594E+21	6,192060E+22	1,183660E+22	7,375720E+22
1824	3,096003E+22	3,095868E+22	5,918509E+21	5,918389E+21	6,191871E+22	1,183690E+22	7,375561E+22
1825	3,095805E+22	3,095915E+22	5,919128E+21	5,918683E+21	6,191720E+22	1,183781E+22	7,375501E+22
1826	3,095879E+22	3,095812E+22	5,918724E+21	5,919437E+21	6,191691E+22	1,183816E+22	7,375507E+22
1827	3,095751E+22	3,095712E+22	5,919526E+21	5,919077E+21	6,191463E+22	1,183860E+22	7,375323E+22
1828	3,095644E+22	3,095801E+22	5,919573E+21	5,919615E+21	6,191445E+22	1,183919E+22	7,375364E+22
1829	3,095785E+22	3,095663E+22	5,919222E+21	5,919779E+21	6,191448E+22	1,183900E+22	7,375348E+22
1830	3,095652E+22	3,095680E+22	5,919888E+21	5,919139E+21	6,191332E+22	1,183903E+22	7,375234E+22
1831	3,095731E+22	3,095775E+22	5,919330E+21	5,919610E+21	6,191506E+22	1,183894E+22	7,375400E+22
1832	3,095826E+22	3,095701E+22	5,919123E+21	5,919091E+21	6,191527E+22	1,183821E+22	7,375348E+22
1833	3,095689E+22	3,095841E+22	5,919342E+21	5,918717E+21	6,191529E+22	1,183806E+22	7,375335E+22
1834	3,095847E+22	3,095869E+22	5,918449E+21	5,919103E+21	6,191716E+22	1,183755E+22	7,375471E+22
1835	3,095873E+22	3,095810E+22	5,918660E+21	5,918301E+21	6,191683E+22	1,183696E+22	7,375379E+22
1836	3,095834E+22	3,095970E+22	5,918621E+21	5,918295E+21	6,191804E+22	1,183692E+22	7,375495E+22
1837	3,096023E+22	3,095918E+22	5,917939E+21	5,918510E+21	6,191941E+22	1,183645E+22	7,375586E+22
1838	3,095913E+22	3,095909E+22	5,918561E+21	5,917928E+21	6,191822E+22	1,183649E+22	7,375471E+22
1839	3,095900E+22	3,096013E+22	5,918391E+21	5,918599E+21	6,191914E+22	1,183699E+22	7,375613E+22
1840	3,095972E+22	3,095870E+22	5,918301E+21	5,918668E+21	6,191842E+22	1,183697E+22	7,375539E+22
1841	3,095792E+22	3,095869E+22	5,919126E+21	5,918539E+21	6,191662E+22	1,183767E+22	7,375428E+22
1842	3,095843E+22	3,095848E+22	5,918807E+21	5,919397E+21	6,191691E+22	1,183820E+22	7,375512E+22
1843	3,095810E+22	3,095671E+22	5,919357E+21	5,919247E+21	6,191482E+22	1,183860E+22	7,375342E+22
1844	3,095612E+22	3,095742E+22	5,919985E+21	5,919520E+21	6,191354E+22	1,183951E+22	7,375305E+22
1845	3,095678E+22	3,095646E+22	5,919568E+21	5,920341E+21	6,191324E+22	1,183991E+22	7,375315E+22
1846	3,095548E+22	3,095511E+22	5,920369E+21	5,919946E+21	6,191058E+22	1,184032E+22	7,375090E+22
1847	3,095490E+22	3,095602E+22	5,920435E+21	5,920381E+21	6,191092E+22	1,184082E+22	7,375173E+22
1848	3,095622E+22	3,095490E+22	5,920030E+21	5,920457E+21	6,191112E+22	1,184049E+22	7,375161E+22
1849	3,095504E+22	3,095514E+22	5,920564E+21	5,919829E+21	6,191018E+22	1,184039E+22	7,375058E+22
1850	3,095560E+22	3,095635E+22	5,919947E+21	5,920275E+21	6,191195E+22	1,184022E+22	7,375217E+22
1851	3,095629E+22	3,095555E+22	5,919769E+21	5,919810E+21	6,191185E+22	1,183958E+22	7,375142E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1852	3,095524E+22	3,095690E+22	5,920017E+21	5,919353E+21	6,191214E+22	1,183937E+22	7,375151E+22
1853	3,095702E+22	3,095721E+22	5,919120E+21	5,919753E+21	6,191423E+22	1,183887E+22	7,375311E+22
1854	3,095727E+22	3,095635E+22	5,919352E+21	5,918972E+21	6,191362E+22	1,183832E+22	7,375195E+22
1855	3,095701E+22	3,095802E+22	5,919386E+21	5,919009E+21	6,191503E+22	1,183840E+22	7,375343E+22
1856	3,095848E+22	3,095772E+22	5,918700E+21	5,919295E+21	6,191620E+22	1,183799E+22	7,375419E+22
1857	3,095746E+22	3,095734E+22	5,919264E+21	5,918805E+21	6,191480E+22	1,183807E+22	7,375286E+22
1858	3,095729E+22	3,095831E+22	5,919135E+21	5,919406E+21	6,191559E+22	1,183854E+22	7,375414E+22
1859	3,095795E+22	3,095678E+22	5,919123E+21	5,919477E+21	6,191472E+22	1,183860E+22	7,375332E+22
1860	3,095627E+22	3,095683E+22	5,920010E+21	5,919280E+21	6,191310E+22	1,183929E+22	7,375239E+22
1861	3,095652E+22	3,095684E+22	5,919698E+21	5,920223E+21	6,191337E+22	1,183992E+22	7,375329E+22
1862	3,095582E+22	3,095478E+22	5,920246E+21	5,920163E+21	6,191061E+22	1,184041E+22	7,375101E+22
1863	3,095399E+22	3,095536E+22	5,920919E+21	5,920447E+21	6,190936E+22	1,184137E+22	7,375072E+22
1864	3,095470E+22	3,095451E+22	5,920459E+21	5,921201E+21	6,190921E+22	1,184166E+22	7,375087E+22
1865	3,095392E+22	3,095303E+22	5,921118E+21	5,920764E+21	6,190695E+22	1,184188E+22	7,374883E+22
1866	3,095344E+22	3,095425E+22	5,921145E+21	5,921073E+21	6,190769E+22	1,184222E+22	7,374991E+22
1867	3,095454E+22	3,095337E+22	5,920743E+21	5,921171E+21	6,190791E+22	1,184191E+22	7,374982E+22
1868	3,095331E+22	3,095382E+22	5,921260E+21	5,920514E+21	6,190713E+22	1,184177E+22	7,374890E+22
1869	3,095377E+22	3,095504E+22	5,920630E+21	5,921000E+21	6,190881E+22	1,184163E+22	7,375044E+22
1870	3,095448E+22	3,095375E+22	5,920468E+21	5,920530E+21	6,190823E+22	1,184100E+22	7,374923E+22
1871	3,095394E+22	3,095501E+22	5,920749E+21	5,920020E+21	6,190895E+22	1,184077E+22	7,374972E+22
1872	3,095564E+22	3,095557E+22	5,919834E+21	5,920391E+21	6,191121E+22	1,184023E+22	7,375144E+22
1873	3,095598E+22	3,095472E+22	5,919962E+21	5,919695E+21	6,191070E+22	1,183966E+22	7,375036E+22
1874	3,095546E+22	3,095659E+22	5,920002E+21	5,919726E+21	6,191205E+22	1,183973E+22	7,375178E+22
1875	3,095662E+22	3,095621E+22	5,919420E+21	5,920069E+21	6,191282E+22	1,183949E+22	7,375231E+22
1876	3,095579E+22	3,095576E+22	5,920063E+21	5,919530E+21	6,191155E+22	1,183959E+22	7,375114E+22
1877	3,095560E+22	3,095669E+22	5,919978E+21	5,920144E+21	6,191228E+22	1,184012E+22	7,375241E+22
1878	3,095599E+22	3,095480E+22	5,920032E+21	5,920294E+21	6,191079E+22	1,184033E+22	7,375112E+22
1879	3,095440E+22	3,095482E+22	5,920955E+21	5,920164E+21	6,190923E+22	1,184112E+22	7,375034E+22
1880	3,095425E+22	3,095495E+22	5,920610E+21	5,921165E+21	6,190920E+22	1,184178E+22	7,375097E+22
1881	3,095382E+22	3,095261E+22	5,921044E+21	5,921166E+21	6,190643E+22	1,184221E+22	7,374864E+22
1882	3,095226E+22	3,095324E+22	5,921682E+21	5,921308E+21	6,190551E+22	1,184299E+22	7,374849E+22
1883	3,095305E+22	3,095255E+22	5,921252E+21	5,921991E+21	6,190560E+22	1,184324E+22	7,374885E+22
1884	3,095246E+22	3,095142E+22	5,921898E+21	5,921440E+21	6,190388E+22	1,184334E+22	7,374722E+22
1885	3,095172E+22	3,095294E+22	5,921898E+21	5,921759E+21	6,190466E+22	1,184366E+22	7,374832E+22
1886	3,095243E+22	3,095183E+22	5,921504E+21	5,921915E+21	6,190425E+22	1,184342E+22	7,374767E+22
1887	3,095146E+22	3,095209E+22	5,922039E+21	5,921253E+21	6,190355E+22	1,184329E+22	7,374684E+22
1888	3,095197E+22	3,095334E+22	5,921371E+21	5,921677E+21	6,190530E+22	1,184305E+22	7,374835E+22
1889	3,095322E+22	3,095186E+22	5,921071E+21	5,921228E+21	6,190507E+22	1,184230E+22	7,374737E+22
1890	3,095281E+22	3,095336E+22	5,921324E+21	5,920645E+21	6,190617E+22	1,184197E+22	7,374814E+22
1891	3,095425E+22	3,095418E+22	5,920465E+21	5,921082E+21	6,190843E+22	1,184155E+22	7,374998E+22
1892	3,095447E+22	3,095349E+22	5,920620E+21	5,920395E+21	6,190796E+22	1,184101E+22	7,374898E+22
1893	3,095374E+22	3,095531E+22	5,920731E+21	5,920456E+21	6,190906E+22	1,184119E+22	7,375024E+22
1894	3,095473E+22	3,095441E+22	5,920246E+21	5,920825E+21	6,190915E+22	1,184107E+22	7,375022E+22
1895	3,095413E+22	3,095376E+22	5,920976E+21	5,920301E+21	6,190789E+22	1,184128E+22	7,374917E+22
1896	3,095363E+22	3,095483E+22	5,920899E+21	5,920939E+21	6,190846E+22	1,184184E+22	7,375030E+22
1897	3,095406E+22	3,095273E+22	5,920836E+21	5,921240E+21	6,190679E+22	1,184208E+22	7,374887E+22
1898	3,095237E+22	3,095282E+22	5,921720E+21	5,921097E+21	6,190519E+22	1,184282E+22	7,374801E+22
1899	3,095218E+22	3,095292E+22	5,921427E+21	5,922099E+21	6,190510E+22	1,184353E+22	7,374862E+22
1900	3,095211E+22	3,095073E+22	5,921853E+21	5,921977E+21	6,190284E+22	1,184383E+22	7,374667E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1901	3,095070E+22	3,095159E+22	5,922490E+21	5,922043E+21	6,190228E+22	1,184453E+22	7,374682E+22
1902	3,095125E+22	3,095078E+22	5,922123E+21	5,922732E+21	6,190203E+22	1,184486E+22	7,374689E+22
1903	3,095069E+22	3,094979E+22	5,922773E+21	5,922213E+21	6,190048E+22	1,184499E+22	7,374546E+22
1904	3,094957E+22	3,095143E+22	5,922720E+21	5,922537E+21	6,190100E+22	1,184526E+22	7,374626E+22
1905	3,095058E+22	3,094991E+22	5,922190E+21	5,922747E+21	6,190050E+22	1,184494E+22	7,374543E+22
1906	3,095001E+22	3,095016E+22	5,922651E+21	5,921950E+21	6,190016E+22	1,184460E+22	7,374476E+22
1907	3,095064E+22	3,095156E+22	5,922008E+21	5,922324E+21	6,190220E+22	1,184433E+22	7,374653E+22
1908	3,095205E+22	3,095051E+22	5,921685E+21	5,921814E+21	6,190257E+22	1,184350E+22	7,374607E+22
1909	3,095142E+22	3,095228E+22	5,921934E+21	5,921265E+21	6,190370E+22	1,184320E+22	7,374690E+22
1910	3,095235E+22	3,095282E+22	5,921191E+21	5,921778E+21	6,190517E+22	1,184297E+22	7,374814E+22
1911	3,095274E+22	3,095195E+22	5,921419E+21	5,921121E+21	6,190469E+22	1,184254E+22	7,374723E+22
1912	3,095186E+22	3,095364E+22	5,921566E+21	5,921161E+21	6,190550E+22	1,184273E+22	7,374822E+22
1913	3,095311E+22	3,095238E+22	5,921013E+21	5,921631E+21	6,190549E+22	1,184264E+22	7,374814E+22
1914	3,095254E+22	3,095177E+22	5,921726E+21	5,921111E+21	6,190431E+22	1,184284E+22	7,374715E+22
1915	3,095173E+22	3,095294E+22	5,921690E+21	5,921842E+21	6,190467E+22	1,184353E+22	7,374820E+22
1916	3,095215E+22	3,095099E+22	5,921614E+21	5,922151E+21	6,190315E+22	1,184377E+22	7,374691E+22
1917	3,095052E+22	3,095103E+22	5,922510E+21	5,921971E+21	6,190155E+22	1,184448E+22	7,374603E+22
1918	3,095030E+22	3,095086E+22	5,922331E+21	5,922928E+21	6,190115E+22	1,184526E+22	7,374641E+22
1919	3,095051E+22	3,094880E+22	5,922798E+21	5,922751E+21	6,189931E+22	1,184555E+22	7,374486E+22
1920	3,094876E+22	3,094995E+22	5,923425E+21	5,922791E+21	6,189871E+22	1,184622E+22	7,374492E+22
1921	3,094927E+22	3,094898E+22	5,922928E+21	5,923590E+21	6,189826E+22	1,184652E+22	7,374478E+22
1922	3,094866E+22	3,094800E+22	5,923503E+21	5,923036E+21	6,189666E+22	1,184654E+22	7,374320E+22
1923	3,094761E+22	3,094958E+22	5,923441E+21	5,923329E+21	6,189719E+22	1,184677E+22	7,374396E+22
1924	3,094908E+22	3,094820E+22	5,922842E+21	5,923425E+21	6,189728E+22	1,184627E+22	7,374354E+22
1925	3,094875E+22	3,094866E+22	5,923260E+21	5,922558E+21	6,189742E+22	1,184582E+22	7,374323E+22
1926	3,094923E+22	3,095003E+22	5,922701E+21	5,922952E+21	6,189926E+22	1,184565E+22	7,374491E+22
1927	3,095059E+22	3,094919E+22	5,922404E+21	5,922488E+21	6,189978E+22	1,184489E+22	7,374467E+22
1928	3,094958E+22	3,095103E+22	5,922673E+21	5,921966E+21	6,190061E+22	1,184464E+22	7,374525E+22
1929	3,095068E+22	3,095105E+22	5,921881E+21	5,922552E+21	6,190173E+22	1,184443E+22	7,374616E+22
1930	3,095126E+22	3,095005E+22	5,922106E+21	5,921844E+21	6,190131E+22	1,184395E+22	7,374526E+22
1931	3,095029E+22	3,095175E+22	5,922313E+21	5,921903E+21	6,190204E+22	1,184422E+22	7,374626E+22
1932	3,095149E+22	3,095073E+22	5,921753E+21	5,922388E+21	6,190222E+22	1,184414E+22	7,374636E+22
1933	3,095072E+22	3,095023E+22	5,922460E+21	5,921924E+21	6,190096E+22	1,184438E+22	7,374534E+22
1934	3,094958E+22	3,095106E+22	5,922558E+21	5,922716E+21	6,190063E+22	1,184527E+22	7,374591E+22
1935	3,095024E+22	3,094908E+22	5,922543E+21	5,923013E+21	6,189933E+22	1,184556E+22	7,374488E+22
1936	3,094860E+22	3,094919E+22	5,923449E+21	5,922779E+21	6,189779E+22	1,184623E+22	7,374402E+22
1937	3,094858E+22	3,094878E+22	5,923213E+21	5,923790E+21	6,189736E+22	1,184700E+22	7,374436E+22
1938	3,094878E+22	3,094693E+22	5,923633E+21	5,923596E+21	6,189571E+22	1,184723E+22	7,374294E+22
1939	3,094670E+22	3,094818E+22	5,924246E+21	5,923677E+21	6,189488E+22	1,184792E+22	7,374280E+22
1940	3,094725E+22	3,094733E+22	5,923680E+21	5,924435E+21	6,189458E+22	1,184811E+22	7,374270E+22
1941	3,094690E+22	3,094626E+22	5,924184E+21	5,923792E+21	6,189315E+22	1,184798E+22	7,374113E+22
1942	3,094595E+22	3,094758E+22	5,924196E+21	5,924016E+21	6,189352E+22	1,184821E+22	7,374173E+22
1943	3,094776E+22	3,094655E+22	5,923587E+21	5,924051E+21	6,189431E+22	1,184764E+22	7,374195E+22
1944	3,094723E+22	3,094734E+22	5,923971E+21	5,923176E+21	6,189457E+22	1,184715E+22	7,374172E+22
1945	3,094765E+22	3,094853E+22	5,923347E+21	5,923676E+21	6,189619E+22	1,184702E+22	7,374321E+22
1946	3,094897E+22	3,094771E+22	5,923026E+21	5,923190E+21	6,189669E+22	1,184622E+22	7,374290E+22
1947	3,094790E+22	3,094939E+22	5,923348E+21	5,922664E+21	6,189730E+22	1,184601E+22	7,374331E+22
1948	3,094920E+22	3,094948E+22	5,922550E+21	5,923195E+21	6,189868E+22	1,184575E+22	7,374442E+22
1949	3,094984E+22	3,094849E+22	5,922784E+21	5,922506E+21	6,189833E+22	1,184529E+22	7,374362E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1950	3,094855E+22	3,094998E+22	5,923134E+21	5,922668E+21	6,189852E+22	1,184580E+22	7,374432E+22
1951	3,094963E+22	3,094911E+22	5,922613E+21	5,923245E+21	6,189874E+22	1,184586E+22	7,374460E+22
1952	3,094861E+22	3,094855E+22	5,923334E+21	5,922819E+21	6,189716E+22	1,184615E+22	7,374332E+22
1953	3,094774E+22	3,094886E+22	5,923409E+21	5,923657E+21	6,189659E+22	1,184707E+22	7,374366E+22
1954	3,094861E+22	3,094695E+22	5,923388E+21	5,923871E+21	6,189556E+22	1,184726E+22	7,374282E+22
1955	3,094686E+22	3,094723E+22	5,924329E+21	5,923631E+21	6,189409E+22	1,184796E+22	7,374205E+22
1956	3,094672E+22	3,094709E+22	5,924051E+21	5,924616E+21	6,189382E+22	1,184867E+22	7,374248E+22
1957	3,094671E+22	3,094535E+22	5,924418E+21	5,924434E+21	6,189205E+22	1,184885E+22	7,374091E+22
1958	3,094445E+22	3,094624E+22	5,925097E+21	5,924518E+21	6,189069E+22	1,184961E+22	7,374031E+22
1959	3,094533E+22	3,094542E+22	5,924516E+21	5,925196E+21	6,189075E+22	1,184971E+22	7,374046E+22
1960	3,094519E+22	3,094450E+22	5,924960E+21	5,924477E+21	6,188969E+22	1,184944E+22	7,373912E+22
1961	3,094461E+22	3,094565E+22	5,924893E+21	5,924727E+21	6,189026E+22	1,184962E+22	7,373988E+22
1962	3,094645E+22	3,094500E+22	5,924231E+21	5,924737E+21	6,189145E+22	1,184897E+22	7,374041E+22
1963	3,094565E+22	3,094599E+22	5,924602E+21	5,923904E+21	6,189164E+22	1,184851E+22	7,374015E+22
1964	3,094605E+22	3,094722E+22	5,923962E+21	5,924357E+21	6,189327E+22	1,184832E+22	7,374159E+22
1965	3,094750E+22	3,094629E+22	5,923635E+21	5,923811E+21	6,189378E+22	1,184745E+22	7,374123E+22
1966	3,094635E+22	3,094761E+22	5,924097E+21	5,923299E+21	6,189396E+22	1,184740E+22	7,374136E+22
1967	3,094766E+22	3,094791E+22	5,923356E+21	5,923848E+21	6,189557E+22	1,184720E+22	7,374277E+22
1968	3,094800E+22	3,094703E+22	5,923591E+21	5,923261E+21	6,189504E+22	1,184685E+22	7,374189E+22
1969	3,094664E+22	3,094808E+22	5,923915E+21	5,923574E+21	6,189472E+22	1,184749E+22	7,374221E+22
1970	3,094779E+22	3,094718E+22	5,923395E+21	5,924149E+21	6,189497E+22	1,184754E+22	7,374252E+22
1971	3,094681E+22	3,094652E+22	5,924146E+21	5,923704E+21	6,189333E+22	1,184785E+22	7,374118E+22
1972	3,094612E+22	3,094698E+22	5,924217E+21	5,924458E+21	6,189311E+22	1,184868E+22	7,374178E+22
1973	3,094701E+22	3,094524E+22	5,924190E+21	5,924643E+21	6,189225E+22	1,184883E+22	7,374108E+22
1974	3,094483E+22	3,094535E+22	5,925255E+21	5,924480E+21	6,189018E+22	1,184973E+22	7,373992E+22
1975	3,094452E+22	3,094545E+22	5,924981E+21	5,925478E+21	6,188996E+22	1,185046E+22	7,374042E+22
1976	3,094445E+22	3,094355E+22	5,925308E+21	5,925305E+21	6,188800E+22	1,185061E+22	7,373861E+22
1977	3,094260E+22	3,094391E+22	5,925904E+21	5,925381E+21	6,188652E+22	1,185129E+22	7,373780E+22
1978	3,094387E+22	3,094333E+22	5,925254E+21	5,925943E+21	6,188720E+22	1,185120E+22	7,373840E+22
1979	3,094374E+22	3,094274E+22	5,925653E+21	5,925191E+21	6,188649E+22	1,185084E+22	7,373733E+22
1980	3,094316E+22	3,094430E+22	5,925523E+21	5,925398E+21	6,188746E+22	1,185092E+22	7,373839E+22
1981	3,094485E+22	3,094384E+22	5,924825E+21	5,925376E+21	6,188869E+22	1,185020E+22	7,373889E+22
1982	3,094385E+22	3,094450E+22	5,925318E+21	5,924568E+21	6,188836E+22	1,184989E+22	7,373824E+22
1983	3,094439E+22	3,094578E+22	5,924715E+21	5,924958E+21	6,189017E+22	1,184967E+22	7,373984E+22
1984	3,094586E+22	3,094481E+22	5,924390E+21	5,924450E+21	6,189067E+22	1,184884E+22	7,373951E+22
1985	3,094488E+22	3,094567E+22	5,924827E+21	5,924061E+21	6,189055E+22	1,184889E+22	7,373944E+22
1986	3,094610E+22	3,094614E+22	5,924077E+21	5,924666E+21	6,189224E+22	1,184874E+22	7,374099E+22
1987	3,094620E+22	3,094534E+22	5,924309E+21	5,924164E+21	6,189154E+22	1,184847E+22	7,374001E+22
1988	3,094498E+22	3,094628E+22	5,924619E+21	5,924430E+21	6,189126E+22	1,184905E+22	7,374031E+22
1989	3,094624E+22	3,094536E+22	5,924125E+21	5,924910E+21	6,189160E+22	1,184904E+22	7,374064E+22
1990	3,094516E+22	3,094456E+22	5,925021E+21	5,924471E+21	6,188972E+22	1,184949E+22	7,373921E+22
1991	3,094430E+22	3,094532E+22	5,925165E+21	5,925203E+21	6,188962E+22	1,185037E+22	7,373999E+22
1992	3,094481E+22	3,094368E+22	5,925145E+21	5,925489E+21	6,188849E+22	1,185063E+22	7,373913E+22
1993	3,094258E+22	3,094325E+22	5,926157E+21	5,925439E+21	6,188583E+22	1,185160E+22	7,373743E+22
1994	3,094239E+22	3,094330E+22	5,925839E+21	5,926383E+21	6,188569E+22	1,185222E+22	7,373791E+22
1995	3,094254E+22	3,094143E+22	5,926103E+21	5,926162E+21	6,188397E+22	1,185227E+22	7,373623E+22
1996	3,094113E+22	3,094197E+22	5,926603E+21	5,926129E+21	6,188310E+22	1,185273E+22	7,373583E+22
1997	3,094254E+22	3,094176E+22	5,925913E+21	5,926609E+21	6,188431E+22	1,185252E+22	7,373683E+22
1998	3,094214E+22	3,094129E+22	5,926379E+21	5,925902E+21	6,188343E+22	1,185228E+22	7,373571E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1999	3,094140E+22	3,094313E+22	5,926265E+21	5,926069E+21	6,188454E+22	1,185233E+22	7,373687E+22
2000	3,094304E+22	3,094255E+22	5,925563E+21	5,926051E+21	6,188559E+22	1,185161E+22	7,373720E+22
2001	3,094231E+22	3,094256E+22	5,926023E+21	5,925276E+21	6,188487E+22	1,185130E+22	7,373617E+22
2002	3,094302E+22	3,094397E+22	5,925405E+21	5,925617E+21	6,188699E+22	1,185102E+22	7,373801E+22
2003	3,094435E+22	3,094312E+22	5,925066E+21	5,925178E+21	6,188747E+22	1,185024E+22	7,373772E+22
2004	3,094335E+22	3,094411E+22	5,925453E+21	5,924825E+21	6,188745E+22	1,185028E+22	7,373773E+22
2005	3,094448E+22	3,094465E+22	5,924703E+21	5,925407E+21	6,188913E+22	1,185011E+22	7,373924E+22
2006	3,094442E+22	3,094354E+22	5,925074E+21	5,924935E+21	6,188796E+22	1,185001E+22	7,373797E+22
2007	3,094329E+22	3,094466E+22	5,925462E+21	5,925117E+21	6,188795E+22	1,185058E+22	7,373853E+22
2008	3,094450E+22	3,094376E+22	5,925028E+21	5,925645E+21	6,188825E+22	1,185067E+22	7,373893E+22
2009	3,094333E+22	3,094252E+22	5,925947E+21	5,925352E+21	6,188585E+22	1,185130E+22	7,373715E+22
2010	3,094224E+22	3,094344E+22	5,926080E+21	5,926131E+21	6,188568E+22	1,185221E+22	7,373790E+22
2011	3,094249E+22	3,094173E+22	5,926028E+21	5,926496E+21	6,188423E+22	1,185252E+22	7,373675E+22
2012	3,094059E+22	3,094108E+22	5,926948E+21	5,926378E+21	6,188167E+22	1,185333E+22	7,373500E+22
2013	3,094074E+22	3,094119E+22	5,926577E+21	5,927165E+21	6,188193E+22	1,185374E+22	7,373568E+22
2014	3,094094E+22	3,093944E+22	5,926901E+21	5,926915E+21	6,188037E+22	1,185382E+22	7,373419E+22
2015	3,093953E+22	3,094052E+22	5,927400E+21	5,926805E+21	6,188005E+22	1,185420E+22	7,373426E+22
2016	3,094071E+22	3,094056E+22	5,926706E+21	5,927333E+21	6,188127E+22	1,185404E+22	7,373531E+22
2017	3,094030E+22	3,093963E+22	5,927122E+21	5,926690E+21	6,187993E+22	1,185381E+22	7,373375E+22
2018	3,093971E+22	3,094142E+22	5,926985E+21	5,926763E+21	6,188113E+22	1,185375E+22	7,373488E+22
2019	3,094141E+22	3,094085E+22	5,926242E+21	5,926724E+21	6,188226E+22	1,185297E+22	7,373523E+22
2020	3,094104E+22	3,094082E+22	5,926613E+21	5,925921E+21	6,188187E+22	1,185253E+22	7,373440E+22
2021	3,094171E+22	3,094243E+22	5,925991E+21	5,926233E+21	6,188415E+22	1,185222E+22	7,373637E+22
2022	3,094273E+22	3,094166E+22	5,925742E+21	5,925915E+21	6,188438E+22	1,185166E+22	7,373604E+22
2023	3,094161E+22	3,094278E+22	5,926174E+21	5,925547E+21	6,188440E+22	1,185172E+22	7,373612E+22
2024	3,094274E+22	3,094315E+22	5,925507E+21	5,926151E+21	6,188589E+22	1,185166E+22	7,373755E+22
2025	3,094283E+22	3,094150E+22	5,925895E+21	5,925726E+21	6,188433E+22	1,185162E+22	7,373595E+22
2026	3,094169E+22	3,094275E+22	5,926326E+21	5,925881E+21	6,188444E+22	1,185221E+22	7,373665E+22
2027	3,094253E+22	3,094200E+22	5,925912E+21	5,926508E+21	6,188452E+22	1,185242E+22	7,373694E+22
2028	3,094128E+22	3,094067E+22	5,926765E+21	5,926293E+21	6,188195E+22	1,185306E+22	7,373501E+22
2029	3,094012E+22	3,094154E+22	5,926876E+21	5,927017E+21	6,188167E+22	1,185389E+22	7,373556E+22
2030	3,094039E+22	3,093960E+22	5,926893E+21	5,927394E+21	6,187999E+22	1,185429E+22	7,373428E+22
2031	3,093878E+22	3,093919E+22	5,927792E+21	5,927144E+21	6,187797E+22	1,185494E+22	7,373291E+22
2032	3,093911E+22	3,093946E+22	5,927436E+21	5,927920E+21	6,187858E+22	1,185536E+22	7,373393E+22
2033	3,093931E+22	3,093754E+22	5,927725E+21	5,927734E+21	6,187686E+22	1,185546E+22	7,373231E+22
2034	3,093783E+22	3,093898E+22	5,928181E+21	5,927599E+21	6,187681E+22	1,185578E+22	7,373259E+22
2035	3,093881E+22	3,093902E+22	5,927454E+21	5,928127E+21	6,187783E+22	1,185558E+22	7,373341E+22
2036	3,093869E+22	3,093786E+22	5,927766E+21	5,927416E+21	6,187656E+22	1,185518E+22	7,373174E+22
2037	3,093834E+22	3,093972E+22	5,927574E+21	5,927329E+21	6,187806E+22	1,185490E+22	7,373296E+22
2038	3,093993E+22	3,093918E+22	5,926907E+21	5,927330E+21	6,187911E+22	1,185424E+22	7,373334E+22
2039	3,093948E+22	3,093956E+22	5,927288E+21	5,926518E+21	6,187904E+22	1,185381E+22	7,373285E+22
2040	3,094000E+22	3,094121E+22	5,926713E+21	5,926933E+21	6,188121E+22	1,185365E+22	7,373486E+22
2041	3,094095E+22	3,093993E+22	5,926476E+21	5,926715E+21	6,188088E+22	1,185319E+22	7,373407E+22
2042	3,094001E+22	3,094103E+22	5,926928E+21	5,926296E+21	6,188104E+22	1,185322E+22	7,373426E+22
2043	3,094107E+22	3,094138E+22	5,926297E+21	5,926907E+21	6,188245E+22	1,185320E+22	7,373565E+22
2044	3,094134E+22	3,093964E+22	5,926646E+21	5,926529E+21	6,188098E+22	1,185318E+22	7,373416E+22
2045	3,094000E+22	3,094102E+22	5,927093E+21	5,926668E+21	6,188103E+22	1,185376E+22	7,373479E+22
2046	3,094040E+22	3,094024E+22	5,926774E+21	5,927433E+21	6,188063E+22	1,185421E+22	7,373484E+22
2047	3,093912E+22	3,093893E+22	5,927638E+21	5,927183E+21	6,187805E+22	1,185482E+22	7,373287E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2048	3,093815E+22	3,093955E+22	5,927788E+21	5,927890E+21	6,187770E+22	1,185568E+22	7,373338E+22
2049	3,093865E+22	3,093726E+22	5,927776E+21	5,928266E+21	6,187592E+22	1,185604E+22	7,373196E+22
2050	3,093721E+22	3,093717E+22	5,928646E+21	5,927943E+21	6,187439E+22	1,185659E+22	7,373098E+22
2051	3,093726E+22	3,093780E+22	5,928286E+21	5,928739E+21	6,187506E+22	1,185703E+22	7,373209E+22
2052	3,093751E+22	3,093595E+22	5,928443E+21	5,928562E+21	6,187346E+22	1,185701E+22	7,373046E+22
2053	3,093601E+22	3,093738E+22	5,928856E+21	5,928287E+21	6,187339E+22	1,185714E+22	7,373053E+22
2054	3,093697E+22	3,093735E+22	5,928180E+21	5,928793E+21	6,187431E+22	1,185697E+22	7,373129E+22
2055	3,093708E+22	3,093639E+22	5,928457E+21	5,927984E+21	6,187347E+22	1,185644E+22	7,372991E+22
2056	3,093686E+22	3,093825E+22	5,928297E+21	5,927944E+21	6,187511E+22	1,185624E+22	7,373135E+22
2057	3,093836E+22	3,093751E+22	5,927611E+21	5,928070E+21	6,187587E+22	1,185568E+22	7,373155E+22
2058	3,093791E+22	3,093806E+22	5,927959E+21	5,927288E+21	6,187597E+22	1,185525E+22	7,373122E+22
2059	3,093830E+22	3,093964E+22	5,927421E+21	5,927721E+21	6,187793E+22	1,185514E+22	7,373308E+22
2060	3,093957E+22	3,093812E+22	5,927113E+21	5,927472E+21	6,187769E+22	1,185458E+22	7,373227E+22
2061	3,093874E+22	3,093929E+22	5,927581E+21	5,926929E+21	6,187803E+22	1,185451E+22	7,373254E+22
2062	3,093946E+22	3,093972E+22	5,927086E+21	5,927622E+21	6,187917E+22	1,185471E+22	7,373388E+22
2063	3,093942E+22	3,093826E+22	5,927478E+21	5,927289E+21	6,187769E+22	1,185477E+22	7,373245E+22
2064	3,093790E+22	3,093945E+22	5,927991E+21	5,927543E+21	6,187735E+22	1,185553E+22	7,373288E+22
2065	3,093818E+22	3,093807E+22	5,927696E+21	5,928384E+21	6,187625E+22	1,185608E+22	7,373233E+22
2066	3,093722E+22	3,093675E+22	5,928529E+21	5,928068E+21	6,187397E+22	1,185660E+22	7,373057E+22
2067	3,093634E+22	3,093742E+22	5,928677E+21	5,928737E+21	6,187376E+22	1,185741E+22	7,373117E+22
2068	3,093707E+22	3,093523E+22	5,928569E+21	5,929124E+21	6,187229E+22	1,185769E+22	7,372999E+22
2069	3,093557E+22	3,093552E+22	5,929384E+21	5,928725E+21	6,187108E+22	1,185811E+22	7,372919E+22
2070	3,093523E+22	3,093624E+22	5,929094E+21	5,929579E+21	6,187147E+22	1,185867E+22	7,373015E+22
2071	3,093549E+22	3,093452E+22	5,929230E+21	5,929303E+21	6,187000E+22	1,185853E+22	7,372854E+22
2072	3,093427E+22	3,093571E+22	5,929641E+21	5,928977E+21	6,186998E+22	1,185862E+22	7,372860E+22
2073	3,093530E+22	3,093536E+22	5,928935E+21	5,929480E+21	6,187067E+22	1,185841E+22	7,372908E+22
2074	3,093561E+22	3,093468E+22	5,929158E+21	5,928658E+21	6,187029E+22	1,185782E+22	7,372810E+22
2075	3,093518E+22	3,093672E+22	5,928994E+21	5,928677E+21	6,187190E+22	1,185767E+22	7,372957E+22
2076	3,093682E+22	3,093595E+22	5,928200E+21	5,928854E+21	6,187277E+22	1,185705E+22	7,372983E+22
2077	3,093652E+22	3,093651E+22	5,928518E+21	5,927949E+21	6,187303E+22	1,185647E+22	7,372949E+22
2078	3,093682E+22	3,093805E+22	5,928096E+21	5,928374E+21	6,187487E+22	1,185647E+22	7,373134E+22
2079	3,093814E+22	3,093677E+22	5,927824E+21	5,928062E+21	6,187490E+22	1,185589E+22	7,373079E+22
2080	3,093723E+22	3,093783E+22	5,928401E+21	5,927616E+21	6,187506E+22	1,185602E+22	7,373108E+22
2081	3,093750E+22	3,093800E+22	5,927961E+21	5,928465E+21	6,187551E+22	1,185643E+22	7,373193E+22
2082	3,093738E+22	3,093648E+22	5,928355E+21	5,928219E+21	6,187386E+22	1,185657E+22	7,373044E+22
2083	3,093574E+22	3,093737E+22	5,928909E+21	5,928493E+21	6,187311E+22	1,185740E+22	7,373051E+22
2084	3,093645E+22	3,093575E+22	5,928493E+21	5,929306E+21	6,187220E+22	1,185780E+22	7,373000E+22
2085	3,093569E+22	3,093460E+22	5,929274E+21	5,928844E+21	6,187029E+22	1,185812E+22	7,372841E+22
2086	3,093457E+22	3,093557E+22	5,929520E+21	5,929553E+21	6,187014E+22	1,185907E+22	7,372921E+22
2087	3,093508E+22	3,093386E+22	5,929408E+21	5,929910E+21	6,186894E+22	1,185932E+22	7,372826E+22
2088	3,093352E+22	3,093405E+22	5,930256E+21	5,929552E+21	6,186757E+22	1,185981E+22	7,372738E+22
2089	3,093309E+22	3,093434E+22	5,929968E+21	5,930393E+21	6,186743E+22	1,186036E+22	7,372779E+22
2090	3,093370E+22	3,093261E+22	5,930030E+21	5,930042E+21	6,186631E+22	1,186007E+22	7,372638E+22
2091	3,093261E+22	3,093380E+22	5,930408E+21	5,929682E+21	6,186640E+22	1,186009E+22	7,372649E+22
2092	3,093391E+22	3,093351E+22	5,929559E+21	5,930215E+21	6,186743E+22	1,185977E+22	7,372720E+22
2093	3,093426E+22	3,093318E+22	5,929696E+21	5,929338E+21	6,186744E+22	1,185903E+22	7,372647E+22
2094	3,093362E+22	3,093531E+22	5,929614E+21	5,929414E+21	6,186894E+22	1,185903E+22	7,372796E+22
2095	3,093530E+22	3,093470E+22	5,928846E+21	5,929484E+21	6,187001E+22	1,185833E+22	7,372834E+22
2096	3,093525E+22	3,093508E+22	5,929223E+21	5,928559E+21	6,187033E+22	1,185778E+22	7,372811E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2097	3,093531E+22	3,093632E+22	5,928886E+21	5,929010E+21	6,187163E+22	1,185790E+22	7,372952E+22
2098	3,093650E+22	3,093523E+22	5,928641E+21	5,928778E+21	6,187173E+22	1,185742E+22	7,372915E+22
2099	3,093520E+22	3,093619E+22	5,929262E+21	5,928458E+21	6,187139E+22	1,185772E+22	7,372911E+22
2100	3,093544E+22	3,093604E+22	5,928742E+21	5,929403E+21	6,187148E+22	1,185815E+22	7,372963E+22
2101	3,093552E+22	3,093443E+22	5,929089E+21	5,929072E+21	6,186995E+22	1,185816E+22	7,372812E+22
2102	3,093393E+22	3,093524E+22	5,929718E+21	5,929349E+21	6,186917E+22	1,185907E+22	7,372824E+22
2103	3,093475E+22	3,093397E+22	5,929323E+21	5,930078E+21	6,186872E+22	1,185940E+22	7,372812E+22
2104	3,093407E+22	3,093291E+22	5,930150E+21	5,929668E+21	6,186698E+22	1,185982E+22	7,372680E+22
2105	3,093249E+22	3,093380E+22	5,930439E+21	5,930449E+21	6,186629E+22	1,186089E+22	7,372718E+22
2106	3,093300E+22	3,093216E+22	5,930311E+21	5,930814E+21	6,186516E+22	1,186112E+22	7,372629E+22
2107	3,093145E+22	3,093207E+22	5,931152E+21	5,930409E+21	6,186352E+22	1,186156E+22	7,372508E+22
2108	3,093141E+22	3,093217E+22	5,930707E+21	5,931180E+21	6,186359E+22	1,186189E+22	7,372547E+22
2109	3,093228E+22	3,093069E+22	5,930660E+21	5,930699E+21	6,186298E+22	1,186136E+22	7,372434E+22
2110	3,093104E+22	3,093214E+22	5,931072E+21	5,930387E+21	6,186318E+22	1,186146E+22	7,372464E+22
2111	3,093227E+22	3,093233E+22	5,930200E+21	5,930873E+21	6,186460E+22	1,186107E+22	7,372568E+22
2112	3,093274E+22	3,093193E+22	5,930362E+21	5,930013E+21	6,186467E+22	1,186038E+22	7,372504E+22
2113	3,093200E+22	3,093376E+22	5,930337E+21	5,930064E+21	6,186576E+22	1,186040E+22	7,372616E+22
2114	3,093390E+22	3,093320E+22	5,929573E+21	5,930092E+21	6,186710E+22	1,185967E+22	7,372677E+22
2115	3,093370E+22	3,093346E+22	5,930010E+21	5,929219E+21	6,186717E+22	1,185923E+22	7,372639E+22
2116	3,093373E+22	3,093461E+22	5,929590E+21	5,929771E+21	6,186834E+22	1,185936E+22	7,372770E+22
2117	3,093475E+22	3,093359E+22	5,929303E+21	5,929584E+21	6,186834E+22	1,185889E+22	7,372723E+22
2118	3,093323E+22	3,093436E+22	5,930019E+21	5,929369E+21	6,186759E+22	1,185939E+22	7,372698E+22
2119	3,093361E+22	3,093423E+22	5,929519E+21	5,930215E+21	6,186784E+22	1,185973E+22	7,372757E+22
2120	3,093401E+22	3,093249E+22	5,929898E+21	5,929862E+21	6,186649E+22	1,185976E+22	7,372625E+22
2121	3,093221E+22	3,093320E+22	5,930600E+21	5,930149E+21	6,186541E+22	1,186075E+22	7,372616E+22
2122	3,093292E+22	3,093225E+22	5,930243E+21	5,930919E+21	6,186517E+22	1,186116E+22	7,372633E+22
2123	3,093191E+22	3,093120E+22	5,931106E+21	5,930584E+21	6,186311E+22	1,186169E+22	7,372480E+22
2124	3,093039E+22	3,093181E+22	5,931287E+21	5,931373E+21	6,186221E+22	1,186266E+22	7,372487E+22
2125	3,093112E+22	3,093017E+22	5,931072E+21	5,931612E+21	6,186129E+22	1,186268E+22	7,372398E+22
2126	3,092967E+22	3,093006E+22	5,931916E+21	5,931185E+21	6,185972E+22	1,186310E+22	7,372282E+22
2127	3,092976E+22	3,093051E+22	5,931436E+21	5,931840E+21	6,186027E+22	1,186328E+22	7,372354E+22
2128	3,093082E+22	3,092922E+22	5,931369E+21	5,931406E+21	6,186004E+22	1,186278E+22	7,372281E+22
2129	3,092928E+22	3,093060E+22	5,931798E+21	5,931145E+21	6,185988E+22	1,186294E+22	7,372283E+22
2130	3,093062E+22	3,093091E+22	5,930942E+21	5,931612E+21	6,186153E+22	1,186255E+22	7,372409E+22
2131	3,093118E+22	3,093033E+22	5,931102E+21	5,930702E+21	6,186150E+22	1,186180E+22	7,372331E+22
2132	3,093068E+22	3,093192E+22	5,930972E+21	5,930709E+21	6,186260E+22	1,186168E+22	7,372428E+22
2133	3,093259E+22	3,093161E+22	5,930170E+21	5,930684E+21	6,186420E+22	1,186085E+22	7,372505E+22
2134	3,093203E+22	3,093193E+22	5,930686E+21	5,929959E+21	6,186396E+22	1,186065E+22	7,372460E+22
2135	3,093180E+22	3,093326E+22	5,930298E+21	5,930514E+21	6,186506E+22	1,186081E+22	7,372587E+22
2136	3,093297E+22	3,093199E+22	5,930057E+21	5,930393E+21	6,186496E+22	1,186045E+22	7,372541E+22
2137	3,093136E+22	3,093235E+22	5,930836E+21	5,930175E+21	6,186371E+22	1,186101E+22	7,372472E+22
2138	3,093201E+22	3,093230E+22	5,930381E+21	5,930989E+21	6,186431E+22	1,186137E+22	7,372568E+22
2139	3,093231E+22	3,093058E+22	5,930809E+21	5,930678E+21	6,186290E+22	1,186149E+22	7,372439E+22
2140	3,093046E+22	3,093130E+22	5,931434E+21	5,931044E+21	6,186175E+22	1,186248E+22	7,372423E+22
2141	3,093099E+22	3,093054E+22	5,931048E+21	5,931819E+21	6,186153E+22	1,186287E+22	7,372439E+22
2142	3,092976E+22	3,092932E+22	5,931975E+21	5,931547E+21	6,185908E+22	1,186352E+22	7,372260E+22
2143	3,092841E+22	3,092997E+22	5,932126E+21	5,932166E+21	6,185837E+22	1,186429E+22	7,372266E+22
2144	3,092949E+22	3,092824E+22	5,931884E+21	5,932355E+21	6,185773E+22	1,186424E+22	7,372197E+22
2145	3,092787E+22	3,092812E+22	5,932730E+21	5,931922E+21	6,185599E+22	1,186465E+22	7,372064E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2146	3,092803E+22	3,092891E+22	5,932230E+21	5,932582E+21	6,185694E+22	1,186481E+22	7,372175E+22
2147	3,092892E+22	3,092771E+22	5,932150E+21	5,932187E+21	6,185662E+22	1,186434E+22	7,372096E+22
2148	3,092765E+22	3,092890E+22	5,932442E+21	5,931901E+21	6,185655E+22	1,186434E+22	7,372089E+22
2149	3,092925E+22	3,092928E+22	5,931530E+21	5,932232E+21	6,185853E+22	1,186376E+22	7,372229E+22
2150	3,092980E+22	3,092873E+22	5,931725E+21	5,931338E+21	6,185853E+22	1,186306E+22	7,372159E+22
2151	3,092927E+22	3,093057E+22	5,931608E+21	5,931264E+21	6,185985E+22	1,186287E+22	7,372272E+22
2152	3,093111E+22	3,093031E+22	5,930839E+21	5,931349E+21	6,186142E+22	1,186219E+22	7,372361E+22
2153	3,093012E+22	3,093037E+22	5,931428E+21	5,930749E+21	6,186049E+22	1,186218E+22	7,372267E+22
2154	3,092999E+22	3,093156E+22	5,931111E+21	5,931320E+21	6,186155E+22	1,186243E+22	7,372398E+22
2155	3,093125E+22	3,093006E+22	5,930908E+21	5,931201E+21	6,186131E+22	1,186211E+22	7,372342E+22
2156	3,092991E+22	3,093020E+22	5,931585E+21	5,930979E+21	6,186011E+22	1,186256E+22	7,372268E+22
2157	3,093050E+22	3,093045E+22	5,931141E+21	5,931765E+21	6,186095E+22	1,186291E+22	7,372385E+22
2158	3,093039E+22	3,092890E+22	5,931641E+21	5,931589E+21	6,185929E+22	1,186323E+22	7,372252E+22
2159	3,092829E+22	3,092974E+22	5,932294E+21	5,931903E+21	6,185804E+22	1,186420E+22	7,372223E+22
2160	3,092896E+22	3,092881E+22	5,931938E+21	5,932685E+21	6,185776E+22	1,186462E+22	7,372239E+22
2161	3,092763E+22	3,092722E+22	5,932889E+21	5,932393E+21	6,185486E+22	1,186528E+22	7,372014E+22
2162	3,092654E+22	3,092793E+22	5,933037E+21	5,932948E+21	6,185447E+22	1,186598E+22	7,372045E+22
2163	3,092766E+22	3,092631E+22	5,932760E+21	5,933158E+21	6,185398E+22	1,186592E+22	7,371989E+22
2164	3,092617E+22	3,092618E+22	5,933428E+21	5,932769E+21	6,185234E+22	1,186620E+22	7,371854E+22
2165	3,092640E+22	3,092727E+22	5,932877E+21	5,933375E+21	6,185367E+22	1,186625E+22	7,371992E+22
2166	3,092728E+22	3,092609E+22	5,932806E+21	5,932968E+21	6,185337E+22	1,186577E+22	7,371915E+22
2167	3,092626E+22	3,092742E+22	5,933069E+21	5,932478E+21	6,185368E+22	1,186555E+22	7,371922E+22
2168	3,092807E+22	3,092788E+22	5,932169E+21	5,932756E+21	6,185595E+22	1,186492E+22	7,372087E+22
2169	3,092819E+22	3,092727E+22	5,932428E+21	5,931937E+21	6,185546E+22	1,186436E+22	7,371982E+22
2170	3,092752E+22	3,092924E+22	5,932368E+21	5,931936E+21	6,185676E+22	1,186430E+22	7,372106E+22
2171	3,092912E+22	3,092883E+22	5,931638E+21	5,932128E+21	6,185795E+22	1,186377E+22	7,372172E+22
2172	3,092839E+22	3,092845E+22	5,932119E+21	5,931572E+21	6,185684E+22	1,186369E+22	7,372053E+22
2173	3,092855E+22	3,092962E+22	5,931796E+21	5,932066E+21	6,185818E+22	1,186386E+22	7,372204E+22
2174	3,092973E+22	3,092820E+22	5,931647E+21	5,932005E+21	6,185793E+22	1,186365E+22	7,372158E+22
2175	3,092836E+22	3,092862E+22	5,932345E+21	5,931725E+21	6,185697E+22	1,186407E+22	7,372104E+22
2176	3,092878E+22	3,092896E+22	5,931968E+21	5,932592E+21	6,185774E+22	1,186456E+22	7,372230E+22
2177	3,092814E+22	3,092720E+22	5,932564E+21	5,932523E+21	6,185534E+22	1,186509E+22	7,372043E+22
2178	3,092618E+22	3,092783E+22	5,933267E+21	5,932794E+21	6,185400E+22	1,186606E+22	7,372006E+22
2179	3,092688E+22	3,092666E+22	5,932913E+21	5,933543E+21	6,185354E+22	1,186646E+22	7,371999E+22
2180	3,092587E+22	3,092489E+22	5,933692E+21	5,933237E+21	6,185076E+22	1,186693E+22	7,371769E+22
2181	3,092488E+22	3,092589E+22	5,933786E+21	5,933743E+21	6,185077E+22	1,186753E+22	7,371830E+22
2182	3,092576E+22	3,092459E+22	5,933499E+21	5,934030E+21	6,185035E+22	1,186753E+22	7,371788E+22
2183	3,092439E+22	3,092470E+22	5,934106E+21	5,933516E+21	6,184910E+22	1,186762E+22	7,371672E+22
2184	3,092491E+22	3,092580E+22	5,933569E+21	5,934035E+21	6,185070E+22	1,186760E+22	7,371831E+22
2185	3,092566E+22	3,092454E+22	5,933529E+21	5,933581E+21	6,185020E+22	1,186711E+22	7,371731E+22
2186	3,092481E+22	3,092595E+22	5,933824E+21	5,933034E+21	6,185076E+22	1,186686E+22	7,371761E+22
2187	3,092641E+22	3,092647E+22	5,932952E+21	5,933388E+21	6,185288E+22	1,186634E+22	7,371922E+22
2188	3,092649E+22	3,092565E+22	5,933076E+21	5,932719E+21	6,185214E+22	1,186579E+22	7,371793E+22
2189	3,092585E+22	3,092757E+22	5,933018E+21	5,932745E+21	6,185342E+22	1,186576E+22	7,371918E+22
2190	3,092745E+22	3,092702E+22	5,932322E+21	5,932981E+21	6,185447E+22	1,186530E+22	7,371977E+22
2191	3,092704E+22	3,092666E+22	5,932768E+21	5,932269E+21	6,185370E+22	1,186504E+22	7,371874E+22
2192	3,092735E+22	3,092798E+22	5,932505E+21	5,932731E+21	6,185534E+22	1,186524E+22	7,372057E+22
2193	3,092798E+22	3,092661E+22	5,932459E+21	5,932763E+21	6,185460E+22	1,186522E+22	7,371982E+22
2194	3,092635E+22	3,092711E+22	5,933265E+21	5,932545E+21	6,185346E+22	1,186581E+22	7,371927E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2195	3,092649E+22	3,092728E+22	5,932955E+21	5,933480E+21	6,185377E+22	1,186643E+22	7,372021E+22
2196	3,092604E+22	3,092498E+22	5,933438E+21	5,933457E+21	6,185102E+22	1,186689E+22	7,371791E+22
2197	3,092436E+22	3,092555E+22	5,934107E+21	5,933649E+21	6,184991E+22	1,186776E+22	7,371767E+22
2198	3,092504E+22	3,092450E+22	5,933741E+21	5,934424E+21	6,184953E+22	1,186816E+22	7,371770E+22
2199	3,092416E+22	3,092305E+22	5,934435E+21	5,934033E+21	6,184721E+22	1,186847E+22	7,371567E+22
2200	3,092322E+22	3,092433E+22	5,934525E+21	5,934543E+21	6,184755E+22	1,186907E+22	7,371662E+22
2201	3,092377E+22	3,092302E+22	5,934295E+21	5,934853E+21	6,184680E+22	1,186915E+22	7,371595E+22
2202	3,092270E+22	3,092312E+22	5,934930E+21	5,934224E+21	6,184583E+22	1,186915E+22	7,371498E+22
2203	3,092330E+22	3,092417E+22	5,934396E+21	5,934668E+21	6,184748E+22	1,186906E+22	7,371654E+22
2204	3,092417E+22	3,092278E+22	5,934202E+21	5,934237E+21	6,184695E+22	1,186844E+22	7,371539E+22
2205	3,092330E+22	3,092434E+22	5,934467E+21	5,933711E+21	6,184764E+22	1,186818E+22	7,371582E+22
2206	3,092453E+22	3,092497E+22	5,933603E+21	5,934180E+21	6,184950E+22	1,186778E+22	7,371729E+22
2207	3,092482E+22	3,092415E+22	5,933672E+21	5,933451E+21	6,184897E+22	1,186712E+22	7,371610E+22
2208	3,092453E+22	3,092593E+22	5,933650E+21	5,933419E+21	6,185046E+22	1,186707E+22	7,371753E+22
2209	3,092595E+22	3,092533E+22	5,933042E+21	5,933658E+21	6,185128E+22	1,186670E+22	7,371798E+22
2210	3,092569E+22	3,092509E+22	5,933552E+21	5,932917E+21	6,185078E+22	1,186647E+22	7,371725E+22
2211	3,092563E+22	3,092647E+22	5,933379E+21	5,933465E+21	6,185210E+22	1,186684E+22	7,371895E+22
2212	3,092603E+22	3,092489E+22	5,933263E+21	5,933658E+21	6,185092E+22	1,186692E+22	7,371784E+22
2213	3,092438E+22	3,092518E+22	5,934115E+21	5,933476E+21	6,184956E+22	1,186759E+22	7,371715E+22
2214	3,092438E+22	3,092516E+22	5,933843E+21	5,934428E+21	6,184954E+22	1,186827E+22	7,371781E+22
2215	3,092428E+22	3,092285E+22	5,934243E+21	5,934282E+21	6,184713E+22	1,186852E+22	7,371565E+22
2216	3,092277E+22	3,092353E+22	5,934908E+21	5,934429E+21	6,184631E+22	1,186934E+22	7,371564E+22
2217	3,092300E+22	3,092269E+22	5,934598E+21	5,935271E+21	6,184569E+22	1,186987E+22	7,371556E+22
2218	3,092215E+22	3,092145E+22	5,935308E+21	5,934868E+21	6,184360E+22	1,187018E+22	7,371377E+22
2219	3,092119E+22	3,092271E+22	5,935431E+21	5,935362E+21	6,184390E+22	1,187079E+22	7,371470E+22
2220	3,092200E+22	3,092114E+22	5,935063E+21	5,935645E+21	6,184314E+22	1,187071E+22	7,371385E+22
2221	3,092123E+22	3,092128E+22	5,935653E+21	5,934928E+21	6,184251E+22	1,187058E+22	7,371309E+22
2222	3,092170E+22	3,092248E+22	5,935102E+21	5,935373E+21	6,184418E+22	1,187048E+22	7,371465E+22
2223	3,092265E+22	3,092127E+22	5,934805E+21	5,934910E+21	6,184392E+22	1,186971E+22	7,371364E+22
2224	3,092182E+22	3,092294E+22	5,935060E+21	5,934411E+21	6,184476E+22	1,186947E+22	7,371423E+22
2225	3,092277E+22	3,092344E+22	5,934274E+21	5,934920E+21	6,184621E+22	1,186919E+22	7,371541E+22
2226	3,092338E+22	3,092254E+22	5,934389E+21	5,934102E+21	6,184592E+22	1,186849E+22	7,371441E+22
2227	3,092318E+22	3,092433E+22	5,934417E+21	5,934036E+21	6,184751E+22	1,186845E+22	7,371597E+22
2228	3,092453E+22	3,092360E+22	5,933747E+21	5,934346E+21	6,184813E+22	1,186809E+22	7,371622E+22
2229	3,092409E+22	3,092348E+22	5,934307E+21	5,933690E+21	6,184757E+22	1,186800E+22	7,371557E+22
2230	3,092353E+22	3,092487E+22	5,934202E+21	5,934345E+21	6,184839E+22	1,186855E+22	7,371694E+22
2231	3,092402E+22	3,092312E+22	5,934051E+21	5,934517E+21	6,184714E+22	1,186857E+22	7,371571E+22
2232	3,092263E+22	3,092321E+22	5,934925E+21	5,934290E+21	6,184584E+22	1,186922E+22	7,371506E+22
2233	3,092239E+22	3,092312E+22	5,934724E+21	5,935257E+21	6,184551E+22	1,186998E+22	7,371549E+22
2234	3,092247E+22	3,092094E+22	5,935154E+21	5,935091E+21	6,184341E+22	1,187025E+22	7,371365E+22
2235	3,092084E+22	3,092175E+22	5,935835E+21	5,935301E+21	6,184259E+22	1,187114E+22	7,371373E+22
2236	3,092098E+22	3,092080E+22	5,935427E+21	5,936230E+21	6,184178E+22	1,187166E+22	7,371343E+22
2237	3,092037E+22	3,091953E+22	5,936122E+21	5,935781E+21	6,183990E+22	1,187190E+22	7,371180E+22
2238	3,091941E+22	3,092078E+22	5,936236E+21	5,936179E+21	6,184019E+22	1,187241E+22	7,371261E+22
2239	3,092058E+22	3,091938E+22	5,935743E+21	5,936305E+21	6,183996E+22	1,187205E+22	7,371201E+22
2240	3,091990E+22	3,091969E+22	5,936295E+21	5,935533E+21	6,183959E+22	1,187183E+22	7,371142E+22
2241	3,091978E+22	3,092105E+22	5,935806E+21	5,936045E+21	6,184084E+22	1,187185E+22	7,371269E+22
2242	3,092082E+22	3,091994E+22	5,935516E+21	5,935585E+21	6,184076E+22	1,187110E+22	7,371186E+22
2243	3,092010E+22	3,092141E+22	5,935801E+21	5,935096E+21	6,184151E+22	1,187090E+22	7,371240E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2244	3,092128E+22	3,092164E+22	5,934939E+21	5,935610E+21	6,184292E+22	1,187055E+22	7,371347E+22
2245	3,092219E+22	3,092080E+22	5,935051E+21	5,934767E+21	6,184299E+22	1,186982E+22	7,371281E+22
2246	3,092170E+22	3,092274E+22	5,935128E+21	5,934740E+21	6,184444E+22	1,186987E+22	7,371430E+22
2247	3,092296E+22	3,092218E+22	5,934415E+21	5,935085E+21	6,184514E+22	1,186950E+22	7,371464E+22
2248	3,092236E+22	3,092199E+22	5,935027E+21	5,934505E+21	6,184435E+22	1,186953E+22	7,371389E+22
2249	3,092137E+22	3,092310E+22	5,935060E+21	5,935212E+21	6,184448E+22	1,187027E+22	7,371475E+22
2250	3,092216E+22	3,092118E+22	5,934956E+21	5,935328E+21	6,184334E+22	1,187028E+22	7,371362E+22
2251	3,092086E+22	3,092117E+22	5,935851E+21	5,935104E+21	6,184204E+22	1,187096E+22	7,371299E+22
2252	3,092055E+22	3,092095E+22	5,935575E+21	5,936142E+21	6,184150E+22	1,187172E+22	7,371322E+22
2253	3,092060E+22	3,091897E+22	5,935999E+21	5,936031E+21	6,183957E+22	1,187203E+22	7,371160E+22
2254	3,091872E+22	3,091992E+22	5,936686E+21	5,936254E+21	6,183864E+22	1,187294E+22	7,371158E+22
2255	3,091917E+22	3,091894E+22	5,936208E+21	5,937073E+21	6,183812E+22	1,187328E+22	7,371140E+22
2256	3,091885E+22	3,091775E+22	5,936871E+21	5,936501E+21	6,183661E+22	1,187337E+22	7,370998E+22
2257	3,091765E+22	3,091909E+22	5,937024E+21	5,936839E+21	6,183674E+22	1,187386E+22	7,371060E+22
2258	3,091888E+22	3,091786E+22	5,936533E+21	5,936928E+21	6,183675E+22	1,187346E+22	7,371021E+22
2259	3,091809E+22	3,091828E+22	5,937062E+21	5,936235E+21	6,183636E+22	1,187330E+22	7,370966E+22
2260	3,091789E+22	3,091937E+22	5,936489E+21	5,936832E+21	6,183726E+22	1,187332E+22	7,371058E+22
2261	3,091927E+22	3,091817E+22	5,936194E+21	5,936358E+21	6,183744E+22	1,187255E+22	7,370999E+22
2262	3,091869E+22	3,091964E+22	5,936461E+21	5,935797E+21	6,183832E+22	1,187226E+22	7,371058E+22
2263	3,092017E+22	3,092001E+22	5,935527E+21	5,936217E+21	6,184018E+22	1,187174E+22	7,371192E+22
2264	3,092101E+22	3,091943E+22	5,935648E+21	5,935375E+21	6,184043E+22	1,187102E+22	7,371146E+22
2265	3,091982E+22	3,092143E+22	5,935854E+21	5,935445E+21	6,184125E+22	1,187130E+22	7,371255E+22
2266	3,092097E+22	3,092083E+22	5,935234E+21	5,935829E+21	6,184180E+22	1,187106E+22	7,371286E+22
2267	3,092041E+22	3,092030E+22	5,935912E+21	5,935319E+21	6,184071E+22	1,187123E+22	7,371194E+22
2268	3,091948E+22	3,092096E+22	5,935907E+21	5,936058E+21	6,184044E+22	1,187196E+22	7,371241E+22
2269	3,092054E+22	3,091902E+22	5,935808E+21	5,936199E+21	6,183956E+22	1,187201E+22	7,371157E+22
2270	3,091905E+22	3,091911E+22	5,936698E+21	5,936003E+21	6,183816E+22	1,187270E+22	7,371086E+22
2271	3,091879E+22	3,091912E+22	5,936349E+21	5,937049E+21	6,183791E+22	1,187340E+22	7,371131E+22
2272	3,091884E+22	3,091725E+22	5,936765E+21	5,936919E+21	6,183609E+22	1,187368E+22	7,370978E+22
2273	3,091666E+22	3,091810E+22	5,937558E+21	5,937096E+21	6,183477E+22	1,187465E+22	7,370942E+22
2274	3,091740E+22	3,091722E+22	5,937102E+21	5,937774E+21	6,183463E+22	1,187488E+22	7,370950E+22
2275	3,091712E+22	3,091605E+22	5,937744E+21	5,937196E+21	6,183317E+22	1,187494E+22	7,370811E+22
2276	3,091570E+22	3,091726E+22	5,937815E+21	5,937583E+21	6,183296E+22	1,187540E+22	7,370836E+22
2277	3,091698E+22	3,091615E+22	5,937281E+21	5,937737E+21	6,183314E+22	1,187502E+22	7,370815E+22
2278	3,091611E+22	3,091655E+22	5,937761E+21	5,937044E+21	6,183266E+22	1,187480E+22	7,370746E+22
2279	3,091643E+22	3,091762E+22	5,937088E+21	5,937545E+21	6,183404E+22	1,187463E+22	7,370868E+22
2280	3,091816E+22	3,091658E+22	5,936747E+21	5,936967E+21	6,183475E+22	1,187371E+22	7,370846E+22
2281	3,091735E+22	3,091818E+22	5,937099E+21	5,936387E+21	6,183553E+22	1,187349E+22	7,370902E+22
2282	3,091877E+22	3,091881E+22	5,936240E+21	5,936792E+21	6,183758E+22	1,187303E+22	7,371061E+22
2283	3,091932E+22	3,091824E+22	5,936404E+21	5,936097E+21	6,183756E+22	1,187250E+22	7,371006E+22
2284	3,091784E+22	3,091976E+22	5,936629E+21	5,936271E+21	6,183760E+22	1,187290E+22	7,371050E+22
2285	3,091920E+22	3,091887E+22	5,936064E+21	5,936686E+21	6,183807E+22	1,187275E+22	7,371082E+22
2286	3,091868E+22	3,091821E+22	5,936735E+21	5,936150E+21	6,183689E+22	1,187289E+22	7,370978E+22
2287	3,091801E+22	3,091887E+22	5,936661E+21	5,936854E+21	6,183688E+22	1,187352E+22	7,371039E+22
2288	3,091894E+22	3,091722E+22	5,936555E+21	5,937014E+21	6,183616E+22	1,187357E+22	7,370973E+22
2289	3,091694E+22	3,091745E+22	5,937522E+21	5,936879E+21	6,183438E+22	1,187440E+22	7,370878E+22
2290	3,091668E+22	3,091749E+22	5,937264E+21	5,937876E+21	6,183417E+22	1,187514E+22	7,370931E+22
2291	3,091685E+22	3,091555E+22	5,937706E+21	5,937750E+21	6,183240E+22	1,187546E+22	7,370786E+22
2292	3,091470E+22	3,091607E+22	5,938449E+21	5,937895E+21	6,183077E+22	1,187634E+22	7,370712E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2293	3,091564E+22	3,091524E+22	5,937983E+21	5,938571E+21	6,183089E+22	1,187655E+22	7,370744E+22
2294	3,091517E+22	3,091421E+22	5,938548E+21	5,938014E+21	6,182938E+22	1,187656E+22	7,370594E+22
2295	3,091392E+22	3,091548E+22	5,938477E+21	5,938408E+21	6,182940E+22	1,187688E+22	7,370629E+22
2296	3,091537E+22	3,091450E+22	5,937885E+21	5,938513E+21	6,182987E+22	1,187640E+22	7,370627E+22
2297	3,091454E+22	3,091485E+22	5,938399E+21	5,937745E+21	6,182939E+22	1,187614E+22	7,370553E+22
2298	3,091523E+22	3,091614E+22	5,937768E+21	5,938090E+21	6,183137E+22	1,187586E+22	7,370723E+22
2299	3,091695E+22	3,091532E+22	5,937434E+21	5,937529E+21	6,183228E+22	1,187496E+22	7,370724E+22
2300	3,091573E+22	3,091678E+22	5,937795E+21	5,937030E+21	6,183251E+22	1,187483E+22	7,370733E+22
2301	3,091702E+22	3,091739E+22	5,936997E+21	5,937532E+21	6,183441E+22	1,187453E+22	7,370894E+22
2302	3,091733E+22	3,091659E+22	5,937183E+21	5,936899E+21	6,183392E+22	1,187408E+22	7,370800E+22
2303	3,091620E+22	3,091784E+22	5,937350E+21	5,937057E+21	6,183404E+22	1,187441E+22	7,370845E+22
2304	3,091775E+22	3,091699E+22	5,936757E+21	5,937430E+21	6,183474E+22	1,187419E+22	7,370893E+22
2305	3,091696E+22	3,091633E+22	5,937505E+21	5,936930E+21	6,183329E+22	1,187444E+22	7,370772E+22
2306	3,091626E+22	3,091725E+22	5,937506E+21	5,937628E+21	6,183351E+22	1,187513E+22	7,370864E+22
2307	3,091696E+22	3,091570E+22	5,937430E+21	5,937915E+21	6,183266E+22	1,187535E+22	7,370800E+22
2308	3,091475E+22	3,091550E+22	5,938433E+21	5,937828E+21	6,183026E+22	1,187626E+22	7,370652E+22
2309	3,091479E+22	3,091540E+22	5,938227E+21	5,938786E+21	6,183019E+22	1,187701E+22	7,370720E+22
2310	3,091494E+22	3,091346E+22	5,938617E+21	5,938596E+21	6,182840E+22	1,187721E+22	7,370562E+22
2311	3,091303E+22	3,091401E+22	5,939228E+21	5,938698E+21	6,182705E+22	1,187793E+22	7,370497E+22
2312	3,091385E+22	3,091349E+22	5,938686E+21	5,939353E+21	6,182734E+22	1,187804E+22	7,370538E+22
2313	3,091308E+22	3,091254E+22	5,939262E+21	5,938827E+21	6,182562E+22	1,187809E+22	7,370371E+22
2314	3,091215E+22	3,091389E+22	5,939220E+21	5,939108E+21	6,182603E+22	1,187833E+22	7,370436E+22
2315	3,091389E+22	3,091301E+22	5,938606E+21	5,939183E+21	6,182690E+22	1,187779E+22	7,370469E+22
2316	3,091315E+22	3,091319E+22	5,939083E+21	5,938371E+21	6,182634E+22	1,187745E+22	7,370379E+22
2317	3,091399E+22	3,091460E+22	5,938505E+21	5,938712E+21	6,182859E+22	1,187722E+22	7,370581E+22
2318	3,091534E+22	3,091401E+22	5,938141E+21	5,938204E+21	6,182935E+22	1,187634E+22	7,370569E+22
2319	3,091413E+22	3,091529E+22	5,938425E+21	5,937783E+21	6,182942E+22	1,187621E+22	7,370563E+22
2320	3,091532E+22	3,091582E+22	5,937645E+21	5,938277E+21	6,183114E+22	1,187592E+22	7,370706E+22
2321	3,091559E+22	3,091480E+22	5,937893E+21	5,937654E+21	6,183039E+22	1,187555E+22	7,370594E+22
2322	3,091472E+22	3,091603E+22	5,938125E+21	5,937725E+21	6,183076E+22	1,187585E+22	7,370661E+22
2323	3,091618E+22	3,091538E+22	5,937559E+21	5,938183E+21	6,183156E+22	1,187574E+22	7,370730E+22
2324	3,091501E+22	3,091454E+22	5,938318E+21	5,937780E+21	6,182955E+22	1,187610E+22	7,370565E+22
2325	3,091427E+22	3,091543E+22	5,938410E+21	5,938546E+21	6,182971E+22	1,187696E+22	7,370666E+22
2326	3,091481E+22	3,091382E+22	5,938349E+21	5,938835E+21	6,182863E+22	1,187718E+22	7,370582E+22
2327	3,091299E+22	3,091338E+22	5,939270E+21	5,938709E+21	6,182637E+22	1,187798E+22	7,370435E+22
2328	3,091311E+22	3,091343E+22	5,939032E+21	5,939572E+21	6,182655E+22	1,187860E+22	7,370515E+22
2329	3,091305E+22	3,091156E+22	5,939442E+21	5,939408E+21	6,182460E+22	1,187885E+22	7,370345E+22
2330	3,091115E+22	3,091234E+22	5,940050E+21	5,939469E+21	6,182350E+22	1,187952E+22	7,370301E+22
2331	3,091189E+22	3,091196E+22	5,939473E+21	5,940192E+21	6,182386E+22	1,187967E+22	7,370352E+22
2332	3,091114E+22	3,091066E+22	5,940028E+21	5,939647E+21	6,182181E+22	1,187967E+22	7,370148E+22
2333	3,091073E+22	3,091201E+22	5,940013E+21	5,939838E+21	6,182274E+22	1,187985E+22	7,370259E+22
2334	3,091248E+22	3,091136E+22	5,939348E+21	5,939824E+21	6,182384E+22	1,187917E+22	7,370301E+22
2335	3,091190E+22	3,091163E+22	5,939708E+21	5,939015E+21	6,182353E+22	1,187872E+22	7,370225E+22
2336	3,091246E+22	3,091332E+22	5,939094E+21	5,939345E+21	6,182578E+22	1,187844E+22	7,370422E+22
2337	3,091338E+22	3,091262E+22	5,938787E+21	5,938923E+21	6,182600E+22	1,187771E+22	7,370371E+22
2338	3,091238E+22	3,091378E+22	5,939140E+21	5,938448E+21	6,182616E+22	1,187759E+22	7,370375E+22
2339	3,091372E+22	3,091425E+22	5,938375E+21	5,938975E+21	6,182797E+22	1,187735E+22	7,370532E+22
2340	3,091396E+22	3,091289E+22	5,938645E+21	5,938393E+21	6,182685E+22	1,187704E+22	7,370389E+22
2341	3,091327E+22	3,091415E+22	5,938954E+21	5,938511E+21	6,182743E+22	1,187746E+22	7,370489E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2342	3,091433E+22	3,091370E+22	5,938385E+21	5,939040E+21	6,182803E+22	1,187743E+22	7,370545E+22
2343	3,091326E+22	3,091269E+22	5,939074E+21	5,938715E+21	6,182595E+22	1,187779E+22	7,370374E+22
2344	3,091248E+22	3,091356E+22	5,939199E+21	5,939411E+21	6,182605E+22	1,187861E+22	7,370465E+22
2345	3,091293E+22	3,091186E+22	5,939207E+21	5,939680E+21	6,182479E+22	1,187889E+22	7,370368E+22
2346	3,091129E+22	3,091151E+22	5,940167E+21	5,939453E+21	6,182280E+22	1,187962E+22	7,370242E+22
2347	3,091120E+22	3,091178E+22	5,939920E+21	5,940367E+21	6,182298E+22	1,188029E+22	7,370327E+22
2348	3,091080E+22	3,090970E+22	5,940307E+21	5,940286E+21	6,182050E+22	1,188059E+22	7,370109E+22
2349	3,090912E+22	3,091039E+22	5,940938E+21	5,940356E+21	6,181950E+22	1,188129E+22	7,370080E+22
2350	3,090993E+22	3,091011E+22	5,940311E+21	5,941009E+21	6,182004E+22	1,188132E+22	7,370136E+22
2351	3,090978E+22	3,090873E+22	5,940694E+21	5,940396E+21	6,181851E+22	1,188109E+22	7,369960E+22
2352	3,090948E+22	3,091038E+22	5,940637E+21	5,940459E+21	6,181986E+22	1,188110E+22	7,370096E+22
2353	3,091098E+22	3,090997E+22	5,939989E+21	5,940460E+21	6,182095E+22	1,188045E+22	7,370140E+22
2354	3,091033E+22	3,091042E+22	5,940361E+21	5,939637E+21	6,182074E+22	1,188000E+22	7,370074E+22
2355	3,091069E+22	3,091212E+22	5,939773E+21	5,940040E+21	6,182281E+22	1,187981E+22	7,370262E+22
2356	3,091154E+22	3,091089E+22	5,939501E+21	5,939658E+21	6,182243E+22	1,187916E+22	7,370159E+22
2357	3,091099E+22	3,091183E+22	5,939911E+21	5,939160E+21	6,182282E+22	1,187907E+22	7,370189E+22
2358	3,091223E+22	3,091247E+22	5,939139E+21	5,939671E+21	6,182470E+22	1,187881E+22	7,370351E+22
2359	3,091258E+22	3,091109E+22	5,939307E+21	5,939174E+21	6,182367E+22	1,187848E+22	7,370215E+22
2360	3,091162E+22	3,091258E+22	5,939631E+21	5,939300E+21	6,182420E+22	1,187893E+22	7,370313E+22
2361	3,091233E+22	3,091206E+22	5,939165E+21	5,939896E+21	6,182439E+22	1,187906E+22	7,370345E+22
2362	3,091142E+22	3,091099E+22	5,939936E+21	5,939509E+21	6,182241E+22	1,187944E+22	7,370186E+22
2363	3,091067E+22	3,091187E+22	5,940094E+21	5,940199E+21	6,182254E+22	1,188029E+22	7,370283E+22
2364	3,091092E+22	3,090983E+22	5,940144E+21	5,940519E+21	6,182076E+22	1,188066E+22	7,370142E+22
2365	3,090940E+22	3,090949E+22	5,941136E+21	5,940341E+21	6,181889E+22	1,188148E+22	7,370037E+22
2366	3,090897E+22	3,090991E+22	5,940832E+21	5,941291E+21	6,181888E+22	1,188212E+22	7,370100E+22
2367	3,090884E+22	3,090762E+22	5,941074E+21	5,941260E+21	6,181646E+22	1,188233E+22	7,369879E+22
2368	3,090746E+22	3,090838E+22	5,941638E+21	5,941183E+21	6,181585E+22	1,188282E+22	7,369867E+22
2369	3,090839E+22	3,090821E+22	5,941024E+21	5,941745E+21	6,181659E+22	1,188277E+22	7,369936E+22
2370	3,090848E+22	3,090722E+22	5,941388E+21	5,940991E+21	6,181570E+22	1,188238E+22	7,369808E+22
2371	3,090798E+22	3,090920E+22	5,941315E+21	5,941059E+21	6,181719E+22	1,188237E+22	7,369956E+22
2372	3,090902E+22	3,090860E+22	5,940695E+21	5,941136E+21	6,181763E+22	1,188183E+22	7,369946E+22
2373	3,090855E+22	3,090884E+22	5,941121E+21	5,940351E+21	6,181739E+22	1,188147E+22	7,369887E+22
2374	3,090886E+22	3,091047E+22	5,940523E+21	5,940719E+21	6,181932E+22	1,188124E+22	7,370056E+22
2375	3,091021E+22	3,090899E+22	5,940128E+21	5,940378E+21	6,181921E+22	1,188051E+22	7,369971E+22
2376	3,090979E+22	3,091008E+22	5,940515E+21	5,939829E+21	6,181987E+22	1,188034E+22	7,370021E+22
2377	3,091073E+22	3,091090E+22	5,939815E+21	5,940413E+21	6,182163E+22	1,188023E+22	7,370186E+22
2378	3,091097E+22	3,090974E+22	5,940016E+21	5,939933E+21	6,182072E+22	1,187995E+22	7,370067E+22
2379	3,090979E+22	3,091120E+22	5,940416E+21	5,940108E+21	6,182100E+22	1,188052E+22	7,370152E+22
2380	3,091033E+22	3,091020E+22	5,940062E+21	5,940734E+21	6,182053E+22	1,188080E+22	7,370132E+22
2381	3,090972E+22	3,090891E+22	5,940916E+21	5,940345E+21	6,181863E+22	1,188126E+22	7,369989E+22
2382	3,090867E+22	3,090993E+22	5,941068E+21	5,941023E+21	6,181860E+22	1,188209E+22	7,370069E+22
2383	3,090900E+22	3,090776E+22	5,940972E+21	5,941459E+21	6,181675E+22	1,188243E+22	7,369918E+22
2384	3,090734E+22	3,090749E+22	5,941901E+21	5,941260E+21	6,181483E+22	1,188316E+22	7,369799E+22
2385	3,090685E+22	3,090791E+22	5,941623E+21	5,942199E+21	6,181476E+22	1,188382E+22	7,369858E+22
2386	3,090714E+22	3,090579E+22	5,941835E+21	5,942023E+21	6,181293E+22	1,188386E+22	7,369679E+22
2387	3,090600E+22	3,090681E+22	5,942377E+21	5,941857E+21	6,181281E+22	1,188423E+22	7,369704E+22
2388	3,090679E+22	3,090657E+22	5,941813E+21	5,942405E+21	6,181335E+22	1,188422E+22	7,369757E+22
2389	3,090694E+22	3,090573E+22	5,942188E+21	5,941676E+21	6,181267E+22	1,188386E+22	7,369653E+22
2390	3,090602E+22	3,090788E+22	5,942078E+21	5,941757E+21	6,181390E+22	1,188383E+22	7,369773E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2391	3,090728E+22	3,090689E+22	5,941337E+21	5,941919E+21	6,181417E+22	1,188326E+22	7,369742E+22
2392	3,090709E+22	3,090702E+22	5,941722E+21	5,941048E+21	6,181411E+22	1,188277E+22	7,369688E+22
2393	3,090748E+22	3,090866E+22	5,941160E+21	5,941391E+21	6,181614E+22	1,188255E+22	7,369869E+22
2394	3,090897E+22	3,090753E+22	5,940765E+21	5,941002E+21	6,181649E+22	1,188177E+22	7,369826E+22
2395	3,090834E+22	3,090887E+22	5,941165E+21	5,940509E+21	6,181721E+22	1,188167E+22	7,369888E+22
2396	3,090879E+22	3,090941E+22	5,940595E+21	5,941187E+21	6,181820E+22	1,188178E+22	7,369999E+22
2397	3,090916E+22	3,090808E+22	5,940894E+21	5,940752E+21	6,181725E+22	1,188165E+22	7,369889E+22
2398	3,090783E+22	3,090942E+22	5,941329E+21	5,940892E+21	6,181726E+22	1,188222E+22	7,369948E+22
2399	3,090861E+22	3,090808E+22	5,940897E+21	5,941597E+21	6,181669E+22	1,188249E+22	7,369918E+22
2400	3,090802E+22	3,090686E+22	5,941720E+21	5,941194E+21	6,181488E+22	1,188291E+22	7,369779E+22
2401	3,090665E+22	3,090793E+22	5,941896E+21	5,941939E+21	6,181457E+22	1,188384E+22	7,369841E+22
2402	3,090698E+22	3,090597E+22	5,941773E+21	5,942365E+21	6,181295E+22	1,188414E+22	7,369709E+22
2403	3,090544E+22	3,090571E+22	5,942683E+21	5,942129E+21	6,181116E+22	1,188481E+22	7,369597E+22
2404	3,090499E+22	3,090587E+22	5,942491E+21	5,943007E+21	6,181086E+22	1,188550E+22	7,369636E+22
2405	3,090567E+22	3,090393E+22	5,942718E+21	5,942750E+21	6,180961E+22	1,188547E+22	7,369508E+22
2406	3,090427E+22	3,090527E+22	5,943228E+21	5,942522E+21	6,180955E+22	1,188575E+22	7,369530E+22
2407	3,090504E+22	3,090497E+22	5,942535E+21	5,943165E+21	6,181001E+22	1,188570E+22	7,369571E+22
2408	3,090508E+22	3,090418E+22	5,942839E+21	5,942422E+21	6,180927E+22	1,188526E+22	7,369453E+22
2409	3,090413E+22	3,090618E+22	5,942745E+21	5,942495E+21	6,181030E+22	1,188524E+22	7,369554E+22
2410	3,090578E+22	3,090530E+22	5,941959E+21	5,942562E+21	6,181108E+22	1,188452E+22	7,369560E+22
2411	3,090585E+22	3,090555E+22	5,942316E+21	5,941654E+21	6,181140E+22	1,188397E+22	7,369537E+22
2412	3,090608E+22	3,090708E+22	5,941868E+21	5,942037E+21	6,181316E+22	1,188390E+22	7,369707E+22
2413	3,090757E+22	3,090611E+22	5,941521E+21	5,941716E+21	6,181368E+22	1,188324E+22	7,369691E+22
2414	3,090650E+22	3,090754E+22	5,941951E+21	5,941265E+21	6,181404E+22	1,188322E+22	7,369726E+22
2415	3,090707E+22	3,090761E+22	5,941339E+21	5,942031E+21	6,181468E+22	1,188337E+22	7,369805E+22
2416	3,090756E+22	3,090610E+22	5,941646E+21	5,941549E+21	6,181366E+22	1,188320E+22	7,369685E+22
2417	3,090612E+22	3,090741E+22	5,942145E+21	5,941686E+21	6,181353E+22	1,188383E+22	7,369736E+22
2418	3,090685E+22	3,090632E+22	5,941703E+21	5,942383E+21	6,181317E+22	1,188409E+22	7,369725E+22
2419	3,090605E+22	3,090522E+22	5,942515E+21	5,942039E+21	6,181127E+22	1,188455E+22	7,369583E+22
2420	3,090437E+22	3,090598E+22	5,942801E+21	5,942843E+21	6,181035E+22	1,188564E+22	7,369599E+22
2421	3,090499E+22	3,090398E+22	5,942717E+21	5,943249E+21	6,180897E+22	1,188597E+22	7,369494E+22
2422	3,090353E+22	3,090385E+22	5,943596E+21	5,942927E+21	6,180738E+22	1,188652E+22	7,369390E+22
2423	3,090340E+22	3,090385E+22	5,943311E+21	5,943825E+21	6,180725E+22	1,188714E+22	7,369439E+22
2424	3,090410E+22	3,090219E+22	5,943476E+21	5,943521E+21	6,180629E+22	1,188700E+22	7,369328E+22
2425	3,090240E+22	3,090368E+22	5,943965E+21	5,943318E+21	6,180608E+22	1,188728E+22	7,369336E+22
2426	3,090315E+22	3,090353E+22	5,943215E+21	5,943922E+21	6,180668E+22	1,188714E+22	7,369382E+22
2427	3,090340E+22	3,090265E+22	5,943474E+21	5,943134E+21	6,180605E+22	1,188661E+22	7,369266E+22
2428	3,090255E+22	3,090428E+22	5,943467E+21	5,943162E+21	6,180683E+22	1,188663E+22	7,369346E+22
2429	3,090456E+22	3,090365E+22	5,942694E+21	5,943188E+21	6,180821E+22	1,188588E+22	7,369409E+22
2430	3,090443E+22	3,090419E+22	5,943017E+21	5,942273E+21	6,180861E+22	1,188529E+22	7,369390E+22
2431	3,090455E+22	3,090554E+22	5,942521E+21	5,942783E+21	6,181008E+22	1,188530E+22	7,369539E+22
2432	3,090591E+22	3,090462E+22	5,942169E+21	5,942465E+21	6,181053E+22	1,188463E+22	7,369516E+22
2433	3,090471E+22	3,090582E+22	5,942677E+21	5,942022E+21	6,181053E+22	1,188470E+22	7,369523E+22
2434	3,090544E+22	3,090595E+22	5,942086E+21	5,942727E+21	6,181139E+22	1,188481E+22	7,369620E+22
2435	3,090600E+22	3,090445E+22	5,942405E+21	5,942271E+21	6,181045E+22	1,188468E+22	7,369513E+22
2436	3,090422E+22	3,090550E+22	5,943039E+21	5,942498E+21	6,180972E+22	1,188554E+22	7,369525E+22
2437	3,090487E+22	3,090456E+22	5,942630E+21	5,943279E+21	6,180943E+22	1,188591E+22	7,369534E+22
2438	3,090382E+22	3,090344E+22	5,943426E+21	5,942967E+21	6,180726E+22	1,188639E+22	7,369366E+22
2439	3,090246E+22	3,090373E+22	5,943662E+21	5,943813E+21	6,180619E+22	1,188748E+22	7,369366E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2440	3,090336E+22	3,090184E+22	5,943538E+21	5,944113E+21	6,180521E+22	1,188765E+22	7,369286E+22
2441	3,090188E+22	3,090189E+22	5,944419E+21	5,943741E+21	6,180377E+22	1,188816E+22	7,369193E+22
2442	3,090170E+22	3,090229E+22	5,944086E+21	5,944572E+21	6,180400E+22	1,188866E+22	7,369265E+22
2443	3,090222E+22	3,090081E+22	5,944192E+21	5,944270E+21	6,180303E+22	1,188846E+22	7,369149E+22
2444	3,090030E+22	3,090197E+22	5,944758E+21	5,944081E+21	6,180228E+22	1,188884E+22	7,369112E+22
2445	3,090137E+22	3,090181E+22	5,944006E+21	5,944623E+21	6,180317E+22	1,188863E+22	7,369180E+22
2446	3,090177E+22	3,090101E+22	5,944208E+21	5,943773E+21	6,180278E+22	1,188798E+22	7,369076E+22
2447	3,090131E+22	3,090242E+22	5,944116E+21	5,943843E+21	6,180373E+22	1,188796E+22	7,369169E+22
2448	3,090332E+22	3,090207E+22	5,943307E+21	5,943860E+21	6,180539E+22	1,188717E+22	7,369256E+22
2449	3,090289E+22	3,090279E+22	5,943638E+21	5,943002E+21	6,180568E+22	1,188664E+22	7,369232E+22
2450	3,090294E+22	3,090423E+22	5,943154E+21	5,943486E+21	6,180717E+22	1,188664E+22	7,369381E+22
2451	3,090434E+22	3,090317E+22	5,942833E+21	5,943147E+21	6,180751E+22	1,188598E+22	7,369349E+22
2452	3,090304E+22	3,090396E+22	5,943500E+21	5,942726E+21	6,180701E+22	1,188623E+22	7,369323E+22
2453	3,090378E+22	3,090422E+22	5,942976E+21	5,943446E+21	6,180800E+22	1,188642E+22	7,369442E+22
2454	3,090401E+22	3,090283E+22	5,943295E+21	5,943085E+21	6,180684E+22	1,188638E+22	7,369322E+22
2455	3,090218E+22	3,090344E+22	5,943879E+21	5,943469E+21	6,180562E+22	1,188735E+22	7,369297E+22
2456	3,090285E+22	3,090249E+22	5,943456E+21	5,944249E+21	6,180534E+22	1,188771E+22	7,369304E+22
2457	3,090190E+22	3,090130E+22	5,944252E+21	5,943900E+21	6,180320E+22	1,188815E+22	7,369135E+22
2458	3,090082E+22	3,090181E+22	5,944464E+21	5,944626E+21	6,180263E+22	1,188909E+22	7,369171E+22
2459	3,090183E+22	3,090018E+22	5,944325E+21	5,944869E+21	6,180201E+22	1,188919E+22	7,369120E+22
2460	3,090003E+22	3,090012E+22	5,945309E+21	5,944532E+21	6,180015E+22	1,188984E+22	7,368999E+22
2461	3,089970E+22	3,090080E+22	5,944977E+21	5,945360E+21	6,180049E+22	1,189034E+22	7,369083E+22
2462	3,090010E+22	3,089925E+22	5,945019E+21	5,945062E+21	6,179935E+22	1,189008E+22	7,368943E+22
2463	3,089855E+22	3,089981E+22	5,945496E+21	5,944884E+21	6,179836E+22	1,189038E+22	7,368874E+22
2464	3,089998E+22	3,089985E+22	5,944673E+21	5,945316E+21	6,179983E+22	1,188999E+22	7,368982E+22
2465	3,090043E+22	3,089930E+22	5,944832E+21	5,944436E+21	6,179973E+22	1,188927E+22	7,368900E+22
2466	3,089998E+22	3,090111E+22	5,944705E+21	5,944473E+21	6,180109E+22	1,188918E+22	7,369026E+22
2467	3,090180E+22	3,090098E+22	5,943888E+21	5,944491E+21	6,180279E+22	1,188838E+22	7,369116E+22
2468	3,090111E+22	3,090133E+22	5,944363E+21	5,943683E+21	6,180244E+22	1,188805E+22	7,369048E+22
2469	3,090126E+22	3,090276E+22	5,943954E+21	5,944122E+21	6,180402E+22	1,188808E+22	7,369210E+22
2470	3,090263E+22	3,090163E+22	5,943642E+21	5,943824E+21	6,180426E+22	1,188747E+22	7,369173E+22
2471	3,090146E+22	3,090193E+22	5,944296E+21	5,943540E+21	6,180340E+22	1,188784E+22	7,369123E+22
2472	3,090207E+22	3,090234E+22	5,943760E+21	5,944317E+21	6,180441E+22	1,188808E+22	7,369249E+22
2473	3,090203E+22	3,090098E+22	5,944071E+21	5,944047E+21	6,180300E+22	1,188812E+22	7,369112E+22
2474	3,090035E+22	3,090154E+22	5,944639E+21	5,944390E+21	6,180189E+22	1,188903E+22	7,369092E+22
2475	3,090121E+22	3,090058E+22	5,944234E+21	5,945076E+21	6,180179E+22	1,188931E+22	7,369110E+22
2476	3,090024E+22	3,089928E+22	5,945151E+21	5,944697E+21	6,179952E+22	1,188985E+22	7,368937E+22
2477	3,089912E+22	3,090013E+22	5,945409E+21	5,945363E+21	6,179925E+22	1,189077E+22	7,369002E+22
2478	3,089972E+22	3,089870E+22	5,945258E+21	5,945664E+21	6,179842E+22	1,189092E+22	7,368935E+22
2479	3,089786E+22	3,089820E+22	5,946160E+21	5,945431E+21	6,179606E+22	1,189159E+22	7,368765E+22
2480	3,089761E+22	3,089880E+22	5,945773E+21	5,946200E+21	6,179641E+22	1,189197E+22	7,368839E+22
2481	3,089822E+22	3,089724E+22	5,945750E+21	5,945854E+21	6,179545E+22	1,189160E+22	7,368706E+22
2482	3,089716E+22	3,089799E+22	5,946124E+21	5,945565E+21	6,179515E+22	1,189169E+22	7,368684E+22
2483	3,089877E+22	3,089836E+22	5,945269E+21	5,945928E+21	6,179713E+22	1,189120E+22	7,368833E+22
2484	3,089897E+22	3,089791E+22	5,945506E+21	5,945099E+21	6,179688E+22	1,189060E+22	7,368749E+22
2485	3,089836E+22	3,089999E+22	5,945415E+21	5,945124E+21	6,179835E+22	1,189054E+22	7,368889E+22
2486	3,090002E+22	3,089975E+22	5,944626E+21	5,945170E+21	6,179977E+22	1,188980E+22	7,368957E+22
2487	3,089957E+22	3,089940E+22	5,945089E+21	5,944431E+21	6,179897E+22	1,188952E+22	7,368848E+22
2488	3,089982E+22	3,090087E+22	5,944685E+21	5,944829E+21	6,180069E+22	1,188951E+22	7,369021E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2489	3,090101E+22	3,089984E+22	5,944370E+21	5,944605E+21	6,180085E+22	1,188898E+22	7,368983E+22
2490	3,089980E+22	3,090024E+22	5,944989E+21	5,944360E+21	6,180004E+22	1,188935E+22	7,368939E+22
2491	3,090029E+22	3,090073E+22	5,944468E+21	5,945139E+21	6,180102E+22	1,188961E+22	7,369062E+22
2492	3,090010E+22	3,089905E+22	5,944911E+21	5,944899E+21	6,179915E+22	1,188981E+22	7,368896E+22
2493	3,089857E+22	3,089978E+22	5,945544E+21	5,945152E+21	6,179835E+22	1,189070E+22	7,368904E+22
2494	3,089942E+22	3,089891E+22	5,945167E+21	5,945845E+21	6,179833E+22	1,189101E+22	7,368934E+22
2495	3,089843E+22	3,089720E+22	5,946075E+21	5,945577E+21	6,179564E+22	1,189165E+22	7,368729E+22
2496	3,089711E+22	3,089830E+22	5,946304E+21	5,946248E+21	6,179541E+22	1,189255E+22	7,368796E+22
2497	3,089747E+22	3,089687E+22	5,946096E+21	5,946607E+21	6,179434E+22	1,189270E+22	7,368704E+22
2498	3,089590E+22	3,089621E+22	5,946903E+21	5,946305E+21	6,179210E+22	1,189321E+22	7,368531E+22
2499	3,089602E+22	3,089687E+22	5,946457E+21	5,946920E+21	6,179288E+22	1,189338E+22	7,368626E+22
2500	3,089673E+22	3,089534E+22	5,946477E+21	5,946535E+21	6,179207E+22	1,189301E+22	7,368509E+22
2501	3,089577E+22	3,089661E+22	5,946848E+21	5,946170E+21	6,179238E+22	1,189302E+22	7,368540E+22
2502	3,089713E+22	3,089725E+22	5,945992E+21	5,946580E+21	6,179438E+22	1,189257E+22	7,368695E+22
2503	3,089728E+22	3,089637E+22	5,946193E+21	5,945847E+21	6,179365E+22	1,189204E+22	7,368568E+22
2504	3,089674E+22	3,089838E+22	5,946103E+21	5,945805E+21	6,179512E+22	1,189191E+22	7,368703E+22
2505	3,089840E+22	3,089807E+22	5,945305E+21	5,945849E+21	6,179648E+22	1,189115E+22	7,368763E+22
2506	3,089824E+22	3,089769E+22	5,945720E+21	5,945107E+21	6,179593E+22	1,189083E+22	7,368675E+22
2507	3,089845E+22	3,089929E+22	5,945341E+21	5,945493E+21	6,179774E+22	1,189083E+22	7,368857E+22
2508	3,089928E+22	3,089825E+22	5,945132E+21	5,945402E+21	6,179754E+22	1,189053E+22	7,368807E+22
2509	3,089796E+22	3,089877E+22	5,945785E+21	5,945161E+21	6,179673E+22	1,189095E+22	7,368768E+22
2510	3,089837E+22	3,089905E+22	5,945342E+21	5,945969E+21	6,179742E+22	1,189131E+22	7,368873E+22
2511	3,089838E+22	3,089686E+22	5,945783E+21	5,945770E+21	6,179524E+22	1,189155E+22	7,368680E+22
2512	3,089691E+22	3,089773E+22	5,946434E+21	5,945967E+21	6,179464E+22	1,189240E+22	7,368704E+22
2513	3,089743E+22	3,089706E+22	5,946071E+21	5,946720E+21	6,179449E+22	1,189279E+22	7,368728E+22
2514	3,089638E+22	3,089541E+22	5,946898E+21	5,946499E+21	6,179179E+22	1,189340E+22	7,368519E+22
2515	3,089498E+22	3,089649E+22	5,947090E+21	5,947103E+21	6,179147E+22	1,189419E+22	7,368566E+22
2516	3,089536E+22	3,089482E+22	5,946934E+21	5,947458E+21	6,179018E+22	1,189439E+22	7,368458E+22
2517	3,089414E+22	3,089437E+22	5,947697E+21	5,947018E+21	6,178852E+22	1,189471E+22	7,368323E+22
2518	3,089448E+22	3,089522E+22	5,947246E+21	5,947604E+21	6,178969E+22	1,189485E+22	7,368454E+22
2519	3,089529E+22	3,089356E+22	5,947211E+21	5,947284E+21	6,178885E+22	1,189450E+22	7,368334E+22
2520	3,089427E+22	3,089517E+22	5,947540E+21	5,946895E+21	6,178943E+22	1,189443E+22	7,368387E+22
2521	3,089539E+22	3,089586E+22	5,946672E+21	5,947323E+21	6,179125E+22	1,189399E+22	7,368525E+22
2522	3,089578E+22	3,089477E+22	5,946801E+21	5,946549E+21	6,179056E+22	1,189335E+22	7,368391E+22
2523	3,089543E+22	3,089679E+22	5,946706E+21	5,946376E+21	6,179222E+22	1,189308E+22	7,368530E+22
2524	3,089695E+22	3,089643E+22	5,946005E+21	5,946472E+21	6,179338E+22	1,189248E+22	7,368586E+22
2525	3,089664E+22	3,089635E+22	5,946455E+21	5,945745E+21	6,179299E+22	1,189220E+22	7,368519E+22
2526	3,089661E+22	3,089797E+22	5,946122E+21	5,946242E+21	6,179458E+22	1,189236E+22	7,368694E+22
2527	3,089734E+22	3,089636E+22	5,945924E+21	5,946281E+21	6,179370E+22	1,189220E+22	7,368590E+22
2528	3,089619E+22	3,089683E+22	5,946594E+21	5,945990E+21	6,179302E+22	1,189258E+22	7,368560E+22
2529	3,089659E+22	3,089712E+22	5,946179E+21	5,946792E+21	6,179371E+22	1,189297E+22	7,368668E+22
2530	3,089680E+22	3,089493E+22	5,946577E+21	5,946612E+21	6,179174E+22	1,189319E+22	7,368493E+22
2531	3,089520E+22	3,089599E+22	5,947241E+21	5,946765E+21	6,179119E+22	1,189401E+22	7,368519E+22
2532	3,089529E+22	3,089531E+22	5,946959E+21	5,947627E+21	6,179059E+22	1,189459E+22	7,368518E+22
2533	3,089420E+22	3,089372E+22	5,947783E+21	5,947371E+21	6,178792E+22	1,189515E+22	7,368307E+22
2534	3,089296E+22	3,089456E+22	5,947982E+21	5,947946E+21	6,178753E+22	1,189593E+22	7,368345E+22
2535	3,089364E+22	3,089253E+22	5,947768E+21	5,948293E+21	6,178617E+22	1,189606E+22	7,368223E+22
2536	3,089270E+22	3,089242E+22	5,948465E+21	5,947760E+21	6,178513E+22	1,189622E+22	7,368135E+22
2537	3,089283E+22	3,089363E+22	5,948001E+21	5,948351E+21	6,178646E+22	1,189635E+22	7,368281E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2538	3,089369E+22	3,089215E+22	5,947851E+21	5,948038E+21	6,178584E+22	1,189589E+22	7,368173E+22
2539	3,089266E+22	3,089377E+22	5,948158E+21	5,947531E+21	6,178643E+22	1,189569E+22	7,368212E+22
2540	3,089368E+22	3,089434E+22	5,947375E+21	5,947953E+21	6,178802E+22	1,189533E+22	7,368335E+22
2541	3,089426E+22	3,089340E+22	5,947486E+21	5,947106E+21	6,178766E+22	1,189459E+22	7,368225E+22
2542	3,089392E+22	3,089532E+22	5,947443E+21	5,946995E+21	6,178924E+22	1,189444E+22	7,368368E+22
2543	3,089531E+22	3,089470E+22	5,946741E+21	5,947238E+21	6,179001E+22	1,189398E+22	7,368399E+22
2544	3,089497E+22	3,089473E+22	5,947165E+21	5,946564E+21	6,178970E+22	1,189373E+22	7,368343E+22
2545	3,089476E+22	3,089623E+22	5,946882E+21	5,947104E+21	6,179099E+22	1,189399E+22	7,368498E+22
2546	3,089581E+22	3,089442E+22	5,946623E+21	5,947124E+21	6,179023E+22	1,189375E+22	7,368398E+22
2547	3,089481E+22	3,089495E+22	5,947308E+21	5,946702E+21	6,178976E+22	1,189401E+22	7,368377E+22
2548	3,089492E+22	3,089533E+22	5,947029E+21	5,947558E+21	6,179025E+22	1,189459E+22	7,368484E+22
2549	3,089485E+22	3,089347E+22	5,947462E+21	5,947401E+21	6,178832E+22	1,189486E+22	7,368319E+22
2550	3,089299E+22	3,089440E+22	5,948177E+21	5,947646E+21	6,178740E+22	1,189582E+22	7,368322E+22
2551	3,089298E+22	3,089316E+22	5,947891E+21	5,948581E+21	6,178614E+22	1,189647E+22	7,368262E+22
2552	3,089222E+22	3,089153E+22	5,948661E+21	5,948247E+21	6,178375E+22	1,189691E+22	7,368066E+22
2553	3,089116E+22	3,089245E+22	5,948831E+21	5,948766E+21	6,178361E+22	1,189760E+22	7,368121E+22
2554	3,089219E+22	3,089059E+22	5,948500E+21	5,949097E+21	6,178277E+22	1,189760E+22	7,368037E+22
2555	3,089128E+22	3,089091E+22	5,949132E+21	5,948467E+21	6,178219E+22	1,189760E+22	7,367979E+22
2556	3,089108E+22	3,089225E+22	5,948729E+21	5,949104E+21	6,178334E+22	1,189783E+22	7,368117E+22
2557	3,089186E+22	3,089093E+22	5,948569E+21	5,948707E+21	6,178279E+22	1,189728E+22	7,368006E+22
2558	3,089103E+22	3,089230E+22	5,948891E+21	5,948161E+21	6,178333E+22	1,189705E+22	7,368038E+22
2559	3,089210E+22	3,089245E+22	5,948096E+21	5,948601E+21	6,178455E+22	1,189670E+22	7,368124E+22
2560	3,089282E+22	3,089171E+22	5,948181E+21	5,947765E+21	6,178453E+22	1,189595E+22	7,368047E+22
2561	3,089225E+22	3,089375E+22	5,948151E+21	5,947734E+21	6,178600E+22	1,189588E+22	7,368188E+22
2562	3,089369E+22	3,089309E+22	5,947362E+21	5,948059E+21	6,178678E+22	1,189542E+22	7,368220E+22
2563	3,089346E+22	3,089309E+22	5,947771E+21	5,947287E+21	6,178655E+22	1,189506E+22	7,368161E+22
2564	3,089317E+22	3,089448E+22	5,947616E+21	5,947827E+21	6,178766E+22	1,189544E+22	7,368310E+22
2565	3,089426E+22	3,089294E+22	5,947405E+21	5,947787E+21	6,178720E+22	1,189519E+22	7,368239E+22
2566	3,089319E+22	3,089339E+22	5,948192E+21	5,947444E+21	6,178658E+22	1,189564E+22	7,368221E+22
2567	3,089288E+22	3,089350E+22	5,947966E+21	5,948440E+21	6,178638E+22	1,189641E+22	7,368279E+22
2568	3,089272E+22	3,089164E+22	5,948382E+21	5,948361E+21	6,178436E+22	1,189674E+22	7,368111E+22
2569	3,089074E+22	3,089229E+22	5,949115E+21	5,948624E+21	6,178303E+22	1,189774E+22	7,368077E+22
2570	3,089116E+22	3,089085E+22	5,948704E+21	5,949521E+21	6,178201E+22	1,189822E+22	7,368024E+22
2571	3,089073E+22	3,088940E+22	5,949390E+21	5,949018E+21	6,178013E+22	1,189841E+22	7,367854E+22
2572	3,088952E+22	3,089062E+22	5,949635E+21	5,949545E+21	6,178014E+22	1,189918E+22	7,367932E+22
2573	3,089039E+22	3,088932E+22	5,949273E+21	5,949819E+21	6,177971E+22	1,189909E+22	7,367880E+22
2574	3,088939E+22	3,088958E+22	5,949920E+21	5,949216E+21	6,177897E+22	1,189914E+22	7,367811E+22
2575	3,088909E+22	3,089051E+22	5,949527E+21	5,949844E+21	6,177960E+22	1,189937E+22	7,367897E+22
2576	3,089020E+22	3,088919E+22	5,949301E+21	5,949379E+21	6,177939E+22	1,189868E+22	7,367807E+22
2577	3,088945E+22	3,089051E+22	5,949610E+21	5,948817E+21	6,177996E+22	1,189843E+22	7,367838E+22
2578	3,089076E+22	3,089071E+22	5,948702E+21	5,949304E+21	6,178146E+22	1,189801E+22	7,367947E+22
2579	3,089149E+22	3,089023E+22	5,948724E+21	5,948438E+21	6,178171E+22	1,189716E+22	7,367888E+22
2580	3,089066E+22	3,089230E+22	5,948794E+21	5,948494E+21	6,178296E+22	1,189729E+22	7,368024E+22
2581	3,089210E+22	3,089175E+22	5,948047E+21	5,948748E+21	6,178385E+22	1,189679E+22	7,368064E+22
2582	3,089206E+22	3,089154E+22	5,948525E+21	5,947967E+21	6,178360E+22	1,189649E+22	7,368009E+22
2583	3,089159E+22	3,089263E+22	5,948453E+21	5,948537E+21	6,178422E+22	1,189699E+22	7,368121E+22
2584	3,089256E+22	3,089127E+22	5,948278E+21	5,948562E+21	6,178383E+22	1,189684E+22	7,368067E+22
2585	3,089108E+22	3,089167E+22	5,949120E+21	5,948336E+21	6,178275E+22	1,189746E+22	7,368020E+22
2586	3,089073E+22	3,089152E+22	5,948811E+21	5,949419E+21	6,178225E+22	1,189823E+22	7,368048E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2587	3,089075E+22	3,088957E+22	5,949175E+21	5,949251E+21	6,178032E+22	1,189843E+22	7,367874E+22
2588	3,088887E+22	3,089010E+22	5,949947E+21	5,949496E+21	6,177898E+22	1,189944E+22	7,367842E+22
2589	3,088943E+22	3,088902E+22	5,949527E+21	5,950284E+21	6,177845E+22	1,189981E+22	7,367827E+22
2590	3,088915E+22	3,088775E+22	5,950222E+21	5,949794E+21	6,177690E+22	1,190002E+22	7,367691E+22
2591	3,088761E+22	3,088890E+22	5,950484E+21	5,950369E+21	6,177652E+22	1,190085E+22	7,367737E+22
2592	3,088848E+22	3,088778E+22	5,950098E+21	5,950638E+21	6,177626E+22	1,190074E+22	7,367700E+22
2593	3,088748E+22	3,088782E+22	5,950734E+21	5,949992E+21	6,177531E+22	1,190073E+22	7,367603E+22
2594	3,088755E+22	3,088855E+22	5,950199E+21	5,950556E+21	6,177610E+22	1,190075E+22	7,367685E+22
2595	3,088891E+22	3,088744E+22	5,949878E+21	5,949972E+21	6,177635E+22	1,189985E+22	7,367620E+22
2596	3,088799E+22	3,088892E+22	5,950239E+21	5,949479E+21	6,177691E+22	1,189972E+22	7,367663E+22
2597	3,088913E+22	3,088955E+22	5,949335E+21	5,949949E+21	6,177869E+22	1,189928E+22	7,367797E+22
2598	3,088991E+22	3,088897E+22	5,949392E+21	5,949136E+21	6,177888E+22	1,189853E+22	7,367741E+22
2599	3,088896E+22	3,089062E+22	5,949538E+21	5,949200E+21	6,177959E+22	1,189874E+22	7,367833E+22
2600	3,089062E+22	3,089013E+22	5,948816E+21	5,949426E+21	6,178075E+22	1,189824E+22	7,367899E+22
2601	3,089047E+22	3,088981E+22	5,949361E+21	5,948697E+21	6,178028E+22	1,189806E+22	7,367834E+22
2602	3,088996E+22	3,089084E+22	5,949235E+21	5,949361E+21	6,178081E+22	1,189860E+22	7,367940E+22
2603	3,089077E+22	3,088958E+22	5,949021E+21	5,949422E+21	6,178035E+22	1,189844E+22	7,367880E+22
2604	3,088898E+22	3,088976E+22	5,949953E+21	5,949304E+21	6,177874E+22	1,189926E+22	7,367799E+22
2605	3,088870E+22	3,088965E+22	5,949647E+21	5,950284E+21	6,177835E+22	1,189993E+22	7,367828E+22
2606	3,088905E+22	3,088750E+22	5,950019E+21	5,950080E+21	6,177655E+22	1,190010E+22	7,367665E+22
2607	3,088710E+22	3,088794E+22	5,950831E+21	5,950308E+21	6,177504E+22	1,190114E+22	7,367618E+22
2608	3,088769E+22	3,088726E+22	5,950419E+21	5,951101E+21	6,177495E+22	1,190152E+22	7,367647E+22
2609	3,088711E+22	3,088612E+22	5,951118E+21	5,950654E+21	6,177322E+22	1,190177E+22	7,367500E+22
2610	3,088567E+22	3,088712E+22	5,951263E+21	5,951221E+21	6,177278E+22	1,190248E+22	7,367527E+22
2611	3,088675E+22	3,088600E+22	5,950788E+21	5,951350E+21	6,177274E+22	1,190214E+22	7,367488E+22
2612	3,088582E+22	3,088600E+22	5,951431E+21	5,950686E+21	6,177183E+22	1,190212E+22	7,367394E+22
2613	3,088600E+22	3,088706E+22	5,950866E+21	5,951143E+21	6,177306E+22	1,190201E+22	7,367507E+22
2614	3,088751E+22	3,088606E+22	5,950542E+21	5,950621E+21	6,177357E+22	1,190116E+22	7,367473E+22
2615	3,088632E+22	3,088743E+22	5,950925E+21	5,950209E+21	6,177375E+22	1,190113E+22	7,367489E+22
2616	3,088754E+22	3,088814E+22	5,950054E+21	5,950692E+21	6,177567E+22	1,190075E+22	7,367642E+22
2617	3,088835E+22	3,088736E+22	5,950138E+21	5,949861E+21	6,177571E+22	1,190000E+22	7,367571E+22
2618	3,088768E+22	3,088876E+22	5,950204E+21	5,949896E+21	6,177645E+22	1,190010E+22	7,367655E+22
2619	3,088933E+22	3,088849E+22	5,949471E+21	5,950070E+21	6,177782E+22	1,189954E+22	7,367736E+22
2620	3,088878E+22	3,088821E+22	5,950107E+21	5,949486E+21	6,177700E+22	1,189959E+22	7,367659E+22
2621	3,088789E+22	3,088941E+22	5,950023E+21	5,950154E+21	6,177730E+22	1,190018E+22	7,367748E+22
2622	3,088876E+22	3,088789E+22	5,949853E+21	5,950286E+21	6,177665E+22	1,190014E+22	7,367679E+22
2623	3,088692E+22	3,088758E+22	5,950834E+21	5,950168E+21	6,177450E+22	1,190100E+22	7,367550E+22
2624	3,088695E+22	3,088755E+22	5,950551E+21	5,951104E+21	6,177449E+22	1,190165E+22	7,367615E+22
2625	3,088729E+22	3,088550E+22	5,950941E+21	5,950915E+21	6,177280E+22	1,190186E+22	7,367465E+22
2626	3,088540E+22	3,088600E+22	5,951648E+21	5,951193E+21	6,177141E+22	1,190284E+22	7,367425E+22
2627	3,088588E+22	3,088563E+22	5,951189E+21	5,951956E+21	6,177151E+22	1,190315E+22	7,367466E+22
2628	3,088508E+22	3,088439E+22	5,951926E+21	5,951555E+21	6,176947E+22	1,190348E+22	7,367296E+22
2629	3,088375E+22	3,088546E+22	5,952041E+21	5,951945E+21	6,176921E+22	1,190399E+22	7,367320E+22
2630	3,088520E+22	3,088426E+22	5,951528E+21	5,952019E+21	6,176945E+22	1,190355E+22	7,367300E+22
2631	3,088415E+22	3,088416E+22	5,952175E+21	5,951359E+21	6,176831E+22	1,190353E+22	7,367184E+22
2632	3,088440E+22	3,088554E+22	5,951607E+21	5,951834E+21	6,176994E+22	1,190344E+22	7,367338E+22
2633	3,088572E+22	3,088462E+22	5,951278E+21	5,951373E+21	6,177035E+22	1,190265E+22	7,367300E+22
2634	3,088479E+22	3,088578E+22	5,951546E+21	5,950970E+21	6,177057E+22	1,190252E+22	7,367309E+22
2635	3,088625E+22	3,088653E+22	5,950639E+21	5,951330E+21	6,177278E+22	1,190197E+22	7,367475E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2636	3,088699E+22	3,088572E+22	5,950780E+21	5,950529E+21	6,177271E+22	1,190131E+22	7,367402E+22
2637	3,088623E+22	3,088740E+22	5,950881E+21	5,950482E+21	6,177363E+22	1,190136E+22	7,367500E+22
2638	3,088775E+22	3,088712E+22	5,950206E+21	5,950770E+21	6,177487E+22	1,190098E+22	7,367585E+22
2639	3,088673E+22	3,088655E+22	5,950932E+21	5,950328E+21	6,177329E+22	1,190126E+22	7,367455E+22
2640	3,088590E+22	3,088759E+22	5,950913E+21	5,951026E+21	6,177350E+22	1,190194E+22	7,367544E+22
2641	3,088681E+22	3,088581E+22	5,950772E+21	5,951165E+21	6,177262E+22	1,190194E+22	7,367456E+22
2642	3,088533E+22	3,088530E+22	5,951628E+21	5,951033E+21	6,177063E+22	1,190266E+22	7,367329E+22
2643	3,088541E+22	3,088558E+22	5,951331E+21	5,951909E+21	6,177098E+22	1,190324E+22	7,367422E+22
2644	3,088539E+22	3,088378E+22	5,951773E+21	5,951823E+21	6,176917E+22	1,190360E+22	7,367277E+22
2645	3,088330E+22	3,088454E+22	5,952480E+21	5,952023E+21	6,176783E+22	1,190450E+22	7,367233E+22
2646	3,088389E+22	3,088401E+22	5,952041E+21	5,952771E+21	6,176790E+22	1,190481E+22	7,367271E+22
2647	3,088304E+22	3,088244E+22	5,952785E+21	5,952337E+21	6,176548E+22	1,190512E+22	7,367060E+22
2648	3,088202E+22	3,088358E+22	5,952881E+21	5,952649E+21	6,176560E+22	1,190553E+22	7,367112E+22
2649	3,088350E+22	3,088250E+22	5,952339E+21	5,952743E+21	6,176600E+22	1,190508E+22	7,367108E+22
2650	3,088266E+22	3,088238E+22	5,952812E+21	5,952137E+21	6,176503E+22	1,190495E+22	7,366998E+22
2651	3,088294E+22	3,088404E+22	5,952200E+21	5,952573E+21	6,176698E+22	1,190477E+22	7,367175E+22
2652	3,088420E+22	3,088312E+22	5,951888E+21	5,952130E+21	6,176732E+22	1,190402E+22	7,367134E+22
2653	3,088343E+22	3,088433E+22	5,952149E+21	5,951546E+21	6,176776E+22	1,190369E+22	7,367146E+22
2654	3,088507E+22	3,088512E+22	5,951288E+21	5,951864E+21	6,177019E+22	1,190315E+22	7,367334E+22
2655	3,088540E+22	3,088422E+22	5,951514E+21	5,951154E+21	6,176961E+22	1,190267E+22	7,367228E+22
2656	3,088442E+22	3,088599E+22	5,951701E+21	5,951192E+21	6,177041E+22	1,190289E+22	7,367331E+22
2657	3,088562E+22	3,088557E+22	5,951079E+21	5,951603E+21	6,177118E+22	1,190268E+22	7,367386E+22
2658	3,088481E+22	3,088450E+22	5,951703E+21	5,951230E+21	6,176931E+22	1,190293E+22	7,367224E+22
2659	3,088426E+22	3,088549E+22	5,951671E+21	5,951849E+21	6,176976E+22	1,190352E+22	7,367328E+22
2660	3,088515E+22	3,088376E+22	5,951562E+21	5,952041E+21	6,176891E+22	1,190360E+22	7,367251E+22
2661	3,088367E+22	3,088357E+22	5,952420E+21	5,951826E+21	6,176724E+22	1,190425E+22	7,367148E+22
2662	3,088368E+22	3,088402E+22	5,952172E+21	5,952756E+21	6,176770E+22	1,190493E+22	7,367263E+22
2663	3,088319E+22	3,088208E+22	5,952686E+21	5,952750E+21	6,176527E+22	1,190544E+22	7,367071E+22
2664	3,088123E+22	3,088271E+22	5,953433E+21	5,952890E+21	6,176394E+22	1,190632E+22	7,367027E+22
2665	3,088191E+22	3,088199E+22	5,952983E+21	5,953580E+21	6,176389E+22	1,190656E+22	7,367046E+22
2666	3,088142E+22	3,088026E+22	5,953541E+21	5,953125E+21	6,176167E+22	1,190667E+22	7,366834E+22
2667	3,088054E+22	3,088169E+22	5,953560E+21	5,953369E+21	6,176223E+22	1,190693E+22	7,366916E+22
2668	3,088174E+22	3,088088E+22	5,953006E+21	5,953545E+21	6,176262E+22	1,190655E+22	7,366917E+22
2669	3,088097E+22	3,088105E+22	5,953416E+21	5,952821E+21	6,176203E+22	1,190624E+22	7,366826E+22
2670	3,088154E+22	3,088265E+22	5,952834E+21	5,953190E+21	6,176418E+22	1,190602E+22	7,367021E+22
2671	3,088266E+22	3,088161E+22	5,952578E+21	5,952718E+21	6,176427E+22	1,190530E+22	7,366956E+22
2672	3,088206E+22	3,088291E+22	5,952894E+21	5,952094E+21	6,176497E+22	1,190499E+22	7,366996E+22
2673	3,088343E+22	3,088372E+22	5,952092E+21	5,952496E+21	6,176715E+22	1,190459E+22	7,367174E+22
2674	3,088370E+22	3,088259E+22	5,952209E+21	5,951959E+21	6,176629E+22	1,190417E+22	7,367046E+22
2675	3,088267E+22	3,088428E+22	5,952406E+21	5,952043E+21	6,176695E+22	1,190445E+22	7,367140E+22
2676	3,088375E+22	3,088365E+22	5,951831E+21	5,952524E+21	6,176740E+22	1,190435E+22	7,367176E+22
2677	3,088324E+22	3,088258E+22	5,952413E+21	5,952002E+21	6,176582E+22	1,190442E+22	7,367024E+22
2678	3,088291E+22	3,088364E+22	5,952435E+21	5,952583E+21	6,176655E+22	1,190502E+22	7,367157E+22
2679	3,088334E+22	3,088202E+22	5,952422E+21	5,952852E+21	6,176536E+22	1,190527E+22	7,367063E+22
2680	3,088169E+22	3,088199E+22	5,953365E+21	5,952676E+21	6,176368E+22	1,190604E+22	7,366972E+22
2681	3,088141E+22	3,088237E+22	5,953182E+21	5,953654E+21	6,176377E+22	1,190684E+22	7,367061E+22
2682	3,088114E+22	3,087996E+22	5,953559E+21	5,953672E+21	6,176110E+22	1,190723E+22	7,366833E+22
2683	3,087945E+22	3,088054E+22	5,954247E+21	5,953701E+21	6,175999E+22	1,190795E+22	7,366794E+22
2684	3,088010E+22	3,087996E+22	5,953758E+21	5,954397E+21	6,176006E+22	1,190816E+22	7,366821E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2685	3,087975E+22	3,087852E+22	5,954220E+21	5,953843E+21	6,175827E+22	1,190806E+22	7,366634E+22
2686	3,087900E+22	3,088021E+22	5,954235E+21	5,954090E+21	6,175921E+22	1,190833E+22	7,366754E+22
2687	3,087990E+22	3,087944E+22	5,953727E+21	5,954302E+21	6,175934E+22	1,190803E+22	7,366737E+22
2688	3,087942E+22	3,087958E+22	5,954169E+21	5,953486E+21	6,175900E+22	1,190766E+22	7,366665E+22
2689	3,088005E+22	3,088112E+22	5,953615E+21	5,953791E+21	6,176117E+22	1,190741E+22	7,366858E+22
2690	3,088130E+22	3,087991E+22	5,953225E+21	5,953359E+21	6,176121E+22	1,190658E+22	7,366779E+22
2691	3,088063E+22	3,088135E+22	5,953544E+21	5,952766E+21	6,176197E+22	1,190631E+22	7,366828E+22
2692	3,088153E+22	3,088222E+22	5,952776E+21	5,953309E+21	6,176375E+22	1,190608E+22	7,366984E+22
2693	3,088186E+22	3,088105E+22	5,952862E+21	5,952743E+21	6,176290E+22	1,190560E+22	7,366851E+22
2694	3,088115E+22	3,088251E+22	5,953104E+21	5,952791E+21	6,176366E+22	1,190590E+22	7,366956E+22
2695	3,088208E+22	3,088177E+22	5,952614E+21	5,953286E+21	6,176385E+22	1,190590E+22	7,366975E+22
2696	3,088177E+22	3,088083E+22	5,953259E+21	5,952731E+21	6,176260E+22	1,190599E+22	7,366859E+22
2697	3,088117E+22	3,088199E+22	5,953370E+21	5,953378E+21	6,176316E+22	1,190675E+22	7,366990E+22
2698	3,088140E+22	3,088024E+22	5,953279E+21	5,953790E+21	6,176164E+22	1,190707E+22	7,366871E+22
2699	3,087972E+22	3,088011E+22	5,954237E+21	5,953622E+21	6,175983E+22	1,190786E+22	7,366769E+22
2700	3,087924E+22	3,088027E+22	5,954078E+21	5,954599E+21	6,175952E+22	1,190868E+22	7,366819E+22
2701	3,087932E+22	3,087790E+22	5,954352E+21	5,954464E+21	6,175722E+22	1,190882E+22	7,366604E+22
2702	3,087789E+22	3,087858E+22	5,955010E+21	5,954428E+21	6,175647E+22	1,190944E+22	7,366591E+22
2703	3,087815E+22	3,087821E+22	5,954561E+21	5,955174E+21	6,175635E+22	1,190974E+22	7,366609E+22
2704	3,087789E+22	3,087704E+22	5,955019E+21	5,954602E+21	6,175493E+22	1,190962E+22	7,366455E+22
2705	3,087712E+22	3,087872E+22	5,955061E+21	5,954835E+21	6,175584E+22	1,190990E+22	7,366574E+22
2706	3,087832E+22	3,087769E+22	5,954421E+21	5,955029E+21	6,175601E+22	1,190945E+22	7,366546E+22
2707	3,087814E+22	3,087788E+22	5,954817E+21	5,954126E+21	6,175602E+22	1,190894E+22	7,366496E+22
2708	3,087857E+22	3,087954E+22	5,954276E+21	5,954450E+21	6,175811E+22	1,190873E+22	7,366684E+22
2709	3,087983E+22	3,087853E+22	5,953813E+21	5,954001E+21	6,175836E+22	1,190781E+22	7,366617E+22
2710	3,087914E+22	3,087996E+22	5,954159E+21	5,953470E+21	6,175911E+22	1,190763E+22	7,366674E+22
2711	3,087967E+22	3,088067E+22	5,953496E+21	5,954091E+21	6,176034E+22	1,190759E+22	7,366793E+22
2712	3,088030E+22	3,087933E+22	5,953642E+21	5,953469E+21	6,175963E+22	1,190711E+22	7,366674E+22
2713	3,087969E+22	3,088074E+22	5,953946E+21	5,953495E+21	6,176042E+22	1,190744E+22	7,366786E+22
2714	3,088062E+22	3,087986E+22	5,953382E+21	5,954062E+21	6,176048E+22	1,190744E+22	7,366793E+22
2715	3,088012E+22	3,087908E+22	5,954066E+21	5,953567E+21	6,175919E+22	1,190763E+22	7,366683E+22
2716	3,087899E+22	3,088031E+22	5,954236E+21	5,954308E+21	6,175930E+22	1,190854E+22	7,366785E+22
2717	3,087927E+22	3,087845E+22	5,954108E+21	5,954676E+21	6,175771E+22	1,190878E+22	7,366650E+22
2718	3,087785E+22	3,087811E+22	5,955084E+21	5,954448E+21	6,175597E+22	1,190953E+22	7,366550E+22
2719	3,087719E+22	3,087823E+22	5,954967E+21	5,955414E+21	6,175541E+22	1,191038E+22	7,366579E+22
2720	3,087749E+22	3,087599E+22	5,955244E+21	5,955244E+21	6,175349E+22	1,191049E+22	7,366397E+22
2721	3,087602E+22	3,087683E+22	5,955896E+21	5,955246E+21	6,175285E+22	1,191114E+22	7,366399E+22
2722	3,087629E+22	3,087639E+22	5,955320E+21	5,956071E+21	6,175268E+22	1,191139E+22	7,366407E+22
2723	3,087626E+22	3,087528E+22	5,955742E+21	5,955444E+21	6,175155E+22	1,191119E+22	7,366273E+22
2724	3,087552E+22	3,087695E+22	5,955771E+21	5,955591E+21	6,175246E+22	1,191136E+22	7,366383E+22
2725	3,087703E+22	3,087609E+22	5,955024E+21	5,955620E+21	6,175312E+22	1,191064E+22	7,366376E+22
2726	3,087697E+22	3,087644E+22	5,955411E+21	5,954678E+21	6,175340E+22	1,191009E+22	7,366349E+22
2727	3,087679E+22	3,087822E+22	5,954960E+21	5,955087E+21	6,175500E+22	1,191005E+22	7,366505E+22
2728	3,087803E+22	3,087727E+22	5,954544E+21	5,954683E+21	6,175530E+22	1,190923E+22	7,366453E+22
2729	3,087738E+22	3,087843E+22	5,954942E+21	5,954193E+21	6,175581E+22	1,190914E+22	7,366494E+22
2730	3,087810E+22	3,087876E+22	5,954214E+21	5,954847E+21	6,175686E+22	1,190906E+22	7,366592E+22
2731	3,087900E+22	3,087748E+22	5,954345E+21	5,954200E+21	6,175648E+22	1,190855E+22	7,366502E+22
2732	3,087809E+22	3,087896E+22	5,954699E+21	5,954269E+21	6,175706E+22	1,190897E+22	7,366602E+22
2733	3,087895E+22	3,087831E+22	5,954112E+21	5,954850E+21	6,175726E+22	1,190896E+22	7,366622E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2734	3,087834E+22	3,087752E+22	5,954846E+21	5,954423E+21	6,175586E+22	1,190927E+22	7,366513E+22
2735	3,087674E+22	3,087852E+22	5,955147E+21	5,955209E+21	6,175525E+22	1,191036E+22	7,366561E+22
2736	3,087730E+22	3,087649E+22	5,955056E+21	5,955510E+21	6,175379E+22	1,191057E+22	7,366435E+22
2737	3,087600E+22	3,087603E+22	5,956031E+21	5,955262E+21	6,175204E+22	1,191129E+22	7,366333E+22
2738	3,087534E+22	3,087605E+22	5,955810E+21	5,956278E+21	6,175139E+22	1,191209E+22	7,366348E+22
2739	3,087569E+22	3,087407E+22	5,956044E+21	5,956137E+21	6,174976E+22	1,191218E+22	7,366194E+22
2740	3,087399E+22	3,087506E+22	5,956677E+21	5,956151E+21	6,174906E+22	1,191283E+22	7,366188E+22
2741	3,087459E+22	3,087470E+22	5,956018E+21	5,956846E+21	6,174929E+22	1,191286E+22	7,366216E+22
2742	3,087492E+22	3,087366E+22	5,956402E+21	5,956089E+21	6,174858E+22	1,191249E+22	7,366107E+22
2743	3,087395E+22	3,087543E+22	5,956484E+21	5,956178E+21	6,174937E+22	1,191266E+22	7,366204E+22
2744	3,087554E+22	3,087475E+22	5,955764E+21	5,956176E+21	6,175029E+22	1,191194E+22	7,366223E+22
2745	3,087529E+22	3,087516E+22	5,956165E+21	5,955338E+21	6,175045E+22	1,191150E+22	7,366195E+22
2746	3,087497E+22	3,087664E+22	5,955640E+21	5,955867E+21	6,175162E+22	1,191151E+22	7,366312E+22
2747	3,087642E+22	3,087550E+22	5,955233E+21	5,955484E+21	6,175193E+22	1,191072E+22	7,366264E+22
2748	3,087585E+22	3,087656E+22	5,955625E+21	5,954953E+21	6,175241E+22	1,191058E+22	7,366299E+22
2749	3,087687E+22	3,087698E+22	5,954838E+21	5,955513E+21	6,175385E+22	1,191035E+22	7,366420E+22
2750	3,087774E+22	3,087594E+22	5,954997E+21	5,954872E+21	6,175367E+22	1,190987E+22	7,366354E+22
2751	3,087616E+22	3,087753E+22	5,955487E+21	5,955037E+21	6,175369E+22	1,191052E+22	7,366422E+22
2752	3,087687E+22	3,087687E+22	5,955001E+21	5,955655E+21	6,175373E+22	1,191066E+22	7,366439E+22
2753	3,087624E+22	3,087576E+22	5,955806E+21	5,955290E+21	6,175200E+22	1,191110E+22	7,366310E+22
2754	3,087473E+22	3,087629E+22	5,956045E+21	5,956095E+21	6,175102E+22	1,191214E+22	7,366316E+22
2755	3,087556E+22	3,087427E+22	5,955933E+21	5,956396E+21	6,174983E+22	1,191233E+22	7,366216E+22
2756	3,087413E+22	3,087392E+22	5,956871E+21	5,956161E+21	6,174805E+22	1,191303E+22	7,366108E+22
2757	3,087358E+22	3,087420E+22	5,956556E+21	5,957149E+21	6,174779E+22	1,191371E+22	7,366149E+22
2758	3,087401E+22	3,087245E+22	5,956763E+21	5,956978E+21	6,174646E+22	1,191374E+22	7,366020E+22
2759	3,087211E+22	3,087340E+22	5,957477E+21	5,956938E+21	6,174550E+22	1,191441E+22	7,365992E+22
2760	3,087303E+22	3,087315E+22	5,956844E+21	5,957485E+21	6,174617E+22	1,191433E+22	7,366050E+22
2761	3,087342E+22	3,087215E+22	5,957202E+21	5,956704E+21	6,174558E+22	1,191391E+22	7,365948E+22
2762	3,087222E+22	3,087377E+22	5,957211E+21	5,956845E+21	6,174600E+22	1,191406E+22	7,366005E+22
2763	3,087378E+22	3,087323E+22	5,956456E+21	5,956914E+21	6,174701E+22	1,191337E+22	7,366038E+22
2764	3,087334E+22	3,087352E+22	5,956831E+21	5,956122E+21	6,174686E+22	1,191295E+22	7,365981E+22
2765	3,087345E+22	3,087490E+22	5,956238E+21	5,956574E+21	6,174835E+22	1,191281E+22	7,366116E+22
2766	3,087527E+22	3,087387E+22	5,955803E+21	5,956116E+21	6,174913E+22	1,191192E+22	7,366105E+22
2767	3,087446E+22	3,087500E+22	5,956286E+21	5,955585E+21	6,174946E+22	1,191187E+22	7,366133E+22
2768	3,087544E+22	3,087566E+22	5,955600E+21	5,956138E+21	6,175110E+22	1,191174E+22	7,366283E+22
2769	3,087601E+22	3,087464E+22	5,955818E+21	5,955641E+21	6,175065E+22	1,191146E+22	7,366211E+22
2770	3,087412E+22	3,087580E+22	5,956331E+21	5,955918E+21	6,174992E+22	1,191225E+22	7,366217E+22
2771	3,087496E+22	3,087486E+22	5,955894E+21	5,956568E+21	6,174982E+22	1,191246E+22	7,366228E+22
2772	3,087432E+22	3,087356E+22	5,956686E+21	5,956182E+21	6,174788E+22	1,191287E+22	7,366075E+22
2773	3,087310E+22	3,087412E+22	5,956833E+21	5,956923E+21	6,174722E+22	1,191376E+22	7,366097E+22
2774	3,087390E+22	3,087239E+22	5,956697E+21	5,957224E+21	6,174629E+22	1,191392E+22	7,366021E+22
2775	3,087203E+22	3,087223E+22	5,957691E+21	5,957038E+21	6,174426E+22	1,191473E+22	7,365899E+22
2776	3,087158E+22	3,087262E+22	5,957448E+21	5,957962E+21	6,174420E+22	1,191541E+22	7,365961E+22
2777	3,087214E+22	3,087084E+22	5,957662E+21	5,957769E+21	6,174298E+22	1,191543E+22	7,365841E+22
2778	3,087033E+22	3,087152E+22	5,958291E+21	5,957673E+21	6,174185E+22	1,191596E+22	7,365782E+22
2779	3,087143E+22	3,087133E+22	5,957639E+21	5,958196E+21	6,174276E+22	1,191584E+22	7,365859E+22
2780	3,087161E+22	3,087048E+22	5,957931E+21	5,957442E+21	6,174209E+22	1,191537E+22	7,365746E+22
2781	3,087057E+22	3,087216E+22	5,957813E+21	5,957591E+21	6,174272E+22	1,191540E+22	7,365813E+22
2782	3,087222E+22	3,087171E+22	5,957026E+21	5,957649E+21	6,174393E+22	1,191467E+22	7,365861E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2783	3,087178E+22	3,087188E+22	5,957453E+21	5,956820E+21	6,174366E+22	1,191427E+22	7,365793E+22
2784	3,087225E+22	3,087336E+22	5,956923E+21	5,957139E+21	6,174561E+22	1,191406E+22	7,365967E+22
2785	3,087406E+22	3,087251E+22	5,956513E+21	5,956710E+21	6,174657E+22	1,191322E+22	7,365979E+22
2786	3,087287E+22	3,087349E+22	5,957010E+21	5,956273E+21	6,174637E+22	1,191328E+22	7,365965E+22
2787	3,087364E+22	3,087417E+22	5,956406E+21	5,956931E+21	6,174781E+22	1,191334E+22	7,366115E+22
2788	3,087389E+22	3,087294E+22	5,956655E+21	5,956514E+21	6,174684E+22	1,191317E+22	7,366001E+22
2789	3,087230E+22	3,087379E+22	5,957119E+21	5,956760E+21	6,174609E+22	1,191388E+22	7,365997E+22
2790	3,087334E+22	3,087290E+22	5,956659E+21	5,957364E+21	6,174623E+22	1,191402E+22	7,366026E+22
2791	3,087249E+22	3,087158E+22	5,957513E+21	5,957006E+21	6,174407E+22	1,191452E+22	7,365858E+22
2792	3,087131E+22	3,087239E+22	5,957725E+21	5,957724E+21	6,174370E+22	1,191545E+22	7,365915E+22
2793	3,087196E+22	3,087083E+22	5,957587E+21	5,958128E+21	6,174279E+22	1,191572E+22	7,365850E+22
2794	3,086992E+22	3,087032E+22	5,958570E+21	5,957975E+21	6,174024E+22	1,191654E+22	7,365679E+22
2795	3,086978E+22	3,087063E+22	5,958354E+21	5,958830E+21	6,174042E+22	1,191718E+22	7,365760E+22
2796	3,087035E+22	3,086887E+22	5,958495E+21	5,958547E+21	6,173922E+22	1,191704E+22	7,365626E+22
2797	3,086882E+22	3,086963E+22	5,958990E+21	5,958374E+21	6,173845E+22	1,191736E+22	7,365581E+22
2798	3,086982E+22	3,086978E+22	5,958272E+21	5,958872E+21	6,173961E+22	1,191714E+22	7,365675E+22
2799	3,086965E+22	3,086900E+22	5,958584E+21	5,958177E+21	6,173864E+22	1,191676E+22	7,365540E+22
2800	3,086886E+22	3,087069E+22	5,958516E+21	5,958246E+21	6,173955E+22	1,191676E+22	7,365632E+22
2801	3,087077E+22	3,087026E+22	5,957722E+21	5,958299E+21	6,174102E+22	1,191602E+22	7,365705E+22
2802	3,087043E+22	3,087020E+22	5,958112E+21	5,957449E+21	6,174063E+22	1,191556E+22	7,365619E+22
2803	3,087104E+22	3,087179E+22	5,957646E+21	5,957780E+21	6,174283E+22	1,191543E+22	7,365826E+22
2804	3,087243E+22	3,087111E+22	5,957238E+21	5,957421E+21	6,174354E+22	1,191466E+22	7,365820E+22
2805	3,087123E+22	3,087198E+22	5,957685E+21	5,957064E+21	6,174322E+22	1,191475E+22	7,365797E+22
2806	3,087187E+22	3,087258E+22	5,957124E+21	5,957735E+21	6,174445E+22	1,191486E+22	7,365931E+22
2807	3,087200E+22	3,087108E+22	5,957455E+21	5,957352E+21	6,174308E+22	1,191481E+22	7,365789E+22
2808	3,087069E+22	3,087185E+22	5,957979E+21	5,957507E+21	6,174254E+22	1,191549E+22	7,365803E+22
2809	3,087162E+22	3,087111E+22	5,957535E+21	5,958181E+21	6,174273E+22	1,191572E+22	7,365845E+22
2810	3,087047E+22	3,086965E+22	5,958361E+21	5,957901E+21	6,174012E+22	1,191626E+22	7,365638E+22
2811	3,086927E+22	3,087046E+22	5,958636E+21	5,958670E+21	6,173973E+22	1,191731E+22	7,365704E+22
2812	3,086977E+22	3,086892E+22	5,958497E+21	5,959055E+21	6,173869E+22	1,191755E+22	7,365624E+22
2813	3,086821E+22	3,086826E+22	5,959367E+21	5,958818E+21	6,173647E+22	1,191819E+22	7,365466E+22
2814	3,086822E+22	3,086879E+22	5,959105E+21	5,959550E+21	6,173701E+22	1,191866E+22	7,365566E+22
2815	3,086859E+22	3,086715E+22	5,959253E+21	5,959272E+21	6,173573E+22	1,191852E+22	7,365426E+22
2816	3,086709E+22	3,086812E+22	5,959748E+21	5,959048E+21	6,173521E+22	1,191880E+22	7,365401E+22
2817	3,086799E+22	3,086844E+22	5,959003E+21	5,959625E+21	6,173643E+22	1,191863E+22	7,365506E+22
2818	3,086781E+22	3,086727E+22	5,959284E+21	5,958944E+21	6,173509E+22	1,191823E+22	7,365331E+22
2819	3,086751E+22	3,086888E+22	5,959251E+21	5,958951E+21	6,173639E+22	1,191820E+22	7,365459E+22
2820	3,086943E+22	3,086862E+22	5,958416E+21	5,958936E+21	6,173805E+22	1,191735E+22	7,365540E+22
2821	3,086928E+22	3,086863E+22	5,958704E+21	5,958087E+21	6,173791E+22	1,191679E+22	7,365470E+22
2822	3,086961E+22	3,087053E+22	5,958249E+21	5,958424E+21	6,174014E+22	1,191667E+22	7,365681E+22
2823	3,087052E+22	3,086975E+22	5,957930E+21	5,958176E+21	6,174027E+22	1,191611E+22	7,365637E+22
2824	3,086941E+22	3,087046E+22	5,958482E+21	5,957786E+21	6,173987E+22	1,191627E+22	7,365614E+22
2825	3,087013E+22	3,087094E+22	5,957940E+21	5,958492E+21	6,174107E+22	1,191643E+22	7,365750E+22
2826	3,087020E+22	3,086902E+22	5,958279E+21	5,958158E+21	6,173922E+22	1,191644E+22	7,365566E+22
2827	3,086906E+22	3,086980E+22	5,958865E+21	5,958351E+21	6,173886E+22	1,191722E+22	7,365608E+22
2828	3,086966E+22	3,086924E+22	5,958403E+21	5,959085E+21	6,173890E+22	1,191749E+22	7,365639E+22
2829	3,086864E+22	3,086772E+22	5,959137E+21	5,958857E+21	6,173636E+22	1,191799E+22	7,365436E+22
2830	3,086748E+22	3,086861E+22	5,959429E+21	5,959546E+21	6,173609E+22	1,191897E+22	7,365506E+22
2831	3,086791E+22	3,086700E+22	5,959339E+21	5,959886E+21	6,173491E+22	1,191923E+22	7,365414E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2832	3,086658E+22	3,086649E+22	5,960230E+21	5,959513E+21	6,173307E+22	1,191974E+22	7,365281E+22
2833	3,086643E+22	3,086725E+22	5,959945E+21	5,960270E+21	6,173368E+22	1,192021E+22	7,365389E+22
2834	3,086646E+22	3,086544E+22	5,960052E+21	5,960070E+21	6,173190E+22	1,192012E+22	7,365202E+22
2835	3,086515E+22	3,086633E+22	5,960557E+21	5,959870E+21	6,173149E+22	1,192043E+22	7,365191E+22
2836	3,086608E+22	3,086667E+22	5,959765E+21	5,960395E+21	6,173276E+22	1,192016E+22	7,365292E+22
2837	3,086653E+22	3,086544E+22	5,959883E+21	5,959650E+21	6,173197E+22	1,191953E+22	7,365150E+22
2838	3,086642E+22	3,086732E+22	5,959821E+21	5,959547E+21	6,173374E+22	1,191937E+22	7,365311E+22
2839	3,086807E+22	3,086728E+22	5,959040E+21	5,959563E+21	6,173535E+22	1,191860E+22	7,365395E+22
2840	3,086784E+22	3,086746E+22	5,959369E+21	5,958712E+21	6,173531E+22	1,191808E+22	7,365339E+22
2841	3,086785E+22	3,086935E+22	5,958971E+21	5,959144E+21	6,173720E+22	1,191811E+22	7,365531E+22
2842	3,086859E+22	3,086802E+22	5,958696E+21	5,958962E+21	6,173661E+22	1,191766E+22	7,365427E+22
2843	3,086785E+22	3,086839E+22	5,959317E+21	5,958567E+21	6,173624E+22	1,191788E+22	7,365413E+22
2844	3,086844E+22	3,086897E+22	5,958772E+21	5,959256E+21	6,173740E+22	1,191803E+22	7,365543E+22
2845	3,086867E+22	3,086705E+22	5,959001E+21	5,958994E+21	6,173572E+22	1,191799E+22	7,365372E+22
2846	3,086731E+22	3,086808E+22	5,959593E+21	5,959197E+21	6,173539E+22	1,191879E+22	7,365418E+22
2847	3,086757E+22	3,086752E+22	5,959225E+21	5,959992E+21	6,173509E+22	1,191922E+22	7,365431E+22
2848	3,086675E+22	3,086597E+22	5,960022E+21	5,959674E+21	6,173273E+22	1,191970E+22	7,365242E+22
2849	3,086566E+22	3,086693E+22	5,960328E+21	5,960326E+21	6,173259E+22	1,192065E+22	7,365324E+22
2850	3,086596E+22	3,086505E+22	5,960244E+21	5,960683E+21	6,173101E+22	1,192093E+22	7,365194E+22
2851	3,086476E+22	3,086455E+22	5,961149E+21	5,960336E+21	6,172932E+22	1,192149E+22	7,365080E+22
2852	3,086429E+22	3,086552E+22	5,960792E+21	5,961113E+21	6,172980E+22	1,192191E+22	7,365171E+22
2853	3,086463E+22	3,086355E+22	5,960741E+21	5,960962E+21	6,172818E+22	1,192170E+22	7,364988E+22
2854	3,086365E+22	3,086451E+22	5,961187E+21	5,960639E+21	6,172816E+22	1,192183E+22	7,364999E+22
2855	3,086473E+22	3,086490E+22	5,960411E+21	5,961082E+21	6,172963E+22	1,192149E+22	7,365113E+22
2856	3,086542E+22	3,086403E+22	5,960521E+21	5,960196E+21	6,172945E+22	1,192072E+22	7,365017E+22
2857	3,086511E+22	3,086624E+22	5,960459E+21	5,960106E+21	6,173135E+22	1,192056E+22	7,365192E+22
2858	3,086622E+22	3,086597E+22	5,959730E+21	5,960219E+21	6,173218E+22	1,191995E+22	7,365213E+22
2859	3,086605E+22	3,086593E+22	5,960149E+21	5,959442E+21	6,173198E+22	1,191959E+22	7,365157E+22
2860	3,086592E+22	3,086765E+22	5,959766E+21	5,959861E+21	6,173357E+22	1,191963E+22	7,365320E+22
2861	3,086710E+22	3,086604E+22	5,959381E+21	5,959732E+21	6,173314E+22	1,191911E+22	7,365226E+22
2862	3,086650E+22	3,086652E+22	5,959985E+21	5,959299E+21	6,173302E+22	1,191928E+22	7,365230E+22
2863	3,086679E+22	3,086720E+22	5,959514E+21	5,960066E+21	6,173399E+22	1,191958E+22	7,365357E+22
2864	3,086694E+22	3,086555E+22	5,959776E+21	5,959812E+21	6,173249E+22	1,191959E+22	7,365207E+22
2865	3,086540E+22	3,086659E+22	5,960425E+21	5,960069E+21	6,173199E+22	1,192049E+22	7,365249E+22
2866	3,086548E+22	3,086559E+22	5,960157E+21	5,960884E+21	6,173107E+22	1,192104E+22	7,365211E+22
2867	3,086501E+22	3,086387E+22	5,961008E+21	5,960537E+21	6,172888E+22	1,192154E+22	7,365043E+22
2868	3,086367E+22	3,086497E+22	5,961283E+21	5,961135E+21	6,172864E+22	1,192242E+22	7,365106E+22
2869	3,086410E+22	3,086305E+22	5,961041E+21	5,961574E+21	6,172715E+22	1,192261E+22	7,364977E+22
2870	3,086282E+22	3,086270E+22	5,961872E+21	5,961201E+21	6,172552E+22	1,192307E+22	7,364859E+22
2871	3,086226E+22	3,086367E+22	5,961534E+21	5,961967E+21	6,172593E+22	1,192350E+22	7,364943E+22
2872	3,086306E+22	3,086187E+22	5,961438E+21	5,961665E+21	6,172492E+22	1,192310E+22	7,364803E+22
2873	3,086234E+22	3,086303E+22	5,961850E+21	5,961256E+21	6,172536E+22	1,192311E+22	7,364847E+22
2874	3,086330E+22	3,086338E+22	5,961120E+21	5,961678E+21	6,172667E+22	1,192280E+22	7,364947E+22
2875	3,086405E+22	3,086262E+22	5,961258E+21	5,960824E+21	6,172667E+22	1,192208E+22	7,364875E+22
2876	3,086327E+22	3,086499E+22	5,961191E+21	5,960761E+21	6,172826E+22	1,192195E+22	7,365021E+22
2877	3,086453E+22	3,086438E+22	5,960370E+21	5,960986E+21	6,172890E+22	1,192136E+22	7,365026E+22
2878	3,086453E+22	3,086416E+22	5,960782E+21	5,960170E+21	6,172870E+22	1,192095E+22	7,364965E+22
2879	3,086442E+22	3,086579E+22	5,960456E+21	5,960582E+21	6,173021E+22	1,192104E+22	7,365124E+22
2880	3,086573E+22	3,086443E+22	5,960078E+21	5,960410E+21	6,173016E+22	1,192049E+22	7,365065E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2881	3,086494E+22	3,086512E+22	5,960698E+21	5,960042E+21	6,173006E+22	1,192074E+22	7,365080E+22
2882	3,086475E+22	3,086556E+22	5,960343E+21	5,960909E+21	6,173031E+22	1,192125E+22	7,365157E+22
2883	3,086501E+22	3,086375E+22	5,960701E+21	5,960698E+21	6,172876E+22	1,192140E+22	7,365016E+22
2884	3,086335E+22	3,086473E+22	5,961377E+21	5,960899E+21	6,172808E+22	1,192228E+22	7,365035E+22
2885	3,086375E+22	3,086346E+22	5,961014E+21	5,961761E+21	6,172721E+22	1,192277E+22	7,364999E+22
2886	3,086333E+22	3,086188E+22	5,961827E+21	5,961381E+21	6,172521E+22	1,192321E+22	7,364841E+22
2887	3,086171E+22	3,086303E+22	5,962107E+21	5,962016E+21	6,172475E+22	1,192412E+22	7,364887E+22
2888	3,086213E+22	3,086137E+22	5,961821E+21	5,962424E+21	6,172350E+22	1,192425E+22	7,364774E+22
2889	3,086099E+22	3,086106E+22	5,962602E+21	5,962016E+21	6,172205E+22	1,192462E+22	7,364667E+22
2890	3,086048E+22	3,086171E+22	5,962328E+21	5,962718E+21	6,172219E+22	1,192505E+22	7,364724E+22
2891	3,086172E+22	3,086009E+22	5,962238E+21	5,962327E+21	6,172181E+22	1,192457E+22	7,364638E+22
2892	3,086081E+22	3,086159E+22	5,962610E+21	5,961847E+21	6,172240E+22	1,192446E+22	7,364686E+22
2893	3,086176E+22	3,086191E+22	5,961771E+21	5,962366E+21	6,172367E+22	1,192414E+22	7,364781E+22
2894	3,086235E+22	3,086125E+22	5,961868E+21	5,961529E+21	6,172360E+22	1,192340E+22	7,364699E+22
2895	3,086140E+22	3,086339E+22	5,961854E+21	5,961489E+21	6,172479E+22	1,192334E+22	7,364813E+22
2896	3,086295E+22	3,086282E+22	5,961022E+21	5,961640E+21	6,172577E+22	1,192266E+22	7,364843E+22
2897	3,086319E+22	3,086263E+22	5,961418E+21	5,960820E+21	6,172581E+22	1,192224E+22	7,364805E+22
2898	3,086288E+22	3,086405E+22	5,961209E+21	5,961287E+21	6,172692E+22	1,192250E+22	7,364942E+22
2899	3,086422E+22	3,086282E+22	5,960886E+21	5,961197E+21	6,172704E+22	1,192208E+22	7,364913E+22
2900	3,086301E+22	3,086362E+22	5,961527E+21	5,960870E+21	6,172663E+22	1,192240E+22	7,364903E+22
2901	3,086297E+22	3,086367E+22	5,961144E+21	5,961830E+21	6,172664E+22	1,192297E+22	7,364961E+22
2902	3,086336E+22	3,086174E+22	5,961511E+21	5,961564E+21	6,172510E+22	1,192308E+22	7,364818E+22
2903	3,086159E+22	3,086267E+22	5,962241E+21	5,961733E+21	6,172427E+22	1,192397E+22	7,364824E+22
2904	3,086198E+22	3,086170E+22	5,961851E+21	5,962542E+21	6,172368E+22	1,192439E+22	7,364807E+22
2905	3,086133E+22	3,086024E+22	5,962635E+21	5,962211E+21	6,172157E+22	1,192485E+22	7,364641E+22
2906	3,085940E+22	3,086113E+22	5,962992E+21	5,962889E+21	6,172053E+22	1,192588E+22	7,364641E+22
2907	3,086015E+22	3,085942E+22	5,962722E+21	5,963272E+21	6,171957E+22	1,192599E+22	7,364556E+22
2908	3,085915E+22	3,085924E+22	5,963442E+21	5,962754E+21	6,171839E+22	1,192620E+22	7,364459E+22
2909	3,085909E+22	3,085981E+22	5,963054E+21	5,963457E+21	6,171891E+22	1,192651E+22	7,364542E+22
2910	3,086037E+22	3,085852E+22	5,962900E+21	5,963008E+21	6,171889E+22	1,192591E+22	7,364480E+22
2911	3,085917E+22	3,086018E+22	5,963271E+21	5,962551E+21	6,171935E+22	1,192582E+22	7,364517E+22
2912	3,086003E+22	3,086069E+22	5,962401E+21	5,963043E+21	6,172072E+22	1,192544E+22	7,364616E+22
2913	3,086072E+22	3,085988E+22	5,962486E+21	5,962214E+21	6,172060E+22	1,192470E+22	7,364530E+22
2914	3,085980E+22	3,086156E+22	5,962571E+21	5,962162E+21	6,172136E+22	1,192473E+22	7,364610E+22
2915	3,086167E+22	3,086108E+22	5,961774E+21	5,962297E+21	6,172275E+22	1,192407E+22	7,364682E+22
2916	3,086170E+22	3,086113E+22	5,962149E+21	5,961480E+21	6,172283E+22	1,192363E+22	7,364646E+22
2917	3,086135E+22	3,086237E+22	5,961904E+21	5,962088E+21	6,172372E+22	1,192399E+22	7,364771E+22
2918	3,086251E+22	3,086125E+22	5,961597E+21	5,962027E+21	6,172376E+22	1,192362E+22	7,364739E+22
2919	3,086116E+22	3,086182E+22	5,962318E+21	5,961709E+21	6,172298E+22	1,192403E+22	7,364700E+22
2920	3,086122E+22	3,086193E+22	5,961964E+21	5,962586E+21	6,172315E+22	1,192455E+22	7,364770E+22
2921	3,086169E+22	3,086004E+22	5,962327E+21	5,962326E+21	6,172173E+22	1,192465E+22	7,364639E+22
2922	3,085959E+22	3,086068E+22	5,963169E+21	5,962558E+21	6,172027E+22	1,192573E+22	7,364599E+22
2923	3,085991E+22	3,085987E+22	5,962803E+21	5,963432E+21	6,171978E+22	1,192624E+22	7,364602E+22
2924	3,085906E+22	3,085846E+22	5,963538E+21	5,963121E+21	6,171751E+22	1,192666E+22	7,364417E+22
2925	3,085750E+22	3,085892E+22	5,963818E+21	5,963839E+21	6,171641E+22	1,192766E+22	7,364407E+22
2926	3,085861E+22	3,085736E+22	5,963483E+21	5,964102E+21	6,171597E+22	1,192759E+22	7,364356E+22
2927	3,085767E+22	3,085737E+22	5,964174E+21	5,963504E+21	6,171504E+22	1,192768E+22	7,364272E+22
2928	3,085762E+22	3,085840E+22	5,963742E+21	5,964112E+21	6,171602E+22	1,192785E+22	7,364388E+22
2929	3,085871E+22	3,085734E+22	5,963533E+21	5,963671E+21	6,171605E+22	1,192720E+22	7,364326E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2930	3,085719E+22	3,085865E+22	5,963999E+21	5,963247E+21	6,171585E+22	1,192725E+22	7,364309E+22
2931	3,085831E+22	3,085910E+22	5,963160E+21	5,963708E+21	6,171741E+22	1,192687E+22	7,364427E+22
2932	3,085910E+22	3,085829E+22	5,963206E+21	5,962843E+21	6,171739E+22	1,192605E+22	7,364344E+22
2933	3,085859E+22	3,085969E+22	5,963228E+21	5,962863E+21	6,171828E+22	1,192609E+22	7,364437E+22
2934	3,086045E+22	3,085946E+22	5,962414E+21	5,963010E+21	6,171991E+22	1,192542E+22	7,364533E+22
2935	3,086015E+22	3,085964E+22	5,962809E+21	5,962260E+21	6,171979E+22	1,192507E+22	7,364485E+22
2936	3,085969E+22	3,086102E+22	5,962586E+21	5,962846E+21	6,172070E+22	1,192543E+22	7,364614E+22
2937	3,086083E+22	3,085973E+22	5,962325E+21	5,962782E+21	6,172055E+22	1,192511E+22	7,364566E+22
2938	3,085934E+22	3,085987E+22	5,963209E+21	5,962473E+21	6,171921E+22	1,192568E+22	7,364489E+22
2939	3,085947E+22	3,086008E+22	5,962917E+21	5,963347E+21	6,171955E+22	1,192626E+22	7,364581E+22
2940	3,085960E+22	3,085831E+22	5,963266E+21	5,963158E+21	6,171791E+22	1,192642E+22	7,364434E+22
2941	3,085749E+22	3,085859E+22	5,964035E+21	5,963538E+21	6,171608E+22	1,192757E+22	7,364365E+22
2942	3,085783E+22	3,085780E+22	5,963631E+21	5,964404E+21	6,171562E+22	1,192804E+22	7,364366E+22
2943	3,085710E+22	3,085633E+22	5,964341E+21	5,964036E+21	6,171343E+22	1,192838E+22	7,364181E+22
2944	3,085593E+22	3,085705E+22	5,964567E+21	5,964604E+21	6,171298E+22	1,192917E+22	7,364215E+22
2945	3,085721E+22	3,085581E+22	5,964200E+21	5,964790E+21	6,171302E+22	1,192899E+22	7,364201E+22
2946	3,085601E+22	3,085577E+22	5,964970E+21	5,964202E+21	6,171178E+22	1,192917E+22	7,364096E+22
2947	3,085585E+22	3,085706E+22	5,964549E+21	5,964804E+21	6,171291E+22	1,192935E+22	7,364226E+22
2948	3,085675E+22	3,085600E+22	5,964293E+21	5,964382E+21	6,171275E+22	1,192868E+22	7,364142E+22
2949	3,085560E+22	3,085669E+22	5,964691E+21	5,964010E+21	6,171228E+22	1,192870E+22	7,364099E+22
2950	3,085699E+22	3,085725E+22	5,963807E+21	5,964392E+21	6,171425E+22	1,192820E+22	7,364245E+22
2951	3,085782E+22	3,085659E+22	5,963817E+21	5,963514E+21	6,171441E+22	1,192733E+22	7,364174E+22
2952	3,085725E+22	3,085831E+22	5,963827E+21	5,963512E+21	6,171556E+22	1,192734E+22	7,364290E+22
2953	3,085890E+22	3,085829E+22	5,963025E+21	5,963687E+21	6,171719E+22	1,192671E+22	7,364390E+22
2954	3,085828E+22	3,085807E+22	5,963572E+21	5,963001E+21	6,171635E+22	1,192657E+22	7,364292E+22
2955	3,085790E+22	3,085940E+22	5,963450E+21	5,963553E+21	6,171730E+22	1,192700E+22	7,364431E+22
2956	3,085899E+22	3,085808E+22	5,963202E+21	5,963518E+21	6,171707E+22	1,192672E+22	7,364379E+22
2957	3,085765E+22	3,085774E+22	5,964069E+21	5,963342E+21	6,171539E+22	1,192741E+22	7,364280E+22
2958	3,085764E+22	3,085811E+22	5,963760E+21	5,964256E+21	6,171575E+22	1,192802E+22	7,364377E+22
2959	3,085752E+22	3,085635E+22	5,964082E+21	5,964147E+21	6,171387E+22	1,192823E+22	7,364210E+22
2960	3,085556E+22	3,085665E+22	5,964814E+21	5,964476E+21	6,171221E+22	1,192929E+22	7,364150E+22
2961	3,085615E+22	3,085588E+22	5,964401E+21	5,965244E+21	6,171202E+22	1,192965E+22	7,364167E+22
2962	3,085547E+22	3,085430E+22	5,965194E+21	5,964809E+21	6,170977E+22	1,193000E+22	7,363977E+22
2963	3,085440E+22	3,085543E+22	5,965447E+21	5,965286E+21	6,170983E+22	1,193073E+22	7,364056E+22
2964	3,085533E+22	3,085448E+22	5,965055E+21	5,965494E+21	6,170981E+22	1,193055E+22	7,364036E+22
2965	3,085408E+22	3,085409E+22	5,965748E+21	5,965020E+21	6,170818E+22	1,193077E+22	7,363894E+22
2966	3,085395E+22	3,085533E+22	5,965279E+21	5,965573E+21	6,170928E+22	1,193085E+22	7,364014E+22
2967	3,085496E+22	3,085416E+22	5,964971E+21	5,965120E+21	6,170913E+22	1,193009E+22	7,363922E+22
2968	3,085428E+22	3,085499E+22	5,965273E+21	5,964644E+21	6,170927E+22	1,192992E+22	7,363919E+22
2969	3,085582E+22	3,085579E+22	5,964372E+21	5,964981E+21	6,171161E+22	1,192935E+22	7,364096E+22
2970	3,085638E+22	3,085516E+22	5,964480E+21	5,964165E+21	6,171154E+22	1,192864E+22	7,364018E+22
2971	3,085569E+22	3,085713E+22	5,964546E+21	5,964178E+21	6,171281E+22	1,192872E+22	7,364154E+22
2972	3,085709E+22	3,085702E+22	5,963796E+21	5,964403E+21	6,171411E+22	1,192820E+22	7,364231E+22
2973	3,085669E+22	3,085612E+22	5,964351E+21	5,963811E+21	6,171281E+22	1,192816E+22	7,364097E+22
2974	3,085638E+22	3,085744E+22	5,964245E+21	5,964318E+21	6,171382E+22	1,192856E+22	7,364238E+22
2975	3,085727E+22	3,085618E+22	5,963998E+21	5,964346E+21	6,171345E+22	1,192834E+22	7,364179E+22
2976	3,085586E+22	3,085595E+22	5,964824E+21	5,964199E+21	6,171181E+22	1,192902E+22	7,364083E+22
2977	3,085568E+22	3,085640E+22	5,964522E+21	5,965123E+21	6,171209E+22	1,192964E+22	7,364173E+22
2978	3,085543E+22	3,085435E+22	5,964953E+21	5,965040E+21	6,170978E+22	1,192999E+22	7,363977E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude ☉	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2979	3,085373E+22	3,085477E+22	5,965724E+21	5,965266E+21	6,170850E+22	1,193099E+22	7,363949E+22
2980	3,085439E+22	3,085418E+22	5,965320E+21	5,966005E+21	6,170858E+22	1,193132E+22	7,363990E+22
2981	3,085385E+22	3,085232E+22	5,966068E+21	5,965651E+21	6,170616E+22	1,193172E+22	7,363788E+22
2982	3,085260E+22	3,085375E+22	5,966282E+21	5,966101E+21	6,170635E+22	1,193238E+22	7,363874E+22
2983	3,085328E+22	3,085286E+22	5,965815E+21	5,966348E+21	6,170614E+22	1,193216E+22	7,363830E+22
2984	3,085222E+22	3,085233E+22	5,966418E+21	5,965816E+21	6,170455E+22	1,193223E+22	7,363679E+22
2985	3,085240E+22	3,085358E+22	5,965905E+21	5,966238E+21	6,170598E+22	1,193214E+22	7,363812E+22
2986	3,085354E+22	3,085235E+22	5,965641E+21	5,965754E+21	6,170588E+22	1,193140E+22	7,363728E+22
2987	3,085299E+22	3,085359E+22	5,965952E+21	5,965221E+21	6,170658E+22	1,193117E+22	7,363775E+22
2988	3,085428E+22	3,085466E+22	5,965070E+21	5,965613E+21	6,170894E+22	1,193068E+22	7,363963E+22
2989	3,085475E+22	3,085363E+22	5,965156E+21	5,964927E+21	6,170837E+22	1,193008E+22	7,363846E+22
2990	3,085406E+22	3,085553E+22	5,965254E+21	5,964897E+21	6,170959E+22	1,193015E+22	7,363974E+22
2991	3,085541E+22	3,085529E+22	5,964520E+21	5,965131E+21	6,171071E+22	1,192965E+22	7,364036E+22
2992	3,085524E+22	3,085436E+22	5,965047E+21	5,964539E+21	6,170960E+22	1,192959E+22	7,363918E+22
2993	3,085486E+22	3,085578E+22	5,964968E+21	5,965037E+21	6,171064E+22	1,193000E+22	7,364064E+22
2994	3,085537E+22	3,085444E+22	5,964825E+21	5,965190E+21	6,170981E+22	1,193002E+22	7,363982E+22
2995	3,085389E+22	3,085433E+22	5,965683E+21	5,965054E+21	6,170823E+22	1,193074E+22	7,363896E+22
2996	3,085366E+22	3,085463E+22	5,965439E+21	5,966004E+21	6,170829E+22	1,193144E+22	7,363974E+22
2997	3,085368E+22	3,085212E+22	5,965850E+21	5,965959E+21	6,170580E+22	1,193181E+22	7,363761E+22
2998	3,085216E+22	3,085274E+22	5,966599E+21	5,966092E+21	6,170489E+22	1,193269E+22	7,363759E+22
2999	3,085254E+22	3,085237E+22	5,966187E+21	5,966845E+21	6,170491E+22	1,193303E+22	7,363794E+22