

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	2,912833E+09	2,912806E+09	3,517311E+09	3,517283E+09	5,825638E+09	7,034594E+09	1,286023E+10
-2999	2,912690E+09	2,912803E+09	3,517343E+09	3,517320E+09	5,825493E+09	7,034663E+09	1,286016E+10
-2998	2,912844E+09	2,912851E+09	3,517325E+09	3,517391E+09	5,825695E+09	7,034716E+09	1,286041E+10
-2997	2,912832E+09	2,912855E+09	3,517368E+09	3,517243E+09	5,825687E+09	7,034611E+09	1,286030E+10
-2996	2,912800E+09	2,912817E+09	3,517381E+09	3,517377E+09	5,825617E+09	7,034757E+09	1,286037E+10
-2995	2,912964E+09	2,912893E+09	3,517351E+09	3,517378E+09	5,825857E+09	7,034729E+09	1,286059E+10
-2994	2,912847E+09	2,912909E+09	3,517356E+09	3,517292E+09	5,825756E+09	7,034648E+09	1,286040E+10
-2993	2,912897E+09	2,912895E+09	3,517321E+09	3,517436E+09	5,825792E+09	7,034757E+09	1,286055E+10
-2992	2,912990E+09	2,912948E+09	3,517321E+09	3,517320E+09	5,825938E+09	7,034641E+09	1,286058E+10
-2991	2,912835E+09	2,912902E+09	3,517369E+09	3,517289E+09	5,825737E+09	7,034658E+09	1,286040E+10
-2990	2,912944E+09	2,912907E+09	3,517342E+09	3,517384E+09	5,825852E+09	7,034727E+09	1,286058E+10
-2989	2,912918E+09	2,912915E+09	3,517357E+09	3,517255E+09	5,825832E+09	7,034612E+09	1,286044E+10
-2988	2,912772E+09	2,912843E+09	3,517359E+09	3,517369E+09	5,825615E+09	7,034727E+09	1,286034E+10
-2987	2,912888E+09	2,912867E+09	3,517334E+09	3,517393E+09	5,825754E+09	7,034727E+09	1,286048E+10
-2986	2,912769E+09	2,912831E+09	3,517361E+09	3,517257E+09	5,825599E+09	7,034618E+09	1,286022E+10
-2985	2,912769E+09	2,912756E+09	3,517329E+09	3,517381E+09	5,825525E+09	7,034710E+09	1,286023E+10
-2984	2,912899E+09	2,912802E+09	3,517309E+09	3,517317E+09	5,825700E+09	7,034626E+09	1,286033E+10
-2983	2,912734E+09	2,912783E+09	3,517338E+09	3,517270E+09	5,825517E+09	7,034608E+09	1,286012E+10
-2982	2,912811E+09	2,912815E+09	3,517292E+09	3,517389E+09	5,825625E+09	7,034681E+09	1,286031E+10
-2981	2,912862E+09	2,912874E+09	3,517317E+09	3,517267E+09	5,825736E+09	7,034584E+09	1,286032E+10
-2980	2,912738E+09	2,912822E+09	3,517352E+09	3,517318E+09	5,825560E+09	7,034670E+09	1,286023E+10
-2979	2,912909E+09	2,912868E+09	3,517356E+09	3,517374E+09	5,825777E+09	7,034730E+09	1,286051E+10
-2978	2,912879E+09	2,912899E+09	3,517387E+09	3,517254E+09	5,825778E+09	7,034641E+09	1,286042E+10
-2977	2,912851E+09	2,912866E+09	3,517345E+09	3,517395E+09	5,825717E+09	7,034740E+09	1,286046E+10
-2976	2,913014E+09	2,912961E+09	3,517317E+09	3,517394E+09	5,825975E+09	7,034711E+09	1,286069E+10
-2975	2,912880E+09	2,912955E+09	3,517356E+09	3,517300E+09	5,825835E+09	7,034657E+09	1,286049E+10
-2974	2,912933E+09	2,912952E+09	3,517320E+09	3,517398E+09	5,825885E+09	7,034718E+09	1,286060E+10
-2973	2,913042E+09	2,912994E+09	3,517348E+09	3,517290E+09	5,826037E+09	7,034638E+09	1,286067E+10
-2972	2,912876E+09	2,912914E+09	3,517376E+09	3,517301E+09	5,825791E+09	7,034677E+09	1,286047E+10
-2971	2,912965E+09	2,912936E+09	3,517354E+09	3,517396E+09	5,825901E+09	7,034749E+09	1,286065E+10
-2970	2,912919E+09	2,912958E+09	3,517361E+09	3,517281E+09	5,825877E+09	7,034642E+09	1,286052E+10
-2969	2,912796E+09	2,912854E+09	3,517326E+09	3,517370E+09	5,825650E+09	7,034696E+09	1,286035E+10
-2968	2,912941E+09	2,912880E+09	3,517314E+09	3,517379E+09	5,825821E+09	7,034693E+09	1,286051E+10
-2967	2,912822E+09	2,912833E+09	3,517362E+09	3,517248E+09	5,825655E+09	7,034611E+09	1,286027E+10
-2966	2,912811E+09	2,912807E+09	3,517305E+09	3,517354E+09	5,825618E+09	7,034659E+09	1,286028E+10
-2965	2,912939E+09	2,912880E+09	3,517302E+09	3,517309E+09	5,825819E+09	7,034610E+09	1,286043E+10
-2964	2,912762E+09	2,912832E+09	3,517330E+09	3,517285E+09	5,825594E+09	7,034615E+09	1,286021E+10
-2963	2,912839E+09	2,912862E+09	3,517322E+09	3,517376E+09	5,825701E+09	7,034698E+09	1,286040E+10
-2962	2,912891E+09	2,912918E+09	3,517358E+09	3,517263E+09	5,825810E+09	7,034621E+09	1,286043E+10
-2961	2,912795E+09	2,912837E+09	3,517353E+09	3,517321E+09	5,825632E+09	7,034674E+09	1,286031E+10
-2960	2,912973E+09	2,912904E+09	3,517340E+09	3,517394E+09	5,825877E+09	7,034735E+09	1,286061E+10
-2959	2,912917E+09	2,912939E+09	3,517370E+09	3,517292E+09	5,825856E+09	7,034662E+09	1,286052E+10
-2958	2,912883E+09	2,912940E+09	3,517303E+09	3,517392E+09	5,825824E+09	7,034695E+09	1,286052E+10
-2957	2,913066E+09	2,913026E+09	3,517310E+09	3,517368E+09	5,826092E+09	7,034678E+09	1,286077E+10
-2956	2,912939E+09	2,912979E+09	3,517362E+09	3,517282E+09	5,825917E+09	7,034643E+09	1,286056E+10
-2955	2,912992E+09	2,912980E+09	3,517355E+09	3,517362E+09	5,825972E+09	7,034717E+09	1,286069E+10
-2954	2,913067E+09	2,913042E+09	3,517375E+09	3,517291E+09	5,826109E+09	7,034666E+09	1,286078E+10
-2953	2,912899E+09	2,912949E+09	3,517360E+09	3,517324E+09	5,825848E+09	7,034683E+09	1,286053E+10
-2952	2,912986E+09	2,912971E+09	3,517335E+09	3,517415E+09	5,825957E+09	7,034750E+09	1,286071E+10

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	2,912931E+09	2,912968E+09	3,517365E+09	3,517300E+09	5,825899E+09	7,034665E+09	1,286056E+10
-2950	2,912829E+09	2,912882E+09	3,517310E+09	3,517342E+09	5,825711E+09	7,034652E+09	1,286036E+10
-2949	2,913000E+09	2,912908E+09	3,517313E+09	3,517354E+09	5,825908E+09	7,034667E+09	1,286058E+10
-2948	2,912871E+09	2,912854E+09	3,517343E+09	3,517257E+09	5,825725E+09	7,034600E+09	1,286033E+10
-2947	2,912841E+09	2,912859E+09	3,517301E+09	3,517344E+09	5,825700E+09	7,034646E+09	1,286035E+10
-2946	2,912948E+09	2,912948E+09	3,517311E+09	3,517310E+09	5,825896E+09	7,034621E+09	1,286052E+10
-2945	2,912796E+09	2,912865E+09	3,517324E+09	3,517281E+09	5,825661E+09	7,034605E+09	1,286027E+10
-2944	2,912890E+09	2,912890E+09	3,517332E+09	3,517368E+09	5,825780E+09	7,034700E+09	1,286048E+10
-2943	2,912940E+09	2,912935E+09	3,517378E+09	3,517282E+09	5,825875E+09	7,034660E+09	1,286053E+10
-2942	2,912842E+09	2,912894E+09	3,517329E+09	3,517321E+09	5,825736E+09	7,034650E+09	1,286039E+10
-2941	2,913030E+09	2,912976E+09	3,517323E+09	3,517405E+09	5,826007E+09	7,034728E+09	1,286073E+10
-2940	2,912968E+09	2,912987E+09	3,517351E+09	3,517308E+09	5,825955E+09	7,034659E+09	1,286061E+10
-2939	2,912933E+09	2,912991E+09	3,517323E+09	3,517358E+09	5,825924E+09	7,034681E+09	1,286061E+10
-2938	2,913112E+09	2,913078E+09	3,517349E+09	3,517341E+09	5,826190E+09	7,034690E+09	1,286088E+10
-2937	2,912994E+09	2,912997E+09	3,517366E+09	3,517270E+09	5,825991E+09	7,034636E+09	1,286063E+10
-2936	2,913027E+09	2,913016E+09	3,517351E+09	3,517375E+09	5,826043E+09	7,034726E+09	1,286077E+10
-2935	2,913074E+09	2,913073E+09	3,517368E+09	3,517335E+09	5,826147E+09	7,034703E+09	1,286085E+10
-2934	2,912905E+09	2,912992E+09	3,517323E+09	3,517328E+09	5,825898E+09	7,034651E+09	1,286055E+10
-2933	2,913026E+09	2,913001E+09	3,517324E+09	3,517403E+09	5,826026E+09	7,034727E+09	1,286075E+10
-2932	2,912986E+09	2,912964E+09	3,517354E+09	3,517289E+09	5,825949E+09	7,034643E+09	1,286059E+10
-2931	2,912887E+09	2,912905E+09	3,517318E+09	3,517304E+09	5,825792E+09	7,034622E+09	1,286041E+10
-2930	2,913032E+09	2,912968E+09	3,517319E+09	3,517343E+09	5,826001E+09	7,034662E+09	1,286066E+10
-2929	2,912900E+09	2,912908E+09	3,517322E+09	3,517262E+09	5,825808E+09	7,034585E+09	1,286039E+10
-2928	2,912863E+09	2,912917E+09	3,517305E+09	3,517347E+09	5,825780E+09	7,034652E+09	1,286043E+10
-2927	2,912961E+09	2,912979E+09	3,517343E+09	3,517324E+09	5,825939E+09	7,034667E+09	1,286061E+10
-2926	2,912830E+09	2,912900E+09	3,517335E+09	3,517267E+09	5,825730E+09	7,034602E+09	1,286033E+10
-2925	2,912954E+09	2,912918E+09	3,517344E+09	3,517370E+09	5,825872E+09	7,034714E+09	1,286059E+10
-2924	2,912993E+09	2,912957E+09	3,517361E+09	3,517318E+09	5,825950E+09	7,034678E+09	1,286063E+10
-2923	2,912893E+09	2,912951E+09	3,517313E+09	3,517323E+09	5,825844E+09	7,034635E+09	1,286048E+10
-2922	2,913068E+09	2,913045E+09	3,517314E+09	3,517396E+09	5,826113E+09	7,034710E+09	1,286082E+10
-2921	2,913028E+09	2,913027E+09	3,517335E+09	3,517285E+09	5,826055E+09	7,034620E+09	1,286068E+10
-2920	2,912999E+09	2,913029E+09	3,517333E+09	3,517325E+09	5,826029E+09	7,034658E+09	1,286069E+10
-2919	2,913147E+09	2,913108E+09	3,517374E+09	3,517346E+09	5,826255E+09	7,034720E+09	1,286098E+10
-2918	2,913016E+09	2,913059E+09	3,517355E+09	3,517274E+09	5,826075E+09	7,034629E+09	1,286070E+10
-2917	2,913052E+09	2,913071E+09	3,517344E+09	3,517396E+09	5,826123E+09	7,034740E+09	1,286086E+10
-2916	2,913093E+09	2,913094E+09	3,517355E+09	3,517365E+09	5,826187E+09	7,034720E+09	1,286091E+10
-2915	2,912943E+09	2,913013E+09	3,517331E+09	3,517302E+09	5,825956E+09	7,034632E+09	1,286059E+10
-2914	2,913070E+09	2,913025E+09	3,517340E+09	3,517376E+09	5,826094E+09	7,034716E+09	1,286081E+10
-2913	2,913043E+09	2,912976E+09	3,517337E+09	3,517276E+09	5,826019E+09	7,034613E+09	1,286063E+10
-2912	2,912925E+09	2,912949E+09	3,517304E+09	3,517300E+09	5,825874E+09	7,034604E+09	1,286048E+10
-2911	2,913036E+09	2,913017E+09	3,517319E+09	3,517366E+09	5,826053E+09	7,034685E+09	1,286074E+10
-2910	2,912908E+09	2,912965E+09	3,517309E+09	3,517252E+09	5,825873E+09	7,034561E+09	1,286043E+10
-2909	2,912903E+09	2,912952E+09	3,517321E+09	3,517337E+09	5,825855E+09	7,034658E+09	1,286051E+10
-2908	2,913012E+09	2,912981E+09	3,517355E+09	3,517333E+09	5,825993E+09	7,034688E+09	1,286068E+10
-2907	2,912889E+09	2,912927E+09	3,517346E+09	3,517254E+09	5,825816E+09	7,034600E+09	1,286042E+10
-2906	2,913003E+09	2,912979E+09	3,517342E+09	3,517381E+09	5,825982E+09	7,034723E+09	1,286070E+10
-2905	2,913048E+09	2,913009E+09	3,517323E+09	3,517329E+09	5,826056E+09	7,034652E+09	1,286071E+10
-2904	2,912941E+09	2,913016E+09	3,517302E+09	3,517311E+09	5,825957E+09	7,034613E+09	1,286057E+10
-2903	2,913104E+09	2,913095E+09	3,517335E+09	3,517388E+09	5,826199E+09	7,034724E+09	1,286092E+10

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	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2902	2,913072E+09	2,913079E+09	3,517341E+09	3,517255E+09	5,826152E+09	7,034596E+09	1,286075E+10
-2901	2,913053E+09	2,913075E+09	3,517349E+09	3,517327E+09	5,826128E+09	7,034676E+09	1,286080E+10
-2900	2,913172E+09	2,913137E+09	3,517366E+09	3,517385E+09	5,826309E+09	7,034751E+09	1,286106E+10
-2899	2,913038E+09	2,913102E+09	3,517348E+09	3,517283E+09	5,826141E+09	7,034631E+09	1,286077E+10
-2898	2,913075E+09	2,913111E+09	3,517342E+09	3,517395E+09	5,826186E+09	7,034738E+09	1,286092E+10
-2897	2,913145E+09	2,913100E+09	3,517335E+09	3,517349E+09	5,826245E+09	7,034684E+09	1,286093E+10
-2896	2,913007E+09	2,913031E+09	3,517328E+09	3,517270E+09	5,826039E+09	7,034598E+09	1,286064E+10
-2895	2,913105E+09	2,913055E+09	3,517344E+09	3,517374E+09	5,826160E+09	7,034718E+09	1,286088E+10
-2894	2,913064E+09	2,913043E+09	3,517316E+09	3,517267E+09	5,826107E+09	7,034582E+09	1,286069E+10
-2893	2,912950E+09	2,913013E+09	3,517305E+09	3,517306E+09	5,825962E+09	7,034612E+09	1,286057E+10
-2892	2,913042E+09	2,913047E+09	3,517332E+09	3,517384E+09	5,826089E+09	7,034716E+09	1,286080E+10
-2891	2,912941E+09	2,912993E+09	3,517341E+09	3,517234E+09	5,825935E+09	7,034576E+09	1,286051E+10
-2890	2,912945E+09	2,912972E+09	3,517348E+09	3,517329E+09	5,825917E+09	7,034677E+09	1,286059E+10
-2889	2,913069E+09	2,912992E+09	3,517335E+09	3,517349E+09	5,826061E+09	7,034684E+09	1,286075E+10
-2888	2,912943E+09	2,912973E+09	3,517315E+09	3,517266E+09	5,825916E+09	7,034581E+09	1,286050E+10
-2887	2,913029E+09	2,913036E+09	3,517317E+09	3,517403E+09	5,826066E+09	7,034720E+09	1,286079E+10
-2886	2,913085E+09	2,913080E+09	3,517294E+09	3,517305E+09	5,826165E+09	7,034600E+09	1,286076E+10
-2885	2,913008E+09	2,913069E+09	3,517311E+09	3,517281E+09	5,826077E+09	7,034593E+09	1,286067E+10
-2884	2,913155E+09	2,913123E+09	3,517354E+09	3,517381E+09	5,826278E+09	7,034735E+09	1,286101E+10
-2883	2,913123E+09	2,913129E+09	3,517362E+09	3,517241E+09	5,826252E+09	7,034603E+09	1,286085E+10
-2882	2,913082E+09	2,913137E+09	3,517362E+09	3,517342E+09	5,826218E+09	7,034704E+09	1,286092E+10
-2881	2,913204E+09	2,913173E+09	3,517346E+09	3,517411E+09	5,826377E+09	7,034757E+09	1,286113E+10
-2880	2,913078E+09	2,913135E+09	3,517345E+09	3,517281E+09	5,826212E+09	7,034626E+09	1,286084E+10
-2879	2,913110E+09	2,913130E+09	3,517353E+09	3,517395E+09	5,826240E+09	7,034748E+09	1,286099E+10
-2878	2,913193E+09	2,913127E+09	3,517322E+09	3,517320E+09	5,826320E+09	7,034642E+09	1,286096E+10
-2877	2,913061E+09	2,913071E+09	3,517322E+09	3,517265E+09	5,826132E+09	7,034587E+09	1,286072E+10
-2876	2,913121E+09	2,913094E+09	3,517329E+09	3,517396E+09	5,826215E+09	7,034725E+09	1,286094E+10
-2875	2,913077E+09	2,913096E+09	3,517310E+09	3,517258E+09	5,826173E+09	7,034568E+09	1,286074E+10
-2874	2,912966E+09	2,913055E+09	3,517323E+09	3,517299E+09	5,826021E+09	7,034622E+09	1,286064E+10
-2873	2,913083E+09	2,913049E+09	3,517329E+09	3,517375E+09	5,826132E+09	7,034704E+09	1,286084E+10
-2872	2,912997E+09	2,913005E+09	3,517348E+09	3,517223E+09	5,826002E+09	7,034571E+09	1,286057E+10
-2871	2,912984E+09	2,913005E+09	3,517344E+09	3,517351E+09	5,825989E+09	7,034696E+09	1,286068E+10
-2870	2,913105E+09	2,913055E+09	3,517296E+09	3,517352E+09	5,826161E+09	7,034648E+09	1,286081E+10
-2869	2,912995E+09	2,913046E+09	3,517296E+09	3,517270E+09	5,826042E+09	7,034566E+09	1,286061E+10
-2868	2,913066E+09	2,913086E+09	3,517318E+09	3,517399E+09	5,826151E+09	7,034717E+09	1,286087E+10
-2867	2,913140E+09	2,913133E+09	3,517321E+09	3,517265E+09	5,826273E+09	7,034586E+09	1,286086E+10
-2866	2,913063E+09	2,913115E+09	3,517352E+09	3,517264E+09	5,826178E+09	7,034616E+09	1,286079E+10
-2865	2,913201E+09	2,913152E+09	3,517354E+09	3,517397E+09	5,826352E+09	7,034751E+09	1,286110E+10
-2864	2,913160E+09	2,913176E+09	3,517355E+09	3,517266E+09	5,826336E+09	7,034622E+09	1,286096E+10
-2863	2,913098E+09	2,913178E+09	3,517352E+09	3,517377E+09	5,826275E+09	7,034728E+09	1,286100E+10
-2862	2,913237E+09	2,913211E+09	3,517320E+09	3,517400E+09	5,826448E+09	7,034719E+09	1,286117E+10
-2861	2,913149E+09	2,913162E+09	3,517337E+09	3,517262E+09	5,826312E+09	7,034599E+09	1,286091E+10
-2860	2,913158E+09	2,913146E+09	3,517348E+09	3,517385E+09	5,826304E+09	7,034733E+09	1,286104E+10
-2859	2,913238E+09	2,913180E+09	3,517319E+09	3,517297E+09	5,826418E+09	7,034616E+09	1,286103E+10
-2858	2,913082E+09	2,913135E+09	3,517327E+09	3,517262E+09	5,826217E+09	7,034588E+09	1,286081E+10
-2857	2,913130E+09	2,913132E+09	3,517319E+09	3,517403E+09	5,826262E+09	7,034722E+09	1,286098E+10
-2856	2,913101E+09	2,913126E+09	3,517328E+09	3,517250E+09	5,826226E+09	7,034578E+09	1,286080E+10
-2855	2,912986E+09	2,913065E+09	3,517348E+09	3,517307E+09	5,826051E+09	7,034655E+09	1,286071E+10
-2854	2,913123E+09	2,913064E+09	3,517321E+09	3,517369E+09	5,826187E+09	7,034690E+09	1,286088E+10

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							
-2853	2,913056E+09	2,913038E+09	3,517326E+09	3,517241E+09	5,826094E+09	7,034567E+09	1,286066E+10
-2852	2,913015E+09	2,913047E+09	3,517310E+09	3,517377E+09	5,826062E+09	7,034687E+09	1,286075E+10
-2851	2,913149E+09	2,913121E+09	3,517275E+09	3,517332E+09	5,826270E+09	7,034607E+09	1,286088E+10
-2850	2,913048E+09	2,913108E+09	3,517310E+09	3,517239E+09	5,826156E+09	7,034549E+09	1,286070E+10
-2849	2,913128E+09	2,913117E+09	3,517327E+09	3,517372E+09	5,826245E+09	7,034699E+09	1,286094E+10
-2848	2,913205E+09	2,913173E+09	3,517347E+09	3,517249E+09	5,826378E+09	7,034596E+09	1,286097E+10
-2847	2,913095E+09	2,913167E+09	3,517370E+09	3,517297E+09	5,826262E+09	7,034667E+09	1,286093E+10
-2846	2,913225E+09	2,913213E+09	3,517335E+09	3,517418E+09	5,826438E+09	7,034753E+09	1,286119E+10
-2845	2,913204E+09	2,913232E+09	3,517343E+09	3,517293E+09	5,826436E+09	7,034637E+09	1,286107E+10
-2844	2,913134E+09	2,913207E+09	3,517346E+09	3,517389E+09	5,826341E+09	7,034735E+09	1,286108E+10
-2843	2,913295E+09	2,913241E+09	3,517320E+09	3,517362E+09	5,826536E+09	7,034683E+09	1,286122E+10
-2842	2,913208E+09	2,913199E+09	3,517348E+09	3,517238E+09	5,826407E+09	7,034586E+09	1,286099E+10
-2841	2,913197E+09	2,913176E+09	3,517325E+09	3,517381E+09	5,826373E+09	7,034706E+09	1,286108E+10
-2840	2,913258E+09	2,913227E+09	3,517310E+09	3,517297E+09	5,826485E+09	7,034607E+09	1,286109E+10
-2839	2,913081E+09	2,913175E+09	3,517333E+09	3,517280E+09	5,826257E+09	7,034613E+09	1,286087E+10
-2838	2,913143E+09	2,913154E+09	3,517315E+09	3,517385E+09	5,826296E+09	7,034700E+09	1,286100E+10
-2837	2,913154E+09	2,913138E+09	3,517332E+09	3,517247E+09	5,826292E+09	7,034579E+09	1,286087E+10
-2836	2,913028E+09	2,913071E+09	3,517342E+09	3,517318E+09	5,826099E+09	7,034660E+09	1,286076E+10
-2835	2,913171E+09	2,913110E+09	3,517302E+09	3,517361E+09	5,826281E+09	7,034663E+09	1,286094E+10
-2834	2,913101E+09	2,913106E+09	3,517316E+09	3,517241E+09	5,826208E+09	7,034558E+09	1,286077E+10
-2833	2,913055E+09	2,913098E+09	3,517293E+09	3,517370E+09	5,826153E+09	7,034663E+09	1,286082E+10
-2832	2,913201E+09	2,913173E+09	3,517297E+09	3,517306E+09	5,826373E+09	7,034603E+09	1,286098E+10
-2831	2,913090E+09	2,913149E+09	3,517348E+09	3,517236E+09	5,826239E+09	7,034584E+09	1,286082E+10
-2830	2,913167E+09	2,913159E+09	3,517336E+09	3,517369E+09	5,826326E+09	7,034705E+09	1,286103E+10
-2829	2,913256E+09	2,913227E+09	3,517339E+09	3,517287E+09	5,826483E+09	7,034625E+09	1,286111E+10
-2828	2,913115E+09	2,913208E+09	3,517348E+09	3,517342E+09	5,826323E+09	7,034690E+09	1,286101E+10
-2827	2,913265E+09	2,913263E+09	3,517315E+09	3,517414E+09	5,826528E+09	7,034729E+09	1,286126E+10
-2826	2,913267E+09	2,913268E+09	3,517342E+09	3,517268E+09	5,826535E+09	7,034610E+09	1,286114E+10
-2825	2,913201E+09	2,913222E+09	3,517331E+09	3,517358E+09	5,826422E+09	7,034688E+09	1,286111E+10
-2824	2,913361E+09	2,913275E+09	3,517324E+09	3,517334E+09	5,826636E+09	7,034658E+09	1,286129E+10
-2823	2,913231E+09	2,913253E+09	3,517352E+09	3,517247E+09	5,826484E+09	7,034599E+09	1,286108E+10
-2822	2,913203E+09	2,913233E+09	3,517313E+09	3,517378E+09	5,826436E+09	7,034691E+09	1,286113E+10
-2821	2,913281E+09	2,913272E+09	3,517312E+09	3,517309E+09	5,826553E+09	7,034620E+09	1,286117E+10
-2820	2,913094E+09	2,913185E+09	3,517350E+09	3,517290E+09	5,826280E+09	7,034640E+09	1,286092E+10
-2819	2,913184E+09	2,913165E+09	3,517327E+09	3,517364E+09	5,826349E+09	7,034692E+09	1,286104E+10
-2818	2,913208E+09	2,913159E+09	3,517340E+09	3,517246E+09	5,826366E+09	7,034586E+09	1,286095E+10
-2817	2,913070E+09	2,913101E+09	3,517304E+09	3,517331E+09	5,826171E+09	7,034636E+09	1,286081E+10
-2816	2,913213E+09	2,913161E+09	3,517278E+09	3,517361E+09	5,826374E+09	7,034639E+09	1,286101E+10
-2815	2,913130E+09	2,913166E+09	3,517315E+09	3,517244E+09	5,826295E+09	7,034559E+09	1,286085E+10
-2814	2,913096E+09	2,913145E+09	3,517295E+09	3,517334E+09	5,826241E+09	7,034629E+09	1,286087E+10
-2813	2,913266E+09	2,913217E+09	3,517312E+09	3,517297E+09	5,826482E+09	7,034609E+09	1,286109E+10
-2812	2,913132E+09	2,913186E+09	3,517364E+09	3,517257E+09	5,826318E+09	7,034621E+09	1,286094E+10
-2811	2,913204E+09	2,913218E+09	3,517332E+09	3,517375E+09	5,826422E+09	7,034706E+09	1,286113E+10
-2810	2,913296E+09	2,913290E+09	3,517339E+09	3,517305E+09	5,826586E+09	7,034644E+09	1,286123E+10
-2809	2,913161E+09	2,913244E+09	3,517328E+09	3,517345E+09	5,826405E+09	7,034674E+09	1,286108E+10
-2808	2,913328E+09	2,913290E+09	3,517323E+09	3,517387E+09	5,826618E+09	7,034710E+09	1,286133E+10
-2807	2,913322E+09	2,913300E+09	3,517358E+09	3,517257E+09	5,826622E+09	7,034616E+09	1,286124E+10
-2806	2,913246E+09	2,913258E+09	3,517321E+09	3,517336E+09	5,826504E+09	7,034656E+09	1,286116E+10
-2805	2,913399E+09	2,913332E+09	3,517306E+09	3,517349E+09	5,826731E+09	7,034655E+09	1,286139E+10

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							
-2804	2,913234E+09	2,913296E+09	3,517343E+09	3,517272E+09	5,826530E+09	7,034615E+09	1,286115E+10
-2803	2,913215E+09	2,913274E+09	3,517313E+09	3,517362E+09	5,826489E+09	7,034675E+09	1,286116E+10
-2802	2,913319E+09	2,913295E+09	3,517332E+09	3,517294E+09	5,826613E+09	7,034625E+09	1,286124E+10
-2801	2,913143E+09	2,913183E+09	3,517343E+09	3,517282E+09	5,826326E+09	7,034625E+09	1,286095E+10
-2800	2,913240E+09	2,913183E+09	3,517326E+09	3,517360E+09	5,826423E+09	7,034686E+09	1,286111E+10
-2799	2,913237E+09	2,913209E+09	3,517330E+09	3,517267E+09	5,826446E+09	7,034597E+09	1,286104E+10
-2798	2,913094E+09	2,913162E+09	3,517280E+09	3,517325E+09	5,826256E+09	7,034605E+09	1,286086E+10
-2797	2,913257E+09	2,913225E+09	3,517272E+09	3,517359E+09	5,826482E+09	7,034631E+09	1,286111E+10
-2796	2,913160E+09	2,913201E+09	3,517335E+09	3,517238E+09	5,826361E+09	7,034573E+09	1,286093E+10
-2795	2,913143E+09	2,913184E+09	3,517319E+09	3,517308E+09	5,826327E+09	7,034627E+09	1,286095E+10
-2794	2,913317E+09	2,913258E+09	3,517331E+09	3,517301E+09	5,826575E+09	7,034632E+09	1,286121E+10
-2793	2,913166E+09	2,913222E+09	3,517340E+09	3,517285E+09	5,826388E+09	7,034625E+09	1,286101E+10
-2792	2,913249E+09	2,913260E+09	3,517319E+09	3,517387E+09	5,826509E+09	7,034707E+09	1,286122E+10
-2791	2,913337E+09	2,913333E+09	3,517336E+09	3,517312E+09	5,826669E+09	7,034647E+09	1,286132E+10
-2790	2,913223E+09	2,913277E+09	3,517314E+09	3,517310E+09	5,826500E+09	7,034625E+09	1,286112E+10
-2789	2,913409E+09	2,913333E+09	3,517312E+09	3,517370E+09	5,826742E+09	7,034682E+09	1,286142E+10
-2788	2,913363E+09	2,913347E+09	3,517357E+09	3,517262E+09	5,826710E+09	7,034619E+09	1,286133E+10
-2787	2,913272E+09	2,913330E+09	3,517316E+09	3,517325E+09	5,826602E+09	7,034641E+09	1,286124E+10
-2786	2,913417E+09	2,913396E+09	3,517321E+09	3,517352E+09	5,826814E+09	7,034674E+09	1,286149E+10
-2785	2,913251E+09	2,913323E+09	3,517348E+09	3,517278E+09	5,826575E+09	7,034626E+09	1,286120E+10
-2784	2,913255E+09	2,913279E+09	3,517340E+09	3,517348E+09	5,826534E+09	7,034688E+09	1,286122E+10
-2783	2,913353E+09	2,913305E+09	3,517351E+09	3,517306E+09	5,826658E+09	7,034657E+09	1,286132E+10
-2782	2,913181E+09	2,913202E+09	3,517319E+09	3,517282E+09	5,826384E+09	7,034601E+09	1,286098E+10
-2781	2,913280E+09	2,913232E+09	3,517283E+09	3,517382E+09	5,826512E+09	7,034665E+09	1,286118E+10
-2780	2,913255E+09	2,913257E+09	3,517307E+09	3,517282E+09	5,826512E+09	7,034590E+09	1,286110E+10
-2779	2,913128E+09	2,913212E+09	3,517274E+09	3,517284E+09	5,826340E+09	7,034558E+09	1,286090E+10
-2778	2,913308E+09	2,913267E+09	3,517300E+09	3,517321E+09	5,826574E+09	7,034622E+09	1,286120E+10
-2777	2,913214E+09	2,913225E+09	3,517344E+09	3,517227E+09	5,826439E+09	7,034571E+09	1,286101E+10
-2776	2,913193E+09	2,913217E+09	3,517336E+09	3,517311E+09	5,826410E+09	7,034647E+09	1,286106E+10
-2775	2,913341E+09	2,913318E+09	3,517336E+09	3,517338E+09	5,826659E+09	7,034675E+09	1,286133E+10
-2774	2,913201E+09	2,913272E+09	3,517320E+09	3,517294E+09	5,826472E+09	7,034614E+09	1,286109E+10
-2773	2,913309E+09	2,913311E+09	3,517302E+09	3,517394E+09	5,826621E+09	7,034696E+09	1,286132E+10
-2772	2,913390E+09	2,913365E+09	3,517341E+09	3,517307E+09	5,826756E+09	7,034648E+09	1,286140E+10
-2771	2,913286E+09	2,913325E+09	3,517317E+09	3,517276E+09	5,826611E+09	7,034593E+09	1,286120E+10
-2770	2,913460E+09	2,913395E+09	3,517319E+09	3,517363E+09	5,826855E+09	7,034682E+09	1,286154E+10
-2769	2,913386E+09	2,913400E+09	3,517336E+09	3,517278E+09	5,826786E+09	7,034614E+09	1,286140E+10
-2768	2,913296E+09	2,913370E+09	3,517325E+09	3,517328E+09	5,826666E+09	7,034653E+09	1,286132E+10
-2767	2,913432E+09	2,913426E+09	3,517342E+09	3,517358E+09	5,826858E+09	7,034700E+09	1,286156E+10
-2766	2,913290E+09	2,913328E+09	3,517349E+09	3,517261E+09	5,826617E+09	7,034611E+09	1,286123E+10
-2765	2,913316E+09	2,913296E+09	3,517326E+09	3,517355E+09	5,826612E+09	7,034681E+09	1,286129E+10
-2764	2,913383E+09	2,913328E+09	3,517333E+09	3,517323E+09	5,826711E+09	7,034656E+09	1,286137E+10
-2763	2,913211E+09	2,913262E+09	3,517291E+09	3,517269E+09	5,826473E+09	7,034560E+09	1,286103E+10
-2762	2,913314E+09	2,913295E+09	3,517279E+09	3,517364E+09	5,826609E+09	7,034643E+09	1,286125E+10
-2761	2,913285E+09	2,913293E+09	3,517307E+09	3,517264E+09	5,826578E+09	7,034570E+09	1,286115E+10
-2760	2,913180E+09	2,913235E+09	3,517313E+09	3,517256E+09	5,826414E+09	7,034569E+09	1,286098E+10
-2759	2,913339E+09	2,913298E+09	3,517335E+09	3,517328E+09	5,826637E+09	7,034663E+09	1,286130E+10
-2758	2,913247E+09	2,913260E+09	3,517334E+09	3,517244E+09	5,826507E+09	7,034579E+09	1,286109E+10
-2757	2,913234E+09	2,913273E+09	3,517300E+09	3,517352E+09	5,826507E+09	7,034652E+09	1,286116E+10
-2756	2,913368E+09	2,913362E+09	3,517316E+09	3,517367E+09	5,826730E+09	7,034683E+09	1,286141E+10

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	2,913259E+09	2,913324E+09	3,517305E+09	3,517264E+09	5,826582E+09	7,034569E+09	1,286115E+10
-2754	2,913389E+09	2,913361E+09	3,517310E+09	3,517358E+09	5,826749E+09	7,034669E+09	1,286142E+10
-2753	2,913457E+09	2,913408E+09	3,517336E+09	3,517292E+09	5,826865E+09	7,034628E+09	1,286149E+10
-2752	2,913341E+09	2,913380E+09	3,517332E+09	3,517265E+09	5,826722E+09	7,034597E+09	1,286132E+10
-2751	2,913471E+09	2,913468E+09	3,517338E+09	3,517381E+09	5,826939E+09	7,034719E+09	1,286166E+10
-2750	2,913404E+09	2,913446E+09	3,517339E+09	3,517284E+09	5,826850E+09	7,034623E+09	1,286147E+10
-2749	2,913330E+09	2,913399E+09	3,517326E+09	3,517339E+09	5,826729E+09	7,034665E+09	1,286139E+10
-2748	2,913461E+09	2,913428E+09	3,517356E+09	3,517370E+09	5,826889E+09	7,034726E+09	1,286162E+10
-2747	2,913338E+09	2,913341E+09	3,517337E+09	3,517244E+09	5,826679E+09	7,034581E+09	1,286126E+10
-2746	2,913359E+09	2,913334E+09	3,517302E+09	3,517355E+09	5,826693E+09	7,034657E+09	1,286135E+10
-2745	2,913409E+09	2,913369E+09	3,517289E+09	3,517331E+09	5,826778E+09	7,034621E+09	1,286140E+10
-2744	2,913247E+09	2,913301E+09	3,517288E+09	3,517246E+09	5,826548E+09	7,034534E+09	1,286108E+10
-2743	2,913337E+09	2,913340E+09	3,517303E+09	3,517341E+09	5,826677E+09	7,034644E+09	1,286132E+10
-2742	2,913329E+09	2,913317E+09	3,517317E+09	3,517237E+09	5,826646E+09	7,034554E+09	1,286120E+10
-2741	2,913232E+09	2,913271E+09	3,517312E+09	3,517270E+09	5,826503E+09	7,034582E+09	1,286109E+10
-2740	2,913359E+09	2,913339E+09	3,517335E+09	3,517366E+09	5,826698E+09	7,034701E+09	1,286140E+10
-2739	2,913277E+09	2,913323E+09	3,517316E+09	3,517255E+09	5,826600E+09	7,034572E+09	1,286117E+10
-2738	2,913284E+09	2,913336E+09	3,517295E+09	3,517354E+09	5,826620E+09	7,034649E+09	1,286127E+10
-2737	2,913424E+09	2,913398E+09	3,517307E+09	3,517356E+09	5,826822E+09	7,034664E+09	1,286149E+10
-2736	2,913341E+09	2,913355E+09	3,517328E+09	3,517232E+09	5,826696E+09	7,034560E+09	1,286126E+10
-2735	2,913441E+09	2,913415E+09	3,517333E+09	3,517350E+09	5,826855E+09	7,034682E+09	1,286154E+10
-2734	2,913495E+09	2,913462E+09	3,517323E+09	3,517297E+09	5,826957E+09	7,034621E+09	1,286158E+10
-2733	2,913376E+09	2,913444E+09	3,517313E+09	3,517296E+09	5,826820E+09	7,034609E+09	1,286143E+10
-2732	2,913478E+09	2,913500E+09	3,517342E+09	3,517399E+09	5,826979E+09	7,034741E+09	1,286172E+10
-2731	2,913440E+09	2,913472E+09	3,517339E+09	3,517263E+09	5,826912E+09	7,034601E+09	1,286151E+10
-2730	2,913393E+09	2,913417E+09	3,517329E+09	3,517321E+09	5,826811E+09	7,034650E+09	1,286146E+10
-2729	2,913509E+09	2,913440E+09	3,517332E+09	3,517370E+09	5,826948E+09	7,034702E+09	1,286165E+10
-2728	2,913389E+09	2,913377E+09	3,517324E+09	3,517238E+09	5,826766E+09	7,034563E+09	1,286133E+10
-2727	2,913375E+09	2,913398E+09	3,517297E+09	3,517355E+09	5,826772E+09	7,034652E+09	1,286142E+10
-2726	2,913431E+09	2,913416E+09	3,517280E+09	3,517315E+09	5,826847E+09	7,034595E+09	1,286144E+10
-2725	2,913288E+09	2,913342E+09	3,517294E+09	3,517238E+09	5,826631E+09	7,034532E+09	1,286116E+10
-2724	2,913358E+09	2,913358E+09	3,517335E+09	3,517343E+09	5,826715E+09	7,034678E+09	1,286139E+10
-2723	2,913365E+09	2,913351E+09	3,517322E+09	3,517237E+09	5,826715E+09	7,034559E+09	1,286127E+10
-2722	2,913270E+09	2,913320E+09	3,517302E+09	3,517293E+09	5,826589E+09	7,034595E+09	1,286118E+10
-2721	2,913387E+09	2,913377E+09	3,517303E+09	3,517395E+09	5,826765E+09	7,034698E+09	1,286146E+10
-2720	2,913338E+09	2,913357E+09	3,517312E+09	3,517244E+09	5,826695E+09	7,034556E+09	1,286125E+10
-2719	2,913340E+09	2,913384E+09	3,517308E+09	3,517330E+09	5,826725E+09	7,034638E+09	1,286136E+10
-2718	2,913500E+09	2,913436E+09	3,517304E+09	3,517328E+09	5,826936E+09	7,034632E+09	1,286157E+10
-2717	2,913411E+09	2,913415E+09	3,517318E+09	3,517232E+09	5,826826E+09	7,034550E+09	1,286138E+10
-2716	2,913461E+09	2,913479E+09	3,517340E+09	3,517370E+09	5,826940E+09	7,034710E+09	1,286165E+10
-2715	2,913519E+09	2,913530E+09	3,517318E+09	3,517299E+09	5,827049E+09	7,034617E+09	1,286167E+10
-2714	2,913409E+09	2,913495E+09	3,517324E+09	3,517299E+09	5,826903E+09	7,034623E+09	1,286153E+10
-2713	2,913513E+09	2,913514E+09	3,517345E+09	3,517401E+09	5,827027E+09	7,034746E+09	1,286177E+10
-2712	2,913506E+09	2,913473E+09	3,517354E+09	3,517248E+09	5,826979E+09	7,034602E+09	1,286158E+10
-2711	2,913432E+09	2,913451E+09	3,517327E+09	3,517323E+09	5,826883E+09	7,034650E+09	1,286153E+10
-2710	2,913543E+09	2,913477E+09	3,517289E+09	3,517375E+09	5,827020E+09	7,034664E+09	1,286168E+10
-2709	2,913422E+09	2,913434E+09	3,517285E+09	3,517247E+09	5,826855E+09	7,034532E+09	1,286139E+10
-2708	2,913384E+09	2,913436E+09	3,517302E+09	3,517346E+09	5,826820E+09	7,034648E+09	1,286147E+10
-2707	2,913465E+09	2,913450E+09	3,517290E+09	3,517276E+09	5,826915E+09	7,034566E+09	1,286148E+10

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							
-2706	2,913341E+09	2,913374E+09	3,517317E+09	3,517224E+09	5,826714E+09	7,034541E+09	1,286126E+10
-2705	2,913387E+09	2,913380E+09	3,517334E+09	3,517358E+09	5,826767E+09	7,034692E+09	1,286146E+10
-2704	2,913408E+09	2,913387E+09	3,517327E+09	3,517253E+09	5,826795E+09	7,034580E+09	1,286138E+10
-2703	2,913297E+09	2,913380E+09	3,517304E+09	3,517308E+09	5,826677E+09	7,034612E+09	1,286129E+10
-2702	2,913435E+09	2,913414E+09	3,517286E+09	3,517389E+09	5,826849E+09	7,034675E+09	1,286152E+10
-2701	2,913415E+09	2,913402E+09	3,517304E+09	3,517235E+09	5,826817E+09	7,034540E+09	1,286136E+10
-2700	2,913394E+09	2,913418E+09	3,517324E+09	3,517318E+09	5,826812E+09	7,034642E+09	1,286145E+10
-2699	2,913549E+09	2,913495E+09	3,517298E+09	3,517314E+09	5,827044E+09	7,034612E+09	1,286166E+10
-2698	2,913454E+09	2,913491E+09	3,517310E+09	3,517246E+09	5,826944E+09	7,034556E+09	1,286150E+10
-2697	2,913475E+09	2,913528E+09	3,517326E+09	3,517390E+09	5,827003E+09	7,034716E+09	1,286172E+10
-2696	2,913565E+09	2,913560E+09	3,517332E+09	3,517292E+09	5,827125E+09	7,034624E+09	1,286175E+10
-2695	2,913454E+09	2,913524E+09	3,517343E+09	3,517285E+09	5,826978E+09	7,034629E+09	1,286161E+10
-2694	2,913575E+09	2,913524E+09	3,517332E+09	3,517390E+09	5,827099E+09	7,034722E+09	1,286182E+10
-2693	2,913568E+09	2,913514E+09	3,517324E+09	3,517257E+09	5,827082E+09	7,034582E+09	1,286166E+10
-2692	2,913450E+09	2,913502E+09	3,517316E+09	3,517333E+09	5,826951E+09	7,034649E+09	1,286160E+10
-2691	2,913562E+09	2,913540E+09	3,517274E+09	3,517358E+09	5,827102E+09	7,034632E+09	1,286173E+10
-2690	2,913454E+09	2,913488E+09	3,517298E+09	3,517228E+09	5,826941E+09	7,034527E+09	1,286147E+10
-2689	2,913407E+09	2,913452E+09	3,517325E+09	3,517333E+09	5,826859E+09	7,034658E+09	1,286152E+10
-2688	2,913516E+09	2,913456E+09	3,517326E+09	3,517264E+09	5,826972E+09	7,034590E+09	1,286156E+10
-2687	2,913364E+09	2,913408E+09	3,517333E+09	3,517242E+09	5,826772E+09	7,034575E+09	1,286135E+10
-2686	2,913416E+09	2,913410E+09	3,517303E+09	3,517387E+09	5,826827E+09	7,034689E+09	1,286152E+10
-2685	2,913452E+09	2,913430E+09	3,517287E+09	3,517274E+09	5,826882E+09	7,034561E+09	1,286144E+10
-2684	2,913332E+09	2,913416E+09	3,517298E+09	3,517301E+09	5,826748E+09	7,034599E+09	1,286135E+10
-2683	2,913501E+09	2,913457E+09	3,517275E+09	3,517347E+09	5,826958E+09	7,034622E+09	1,286158E+10
-2682	2,913489E+09	2,913460E+09	3,517305E+09	3,517212E+09	5,826950E+09	7,034518E+09	1,286147E+10
-2681	2,913434E+09	2,913475E+09	3,517322E+09	3,517321E+09	5,826909E+09	7,034643E+09	1,286155E+10
-2680	2,913591E+09	2,913557E+09	3,517311E+09	3,517318E+09	5,827148E+09	7,034629E+09	1,286178E+10
-2679	2,913473E+09	2,913562E+09	3,517334E+09	3,517257E+09	5,827035E+09	7,034591E+09	1,286163E+10
-2678	2,913513E+09	2,913558E+09	3,517329E+09	3,517391E+09	5,827070E+09	7,034720E+09	1,286179E+10
-2677	2,913629E+09	2,913584E+09	3,517333E+09	3,517295E+09	5,827213E+09	7,034628E+09	1,286184E+10
-2676	2,913501E+09	2,913540E+09	3,517352E+09	3,517291E+09	5,827040E+09	7,034643E+09	1,286168E+10
-2675	2,913619E+09	2,913564E+09	3,517302E+09	3,517384E+09	5,827183E+09	7,034687E+09	1,286187E+10
-2674	2,913609E+09	2,913579E+09	3,517294E+09	3,517264E+09	5,827187E+09	7,034558E+09	1,286175E+10
-2673	2,913466E+09	2,913543E+09	3,517299E+09	3,517327E+09	5,827008E+09	7,034626E+09	1,286163E+10
-2672	2,913603E+09	2,913568E+09	3,517297E+09	3,517325E+09	5,827171E+09	7,034622E+09	1,286179E+10
-2671	2,913489E+09	2,913521E+09	3,517336E+09	3,517204E+09	5,827010E+09	7,034541E+09	1,286155E+10
-2670	2,913444E+09	2,913462E+09	3,517328E+09	3,517331E+09	5,826906E+09	7,034659E+09	1,286156E+10
-2669	2,913554E+09	2,913494E+09	3,517310E+09	3,517294E+09	5,827048E+09	7,034604E+09	1,286165E+10
-2668	2,913377E+09	2,913447E+09	3,517323E+09	3,517271E+09	5,826824E+09	7,034594E+09	1,286142E+10
-2667	2,913444E+09	2,913457E+09	3,517275E+09	3,517383E+09	5,826902E+09	7,034658E+09	1,286156E+10
-2666	2,913510E+09	2,913484E+09	3,517280E+09	3,517260E+09	5,826994E+09	7,034540E+09	1,286153E+10
-2665	2,913385E+09	2,913445E+09	3,517303E+09	3,517278E+09	5,826830E+09	7,034582E+09	1,286141E+10
-2664	2,913571E+09	2,913496E+09	3,517296E+09	3,517321E+09	5,827067E+09	7,034618E+09	1,286168E+10
-2663	2,913526E+09	2,913533E+09	3,517320E+09	3,517214E+09	5,827058E+09	7,034535E+09	1,286159E+10
-2662	2,913461E+09	2,913529E+09	3,517306E+09	3,517341E+09	5,826990E+09	7,034646E+09	1,286164E+10
-2661	2,913630E+09	2,913610E+09	3,517301E+09	3,517336E+09	5,827240E+09	7,034638E+09	1,286188E+10
-2660	2,913507E+09	2,913589E+09	3,517353E+09	3,517261E+09	5,827096E+09	7,034614E+09	1,286171E+10
-2659	2,913575E+09	2,913582E+09	3,517324E+09	3,517372E+09	5,827157E+09	7,034696E+09	1,286185E+10
-2658	2,913702E+09	2,913627E+09	3,517321E+09	3,517291E+09	5,827329E+09	7,034612E+09	1,286194E+10

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							
-2657	2,913541E+09	2,913585E+09	3,517331E+09	3,517298E+09	5,827126E+09	7,034629E+09	1,286175E+10
-2656	2,913663E+09	2,913620E+09	3,517297E+09	3,517375E+09	5,827283E+09	7,034672E+09	1,286195E+10
-2655	2,913625E+09	2,913647E+09	3,517311E+09	3,517251E+09	5,827272E+09	7,034562E+09	1,286183E+10
-2654	2,913495E+09	2,913570E+09	3,517310E+09	3,517313E+09	5,827065E+09	7,034623E+09	1,286169E+10
-2653	2,913644E+09	2,913584E+09	3,517312E+09	3,517317E+09	5,827228E+09	7,034629E+09	1,286186E+10
-2652	2,913507E+09	2,913532E+09	3,517358E+09	3,517222E+09	5,827039E+09	7,034579E+09	1,286162E+10
-2651	2,913465E+09	2,913492E+09	3,517299E+09	3,517347E+09	5,826957E+09	7,034647E+09	1,286160E+10
-2650	2,913583E+09	2,913542E+09	3,517272E+09	3,517318E+09	5,827125E+09	7,034590E+09	1,286172E+10
-2649	2,913403E+09	2,913478E+09	3,517296E+09	3,517273E+09	5,826881E+09	7,034569E+09	1,286145E+10
-2648	2,913511E+09	2,913485E+09	3,517277E+09	3,517343E+09	5,826997E+09	7,034620E+09	1,286162E+10
-2647	2,913571E+09	2,913535E+09	3,517301E+09	3,517222E+09	5,827107E+09	7,034523E+09	1,286163E+10
-2646	2,913446E+09	2,913487E+09	3,517302E+09	3,517264E+09	5,826933E+09	7,034565E+09	1,286150E+10
-2645	2,913616E+09	2,913564E+09	3,517295E+09	3,517332E+09	5,827180E+09	7,034627E+09	1,286181E+10
-2644	2,913541E+09	2,913598E+09	3,517339E+09	3,517242E+09	5,827138E+09	7,034582E+09	1,286172E+10
-2643	2,913488E+09	2,913582E+09	3,517307E+09	3,517346E+09	5,827070E+09	7,034653E+09	1,286172E+10
-2642	2,913685E+09	2,913657E+09	3,517308E+09	3,517343E+09	5,827341E+09	7,034651E+09	1,286199E+10
-2641	2,913566E+09	2,913603E+09	3,517357E+09	3,517262E+09	5,827169E+09	7,034620E+09	1,286179E+10
-2640	2,913649E+09	2,913610E+09	3,517323E+09	3,517364E+09	5,827259E+09	7,034687E+09	1,286195E+10
-2639	2,913744E+09	2,913696E+09	3,517311E+09	3,517295E+09	5,827440E+09	7,034606E+09	1,286205E+10
-2638	2,913572E+09	2,913635E+09	3,517297E+09	3,517299E+09	5,827207E+09	7,034595E+09	1,286180E+10
-2637	2,913695E+09	2,913670E+09	3,517288E+09	3,517362E+09	5,827365E+09	7,034650E+09	1,286202E+10
-2636	2,913647E+09	2,913672E+09	3,517337E+09	3,517234E+09	5,827320E+09	7,034571E+09	1,286189E+10
-2635	2,913528E+09	2,913586E+09	3,517315E+09	3,517293E+09	5,827114E+09	7,034608E+09	1,286172E+10
-2634	2,913682E+09	2,913620E+09	3,517306E+09	3,517330E+09	5,827302E+09	7,034636E+09	1,286194E+10
-2633	2,913524E+09	2,913557E+09	3,517342E+09	3,517247E+09	5,827081E+09	7,034589E+09	1,286167E+10
-2632	2,913502E+09	2,913529E+09	3,517287E+09	3,517349E+09	5,827031E+09	7,034636E+09	1,286167E+10
-2631	2,913614E+09	2,913596E+09	3,517277E+09	3,517303E+09	5,827210E+09	7,034580E+09	1,286179E+10
-2630	2,913458E+09	2,913505E+09	3,517291E+09	3,517248E+09	5,826963E+09	7,034538E+09	1,286150E+10
-2629	2,913578E+09	2,913521E+09	3,517286E+09	3,517319E+09	5,827099E+09	7,034605E+09	1,286170E+10
-2628	2,913608E+09	2,913581E+09	3,517322E+09	3,517228E+09	5,827188E+09	7,034550E+09	1,286174E+10
-2627	2,913473E+09	2,913548E+09	3,517288E+09	3,517278E+09	5,827022E+09	7,034567E+09	1,286159E+10
-2626	2,913644E+09	2,913635E+09	3,517280E+09	3,517357E+09	5,827278E+09	7,034638E+09	1,286192E+10
-2625	2,913570E+09	2,913632E+09	3,517341E+09	3,517258E+09	5,827203E+09	7,034600E+09	1,286180E+10
-2624	2,913561E+09	2,913607E+09	3,517318E+09	3,517329E+09	5,827168E+09	7,034646E+09	1,286181E+10
-2623	2,913750E+09	2,913699E+09	3,517321E+09	3,517326E+09	5,827449E+09	7,034646E+09	1,286210E+10
-2622	2,913636E+09	2,913642E+09	3,517333E+09	3,517263E+09	5,827278E+09	7,034596E+09	1,286187E+10
-2621	2,913703E+09	2,913672E+09	3,517296E+09	3,517364E+09	5,827375E+09	7,034660E+09	1,286203E+10
-2620	2,913760E+09	2,913760E+09	3,517314E+09	3,517300E+09	5,827519E+09	7,034614E+09	1,286213E+10
-2619	2,913595E+09	2,913686E+09	3,517296E+09	3,517280E+09	5,827281E+09	7,034576E+09	1,286186E+10
-2618	2,913728E+09	2,913710E+09	3,517303E+09	3,517348E+09	5,827438E+09	7,034650E+09	1,286209E+10
-2617	2,913677E+09	2,913676E+09	3,517358E+09	3,517239E+09	5,827353E+09	7,034596E+09	1,286195E+10
-2616	2,913571E+09	2,913598E+09	3,517317E+09	3,517297E+09	5,827168E+09	7,034614E+09	1,286178E+10
-2615	2,913700E+09	2,913665E+09	3,517294E+09	3,517345E+09	5,827365E+09	7,034640E+09	1,286200E+10
-2614	2,913557E+09	2,913584E+09	3,517300E+09	3,517259E+09	5,827141E+09	7,034559E+09	1,286170E+10
-2613	2,913551E+09	2,913562E+09	3,517267E+09	3,517330E+09	5,827114E+09	7,034598E+09	1,286171E+10
-2612	2,913660E+09	2,913628E+09	3,517292E+09	3,517280E+09	5,827288E+09	7,034572E+09	1,286186E+10
-2611	2,913514E+09	2,913545E+09	3,517288E+09	3,517219E+09	5,827059E+09	7,034508E+09	1,286157E+10
-2610	2,913624E+09	2,913592E+09	3,517283E+09	3,517322E+09	5,827216E+09	7,034606E+09	1,286182E+10
-2609	2,913630E+09	2,913638E+09	3,517324E+09	3,517256E+09	5,827268E+09	7,034580E+09	1,286185E+10

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							
-2608	2,913508E+09	2,913605E+09	3,517299E+09	3,517290E+09	5,827112E+09	7,034589E+09	1,286170E+10
-2607	2,913678E+09	2,913695E+09	3,517305E+09	3,517359E+09	5,827372E+09	7,034664E+09	1,286204E+10
-2606	2,913635E+09	2,913649E+09	3,517338E+09	3,517255E+09	5,827284E+09	7,034593E+09	1,286188E+10
-2605	2,913640E+09	2,913634E+09	3,517315E+09	3,517321E+09	5,827274E+09	7,034635E+09	1,286191E+10
-2604	2,913800E+09	2,913743E+09	3,517316E+09	3,517335E+09	5,827543E+09	7,034652E+09	1,286219E+10
-2603	2,913672E+09	2,913704E+09	3,517293E+09	3,517264E+09	5,827377E+09	7,034557E+09	1,286193E+10
-2602	2,913736E+09	2,913747E+09	3,517271E+09	3,517361E+09	5,827483E+09	7,034632E+09	1,286212E+10
-2601	2,913786E+09	2,913791E+09	3,517322E+09	3,517289E+09	5,827577E+09	7,034612E+09	1,286219E+10
-2600	2,913648E+09	2,913706E+09	3,517320E+09	3,517251E+09	5,827354E+09	7,034571E+09	1,286192E+10
-2599	2,913764E+09	2,913742E+09	3,517329E+09	3,517333E+09	5,827507E+09	7,034662E+09	1,286217E+10
-2598	2,913715E+09	2,913694E+09	3,517341E+09	3,517256E+09	5,827409E+09	7,034597E+09	1,286201E+10
-2597	2,913606E+09	2,913635E+09	3,517297E+09	3,517313E+09	5,827241E+09	7,034610E+09	1,286185E+10
-2596	2,913715E+09	2,913704E+09	3,517291E+09	3,517360E+09	5,827419E+09	7,034651E+09	1,286207E+10
-2595	2,913592E+09	2,913622E+09	3,517284E+09	3,517242E+09	5,827215E+09	7,034525E+09	1,286174E+10
-2594	2,913605E+09	2,913608E+09	3,517265E+09	3,517307E+09	5,827214E+09	7,034572E+09	1,286179E+10
-2593	2,913704E+09	2,913654E+09	3,517308E+09	3,517277E+09	5,827358E+09	7,034584E+09	1,286194E+10
-2592	2,913561E+09	2,913595E+09	3,517294E+09	3,517221E+09	5,827156E+09	7,034516E+09	1,286167E+10
-2591	2,913636E+09	2,913663E+09	3,517288E+09	3,517333E+09	5,827299E+09	7,034622E+09	1,286192E+10
-2590	2,913661E+09	2,913676E+09	3,517307E+09	3,517276E+09	5,827337E+09	7,034584E+09	1,286192E+10
-2589	2,913568E+09	2,913629E+09	3,517297E+09	3,517281E+09	5,827197E+09	7,034578E+09	1,286178E+10
-2588	2,913734E+09	2,913716E+09	3,517320E+09	3,517351E+09	5,827449E+09	7,034672E+09	1,286212E+10
-2587	2,913708E+09	2,913686E+09	3,517317E+09	3,517242E+09	5,827395E+09	7,034560E+09	1,286195E+10
-2586	2,913704E+09	2,913707E+09	3,517284E+09	3,517321E+09	5,827410E+09	7,034606E+09	1,286202E+10
-2585	2,913835E+09	2,913805E+09	3,517305E+09	3,517347E+09	5,827641E+09	7,034652E+09	1,286229E+10
-2584	2,913714E+09	2,913770E+09	3,517297E+09	3,517249E+09	5,827484E+09	7,034546E+09	1,286203E+10
-2583	2,913761E+09	2,913809E+09	3,517306E+09	3,517335E+09	5,827570E+09	7,034640E+09	1,286221E+10
-2582	2,913834E+09	2,913804E+09	3,517337E+09	3,517284E+09	5,827638E+09	7,034621E+09	1,286226E+10
-2581	2,913700E+09	2,913716E+09	3,517335E+09	3,517254E+09	5,827416E+09	7,034588E+09	1,286200E+10
-2580	2,913782E+09	2,913769E+09	3,517331E+09	3,517364E+09	5,827550E+09	7,034696E+09	1,286225E+10
-2579	2,913736E+09	2,913731E+09	3,517296E+09	3,517276E+09	5,827467E+09	7,034572E+09	1,286204E+10
-2578	2,913639E+09	2,913688E+09	3,517258E+09	3,517316E+09	5,827327E+09	7,034573E+09	1,286190E+10
-2577	2,913754E+09	2,913725E+09	3,517287E+09	3,517345E+09	5,827478E+09	7,034632E+09	1,286211E+10
-2576	2,913655E+09	2,913653E+09	3,517291E+09	3,517202E+09	5,827308E+09	7,034493E+09	1,286180E+10
-2575	2,913649E+09	2,913666E+09	3,517290E+09	3,517279E+09	5,827315E+09	7,034568E+09	1,286188E+10
-2574	2,913741E+09	2,913695E+09	3,517298E+09	3,517285E+09	5,827436E+09	7,034583E+09	1,286202E+10
-2573	2,913593E+09	2,913644E+09	3,517299E+09	3,517235E+09	5,827238E+09	7,034534E+09	1,286177E+10
-2572	2,913650E+09	2,913708E+09	3,517309E+09	3,517353E+09	5,827358E+09	7,034662E+09	1,286202E+10
-2571	2,913702E+09	2,913706E+09	3,517301E+09	3,517274E+09	5,827409E+09	7,034576E+09	1,286198E+10
-2570	2,913639E+09	2,913670E+09	3,517288E+09	3,517276E+09	5,827308E+09	7,034564E+09	1,286187E+10
-2569	2,913798E+09	2,913739E+09	3,517316E+09	3,517359E+09	5,827537E+09	7,034676E+09	1,286221E+10
-2568	2,913772E+09	2,913749E+09	3,517295E+09	3,517240E+09	5,827521E+09	7,034535E+09	1,286206E+10
-2567	2,913738E+09	2,913795E+09	3,517277E+09	3,517311E+09	5,827532E+09	7,034587E+09	1,286212E+10
-2566	2,913874E+09	2,913855E+09	3,517294E+09	3,517342E+09	5,827729E+09	7,034635E+09	1,286236E+10
-2565	2,913768E+09	2,913804E+09	3,517321E+09	3,517226E+09	5,827572E+09	7,034547E+09	1,286212E+10
-2564	2,913794E+09	2,913834E+09	3,517343E+09	3,517330E+09	5,827627E+09	7,034673E+09	1,286230E+10
-2563	2,913873E+09	2,913831E+09	3,517327E+09	3,517293E+09	5,827704E+09	7,034621E+09	1,286232E+10
-2562	2,913738E+09	2,913767E+09	3,517305E+09	3,517278E+09	5,827505E+09	7,034583E+09	1,286209E+10
-2561	2,913801E+09	2,913799E+09	3,517316E+09	3,517393E+09	5,827600E+09	7,034708E+09	1,286231E+10
-2560	2,913775E+09	2,913776E+09	3,517284E+09	3,517264E+09	5,827551E+09	7,034548E+09	1,286210E+10

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	2,913675E+09	2,913735E+09	3,517273E+09	3,517273E+09	5,827410E+09	7,034546E+09	1,286196E+10
-2558	2,913808E+09	2,913739E+09	3,517290E+09	3,517322E+09	5,827547E+09	7,034612E+09	1,286216E+10
-2557	2,913710E+09	2,913677E+09	3,517306E+09	3,517187E+09	5,827388E+09	7,034492E+09	1,286188E+10
-2556	2,913656E+09	2,913710E+09	3,517302E+09	3,517299E+09	5,827366E+09	7,034601E+09	1,286197E+10
-2555	2,913754E+09	2,913742E+09	3,517273E+09	3,517306E+09	5,827496E+09	7,034579E+09	1,286208E+10
-2554	2,913629E+09	2,913692E+09	3,517278E+09	3,517246E+09	5,827322E+09	7,034524E+09	1,286185E+10
-2553	2,913699E+09	2,913720E+09	3,517315E+09	3,517355E+09	5,827420E+09	7,034671E+09	1,286209E+10
-2552	2,913782E+09	2,913740E+09	3,517297E+09	3,517252E+09	5,827522E+09	7,034548E+09	1,286207E+10
-2551	2,913704E+09	2,913739E+09	3,517289E+09	3,517254E+09	5,827443E+09	7,034543E+09	1,286199E+10
-2550	2,913857E+09	2,913801E+09	3,517289E+09	3,517367E+09	5,827658E+09	7,034656E+09	1,286231E+10
-2549	2,913822E+09	2,913820E+09	3,517298E+09	3,517236E+09	5,827642E+09	7,034533E+09	1,286217E+10
-2548	2,913757E+09	2,913861E+09	3,517310E+09	3,517311E+09	5,827617E+09	7,034621E+09	1,286224E+10
-2547	2,913910E+09	2,913893E+09	3,517307E+09	3,517330E+09	5,827803E+09	7,034637E+09	1,286244E+10
-2546	2,913821E+09	2,913839E+09	3,517332E+09	3,517231E+09	5,827660E+09	7,034563E+09	1,286222E+10
-2545	2,913830E+09	2,913843E+09	3,517352E+09	3,517360E+09	5,827673E+09	7,034712E+09	1,286238E+10
-2544	2,913906E+09	2,913870E+09	3,517299E+09	3,517310E+09	5,827776E+09	7,034610E+09	1,286239E+10
-2543	2,913763E+09	2,913825E+09	3,517284E+09	3,517274E+09	5,827588E+09	7,034558E+09	1,286215E+10
-2542	2,913844E+09	2,913816E+09	3,517282E+09	3,517378E+09	5,827660E+09	7,034660E+09	1,286232E+10
-2541	2,913835E+09	2,913792E+09	3,517291E+09	3,517220E+09	5,827628E+09	7,034511E+09	1,286214E+10
-2540	2,913713E+09	2,913767E+09	3,517301E+09	3,517247E+09	5,827479E+09	7,034548E+09	1,286203E+10
-2539	2,913837E+09	2,913778E+09	3,517283E+09	3,517313E+09	5,827615E+09	7,034596E+09	1,286221E+10
-2538	2,913736E+09	2,913744E+09	3,517292E+09	3,517208E+09	5,827480E+09	7,034500E+09	1,286198E+10
-2537	2,913664E+09	2,913745E+09	3,517308E+09	3,517333E+09	5,827409E+09	7,034641E+09	1,286205E+10
-2536	2,913784E+09	2,913787E+09	3,517272E+09	3,517308E+09	5,827571E+09	7,034580E+09	1,286215E+10
-2535	2,913681E+09	2,913738E+09	3,517294E+09	3,517225E+09	5,827419E+09	7,034518E+09	1,286194E+10
-2534	2,913774E+09	2,913735E+09	3,517305E+09	3,517352E+09	5,827510E+09	7,034656E+09	1,286217E+10
-2533	2,913859E+09	2,913781E+09	3,517295E+09	3,517245E+09	5,827640E+09	7,034541E+09	1,286218E+10
-2532	2,913737E+09	2,913813E+09	3,517289E+09	3,517263E+09	5,827550E+09	7,034552E+09	1,286210E+10
-2531	2,913887E+09	2,913871E+09	3,517266E+09	3,517367E+09	5,827758E+09	7,034633E+09	1,286239E+10
-2530	2,913868E+09	2,913886E+09	3,517293E+09	3,517230E+09	5,827755E+09	7,034523E+09	1,286228E+10
-2529	2,913798E+09	2,913879E+09	3,517341E+09	3,517312E+09	5,827677E+09	7,034653E+09	1,286233E+10
-2528	2,913966E+09	2,913927E+09	3,517317E+09	3,517322E+09	5,827893E+09	7,034640E+09	1,286253E+10
-2527	2,913867E+09	2,913887E+09	3,517335E+09	3,517228E+09	5,827755E+09	7,034563E+09	1,286232E+10
-2526	2,913870E+09	2,913872E+09	3,517320E+09	3,517382E+09	5,827743E+09	7,034702E+09	1,286244E+10
-2525	2,913952E+09	2,913906E+09	3,517289E+09	3,517305E+09	5,827857E+09	7,034594E+09	1,286245E+10
-2524	2,913784E+09	2,913868E+09	3,517296E+09	3,517257E+09	5,827652E+09	7,034553E+09	1,286220E+10
-2523	2,913884E+09	2,913845E+09	3,517276E+09	3,517348E+09	5,827729E+09	7,034623E+09	1,286235E+10
-2522	2,913886E+09	2,913831E+09	3,517288E+09	3,517207E+09	5,827717E+09	7,034496E+09	1,286221E+10
-2521	2,913733E+09	2,913790E+09	3,517313E+09	3,517270E+09	5,827524E+09	7,034583E+09	1,286211E+10
-2520	2,913848E+09	2,913835E+09	3,517266E+09	3,517328E+09	5,827682E+09	7,034594E+09	1,286228E+10
-2519	2,913751E+09	2,913803E+09	3,517291E+09	3,517212E+09	5,827554E+09	7,034503E+09	1,286206E+10
-2518	2,913707E+09	2,913759E+09	3,517295E+09	3,517337E+09	5,827465E+09	7,034632E+09	1,286210E+10
-2517	2,913857E+09	2,913799E+09	3,517285E+09	3,517284E+09	5,827656E+09	7,034569E+09	1,286222E+10
-2516	2,913740E+09	2,913779E+09	3,517309E+09	3,517213E+09	5,827519E+09	7,034522E+09	1,286204E+10
-2515	2,913833E+09	2,913792E+09	3,517276E+09	3,517347E+09	5,827625E+09	7,034623E+09	1,286225E+10
-2514	2,913910E+09	2,913870E+09	3,517272E+09	3,517256E+09	5,827780E+09	7,034528E+09	1,286231E+10
-2513	2,913766E+09	2,913873E+09	3,517307E+09	3,517280E+09	5,827639E+09	7,034587E+09	1,286223E+10
-2512	2,913917E+09	2,913933E+09	3,517282E+09	3,517349E+09	5,827851E+09	7,034631E+09	1,286248E+10
-2511	2,913918E+09	2,913936E+09	3,517330E+09	3,517212E+09	5,827854E+09	7,034541E+09	1,286240E+10

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	2,913859E+09	2,913883E+09	3,517342E+09	3,517323E+09	5,827742E+09	7,034665E+09	1,286241E+10
-2509	2,914019E+09	2,913948E+09	3,517314E+09	3,517333E+09	5,827967E+09	7,034647E+09	1,286261E+10
-2508	2,913890E+09	2,913939E+09	3,517318E+09	3,517250E+09	5,827830E+09	7,034569E+09	1,286240E+10
-2507	2,913901E+09	2,913912E+09	3,517272E+09	3,517379E+09	5,827814E+09	7,034651E+09	1,286246E+10
-2506	2,914001E+09	2,913953E+09	3,517264E+09	3,517284E+09	5,827954E+09	7,034548E+09	1,286250E+10
-2505	2,913828E+09	2,913884E+09	3,517312E+09	3,517238E+09	5,827711E+09	7,034550E+09	1,286226E+10
-2504	2,913920E+09	2,913890E+09	3,517279E+09	3,517319E+09	5,827810E+09	7,034598E+09	1,286241E+10
-2503	2,913914E+09	2,913896E+09	3,517299E+09	3,517202E+09	5,827809E+09	7,034501E+09	1,286231E+10
-2502	2,913753E+09	2,913822E+09	3,517302E+09	3,517298E+09	5,827575E+09	7,034600E+09	1,286218E+10
-2501	2,913875E+09	2,913865E+09	3,517280E+09	3,517334E+09	5,827740E+09	7,034615E+09	1,286235E+10
-2500	2,913777E+09	2,913836E+09	3,517315E+09	3,517212E+09	5,827613E+09	7,034527E+09	1,286214E+10
-2499	2,913765E+09	2,913776E+09	3,517284E+09	3,517325E+09	5,827541E+09	7,034609E+09	1,286215E+10
-2498	2,913933E+09	2,913839E+09	3,517268E+09	3,517284E+09	5,827772E+09	7,034552E+09	1,286232E+10
-2497	2,913785E+09	2,913822E+09	3,517303E+09	3,517234E+09	5,827607E+09	7,034537E+09	1,286214E+10
-2496	2,913866E+09	2,913877E+09	3,517250E+09	3,517345E+09	5,827743E+09	7,034595E+09	1,286234E+10
-2495	2,913949E+09	2,913949E+09	3,517273E+09	3,517239E+09	5,827898E+09	7,034512E+09	1,286241E+10
-2494	2,913817E+09	2,913899E+09	3,517312E+09	3,517275E+09	5,827716E+09	7,034587E+09	1,286230E+10
-2493	2,913984E+09	2,913955E+09	3,517313E+09	3,517328E+09	5,827939E+09	7,034640E+09	1,286258E+10
-2492	2,913963E+09	2,913976E+09	3,517351E+09	3,517218E+09	5,827939E+09	7,034569E+09	1,286251E+10
-2491	2,913904E+09	2,913927E+09	3,517308E+09	3,517342E+09	5,827832E+09	7,034650E+09	1,286248E+10
-2490	2,914064E+09	2,914011E+09	3,517276E+09	3,517353E+09	5,828075E+09	7,034629E+09	1,286270E+10
-2489	2,913920E+09	2,913979E+09	3,517314E+09	3,517262E+09	5,827899E+09	7,034576E+09	1,286248E+10
-2488	2,913937E+09	2,913966E+09	3,517265E+09	3,517343E+09	5,827903E+09	7,034608E+09	1,286251E+10
-2487	2,914051E+09	2,913999E+09	3,517286E+09	3,517246E+09	5,828050E+09	7,034532E+09	1,286258E+10
-2486	2,913873E+09	2,913896E+09	3,517319E+09	3,517240E+09	5,827769E+09	7,034560E+09	1,286233E+10
-2485	2,913945E+09	2,913920E+09	3,517292E+09	3,517322E+09	5,827865E+09	7,034615E+09	1,286248E+10
-2484	2,913914E+09	2,913945E+09	3,517306E+09	3,517227E+09	5,827859E+09	7,034533E+09	1,286239E+10
-2483	2,913776E+09	2,913845E+09	3,517275E+09	3,517307E+09	5,827621E+09	7,034583E+09	1,286220E+10
-2482	2,913928E+09	2,913889E+09	3,517266E+09	3,517331E+09	5,827817E+09	7,034596E+09	1,286241E+10
-2481	2,913837E+09	2,913846E+09	3,517323E+09	3,517213E+09	5,827683E+09	7,034536E+09	1,286222E+10
-2480	2,913822E+09	2,913829E+09	3,517261E+09	3,517302E+09	5,827651E+09	7,034563E+09	1,286221E+10
-2479	2,913986E+09	2,913922E+09	3,517258E+09	3,517273E+09	5,827908E+09	7,034532E+09	1,286244E+10
-2478	2,913829E+09	2,913879E+09	3,517287E+09	3,517245E+09	5,827708E+09	7,034533E+09	1,286224E+10
-2477	2,913901E+09	2,913932E+09	3,517275E+09	3,517327E+09	5,827834E+09	7,034602E+09	1,286244E+10
-2476	2,913980E+09	2,914005E+09	3,517313E+09	3,517233E+09	5,827985E+09	7,034546E+09	1,286253E+10
-2475	2,913873E+09	2,913920E+09	3,517315E+09	3,517275E+09	5,827793E+09	7,034590E+09	1,286238E+10
-2474	2,914046E+09	2,913992E+09	3,517302E+09	3,517347E+09	5,828038E+09	7,034650E+09	1,286269E+10
-2473	2,914002E+09	2,914011E+09	3,517338E+09	3,517258E+09	5,828013E+09	7,034596E+09	1,286261E+10
-2472	2,913935E+09	2,913995E+09	3,517264E+09	3,517342E+09	5,827931E+09	7,034606E+09	1,286254E+10
-2471	2,914112E+09	2,914073E+09	3,517262E+09	3,517329E+09	5,828185E+09	7,034591E+09	1,286278E+10
-2470	2,913978E+09	2,913997E+09	3,517309E+09	3,517238E+09	5,827974E+09	7,034547E+09	1,286252E+10
-2469	2,913996E+09	2,913989E+09	3,517294E+09	3,517299E+09	5,827985E+09	7,034593E+09	1,286258E+10
-2468	2,914080E+09	2,914046E+09	3,517313E+09	3,517238E+09	5,828126E+09	7,034551E+09	1,286268E+10
-2467	2,913895E+09	2,913936E+09	3,517306E+09	3,517259E+09	5,827831E+09	7,034564E+09	1,286240E+10
-2466	2,913966E+09	2,913968E+09	3,517280E+09	3,517350E+09	5,827934E+09	7,034630E+09	1,286256E+10
-2465	2,913927E+09	2,913963E+09	3,517317E+09	3,517255E+09	5,827890E+09	7,034572E+09	1,286246E+10
-2464	2,913812E+09	2,913880E+09	3,517264E+09	3,517289E+09	5,827692E+09	7,034553E+09	1,286225E+10
-2463	2,913996E+09	2,913920E+09	3,517264E+09	3,517307E+09	5,827915E+09	7,034571E+09	1,286249E+10
-2462	2,913899E+09	2,913867E+09	3,517301E+09	3,517218E+09	5,827766E+09	7,034519E+09	1,286229E+10

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	2,913869E+09	2,913887E+09	3,517254E+09	3,517290E+09	5,827756E+09	7,034544E+09	1,286230E+10
-2460	2,914005E+09	2,914001E+09	3,517261E+09	3,517274E+09	5,828006E+09	7,034535E+09	1,286254E+10
-2459	2,913867E+09	2,913928E+09	3,517279E+09	3,517239E+09	5,827795E+09	7,034518E+09	1,286231E+10
-2458	2,913957E+09	2,913973E+09	3,517285E+09	3,517318E+09	5,827930E+09	7,034603E+09	1,286253E+10
-2457	2,914032E+09	2,914025E+09	3,517339E+09	3,517249E+09	5,828057E+09	7,034588E+09	1,286264E+10
-2456	2,913924E+09	2,913976E+09	3,517297E+09	3,517276E+09	5,827900E+09	7,034573E+09	1,286247E+10
-2455	2,914101E+09	2,914060E+09	3,517286E+09	3,517356E+09	5,828161E+09	7,034642E+09	1,286280E+10
-2454	2,914052E+09	2,914055E+09	3,517314E+09	3,517276E+09	5,828106E+09	7,034590E+09	1,286270E+10
-2453	2,913985E+09	2,914042E+09	3,517275E+09	3,517310E+09	5,828028E+09	7,034585E+09	1,286261E+10
-2452	2,914152E+09	2,914124E+09	3,517294E+09	3,517301E+09	5,828276E+09	7,034595E+09	1,286287E+10
-2451	2,914031E+09	2,914019E+09	3,517315E+09	3,517222E+09	5,828050E+09	7,034537E+09	1,286259E+10
-2450	2,914031E+09	2,914027E+09	3,517296E+09	3,517309E+09	5,828058E+09	7,034605E+09	1,286266E+10
-2449	2,914087E+09	2,914080E+09	3,517315E+09	3,517284E+09	5,828166E+09	7,034599E+09	1,286277E+10
-2448	2,913901E+09	2,913981E+09	3,517272E+09	3,517267E+09	5,827882E+09	7,034540E+09	1,286242E+10
-2447	2,914000E+09	2,914000E+09	3,517271E+09	3,517340E+09	5,828000E+09	7,034611E+09	1,286261E+10
-2446	2,913985E+09	2,913959E+09	3,517304E+09	3,517246E+09	5,827944E+09	7,034550E+09	1,286249E+10
-2445	2,913878E+09	2,913900E+09	3,517268E+09	3,517250E+09	5,827778E+09	7,034518E+09	1,286230E+10
-2444	2,914039E+09	2,913983E+09	3,517266E+09	3,517295E+09	5,828022E+09	7,034561E+09	1,286258E+10
-2443	2,913941E+09	2,913928E+09	3,517274E+09	3,517221E+09	5,827869E+09	7,034495E+09	1,286236E+10
-2442	2,913902E+09	2,913958E+09	3,517252E+09	3,517293E+09	5,827860E+09	7,034545E+09	1,286241E+10
-2441	2,914028E+09	2,914046E+09	3,517294E+09	3,517286E+09	5,828073E+09	7,034580E+09	1,286265E+10
-2440	2,913907E+09	2,913974E+09	3,517293E+09	3,517223E+09	5,827881E+09	7,034516E+09	1,286240E+10
-2439	2,914023E+09	2,914009E+09	3,517304E+09	3,517317E+09	5,828032E+09	7,034621E+09	1,286265E+10
-2438	2,914091E+09	2,914046E+09	3,517325E+09	3,517281E+09	5,828137E+09	7,034606E+09	1,286274E+10
-2437	2,913978E+09	2,914029E+09	3,517281E+09	3,517280E+09	5,828007E+09	7,034561E+09	1,286257E+10
-2436	2,914139E+09	2,914130E+09	3,517274E+09	3,517355E+09	5,828269E+09	7,034629E+09	1,286290E+10
-2435	2,914109E+09	2,914097E+09	3,517292E+09	3,517257E+09	5,828205E+09	7,034549E+09	1,286275E+10
-2434	2,914051E+09	2,914085E+09	3,517283E+09	3,517280E+09	5,828136E+09	7,034563E+09	1,286270E+10
-2433	2,914190E+09	2,914151E+09	3,517320E+09	3,517300E+09	5,828341E+09	7,034621E+09	1,286296E+10
-2432	2,914053E+09	2,914078E+09	3,517306E+09	3,517221E+09	5,828131E+09	7,034527E+09	1,286266E+10
-2431	2,914054E+09	2,914082E+09	3,517290E+09	3,517323E+09	5,828136E+09	7,034613E+09	1,286275E+10
-2430	2,914100E+09	2,914098E+09	3,517302E+09	3,517313E+09	5,828199E+09	7,034614E+09	1,286281E+10
-2429	2,913936E+09	2,914003E+09	3,517281E+09	3,517247E+09	5,827939E+09	7,034528E+09	1,286247E+10
-2428	2,914043E+09	2,914024E+09	3,517285E+09	3,517318E+09	5,828067E+09	7,034604E+09	1,286267E+10
-2427	2,914048E+09	2,913973E+09	3,517287E+09	3,517234E+09	5,828021E+09	7,034521E+09	1,286254E+10
-2426	2,913929E+09	2,913949E+09	3,517252E+09	3,517246E+09	5,827878E+09	7,034498E+09	1,286238E+10
-2425	2,914055E+09	2,914039E+09	3,517263E+09	3,517317E+09	5,828094E+09	7,034580E+09	1,286267E+10
-2424	2,913959E+09	2,914001E+09	3,517257E+09	3,517212E+09	5,827960E+09	7,034468E+09	1,286243E+10
-2423	2,913946E+09	2,914008E+09	3,517269E+09	3,517278E+09	5,827953E+09	7,034546E+09	1,286250E+10
-2422	2,914082E+09	2,914058E+09	3,517309E+09	3,517291E+09	5,828140E+09	7,034600E+09	1,286274E+10
-2421	2,913975E+09	2,914005E+09	3,517311E+09	3,517209E+09	5,827980E+09	7,034520E+09	1,286250E+10
-2420	2,914073E+09	2,914072E+09	3,517307E+09	3,517330E+09	5,828145E+09	7,034637E+09	1,286278E+10
-2419	2,914147E+09	2,914103E+09	3,517291E+09	3,517301E+09	5,828250E+09	7,034592E+09	1,286284E+10
-2418	2,914029E+09	2,914097E+09	3,517267E+09	3,517278E+09	5,828125E+09	7,034545E+09	1,286267E+10
-2417	2,914177E+09	2,914180E+09	3,517292E+09	3,517354E+09	5,828357E+09	7,034646E+09	1,286300E+10
-2416	2,914155E+09	2,914146E+09	3,517292E+09	3,517223E+09	5,828301E+09	7,034515E+09	1,286282E+10
-2415	2,914103E+09	2,914126E+09	3,517298E+09	3,517269E+09	5,828228E+09	7,034567E+09	1,286280E+10
-2414	2,914215E+09	2,914176E+09	3,517314E+09	3,517329E+09	5,828391E+09	7,034643E+09	1,286303E+10
-2413	2,914072E+09	2,914117E+09	3,517300E+09	3,517227E+09	5,828189E+09	7,034527E+09	1,286272E+10

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							
-2412	2,914068E+09	2,914122E+09	3,517289E+09	3,517328E+09	5,828190E+09	7,034617E+09	1,286281E+10
-2411	2,914147E+09	2,914103E+09	3,517280E+09	3,517302E+09	5,828250E+09	7,034581E+09	1,286283E+10
-2410	2,914001E+09	2,914020E+09	3,517275E+09	3,517219E+09	5,828021E+09	7,034494E+09	1,286251E+10
-2409	2,914089E+09	2,914051E+09	3,517288E+09	3,517316E+09	5,828140E+09	7,034604E+09	1,286274E+10
-2408	2,914081E+09	2,914042E+09	3,517260E+09	3,517221E+09	5,828124E+09	7,034481E+09	1,286260E+10
-2407	2,913964E+09	2,914025E+09	3,517250E+09	3,517247E+09	5,827989E+09	7,034497E+09	1,286249E+10
-2406	2,914074E+09	2,914082E+09	3,517273E+09	3,517329E+09	5,828155E+09	7,034603E+09	1,286276E+10
-2405	2,913998E+09	2,914044E+09	3,517291E+09	3,517192E+09	5,828042E+09	7,034484E+09	1,286253E+10
-2404	2,913993E+09	2,914044E+09	3,517305E+09	3,517273E+09	5,828037E+09	7,034578E+09	1,286261E+10
-2403	2,914145E+09	2,914078E+09	3,517299E+09	3,517310E+09	5,828222E+09	7,034609E+09	1,286283E+10
-2402	2,914037E+09	2,914058E+09	3,517289E+09	3,517232E+09	5,828095E+09	7,034520E+09	1,286262E+10
-2401	2,914108E+09	2,914128E+09	3,517284E+09	3,517360E+09	5,828236E+09	7,034644E+09	1,286288E+10
-2400	2,914188E+09	2,914175E+09	3,517257E+09	3,517282E+09	5,828362E+09	7,034539E+09	1,286290E+10
-2399	2,914098E+09	2,914151E+09	3,517269E+09	3,517243E+09	5,828249E+09	7,034512E+09	1,286276E+10
-2398	2,914230E+09	2,914202E+09	3,517305E+09	3,517335E+09	5,828432E+09	7,034640E+09	1,286307E+10
-2397	2,914207E+09	2,914193E+09	3,517312E+09	3,517200E+09	5,828400E+09	7,034512E+09	1,286291E+10
-2396	2,914127E+09	2,914185E+09	3,517312E+09	3,517278E+09	5,828311E+09	7,034590E+09	1,286290E+10
-2395	2,914238E+09	2,914211E+09	3,517294E+09	3,517354E+09	5,828449E+09	7,034648E+09	1,286310E+10
-2394	2,914105E+09	2,914150E+09	3,517297E+09	3,517232E+09	5,828255E+09	7,034529E+09	1,286278E+10
-2393	2,914096E+09	2,914137E+09	3,517301E+09	3,517332E+09	5,828233E+09	7,034633E+09	1,286287E+10
-2392	2,914193E+09	2,914129E+09	3,517266E+09	3,517275E+09	5,828323E+09	7,034541E+09	1,286286E+10
-2391	2,914061E+09	2,914057E+09	3,517267E+09	3,517208E+09	5,828118E+09	7,034475E+09	1,286259E+10
-2390	2,914116E+09	2,914092E+09	3,517269E+09	3,517333E+09	5,828208E+09	7,034602E+09	1,286281E+10
-2389	2,914106E+09	2,914107E+09	3,517253E+09	3,517211E+09	5,828214E+09	7,034464E+09	1,286268E+10
-2388	2,913985E+09	2,914083E+09	3,517269E+09	3,517242E+09	5,828069E+09	7,034511E+09	1,286258E+10
-2387	2,914118E+09	2,914103E+09	3,517279E+09	3,517324E+09	5,828221E+09	7,034603E+09	1,286282E+10
-2386	2,914061E+09	2,914067E+09	3,517306E+09	3,517185E+09	5,828127E+09	7,034492E+09	1,286262E+10
-2385	2,914041E+09	2,914078E+09	3,517311E+09	3,517300E+09	5,828119E+09	7,034611E+09	1,286273E+10
-2384	2,914191E+09	2,914142E+09	3,517260E+09	3,517316E+09	5,828332E+09	7,034575E+09	1,286291E+10
-2383	2,914094E+09	2,914131E+09	3,517264E+09	3,517236E+09	5,828225E+09	7,034500E+09	1,286273E+10
-2382	2,914152E+09	2,914180E+09	3,517276E+09	3,517358E+09	5,828332E+09	7,034634E+09	1,286297E+10
-2381	2,914247E+09	2,914229E+09	3,517276E+09	3,517238E+09	5,828476E+09	7,034515E+09	1,286299E+10
-2380	2,914153E+09	2,914200E+09	3,517307E+09	3,517220E+09	5,828353E+09	7,034527E+09	1,286288E+10
-2379	2,914277E+09	2,914230E+09	3,517305E+09	3,517342E+09	5,828507E+09	7,034647E+09	1,286315E+10
-2378	2,914241E+09	2,914239E+09	3,517307E+09	3,517222E+09	5,828481E+09	7,034530E+09	1,286301E+10
-2377	2,914137E+09	2,914223E+09	3,517304E+09	3,517317E+09	5,828360E+09	7,034621E+09	1,286298E+10
-2376	2,914262E+09	2,914246E+09	3,517265E+09	3,517346E+09	5,828508E+09	7,034611E+09	1,286312E+10
-2375	2,914168E+09	2,914175E+09	3,517287E+09	3,517213E+09	5,828343E+09	7,034500E+09	1,286284E+10
-2374	2,914150E+09	2,914147E+09	3,517291E+09	3,517321E+09	5,828297E+09	7,034611E+09	1,286291E+10
-2373	2,914245E+09	2,914180E+09	3,517261E+09	3,517249E+09	5,828424E+09	7,034510E+09	1,286293E+10
-2372	2,914091E+09	2,914131E+09	3,517273E+09	3,517205E+09	5,828221E+09	7,034478E+09	1,286270E+10
-2371	2,914133E+09	2,914143E+09	3,517261E+09	3,517340E+09	5,828276E+09	7,034601E+09	1,286288E+10
-2370	2,914137E+09	2,914154E+09	3,517275E+09	3,517209E+09	5,828292E+09	7,034484E+09	1,286278E+10
-2369	2,914013E+09	2,914102E+09	3,517300E+09	3,517252E+09	5,828115E+09	7,034552E+09	1,286267E+10
-2368	2,914162E+09	2,914125E+09	3,517276E+09	3,517318E+09	5,828287E+09	7,034593E+09	1,286288E+10
-2367	2,914129E+09	2,914104E+09	3,517290E+09	3,517201E+09	5,828233E+09	7,034491E+09	1,286272E+10
-2366	2,914081E+09	2,914120E+09	3,517275E+09	3,517328E+09	5,828201E+09	7,034603E+09	1,286280E+10
-2365	2,914241E+09	2,914212E+09	3,517235E+09	3,517302E+09	5,828453E+09	7,034537E+09	1,286299E+10
-2364	2,914150E+09	2,914198E+09	3,517271E+09	3,517207E+09	5,828348E+09	7,034478E+09	1,286283E+10

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	2,914218E+09	2,914216E+09	3,517278E+09	3,517327E+09	5,828434E+09	7,034605E+09	1,286304E+10
-2362	2,914317E+09	2,914272E+09	3,517299E+09	3,517217E+09	5,828589E+09	7,034516E+09	1,286310E+10
-2361	2,914186E+09	2,914249E+09	3,517327E+09	3,517245E+09	5,828435E+09	7,034572E+09	1,286301E+10
-2360	2,914294E+09	2,914293E+09	3,517287E+09	3,517359E+09	5,828587E+09	7,034646E+09	1,286323E+10
-2359	2,914277E+09	2,914292E+09	3,517296E+09	3,517246E+09	5,828569E+09	7,034542E+09	1,286311E+10
-2358	2,914165E+09	2,914245E+09	3,517297E+09	3,517332E+09	5,828410E+09	7,034629E+09	1,286304E+10
-2357	2,914317E+09	2,914273E+09	3,517267E+09	3,517314E+09	5,828590E+09	7,034580E+09	1,286317E+10
-2356	2,914227E+09	2,914208E+09	3,517299E+09	3,517191E+09	5,828434E+09	7,034490E+09	1,286292E+10
-2355	2,914196E+09	2,914178E+09	3,517270E+09	3,517318E+09	5,828374E+09	7,034588E+09	1,286296E+10
-2354	2,914275E+09	2,914232E+09	3,517250E+09	3,517249E+09	5,828506E+09	7,034499E+09	1,286301E+10
-2353	2,914096E+09	2,914179E+09	3,517279E+09	3,517225E+09	5,828275E+09	7,034504E+09	1,286278E+10
-2352	2,914150E+09	2,914176E+09	3,517254E+09	3,517320E+09	5,828326E+09	7,034574E+09	1,286290E+10
-2351	2,914193E+09	2,914174E+09	3,517281E+09	3,517200E+09	5,828367E+09	7,034482E+09	1,286285E+10
-2350	2,914063E+09	2,914113E+09	3,517298E+09	3,517263E+09	5,828176E+09	7,034560E+09	1,286274E+10
-2349	2,914220E+09	2,914173E+09	3,517260E+09	3,517311E+09	5,828393E+09	7,034571E+09	1,286296E+10
-2348	2,914182E+09	2,914178E+09	3,517280E+09	3,517206E+09	5,828360E+09	7,034486E+09	1,286285E+10
-2347	2,914131E+09	2,914179E+09	3,517251E+09	3,517326E+09	5,828311E+09	7,034577E+09	1,286289E+10
-2346	2,914300E+09	2,914273E+09	3,517249E+09	3,517278E+09	5,828573E+09	7,034527E+09	1,286310E+10
-2345	2,914199E+09	2,914247E+09	3,517305E+09	3,517202E+09	5,828446E+09	7,034507E+09	1,286295E+10
-2344	2,914261E+09	2,914262E+09	3,517286E+09	3,517313E+09	5,828523E+09	7,034599E+09	1,286312E+10
-2343	2,914369E+09	2,914327E+09	3,517295E+09	3,517244E+09	5,828696E+09	7,034540E+09	1,286324E+10
-2342	2,914207E+09	2,914290E+09	3,517309E+09	3,517288E+09	5,828497E+09	7,034598E+09	1,286309E+10
-2341	2,914326E+09	2,914342E+09	3,517272E+09	3,517358E+09	5,828668E+09	7,034631E+09	1,286330E+10
-2340	2,914330E+09	2,914329E+09	3,517301E+09	3,517230E+09	5,828659E+09	7,034530E+09	1,286319E+10
-2339	2,914227E+09	2,914255E+09	3,517283E+09	3,517305E+09	5,828483E+09	7,034588E+09	1,286307E+10
-2338	2,914384E+09	2,914302E+09	3,517269E+09	3,517289E+09	5,828686E+09	7,034558E+09	1,286324E+10
-2337	2,914257E+09	2,914256E+09	3,517299E+09	3,517197E+09	5,828512E+09	7,034495E+09	1,286301E+10
-2336	2,914204E+09	2,914238E+09	3,517251E+09	3,517309E+09	5,828442E+09	7,034560E+09	1,286300E+10
-2335	2,914301E+09	2,914286E+09	3,517249E+09	3,517256E+09	5,828588E+09	7,034505E+09	1,286309E+10
-2334	2,914111E+09	2,914197E+09	3,517295E+09	3,517234E+09	5,828308E+09	7,034529E+09	1,286284E+10
-2333	2,914192E+09	2,914198E+09	3,517272E+09	3,517301E+09	5,828390E+09	7,034573E+09	1,286296E+10
-2332	2,914250E+09	2,914200E+09	3,517296E+09	3,517201E+09	5,828451E+09	7,034496E+09	1,286295E+10
-2331	2,914115E+09	2,914145E+09	3,517263E+09	3,517279E+09	5,828260E+09	7,034543E+09	1,286280E+10
-2330	2,914273E+09	2,914231E+09	3,517234E+09	3,517318E+09	5,828504E+09	7,034551E+09	1,286306E+10
-2329	2,914218E+09	2,914243E+09	3,517271E+09	3,517213E+09	5,828462E+09	7,034484E+09	1,286295E+10
-2328	2,914179E+09	2,914236E+09	3,517245E+09	3,517288E+09	5,828415E+09	7,034534E+09	1,286295E+10
-2327	2,914373E+09	2,914323E+09	3,517262E+09	3,517259E+09	5,828696E+09	7,034521E+09	1,286322E+10
-2326	2,914247E+09	2,914287E+09	3,517322E+09	3,517215E+09	5,828533E+09	7,034537E+09	1,286307E+10
-2325	2,914302E+09	2,914327E+09	3,517289E+09	3,517317E+09	5,828629E+09	7,034606E+09	1,286323E+10
-2324	2,914404E+09	2,914394E+09	3,517303E+09	3,517266E+09	5,828798E+09	7,034568E+09	1,286337E+10
-2323	2,914249E+09	2,914326E+09	3,517294E+09	3,517302E+09	5,828575E+09	7,034596E+09	1,286317E+10
-2322	2,914385E+09	2,914364E+09	3,517279E+09	3,517339E+09	5,828749E+09	7,034618E+09	1,286337E+10
-2321	2,914381E+09	2,914352E+09	3,517313E+09	3,517222E+09	5,828733E+09	7,034535E+09	1,286327E+10
-2320	2,914275E+09	2,914285E+09	3,517265E+09	3,517278E+09	5,828560E+09	7,034543E+09	1,286310E+10
-2319	2,914425E+09	2,914353E+09	3,517245E+09	3,517295E+09	5,828778E+09	7,034540E+09	1,286332E+10
-2318	2,914263E+09	2,914303E+09	3,517284E+09	3,517220E+09	5,828566E+09	7,034503E+09	1,286307E+10
-2317	2,914218E+09	2,914286E+09	3,517249E+09	3,517291E+09	5,828504E+09	7,034540E+09	1,286304E+10
-2316	2,914336E+09	2,914318E+09	3,517272E+09	3,517239E+09	5,828655E+09	7,034511E+09	1,286317E+10
-2315	2,914164E+09	2,914201E+09	3,517293E+09	3,517226E+09	5,828366E+09	7,034519E+09	1,286288E+10

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	2,914253E+09	2,914219E+09	3,517276E+09	3,517297E+09	5,828472E+09	7,034573E+09	1,286305E+10
-2313	2,914288E+09	2,914254E+09	3,517287E+09	3,517227E+09	5,828542E+09	7,034514E+09	1,286306E+10
-2312	2,914148E+09	2,914213E+09	3,517233E+09	3,517273E+09	5,828361E+09	7,034506E+09	1,286287E+10
-2311	2,914327E+09	2,914303E+09	3,517222E+09	3,517316E+09	5,828629E+09	7,034539E+09	1,286317E+10
-2310	2,914262E+09	2,914290E+09	3,517288E+09	3,517207E+09	5,828552E+09	7,034495E+09	1,286305E+10
-2309	2,914235E+09	2,914287E+09	3,517273E+09	3,517258E+09	5,828522E+09	7,034531E+09	1,286305E+10
-2308	2,914430E+09	2,914376E+09	3,517293E+09	3,517261E+09	5,828806E+09	7,034553E+09	1,286336E+10
-2307	2,914286E+09	2,914327E+09	3,517308E+09	3,517244E+09	5,828613E+09	7,034552E+09	1,286316E+10
-2306	2,914344E+09	2,914372E+09	3,517282E+09	3,517336E+09	5,828716E+09	7,034619E+09	1,286333E+10
-2305	2,914439E+09	2,914433E+09	3,517297E+09	3,517279E+09	5,828871E+09	7,034576E+09	1,286345E+10
-2304	2,914301E+09	2,914352E+09	3,517272E+09	3,517268E+09	5,828652E+09	7,034540E+09	1,286319E+10
-2303	2,914463E+09	2,914397E+09	3,517263E+09	3,517319E+09	5,828860E+09	7,034582E+09	1,286344E+10
-2302	2,914424E+09	2,914388E+09	3,517304E+09	3,517221E+09	5,828812E+09	7,034525E+09	1,286334E+10
-2301	2,914303E+09	2,914355E+09	3,517256E+09	3,517261E+09	5,828658E+09	7,034518E+09	1,286318E+10
-2300	2,914443E+09	2,914421E+09	3,517258E+09	3,517293E+09	5,828864E+09	7,034551E+09	1,286341E+10
-2299	2,914279E+09	2,914335E+09	3,517288E+09	3,517224E+09	5,828615E+09	7,034512E+09	1,286313E+10
-2298	2,914255E+09	2,914300E+09	3,517279E+09	3,517280E+09	5,828555E+09	7,034559E+09	1,286311E+10
-2297	2,914371E+09	2,914331E+09	3,517295E+09	3,517251E+09	5,828701E+09	7,034547E+09	1,286325E+10
-2296	2,914207E+09	2,914223E+09	3,517271E+09	3,517226E+09	5,828431E+09	7,034498E+09	1,286293E+10
-2295	2,914306E+09	2,914270E+09	3,517235E+09	3,517320E+09	5,828576E+09	7,034555E+09	1,286313E+10
-2294	2,914317E+09	2,914308E+09	3,517261E+09	3,517247E+09	5,828625E+09	7,034508E+09	1,286313E+10
-2293	2,914194E+09	2,914279E+09	3,517227E+09	3,517238E+09	5,828473E+09	7,034465E+09	1,286294E+10
-2292	2,914387E+09	2,914357E+09	3,517252E+09	3,517279E+09	5,828744E+09	7,034531E+09	1,286327E+10
-2291	2,914327E+09	2,914325E+09	3,517301E+09	3,517195E+09	5,828652E+09	7,034496E+09	1,286315E+10
-2290	2,914296E+09	2,914326E+09	3,517293E+09	3,517257E+09	5,828622E+09	7,034550E+09	1,286317E+10
-2289	2,914456E+09	2,914438E+09	3,517299E+09	3,517297E+09	5,828894E+09	7,034596E+09	1,286349E+10
-2288	2,914320E+09	2,914381E+09	3,517286E+09	3,517254E+09	5,828701E+09	7,034540E+09	1,286324E+10
-2287	2,914398E+09	2,914420E+09	3,517263E+09	3,517346E+09	5,828818E+09	7,034609E+09	1,286343E+10
-2286	2,914488E+09	2,914462E+09	3,517298E+09	3,517279E+09	5,828950E+09	7,034577E+09	1,286353E+10
-2285	2,914364E+09	2,914393E+09	3,517271E+09	3,517231E+09	5,828757E+09	7,034502E+09	1,286326E+10
-2284	2,914515E+09	2,914453E+09	3,517267E+09	3,517305E+09	5,828967E+09	7,034572E+09	1,286354E+10
-2283	2,914451E+09	2,914439E+09	3,517280E+09	3,517232E+09	5,828890E+09	7,034512E+09	1,286340E+10
-2282	2,914325E+09	2,914398E+09	3,517263E+09	3,517261E+09	5,828723E+09	7,034524E+09	1,286325E+10
-2281	2,914451E+09	2,914456E+09	3,517279E+09	3,517298E+09	5,828907E+09	7,034577E+09	1,286348E+10
-2280	2,914314E+09	2,914344E+09	3,517291E+09	3,517202E+09	5,828658E+09	7,034493E+09	1,286315E+10
-2279	2,914316E+09	2,914316E+09	3,517270E+09	3,517286E+09	5,828632E+09	7,034556E+09	1,286319E+10
-2278	2,914408E+09	2,914356E+09	3,517283E+09	3,517274E+09	5,828764E+09	7,034557E+09	1,286332E+10
-2277	2,914246E+09	2,914290E+09	3,517247E+09	3,517219E+09	5,828535E+09	7,034466E+09	1,286300E+10
-2276	2,914351E+09	2,914344E+09	3,517233E+09	3,517311E+09	5,828695E+09	7,034544E+09	1,286324E+10
-2275	2,914360E+09	2,914355E+09	3,517258E+09	3,517232E+09	5,828716E+09	7,034490E+09	1,286321E+10
-2274	2,914255E+09	2,914313E+09	3,517265E+09	3,517210E+09	5,828569E+09	7,034475E+09	1,286304E+10
-2273	2,914429E+09	2,914396E+09	3,517286E+09	3,517280E+09	5,828825E+09	7,034566E+09	1,286339E+10
-2272	2,914365E+09	2,914365E+09	3,517293E+09	3,517204E+09	5,828731E+09	7,034497E+09	1,286323E+10
-2271	2,914340E+09	2,914387E+09	3,517262E+09	3,517299E+09	5,828726E+09	7,034560E+09	1,286329E+10
-2270	2,914482E+09	2,914484E+09	3,517278E+09	3,517331E+09	5,828966E+09	7,034609E+09	1,286357E+10
-2269	2,914375E+09	2,914433E+09	3,517269E+09	3,517230E+09	5,828807E+09	7,034498E+09	1,286331E+10
-2268	2,914476E+09	2,914464E+09	3,517268E+09	3,517311E+09	5,828940E+09	7,034579E+09	1,286352E+10
-2267	2,914556E+09	2,914495E+09	3,517287E+09	3,517259E+09	5,829051E+09	7,034546E+09	1,286360E+10
-2266	2,914422E+09	2,914443E+09	3,517281E+09	3,517215E+09	5,828865E+09	7,034495E+09	1,286336E+10

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							
-2265	2,914526E+09	2,914521E+09	3,517279E+09	3,517316E+09	5,829047E+09	7,034595E+09	1,286364E+10
-2264	2,914464E+09	2,914488E+09	3,517278E+09	3,517231E+09	5,828952E+09	7,034509E+09	1,286346E+10
-2263	2,914357E+09	2,914430E+09	3,517267E+09	3,517270E+09	5,828787E+09	7,034537E+09	1,286332E+10
-2262	2,914475E+09	2,914461E+09	3,517299E+09	3,517312E+09	5,828937E+09	7,034610E+09	1,286355E+10
-2261	2,914364E+09	2,914362E+09	3,517290E+09	3,517191E+09	5,828726E+09	7,034481E+09	1,286321E+10
-2260	2,914365E+09	2,914354E+09	3,517256E+09	3,517291E+09	5,828719E+09	7,034547E+09	1,286327E+10
-2259	2,914445E+09	2,914401E+09	3,517241E+09	3,517291E+09	5,828846E+09	7,034531E+09	1,286338E+10
-2258	2,914294E+09	2,914336E+09	3,517236E+09	3,517200E+09	5,828630E+09	7,034436E+09	1,286307E+10
-2257	2,914381E+09	2,914397E+09	3,517248E+09	3,517288E+09	5,828779E+09	7,034536E+09	1,286331E+10
-2256	2,914414E+09	2,914392E+09	3,517262E+09	3,517199E+09	5,828807E+09	7,034461E+09	1,286327E+10
-2255	2,914317E+09	2,914357E+09	3,517266E+09	3,517216E+09	5,828675E+09	7,034482E+09	1,286316E+10
-2254	2,914454E+09	2,914447E+09	3,517291E+09	3,517315E+09	5,828901E+09	7,034606E+09	1,286351E+10
-2253	2,914401E+09	2,914436E+09	3,517279E+09	3,517216E+09	5,828837E+09	7,034496E+09	1,286333E+10
-2252	2,914389E+09	2,914452E+09	3,517261E+09	3,517305E+09	5,828841E+09	7,034566E+09	1,286341E+10
-2251	2,914539E+09	2,914521E+09	3,517268E+09	3,517326E+09	5,829060E+09	7,034594E+09	1,286365E+10
-2250	2,914457E+09	2,914461E+09	3,517288E+09	3,517197E+09	5,828918E+09	7,034485E+09	1,286340E+10
-2249	2,914530E+09	2,914512E+09	3,517285E+09	3,517299E+09	5,829041E+09	7,034584E+09	1,286363E+10
-2248	2,914597E+09	2,914546E+09	3,517269E+09	3,517254E+09	5,829143E+09	7,034524E+09	1,286367E+10
-2247	2,914454E+09	2,914507E+09	3,517259E+09	3,517240E+09	5,828961E+09	7,034499E+09	1,286346E+10
-2246	2,914528E+09	2,914561E+09	3,517284E+09	3,517336E+09	5,829088E+09	7,034621E+09	1,286371E+10
-2245	2,914493E+09	2,914519E+09	3,517284E+09	3,517212E+09	5,829012E+09	7,034496E+09	1,286351E+10
-2244	2,914415E+09	2,914449E+09	3,517280E+09	3,517257E+09	5,828864E+09	7,034537E+09	1,286340E+10
-2243	2,914526E+09	2,914467E+09	3,517279E+09	3,517314E+09	5,828993E+09	7,034592E+09	1,286359E+10
-2242	2,914418E+09	2,914395E+09	3,517278E+09	3,517188E+09	5,828813E+09	7,034466E+09	1,286328E+10
-2241	2,914389E+09	2,914419E+09	3,517243E+09	3,517294E+09	5,828808E+09	7,034537E+09	1,286335E+10
-2240	2,914474E+09	2,914453E+09	3,517221E+09	3,517273E+09	5,828927E+09	7,034494E+09	1,286342E+10
-2239	2,914343E+09	2,914389E+09	3,517237E+09	3,517192E+09	5,828733E+09	7,034429E+09	1,286316E+10
-2238	2,914412E+09	2,914427E+09	3,517278E+09	3,517285E+09	5,828839E+09	7,034563E+09	1,286340E+10
-2237	2,914460E+09	2,914437E+09	3,517273E+09	3,517192E+09	5,828897E+09	7,034465E+09	1,286336E+10
-2236	2,914365E+09	2,914413E+09	3,517265E+09	3,517237E+09	5,828778E+09	7,034502E+09	1,286328E+10
-2235	2,914488E+09	2,914491E+09	3,517262E+09	3,517346E+09	5,828979E+09	7,034608E+09	1,286359E+10
-2234	2,914464E+09	2,914476E+09	3,517276E+09	3,517211E+09	5,828940E+09	7,034488E+09	1,286343E+10
-2233	2,914448E+09	2,914499E+09	3,517268E+09	3,517285E+09	5,828947E+09	7,034553E+09	1,286350E+10
-2232	2,914616E+09	2,914555E+09	3,517259E+09	3,517293E+09	5,829172E+09	7,034552E+09	1,286372E+10
-2231	2,914534E+09	2,914519E+09	3,517274E+09	3,517193E+09	5,829053E+09	7,034467E+09	1,286352E+10
-2230	2,914553E+09	2,914577E+09	3,517290E+09	3,517315E+09	5,829130E+09	7,034605E+09	1,286374E+10
-2229	2,914621E+09	2,914622E+09	3,517267E+09	3,517255E+09	5,829242E+09	7,034522E+09	1,286376E+10
-2228	2,914482E+09	2,914560E+09	3,517276E+09	3,517243E+09	5,829042E+09	7,034520E+09	1,286356E+10
-2227	2,914555E+09	2,914576E+09	3,517292E+09	3,517341E+09	5,829131E+09	7,034633E+09	1,286376E+10
-2226	2,914554E+09	2,914516E+09	3,517302E+09	3,517198E+09	5,829071E+09	7,034500E+09	1,286357E+10
-2225	2,914451E+09	2,914473E+09	3,517278E+09	3,517259E+09	5,828924E+09	7,034537E+09	1,286346E+10
-2224	2,914563E+09	2,914502E+09	3,517233E+09	3,517319E+09	5,829065E+09	7,034552E+09	1,286362E+10
-2223	2,914458E+09	2,914453E+09	3,517232E+09	3,517200E+09	5,828911E+09	7,034431E+09	1,286334E+10
-2222	2,914405E+09	2,914467E+09	3,517241E+09	3,517287E+09	5,828872E+09	7,034529E+09	1,286340E+10
-2221	2,914517E+09	2,914499E+09	3,517229E+09	3,517230E+09	5,829016E+09	7,034459E+09	1,286348E+10
-2220	2,914404E+09	2,914430E+09	3,517263E+09	3,517171E+09	5,828834E+09	7,034434E+09	1,286327E+10
-2219	2,914452E+09	2,914459E+09	3,517281E+09	3,517296E+09	5,828911E+09	7,034577E+09	1,286349E+10
-2218	2,914509E+09	2,914482E+09	3,517281E+09	3,517206E+09	5,828991E+09	7,034488E+09	1,286348E+10
-2217	2,914396E+09	2,914479E+09	3,517267E+09	3,517258E+09	5,828875E+09	7,034525E+09	1,286340E+10

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							
-2216	2,914539E+09	2,914535E+09	3,517245E+09	3,517344E+09	5,829074E+09	7,034589E+09	1,286366E+10
-2215	2,914541E+09	2,914525E+09	3,517267E+09	3,517208E+09	5,829066E+09	7,034475E+09	1,286354E+10
-2214	2,914506E+09	2,914538E+09	3,517284E+09	3,517278E+09	5,829044E+09	7,034562E+09	1,286361E+10
-2213	2,914671E+09	2,914616E+09	3,517254E+09	3,517278E+09	5,829287E+09	7,034532E+09	1,286382E+10
-2212	2,914580E+09	2,914596E+09	3,517270E+09	3,517206E+09	5,829176E+09	7,034475E+09	1,286365E+10
-2211	2,914569E+09	2,914625E+09	3,517273E+09	3,517331E+09	5,829194E+09	7,034604E+09	1,286380E+10
-2210	2,914659E+09	2,914650E+09	3,517280E+09	3,517245E+09	5,829309E+09	7,034526E+09	1,286383E+10
-2209	2,914520E+09	2,914585E+09	3,517295E+09	3,517229E+09	5,829105E+09	7,034524E+09	1,286363E+10
-2208	2,914608E+09	2,914577E+09	3,517279E+09	3,517325E+09	5,829185E+09	7,034604E+09	1,286379E+10
-2207	2,914613E+09	2,914550E+09	3,517272E+09	3,517209E+09	5,829164E+09	7,034482E+09	1,286365E+10
-2206	2,914472E+09	2,914520E+09	3,517261E+09	3,517272E+09	5,828992E+09	7,034533E+09	1,286353E+10
-2205	2,914588E+09	2,914568E+09	3,517212E+09	3,517303E+09	5,829156E+09	7,034515E+09	1,286367E+10
-2204	2,914498E+09	2,914514E+09	3,517241E+09	3,517181E+09	5,829013E+09	7,034421E+09	1,286343E+10
-2203	2,914437E+09	2,914493E+09	3,517260E+09	3,517269E+09	5,828930E+09	7,034529E+09	1,286346E+10
-2202	2,914576E+09	2,914517E+09	3,517268E+09	3,517212E+09	5,829093E+09	7,034480E+09	1,286357E+10
-2201	2,914438E+09	2,914472E+09	3,517284E+09	3,517185E+09	5,828910E+09	7,034469E+09	1,286338E+10
-2200	2,914485E+09	2,914499E+09	3,517255E+09	3,517324E+09	5,828984E+09	7,034579E+09	1,286356E+10
-2199	2,914559E+09	2,914538E+09	3,517246E+09	3,517238E+09	5,829097E+09	7,034484E+09	1,286358E+10
-2198	2,914436E+09	2,914525E+09	3,517262E+09	3,517263E+09	5,828961E+09	7,034525E+09	1,286349E+10
-2197	2,914613E+09	2,914585E+09	3,517236E+09	3,517310E+09	5,829198E+09	7,034546E+09	1,286374E+10
-2196	2,914626E+09	2,914583E+09	3,517269E+09	3,517183E+09	5,829208E+09	7,034452E+09	1,286366E+10
-2195	2,914555E+09	2,914595E+09	3,517278E+09	3,517276E+09	5,829150E+09	7,034554E+09	1,286370E+10
-2194	2,914720E+09	2,914678E+09	3,517264E+09	3,517273E+09	5,829398E+09	7,034538E+09	1,286394E+10
-2193	2,914596E+09	2,914665E+09	3,517290E+09	3,517212E+09	5,829261E+09	7,034502E+09	1,286376E+10
-2192	2,914597E+09	2,914657E+09	3,517276E+09	3,517330E+09	5,829254E+09	7,034606E+09	1,286386E+10
-2191	2,914712E+09	2,914672E+09	3,517281E+09	3,517250E+09	5,829384E+09	7,034531E+09	1,286392E+10
-2190	2,914559E+09	2,914595E+09	3,517305E+09	3,517238E+09	5,829154E+09	7,034542E+09	1,286370E+10
-2189	2,914653E+09	2,914609E+09	3,517251E+09	3,517321E+09	5,829262E+09	7,034571E+09	1,286383E+10
-2188	2,914654E+09	2,914609E+09	3,517241E+09	3,517216E+09	5,829263E+09	7,034457E+09	1,286372E+10
-2187	2,914492E+09	2,914565E+09	3,517237E+09	3,517269E+09	5,829057E+09	7,034505E+09	1,286356E+10
-2186	2,914633E+09	2,914600E+09	3,517229E+09	3,517266E+09	5,829233E+09	7,034495E+09	1,286373E+10
-2185	2,914537E+09	2,914555E+09	3,517275E+09	3,517152E+09	5,829092E+09	7,034427E+09	1,286352E+10
-2184	2,914482E+09	2,914513E+09	3,517267E+09	3,517260E+09	5,828995E+09	7,034526E+09	1,286352E+10
-2183	2,914619E+09	2,914565E+09	3,517258E+09	3,517242E+09	5,829185E+09	7,034500E+09	1,286368E+10
-2182	2,914457E+09	2,914525E+09	3,517283E+09	3,517224E+09	5,828982E+09	7,034507E+09	1,286349E+10
-2181	2,914520E+09	2,914556E+09	3,517235E+09	3,517330E+09	5,829076E+09	7,034565E+09	1,286364E+10
-2180	2,914623E+09	2,914598E+09	3,517243E+09	3,517233E+09	5,829221E+09	7,034477E+09	1,286370E+10
-2179	2,914499E+09	2,914557E+09	3,517261E+09	3,517241E+09	5,829057E+09	7,034503E+09	1,286356E+10
-2178	2,914692E+09	2,914622E+09	3,517253E+09	3,517279E+09	5,829314E+09	7,034532E+09	1,286385E+10
-2177	2,914672E+09	2,914655E+09	3,517279E+09	3,517180E+09	5,829327E+09	7,034459E+09	1,286379E+10
-2176	2,914586E+09	2,914651E+09	3,517258E+09	3,517287E+09	5,829237E+09	7,034545E+09	1,286378E+10
-2175	2,914754E+09	2,914736E+09	3,517253E+09	3,517292E+09	5,829490E+09	7,034544E+09	1,286403E+10
-2174	2,914624E+09	2,914693E+09	3,517308E+09	3,517218E+09	5,829317E+09	7,034526E+09	1,286384E+10
-2173	2,914650E+09	2,914677E+09	3,517275E+09	3,517309E+09	5,829327E+09	7,034584E+09	1,286391E+10
-2172	2,914781E+09	2,914705E+09	3,517271E+09	3,517247E+09	5,829486E+09	7,034518E+09	1,286400E+10
-2171	2,914598E+09	2,914631E+09	3,517279E+09	3,517243E+09	5,829229E+09	7,034522E+09	1,286375E+10
-2170	2,914698E+09	2,914661E+09	3,517240E+09	3,517311E+09	5,829359E+09	7,034550E+09	1,286391E+10
-2169	2,914675E+09	2,914677E+09	3,517251E+09	3,517201E+09	5,829353E+09	7,034452E+09	1,286380E+10
-2168	2,914522E+09	2,914601E+09	3,517244E+09	3,517249E+09	5,829123E+09	7,034494E+09	1,286362E+10

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							
-2167	2,914678E+09	2,914632E+09	3,517247E+09	3,517259E+09	5,829310E+09	7,034506E+09	1,286382E+10
-2166	2,914562E+09	2,914577E+09	3,517306E+09	3,517170E+09	5,829139E+09	7,034476E+09	1,286361E+10
-2165	2,914511E+09	2,914554E+09	3,517252E+09	3,517280E+09	5,829065E+09	7,034533E+09	1,286360E+10
-2164	2,914656E+09	2,914621E+09	3,517228E+09	3,517270E+09	5,829276E+09	7,034499E+09	1,286377E+10
-2163	2,914490E+09	2,914562E+09	3,517255E+09	3,517232E+09	5,829052E+09	7,034488E+09	1,286354E+10
-2162	2,914596E+09	2,914587E+09	3,517234E+09	3,517293E+09	5,829184E+09	7,034527E+09	1,286371E+10
-2161	2,914692E+09	2,914649E+09	3,517258E+09	3,517194E+09	5,829341E+09	7,034452E+09	1,286379E+10
-2160	2,914569E+09	2,914604E+09	3,517256E+09	3,517221E+09	5,829173E+09	7,034477E+09	1,286365E+10
-2159	2,914745E+09	2,914696E+09	3,517246E+09	3,517286E+09	5,829440E+09	7,034532E+09	1,286397E+10
-2158	2,914690E+09	2,914728E+09	3,517295E+09	3,517205E+09	5,829417E+09	7,034500E+09	1,286392E+10
-2157	2,914612E+09	2,914710E+09	3,517261E+09	3,517291E+09	5,829322E+09	7,034552E+09	1,286387E+10
-2156	2,914800E+09	2,914783E+09	3,517264E+09	3,517296E+09	5,829583E+09	7,034560E+09	1,286414E+10
-2155	2,914675E+09	2,914704E+09	3,517314E+09	3,517220E+09	5,829379E+09	7,034534E+09	1,286391E+10
-2154	2,914720E+09	2,914692E+09	3,517275E+09	3,517299E+09	5,829413E+09	7,034574E+09	1,286399E+10
-2153	2,914819E+09	2,914763E+09	3,517259E+09	3,517250E+09	5,829582E+09	7,034508E+09	1,286409E+10
-2152	2,914630E+09	2,914680E+09	3,517240E+09	3,517243E+09	5,829310E+09	7,034483E+09	1,286379E+10
-2151	2,914730E+09	2,914716E+09	3,517224E+09	3,517302E+09	5,829446E+09	7,034526E+09	1,286397E+10
-2150	2,914700E+09	2,914713E+09	3,517276E+09	3,517188E+09	5,829413E+09	7,034465E+09	1,286388E+10
-2149	2,914560E+09	2,914623E+09	3,517255E+09	3,517226E+09	5,829183E+09	7,034481E+09	1,286366E+10
-2148	2,914720E+09	2,914672E+09	3,517251E+09	3,517268E+09	5,829392E+09	7,034518E+09	1,286391E+10
-2147	2,914587E+09	2,914607E+09	3,517292E+09	3,517194E+09	5,829195E+09	7,034486E+09	1,286368E+10
-2146	2,914553E+09	2,914592E+09	3,517241E+09	3,517284E+09	5,829145E+09	7,034526E+09	1,286367E+10
-2145	2,914694E+09	2,914680E+09	3,517231E+09	3,517262E+09	5,829374E+09	7,034493E+09	1,286387E+10
-2144	2,914552E+09	2,914595E+09	3,517245E+09	3,517209E+09	5,829148E+09	7,034454E+09	1,286360E+10
-2143	2,914673E+09	2,914632E+09	3,517237E+09	3,517273E+09	5,829305E+09	7,034509E+09	1,286381E+10
-2142	2,914741E+09	2,914701E+09	3,517276E+09	3,517197E+09	5,829442E+09	7,034473E+09	1,286392E+10
-2141	2,914607E+09	2,914672E+09	3,517243E+09	3,517229E+09	5,829279E+09	7,034472E+09	1,286375E+10
-2140	2,914776E+09	2,914776E+09	3,517233E+09	3,517308E+09	5,829552E+09	7,034541E+09	1,286409E+10
-2139	2,914718E+09	2,914769E+09	3,517295E+09	3,517219E+09	5,829487E+09	7,034514E+09	1,286400E+10
-2138	2,914679E+09	2,914735E+09	3,517275E+09	3,517273E+09	5,829414E+09	7,034548E+09	1,286396E+10
-2137	2,914862E+09	2,914819E+09	3,517278E+09	3,517278E+09	5,829682E+09	7,034556E+09	1,286424E+10
-2136	2,914740E+09	2,914736E+09	3,517290E+09	3,517219E+09	5,829475E+09	7,034509E+09	1,286398E+10
-2135	2,914773E+09	2,914752E+09	3,517248E+09	3,517306E+09	5,829526E+09	7,034554E+09	1,286408E+10
-2134	2,914835E+09	2,914825E+09	3,517260E+09	3,517260E+09	5,829660E+09	7,034519E+09	1,286418E+10
-2133	2,914655E+09	2,914734E+09	3,517239E+09	3,517227E+09	5,829388E+09	7,034466E+09	1,286385E+10
-2132	2,914765E+09	2,914758E+09	3,517238E+09	3,517283E+09	5,829523E+09	7,034520E+09	1,286404E+10
-2131	2,914731E+09	2,914720E+09	3,517297E+09	3,517186E+09	5,829451E+09	7,034482E+09	1,286393E+10
-2130	2,914609E+09	2,914636E+09	3,517263E+09	3,517226E+09	5,829245E+09	7,034489E+09	1,286373E+10
-2129	2,914740E+09	2,914718E+09	3,517243E+09	3,517283E+09	5,829458E+09	7,034526E+09	1,286398E+10
-2128	2,914621E+09	2,914642E+09	3,517252E+09	3,517211E+09	5,829263E+09	7,034464E+09	1,286373E+10
-2127	2,914607E+09	2,914633E+09	3,517218E+09	3,517275E+09	5,829241E+09	7,034493E+09	1,286373E+10
-2126	2,914747E+09	2,914717E+09	3,517242E+09	3,517244E+09	5,829464E+09	7,034486E+09	1,286395E+10
-2125	2,914621E+09	2,914642E+09	3,517240E+09	3,517178E+09	5,829264E+09	7,034418E+09	1,286368E+10
-2124	2,914731E+09	2,914708E+09	3,517232E+09	3,517268E+09	5,829439E+09	7,034500E+09	1,286394E+10
-2123	2,914773E+09	2,914768E+09	3,517275E+09	3,517218E+09	5,829541E+09	7,034493E+09	1,286403E+10
-2122	2,914648E+09	2,914735E+09	3,517255E+09	3,517235E+09	5,829383E+09	7,034491E+09	1,286387E+10
-2121	2,914806E+09	2,914841E+09	3,517261E+09	3,517309E+09	5,829647E+09	7,034569E+09	1,286422E+10
-2120	2,914779E+09	2,914792E+09	3,517298E+09	3,517219E+09	5,829571E+09	7,034517E+09	1,286409E+10
-2119	2,914754E+09	2,914759E+09	3,517277E+09	3,517272E+09	5,829513E+09	7,034549E+09	1,286406E+10

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	2,914912E+09	2,914858E+09	3,517278E+09	3,517295E+09	5,829769E+09	7,034574E+09	1,286434E+10
-2117	2,914779E+09	2,914790E+09	3,517249E+09	3,517220E+09	5,829569E+09	7,034469E+09	1,286404E+10
-2116	2,914806E+09	2,914823E+09	3,517217E+09	3,517303E+09	5,829629E+09	7,034520E+09	1,286415E+10
-2115	2,914863E+09	2,914856E+09	3,517258E+09	3,517244E+09	5,829719E+09	7,034501E+09	1,286422E+10
-2114	2,914706E+09	2,914751E+09	3,517260E+09	3,517189E+09	5,829458E+09	7,034448E+09	1,286391E+10
-2113	2,914799E+09	2,914793E+09	3,517266E+09	3,517262E+09	5,829592E+09	7,034527E+09	1,286412E+10
-2112	2,914769E+09	2,914741E+09	3,517282E+09	3,517199E+09	5,829511E+09	7,034481E+09	1,286399E+10
-2111	2,914645E+09	2,914679E+09	3,517244E+09	3,517247E+09	5,829325E+09	7,034492E+09	1,286382E+10
-2110	2,914760E+09	2,914763E+09	3,517240E+09	3,517305E+09	5,829523E+09	7,034545E+09	1,286407E+10
-2109	2,914663E+09	2,914687E+09	3,517234E+09	3,517199E+09	5,829350E+09	7,034433E+09	1,286378E+10
-2108	2,914671E+09	2,914688E+09	3,517213E+09	3,517255E+09	5,829359E+09	7,034467E+09	1,286383E+10
-2107	2,914803E+09	2,914751E+09	3,517252E+09	3,517235E+09	5,829554E+09	7,034487E+09	1,286404E+10
-2106	2,914682E+09	2,914697E+09	3,517247E+09	3,517172E+09	5,829380E+09	7,034419E+09	1,286380E+10
-2105	2,914755E+09	2,914791E+09	3,517239E+09	3,517274E+09	5,829546E+09	7,034513E+09	1,286406E+10
-2104	2,914807E+09	2,914821E+09	3,517262E+09	3,517238E+09	5,829628E+09	7,034500E+09	1,286413E+10
-2103	2,914708E+09	2,914773E+09	3,517262E+09	3,517236E+09	5,829481E+09	7,034499E+09	1,286398E+10
-2102	2,914860E+09	2,914864E+09	3,517284E+09	3,517308E+09	5,829724E+09	7,034591E+09	1,286432E+10
-2101	2,914851E+09	2,914824E+09	3,517282E+09	3,517210E+09	5,829675E+09	7,034493E+09	1,286417E+10
-2100	2,914819E+09	2,914823E+09	3,517242E+09	3,517273E+09	5,829642E+09	7,034515E+09	1,286416E+10
-2099	2,914945E+09	2,914911E+09	3,517257E+09	3,517304E+09	5,829857E+09	7,034561E+09	1,286442E+10
-2098	2,914822E+09	2,914851E+09	3,517246E+09	3,517201E+09	5,829673E+09	7,034447E+09	1,286412E+10
-2097	2,914828E+09	2,914883E+09	3,517245E+09	3,517270E+09	5,829710E+09	7,034515E+09	1,286423E+10
-2096	2,914905E+09	2,914874E+09	3,517271E+09	3,517232E+09	5,829778E+09	7,034503E+09	1,286428E+10
-2095	2,914756E+09	2,914763E+09	3,517277E+09	3,517190E+09	5,829520E+09	7,034467E+09	1,286399E+10
-2094	2,914814E+09	2,914818E+09	3,517274E+09	3,517293E+09	5,829633E+09	7,034567E+09	1,286420E+10
-2093	2,914790E+09	2,914781E+09	3,517242E+09	3,517223E+09	5,829571E+09	7,034465E+09	1,286404E+10
-2092	2,914680E+09	2,914735E+09	3,517203E+09	3,517255E+09	5,829415E+09	7,034458E+09	1,286387E+10
-2091	2,914805E+09	2,914788E+09	3,517230E+09	3,517294E+09	5,829593E+09	7,034524E+09	1,286412E+10
-2090	2,914739E+09	2,914721E+09	3,517238E+09	3,517156E+09	5,829461E+09	7,034394E+09	1,286385E+10
-2089	2,914726E+09	2,914752E+09	3,517235E+09	3,517220E+09	5,829478E+09	7,034455E+09	1,286393E+10
-2088	2,914854E+09	2,914806E+09	3,517246E+09	3,517240E+09	5,829660E+09	7,034486E+09	1,286415E+10
-2087	2,914724E+09	2,914763E+09	3,517256E+09	3,517188E+09	5,829486E+09	7,034444E+09	1,286393E+10
-2086	2,914774E+09	2,914850E+09	3,517268E+09	3,517300E+09	5,829624E+09	7,034568E+09	1,286419E+10
-2085	2,914852E+09	2,914858E+09	3,517261E+09	3,517239E+09	5,829710E+09	7,034500E+09	1,286421E+10
-2084	2,914778E+09	2,914813E+09	3,517255E+09	3,517235E+09	5,829591E+09	7,034490E+09	1,286408E+10
-2083	2,914928E+09	2,914883E+09	3,517278E+09	3,517315E+09	5,829811E+09	7,034593E+09	1,286440E+10
-2082	2,914917E+09	2,914876E+09	3,517257E+09	3,517205E+09	5,829793E+09	7,034462E+09	1,286425E+10
-2081	2,914853E+09	2,914908E+09	3,517227E+09	3,517262E+09	5,829760E+09	7,034489E+09	1,286425E+10
-2080	2,914983E+09	2,914961E+09	3,517235E+09	3,517295E+09	5,829944E+09	7,034531E+09	1,286447E+10
-2079	2,914871E+09	2,914888E+09	3,517264E+09	3,517176E+09	5,829759E+09	7,034440E+09	1,286420E+10
-2078	2,914857E+09	2,914908E+09	3,517283E+09	3,517260E+09	5,829765E+09	7,034543E+09	1,286431E+10
-2077	2,914939E+09	2,914898E+09	3,517266E+09	3,517233E+09	5,829837E+09	7,034499E+09	1,286434E+10
-2076	2,914791E+09	2,914814E+09	3,517251E+09	3,517214E+09	5,829605E+09	7,034466E+09	1,286407E+10
-2075	2,914834E+09	2,914848E+09	3,517258E+09	3,517322E+09	5,829682E+09	7,034580E+09	1,286426E+10
-2074	2,914832E+09	2,914825E+09	3,517231E+09	3,517214E+09	5,829657E+09	7,034445E+09	1,286410E+10
-2073	2,914723E+09	2,914790E+09	3,517217E+09	3,517218E+09	5,829513E+09	7,034435E+09	1,286395E+10
-2072	2,914867E+09	2,914814E+09	3,517232E+09	3,517272E+09	5,829681E+09	7,034505E+09	1,286419E+10
-2071	2,914808E+09	2,914759E+09	3,517256E+09	3,517145E+09	5,829567E+09	7,034401E+09	1,286397E+10
-2070	2,914747E+09	2,914807E+09	3,517252E+09	3,517239E+09	5,829553E+09	7,034491E+09	1,286404E+10

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							
-2069	2,914874E+09	2,914866E+09	3,517225E+09	3,517261E+09	5,829740E+09	7,034486E+09	1,286423E+10
-2068	2,914766E+09	2,914821E+09	3,517236E+09	3,517201E+09	5,829586E+09	7,034437E+09	1,286402E+10
-2067	2,914822E+09	2,914866E+09	3,517273E+09	3,517304E+09	5,829688E+09	7,034577E+09	1,286426E+10
-2066	2,914933E+09	2,914891E+09	3,517258E+09	3,517218E+09	5,829824E+09	7,034476E+09	1,286430E+10
-2065	2,914846E+09	2,914877E+09	3,517253E+09	3,517213E+09	5,829723E+09	7,034465E+09	1,286419E+10
-2064	2,914988E+09	2,914941E+09	3,517245E+09	3,517321E+09	5,829930E+09	7,034567E+09	1,286450E+10
-2063	2,914970E+09	2,914945E+09	3,517251E+09	3,517201E+09	5,829915E+09	7,034452E+09	1,286437E+10
-2062	2,914870E+09	2,914972E+09	3,517255E+09	3,517258E+09	5,829843E+09	7,034513E+09	1,286436E+10
-2061	2,915013E+09	2,915002E+09	3,517246E+09	3,517279E+09	5,830015E+09	7,034525E+09	1,286454E+10
-2060	2,914919E+09	2,914921E+09	3,517274E+09	3,517174E+09	5,829840E+09	7,034448E+09	1,286429E+10
-2059	2,914889E+09	2,914913E+09	3,517295E+09	3,517285E+09	5,829802E+09	7,034579E+09	1,286438E+10
-2058	2,914973E+09	2,914933E+09	3,517244E+09	3,517249E+09	5,829906E+09	7,034493E+09	1,286440E+10
-2057	2,914814E+09	2,914871E+09	3,517233E+09	3,517215E+09	5,829685E+09	7,034448E+09	1,286413E+10
-2056	2,914880E+09	2,914871E+09	3,517227E+09	3,517317E+09	5,829751E+09	7,034544E+09	1,286430E+10
-2055	2,914898E+09	2,914847E+09	3,517238E+09	3,517179E+09	5,829746E+09	7,034416E+09	1,286416E+10
-2054	2,914772E+09	2,914828E+09	3,517245E+09	3,517194E+09	5,829600E+09	7,034440E+09	1,286404E+10
-2053	2,914912E+09	2,914859E+09	3,517222E+09	3,517258E+09	5,829771E+09	7,034479E+09	1,286425E+10
-2052	2,914844E+09	2,914836E+09	3,517239E+09	3,517162E+09	5,829679E+09	7,034401E+09	1,286408E+10
-2051	2,914765E+09	2,914855E+09	3,517258E+09	3,517271E+09	5,829620E+09	7,034529E+09	1,286415E+10
-2050	2,914910E+09	2,914919E+09	3,517228E+09	3,517262E+09	5,829829E+09	7,034490E+09	1,286432E+10
-2049	2,914817E+09	2,914875E+09	3,517256E+09	3,517185E+09	5,829693E+09	7,034440E+09	1,286413E+10
-2048	2,914901E+09	2,914883E+09	3,517265E+09	3,517303E+09	5,829785E+09	7,034567E+09	1,286435E+10
-2047	2,915015E+09	2,914930E+09	3,517257E+09	3,517214E+09	5,829945E+09	7,034472E+09	1,286442E+10
-2046	2,914885E+09	2,914949E+09	3,517249E+09	3,517223E+09	5,829834E+09	7,034472E+09	1,286431E+10
-2045	2,915020E+09	2,915011E+09	3,517215E+09	3,517318E+09	5,830031E+09	7,034533E+09	1,286456E+10
-2044	2,915014E+09	2,915014E+09	3,517240E+09	3,517192E+09	5,830029E+09	7,034432E+09	1,286446E+10
-2043	2,914909E+09	2,914991E+09	3,517282E+09	3,517250E+09	5,829900E+09	7,034533E+09	1,286443E+10
-2042	2,915063E+09	2,915031E+09	3,517261E+09	3,517262E+09	5,830094E+09	7,034523E+09	1,286462E+10
-2041	2,914958E+09	2,914969E+09	3,517285E+09	3,517171E+09	5,829928E+09	7,034456E+09	1,286438E+10
-2040	2,914923E+09	2,914942E+09	3,517268E+09	3,517312E+09	5,829865E+09	7,034580E+09	1,286445E+10
-2039	2,915015E+09	2,914970E+09	3,517238E+09	3,517256E+09	5,829986E+09	7,034494E+09	1,286448E+10
-2038	2,914838E+09	2,914912E+09	3,517243E+09	3,517206E+09	5,829750E+09	7,034449E+09	1,286420E+10
-2037	2,914923E+09	2,914902E+09	3,517216E+09	3,517289E+09	5,829825E+09	7,034505E+09	1,286433E+10
-2036	2,914960E+09	2,914891E+09	3,517229E+09	3,517163E+09	5,829850E+09	7,034392E+09	1,286424E+10
-2035	2,914803E+09	2,914856E+09	3,517254E+09	3,517208E+09	5,829659E+09	7,034463E+09	1,286412E+10
-2034	2,914932E+09	2,914925E+09	3,517208E+09	3,517267E+09	5,829857E+09	7,034475E+09	1,286433E+10
-2033	2,914864E+09	2,914907E+09	3,517239E+09	3,517165E+09	5,829772E+09	7,034404E+09	1,286418E+10
-2032	2,914811E+09	2,914879E+09	3,517248E+09	3,517278E+09	5,829690E+09	7,034526E+09	1,286422E+10
-2031	2,914987E+09	2,914938E+09	3,517243E+09	3,517244E+09	5,829925E+09	7,034486E+09	1,286441E+10
-2030	2,914882E+09	2,914916E+09	3,517271E+09	3,517175E+09	5,829798E+09	7,034446E+09	1,286424E+10
-2029	2,914966E+09	2,914940E+09	3,517234E+09	3,517298E+09	5,829906E+09	7,034532E+09	1,286444E+10
-2028	2,915073E+09	2,915018E+09	3,517226E+09	3,517222E+09	5,830090E+09	7,034448E+09	1,286454E+10
-2027	2,914919E+09	2,915010E+09	3,517259E+09	3,517235E+09	5,829929E+09	7,034493E+09	1,286442E+10
-2026	2,915055E+09	2,915077E+09	3,517229E+09	3,517295E+09	5,830132E+09	7,034524E+09	1,286466E+10
-2025	2,915059E+09	2,915069E+09	3,517278E+09	3,517170E+09	5,830128E+09	7,034448E+09	1,286458E+10
-2024	2,914966E+09	2,914998E+09	3,517292E+09	3,517263E+09	5,829965E+09	7,034555E+09	1,286452E+10
-2023	2,915112E+09	2,915049E+09	3,517266E+09	3,517276E+09	5,830161E+09	7,034543E+09	1,286470E+10
-2022	2,914977E+09	2,915016E+09	3,517274E+09	3,517200E+09	5,829993E+09	7,034474E+09	1,286447E+10
-2021	2,914952E+09	2,914976E+09	3,517217E+09	3,517313E+09	5,829929E+09	7,034530E+09	1,286446E+10

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							
-2020	2,915063E+09	2,915013E+09	3,517205E+09	3,517238E+09	5,830076E+09	7,034443E+09	1,286452E+10
-2019	2,914887E+09	2,914931E+09	3,517252E+09	3,517184E+09	5,829817E+09	7,034436E+09	1,286425E+10
-2018	2,914969E+09	2,914948E+09	3,517215E+09	3,517253E+09	5,829918E+09	7,034467E+09	1,286438E+10
-2017	2,914995E+09	2,914964E+09	3,517238E+09	3,517150E+09	5,829959E+09	7,034389E+09	1,286435E+10
-2016	2,914832E+09	2,914899E+09	3,517245E+09	3,517234E+09	5,829731E+09	7,034479E+09	1,286421E+10
-2015	2,914964E+09	2,914967E+09	3,517227E+09	3,517275E+09	5,829931E+09	7,034502E+09	1,286443E+10
-2014	2,914893E+09	2,914952E+09	3,517268E+09	3,517171E+09	5,829845E+09	7,034439E+09	1,286428E+10
-2013	2,914871E+09	2,914903E+09	3,517239E+09	3,517269E+09	5,829774E+09	7,034508E+09	1,286428E+10
-2012	2,915068E+09	2,914982E+09	3,517226E+09	3,517246E+09	5,830050E+09	7,034472E+09	1,286452E+10
-2011	2,914940E+09	2,914959E+09	3,517263E+09	3,517194E+09	5,829899E+09	7,034457E+09	1,286436E+10
-2010	2,915009E+09	2,915026E+09	3,517205E+09	3,517295E+09	5,830034E+09	7,034500E+09	1,286453E+10
-2009	2,915115E+09	2,915107E+09	3,517226E+09	3,517206E+09	5,830222E+09	7,034433E+09	1,286465E+10
-2008	2,914969E+09	2,915044E+09	3,517266E+09	3,517229E+09	5,830014E+09	7,034495E+09	1,286451E+10
-2007	2,915118E+09	2,915102E+09	3,517266E+09	3,517274E+09	5,830220E+09	7,034540E+09	1,286476E+10
-2006	2,915101E+09	2,915103E+09	3,517303E+09	3,517173E+09	5,830205E+09	7,034476E+09	1,286468E+10
-2005	2,915003E+09	2,915033E+09	3,517261E+09	3,517279E+09	5,830037E+09	7,034540E+09	1,286458E+10
-2004	2,915152E+09	2,915105E+09	3,517224E+09	3,517299E+09	5,830257E+09	7,034523E+09	1,286478E+10
-2003	2,915003E+09	2,915047E+09	3,517264E+09	3,517213E+09	5,830049E+09	7,034477E+09	1,286453E+10
-2002	2,914988E+09	2,915027E+09	3,517204E+09	3,517280E+09	5,830015E+09	7,034484E+09	1,286450E+10
-2001	2,915115E+09	2,915061E+09	3,517221E+09	3,517197E+09	5,830176E+09	7,034417E+09	1,286459E+10
-2000	2,914939E+09	2,914947E+09	3,517257E+09	3,517180E+09	5,829886E+09	7,034437E+09	1,286432E+10
-1999	2,915005E+09	2,914985E+09	3,517230E+09	3,517251E+09	5,829990E+09	7,034481E+09	1,286447E+10
-1998	2,915002E+09	2,915023E+09	3,517247E+09	3,517173E+09	5,830025E+09	7,034420E+09	1,286445E+10
-1997	2,914858E+09	2,914934E+09	3,517222E+09	3,517245E+09	5,829791E+09	7,034467E+09	1,286426E+10
-1996	2,915020E+09	2,915000E+09	3,517213E+09	3,517274E+09	5,830020E+09	7,034488E+09	1,286451E+10
-1995	2,914959E+09	2,914966E+09	3,517279E+09	3,517173E+09	5,829925E+09	7,034451E+09	1,286438E+10
-1994	2,914941E+09	2,914960E+09	3,517219E+09	3,517249E+09	5,829901E+09	7,034468E+09	1,286437E+10
-1993	2,915130E+09	2,915071E+09	3,517216E+09	3,517238E+09	5,830201E+09	7,034454E+09	1,286465E+10
-1992	2,914994E+09	2,915027E+09	3,517248E+09	3,517209E+09	5,830022E+09	7,034457E+09	1,286448E+10
-1991	2,915053E+09	2,915089E+09	3,517228E+09	3,517278E+09	5,830142E+09	7,034506E+09	1,286465E+10
-1990	2,915148E+09	2,915169E+09	3,517267E+09	3,517199E+09	5,830316E+09	7,034467E+09	1,286478E+10
-1989	2,915024E+09	2,915067E+09	3,517270E+09	3,517224E+09	5,830091E+09	7,034494E+09	1,286458E+10
-1988	2,915173E+09	2,915134E+09	3,517257E+09	3,517289E+09	5,830306E+09	7,034546E+09	1,286485E+10
-1987	2,915135E+09	2,915132E+09	3,517292E+09	3,517213E+09	5,830267E+09	7,034505E+09	1,286477E+10
-1986	2,915031E+09	2,915092E+09	3,517215E+09	3,517282E+09	5,830123E+09	7,034496E+09	1,286462E+10
-1985	2,915193E+09	2,915163E+09	3,517206E+09	3,517278E+09	5,830356E+09	7,034484E+09	1,286484E+10
-1984	2,915060E+09	2,915062E+09	3,517252E+09	3,517189E+09	5,830123E+09	7,034441E+09	1,286456E+10
-1983	2,915050E+09	2,915049E+09	3,517229E+09	3,517232E+09	5,830099E+09	7,034460E+09	1,286456E+10
-1982	2,915149E+09	2,915111E+09	3,517246E+09	3,517184E+09	5,830260E+09	7,034429E+09	1,286469E+10
-1981	2,914966E+09	2,914992E+09	3,517242E+09	3,517191E+09	5,829957E+09	7,034433E+09	1,286439E+10
-1980	2,915026E+09	2,915044E+09	3,517218E+09	3,517277E+09	5,830070E+09	7,034495E+09	1,286456E+10
-1979	2,915020E+09	2,915052E+09	3,517263E+09	3,517202E+09	5,830071E+09	7,034465E+09	1,286454E+10
-1978	2,914898E+09	2,914977E+09	3,517217E+09	3,517233E+09	5,829875E+09	7,034449E+09	1,286432E+10
-1977	2,915093E+09	2,915042E+09	3,517220E+09	3,517258E+09	5,830135E+09	7,034479E+09	1,286461E+10
-1976	2,915033E+09	2,914992E+09	3,517261E+09	3,517184E+09	5,830025E+09	7,034445E+09	1,286447E+10
-1975	2,915002E+09	2,915023E+09	3,517212E+09	3,517243E+09	5,830025E+09	7,034456E+09	1,286448E+10
-1974	2,915161E+09	2,915155E+09	3,517213E+09	3,517238E+09	5,830316E+09	7,034451E+09	1,286477E+10
-1973	2,915035E+09	2,915082E+09	3,517233E+09	3,517198E+09	5,830117E+09	7,034431E+09	1,286455E+10
-1972	2,915110E+09	2,915137E+09	3,517234E+09	3,517264E+09	5,830247E+09	7,034498E+09	1,286474E+10

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	2,915198E+09	2,915188E+09	3,517294E+09	3,517208E+09	5,830386E+09	7,034501E+09	1,286489E+10
-1970	2,915073E+09	2,915117E+09	3,517256E+09	3,517223E+09	5,830190E+09	7,034479E+09	1,286467E+10
-1969	2,915222E+09	2,915197E+09	3,517242E+09	3,517297E+09	5,830418E+09	7,034539E+09	1,286496E+10
-1968	2,915180E+09	2,915169E+09	3,517266E+09	3,517233E+09	5,830348E+09	7,034499E+09	1,286485E+10
-1967	2,915079E+09	2,915134E+09	3,517221E+09	3,517254E+09	5,830213E+09	7,034475E+09	1,286469E+10
-1966	2,915231E+09	2,915210E+09	3,517230E+09	3,517249E+09	5,830441E+09	7,034479E+09	1,286492E+10
-1965	2,915113E+09	2,915085E+09	3,517251E+09	3,517168E+09	5,830198E+09	7,034419E+09	1,286462E+10
-1964	2,915091E+09	2,915089E+09	3,517227E+09	3,517233E+09	5,830180E+09	7,034461E+09	1,286464E+10
-1963	2,915159E+09	2,915149E+09	3,517251E+09	3,517223E+09	5,830308E+09	7,034473E+09	1,286478E+10
-1962	2,914976E+09	2,915050E+09	3,517216E+09	3,517204E+09	5,830026E+09	7,034420E+09	1,286445E+10
-1961	2,915060E+09	2,915089E+09	3,517218E+09	3,517274E+09	5,830149E+09	7,034492E+09	1,286464E+10
-1960	2,915083E+09	2,915059E+09	3,517259E+09	3,517204E+09	5,830141E+09	7,034463E+09	1,286460E+10
-1959	2,914976E+09	2,914999E+09	3,517223E+09	3,517199E+09	5,829975E+09	7,034422E+09	1,286440E+10
-1958	2,915149E+09	2,915105E+09	3,517221E+09	3,517249E+09	5,830254E+09	7,034470E+09	1,286472E+10
-1957	2,915088E+09	2,915058E+09	3,517227E+09	3,517184E+09	5,830146E+09	7,034410E+09	1,286456E+10
-1956	2,915044E+09	2,915102E+09	3,517202E+09	3,517242E+09	5,830146E+09	7,034444E+09	1,286459E+10
-1955	2,915190E+09	2,915210E+09	3,517243E+09	3,517247E+09	5,830399E+09	7,034490E+09	1,286489E+10
-1954	2,915078E+09	2,915137E+09	3,517247E+09	3,517180E+09	5,830215E+09	7,034427E+09	1,286464E+10
-1953	2,915172E+09	2,915179E+09	3,517258E+09	3,517259E+09	5,830351E+09	7,034517E+09	1,286487E+10
-1952	2,915256E+09	2,915207E+09	3,517284E+09	3,517239E+09	5,830463E+09	7,034524E+09	1,286499E+10
-1951	2,915123E+09	2,915163E+09	3,517241E+09	3,517230E+09	5,830286E+09	7,034471E+09	1,286476E+10
-1950	2,915254E+09	2,915259E+09	3,517227E+09	3,517301E+09	5,830513E+09	7,034528E+09	1,286504E+10
-1949	2,915231E+09	2,915203E+09	3,517236E+09	3,517213E+09	5,830434E+09	7,034449E+09	1,286488E+10
-1948	2,915140E+09	2,915173E+09	3,517219E+09	3,517221E+09	5,830313E+09	7,034440E+09	1,286475E+10
-1947	2,915272E+09	2,915236E+09	3,517253E+09	3,517242E+09	5,830508E+09	7,034495E+09	1,286500E+10
-1946	2,915138E+09	2,915146E+09	3,517244E+09	3,517162E+09	5,830285E+09	7,034406E+09	1,286469E+10
-1945	2,915113E+09	2,915155E+09	3,517230E+09	3,517248E+09	5,830268E+09	7,034478E+09	1,286475E+10
-1944	2,915175E+09	2,915175E+09	3,517245E+09	3,517255E+09	5,830351E+09	7,034500E+09	1,286485E+10
-1943	2,915014E+09	2,915077E+09	3,517232E+09	3,517193E+09	5,830091E+09	7,034425E+09	1,286452E+10
-1942	2,915108E+09	2,915115E+09	3,517233E+09	3,517257E+09	5,830223E+09	7,034490E+09	1,286471E+10
-1941	2,915151E+09	2,915072E+09	3,517238E+09	3,517192E+09	5,830224E+09	7,034430E+09	1,286465E+10
-1940	2,915039E+09	2,915054E+09	3,517201E+09	3,517196E+09	5,830093E+09	7,034397E+09	1,286449E+10
-1939	2,915179E+09	2,915167E+09	3,517212E+09	3,517269E+09	5,830346E+09	7,034480E+09	1,286483E+10
-1938	2,915116E+09	2,915142E+09	3,517205E+09	3,517173E+09	5,830259E+09	7,034378E+09	1,286464E+10
-1937	2,915095E+09	2,915164E+09	3,517218E+09	3,517223E+09	5,830259E+09	7,034441E+09	1,286470E+10
-1936	2,915248E+09	2,915230E+09	3,517261E+09	3,517247E+09	5,830478E+09	7,034508E+09	1,286499E+10
-1935	2,915150E+09	2,915170E+09	3,517270E+09	3,517165E+09	5,830320E+09	7,034436E+09	1,286476E+10
-1934	2,915220E+09	2,915238E+09	3,517264E+09	3,517271E+09	5,830458E+09	7,034535E+09	1,286499E+10
-1933	2,915307E+09	2,915259E+09	3,517248E+09	3,517260E+09	5,830567E+09	7,034508E+09	1,286507E+10
-1932	2,915173E+09	2,915227E+09	3,517220E+09	3,517231E+09	5,830400E+09	7,034451E+09	1,286485E+10
-1931	2,915289E+09	2,915304E+09	3,517240E+09	3,517301E+09	5,830593E+09	7,034541E+09	1,286513E+10
-1930	2,915276E+09	2,915256E+09	3,517235E+09	3,517181E+09	5,830532E+09	7,034416E+09	1,286495E+10
-1929	2,915191E+09	2,915216E+09	3,517239E+09	3,517205E+09	5,830407E+09	7,034444E+09	1,286485E+10
-1928	2,915300E+09	2,915262E+09	3,517254E+09	3,517267E+09	5,830563E+09	7,034521E+09	1,286508E+10
-1927	2,915161E+09	2,915186E+09	3,517243E+09	3,517167E+09	5,830347E+09	7,034409E+09	1,286476E+10
-1926	2,915123E+09	2,915197E+09	3,517231E+09	3,517256E+09	5,830320E+09	7,034487E+09	1,286481E+10
-1925	2,915219E+09	2,915184E+09	3,517222E+09	3,517247E+09	5,830404E+09	7,034470E+09	1,286487E+10
-1924	2,915080E+09	2,915096E+09	3,517222E+09	3,517168E+09	5,830176E+09	7,034390E+09	1,286457E+10
-1923	2,915162E+09	2,915143E+09	3,517235E+09	3,517258E+09	5,830305E+09	7,034493E+09	1,286480E+10

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							
-1922	2,915197E+09	2,915146E+09	3,517207E+09	3,517179E+09	5,830343E+09	7,034386E+09	1,286473E+10
-1921	2,915085E+09	2,915140E+09	3,517196E+09	3,517193E+09	5,830224E+09	7,034390E+09	1,286461E+10
-1920	2,915209E+09	2,915222E+09	3,517219E+09	3,517279E+09	5,830431E+09	7,034498E+09	1,286493E+10
-1919	2,915163E+09	2,915196E+09	3,517240E+09	3,517151E+09	5,830359E+09	7,034392E+09	1,286475E+10
-1918	2,915143E+09	2,915210E+09	3,517258E+09	3,517218E+09	5,830353E+09	7,034475E+09	1,286483E+10
-1917	2,915311E+09	2,915252E+09	3,517254E+09	3,517262E+09	5,830563E+09	7,034516E+09	1,286508E+10
-1916	2,915211E+09	2,915221E+09	3,517250E+09	3,517189E+09	5,830432E+09	7,034440E+09	1,286487E+10
-1915	2,915255E+09	2,915292E+09	3,517243E+09	3,517307E+09	5,830548E+09	7,034551E+09	1,286510E+10
-1914	2,915345E+09	2,915330E+09	3,517212E+09	3,517248E+09	5,830675E+09	7,034461E+09	1,286514E+10
-1913	2,915239E+09	2,915283E+09	3,517222E+09	3,517200E+09	5,830522E+09	7,034422E+09	1,286494E+10
-1912	2,915345E+09	2,915322E+09	3,517249E+09	3,517279E+09	5,830667E+09	7,034528E+09	1,286519E+10
-1911	2,915330E+09	2,915297E+09	3,517254E+09	3,517151E+09	5,830627E+09	7,034406E+09	1,286503E+10
-1910	2,915216E+09	2,915271E+09	3,517251E+09	3,517208E+09	5,830487E+09	7,034458E+09	1,286495E+10
-1909	2,915316E+09	2,915297E+09	3,517232E+09	3,517286E+09	5,830613E+09	7,034519E+09	1,286513E+10
-1908	2,915189E+09	2,915224E+09	3,517239E+09	3,517175E+09	5,830413E+09	7,034414E+09	1,286483E+10
-1907	2,915151E+09	2,915212E+09	3,517244E+09	3,517265E+09	5,830363E+09	7,034509E+09	1,286487E+10
-1906	2,915268E+09	2,915214E+09	3,517209E+09	3,517226E+09	5,830482E+09	7,034434E+09	1,286492E+10
-1905	2,915150E+09	2,915137E+09	3,517214E+09	3,517157E+09	5,830287E+09	7,034371E+09	1,286466E+10
-1904	2,915204E+09	2,915188E+09	3,517212E+09	3,517273E+09	5,830392E+09	7,034486E+09	1,286488E+10
-1903	2,915236E+09	2,915221E+09	3,517198E+09	3,517169E+09	5,830457E+09	7,034366E+09	1,286482E+10
-1902	2,915114E+09	2,915210E+09	3,517213E+09	3,517184E+09	5,830325E+09	7,034396E+09	1,286472E+10
-1901	2,915258E+09	2,915255E+09	3,517224E+09	3,517268E+09	5,830513E+09	7,034492E+09	1,286501E+10
-1900	2,915232E+09	2,915231E+09	3,517259E+09	3,517142E+09	5,830463E+09	7,034401E+09	1,286486E+10
-1899	2,915194E+09	2,915247E+09	3,517272E+09	3,517245E+09	5,830441E+09	7,034517E+09	1,286496E+10
-1898	2,915358E+09	2,915322E+09	3,517224E+09	3,517275E+09	5,830680E+09	7,034498E+09	1,286518E+10
-1897	2,915269E+09	2,915295E+09	3,517231E+09	3,517200E+09	5,830564E+09	7,034430E+09	1,286499E+10
-1896	2,915303E+09	2,915340E+09	3,517234E+09	3,517313E+09	5,830643E+09	7,034546E+09	1,286519E+10
-1895	2,915407E+09	2,915379E+09	3,517226E+09	3,517204E+09	5,830786E+09	7,034430E+09	1,286522E+10
-1894	2,915291E+09	2,915327E+09	3,517253E+09	3,517169E+09	5,830618E+09	7,034422E+09	1,286504E+10
-1893	2,915390E+09	2,915347E+09	3,517246E+09	3,517276E+09	5,830737E+09	7,034522E+09	1,286526E+10
-1892	2,915361E+09	2,915341E+09	3,517247E+09	3,517167E+09	5,830702E+09	7,034415E+09	1,286512E+10
-1891	2,915220E+09	2,915309E+09	3,517246E+09	3,517248E+09	5,830529E+09	7,034493E+09	1,286502E+10
-1890	2,915334E+09	2,915334E+09	3,517205E+09	3,517283E+09	5,830667E+09	7,034488E+09	1,286515E+10
-1889	2,915248E+09	2,915249E+09	3,517232E+09	3,517159E+09	5,830497E+09	7,034391E+09	1,286489E+10
-1888	2,915210E+09	2,915221E+09	3,517233E+09	3,517256E+09	5,830431E+09	7,034490E+09	1,286492E+10
-1887	2,915330E+09	2,915261E+09	3,517202E+09	3,517197E+09	5,830591E+09	7,034399E+09	1,286499E+10
-1886	2,915189E+09	2,915216E+09	3,517215E+09	3,517151E+09	5,830405E+09	7,034366E+09	1,286477E+10
-1885	2,915233E+09	2,915249E+09	3,517199E+09	3,517274E+09	5,830482E+09	7,034472E+09	1,286495E+10
-1884	2,915275E+09	2,915283E+09	3,517216E+09	3,517165E+09	5,830557E+09	7,034381E+09	1,286494E+10
-1883	2,915149E+09	2,915246E+09	3,517251E+09	3,517197E+09	5,830395E+09	7,034448E+09	1,286484E+10
-1882	2,915304E+09	2,915292E+09	3,517231E+09	3,517265E+09	5,830596E+09	7,034496E+09	1,286509E+10
-1881	2,915305E+09	2,915276E+09	3,517256E+09	3,517163E+09	5,830581E+09	7,034419E+09	1,286500E+10
-1880	2,915244E+09	2,915286E+09	3,517240E+09	3,517279E+09	5,830530E+09	7,034519E+09	1,286505E+10
-1879	2,915413E+09	2,915388E+09	3,517197E+09	3,517266E+09	5,830801E+09	7,034463E+09	1,286526E+10
-1878	2,915328E+09	2,915360E+09	3,517227E+09	3,517172E+09	5,830688E+09	7,034399E+09	1,286509E+10
-1877	2,915367E+09	2,915373E+09	3,517224E+09	3,517276E+09	5,830740E+09	7,034500E+09	1,286524E+10
-1876	2,915476E+09	2,915422E+09	3,517240E+09	3,517177E+09	5,830899E+09	7,034417E+09	1,286532E+10
-1875	2,915323E+09	2,915373E+09	3,517271E+09	3,517187E+09	5,830696E+09	7,034458E+09	1,286515E+10
-1874	2,915401E+09	2,915411E+09	3,517229E+09	3,517287E+09	5,830812E+09	7,034516E+09	1,286533E+10

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	2,915391E+09	2,915395E+09	3,517240E+09	3,517190E+09	5,830786E+09	7,034430E+09	1,286522E+10
-1872	2,915244E+09	2,915328E+09	3,517241E+09	3,517265E+09	5,830572E+09	7,034506E+09	1,286508E+10
-1871	2,915387E+09	2,915358E+09	3,517209E+09	3,517255E+09	5,830745E+09	7,034464E+09	1,286521E+10
-1870	2,915308E+09	2,915279E+09	3,517243E+09	3,517136E+09	5,830588E+09	7,034378E+09	1,286497E+10
-1869	2,915263E+09	2,915252E+09	3,517209E+09	3,517251E+09	5,830515E+09	7,034459E+09	1,286497E+10
-1868	2,915372E+09	2,915324E+09	3,517187E+09	3,517198E+09	5,830696E+09	7,034385E+09	1,286508E+10
-1867	2,915204E+09	2,915278E+09	3,517222E+09	3,517172E+09	5,830481E+09	7,034394E+09	1,286487E+10
-1866	2,915256E+09	2,915303E+09	3,517198E+09	3,517258E+09	5,830559E+09	7,034456E+09	1,286501E+10
-1865	2,915336E+09	2,915317E+09	3,517231E+09	3,517156E+09	5,830653E+09	7,034388E+09	1,286504E+10
-1864	2,915208E+09	2,915261E+09	3,517257E+09	3,517211E+09	5,830469E+09	7,034469E+09	1,286494E+10
-1863	2,915371E+09	2,915339E+09	3,517219E+09	3,517259E+09	5,830710E+09	7,034478E+09	1,286519E+10
-1862	2,915360E+09	2,915348E+09	3,517243E+09	3,517169E+09	5,830708E+09	7,034412E+09	1,286512E+10
-1861	2,915298E+09	2,915347E+09	3,517209E+09	3,517279E+09	5,830645E+09	7,034489E+09	1,286513E+10
-1860	2,915474E+09	2,915449E+09	3,517202E+09	3,517243E+09	5,830924E+09	7,034445E+09	1,286537E+10
-1859	2,915376E+09	2,915410E+09	3,517256E+09	3,517165E+09	5,830786E+09	7,034421E+09	1,286521E+10
-1858	2,915411E+09	2,915420E+09	3,517230E+09	3,517254E+09	5,830831E+09	7,034484E+09	1,286531E+10
-1857	2,915526E+09	2,915475E+09	3,517240E+09	3,517194E+09	5,831001E+09	7,034434E+09	1,286543E+10
-1856	2,915342E+09	2,915411E+09	3,517256E+09	3,517228E+09	5,830752E+09	7,034485E+09	1,286524E+10
-1855	2,915426E+09	2,915456E+09	3,517215E+09	3,517286E+09	5,830882E+09	7,034502E+09	1,286538E+10
-1854	2,915433E+09	2,915429E+09	3,517244E+09	3,517176E+09	5,830862E+09	7,034420E+09	1,286528E+10
-1853	2,915305E+09	2,915334E+09	3,517224E+09	3,517239E+09	5,830638E+09	7,034463E+09	1,286510E+10
-1852	2,915456E+09	2,915384E+09	3,517207E+09	3,517231E+09	5,830840E+09	7,034438E+09	1,286528E+10
-1851	2,915347E+09	2,915331E+09	3,517242E+09	3,517146E+09	5,830678E+09	7,034388E+09	1,286507E+10
-1850	2,915281E+09	2,915323E+09	3,517189E+09	3,517242E+09	5,830603E+09	7,034431E+09	1,286503E+10
-1849	2,915408E+09	2,915392E+09	3,517190E+09	3,517205E+09	5,830801E+09	7,034395E+09	1,286520E+10
-1848	2,915231E+09	2,915307E+09	3,517239E+09	3,517181E+09	5,830538E+09	7,034420E+09	1,286496E+10
-1847	2,915304E+09	2,915334E+09	3,517220E+09	3,517237E+09	5,830638E+09	7,034457E+09	1,286509E+10
-1846	2,915399E+09	2,915352E+09	3,517249E+09	3,517156E+09	5,830751E+09	7,034405E+09	1,286516E+10
-1845	2,915266E+09	2,915294E+09	3,517224E+09	3,517228E+09	5,830561E+09	7,034452E+09	1,286501E+10
-1844	2,915430E+09	2,915402E+09	3,517191E+09	3,517272E+09	5,830832E+09	7,034463E+09	1,286530E+10
-1843	2,915403E+09	2,915416E+09	3,517230E+09	3,517182E+09	5,830819E+09	7,034412E+09	1,286523E+10
-1842	2,915348E+09	2,915409E+09	3,517196E+09	3,517243E+09	5,830758E+09	7,034438E+09	1,286520E+10
-1841	2,915551E+09	2,915503E+09	3,517211E+09	3,517218E+09	5,831055E+09	7,034429E+09	1,286548E+10
-1840	2,915427E+09	2,915447E+09	3,517272E+09	3,517169E+09	5,830875E+09	7,034440E+09	1,286531E+10
-1839	2,915450E+09	2,915483E+09	3,517235E+09	3,517250E+09	5,830933E+09	7,034485E+09	1,286542E+10
-1838	2,915555E+09	2,915540E+09	3,517248E+09	3,517209E+09	5,831094E+09	7,034457E+09	1,286555E+10
-1837	2,915374E+09	2,915443E+09	3,517242E+09	3,517242E+09	5,830817E+09	7,034484E+09	1,286530E+10
-1836	2,915477E+09	2,915478E+09	3,517224E+09	3,517275E+09	5,830955E+09	7,034500E+09	1,286545E+10
-1835	2,915478E+09	2,915449E+09	3,517260E+09	3,517176E+09	5,830927E+09	7,034436E+09	1,286536E+10
-1834	2,915353E+09	2,915365E+09	3,517209E+09	3,517218E+09	5,830719E+09	7,034427E+09	1,286515E+10
-1833	2,915505E+09	2,915435E+09	3,517184E+09	3,517237E+09	5,830941E+09	7,034420E+09	1,286536E+10
-1832	2,915364E+09	2,915381E+09	3,517224E+09	3,517168E+09	5,830745E+09	7,034393E+09	1,286514E+10
-1831	2,915304E+09	2,915379E+09	3,517184E+09	3,517221E+09	5,830684E+09	7,034405E+09	1,286509E+10
-1830	2,915445E+09	2,915433E+09	3,517213E+09	3,517183E+09	5,830878E+09	7,034396E+09	1,286527E+10
-1829	2,915288E+09	2,915321E+09	3,517239E+09	3,517172E+09	5,830609E+09	7,034411E+09	1,286502E+10
-1828	2,915371E+09	2,915360E+09	3,517226E+09	3,517235E+09	5,830731E+09	7,034461E+09	1,286519E+10
-1827	2,915442E+09	2,915409E+09	3,517243E+09	3,517187E+09	5,830851E+09	7,034431E+09	1,286528E+10
-1826	2,915307E+09	2,915368E+09	3,517190E+09	3,517227E+09	5,830675E+09	7,034417E+09	1,286509E+10
-1825	2,915491E+09	2,915477E+09	3,517176E+09	3,517272E+09	5,830968E+09	7,034448E+09	1,286542E+10

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	2,915454E+09	2,915467E+09	3,517241E+09	3,517176E+09	5,830921E+09	7,034417E+09	1,286534E+10
-1823	2,915411E+09	2,915463E+09	3,517219E+09	3,517204E+09	5,830874E+09	7,034423E+09	1,286530E+10
-1822	2,915609E+09	2,915556E+09	3,517242E+09	3,517209E+09	5,831166E+09	7,034452E+09	1,286562E+10
-1821	2,915469E+09	2,915488E+09	3,517260E+09	3,517191E+09	5,830957E+09	7,034451E+09	1,286541E+10
-1820	2,915485E+09	2,915530E+09	3,517232E+09	3,517271E+09	5,831015E+09	7,034503E+09	1,286552E+10
-1819	2,915580E+09	2,915580E+09	3,517248E+09	3,517234E+09	5,831160E+09	7,034482E+09	1,286564E+10
-1818	2,915418E+09	2,915466E+09	3,517222E+09	3,517216E+09	5,830884E+09	7,034438E+09	1,286532E+10
-1817	2,915553E+09	2,915505E+09	3,517209E+09	3,517260E+09	5,831058E+09	7,034469E+09	1,286553E+10
-1816	2,915528E+09	2,915476E+09	3,517245E+09	3,517174E+09	5,831004E+09	7,034419E+09	1,286542E+10
-1815	2,915387E+09	2,915432E+09	3,517193E+09	3,517195E+09	5,830819E+09	7,034388E+09	1,286521E+10
-1814	2,915528E+09	2,915510E+09	3,517191E+09	3,517228E+09	5,831038E+09	7,034420E+09	1,286546E+10
-1813	2,915386E+09	2,915422E+09	3,517225E+09	3,517168E+09	5,830808E+09	7,034393E+09	1,286520E+10
-1812	2,915343E+09	2,915406E+09	3,517217E+09	3,517211E+09	5,830750E+09	7,034428E+09	1,286518E+10
-1811	2,915482E+09	2,915455E+09	3,517241E+09	3,517198E+09	5,830937E+09	7,034439E+09	1,286538E+10
-1810	2,915336E+09	2,915349E+09	3,517224E+09	3,517174E+09	5,830685E+09	7,034397E+09	1,286508E+10
-1809	2,915433E+09	2,915415E+09	3,517190E+09	3,517262E+09	5,830848E+09	7,034452E+09	1,286530E+10
-1808	2,915481E+09	2,915466E+09	3,517215E+09	3,517211E+09	5,830947E+09	7,034426E+09	1,286537E+10
-1807	2,915362E+09	2,915440E+09	3,517178E+09	3,517193E+09	5,830802E+09	7,034372E+09	1,286517E+10
-1806	2,915558E+09	2,915538E+09	3,517199E+09	3,517231E+09	5,831096E+09	7,034429E+09	1,286553E+10
-1805	2,915524E+09	2,915506E+09	3,517250E+09	3,517157E+09	5,831030E+09	7,034407E+09	1,286544E+10
-1804	2,915475E+09	2,915510E+09	3,517244E+09	3,517201E+09	5,830985E+09	7,034444E+09	1,286543E+10
-1803	2,915632E+09	2,915621E+09	3,517256E+09	3,517247E+09	5,831254E+09	7,034503E+09	1,286576E+10
-1802	2,915496E+09	2,915546E+09	3,517245E+09	3,517208E+09	5,831042E+09	7,034453E+09	1,286549E+10
-1801	2,915534E+09	2,915571E+09	3,517217E+09	3,517286E+09	5,831105E+09	7,034502E+09	1,286561E+10
-1800	2,915622E+09	2,915599E+09	3,517247E+09	3,517238E+09	5,831222E+09	7,034485E+09	1,286571E+10
-1799	2,915480E+09	2,915500E+09	3,517215E+09	3,517178E+09	5,830980E+09	7,034392E+09	1,286537E+10
-1798	2,915605E+09	2,915550E+09	3,517207E+09	3,517240E+09	5,831155E+09	7,034447E+09	1,286560E+10
-1797	2,915560E+09	2,915526E+09	3,517215E+09	3,517179E+09	5,831086E+09	7,034395E+09	1,286548E+10
-1796	2,915413E+09	2,915482E+09	3,517195E+09	3,517191E+09	5,830895E+09	7,034386E+09	1,286528E+10
-1795	2,915536E+09	2,915553E+09	3,517213E+09	3,517233E+09	5,831090E+09	7,034445E+09	1,286553E+10
-1794	2,915421E+09	2,915442E+09	3,517230E+09	3,517145E+09	5,830863E+09	7,034376E+09	1,286524E+10
-1793	2,915408E+09	2,915426E+09	3,517214E+09	3,517215E+09	5,830834E+09	7,034429E+09	1,286526E+10
-1792	2,915527E+09	2,915483E+09	3,517232E+09	3,517223E+09	5,831010E+09	7,034456E+09	1,286547E+10
-1791	2,915385E+09	2,915418E+09	3,517197E+09	3,517167E+09	5,830804E+09	7,034364E+09	1,286517E+10
-1790	2,915486E+09	2,915494E+09	3,517184E+09	3,517254E+09	5,830980E+09	7,034439E+09	1,286542E+10
-1789	2,915537E+09	2,915523E+09	3,517207E+09	3,517199E+09	5,831060E+09	7,034406E+09	1,286547E+10
-1788	2,915430E+09	2,915489E+09	3,517215E+09	3,517166E+09	5,830919E+09	7,034381E+09	1,286530E+10
-1787	2,915607E+09	2,915589E+09	3,517240E+09	3,517233E+09	5,831196E+09	7,034472E+09	1,286567E+10
-1786	2,915568E+09	2,915553E+09	3,517248E+09	3,517163E+09	5,831121E+09	7,034411E+09	1,286553E+10
-1785	2,915520E+09	2,915571E+09	3,517220E+09	3,517243E+09	5,831092E+09	7,034463E+09	1,286555E+10
-1784	2,915656E+09	2,915665E+09	3,517234E+09	3,517283E+09	5,831321E+09	7,034517E+09	1,286584E+10
-1783	2,915543E+09	2,915591E+09	3,517225E+09	3,517184E+09	5,831134E+09	7,034409E+09	1,286554E+10
-1782	2,915604E+09	2,915608E+09	3,517219E+09	3,517251E+09	5,831212E+09	7,034469E+09	1,286568E+10
-1781	2,915690E+09	2,915621E+09	3,517230E+09	3,517215E+09	5,831311E+09	7,034445E+09	1,286576E+10
-1780	2,915538E+09	2,915544E+09	3,517220E+09	3,517158E+09	5,831083E+09	7,034378E+09	1,286546E+10
-1779	2,915618E+09	2,915618E+09	3,517214E+09	3,517247E+09	5,831237E+09	7,034461E+09	1,286570E+10
-1778	2,915572E+09	2,915581E+09	3,517210E+09	3,517174E+09	5,831153E+09	7,034383E+09	1,286554E+10
-1777	2,915445E+09	2,915522E+09	3,517201E+09	3,517201E+09	5,830967E+09	7,034402E+09	1,286537E+10
-1776	2,915560E+09	2,915565E+09	3,517235E+09	3,517245E+09	5,831125E+09	7,034480E+09	1,286560E+10

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	2,915473E+09	2,915466E+09	3,517235E+09	3,517133E+09	5,830939E+09	7,034368E+09	1,286531E+10
-1774	2,915465E+09	2,915467E+09	3,517207E+09	3,517220E+09	5,830931E+09	7,034427E+09	1,286536E+10
-1773	2,915573E+09	2,915531E+09	3,517192E+09	3,517244E+09	5,831104E+09	7,034436E+09	1,286554E+10
-1772	2,915443E+09	2,915477E+09	3,517187E+09	3,517158E+09	5,830920E+09	7,034346E+09	1,286527E+10
-1771	2,915526E+09	2,915558E+09	3,517197E+09	3,517239E+09	5,831084E+09	7,034436E+09	1,286552E+10
-1770	2,915599E+09	2,915572E+09	3,517212E+09	3,517166E+09	5,831171E+09	7,034377E+09	1,286555E+10
-1769	2,915504E+09	2,915537E+09	3,517218E+09	3,517166E+09	5,831041E+09	7,034384E+09	1,286542E+10
-1768	2,915637E+09	2,915641E+09	3,517245E+09	3,517262E+09	5,831278E+09	7,034507E+09	1,286578E+10
-1767	2,915606E+09	2,915627E+09	3,517235E+09	3,517172E+09	5,831233E+09	7,034407E+09	1,286564E+10
-1766	2,915565E+09	2,915633E+09	3,517219E+09	3,517249E+09	5,831197E+09	7,034468E+09	1,286567E+10
-1765	2,915708E+09	2,915698E+09	3,517222E+09	3,517282E+09	5,831406E+09	7,034505E+09	1,286591E+10
-1764	2,915621E+09	2,915614E+09	3,517240E+09	3,517155E+09	5,831235E+09	7,034395E+09	1,286563E+10
-1763	2,915656E+09	2,915647E+09	3,517231E+09	3,517239E+09	5,831302E+09	7,034470E+09	1,286577E+10
-1762	2,915732E+09	2,915668E+09	3,517207E+09	3,517205E+09	5,831399E+09	7,034412E+09	1,286581E+10
-1761	2,915572E+09	2,915607E+09	3,517195E+09	3,517177E+09	5,831179E+09	7,034371E+09	1,286555E+10
-1760	2,915620E+09	2,915662E+09	3,517216E+09	3,517265E+09	5,831282E+09	7,034480E+09	1,286576E+10
-1759	2,915601E+09	2,915618E+09	3,517215E+09	3,517150E+09	5,831219E+09	7,034364E+09	1,286558E+10
-1758	2,915500E+09	2,915544E+09	3,517220E+09	3,517184E+09	5,831044E+09	7,034404E+09	1,286545E+10
-1757	2,915615E+09	2,915577E+09	3,517222E+09	3,517250E+09	5,831192E+09	7,034472E+09	1,286566E+10
-1756	2,915533E+09	2,915505E+09	3,517230E+09	3,517137E+09	5,831038E+09	7,034367E+09	1,286541E+10
-1755	2,915498E+09	2,915540E+09	3,517197E+09	3,517236E+09	5,831038E+09	7,034433E+09	1,286547E+10
-1754	2,915614E+09	2,915592E+09	3,517169E+09	3,517231E+09	5,831205E+09	7,034400E+09	1,286561E+10
-1753	2,915504E+09	2,915540E+09	3,517185E+09	3,517152E+09	5,831043E+09	7,034337E+09	1,286538E+10
-1752	2,915570E+09	2,915598E+09	3,517222E+09	3,517231E+09	5,831167E+09	7,034453E+09	1,286562E+10
-1751	2,915653E+09	2,915623E+09	3,517222E+09	3,517149E+09	5,831276E+09	7,034371E+09	1,286565E+10
-1750	2,915557E+09	2,915598E+09	3,517223E+09	3,517182E+09	5,831155E+09	7,034404E+09	1,286556E+10
-1749	2,915672E+09	2,915689E+09	3,517219E+09	3,517293E+09	5,831361E+09	7,034511E+09	1,286587E+10
-1748	2,915663E+09	2,915669E+09	3,517234E+09	3,517173E+09	5,831333E+09	7,034407E+09	1,286574E+10
-1747	2,915617E+09	2,915676E+09	3,517225E+09	3,517236E+09	5,831294E+09	7,034461E+09	1,286575E+10
-1746	2,915779E+09	2,915724E+09	3,517209E+09	3,517248E+09	5,831504E+09	7,034457E+09	1,286596E+10
-1745	2,915698E+09	2,915663E+09	3,517221E+09	3,517149E+09	5,831361E+09	7,034369E+09	1,286573E+10
-1744	2,915681E+09	2,915704E+09	3,517227E+09	3,517248E+09	5,831385E+09	7,034475E+09	1,286586E+10
-1743	2,915754E+09	2,915743E+09	3,517199E+09	3,517197E+09	5,831497E+09	7,034396E+09	1,286589E+10
-1742	2,915599E+09	2,915664E+09	3,517213E+09	3,517175E+09	5,831263E+09	7,034388E+09	1,286565E+10
-1741	2,915642E+09	2,915683E+09	3,517227E+09	3,517269E+09	5,831325E+09	7,034497E+09	1,286582E+10
-1740	2,915659E+09	2,915624E+09	3,517244E+09	3,517142E+09	5,831283E+09	7,034386E+09	1,286567E+10
-1739	2,915540E+09	2,915567E+09	3,517227E+09	3,517195E+09	5,831107E+09	7,034422E+09	1,286553E+10
-1738	2,915659E+09	2,915612E+09	3,517182E+09	3,517261E+09	5,831271E+09	7,034443E+09	1,286571E+10
-1737	2,915585E+09	2,915565E+09	3,517179E+09	3,517154E+09	5,831151E+09	7,034333E+09	1,286548E+10
-1736	2,915523E+09	2,915593E+09	3,517185E+09	3,517231E+09	5,831116E+09	7,034416E+09	1,286553E+10
-1735	2,915668E+09	2,915650E+09	3,517170E+09	3,517185E+09	5,831318E+09	7,034355E+09	1,286567E+10
-1734	2,915574E+09	2,915588E+09	3,517210E+09	3,517121E+09	5,831162E+09	7,034331E+09	1,286549E+10
-1733	2,915619E+09	2,915638E+09	3,517228E+09	3,517235E+09	5,831257E+09	7,034463E+09	1,286572E+10
-1732	2,915709E+09	2,915676E+09	3,517234E+09	3,517161E+09	5,831385E+09	7,034395E+09	1,286578E+10
-1731	2,915588E+09	2,915668E+09	3,517228E+09	3,517207E+09	5,831256E+09	7,034435E+09	1,286569E+10
-1730	2,915721E+09	2,915736E+09	3,517202E+09	3,517295E+09	5,831456E+09	7,034497E+09	1,286595E+10
-1729	2,915738E+09	2,915717E+09	3,517222E+09	3,517174E+09	5,831455E+09	7,034396E+09	1,286585E+10
-1728	2,915674E+09	2,915712E+09	3,517234E+09	3,517230E+09	5,831386E+09	7,034464E+09	1,286585E+10
-1727	2,915838E+09	2,915779E+09	3,517199E+09	3,517226E+09	5,831618E+09	7,034425E+09	1,286604E+10

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							
-1726	2,915744E+09	2,915735E+09	3,517215E+09	3,517152E+09	5,831479E+09	7,034367E+09	1,286585E+10
-1725	2,915697E+09	2,915758E+09	3,517211E+09	3,517262E+09	5,831456E+09	7,034473E+09	1,286593E+10
-1724	2,915787E+09	2,915779E+09	3,517218E+09	3,517188E+09	5,831566E+09	7,034406E+09	1,286597E+10
-1723	2,915631E+09	2,915692E+09	3,517240E+09	3,517168E+09	5,831323E+09	7,034408E+09	1,286573E+10
-1722	2,915693E+09	2,915683E+09	3,517219E+09	3,517253E+09	5,831375E+09	7,034473E+09	1,286585E+10
-1721	2,915719E+09	2,915653E+09	3,517218E+09	3,517156E+09	5,831372E+09	7,034374E+09	1,286575E+10
-1720	2,915568E+09	2,915615E+09	3,517204E+09	3,517212E+09	5,831183E+09	7,034416E+09	1,286560E+10
-1719	2,915693E+09	2,915679E+09	3,517153E+09	3,517246E+09	5,831372E+09	7,034399E+09	1,286577E+10
-1718	2,915634E+09	2,915635E+09	3,517183E+09	3,517135E+09	5,831269E+09	7,034318E+09	1,286559E+10
-1717	2,915566E+09	2,915632E+09	3,517198E+09	3,517211E+09	5,831198E+09	7,034409E+09	1,286561E+10
-1716	2,915734E+09	2,915681E+09	3,517210E+09	3,517162E+09	5,831415E+09	7,034372E+09	1,286579E+10
-1715	2,915617E+09	2,915638E+09	3,517237E+09	3,517134E+09	5,831255E+09	7,034370E+09	1,286563E+10
-1714	2,915655E+09	2,915685E+09	3,517207E+09	3,517261E+09	5,831340E+09	7,034468E+09	1,286581E+10
-1713	2,915758E+09	2,915739E+09	3,517201E+09	3,517199E+09	5,831497E+09	7,034400E+09	1,286590E+10
-1712	2,915629E+09	2,915714E+09	3,517219E+09	3,517217E+09	5,831343E+09	7,034437E+09	1,286578E+10
-1711	2,915792E+09	2,915783E+09	3,517190E+09	3,517261E+09	5,831576E+09	7,034451E+09	1,286603E+10
-1710	2,915825E+09	2,915771E+09	3,517223E+09	3,517147E+09	5,831596E+09	7,034369E+09	1,286596E+10
-1709	2,915727E+09	2,915765E+09	3,517225E+09	3,517225E+09	5,831492E+09	7,034450E+09	1,286594E+10
-1708	2,915887E+09	2,915844E+09	3,517211E+09	3,517221E+09	5,831731E+09	7,034432E+09	1,286616E+10
-1707	2,915758E+09	2,915804E+09	3,517234E+09	3,517159E+09	5,831562E+09	7,034393E+09	1,286596E+10
-1706	2,915718E+09	2,915790E+09	3,517216E+09	3,517260E+09	5,831509E+09	7,034475E+09	1,286598E+10
-1705	2,915835E+09	2,915800E+09	3,517217E+09	3,517194E+09	5,831634E+09	7,034411E+09	1,286605E+10
-1704	2,915665E+09	2,915696E+09	3,517249E+09	3,517176E+09	5,831361E+09	7,034424E+09	1,286579E+10
-1703	2,915739E+09	2,915711E+09	3,517194E+09	3,517249E+09	5,831450E+09	7,034443E+09	1,286589E+10
-1702	2,915765E+09	2,915708E+09	3,517186E+09	3,517163E+09	5,831474E+09	7,034350E+09	1,286582E+10
-1701	2,915596E+09	2,915666E+09	3,517174E+09	3,517211E+09	5,831261E+09	7,034385E+09	1,286565E+10
-1700	2,915747E+09	2,915723E+09	3,517164E+09	3,517210E+09	5,831470E+09	7,034374E+09	1,286584E+10
-1699	2,915681E+09	2,915685E+09	3,517214E+09	3,517105E+09	5,831367E+09	7,034318E+09	1,286569E+10
-1698	2,915621E+09	2,915663E+09	3,517206E+09	3,517194E+09	5,831284E+09	7,034401E+09	1,286568E+10
-1697	2,915787E+09	2,915737E+09	3,517203E+09	3,517186E+09	5,831524E+09	7,034389E+09	1,286591E+10
-1696	2,915641E+09	2,915700E+09	3,517238E+09	3,517173E+09	5,831341E+09	7,034410E+09	1,286575E+10
-1695	2,915696E+09	2,915750E+09	3,517191E+09	3,517269E+09	5,831445E+09	7,034460E+09	1,286590E+10
-1694	2,915822E+09	2,915802E+09	3,517203E+09	3,517199E+09	5,831625E+09	7,034401E+09	1,286603E+10
-1693	2,915696E+09	2,915753E+09	3,517220E+09	3,517205E+09	5,831448E+09	7,034424E+09	1,286587E+10
-1692	2,915876E+09	2,915819E+09	3,517209E+09	3,517233E+09	5,831696E+09	7,034442E+09	1,286614E+10
-1691	2,915876E+09	2,915839E+09	3,517234E+09	3,517144E+09	5,831716E+09	7,034378E+09	1,286609E+10
-1690	2,915761E+09	2,915819E+09	3,517202E+09	3,517228E+09	5,831580E+09	7,034431E+09	1,286601E+10
-1689	2,915915E+09	2,915902E+09	3,517195E+09	3,517236E+09	5,831817E+09	7,034431E+09	1,286625E+10
-1688	2,915778E+09	2,915834E+09	3,517250E+09	3,517164E+09	5,831612E+09	7,034413E+09	1,286602E+10
-1687	2,915762E+09	2,915806E+09	3,517215E+09	3,517235E+09	5,831568E+09	7,034451E+09	1,286602E+10
-1686	2,915896E+09	2,915826E+09	3,517213E+09	3,517189E+09	5,831722E+09	7,034402E+09	1,286612E+10
-1685	2,915706E+09	2,915727E+09	3,517221E+09	3,517183E+09	5,831433E+09	7,034405E+09	1,286584E+10
-1684	2,915787E+09	2,915761E+09	3,517180E+09	3,517241E+09	5,831548E+09	7,034422E+09	1,286597E+10
-1683	2,915793E+09	2,915780E+09	3,517190E+09	3,517153E+09	5,831573E+09	7,034343E+09	1,286592E+10
-1682	2,915632E+09	2,915709E+09	3,517176E+09	3,517188E+09	5,831341E+09	7,034364E+09	1,286571E+10
-1681	2,915798E+09	2,915766E+09	3,517180E+09	3,517200E+09	5,831564E+09	7,034380E+09	1,286594E+10
-1680	2,915716E+09	2,915718E+09	3,517244E+09	3,517117E+09	5,831434E+09	7,034361E+09	1,286579E+10
-1679	2,915658E+09	2,915711E+09	3,517199E+09	3,517209E+09	5,831369E+09	7,034409E+09	1,286578E+10
-1678	2,915829E+09	2,915804E+09	3,517183E+09	3,517218E+09	5,831633E+09	7,034402E+09	1,286603E+10

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	2,915679E+09	2,915748E+09	3,517215E+09	3,517192E+09	5,831427E+09	7,034407E+09	1,286583E+10
-1676	2,915776E+09	2,915787E+09	3,517196E+09	3,517245E+09	5,831564E+09	7,034441E+09	1,286600E+10
-1675	2,915898E+09	2,915851E+09	3,517216E+09	3,517164E+09	5,831749E+09	7,034380E+09	1,286613E+10
-1674	2,915772E+09	2,915795E+09	3,517210E+09	3,517179E+09	5,831567E+09	7,034389E+09	1,286596E+10
-1673	2,915937E+09	2,915890E+09	3,517193E+09	3,517234E+09	5,831827E+09	7,034427E+09	1,286625E+10
-1672	2,915894E+09	2,915910E+09	3,517240E+09	3,517162E+09	5,831804E+09	7,034402E+09	1,286621E+10
-1671	2,915783E+09	2,915881E+09	3,517203E+09	3,517228E+09	5,831664E+09	7,034430E+09	1,286609E+10
-1670	2,915953E+09	2,915948E+09	3,517207E+09	3,517237E+09	5,831901E+09	7,034445E+09	1,286635E+10
-1669	2,915820E+09	2,915844E+09	3,517258E+09	3,517167E+09	5,831664E+09	7,034425E+09	1,286609E+10
-1668	2,915829E+09	2,915814E+09	3,517221E+09	3,517226E+09	5,831643E+09	7,034448E+09	1,286609E+10
-1667	2,915934E+09	2,915874E+09	3,517202E+09	3,517194E+09	5,831808E+09	7,034396E+09	1,286620E+10
-1666	2,915741E+09	2,915775E+09	3,517178E+09	3,517185E+09	5,831515E+09	7,034363E+09	1,286588E+10
-1665	2,915825E+09	2,915820E+09	3,517155E+09	3,517234E+09	5,831645E+09	7,034389E+09	1,286603E+10
-1664	2,915822E+09	2,915824E+09	3,517209E+09	3,517137E+09	5,831646E+09	7,034346E+09	1,286599E+10
-1663	2,915680E+09	2,915744E+09	3,517189E+09	3,517158E+09	5,831423E+09	7,034347E+09	1,286577E+10
-1662	2,915847E+09	2,915815E+09	3,517193E+09	3,517203E+09	5,831663E+09	7,034396E+09	1,286606E+10
-1661	2,915750E+09	2,915763E+09	3,517242E+09	3,517145E+09	5,831513E+09	7,034387E+09	1,286590E+10
-1660	2,915707E+09	2,915758E+09	3,517198E+09	3,517222E+09	5,831465E+09	7,034420E+09	1,286588E+10
-1659	2,915872E+09	2,915869E+09	3,517191E+09	3,517222E+09	5,831741E+09	7,034413E+09	1,286615E+10
-1658	2,915748E+09	2,915784E+09	3,517201E+09	3,517172E+09	5,831532E+09	7,034374E+09	1,286591E+10
-1657	2,915857E+09	2,915832E+09	3,517190E+09	3,517226E+09	5,831689E+09	7,034417E+09	1,286611E+10
-1656	2,915955E+09	2,915903E+09	3,517229E+09	3,517163E+09	5,831858E+09	7,034392E+09	1,286625E+10
-1655	2,915815E+09	2,915863E+09	3,517194E+09	3,517178E+09	5,831678E+09	7,034372E+09	1,286605E+10
-1654	2,915968E+09	2,915973E+09	3,517181E+09	3,517251E+09	5,831941E+09	7,034431E+09	1,286637E+10
-1653	2,915919E+09	2,915955E+09	3,517238E+09	3,517174E+09	5,831874E+09	7,034413E+09	1,286629E+10
-1652	2,915841E+09	2,915902E+09	3,517220E+09	3,517209E+09	5,831743E+09	7,034429E+09	1,286617E+10
-1651	2,916007E+09	2,915978E+09	3,517224E+09	3,517220E+09	5,831984E+09	7,034445E+09	1,286643E+10
-1650	2,915880E+09	2,915864E+09	3,517235E+09	3,517162E+09	5,831744E+09	7,034396E+09	1,286614E+10
-1649	2,915880E+09	2,915867E+09	3,517189E+09	3,517235E+09	5,831747E+09	7,034424E+09	1,286617E+10
-1648	2,915954E+09	2,915933E+09	3,517195E+09	3,517204E+09	5,831887E+09	7,034399E+09	1,286629E+10
-1647	2,915768E+09	2,915832E+09	3,517172E+09	3,517166E+09	5,831601E+09	7,034338E+09	1,286594E+10
-1646	2,915865E+09	2,915875E+09	3,517170E+09	3,517215E+09	5,831740E+09	7,034385E+09	1,286612E+10
-1645	2,915860E+09	2,915845E+09	3,517233E+09	3,517134E+09	5,831705E+09	7,034367E+09	1,286607E+10
-1644	2,915739E+09	2,915766E+09	3,517211E+09	3,517159E+09	5,831504E+09	7,034370E+09	1,286587E+10
-1643	2,915877E+09	2,915867E+09	3,517193E+09	3,517220E+09	5,831744E+09	7,034413E+09	1,286616E+10
-1642	2,915788E+09	2,915804E+09	3,517204E+09	3,517166E+09	5,831593E+09	7,034370E+09	1,286596E+10
-1641	2,915768E+09	2,915807E+09	3,517170E+09	3,517222E+09	5,831575E+09	7,034392E+09	1,286597E+10
-1640	2,915930E+09	2,915909E+09	3,517195E+09	3,517207E+09	5,831838E+09	7,034402E+09	1,286624E+10
-1639	2,915825E+09	2,915835E+09	3,517191E+09	3,517139E+09	5,831660E+09	7,034330E+09	1,286599E+10
-1638	2,915926E+09	2,915910E+09	3,517181E+09	3,517215E+09	5,831836E+09	7,034397E+09	1,286623E+10
-1637	2,915993E+09	2,915976E+09	3,517224E+09	3,517178E+09	5,831969E+09	7,034402E+09	1,286637E+10
-1636	2,915861E+09	2,915930E+09	3,517207E+09	3,517181E+09	5,831791E+09	7,034388E+09	1,286618E+10
-1635	2,915992E+09	2,916039E+09	3,517210E+09	3,517248E+09	5,832031E+09	7,034458E+09	1,286649E+10
-1634	2,915970E+09	2,915979E+09	3,517244E+09	3,517173E+09	5,831949E+09	7,034417E+09	1,286637E+10
-1633	2,915908E+09	2,915920E+09	3,517222E+09	3,517208E+09	5,831829E+09	7,034430E+09	1,286626E+10
-1632	2,916051E+09	2,916004E+09	3,517225E+09	3,517237E+09	5,832055E+09	7,034462E+09	1,286652E+10
-1631	2,915920E+09	2,915914E+09	3,517194E+09	3,517164E+09	5,831834E+09	7,034359E+09	1,286619E+10
-1630	2,915913E+09	2,915938E+09	3,517156E+09	3,517237E+09	5,831851E+09	7,034393E+09	1,286624E+10
-1629	2,915983E+09	2,915974E+09	3,517191E+09	3,517195E+09	5,831958E+09	7,034386E+09	1,286634E+10

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	2,915826E+09	2,915856E+09	3,517195E+09	3,517127E+09	5,831681E+09	7,034322E+09	1,286600E+10
-1627	2,915904E+09	2,915913E+09	3,517203E+09	3,517190E+09	5,831817E+09	7,034393E+09	1,286621E+10
-1626	2,915907E+09	2,915871E+09	3,517221E+09	3,517140E+09	5,831777E+09	7,034361E+09	1,286614E+10
-1625	2,915779E+09	2,915813E+09	3,517191E+09	3,517182E+09	5,831592E+09	7,034373E+09	1,286596E+10
-1624	2,915900E+09	2,915920E+09	3,517190E+09	3,517247E+09	5,831820E+09	7,034438E+09	1,286626E+10
-1623	2,915835E+09	2,915856E+09	3,517186E+09	3,517158E+09	5,831691E+09	7,034343E+09	1,286603E+10
-1622	2,915836E+09	2,915869E+09	3,517163E+09	3,517206E+09	5,831705E+09	7,034368E+09	1,286607E+10
-1621	2,915997E+09	2,915948E+09	3,517201E+09	3,517198E+09	5,831945E+09	7,034398E+09	1,286634E+10
-1620	2,915898E+09	2,915891E+09	3,517199E+09	3,517126E+09	5,831789E+09	7,034325E+09	1,286611E+10
-1619	2,915959E+09	2,915997E+09	3,517188E+09	3,517216E+09	5,831956E+09	7,034404E+09	1,286636E+10
-1618	2,916030E+09	2,916034E+09	3,517208E+09	3,517191E+09	5,832063E+09	7,034399E+09	1,286646E+10
-1617	2,915914E+09	2,915973E+09	3,517213E+09	3,517182E+09	5,831886E+09	7,034395E+09	1,286628E+10
-1616	2,916039E+09	2,916062E+09	3,517235E+09	3,517247E+09	5,832100E+09	7,034482E+09	1,286658E+10
-1615	2,916034E+09	2,916004E+09	3,517233E+09	3,517163E+09	5,832038E+09	7,034396E+09	1,286643E+10
-1614	2,915971E+09	2,915977E+09	3,517192E+09	3,517214E+09	5,831948E+09	7,034407E+09	1,286636E+10
-1613	2,916085E+09	2,916054E+09	3,517200E+09	3,517251E+09	5,832139E+09	7,034451E+09	1,286659E+10
-1612	2,915966E+09	2,915972E+09	3,517189E+09	3,517150E+09	5,831939E+09	7,034339E+09	1,286628E+10
-1611	2,915939E+09	2,915999E+09	3,517177E+09	3,517203E+09	5,831938E+09	7,034380E+09	1,286632E+10
-1610	2,916025E+09	2,915997E+09	3,517200E+09	3,517175E+09	5,832022E+09	7,034374E+09	1,286640E+10
-1609	2,915879E+09	2,915876E+09	3,517212E+09	3,517125E+09	5,831755E+09	7,034337E+09	1,286609E+10
-1608	2,915922E+09	2,915942E+09	3,517215E+09	3,517218E+09	5,831864E+09	7,034433E+09	1,286630E+10
-1607	2,915930E+09	2,915918E+09	3,517187E+09	3,517166E+09	5,831848E+09	7,034353E+09	1,286620E+10
-1606	2,915819E+09	2,915876E+09	3,517151E+09	3,517197E+09	5,831695E+09	7,034348E+09	1,286604E+10
-1605	2,915951E+09	2,915953E+09	3,517178E+09	3,517243E+09	5,831904E+09	7,034421E+09	1,286632E+10
-1604	2,915923E+09	2,915895E+09	3,517189E+09	3,517117E+09	5,831818E+09	7,034306E+09	1,286612E+10
-1603	2,915904E+09	2,915934E+09	3,517182E+09	3,517166E+09	5,831838E+09	7,034348E+09	1,286619E+10
-1602	2,916058E+09	2,916009E+09	3,517191E+09	3,517195E+09	5,832067E+09	7,034386E+09	1,286645E+10
-1601	2,915948E+09	2,915964E+09	3,517204E+09	3,517137E+09	5,831912E+09	7,034341E+09	1,286625E+10
-1600	2,915977E+09	2,916063E+09	3,517217E+09	3,517240E+09	5,832040E+09	7,034456E+09	1,286650E+10
-1599	2,916069E+09	2,916081E+09	3,517213E+09	3,517194E+09	5,832150E+09	7,034408E+09	1,286656E+10
-1598	2,915977E+09	2,916015E+09	3,517213E+09	3,517188E+09	5,831992E+09	7,034401E+09	1,286639E+10
-1597	2,916102E+09	2,916077E+09	3,517237E+09	3,517261E+09	5,832179E+09	7,034497E+09	1,286668E+10
-1596	2,916103E+09	2,916042E+09	3,517212E+09	3,517160E+09	5,832144E+09	7,034371E+09	1,286652E+10
-1595	2,916003E+09	2,916053E+09	3,517172E+09	3,517205E+09	5,832055E+09	7,034377E+09	1,286643E+10
-1594	2,916122E+09	2,916101E+09	3,517167E+09	3,517240E+09	5,832223E+09	7,034407E+09	1,286663E+10
-1593	2,916012E+09	2,916009E+09	3,517195E+09	3,517121E+09	5,832021E+09	7,034316E+09	1,286634E+10
-1592	2,915967E+09	2,916027E+09	3,517212E+09	3,517186E+09	5,831993E+09	7,034398E+09	1,286639E+10
-1591	2,916061E+09	2,916023E+09	3,517198E+09	3,517167E+09	5,832084E+09	7,034365E+09	1,286645E+10
-1590	2,915916E+09	2,915930E+09	3,517193E+09	3,517148E+09	5,831846E+09	7,034341E+09	1,286619E+10
-1589	2,915946E+09	2,915978E+09	3,517201E+09	3,517250E+09	5,831924E+09	7,034452E+09	1,286638E+10
-1588	2,915978E+09	2,915965E+09	3,517178E+09	3,517163E+09	5,831943E+09	7,034341E+09	1,286628E+10
-1587	2,915868E+09	2,915938E+09	3,517162E+09	3,517166E+09	5,831806E+09	7,034328E+09	1,286613E+10
-1586	2,916024E+09	2,915984E+09	3,517173E+09	3,517219E+09	5,832008E+09	7,034392E+09	1,286640E+10
-1585	2,916003E+09	2,915939E+09	3,517202E+09	3,517102E+09	5,831942E+09	7,034303E+09	1,286625E+10
-1584	2,915940E+09	2,915998E+09	3,517200E+09	3,517180E+09	5,831938E+09	7,034380E+09	1,286632E+10
-1583	2,916085E+09	2,916082E+09	3,517174E+09	3,517212E+09	5,832167E+09	7,034387E+09	1,286655E+10
-1582	2,915991E+09	2,916038E+09	3,517192E+09	3,517158E+09	5,832030E+09	7,034350E+09	1,286638E+10
-1581	2,916023E+09	2,916088E+09	3,517227E+09	3,517249E+09	5,832110E+09	7,034477E+09	1,286659E+10
-1580	2,916150E+09	2,916110E+09	3,517217E+09	3,517178E+09	5,832260E+09	7,034395E+09	1,286665E+10

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	2,916046E+09	2,916068E+09	3,517209E+09	3,517165E+09	5,832114E+09	7,034374E+09	1,286649E+10
-1578	2,916161E+09	2,916123E+09	3,517198E+09	3,517263E+09	5,832284E+09	7,034461E+09	1,286674E+10
-1577	2,916154E+09	2,916108E+09	3,517196E+09	3,517156E+09	5,832261E+09	7,034352E+09	1,286661E+10
-1576	2,916019E+09	2,916113E+09	3,517191E+09	3,517198E+09	5,832132E+09	7,034389E+09	1,286652E+10
-1575	2,916148E+09	2,916145E+09	3,517176E+09	3,517218E+09	5,832292E+09	7,034394E+09	1,286669E+10
-1574	2,916057E+09	2,916047E+09	3,517206E+09	3,517115E+09	5,832105E+09	7,034322E+09	1,286643E+10
-1573	2,915998E+09	2,916034E+09	3,517230E+09	3,517206E+09	5,832032E+09	7,034435E+09	1,286647E+10
-1572	2,916098E+09	2,916059E+09	3,517185E+09	3,517183E+09	5,832156E+09	7,034368E+09	1,286652E+10
-1571	2,915940E+09	2,915990E+09	3,517176E+09	3,517152E+09	5,831930E+09	7,034328E+09	1,286626E+10
-1570	2,915993E+09	2,916007E+09	3,517169E+09	3,517252E+09	5,832000E+09	7,034420E+09	1,286642E+10
-1569	2,916051E+09	2,915994E+09	3,517180E+09	3,517133E+09	5,832046E+09	7,034313E+09	1,286636E+10
-1568	2,915925E+09	2,915981E+09	3,517187E+09	3,517142E+09	5,831906E+09	7,034329E+09	1,286624E+10
-1567	2,916081E+09	2,916040E+09	3,517165E+09	3,517203E+09	5,832121E+09	7,034369E+09	1,286649E+10
-1566	2,916050E+09	2,916027E+09	3,517187E+09	3,517119E+09	5,832077E+09	7,034306E+09	1,286638E+10
-1565	2,915967E+09	2,916060E+09	3,517210E+09	3,517214E+09	5,832027E+09	7,034424E+09	1,286645E+10
-1564	2,916127E+09	2,916141E+09	3,517182E+09	3,517214E+09	5,832268E+09	7,034396E+09	1,286666E+10
-1563	2,916040E+09	2,916095E+09	3,517214E+09	3,517144E+09	5,832136E+09	7,034358E+09	1,286649E+10
-1562	2,916100E+09	2,916104E+09	3,517219E+09	3,517248E+09	5,832204E+09	7,034468E+09	1,286667E+10
-1561	2,916229E+09	2,916139E+09	3,517214E+09	3,517174E+09	5,832368E+09	7,034388E+09	1,286676E+10
-1560	2,916085E+09	2,916131E+09	3,517201E+09	3,517176E+09	5,832216E+09	7,034376E+09	1,286659E+10
-1559	2,916192E+09	2,916189E+09	3,517158E+09	3,517259E+09	5,832381E+09	7,034417E+09	1,286680E+10
-1558	2,916194E+09	2,916177E+09	3,517176E+09	3,517146E+09	5,832371E+09	7,034323E+09	1,286669E+10
-1557	2,916056E+09	2,916135E+09	3,517215E+09	3,517185E+09	5,832190E+09	7,034400E+09	1,286659E+10
-1556	2,916197E+09	2,916171E+09	3,517194E+09	3,517192E+09	5,832367E+09	7,034385E+09	1,286675E+10
-1555	2,916096E+09	2,916094E+09	3,517222E+09	3,517106E+09	5,832189E+09	7,034328E+09	1,286652E+10
-1554	2,916033E+09	2,916062E+09	3,517204E+09	3,517230E+09	5,832095E+09	7,034435E+09	1,286653E+10
-1553	2,916139E+09	2,916098E+09	3,517178E+09	3,517195E+09	5,832238E+09	7,034373E+09	1,286661E+10
-1552	2,915969E+09	2,916039E+09	3,517186E+09	3,517153E+09	5,832007E+09	7,034338E+09	1,286635E+10
-1551	2,916042E+09	2,916047E+09	3,517158E+09	3,517230E+09	5,832089E+09	7,034388E+09	1,286648E+10
-1550	2,916123E+09	2,916050E+09	3,517174E+09	3,517124E+09	5,832174E+09	7,034298E+09	1,286647E+10
-1549	2,915973E+09	2,916017E+09	3,517200E+09	3,517153E+09	5,831991E+09	7,034353E+09	1,286634E+10
-1548	2,916118E+09	2,916113E+09	3,517157E+09	3,517208E+09	5,832230E+09	7,034366E+09	1,286660E+10
-1547	2,916081E+09	2,916110E+09	3,517187E+09	3,517119E+09	5,832191E+09	7,034306E+09	1,286650E+10
-1546	2,916013E+09	2,916093E+09	3,517199E+09	3,517221E+09	5,832106E+09	7,034419E+09	1,286653E+10
-1545	2,916201E+09	2,916167E+09	3,517198E+09	3,517198E+09	5,832369E+09	7,034396E+09	1,286676E+10
-1544	2,916105E+09	2,916131E+09	3,517231E+09	3,517135E+09	5,832237E+09	7,034366E+09	1,286660E+10
-1543	2,916164E+09	2,916153E+09	3,517189E+09	3,517244E+09	5,832318E+09	7,034433E+09	1,286675E+10
-1542	2,916288E+09	2,916222E+09	3,517177E+09	3,517184E+09	5,832510E+09	7,034361E+09	1,286687E+10
-1541	2,916118E+09	2,916190E+09	3,517203E+09	3,517185E+09	5,832307E+09	7,034387E+09	1,286669E+10
-1540	2,916228E+09	2,916253E+09	3,517167E+09	3,517233E+09	5,832480E+09	7,034400E+09	1,286688E+10
-1539	2,916234E+09	2,916232E+09	3,517210E+09	3,517115E+09	5,832466E+09	7,034325E+09	1,286679E+10
-1538	2,916106E+09	2,916142E+09	3,517226E+09	3,517189E+09	5,832248E+09	7,034415E+09	1,286666E+10
-1537	2,916243E+09	2,916187E+09	3,517205E+09	3,517203E+09	5,832430E+09	7,034408E+09	1,286684E+10
-1536	2,916110E+09	2,916138E+09	3,517218E+09	3,517139E+09	5,832248E+09	7,034357E+09	1,286661E+10
-1535	2,916060E+09	2,916103E+09	3,517160E+09	3,517243E+09	5,832162E+09	7,034403E+09	1,286657E+10
-1534	2,916189E+09	2,916146E+09	3,517146E+09	3,517190E+09	5,832335E+09	7,034336E+09	1,286667E+10
-1533	2,916026E+09	2,916062E+09	3,517194E+09	3,517136E+09	5,832088E+09	7,034329E+09	1,286642E+10
-1532	2,916107E+09	2,916094E+09	3,517154E+09	3,517188E+09	5,832201E+09	7,034342E+09	1,286654E+10
-1531	2,916171E+09	2,916128E+09	3,517180E+09	3,517102E+09	5,832299E+09	7,034282E+09	1,286658E+10

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	2,916014E+09	2,916073E+09	3,517188E+09	3,517171E+09	5,832087E+09	7,034360E+09	1,286645E+10
-1529	2,916154E+09	2,916166E+09	3,517175E+09	3,517215E+09	5,832320E+09	7,034390E+09	1,286671E+10
-1528	2,916111E+09	2,916165E+09	3,517219E+09	3,517129E+09	5,832275E+09	7,034348E+09	1,286662E+10
-1527	2,916073E+09	2,916123E+09	3,517194E+09	3,517215E+09	5,832196E+09	7,034408E+09	1,286660E+10
-1526	2,916284E+09	2,916210E+09	3,517183E+09	3,517203E+09	5,832494E+09	7,034387E+09	1,286688E+10
-1525	2,916170E+09	2,916171E+09	3,517223E+09	3,517154E+09	5,832341E+09	7,034376E+09	1,286672E+10
-1524	2,916214E+09	2,916233E+09	3,517155E+09	3,517238E+09	5,832446E+09	7,034394E+09	1,286684E+10
-1523	2,916329E+09	2,916312E+09	3,517169E+09	3,517166E+09	5,832641E+09	7,034335E+09	1,286698E+10
-1522	2,916168E+09	2,916226E+09	3,517202E+09	3,517173E+09	5,832394E+09	7,034374E+09	1,286677E+10
-1521	2,916284E+09	2,916278E+09	3,517203E+09	3,517204E+09	5,832562E+09	7,034407E+09	1,286697E+10
-1520	2,916271E+09	2,916267E+09	3,517242E+09	3,517116E+09	5,832539E+09	7,034357E+09	1,286690E+10
-1519	2,916139E+09	2,916175E+09	3,517204E+09	3,517206E+09	5,832314E+09	7,034410E+09	1,286672E+10
-1518	2,916279E+09	2,916245E+09	3,517170E+09	3,517235E+09	5,832524E+09	7,034406E+09	1,286693E+10
-1517	2,916138E+09	2,916168E+09	3,517209E+09	3,517158E+09	5,832306E+09	7,034367E+09	1,286667E+10
-1516	2,916100E+09	2,916151E+09	3,517145E+09	3,517215E+09	5,832252E+09	7,034360E+09	1,286661E+10
-1515	2,916248E+09	2,916198E+09	3,517156E+09	3,517147E+09	5,832446E+09	7,034303E+09	1,286675E+10
-1514	2,916089E+09	2,916082E+09	3,517193E+09	3,517124E+09	5,832171E+09	7,034317E+09	1,286649E+10
-1513	2,916154E+09	2,916140E+09	3,517169E+09	3,517181E+09	5,832294E+09	7,034350E+09	1,286664E+10
-1512	2,916187E+09	2,916198E+09	3,517189E+09	3,517122E+09	5,832385E+09	7,034311E+09	1,286670E+10
-1511	2,916042E+09	2,916121E+09	3,517168E+09	3,517185E+09	5,832163E+09	7,034353E+09	1,286652E+10
-1510	2,916210E+09	2,916212E+09	3,517164E+09	3,517220E+09	5,832422E+09	7,034384E+09	1,286681E+10
-1509	2,916178E+09	2,916182E+09	3,517233E+09	3,517132E+09	5,832361E+09	7,034366E+09	1,286673E+10
-1508	2,916151E+09	2,916176E+09	3,517176E+09	3,517196E+09	5,832327E+09	7,034372E+09	1,286670E+10
-1507	2,916351E+09	2,916294E+09	3,517169E+09	3,517192E+09	5,832646E+09	7,034361E+09	1,286701E+10
-1506	2,916227E+09	2,916238E+09	3,517199E+09	3,517165E+09	5,832465E+09	7,034364E+09	1,286683E+10
-1505	2,916261E+09	2,916299E+09	3,517172E+09	3,517220E+09	5,832561E+09	7,034393E+09	1,286695E+10
-1504	2,916358E+09	2,916377E+09	3,517209E+09	3,517157E+09	5,832735E+09	7,034366E+09	1,286710E+10
-1503	2,916215E+09	2,916254E+09	3,517213E+09	3,517168E+09	5,832469E+09	7,034381E+09	1,286685E+10
-1502	2,916333E+09	2,916308E+09	3,517201E+09	3,517220E+09	5,832640E+09	7,034421E+09	1,286706E+10
-1501	2,916302E+09	2,916288E+09	3,517239E+09	3,517156E+09	5,832590E+09	7,034395E+09	1,286699E+10
-1500	2,916168E+09	2,916225E+09	3,517158E+09	3,517212E+09	5,832393E+09	7,034370E+09	1,286676E+10
-1499	2,916316E+09	2,916298E+09	3,517146E+09	3,517217E+09	5,832614E+09	7,034363E+09	1,286698E+10
-1498	2,916198E+09	2,916185E+09	3,517189E+09	3,517137E+09	5,832383E+09	7,034326E+09	1,286671E+10
-1497	2,916169E+09	2,916174E+09	3,517162E+09	3,517165E+09	5,832343E+09	7,034327E+09	1,286667E+10
-1496	2,916291E+09	2,916252E+09	3,517178E+09	3,517129E+09	5,832543E+09	7,034307E+09	1,286685E+10
-1495	2,916126E+09	2,916136E+09	3,517177E+09	3,517129E+09	5,832262E+09	7,034306E+09	1,286657E+10
-1494	2,916182E+09	2,916212E+09	3,517157E+09	3,517205E+09	5,832394E+09	7,034362E+09	1,286676E+10
-1493	2,916212E+09	2,916241E+09	3,517208E+09	3,517152E+09	5,832453E+09	7,034360E+09	1,286681E+10
-1492	2,916088E+09	2,916172E+09	3,517167E+09	3,517176E+09	5,832260E+09	7,034342E+09	1,286660E+10
-1491	2,916285E+09	2,916261E+09	3,517174E+09	3,517205E+09	5,832545E+09	7,034379E+09	1,286692E+10
-1490	2,916262E+09	2,916210E+09	3,517218E+09	3,517143E+09	5,832472E+09	7,034360E+09	1,286683E+10
-1489	2,916220E+09	2,916237E+09	3,517169E+09	3,517192E+09	5,832457E+09	7,034361E+09	1,286682E+10
-1488	2,916388E+09	2,916384E+09	3,517165E+09	3,517198E+09	5,832772E+09	7,034363E+09	1,286714E+10
-1487	2,916269E+09	2,916299E+09	3,517182E+09	3,517157E+09	5,832568E+09	7,034339E+09	1,286691E+10
-1486	2,916316E+09	2,916354E+09	3,517180E+09	3,517207E+09	5,832670E+09	7,034387E+09	1,286706E+10
-1485	2,916408E+09	2,916393E+09	3,517238E+09	3,517158E+09	5,832801E+09	7,034395E+09	1,286720E+10
-1484	2,916260E+09	2,916295E+09	3,517204E+09	3,517161E+09	5,832555E+09	7,034365E+09	1,286692E+10
-1483	2,916374E+09	2,916365E+09	3,517188E+09	3,517225E+09	5,832739E+09	7,034413E+09	1,286715E+10
-1482	2,916340E+09	2,916318E+09	3,517209E+09	3,517178E+09	5,832658E+09	7,034387E+09	1,286705E+10

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	2,916212E+09	2,916264E+09	3,517160E+09	3,517190E+09	5,832476E+09	7,034350E+09	1,286683E+10
-1480	2,916354E+09	2,916345E+09	3,517163E+09	3,517192E+09	5,832698E+09	7,034355E+09	1,286705E+10
-1479	2,916253E+09	2,916212E+09	3,517184E+09	3,517113E+09	5,832465E+09	7,034298E+09	1,286676E+10
-1478	2,916219E+09	2,916221E+09	3,517159E+09	3,517162E+09	5,832440E+09	7,034322E+09	1,286676E+10
-1477	2,916311E+09	2,916296E+09	3,517186E+09	3,517160E+09	5,832608E+09	7,034346E+09	1,286695E+10
-1476	2,916143E+09	2,916206E+09	3,517155E+09	3,517142E+09	5,832349E+09	7,034297E+09	1,286665E+10
-1475	2,916218E+09	2,916269E+09	3,517158E+09	3,517203E+09	5,832487E+09	7,034361E+09	1,286685E+10
-1474	2,916275E+09	2,916257E+09	3,517205E+09	3,517156E+09	5,832532E+09	7,034361E+09	1,286689E+10
-1473	2,916174E+09	2,916200E+09	3,517178E+09	3,517148E+09	5,832374E+09	7,034326E+09	1,286670E+10
-1472	2,916349E+09	2,916324E+09	3,517179E+09	3,517201E+09	5,832673E+09	7,034380E+09	1,286705E+10
-1471	2,916325E+09	2,916281E+09	3,517185E+09	3,517148E+09	5,832606E+09	7,034333E+09	1,286694E+10
-1470	2,916271E+09	2,916322E+09	3,517152E+09	3,517194E+09	5,832593E+09	7,034346E+09	1,286694E+10
-1469	2,916422E+09	2,916442E+09	3,517192E+09	3,517204E+09	5,832863E+09	7,034396E+09	1,286726E+10
-1468	2,916315E+09	2,916356E+09	3,517192E+09	3,517133E+09	5,832671E+09	7,034325E+09	1,286700E+10
-1467	2,916371E+09	2,916394E+09	3,517204E+09	3,517193E+09	5,832765E+09	7,034396E+09	1,286716E+10
-1466	2,916462E+09	2,916408E+09	3,517231E+09	3,517184E+09	5,832870E+09	7,034416E+09	1,286729E+10
-1465	2,916307E+09	2,916332E+09	3,517190E+09	3,517170E+09	5,832638E+09	7,034360E+09	1,286700E+10
-1464	2,916400E+09	2,916421E+09	3,517172E+09	3,517236E+09	5,832821E+09	7,034407E+09	1,286723E+10
-1463	2,916386E+09	2,916351E+09	3,517173E+09	3,517164E+09	5,832737E+09	7,034337E+09	1,286707E+10
-1462	2,916271E+09	2,916303E+09	3,517149E+09	3,517159E+09	5,832574E+09	7,034308E+09	1,286688E+10
-1461	2,916401E+09	2,916372E+09	3,517182E+09	3,517179E+09	5,832772E+09	7,034361E+09	1,286713E+10
-1460	2,916289E+09	2,916274E+09	3,517175E+09	3,517097E+09	5,832563E+09	7,034272E+09	1,286684E+10
-1459	2,916247E+09	2,916295E+09	3,517163E+09	3,517168E+09	5,832541E+09	7,034332E+09	1,286687E+10
-1458	2,916334E+09	2,916336E+09	3,517183E+09	3,517190E+09	5,832671E+09	7,034373E+09	1,286704E+10
-1457	2,916184E+09	2,916244E+09	3,517178E+09	3,517137E+09	5,832429E+09	7,034315E+09	1,286674E+10
-1456	2,916267E+09	2,916309E+09	3,517184E+09	3,517198E+09	5,832576E+09	7,034383E+09	1,286696E+10
-1455	2,916350E+09	2,916277E+09	3,517192E+09	3,517153E+09	5,832627E+09	7,034344E+09	1,286697E+10
-1454	2,916250E+09	2,916257E+09	3,517158E+09	3,517151E+09	5,832507E+09	7,034309E+09	1,286682E+10
-1453	2,916395E+09	2,916386E+09	3,517164E+09	3,517221E+09	5,832781E+09	7,034385E+09	1,286717E+10
-1452	2,916361E+09	2,916369E+09	3,517155E+09	3,517136E+09	5,832730E+09	7,034290E+09	1,286702E+10
-1451	2,916323E+09	2,916394E+09	3,517162E+09	3,517170E+09	5,832717E+09	7,034332E+09	1,286705E+10
-1450	2,916478E+09	2,916464E+09	3,517207E+09	3,517197E+09	5,832943E+09	7,034404E+09	1,286735E+10
-1449	2,916383E+09	2,916387E+09	3,517220E+09	3,517114E+09	5,832770E+09	7,034334E+09	1,286710E+10
-1448	2,916413E+09	2,916446E+09	3,517213E+09	3,517204E+09	5,832859E+09	7,034417E+09	1,286728E+10
-1447	2,916503E+09	2,916454E+09	3,517195E+09	3,517207E+09	5,832957E+09	7,034401E+09	1,286736E+10
-1446	2,916350E+09	2,916391E+09	3,517164E+09	3,517177E+09	5,832742E+09	7,034341E+09	1,286708E+10
-1445	2,916432E+09	2,916458E+09	3,517178E+09	3,517237E+09	5,832890E+09	7,034415E+09	1,286730E+10
-1444	2,916430E+09	2,916401E+09	3,517167E+09	3,517129E+09	5,832831E+09	7,034297E+09	1,286713E+10
-1443	2,916327E+09	2,916347E+09	3,517166E+09	3,517133E+09	5,832673E+09	7,034299E+09	1,286697E+10
-1442	2,916435E+09	2,916399E+09	3,517184E+09	3,517195E+09	5,832834E+09	7,034380E+09	1,286721E+10
-1441	2,916318E+09	2,916325E+09	3,517180E+09	3,517103E+09	5,832643E+09	7,034283E+09	1,286693E+10
-1440	2,916259E+09	2,916350E+09	3,517172E+09	3,517183E+09	5,832608E+09	7,034355E+09	1,286696E+10
-1439	2,916379E+09	2,916358E+09	3,517169E+09	3,517193E+09	5,832737E+09	7,034362E+09	1,286710E+10
-1438	2,916258E+09	2,916269E+09	3,517170E+09	3,517120E+09	5,832526E+09	7,034290E+09	1,286682E+10
-1437	2,916333E+09	2,916334E+09	3,517187E+09	3,517201E+09	5,832667E+09	7,034388E+09	1,286706E+10
-1436	2,916411E+09	2,916351E+09	3,517156E+09	3,517139E+09	5,832762E+09	7,034295E+09	1,286706E+10
-1435	2,916304E+09	2,916348E+09	3,517144E+09	3,517143E+09	5,832652E+09	7,034288E+09	1,286694E+10
-1434	2,916434E+09	2,916451E+09	3,517164E+09	3,517228E+09	5,832886E+09	7,034393E+09	1,286728E+10
-1433	2,916414E+09	2,916431E+09	3,517186E+09	3,517111E+09	5,832845E+09	7,034298E+09	1,286714E+10

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	2,916369E+09	2,916447E+09	3,517205E+09	3,517162E+09	5,832816E+09	7,034366E+09	1,286718E+10
-1431	2,916538E+09	2,916489E+09	3,517206E+09	3,517208E+09	5,833027E+09	7,034414E+09	1,286744E+10
-1430	2,916440E+09	2,916433E+09	3,517204E+09	3,517138E+09	5,832873E+09	7,034343E+09	1,286722E+10
-1429	2,916444E+09	2,916492E+09	3,517195E+09	3,517243E+09	5,832936E+09	7,034438E+09	1,286737E+10
-1428	2,916536E+09	2,916517E+09	3,517153E+09	3,517197E+09	5,833053E+09	7,034351E+09	1,286740E+10
-1427	2,916409E+09	2,916443E+09	3,517159E+09	3,517144E+09	5,832852E+09	7,034302E+09	1,286715E+10
-1426	2,916490E+09	2,916476E+09	3,517182E+09	3,517212E+09	5,832965E+09	7,034394E+09	1,286736E+10
-1425	2,916488E+09	2,916440E+09	3,517188E+09	3,517095E+09	5,832928E+09	7,034283E+09	1,286721E+10
-1424	2,916354E+09	2,916408E+09	3,517186E+09	3,517136E+09	5,832763E+09	7,034322E+09	1,286708E+10
-1423	2,916453E+09	2,916441E+09	3,517168E+09	3,517215E+09	5,832894E+09	7,034383E+09	1,286728E+10
-1422	2,916348E+09	2,916372E+09	3,517180E+09	3,517118E+09	5,832720E+09	7,034298E+09	1,286702E+10
-1421	2,916290E+09	2,916370E+09	3,517186E+09	3,517197E+09	5,832660E+09	7,034384E+09	1,286704E+10
-1420	2,916430E+09	2,916391E+09	3,517155E+09	3,517174E+09	5,832821E+09	7,034328E+09	1,286715E+10
-1419	2,916335E+09	2,916315E+09	3,517163E+09	3,517108E+09	5,832650E+09	7,034271E+09	1,286692E+10
-1418	2,916389E+09	2,916379E+09	3,517162E+09	3,517215E+09	5,832768E+09	7,034377E+09	1,286714E+10
-1417	2,916461E+09	2,916432E+09	3,517144E+09	3,517129E+09	5,832893E+09	7,034273E+09	1,286717E+10
-1416	2,916341E+09	2,916430E+09	3,517157E+09	3,517134E+09	5,832771E+09	7,034291E+09	1,286706E+10
-1415	2,916484E+09	2,916494E+09	3,517168E+09	3,517213E+09	5,832978E+09	7,034380E+09	1,286736E+10
-1414	2,916484E+09	2,916473E+09	3,517205E+09	3,517100E+09	5,832957E+09	7,034305E+09	1,286726E+10
-1413	2,916421E+09	2,916479E+09	3,517223E+09	3,517184E+09	5,832900E+09	7,034407E+09	1,286731E+10
-1412	2,916581E+09	2,916553E+09	3,517178E+09	3,517219E+09	5,833134E+09	7,034396E+09	1,286753E+10
-1411	2,916494E+09	2,916503E+09	3,517183E+09	3,517148E+09	5,832997E+09	7,034332E+09	1,286733E+10
-1410	2,916487E+09	2,916533E+09	3,517181E+09	3,517252E+09	5,833021E+09	7,034433E+09	1,286745E+10
-1409	2,916596E+09	2,916564E+09	3,517166E+09	3,517160E+09	5,833161E+09	7,034326E+09	1,286749E+10
-1408	2,916459E+09	2,916488E+09	3,517190E+09	3,517114E+09	5,832947E+09	7,034303E+09	1,286725E+10
-1407	2,916537E+09	2,916502E+09	3,517182E+09	3,517204E+09	5,833039E+09	7,034386E+09	1,286743E+10
-1406	2,916525E+09	2,916486E+09	3,517180E+09	3,517107E+09	5,833012E+09	7,034286E+09	1,286730E+10
-1405	2,916360E+09	2,916448E+09	3,517182E+09	3,517175E+09	5,832808E+09	7,034357E+09	1,286716E+10
-1404	2,916468E+09	2,916488E+09	3,517140E+09	3,517214E+09	5,832956E+09	7,034354E+09	1,286731E+10
-1403	2,916404E+09	2,916402E+09	3,517174E+09	3,517103E+09	5,832807E+09	7,034277E+09	1,286708E+10
-1402	2,916355E+09	2,916381E+09	3,517177E+09	3,517191E+09	5,832736E+09	7,034369E+09	1,286710E+10
-1401	2,916505E+09	2,916438E+09	3,517148E+09	3,517147E+09	5,832943E+09	7,034295E+09	1,286724E+10
-1400	2,916386E+09	2,916399E+09	3,517161E+09	3,517101E+09	5,832784E+09	7,034261E+09	1,286705E+10
-1399	2,916431E+09	2,916451E+09	3,517142E+09	3,517214E+09	5,832882E+09	7,034356E+09	1,286724E+10
-1398	2,916509E+09	2,916506E+09	3,517157E+09	3,517122E+09	5,833015E+09	7,034279E+09	1,286729E+10
-1397	2,916381E+09	2,916476E+09	3,517197E+09	3,517145E+09	5,832856E+09	7,034342E+09	1,286720E+10
-1396	2,916532E+09	2,916538E+09	3,517178E+09	3,517204E+09	5,833070E+09	7,034382E+09	1,286745E+10
-1395	2,916555E+09	2,916519E+09	3,517211E+09	3,517115E+09	5,833074E+09	7,034326E+09	1,286740E+10
-1394	2,916472E+09	2,916517E+09	3,517199E+09	3,517222E+09	5,832989E+09	7,034421E+09	1,286741E+10
-1393	2,916633E+09	2,916616E+09	3,517155E+09	3,517219E+09	5,833249E+09	7,034373E+09	1,286762E+10
-1392	2,916547E+09	2,916568E+09	3,517180E+09	3,517132E+09	5,833115E+09	7,034312E+09	1,286743E+10
-1391	2,916550E+09	2,916561E+09	3,517165E+09	3,517217E+09	5,833111E+09	7,034382E+09	1,286749E+10
-1390	2,916664E+09	2,916603E+09	3,517174E+09	3,517129E+09	5,833267E+09	7,034303E+09	1,286757E+10
-1389	2,916496E+09	2,916526E+09	3,517204E+09	3,517122E+09	5,833022E+09	7,034326E+09	1,286735E+10
-1388	2,916545E+09	2,916563E+09	3,517161E+09	3,517207E+09	5,833109E+09	7,034368E+09	1,286748E+10
-1387	2,916550E+09	2,916546E+09	3,517173E+09	3,517125E+09	5,833096E+09	7,034299E+09	1,286740E+10
-1386	2,916383E+09	2,916468E+09	3,517179E+09	3,517195E+09	5,832851E+09	7,034374E+09	1,286723E+10
-1385	2,916521E+09	2,916514E+09	3,517149E+09	3,517192E+09	5,833035E+09	7,034341E+09	1,286738E+10
-1384	2,916469E+09	2,916436E+09	3,517186E+09	3,517085E+09	5,832905E+09	7,034271E+09	1,286718E+10

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	2,916419E+09	2,916412E+09	3,517151E+09	3,517185E+09	5,832831E+09	7,034336E+09	1,286717E+10
-1382	2,916561E+09	2,916507E+09	3,517128E+09	3,517148E+09	5,833068E+09	7,034276E+09	1,286734E+10
-1381	2,916414E+09	2,916468E+09	3,517161E+09	3,517119E+09	5,832882E+09	7,034279E+09	1,286716E+10
-1380	2,916460E+09	2,916519E+09	3,517137E+09	3,517194E+09	5,832979E+09	7,034331E+09	1,286731E+10
-1379	2,916575E+09	2,916555E+09	3,517175E+09	3,517109E+09	5,833131E+09	7,034284E+09	1,286741E+10
-1378	2,916444E+09	2,916497E+09	3,517212E+09	3,517157E+09	5,832941E+09	7,034369E+09	1,286731E+10
-1377	2,916602E+09	2,916590E+09	3,517179E+09	3,517204E+09	5,833191E+09	7,034383E+09	1,286757E+10
-1376	2,916609E+09	2,916592E+09	3,517203E+09	3,517129E+09	5,833201E+09	7,034332E+09	1,286753E+10
-1375	2,916526E+09	2,916575E+09	3,517166E+09	3,517230E+09	5,833101E+09	7,034396E+09	1,286750E+10
-1374	2,916696E+09	2,916673E+09	3,517149E+09	3,517200E+09	5,833369E+09	7,034349E+09	1,286772E+10
-1373	2,916593E+09	2,916611E+09	3,517199E+09	3,517122E+09	5,833204E+09	7,034321E+09	1,286753E+10
-1372	2,916593E+09	2,916608E+09	3,517165E+09	3,517187E+09	5,833200E+09	7,034351E+09	1,286755E+10
-1371	2,916713E+09	2,916652E+09	3,517174E+09	3,517133E+09	5,833365E+09	7,034308E+09	1,286767E+10
-1370	2,916513E+09	2,916563E+09	3,517193E+09	3,517159E+09	5,833076E+09	7,034352E+09	1,286743E+10
-1369	2,916567E+09	2,916611E+09	3,517151E+09	3,517208E+09	5,833177E+09	7,034359E+09	1,286754E+10
-1368	2,916585E+09	2,916583E+09	3,517181E+09	3,517115E+09	5,833168E+09	7,034297E+09	1,286746E+10
-1367	2,916443E+09	2,916476E+09	3,517162E+09	3,517174E+09	5,832920E+09	7,034336E+09	1,286726E+10
-1366	2,916597E+09	2,916539E+09	3,517145E+09	3,517168E+09	5,833136E+09	7,034314E+09	1,286745E+10
-1365	2,916518E+09	2,916488E+09	3,517183E+09	3,517094E+09	5,833006E+09	7,034277E+09	1,286728E+10
-1364	2,916449E+09	2,916492E+09	3,517125E+09	3,517174E+09	5,832941E+09	7,034299E+09	1,286724E+10
-1363	2,916605E+09	2,916588E+09	3,517128E+09	3,517151E+09	5,833193E+09	7,034280E+09	1,286747E+10
-1362	2,916450E+09	2,916515E+09	3,517182E+09	3,517130E+09	5,832964E+09	7,034312E+09	1,286728E+10
-1361	2,916513E+09	2,916565E+09	3,517169E+09	3,517175E+09	5,833077E+09	7,034344E+09	1,286742E+10
-1360	2,916641E+09	2,916600E+09	3,517206E+09	3,517112E+09	5,833241E+09	7,034318E+09	1,286756E+10
-1359	2,916510E+09	2,916528E+09	3,517185E+09	3,517177E+09	5,833038E+09	7,034362E+09	1,286740E+10
-1358	2,916663E+09	2,916649E+09	3,517151E+09	3,517221E+09	5,833311E+09	7,034372E+09	1,286768E+10
-1357	2,916653E+09	2,916656E+09	3,517183E+09	3,517147E+09	5,833309E+09	7,034330E+09	1,286764E+10
-1356	2,916572E+09	2,916634E+09	3,517140E+09	3,517193E+09	5,833206E+09	7,034333E+09	1,286754E+10
-1355	2,916769E+09	2,916725E+09	3,517151E+09	3,517169E+09	5,833494E+09	7,034321E+09	1,286781E+10
-1354	2,916646E+09	2,916642E+09	3,517210E+09	3,517116E+09	5,833289E+09	7,034326E+09	1,286761E+10
-1353	2,916631E+09	2,916666E+09	3,517172E+09	3,517173E+09	5,833297E+09	7,034345E+09	1,286764E+10
-1352	2,916736E+09	2,916717E+09	3,517184E+09	3,517144E+09	5,833454E+09	7,034328E+09	1,286778E+10
-1351	2,916539E+09	2,916594E+09	3,517179E+09	3,517173E+09	5,833134E+09	7,034352E+09	1,286749E+10
-1350	2,916612E+09	2,916635E+09	3,517161E+09	3,517203E+09	5,833247E+09	7,034363E+09	1,286761E+10
-1349	2,916630E+09	2,916601E+09	3,517196E+09	3,517119E+09	5,833231E+09	7,034315E+09	1,286755E+10
-1348	2,916495E+09	2,916509E+09	3,517144E+09	3,517152E+09	5,833004E+09	7,034296E+09	1,286730E+10
-1347	2,916658E+09	2,916595E+09	3,517122E+09	3,517174E+09	5,833253E+09	7,034296E+09	1,286755E+10
-1346	2,916548E+09	2,916547E+09	3,517164E+09	3,517119E+09	5,833095E+09	7,034283E+09	1,286738E+10
-1345	2,916484E+09	2,916566E+09	3,517124E+09	3,517158E+09	5,833050E+09	7,034282E+09	1,286733E+10
-1344	2,916649E+09	2,916644E+09	3,517155E+09	3,517131E+09	5,833293E+09	7,034285E+09	1,286758E+10
-1343	2,916514E+09	2,916539E+09	3,517187E+09	3,517122E+09	5,833052E+09	7,034309E+09	1,286736E+10
-1342	2,916588E+09	2,916596E+09	3,517177E+09	3,517172E+09	5,833184E+09	7,034349E+09	1,286753E+10
-1341	2,916687E+09	2,916655E+09	3,517200E+09	3,517143E+09	5,833342E+09	7,034344E+09	1,286769E+10
-1340	2,916552E+09	2,916605E+09	3,517147E+09	3,517179E+09	5,833157E+09	7,034326E+09	1,286748E+10
-1339	2,916725E+09	2,916722E+09	3,517130E+09	3,517224E+09	5,833447E+09	7,034354E+09	1,286780E+10
-1338	2,916705E+09	2,916706E+09	3,517189E+09	3,517142E+09	5,833411E+09	7,034331E+09	1,286774E+10
-1337	2,916637E+09	2,916687E+09	3,517160E+09	3,517151E+09	5,833324E+09	7,034310E+09	1,286763E+10
-1336	2,916825E+09	2,916775E+09	3,517183E+09	3,517151E+09	5,833600E+09	7,034333E+09	1,286793E+10
-1335	2,916687E+09	2,916681E+09	3,517200E+09	3,517132E+09	5,833368E+09	7,034331E+09	1,286770E+10

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							
-1334	2,916660E+09	2,916711E+09	3,517168E+09	3,517191E+09	5,833371E+09	7,034360E+09	1,286773E+10
-1333	2,916751E+09	2,916756E+09	3,517184E+09	3,517172E+09	5,833507E+09	7,034356E+09	1,286786E+10
-1332	2,916576E+09	2,916619E+09	3,517158E+09	3,517151E+09	5,833195E+09	7,034310E+09	1,286750E+10
-1331	2,916684E+09	2,916658E+09	3,517148E+09	3,517190E+09	5,833341E+09	7,034338E+09	1,286768E+10
-1330	2,916686E+09	2,916628E+09	3,517186E+09	3,517122E+09	5,833314E+09	7,034308E+09	1,286762E+10
-1329	2,916540E+09	2,916579E+09	3,517130E+09	3,517132E+09	5,833118E+09	7,034262E+09	1,286738E+10
-1328	2,916691E+09	2,916679E+09	3,517129E+09	3,517167E+09	5,833370E+09	7,034296E+09	1,286767E+10
-1327	2,916583E+09	2,916598E+09	3,517160E+09	3,517116E+09	5,833181E+09	7,034276E+09	1,286746E+10
-1326	2,916529E+09	2,916604E+09	3,517155E+09	3,517145E+09	5,833132E+09	7,034301E+09	1,286743E+10
-1325	2,916690E+09	2,916677E+09	3,517186E+09	3,517144E+09	5,833367E+09	7,034330E+09	1,286770E+10
-1324	2,916565E+09	2,916572E+09	3,517175E+09	3,517122E+09	5,833137E+09	7,034297E+09	1,286743E+10
-1323	2,916655E+09	2,916652E+09	3,517147E+09	3,517201E+09	5,833307E+09	7,034349E+09	1,286766E+10
-1322	2,916732E+09	2,916713E+09	3,517170E+09	3,517173E+09	5,833445E+09	7,034343E+09	1,286779E+10
-1321	2,916611E+09	2,916679E+09	3,517130E+09	3,517150E+09	5,833290E+09	7,034279E+09	1,286757E+10
-1320	2,916795E+09	2,916785E+09	3,517147E+09	3,517181E+09	5,833580E+09	7,034328E+09	1,286791E+10
-1319	2,916779E+09	2,916742E+09	3,517192E+09	3,517114E+09	5,833521E+09	7,034305E+09	1,286783E+10
-1318	2,916701E+09	2,916733E+09	3,517182E+09	3,517138E+09	5,833434E+09	7,034320E+09	1,286775E+10
-1317	2,916846E+09	2,916837E+09	3,517195E+09	3,517180E+09	5,833683E+09	7,034375E+09	1,286806E+10
-1316	2,916704E+09	2,916739E+09	3,517184E+09	3,517145E+09	5,833443E+09	7,034329E+09	1,286777E+10
-1315	2,916700E+09	2,916755E+09	3,517159E+09	3,517211E+09	5,833456E+09	7,034370E+09	1,286783E+10
-1314	2,916786E+09	2,916775E+09	3,517188E+09	3,517185E+09	5,833561E+09	7,034373E+09	1,286793E+10
-1313	2,916638E+09	2,916652E+09	3,517157E+09	3,517121E+09	5,833290E+09	7,034279E+09	1,286757E+10
-1312	2,916744E+09	2,916699E+09	3,517147E+09	3,517170E+09	5,833442E+09	7,034318E+09	1,286776E+10
-1311	2,916729E+09	2,916676E+09	3,517153E+09	3,517126E+09	5,833405E+09	7,034279E+09	1,286768E+10
-1310	2,916577E+09	2,916637E+09	3,517125E+09	3,517125E+09	5,833214E+09	7,034250E+09	1,286746E+10
-1309	2,916703E+09	2,916732E+09	3,517146E+09	3,517168E+09	5,833435E+09	7,034313E+09	1,286775E+10
-1308	2,916620E+09	2,916634E+09	3,517166E+09	3,517091E+09	5,833254E+09	7,034257E+09	1,286751E+10
-1307	2,916598E+09	2,916632E+09	3,517158E+09	3,517148E+09	5,833229E+09	7,034306E+09	1,286754E+10
-1306	2,916741E+09	2,916709E+09	3,517183E+09	3,517171E+09	5,833450E+09	7,034354E+09	1,286780E+10
-1305	2,916623E+09	2,916644E+09	3,517152E+09	3,517120E+09	5,833268E+09	7,034272E+09	1,286754E+10
-1304	2,916712E+09	2,916733E+09	3,517139E+09	3,517198E+09	5,833445E+09	7,034337E+09	1,286778E+10
-1303	2,916794E+09	2,916772E+09	3,517157E+09	3,517164E+09	5,833566E+09	7,034321E+09	1,286789E+10
-1302	2,916684E+09	2,916730E+09	3,517159E+09	3,517118E+09	5,833415E+09	7,034277E+09	1,286769E+10
-1301	2,916843E+09	2,916837E+09	3,517183E+09	3,517176E+09	5,833680E+09	7,034359E+09	1,286804E+10
-1300	2,916824E+09	2,916792E+09	3,517190E+09	3,517112E+09	5,833616E+09	7,034303E+09	1,286792E+10
-1299	2,916742E+09	2,916793E+09	3,517165E+09	3,517177E+09	5,833536E+09	7,034343E+09	1,286788E+10
-1298	2,916862E+09	2,916883E+09	3,517181E+09	3,517224E+09	5,833745E+09	7,034405E+09	1,286815E+10
-1297	2,916743E+09	2,916781E+09	3,517170E+09	3,517130E+09	5,833525E+09	7,034300E+09	1,286782E+10
-1296	2,916763E+09	2,916784E+09	3,517164E+09	3,517182E+09	5,833548E+09	7,034346E+09	1,286789E+10
-1295	2,916857E+09	2,916786E+09	3,517166E+09	3,517161E+09	5,833643E+09	7,034327E+09	1,286797E+10
-1294	2,916701E+09	2,916689E+09	3,517155E+09	3,517096E+09	5,833390E+09	7,034251E+09	1,286764E+10
-1293	2,916764E+09	2,916769E+09	3,517146E+09	3,517175E+09	5,833533E+09	7,034321E+09	1,286785E+10
-1292	2,916746E+09	2,916739E+09	3,517139E+09	3,517115E+09	5,833485E+09	7,034254E+09	1,286774E+10
-1291	2,916614E+09	2,916689E+09	3,517132E+09	3,517134E+09	5,833303E+09	7,034266E+09	1,286757E+10
-1290	2,916731E+09	2,916756E+09	3,517171E+09	3,517180E+09	5,833488E+09	7,034351E+09	1,286784E+10
-1289	2,916677E+09	2,916668E+09	3,517178E+09	3,517078E+09	5,833345E+09	7,034256E+09	1,286760E+10
-1288	2,916662E+09	2,916677E+09	3,517159E+09	3,517154E+09	5,833339E+09	7,034313E+09	1,286765E+10
-1287	2,916797E+09	2,916759E+09	3,517143E+09	3,517194E+09	5,833556E+09	7,034337E+09	1,286789E+10
-1286	2,916688E+09	2,916710E+09	3,517137E+09	3,517115E+09	5,833397E+09	7,034253E+09	1,286765E+10

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	2,916760E+09	2,916802E+09	3,517144E+09	3,517186E+09	5,833563E+09	7,034330E+09	1,286789E+10
-1284	2,916858E+09	2,916827E+09	3,517156E+09	3,517126E+09	5,833685E+09	7,034282E+09	1,286797E+10
-1283	2,916762E+09	2,916786E+09	3,517165E+09	3,517115E+09	5,833548E+09	7,034279E+09	1,286783E+10
-1282	2,916876E+09	2,916891E+09	3,517195E+09	3,517201E+09	5,833767E+09	7,034397E+09	1,286816E+10
-1281	2,916860E+09	2,916868E+09	3,517186E+09	3,517122E+09	5,833728E+09	7,034307E+09	1,286804E+10
-1280	2,916782E+09	2,916850E+09	3,517169E+09	3,517184E+09	5,833632E+09	7,034353E+09	1,286799E+10
-1279	2,916906E+09	2,916908E+09	3,517169E+09	3,517226E+09	5,833813E+09	7,034395E+09	1,286821E+10
-1278	2,916815E+09	2,916799E+09	3,517181E+09	3,517103E+09	5,833614E+09	7,034284E+09	1,286790E+10
-1277	2,916812E+09	2,916813E+09	3,517170E+09	3,517170E+09	5,833624E+09	7,034340E+09	1,286796E+10
-1276	2,916900E+09	2,916829E+09	3,517140E+09	3,517147E+09	5,833728E+09	7,034287E+09	1,286801E+10
-1275	2,916740E+09	2,916753E+09	3,517125E+09	3,517112E+09	5,833493E+09	7,034238E+09	1,286773E+10
-1274	2,916769E+09	2,916821E+09	3,517144E+09	3,517190E+09	5,833589E+09	7,034335E+09	1,286792E+10
-1273	2,916779E+09	2,916789E+09	3,517145E+09	3,517090E+09	5,833568E+09	7,034235E+09	1,286780E+10
-1272	2,916671E+09	2,916718E+09	3,517157E+09	3,517114E+09	5,833389E+09	7,034270E+09	1,286766E+10
-1271	2,916792E+09	2,916773E+09	3,517164E+09	3,517184E+09	5,833564E+09	7,034348E+09	1,286791E+10
-1270	2,916745E+09	2,916710E+09	3,517175E+09	3,517082E+09	5,833454E+09	7,034257E+09	1,286771E+10
-1269	2,916701E+09	2,916753E+09	3,517147E+09	3,517174E+09	5,833453E+09	7,034322E+09	1,286778E+10
-1268	2,916845E+09	2,916829E+09	3,517118E+09	3,517186E+09	5,833673E+09	7,034304E+09	1,286798E+10
-1267	2,916755E+09	2,916781E+09	3,517134E+09	3,517112E+09	5,833536E+09	7,034247E+09	1,286778E+10
-1266	2,916812E+09	2,916853E+09	3,517171E+09	3,517181E+09	5,833664E+09	7,034352E+09	1,286802E+10
-1265	2,916922E+09	2,916883E+09	3,517169E+09	3,517105E+09	5,833804E+09	7,034275E+09	1,286808E+10
-1264	2,916819E+09	2,916846E+09	3,517177E+09	3,517125E+09	5,833665E+09	7,034302E+09	1,286797E+10
-1263	2,916912E+09	2,916938E+09	3,517169E+09	3,517229E+09	5,833850E+09	7,034398E+09	1,286825E+10
-1262	2,916909E+09	2,916907E+09	3,517182E+09	3,517123E+09	5,833816E+09	7,034305E+09	1,286812E+10
-1261	2,916825E+09	2,916889E+09	3,517171E+09	3,517177E+09	5,833713E+09	7,034348E+09	1,286806E+10
-1260	2,916970E+09	2,916926E+09	3,517150E+09	3,517192E+09	5,833895E+09	7,034341E+09	1,286824E+10
-1259	2,916890E+09	2,916839E+09	3,517158E+09	3,517095E+09	5,833730E+09	7,034254E+09	1,286798E+10
-1258	2,916842E+09	2,916866E+09	3,517159E+09	3,517177E+09	5,833709E+09	7,034336E+09	1,286805E+10
-1257	2,916926E+09	2,916907E+09	3,517126E+09	3,517134E+09	5,833833E+09	7,034259E+09	1,286809E+10
-1256	2,916770E+09	2,916818E+09	3,517143E+09	3,517106E+09	5,833588E+09	7,034249E+09	1,286784E+10
-1255	2,916794E+09	2,916850E+09	3,517156E+09	3,517190E+09	5,833643E+09	7,034346E+09	1,286799E+10
-1254	2,916836E+09	2,916805E+09	3,517179E+09	3,517080E+09	5,833641E+09	7,034259E+09	1,286790E+10
-1253	2,916716E+09	2,916747E+09	3,517171E+09	3,517127E+09	5,833463E+09	7,034297E+09	1,286776E+10
-1252	2,916840E+09	2,916811E+09	3,517132E+09	3,517197E+09	5,833652E+09	7,034329E+09	1,286798E+10
-1251	2,916806E+09	2,916780E+09	3,517130E+09	3,517111E+09	5,833585E+09	7,034241E+09	1,286783E+10
-1250	2,916737E+09	2,916815E+09	3,517134E+09	3,517181E+09	5,833552E+09	7,034314E+09	1,286787E+10
-1249	2,916909E+09	2,916897E+09	3,517117E+09	3,517144E+09	5,833806E+09	7,034261E+09	1,286807E+10
-1248	2,916837E+09	2,916834E+09	3,517157E+09	3,517075E+09	5,833670E+09	7,034232E+09	1,286790E+10
-1247	2,916868E+09	2,916894E+09	3,517175E+09	3,517176E+09	5,833763E+09	7,034350E+09	1,286811E+10
-1246	2,916980E+09	2,916941E+09	3,517182E+09	3,517111E+09	5,833920E+09	7,034293E+09	1,286821E+10
-1245	2,916846E+09	2,916914E+09	3,517181E+09	3,517151E+09	5,833760E+09	7,034332E+09	1,286809E+10
-1244	2,916950E+09	2,916983E+09	3,517153E+09	3,517233E+09	5,833933E+09	7,034387E+09	1,286832E+10
-1243	2,916975E+09	2,916950E+09	3,517169E+09	3,517129E+09	5,833924E+09	7,034298E+09	1,286822E+10
-1242	2,916875E+09	2,916916E+09	3,517176E+09	3,517174E+09	5,833792E+09	7,034349E+09	1,286814E+10
-1241	2,917030E+09	2,916973E+09	3,517136E+09	3,517167E+09	5,834002E+09	7,034304E+09	1,286831E+10
-1240	2,916938E+09	2,916904E+09	3,517149E+09	3,517091E+09	5,833842E+09	7,034240E+09	1,286808E+10
-1239	2,916861E+09	2,916921E+09	3,517137E+09	3,517186E+09	5,833782E+09	7,034324E+09	1,286811E+10
-1238	2,916959E+09	2,916949E+09	3,517141E+09	3,517120E+09	5,833908E+09	7,034261E+09	1,286817E+10
-1237	2,916798E+09	2,916852E+09	3,517171E+09	3,517099E+09	5,833650E+09	7,034269E+09	1,286792E+10

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							
-1236	2,916843E+09	2,916859E+09	3,517156E+09	3,517176E+09	5,833702E+09	7,034332E+09	1,286803E+10
-1235	2,916900E+09	2,916838E+09	3,517163E+09	3,517100E+09	5,833738E+09	7,034263E+09	1,286800E+10
-1234	2,916753E+09	2,916799E+09	3,517154E+09	3,517154E+09	5,833552E+09	7,034308E+09	1,286786E+10
-1233	2,916889E+09	2,916883E+09	3,517101E+09	3,517188E+09	5,833771E+09	7,034289E+09	1,286806E+10
-1232	2,916866E+09	2,916853E+09	3,517130E+09	3,517094E+09	5,833719E+09	7,034224E+09	1,286794E+10
-1231	2,916795E+09	2,916863E+09	3,517138E+09	3,517157E+09	5,833657E+09	7,034296E+09	1,286795E+10
-1230	2,916983E+09	2,916936E+09	3,517153E+09	3,517113E+09	5,833919E+09	7,034266E+09	1,286818E+10
-1229	2,916885E+09	2,916891E+09	3,517185E+09	3,517083E+09	5,833777E+09	7,034268E+09	1,286804E+10
-1228	2,916907E+09	2,916947E+09	3,517156E+09	3,517196E+09	5,833853E+09	7,034352E+09	1,286821E+10
-1227	2,917026E+09	2,917008E+09	3,517152E+09	3,517152E+09	5,834033E+09	7,034304E+09	1,286834E+10
-1226	2,916882E+09	2,916961E+09	3,517172E+09	3,517169E+09	5,833843E+09	7,034341E+09	1,286818E+10
-1225	2,917016E+09	2,917024E+09	3,517140E+09	3,517201E+09	5,834040E+09	7,034342E+09	1,286838E+10
-1224	2,917059E+09	2,916994E+09	3,517168E+09	3,517100E+09	5,834053E+09	7,034268E+09	1,286832E+10
-1223	2,916931E+09	2,916959E+09	3,517160E+09	3,517161E+09	5,833891E+09	7,034320E+09	1,286821E+10
-1222	2,917078E+09	2,917034E+09	3,517142E+09	3,517155E+09	5,834111E+09	7,034297E+09	1,286841E+10
-1221	2,916953E+09	2,916976E+09	3,517165E+09	3,517095E+09	5,833929E+09	7,034261E+09	1,286819E+10
-1220	2,916877E+09	2,916960E+09	3,517145E+09	3,517181E+09	5,833837E+09	7,034326E+09	1,286816E+10
-1219	2,917003E+09	2,916981E+09	3,517151E+09	3,517131E+09	5,833983E+09	7,034282E+09	1,286827E+10
-1218	2,916833E+09	2,916861E+09	3,517188E+09	3,517114E+09	5,833695E+09	7,034302E+09	1,286800E+10
-1217	2,916895E+09	2,916889E+09	3,517140E+09	3,517176E+09	5,833784E+09	7,034316E+09	1,286810E+10
-1216	2,916957E+09	2,916893E+09	3,517133E+09	3,517110E+09	5,833850E+09	7,034243E+09	1,286809E+10
-1215	2,916789E+09	2,916854E+09	3,517115E+09	3,517157E+09	5,833643E+09	7,034272E+09	1,286791E+10
-1214	2,916951E+09	2,916937E+09	3,517104E+09	3,517155E+09	5,833888E+09	7,034259E+09	1,286815E+10
-1213	2,916921E+09	2,916911E+09	3,517154E+09	3,517062E+09	5,833832E+09	7,034215E+09	1,286805E+10
-1212	2,916856E+09	2,916902E+09	3,517146E+09	3,517133E+09	5,833759E+09	7,034280E+09	1,286804E+10
-1211	2,917043E+09	2,916999E+09	3,517148E+09	3,517133E+09	5,834042E+09	7,034281E+09	1,286832E+10
-1210	2,916913E+09	2,916958E+09	3,517189E+09	3,517121E+09	5,833871E+09	7,034310E+09	1,286818E+10
-1209	2,916946E+09	2,917016E+09	3,517143E+09	3,517206E+09	5,833962E+09	7,034349E+09	1,286831E+10
-1208	2,917085E+09	2,917068E+09	3,517154E+09	3,517153E+09	5,834153E+09	7,034307E+09	1,286846E+10
-1207	2,916945E+09	2,916995E+09	3,517168E+09	3,517158E+09	5,833939E+09	7,034326E+09	1,286827E+10
-1206	2,917100E+09	2,917053E+09	3,517154E+09	3,517172E+09	5,834153E+09	7,034326E+09	1,286848E+10
-1205	2,917109E+09	2,917054E+09	3,517176E+09	3,517094E+09	5,834162E+09	7,034270E+09	1,286843E+10
-1204	2,916964E+09	2,917015E+09	3,517137E+09	3,517162E+09	5,833980E+09	7,034298E+09	1,286828E+10
-1203	2,917104E+09	2,917096E+09	3,517127E+09	3,517171E+09	5,834200E+09	7,034298E+09	1,286850E+10
-1202	2,916969E+09	2,917012E+09	3,517184E+09	3,517104E+09	5,833981E+09	7,034288E+09	1,286827E+10
-1201	2,916921E+09	2,916977E+09	3,517148E+09	3,517156E+09	5,833898E+09	7,034305E+09	1,286820E+10
-1200	2,917062E+09	2,917004E+09	3,517152E+09	3,517125E+09	5,834066E+09	7,034276E+09	1,286834E+10
-1199	2,916881E+09	2,916891E+09	3,517160E+09	3,517122E+09	5,833772E+09	7,034282E+09	1,286805E+10
-1198	2,916950E+09	2,916938E+09	3,517122E+09	3,517171E+09	5,833887E+09	7,034293E+09	1,286818E+10
-1197	2,916991E+09	2,916971E+09	3,517131E+09	3,517104E+09	5,833962E+09	7,034236E+09	1,286820E+10
-1196	2,916835E+09	2,916908E+09	3,517111E+09	3,517132E+09	5,833743E+09	7,034243E+09	1,286799E+10
-1195	2,917011E+09	2,916993E+09	3,517117E+09	3,517144E+09	5,834004E+09	7,034260E+09	1,286826E+10
-1194	2,916967E+09	2,916956E+09	3,517185E+09	3,517070E+09	5,833922E+09	7,034255E+09	1,286818E+10
-1193	2,916902E+09	2,916957E+09	3,517145E+09	3,517142E+09	5,833859E+09	7,034287E+09	1,286815E+10
-1192	2,917088E+09	2,917072E+09	3,517135E+09	3,517163E+09	5,834161E+09	7,034298E+09	1,286846E+10
-1191	2,916953E+09	2,917010E+09	3,517166E+09	3,517143E+09	5,833963E+09	7,034309E+09	1,286827E+10
-1190	2,917022E+09	2,917053E+09	3,517149E+09	3,517186E+09	5,834074E+09	7,034335E+09	1,286841E+10
-1189	2,917158E+09	2,917114E+09	3,517168E+09	3,517124E+09	5,834272E+09	7,034293E+09	1,286856E+10
-1188	2,917019E+09	2,917032E+09	3,517157E+09	3,517131E+09	5,834051E+09	7,034289E+09	1,286834E+10

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	2,917162E+09	2,917122E+09	3,517138E+09	3,517176E+09	5,834284E+09	7,034314E+09	1,286860E+10
-1186	2,917128E+09	2,917122E+09	3,517178E+09	3,517111E+09	5,834250E+09	7,034289E+09	1,286854E+10
-1185	2,916984E+09	2,917076E+09	3,517137E+09	3,517157E+09	5,834061E+09	7,034294E+09	1,286835E+10
-1184	2,917137E+09	2,917142E+09	3,517140E+09	3,517167E+09	5,834279E+09	7,034307E+09	1,286859E+10
-1183	2,917005E+09	2,917021E+09	3,517193E+09	3,517104E+09	5,834026E+09	7,034297E+09	1,286832E+10
-1182	2,916984E+09	2,916984E+09	3,517160E+09	3,517148E+09	5,833968E+09	7,034307E+09	1,286828E+10
-1181	2,917102E+09	2,917046E+09	3,517142E+09	3,517133E+09	5,834148E+09	7,034276E+09	1,286842E+10
-1180	2,916919E+09	2,916941E+09	3,517115E+09	3,517127E+09	5,833860E+09	7,034242E+09	1,286810E+10
-1179	2,916996E+09	2,917004E+09	3,517089E+09	3,517170E+09	5,834000E+09	7,034259E+09	1,286826E+10
-1178	2,917029E+09	2,917023E+09	3,517143E+09	3,517089E+09	5,834052E+09	7,034232E+09	1,286828E+10
-1177	2,916894E+09	2,916953E+09	3,517123E+09	3,517096E+09	5,833847E+09	7,034219E+09	1,286807E+10
-1176	2,917071E+09	2,917049E+09	3,517133E+09	3,517135E+09	5,834119E+09	7,034267E+09	1,286839E+10
-1175	2,917008E+09	2,917009E+09	3,517184E+09	3,517092E+09	5,834017E+09	7,034277E+09	1,286829E+10
-1174	2,916957E+09	2,917013E+09	3,517150E+09	3,517155E+09	5,833970E+09	7,034304E+09	1,286827E+10
-1173	2,917129E+09	2,917142E+09	3,517147E+09	3,517173E+09	5,834271E+09	7,034320E+09	1,286859E+10
-1172	2,917021E+09	2,917052E+09	3,517157E+09	3,517133E+09	5,834073E+09	7,034290E+09	1,286836E+10
-1171	2,917104E+09	2,917098E+09	3,517143E+09	3,517177E+09	5,834202E+09	7,034320E+09	1,286852E+10
-1170	2,917219E+09	2,917162E+09	3,517180E+09	3,517126E+09	5,834381E+09	7,034306E+09	1,286869E+10
-1169	2,917070E+09	2,917095E+09	3,517137E+09	3,517123E+09	5,834165E+09	7,034260E+09	1,286842E+10
-1168	2,917192E+09	2,917201E+09	3,517121E+09	3,517183E+09	5,834393E+09	7,034304E+09	1,286870E+10
-1167	2,917149E+09	2,917171E+09	3,517169E+09	3,517119E+09	5,834320E+09	7,034288E+09	1,286861E+10
-1166	2,917035E+09	2,917096E+09	3,517155E+09	3,517135E+09	5,834130E+09	7,034290E+09	1,286842E+10
-1165	2,917180E+09	2,917169E+09	3,517161E+09	3,517150E+09	5,834350E+09	7,034311E+09	1,286866E+10
-1164	2,917061E+09	2,917036E+09	3,517173E+09	3,517098E+09	5,834098E+09	7,034271E+09	1,286837E+10
-1163	2,917035E+09	2,917033E+09	3,517127E+09	3,517161E+09	5,834069E+09	7,034288E+09	1,286836E+10
-1162	2,917127E+09	2,917106E+09	3,517131E+09	3,517148E+09	5,834234E+09	7,034280E+09	1,286851E+10
-1161	2,916955E+09	2,917003E+09	3,517104E+09	3,517106E+09	5,833959E+09	7,034210E+09	1,286817E+10
-1160	2,917044E+09	2,917067E+09	3,517102E+09	3,517147E+09	5,834111E+09	7,034250E+09	1,286836E+10
-1159	2,917079E+09	2,917057E+09	3,517163E+09	3,517080E+09	5,834135E+09	7,034243E+09	1,286838E+10
-1158	2,916961E+09	2,916984E+09	3,517151E+09	3,517091E+09	5,833945E+09	7,034243E+09	1,286819E+10
-1157	2,917105E+09	2,917113E+09	3,517143E+09	3,517155E+09	5,834218E+09	7,034298E+09	1,286852E+10
-1156	2,917048E+09	2,917062E+09	3,517157E+09	3,517119E+09	5,834110E+09	7,034276E+09	1,286839E+10
-1155	2,917019E+09	2,917071E+09	3,517128E+09	3,517170E+09	5,834090E+09	7,034298E+09	1,286839E+10
-1154	2,917191E+09	2,917181E+09	3,517151E+09	3,517166E+09	5,834372E+09	7,034317E+09	1,286869E+10
-1153	2,917101E+09	2,917098E+09	3,517144E+09	3,517099E+09	5,834199E+09	7,034243E+09	1,286844E+10
-1152	2,917180E+09	2,917169E+09	3,517127E+09	3,517160E+09	5,834349E+09	7,034287E+09	1,286864E+10
-1151	2,917259E+09	2,917230E+09	3,517164E+09	3,517132E+09	5,834489E+09	7,034296E+09	1,286879E+10
-1150	2,917113E+09	2,917162E+09	3,517146E+09	3,517120E+09	5,834275E+09	7,034266E+09	1,286854E+10
-1149	2,917209E+09	2,917266E+09	3,517149E+09	3,517177E+09	5,834475E+09	7,034325E+09	1,286880E+10
-1148	2,917189E+09	2,917194E+09	3,517178E+09	3,517114E+09	5,834383E+09	7,034292E+09	1,286868E+10
-1147	2,917095E+09	2,917111E+09	3,517159E+09	3,517138E+09	5,834207E+09	7,034296E+09	1,286850E+10
-1146	2,917221E+09	2,917187E+09	3,517164E+09	3,517168E+09	5,834408E+09	7,034332E+09	1,286874E+10
-1145	2,917103E+09	2,917082E+09	3,517133E+09	3,517102E+09	5,834185E+09	7,034235E+09	1,286842E+10
-1144	2,917074E+09	2,917104E+09	3,517088E+09	3,517163E+09	5,834178E+09	7,034251E+09	1,286843E+10
-1143	2,917163E+09	2,917154E+09	3,517119E+09	3,517137E+09	5,834316E+09	7,034257E+09	1,286857E+10
-1142	2,917022E+09	2,917038E+09	3,517126E+09	3,517065E+09	5,834060E+09	7,034191E+09	1,286825E+10
-1141	2,917090E+09	2,917117E+09	3,517138E+09	3,517119E+09	5,834207E+09	7,034257E+09	1,286846E+10
-1140	2,917133E+09	2,917097E+09	3,517161E+09	3,517086E+09	5,834230E+09	7,034247E+09	1,286848E+10
-1139	2,917010E+09	2,917043E+09	3,517139E+09	3,517120E+09	5,834052E+09	7,034259E+09	1,286831E+10

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							
-1138	2,917134E+09	2,917174E+09	3,517146E+09	3,517190E+09	5,834308E+09	7,034335E+09	1,286864E+10
-1137	2,917102E+09	2,917118E+09	3,517138E+09	3,517115E+09	5,834220E+09	7,034253E+09	1,286847E+10
-1136	2,917091E+09	2,917132E+09	3,517117E+09	3,517156E+09	5,834222E+09	7,034273E+09	1,286850E+10
-1135	2,917264E+09	2,917222E+09	3,517150E+09	3,517156E+09	5,834486E+09	7,034306E+09	1,286879E+10
-1134	2,917182E+09	2,917149E+09	3,517148E+09	3,517080E+09	5,834331E+09	7,034228E+09	1,286856E+10
-1133	2,917215E+09	2,917255E+09	3,517132E+09	3,517155E+09	5,834470E+09	7,034287E+09	1,286876E+10
-1132	2,917294E+09	2,917291E+09	3,517145E+09	3,517140E+09	5,834585E+09	7,034285E+09	1,286887E+10
-1131	2,917158E+09	2,917207E+09	3,517151E+09	3,517121E+09	5,834365E+09	7,034272E+09	1,286864E+10
-1130	2,917245E+09	2,917287E+09	3,517176E+09	3,517176E+09	5,834532E+09	7,034352E+09	1,286888E+10
-1129	2,917245E+09	2,917212E+09	3,517170E+09	3,517100E+09	5,834457E+09	7,034270E+09	1,286873E+10
-1128	2,917152E+09	2,917159E+09	3,517131E+09	3,517143E+09	5,834311E+09	7,034274E+09	1,286859E+10
-1127	2,917257E+09	2,917232E+09	3,517135E+09	3,517183E+09	5,834490E+09	7,034318E+09	1,286881E+10
-1126	2,917152E+09	2,917139E+09	3,517124E+09	3,517089E+09	5,834291E+09	7,034213E+09	1,286850E+10
-1125	2,917105E+09	2,917173E+09	3,517109E+09	3,517133E+09	5,834278E+09	7,034242E+09	1,286852E+10
-1124	2,917209E+09	2,917189E+09	3,517130E+09	3,517117E+09	5,834398E+09	7,034247E+09	1,286865E+10
-1123	2,917084E+09	2,917071E+09	3,517148E+09	3,517065E+09	5,834155E+09	7,034214E+09	1,286837E+10
-1122	2,917119E+09	2,917151E+09	3,517156E+09	3,517144E+09	5,834271E+09	7,034300E+09	1,286857E+10
-1121	2,917163E+09	2,917151E+09	3,517132E+09	3,517110E+09	5,834313E+09	7,034242E+09	1,286855E+10
-1120	2,917055E+09	2,917113E+09	3,517100E+09	3,517140E+09	5,834168E+09	7,034240E+09	1,286841E+10
-1119	2,917188E+09	2,917210E+09	3,517129E+09	3,517190E+09	5,834398E+09	7,034318E+09	1,286872E+10
-1118	2,917195E+09	2,917159E+09	3,517140E+09	3,517076E+09	5,834354E+09	7,034217E+09	1,286857E+10
-1117	2,917166E+09	2,917197E+09	3,517130E+09	3,517116E+09	5,834363E+09	7,034246E+09	1,286861E+10
-1116	2,917331E+09	2,917283E+09	3,517136E+09	3,517147E+09	5,834614E+09	7,034283E+09	1,286890E+10
-1115	2,917236E+09	2,917228E+09	3,517148E+09	3,517088E+09	5,834463E+09	7,034236E+09	1,286870E+10
-1114	2,917232E+09	2,917322E+09	3,517157E+09	3,517173E+09	5,834554E+09	7,034330E+09	1,286888E+10
-1113	2,917327E+09	2,917340E+09	3,517152E+09	3,517138E+09	5,834667E+09	7,034291E+09	1,286896E+10
-1112	2,917214E+09	2,917246E+09	3,517153E+09	3,517124E+09	5,834460E+09	7,034277E+09	1,286874E+10
-1111	2,917299E+09	2,917296E+09	3,517179E+09	3,517189E+09	5,834595E+09	7,034368E+09	1,286896E+10
-1110	2,917312E+09	2,917243E+09	3,517155E+09	3,517101E+09	5,834555E+09	7,034256E+09	1,286881E+10
-1109	2,917183E+09	2,917230E+09	3,517111E+09	3,517140E+09	5,834414E+09	7,034251E+09	1,286867E+10
-1108	2,917297E+09	2,917285E+09	3,517100E+09	3,517180E+09	5,834581E+09	7,034280E+09	1,286886E+10
-1107	2,917204E+09	2,917182E+09	3,517125E+09	3,517065E+09	5,834386E+09	7,034190E+09	1,286858E+10
-1106	2,917139E+09	2,917206E+09	3,517142E+09	3,517114E+09	5,834345E+09	7,034257E+09	1,286860E+10
-1105	2,917255E+09	2,917222E+09	3,517129E+09	3,517100E+09	5,834477E+09	7,034229E+09	1,286871E+10
-1104	2,917125E+09	2,917129E+09	3,517131E+09	3,517083E+09	5,834255E+09	7,034214E+09	1,286847E+10
-1103	2,917146E+09	2,917198E+09	3,517145E+09	3,517178E+09	5,834344E+09	7,034323E+09	1,286867E+10
-1102	2,917216E+09	2,917202E+09	3,517126E+09	3,517112E+09	5,834418E+09	7,034237E+09	1,286866E+10
-1101	2,917108E+09	2,917180E+09	3,517111E+09	3,517117E+09	5,834288E+09	7,034228E+09	1,286852E+10
-1100	2,917269E+09	2,917247E+09	3,517121E+09	3,517170E+09	5,834516E+09	7,034290E+09	1,286881E+10
-1099	2,917283E+09	2,917206E+09	3,517148E+09	3,517061E+09	5,834489E+09	7,034210E+09	1,286870E+10
-1098	2,917211E+09	2,917263E+09	3,517145E+09	3,517125E+09	5,834474E+09	7,034271E+09	1,286874E+10
-1097	2,917362E+09	2,917359E+09	3,517117E+09	3,517155E+09	5,834722E+09	7,034272E+09	1,286899E+10
-1096	2,917275E+09	2,917306E+09	3,517135E+09	3,517105E+09	5,834580E+09	7,034240E+09	1,286882E+10
-1095	2,917272E+09	2,917350E+09	3,517170E+09	3,517181E+09	5,834622E+09	7,034351E+09	1,286897E+10
-1094	2,917398E+09	2,917364E+09	3,517163E+09	3,517122E+09	5,834762E+09	7,034285E+09	1,286905E+10
-1093	2,917275E+09	2,917292E+09	3,517157E+09	3,517108E+09	5,834568E+09	7,034265E+09	1,286883E+10
-1092	2,917356E+09	2,917333E+09	3,517142E+09	3,517196E+09	5,834688E+09	7,034338E+09	1,286903E+10
-1091	2,917363E+09	2,917304E+09	3,517136E+09	3,517104E+09	5,834666E+09	7,034240E+09	1,286891E+10
-1090	2,917204E+09	2,917288E+09	3,517121E+09	3,517133E+09	5,834492E+09	7,034254E+09	1,286875E+10

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	2,917323E+09	2,917329E+09	3,517101E+09	3,517151E+09	5,834653E+09	7,034252E+09	1,286891E+10
-1088	2,917253E+09	2,917228E+09	3,517133E+09	3,517053E+09	5,834481E+09	7,034187E+09	1,286867E+10
-1087	2,917175E+09	2,917219E+09	3,517160E+09	3,517127E+09	5,834394E+09	7,034287E+09	1,286868E+10
-1086	2,917297E+09	2,917262E+09	3,517124E+09	3,517113E+09	5,834559E+09	7,034238E+09	1,286880E+10
-1085	2,917155E+09	2,917197E+09	3,517118E+09	3,517092E+09	5,834352E+09	7,034211E+09	1,286856E+10
-1084	2,917198E+09	2,917234E+09	3,517114E+09	3,517186E+09	5,834432E+09	7,034299E+09	1,286873E+10
-1083	2,917296E+09	2,917240E+09	3,517125E+09	3,517090E+09	5,834536E+09	7,034216E+09	1,286875E+10
-1082	2,917175E+09	2,917225E+09	3,517131E+09	3,517092E+09	5,834400E+09	7,034223E+09	1,286862E+10
-1081	2,917336E+09	2,917307E+09	3,517108E+09	3,517148E+09	5,834643E+09	7,034257E+09	1,286890E+10
-1080	2,917341E+09	2,917300E+09	3,517128E+09	3,517071E+09	5,834641E+09	7,034200E+09	1,286884E+10
-1079	2,917241E+09	2,917333E+09	3,517153E+09	3,517152E+09	5,834575E+09	7,034305E+09	1,286888E+10
-1078	2,917405E+09	2,917427E+09	3,517131E+09	3,517157E+09	5,834832E+09	7,034288E+09	1,286912E+10
-1077	2,917318E+09	2,917367E+09	3,517166E+09	3,517095E+09	5,834685E+09	7,034261E+09	1,286895E+10
-1076	2,917341E+09	2,917367E+09	3,517171E+09	3,517186E+09	5,834708E+09	7,034357E+09	1,286907E+10
-1075	2,917475E+09	2,917384E+09	3,517162E+09	3,517123E+09	5,834859E+09	7,034285E+09	1,286914E+10
-1074	2,917312E+09	2,917342E+09	3,517146E+09	3,517121E+09	5,834654E+09	7,034267E+09	1,286892E+10
-1073	2,917388E+09	2,917392E+09	3,517094E+09	3,517190E+09	5,834780E+09	7,034284E+09	1,286906E+10
-1072	2,917401E+09	2,917370E+09	3,517106E+09	3,517092E+09	5,834771E+09	7,034197E+09	1,286897E+10
-1071	2,917240E+09	2,917314E+09	3,517139E+09	3,517115E+09	5,834554E+09	7,034254E+09	1,286881E+10
-1070	2,917375E+09	2,917357E+09	3,517121E+09	3,517117E+09	5,834733E+09	7,034238E+09	1,286897E+10
-1069	2,917292E+09	2,917279E+09	3,517153E+09	3,517040E+09	5,834571E+09	7,034193E+09	1,286876E+10
-1068	2,917214E+09	2,917253E+09	3,517140E+09	3,517152E+09	5,834467E+09	7,034292E+09	1,286876E+10
-1067	2,917340E+09	2,917308E+09	3,517119E+09	3,517131E+09	5,834648E+09	7,034250E+09	1,286890E+10
-1066	2,917188E+09	2,917251E+09	3,517128E+09	3,517099E+09	5,834439E+09	7,034228E+09	1,286867E+10
-1065	2,917254E+09	2,917279E+09	3,517100E+09	3,517165E+09	5,834533E+09	7,034265E+09	1,286880E+10
-1064	2,917374E+09	2,917301E+09	3,517116E+09	3,517081E+09	5,834675E+09	7,034197E+09	1,286887E+10
-1063	2,917236E+09	2,917270E+09	3,517142E+09	3,517099E+09	5,834506E+09	7,034242E+09	1,286875E+10
-1062	2,917384E+09	2,917385E+09	3,517104E+09	3,517150E+09	5,834769E+09	7,034254E+09	1,286902E+10
-1061	2,917376E+09	2,917395E+09	3,517134E+09	3,517075E+09	5,834771E+09	7,034209E+09	1,286898E+10
-1060	2,917290E+09	2,917374E+09	3,517146E+09	3,517162E+09	5,834663E+09	7,034308E+09	1,286897E+10
-1059	2,917475E+09	2,917455E+09	3,517151E+09	3,517145E+09	5,834930E+09	7,034297E+09	1,286923E+10
-1058	2,917381E+09	2,917395E+09	3,517182E+09	3,517087E+09	5,834776E+09	7,034269E+09	1,286904E+10
-1057	2,917400E+09	2,917402E+09	3,517138E+09	3,517178E+09	5,834802E+09	7,034317E+09	1,286912E+10
-1056	2,917530E+09	2,917459E+09	3,517118E+09	3,517134E+09	5,834988E+09	7,034252E+09	1,286924E+10
-1055	2,917344E+09	2,917395E+09	3,517137E+09	3,517127E+09	5,834739E+09	7,034264E+09	1,286900E+10
-1054	2,917424E+09	2,917453E+09	3,517098E+09	3,517161E+09	5,834877E+09	7,034259E+09	1,286914E+10
-1053	2,917440E+09	2,917429E+09	3,517135E+09	3,517056E+09	5,834869E+09	7,034191E+09	1,286906E+10
-1052	2,917291E+09	2,917325E+09	3,517152E+09	3,517113E+09	5,834616E+09	7,034265E+09	1,286888E+10
-1051	2,917423E+09	2,917379E+09	3,517138E+09	3,517126E+09	5,834802E+09	7,034264E+09	1,286907E+10
-1050	2,917309E+09	2,917325E+09	3,517154E+09	3,517072E+09	5,834635E+09	7,034226E+09	1,286886E+10
-1049	2,917240E+09	2,917299E+09	3,517098E+09	3,517168E+09	5,834540E+09	7,034266E+09	1,286881E+10
-1048	2,917395E+09	2,917363E+09	3,517086E+09	3,517133E+09	5,834758E+09	7,034219E+09	1,286898E+10
-1047	2,917252E+09	2,917281E+09	3,517134E+09	3,517085E+09	5,834532E+09	7,034220E+09	1,286875E+10
-1046	2,917333E+09	2,917333E+09	3,517099E+09	3,517128E+09	5,834666E+09	7,034226E+09	1,286889E+10
-1045	2,917434E+09	2,917386E+09	3,517124E+09	3,517058E+09	5,834821E+09	7,034183E+09	1,286900E+10
-1044	2,917288E+09	2,917336E+09	3,517135E+09	3,517117E+09	5,834625E+09	7,034251E+09	1,286888E+10
-1043	2,917428E+09	2,917447E+09	3,517122E+09	3,517154E+09	5,834876E+09	7,034276E+09	1,286915E+10
-1042	2,917406E+09	2,917453E+09	3,517167E+09	3,517084E+09	5,834859E+09	7,034252E+09	1,286911E+10
-1041	2,917345E+09	2,917406E+09	3,517142E+09	3,517157E+09	5,834752E+09	7,034299E+09	1,286905E+10

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	2,917551E+09	2,917492E+09	3,517136E+09	3,517152E+09	5,835043E+09	7,034288E+09	1,286933E+10
-1039	2,917442E+09	2,917427E+09	3,517173E+09	3,517106E+09	5,834869E+09	7,034279E+09	1,286915E+10
-1038	2,917451E+09	2,917471E+09	3,517101E+09	3,517174E+09	5,834922E+09	7,034275E+09	1,286920E+10
-1037	2,917567E+09	2,917544E+09	3,517104E+09	3,517115E+09	5,835110E+09	7,034219E+09	1,286933E+10
-1036	2,917392E+09	2,917432E+09	3,517130E+09	3,517112E+09	5,834824E+09	7,034241E+09	1,286907E+10
-1035	2,917477E+09	2,917479E+09	3,517130E+09	3,517126E+09	5,834955E+09	7,034256E+09	1,286921E+10
-1034	2,917475E+09	2,917464E+09	3,517167E+09	3,517050E+09	5,834939E+09	7,034218E+09	1,286916E+10
-1033	2,917323E+09	2,917358E+09	3,517133E+09	3,517124E+09	5,834681E+09	7,034256E+09	1,286894E+10
-1032	2,917455E+09	2,917439E+09	3,517106E+09	3,517159E+09	5,834894E+09	7,034265E+09	1,286916E+10
-1031	2,917339E+09	2,917363E+09	3,517150E+09	3,517099E+09	5,834702E+09	7,034248E+09	1,286895E+10
-1030	2,917288E+09	2,917352E+09	3,517089E+09	3,517149E+09	5,834640E+09	7,034238E+09	1,286888E+10
-1029	2,917462E+09	2,917423E+09	3,517100E+09	3,517099E+09	5,834886E+09	7,034199E+09	1,286908E+10
-1028	2,917331E+09	2,917307E+09	3,517132E+09	3,517074E+09	5,834638E+09	7,034206E+09	1,286884E+10
-1027	2,917396E+09	2,917385E+09	3,517112E+09	3,517117E+09	5,834780E+09	7,034229E+09	1,286901E+10
-1026	2,917464E+09	2,917465E+09	3,517130E+09	3,517073E+09	5,834929E+09	7,034202E+09	1,286913E+10
-1025	2,917320E+09	2,917393E+09	3,517113E+09	3,517126E+09	5,834713E+09	7,034238E+09	1,286895E+10
-1024	2,917482E+09	2,917504E+09	3,517112E+09	3,517162E+09	5,834986E+09	7,034274E+09	1,286926E+10
-1023	2,917472E+09	2,917473E+09	3,517184E+09	3,517088E+09	5,834944E+09	7,034272E+09	1,286922E+10
-1022	2,917423E+09	2,917452E+09	3,517128E+09	3,517140E+09	5,834875E+09	7,034268E+09	1,286914E+10
-1021	2,917618E+09	2,917569E+09	3,517120E+09	3,517141E+09	5,835187E+09	7,034261E+09	1,286945E+10
-1020	2,917499E+09	2,917487E+09	3,517142E+09	3,517115E+09	5,834987E+09	7,034257E+09	1,286924E+10
-1019	2,917498E+09	2,917536E+09	3,517110E+09	3,517154E+09	5,835034E+09	7,034264E+09	1,286930E+10
-1018	2,917593E+09	2,917606E+09	3,517137E+09	3,517099E+09	5,835200E+09	7,034236E+09	1,286944E+10
-1017	2,917432E+09	2,917461E+09	3,517140E+09	3,517098E+09	5,834894E+09	7,034238E+09	1,286913E+10
-1016	2,917522E+09	2,917512E+09	3,517132E+09	3,517137E+09	5,835034E+09	7,034270E+09	1,286930E+10
-1015	2,917503E+09	2,917485E+09	3,517174E+09	3,517089E+09	5,834988E+09	7,034263E+09	1,286925E+10
-1014	2,917353E+09	2,917411E+09	3,517098E+09	3,517139E+09	5,834764E+09	7,034237E+09	1,286900E+10
-1013	2,917493E+09	2,917496E+09	3,517087E+09	3,517152E+09	5,834990E+09	7,034238E+09	1,286923E+10
-1012	2,917405E+09	2,917385E+09	3,517131E+09	3,517086E+09	5,834790E+09	7,034217E+09	1,286901E+10
-1011	2,917369E+09	2,917379E+09	3,517100E+09	3,517101E+09	5,834747E+09	7,034201E+09	1,286895E+10
-1010	2,917516E+09	2,917479E+09	3,517116E+09	3,517077E+09	5,834995E+09	7,034192E+09	1,286919E+10
-1009	2,917377E+09	2,917372E+09	3,517112E+09	3,517072E+09	5,834749E+09	7,034184E+09	1,286893E+10
-1008	2,917430E+09	2,917467E+09	3,517097E+09	3,517137E+09	5,834898E+09	7,034233E+09	1,286913E+10
-1007	2,917492E+09	2,917520E+09	3,517151E+09	3,517101E+09	5,835012E+09	7,034252E+09	1,286926E+10
-1006	2,917370E+09	2,917450E+09	3,517117E+09	3,517119E+09	5,834820E+09	7,034236E+09	1,286906E+10
-1005	2,917553E+09	2,917555E+09	3,517128E+09	3,517148E+09	5,835108E+09	7,034276E+09	1,286938E+10
-1004	2,917557E+09	2,917498E+09	3,517171E+09	3,517100E+09	5,835054E+09	7,034271E+09	1,286932E+10
-1003	2,917495E+09	2,917505E+09	3,517118E+09	3,517136E+09	5,835000E+09	7,034254E+09	1,286925E+10
-1002	2,917654E+09	2,917653E+09	3,517109E+09	3,517146E+09	5,835307E+09	7,034256E+09	1,286956E+10
-1001	2,917540E+09	2,917548E+09	3,517115E+09	3,517102E+09	5,835088E+09	7,034218E+09	1,286931E+10
-1000	2,917547E+09	2,917591E+09	3,517111E+09	3,517136E+09	5,835137E+09	7,034247E+09	1,286938E+10
-999	2,917640E+09	2,917626E+09	3,517169E+09	3,517096E+09	5,835266E+09	7,034265E+09	1,286953E+10
-998	2,917476E+09	2,917499E+09	3,517140E+09	3,517091E+09	5,834976E+09	7,034231E+09	1,286921E+10
-997	2,917559E+09	2,917569E+09	3,517129E+09	3,517146E+09	5,835128E+09	7,034275E+09	1,286940E+10
-996	2,917542E+09	2,917513E+09	3,517146E+09	3,517115E+09	5,835055E+09	7,034261E+09	1,286932E+10
-995	2,917399E+09	2,917448E+09	3,517097E+09	3,517124E+09	5,834847E+09	7,034221E+09	1,286907E+10
-994	2,917537E+09	2,917545E+09	3,517097E+09	3,517131E+09	5,835082E+09	7,034228E+09	1,286931E+10
-993	2,917466E+09	2,917416E+09	3,517117E+09	3,517060E+09	5,834882E+09	7,034177E+09	1,286906E+10
-992	2,917429E+09	2,917434E+09	3,517092E+09	3,517096E+09	5,834864E+09	7,034188E+09	1,286905E+10

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							
-991	2,917549E+09	2,917533E+09	3,517122E+09	3,517101E+09	5,835082E+09	7,034224E+09	1,286931E+10
-990	2,917404E+09	2,917452E+09	3,517094E+09	3,517083E+09	5,834857E+09	7,034176E+09	1,286903E+10
-989	2,917469E+09	2,917539E+09	3,517102E+09	3,517135E+09	5,835008E+09	7,034237E+09	1,286925E+10
-988	2,917557E+09	2,917543E+09	3,517152E+09	3,517106E+09	5,835101E+09	7,034257E+09	1,286936E+10
-987	2,917458E+09	2,917480E+09	3,517131E+09	3,517095E+09	5,834938E+09	7,034226E+09	1,286916E+10
-986	2,917621E+09	2,917613E+09	3,517131E+09	3,517144E+09	5,835234E+09	7,034275E+09	1,286951E+10
-985	2,917619E+09	2,917565E+09	3,517133E+09	3,517104E+09	5,835184E+09	7,034237E+09	1,286942E+10
-984	2,917547E+09	2,917593E+09	3,517094E+09	3,517140E+09	5,835139E+09	7,034235E+09	1,286937E+10
-983	2,917686E+09	2,917711E+09	3,517133E+09	3,517153E+09	5,835397E+09	7,034285E+09	1,286968E+10
-982	2,917583E+09	2,917609E+09	3,517130E+09	3,517080E+09	5,835192E+09	7,034211E+09	1,286940E+10
-981	2,917597E+09	2,917631E+09	3,517140E+09	3,517118E+09	5,835228E+09	7,034258E+09	1,286949E+10
-980	2,917690E+09	2,917637E+09	3,517169E+09	3,517119E+09	5,835326E+09	7,034288E+09	1,286961E+10
-979	2,917522E+09	2,917530E+09	3,517129E+09	3,517100E+09	5,835051E+09	7,034229E+09	1,286928E+10
-978	2,917578E+09	2,917618E+09	3,517111E+09	3,517160E+09	5,835196E+09	7,034271E+09	1,286947E+10
-977	2,917583E+09	2,917546E+09	3,517107E+09	3,517106E+09	5,835129E+09	7,034213E+09	1,286934E+10
-976	2,917460E+09	2,917488E+09	3,517079E+09	3,517097E+09	5,834949E+09	7,034175E+09	1,286912E+10
-975	2,917592E+09	2,917574E+09	3,517112E+09	3,517116E+09	5,835165E+09	7,034228E+09	1,286939E+10
-974	2,917516E+09	2,917483E+09	3,517104E+09	3,517040E+09	5,834999E+09	7,034144E+09	1,286914E+10
-973	2,917466E+09	2,917518E+09	3,517096E+09	3,517094E+09	5,834984E+09	7,034190E+09	1,286917E+10
-972	2,917581E+09	2,917586E+09	3,517121E+09	3,517128E+09	5,835167E+09	7,034249E+09	1,286942E+10
-971	2,917452E+09	2,917500E+09	3,517120E+09	3,517077E+09	5,834951E+09	7,034197E+09	1,286915E+10
-970	2,917519E+09	2,917585E+09	3,517132E+09	3,517134E+09	5,835104E+09	7,034266E+09	1,286937E+10
-969	2,917634E+09	2,917569E+09	3,517140E+09	3,517105E+09	5,835203E+09	7,034245E+09	1,286945E+10
-968	2,917537E+09	2,917536E+09	3,517110E+09	3,517103E+09	5,835074E+09	7,034213E+09	1,286929E+10
-967	2,917674E+09	2,917676E+09	3,517118E+09	3,517169E+09	5,835350E+09	7,034287E+09	1,286964E+10
-966	2,917661E+09	2,917654E+09	3,517101E+09	3,517095E+09	5,835315E+09	7,034197E+09	1,286951E+10
-965	2,917599E+09	2,917669E+09	3,517104E+09	3,517115E+09	5,835268E+09	7,034219E+09	1,286949E+10
-964	2,917745E+09	2,917733E+09	3,517145E+09	3,517138E+09	5,835478E+09	7,034283E+09	1,286976E+10
-963	2,917647E+09	2,917634E+09	3,517158E+09	3,517055E+09	5,835281E+09	7,034213E+09	1,286949E+10
-962	2,917633E+09	2,917678E+09	3,517150E+09	3,517126E+09	5,835311E+09	7,034276E+09	1,286959E+10
-961	2,917721E+09	2,917677E+09	3,517130E+09	3,517140E+09	5,835398E+09	7,034270E+09	1,286967E+10
-960	2,917558E+09	2,917588E+09	3,517100E+09	3,517113E+09	5,835146E+09	7,034213E+09	1,286936E+10
-959	2,917611E+09	2,917652E+09	3,517114E+09	3,517166E+09	5,835263E+09	7,034280E+09	1,286954E+10
-958	2,917631E+09	2,917596E+09	3,517099E+09	3,517073E+09	5,835227E+09	7,034172E+09	1,286940E+10
-957	2,917522E+09	2,917539E+09	3,517094E+09	3,517066E+09	5,835061E+09	7,034161E+09	1,286922E+10
-956	2,917638E+09	2,917606E+09	3,517114E+09	3,517124E+09	5,835244E+09	7,034237E+09	1,286948E+10
-955	2,917555E+09	2,917543E+09	3,517111E+09	3,517041E+09	5,835098E+09	7,034153E+09	1,286925E+10
-954	2,917484E+09	2,917584E+09	3,517106E+09	3,517107E+09	5,835068E+09	7,034213E+09	1,286928E+10
-953	2,917623E+09	2,917620E+09	3,517110E+09	3,517131E+09	5,835244E+09	7,034241E+09	1,286948E+10
-952	2,917526E+09	2,917537E+09	3,517118E+09	3,517070E+09	5,835063E+09	7,034188E+09	1,286925E+10
-951	2,917590E+09	2,917613E+09	3,517143E+09	3,517144E+09	5,835203E+09	7,034287E+09	1,286949E+10
-950	2,917703E+09	2,917644E+09	3,517111E+09	3,517100E+09	5,835346E+09	7,034211E+09	1,286956E+10
-949	2,917601E+09	2,917628E+09	3,517094E+09	3,517096E+09	5,835228E+09	7,034190E+09	1,286942E+10
-948	2,917720E+09	2,917740E+09	3,517111E+09	3,517175E+09	5,835461E+09	7,034286E+09	1,286975E+10
-947	2,917718E+09	2,917717E+09	3,517126E+09	3,517066E+09	5,835435E+09	7,034191E+09	1,286963E+10
-946	2,917640E+09	2,917720E+09	3,517142E+09	3,517100E+09	5,835360E+09	7,034242E+09	1,286960E+10
-945	2,917795E+09	2,917757E+09	3,517146E+09	3,517142E+09	5,835552E+09	7,034288E+09	1,286984E+10
-944	2,917697E+09	2,917674E+09	3,517144E+09	3,517078E+09	5,835371E+09	7,034222E+09	1,286959E+10
-943	2,917657E+09	2,917715E+09	3,517136E+09	3,517167E+09	5,835372E+09	7,034303E+09	1,286968E+10

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							
-942	2,917750E+09	2,917734E+09	3,517088E+09	3,517138E+09	5,835485E+09	7,034225E+09	1,286971E+10
-941	2,917613E+09	2,917636E+09	3,517090E+09	3,517080E+09	5,835250E+09	7,034171E+09	1,286942E+10
-940	2,917674E+09	2,917669E+09	3,517112E+09	3,517140E+09	5,835342E+09	7,034252E+09	1,286959E+10
-939	2,917699E+09	2,917634E+09	3,517114E+09	3,517032E+09	5,835333E+09	7,034146E+09	1,286948E+10
-938	2,917557E+09	2,917604E+09	3,517112E+09	3,517062E+09	5,835161E+09	7,034174E+09	1,286934E+10
-937	2,917661E+09	2,917661E+09	3,517099E+09	3,517138E+09	5,835322E+09	7,034237E+09	1,286956E+10
-936	2,917588E+09	2,917604E+09	3,517115E+09	3,517060E+09	5,835193E+09	7,034174E+09	1,286937E+10
-935	2,917520E+09	2,917618E+09	3,517132E+09	3,517132E+09	5,835138E+09	7,034263E+09	1,286940E+10
-934	2,917681E+09	2,917662E+09	3,517103E+09	3,517122E+09	5,835343E+09	7,034225E+09	1,286957E+10
-933	2,917611E+09	2,917588E+09	3,517116E+09	3,517063E+09	5,835199E+09	7,034179E+09	1,286938E+10
-932	2,917661E+09	2,917656E+09	3,517115E+09	3,517158E+09	5,835317E+09	7,034273E+09	1,286959E+10
-931	2,917762E+09	2,917723E+09	3,517093E+09	3,517088E+09	5,835485E+09	7,034181E+09	1,286967E+10
-930	2,917641E+09	2,917716E+09	3,517099E+09	3,517084E+09	5,835358E+09	7,034183E+09	1,286954E+10
-929	2,917769E+09	2,917788E+09	3,517108E+09	3,517152E+09	5,835557E+09	7,034261E+09	1,286982E+10
-928	2,917785E+09	2,917763E+09	3,517143E+09	3,517050E+09	5,835547E+09	7,034193E+09	1,286974E+10
-927	2,917689E+09	2,917748E+09	3,517165E+09	3,517118E+09	5,835438E+09	7,034282E+09	1,286972E+10
-926	2,917831E+09	2,917815E+09	3,517121E+09	3,517152E+09	5,835646E+09	7,034273E+09	1,286992E+10
-925	2,917743E+09	2,917739E+09	3,517126E+09	3,517089E+09	5,835482E+09	7,034214E+09	1,286970E+10
-924	2,917696E+09	2,917748E+09	3,517119E+09	3,517178E+09	5,835444E+09	7,034297E+09	1,286974E+10
-923	2,917807E+09	2,917775E+09	3,517097E+09	3,517102E+09	5,835583E+09	7,034199E+09	1,286978E+10
-922	2,917665E+09	2,917681E+09	3,517115E+09	3,517049E+09	5,835346E+09	7,034164E+09	1,286951E+10
-921	2,917723E+09	2,917697E+09	3,517108E+09	3,517126E+09	5,835420E+09	7,034234E+09	1,286965E+10
-920	2,917742E+09	2,917691E+09	3,517109E+09	3,517043E+09	5,835434E+09	7,034152E+09	1,286959E+10
-919	2,917568E+09	2,917654E+09	3,517116E+09	3,517104E+09	5,835222E+09	7,034220E+09	1,286944E+10
-918	2,917680E+09	2,917720E+09	3,517080E+09	3,517145E+09	5,835400E+09	7,034226E+09	1,286963E+10
-917	2,917648E+09	2,917644E+09	3,517115E+09	3,517049E+09	5,835292E+09	7,034164E+09	1,286946E+10
-916	2,917591E+09	2,917630E+09	3,517125E+09	3,517129E+09	5,835221E+09	7,034254E+09	1,286947E+10
-915	2,917767E+09	2,917708E+09	3,517095E+09	3,517096E+09	5,835475E+09	7,034192E+09	1,286967E+10
-914	2,917670E+09	2,917670E+09	3,517107E+09	3,517054E+09	5,835341E+09	7,034161E+09	1,286950E+10
-913	2,917710E+09	2,917734E+09	3,517086E+09	3,517156E+09	5,835444E+09	7,034242E+09	1,286969E+10
-912	2,917816E+09	2,917804E+09	3,517097E+09	3,517080E+09	5,835620E+09	7,034177E+09	1,286980E+10
-911	2,917683E+09	2,917767E+09	3,517139E+09	3,517091E+09	5,835449E+09	7,034230E+09	1,286968E+10
-910	2,917815E+09	2,917837E+09	3,517121E+09	3,517139E+09	5,835652E+09	7,034260E+09	1,286991E+10
-909	2,917851E+09	2,917806E+09	3,517154E+09	3,517059E+09	5,835657E+09	7,034212E+09	1,286987E+10
-908	2,917737E+09	2,917778E+09	3,517145E+09	3,517154E+09	5,835515E+09	7,034299E+09	1,286981E+10
-907	2,917879E+09	2,917868E+09	3,517097E+09	3,517152E+09	5,835747E+09	7,034250E+09	1,287000E+10
-906	2,917787E+09	2,917798E+09	3,517117E+09	3,517075E+09	5,835585E+09	7,034192E+09	1,286978E+10
-905	2,917755E+09	2,917775E+09	3,517098E+09	3,517147E+09	5,835530E+09	7,034245E+09	1,286978E+10
-904	2,917875E+09	2,917815E+09	3,517101E+09	3,517072E+09	5,835690E+09	7,034173E+09	1,286986E+10
-903	2,917708E+09	2,917722E+09	3,517133E+09	3,517057E+09	5,835430E+09	7,034190E+09	1,286962E+10
-902	2,917739E+09	2,917765E+09	3,517090E+09	3,517126E+09	5,835503E+09	7,034216E+09	1,286972E+10
-901	2,917771E+09	2,917761E+09	3,517106E+09	3,517059E+09	5,835532E+09	7,034166E+09	1,286970E+10
-900	2,917599E+09	2,917682E+09	3,517115E+09	3,517124E+09	5,835281E+09	7,034240E+09	1,286952E+10
-899	2,917734E+09	2,917750E+09	3,517092E+09	3,517125E+09	5,835485E+09	7,034217E+09	1,286970E+10
-898	2,917715E+09	2,917685E+09	3,517130E+09	3,517034E+09	5,835400E+09	7,034164E+09	1,286956E+10
-897	2,917664E+09	2,917663E+09	3,517097E+09	3,517124E+09	5,835326E+09	7,034222E+09	1,286955E+10
-896	2,917833E+09	2,917780E+09	3,517073E+09	3,517100E+09	5,835614E+09	7,034173E+09	1,286979E+10
-895	2,917710E+09	2,917746E+09	3,517102E+09	3,517072E+09	5,835456E+09	7,034174E+09	1,286963E+10
-894	2,917745E+09	2,917812E+09	3,517077E+09	3,517132E+09	5,835557E+09	7,034209E+09	1,286977E+10

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	2,917884E+09	2,917863E+09	3,517117E+09	3,517060E+09	5,835747E+09	7,034177E+09	1,286992E+10
-892	2,917747E+09	2,917788E+09	3,517156E+09	3,517097E+09	5,835536E+09	7,034253E+09	1,286979E+10
-891	2,917880E+09	2,917883E+09	3,517128E+09	3,517135E+09	5,835763E+09	7,034263E+09	1,287003E+10
-890	2,917898E+09	2,917875E+09	3,517149E+09	3,517073E+09	5,835773E+09	7,034222E+09	1,286999E+10
-889	2,917781E+09	2,917829E+09	3,517110E+09	3,517167E+09	5,835611E+09	7,034276E+09	1,286989E+10
-888	2,917936E+09	2,917923E+09	3,517090E+09	3,517144E+09	5,835859E+09	7,034234E+09	1,287009E+10
-887	2,917831E+09	2,917836E+09	3,517135E+09	3,517070E+09	5,835668E+09	7,034205E+09	1,286987E+10
-886	2,917799E+09	2,917821E+09	3,517096E+09	3,517116E+09	5,835621E+09	7,034212E+09	1,286983E+10
-885	2,917929E+09	2,917863E+09	3,517100E+09	3,517068E+09	5,835792E+09	7,034168E+09	1,286996E+10
-884	2,917729E+09	2,917758E+09	3,517122E+09	3,517087E+09	5,835488E+09	7,034209E+09	1,286970E+10
-883	2,917762E+09	2,917818E+09	3,517081E+09	3,517126E+09	5,835580E+09	7,034207E+09	1,286979E+10
-882	2,917803E+09	2,917804E+09	3,517115E+09	3,517051E+09	5,835607E+09	7,034166E+09	1,286977E+10
-881	2,917660E+09	2,917695E+09	3,517100E+09	3,517107E+09	5,835355E+09	7,034207E+09	1,286956E+10
-880	2,917818E+09	2,917778E+09	3,517088E+09	3,517106E+09	5,835596E+09	7,034194E+09	1,286979E+10
-879	2,917776E+09	2,917736E+09	3,517126E+09	3,517046E+09	5,835512E+09	7,034171E+09	1,286968E+10
-878	2,917706E+09	2,917750E+09	3,517065E+09	3,517114E+09	5,835456E+09	7,034179E+09	1,286964E+10
-877	2,917887E+09	2,917871E+09	3,517067E+09	3,517099E+09	5,835758E+09	7,034166E+09	1,286992E+10
-876	2,917755E+09	2,917803E+09	3,517120E+09	3,517080E+09	5,835557E+09	7,034200E+09	1,286976E+10
-875	2,917803E+09	2,917866E+09	3,517108E+09	3,517108E+09	5,835670E+09	7,034217E+09	1,286989E+10
-874	2,917946E+09	2,917914E+09	3,517151E+09	3,517059E+09	5,835860E+09	7,034210E+09	1,287007E+10
-873	2,917811E+09	2,917822E+09	3,517138E+09	3,517119E+09	5,835633E+09	7,034257E+09	1,286989E+10
-872	2,917936E+09	2,917940E+09	3,517107E+09	3,517160E+09	5,835876E+09	7,034267E+09	1,287014E+10
-871	2,917937E+09	2,917935E+09	3,517133E+09	3,517103E+09	5,835872E+09	7,034236E+09	1,287011E+10
-870	2,917826E+09	2,917884E+09	3,517079E+09	3,517136E+09	5,835709E+09	7,034214E+09	1,286992E+10
-869	2,918007E+09	2,917969E+09	3,517087E+09	3,517111E+09	5,835976E+09	7,034197E+09	1,287017E+10
-868	2,917889E+09	2,917862E+09	3,517138E+09	3,517056E+09	5,835751E+09	7,034194E+09	1,286995E+10
-867	2,917840E+09	2,917874E+09	3,517099E+09	3,517092E+09	5,835714E+09	7,034191E+09	1,286991E+10
-866	2,917949E+09	2,917933E+09	3,517110E+09	3,517072E+09	5,835882E+09	7,034182E+09	1,287006E+10
-865	2,917754E+09	2,917795E+09	3,517108E+09	3,517101E+09	5,835548E+09	7,034210E+09	1,286976E+10
-864	2,917803E+09	2,917849E+09	3,517094E+09	3,517126E+09	5,835652E+09	7,034220E+09	1,286987E+10
-863	2,917848E+09	2,917827E+09	3,517133E+09	3,517062E+09	5,835675E+09	7,034195E+09	1,286987E+10
-862	2,917716E+09	2,917731E+09	3,517081E+09	3,517089E+09	5,835447E+09	7,034170E+09	1,286962E+10
-861	2,917890E+09	2,917837E+09	3,517065E+09	3,517111E+09	5,835728E+09	7,034176E+09	1,286990E+10
-860	2,917820E+09	2,917800E+09	3,517101E+09	3,517067E+09	5,835620E+09	7,034168E+09	1,286979E+10
-859	2,917751E+09	2,917832E+09	3,517060E+09	3,517095E+09	5,835583E+09	7,034155E+09	1,286974E+10
-858	2,917936E+09	2,917941E+09	3,517093E+09	3,517076E+09	5,835877E+09	7,034169E+09	1,287005E+10
-857	2,917820E+09	2,917836E+09	3,517131E+09	3,517069E+09	5,835656E+09	7,034200E+09	1,286986E+10
-856	2,917879E+09	2,917906E+09	3,517127E+09	3,517109E+09	5,835785E+09	7,034236E+09	1,287002E+10
-855	2,917993E+09	2,917966E+09	3,517153E+09	3,517095E+09	5,835960E+09	7,034248E+09	1,287021E+10
-854	2,917852E+09	2,917895E+09	3,517101E+09	3,517128E+09	5,835748E+09	7,034228E+09	1,286998E+10
-853	2,917999E+09	2,918006E+09	3,517081E+09	3,517164E+09	5,836004E+09	7,034244E+09	1,287025E+10
-852	2,917987E+09	2,917974E+09	3,517130E+09	3,517097E+09	5,835961E+09	7,034227E+09	1,287019E+10
-851	2,917888E+09	2,917933E+09	3,517091E+09	3,517089E+09	5,835821E+09	7,034180E+09	1,287000E+10
-850	2,918060E+09	2,918015E+09	3,517112E+09	3,517083E+09	5,836075E+09	7,034195E+09	1,287027E+10
-849	2,917929E+09	2,917898E+09	3,517127E+09	3,517064E+09	5,835827E+09	7,034191E+09	1,287002E+10
-848	2,917868E+09	2,917923E+09	3,517096E+09	3,517108E+09	5,835791E+09	7,034204E+09	1,287000E+10
-847	2,917959E+09	2,917975E+09	3,517113E+09	3,517101E+09	5,835934E+09	7,034215E+09	1,287015E+10
-846	2,917787E+09	2,917826E+09	3,517090E+09	3,517085E+09	5,835613E+09	7,034175E+09	1,286979E+10
-845	2,917877E+09	2,917873E+09	3,517084E+09	3,517114E+09	5,835749E+09	7,034198E+09	1,286995E+10

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	2,917913E+09	2,917852E+09	3,517123E+09	3,517066E+09	5,835765E+09	7,034189E+09	1,286995E+10
-843	2,917775E+09	2,917804E+09	3,517063E+09	3,517067E+09	5,835579E+09	7,034130E+09	1,286971E+10
-842	2,917932E+09	2,917931E+09	3,517067E+09	3,517102E+09	5,835863E+09	7,034169E+09	1,287003E+10
-841	2,917865E+09	2,917867E+09	3,517097E+09	3,517066E+09	5,835732E+09	7,034163E+09	1,286990E+10
-840	2,917804E+09	2,917886E+09	3,517096E+09	3,517084E+09	5,835690E+09	7,034181E+09	1,286987E+10
-839	2,917982E+09	2,917986E+09	3,517135E+09	3,517092E+09	5,835968E+09	7,034226E+09	1,287019E+10
-838	2,917878E+09	2,917874E+09	3,517125E+09	3,517070E+09	5,835752E+09	7,034195E+09	1,286995E+10
-837	2,917946E+09	2,917958E+09	3,517103E+09	3,517139E+09	5,835905E+09	7,034242E+09	1,287015E+10
-836	2,918040E+09	2,918020E+09	3,517120E+09	3,517128E+09	5,836060E+09	7,034249E+09	1,287031E+10
-835	2,917909E+09	2,917963E+09	3,517076E+09	3,517101E+09	5,835872E+09	7,034176E+09	1,287005E+10
-834	2,918063E+09	2,918065E+09	3,517090E+09	3,517122E+09	5,836128E+09	7,034212E+09	1,287034E+10
-833	2,918059E+09	2,918006E+09	3,517125E+09	3,517064E+09	5,836065E+09	7,034189E+09	1,287025E+10
-832	2,917951E+09	2,917974E+09	3,517111E+09	3,517069E+09	5,835926E+09	7,034180E+09	1,287011E+10
-831	2,918078E+09	2,918074E+09	3,517125E+09	3,517107E+09	5,836152E+09	7,034232E+09	1,287038E+10
-830	2,917940E+09	2,917958E+09	3,517111E+09	3,517073E+09	5,835897E+09	7,034184E+09	1,287008E+10
-829	2,917902E+09	2,917968E+09	3,517090E+09	3,517129E+09	5,835870E+09	7,034218E+09	1,287009E+10
-828	2,917993E+09	2,917992E+09	3,517118E+09	3,517117E+09	5,835985E+09	7,034235E+09	1,287022E+10
-827	2,917849E+09	2,917858E+09	3,517090E+09	3,517057E+09	5,835707E+09	7,034147E+09	1,286985E+10
-826	2,917943E+09	2,917917E+09	3,517087E+09	3,517098E+09	5,835860E+09	7,034184E+09	1,287004E+10
-825	2,917967E+09	2,917903E+09	3,517091E+09	3,517073E+09	5,835871E+09	7,034165E+09	1,287004E+10
-824	2,917825E+09	2,917875E+09	3,517060E+09	3,517066E+09	5,835700E+09	7,034126E+09	1,286983E+10
-823	2,917957E+09	2,917995E+09	3,517082E+09	3,517105E+09	5,835951E+09	7,034188E+09	1,287014E+10
-822	2,917909E+09	2,917916E+09	3,517103E+09	3,517040E+09	5,835825E+09	7,034143E+09	1,286997E+10
-821	2,917881E+09	2,917922E+09	3,517102E+09	3,517081E+09	5,835803E+09	7,034183E+09	1,286999E+10
-820	2,918036E+09	2,918017E+09	3,517133E+09	3,517115E+09	5,836054E+09	7,034249E+09	1,287030E+10
-819	2,917938E+09	2,917947E+09	3,517104E+09	3,517069E+09	5,835885E+09	7,034173E+09	1,287006E+10
-818	2,918004E+09	2,918036E+09	3,517092E+09	3,517139E+09	5,836040E+09	7,034230E+09	1,287027E+10
-817	2,918101E+09	2,918076E+09	3,517102E+09	3,517122E+09	5,836177E+09	7,034224E+09	1,287040E+10
-816	2,917982E+09	2,918015E+09	3,517096E+09	3,517070E+09	5,835997E+09	7,034166E+09	1,287016E+10
-815	2,918110E+09	2,918114E+09	3,517120E+09	3,517112E+09	5,836225E+09	7,034232E+09	1,287046E+10
-814	2,918103E+09	2,918055E+09	3,517121E+09	3,517054E+09	5,836158E+09	7,034175E+09	1,287033E+10
-813	2,917991E+09	2,918031E+09	3,517096E+09	3,517099E+09	5,836022E+09	7,034194E+09	1,287022E+10
-812	2,918088E+09	2,918119E+09	3,517113E+09	3,517148E+09	5,836206E+09	7,034261E+09	1,287047E+10
-811	2,917974E+09	2,918002E+09	3,517101E+09	3,517061E+09	5,835976E+09	7,034162E+09	1,287014E+10
-810	2,917957E+09	2,917996E+09	3,517100E+09	3,517104E+09	5,835954E+09	7,034204E+09	1,287016E+10
-809	2,918065E+09	2,918005E+09	3,517103E+09	3,517100E+09	5,836070E+09	7,034204E+09	1,287027E+10
-808	2,917921E+09	2,917897E+09	3,517090E+09	3,517037E+09	5,835817E+09	7,034127E+09	1,286994E+10
-807	2,917975E+09	2,917990E+09	3,517084E+09	3,517107E+09	5,835965E+09	7,034191E+09	1,287016E+10
-806	2,917997E+09	2,917977E+09	3,517070E+09	3,517060E+09	5,835974E+09	7,034130E+09	1,287010E+10
-805	2,917869E+09	2,917937E+09	3,517065E+09	3,517070E+09	5,835806E+09	7,034135E+09	1,286994E+10
-804	2,917991E+09	2,918032E+09	3,517109E+09	3,517115E+09	5,836023E+09	7,034223E+09	1,287025E+10
-803	2,917971E+09	2,917958E+09	3,517118E+09	3,517024E+09	5,835928E+09	7,034142E+09	1,287007E+10
-802	2,917948E+09	2,917970E+09	3,517111E+09	3,517088E+09	5,835918E+09	7,034199E+09	1,287012E+10
-801	2,918097E+09	2,918067E+09	3,517096E+09	3,517142E+09	5,836164E+09	7,034238E+09	1,287040E+10
-800	2,918004E+09	2,918013E+09	3,517087E+09	3,517071E+09	5,836017E+09	7,034158E+09	1,287017E+10
-799	2,918053E+09	2,918105E+09	3,517090E+09	3,517133E+09	5,836157E+09	7,034223E+09	1,287038E+10
-798	2,918164E+09	2,918129E+09	3,517093E+09	3,517081E+09	5,836293E+09	7,034174E+09	1,287047E+10
-797	2,918060E+09	2,918066E+09	3,517099E+09	3,517057E+09	5,836127E+09	7,034156E+09	1,287028E+10
-796	2,918145E+09	2,918163E+09	3,517129E+09	3,517126E+09	5,836308E+09	7,034255E+09	1,287056E+10

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							
-795	2,918134E+09	2,918129E+09	3,517116E+09	3,517056E+09	5,836263E+09	7,034172E+09	1,287043E+10
-794	2,918022E+09	2,918090E+09	3,517105E+09	3,517107E+09	5,836112E+09	7,034212E+09	1,287032E+10
-793	2,918124E+09	2,918143E+09	3,517107E+09	3,517157E+09	5,836266E+09	7,034264E+09	1,287053E+10
-792	2,918040E+09	2,918021E+09	3,517119E+09	3,517045E+09	5,836061E+09	7,034164E+09	1,287023E+10
-791	2,918009E+09	2,918020E+09	3,517106E+09	3,517099E+09	5,836029E+09	7,034205E+09	1,287023E+10
-790	2,918115E+09	2,918043E+09	3,517073E+09	3,517086E+09	5,836158E+09	7,034160E+09	1,287032E+10
-789	2,917973E+09	2,917964E+09	3,517054E+09	3,517049E+09	5,835937E+09	7,034103E+09	1,287004E+10
-788	2,917990E+09	2,918050E+09	3,517073E+09	3,517118E+09	5,836039E+09	7,034191E+09	1,287023E+10
-787	2,918037E+09	2,918042E+09	3,517073E+09	3,517032E+09	5,836078E+09	7,034105E+09	1,287018E+10
-786	2,917931E+09	2,917978E+09	3,517093E+09	3,517047E+09	5,835908E+09	7,034139E+09	1,287005E+10
-785	2,918055E+09	2,918056E+09	3,517108E+09	3,517117E+09	5,836111E+09	7,034226E+09	1,287034E+10
-784	2,918045E+09	2,918005E+09	3,517121E+09	3,517030E+09	5,836050E+09	7,034152E+09	1,287020E+10
-783	2,917991E+09	2,918046E+09	3,517100E+09	3,517113E+09	5,836037E+09	7,034213E+09	1,287025E+10
-782	2,918148E+09	2,918140E+09	3,517067E+09	3,517137E+09	5,836288E+09	7,034204E+09	1,287049E+10
-781	2,918076E+09	2,918084E+09	3,517078E+09	3,517066E+09	5,836160E+09	7,034144E+09	1,287030E+10
-780	2,918105E+09	2,918156E+09	3,517110E+09	3,517124E+09	5,836261E+09	7,034235E+09	1,287050E+10
-779	2,918230E+09	2,918188E+09	3,517106E+09	3,517053E+09	5,836418E+09	7,034160E+09	1,287058E+10
-778	2,918114E+09	2,918125E+09	3,517117E+09	3,517061E+09	5,836239E+09	7,034178E+09	1,287042E+10
-777	2,918176E+09	2,918211E+09	3,517112E+09	3,517155E+09	5,836388E+09	7,034267E+09	1,287065E+10
-776	2,918175E+09	2,918168E+09	3,517118E+09	3,517063E+09	5,836344E+09	7,034181E+09	1,287052E+10
-775	2,918056E+09	2,918123E+09	3,517111E+09	3,517109E+09	5,836180E+09	7,034219E+09	1,287040E+10
-774	2,918183E+09	2,918155E+09	3,517085E+09	3,517124E+09	5,836338E+09	7,034209E+09	1,287055E+10
-773	2,918115E+09	2,918051E+09	3,517092E+09	3,517035E+09	5,836166E+09	7,034127E+09	1,287029E+10
-772	2,918046E+09	2,918071E+09	3,517088E+09	3,517105E+09	5,836117E+09	7,034193E+09	1,287031E+10
-771	2,918148E+09	2,918125E+09	3,517051E+09	3,517069E+09	5,836273E+09	7,034120E+09	1,287039E+10
-770	2,918008E+09	2,918038E+09	3,517069E+09	3,517039E+09	5,836046E+09	7,034108E+09	1,287015E+10
-769	2,918022E+09	2,918091E+09	3,517085E+09	3,517115E+09	5,836113E+09	7,034200E+09	1,287031E+10
-768	2,918097E+09	2,918071E+09	3,517112E+09	3,517020E+09	5,836168E+09	7,034132E+09	1,287030E+10
-767	2,917981E+09	2,918013E+09	3,517114E+09	3,517062E+09	5,835994E+09	7,034176E+09	1,287017E+10
-766	2,918109E+09	2,918097E+09	3,517080E+09	3,517130E+09	5,836206E+09	7,034210E+09	1,287042E+10
-765	2,918110E+09	2,918077E+09	3,517078E+09	3,517063E+09	5,836187E+09	7,034140E+09	1,287033E+10
-764	2,918035E+09	2,918112E+09	3,517079E+09	3,517125E+09	5,836148E+09	7,034204E+09	1,287035E+10
-763	2,918216E+09	2,918211E+09	3,517061E+09	3,517096E+09	5,836427E+09	7,034157E+09	1,287058E+10
-762	2,918161E+09	2,918143E+09	3,517102E+09	3,517027E+09	5,836304E+09	7,034129E+09	1,287043E+10
-761	2,918168E+09	2,918198E+09	3,517117E+09	3,517114E+09	5,836367E+09	7,034230E+09	1,287060E+10
-760	2,918290E+09	2,918246E+09	3,517125E+09	3,517056E+09	5,836536E+09	7,034181E+09	1,287072E+10
-759	2,918139E+09	2,918190E+09	3,517122E+09	3,517087E+09	5,836329E+09	7,034209E+09	1,287054E+10
-758	2,918203E+09	2,918252E+09	3,517095E+09	3,517160E+09	5,836455E+09	7,034255E+09	1,287071E+10
-757	2,918232E+09	2,918207E+09	3,517103E+09	3,517072E+09	5,836439E+09	7,034175E+09	1,287061E+10
-756	2,918101E+09	2,918144E+09	3,517110E+09	3,517107E+09	5,836245E+09	7,034217E+09	1,287046E+10
-755	2,918244E+09	2,918196E+09	3,517069E+09	3,517099E+09	5,836440E+09	7,034168E+09	1,287061E+10
-754	2,918170E+09	2,918112E+09	3,517081E+09	3,517027E+09	5,836282E+09	7,034107E+09	1,287039E+10
-753	2,918072E+09	2,918130E+09	3,517063E+09	3,517110E+09	5,836202E+09	7,034173E+09	1,287038E+10
-752	2,918188E+09	2,918179E+09	3,517065E+09	3,517053E+09	5,836367E+09	7,034118E+09	1,287048E+10
-751	2,918039E+09	2,918082E+09	3,517098E+09	3,517031E+09	5,836121E+09	7,034129E+09	1,287025E+10
-750	2,918072E+09	2,918110E+09	3,517090E+09	3,517097E+09	5,836183E+09	7,034188E+09	1,287037E+10
-749	2,918167E+09	2,918109E+09	3,517100E+09	3,517038E+09	5,836276E+09	7,034138E+09	1,287041E+10
-748	2,918023E+09	2,918068E+09	3,517099E+09	3,517093E+09	5,836092E+09	7,034192E+09	1,287028E+10
-747	2,918165E+09	2,918176E+09	3,517051E+09	3,517128E+09	5,836341E+09	7,034179E+09	1,287052E+10

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	2,918176E+09	2,918157E+09	3,517079E+09	3,517052E+09	5,836333E+09	7,034132E+09	1,287046E+10
-745	2,918100E+09	2,918169E+09	3,517084E+09	3,517110E+09	5,836269E+09	7,034194E+09	1,287046E+10
-744	2,918297E+09	2,918256E+09	3,517095E+09	3,517065E+09	5,836553E+09	7,034160E+09	1,287071E+10
-743	2,918214E+09	2,918200E+09	3,517130E+09	3,517031E+09	5,836414E+09	7,034161E+09	1,287058E+10
-742	2,918208E+09	2,918249E+09	3,517099E+09	3,517125E+09	5,836457E+09	7,034223E+09	1,287068E+10
-741	2,918328E+09	2,918310E+09	3,517093E+09	3,517094E+09	5,836638E+09	7,034187E+09	1,287082E+10
-740	2,918164E+09	2,918234E+09	3,517111E+09	3,517110E+09	5,836398E+09	7,034221E+09	1,287062E+10
-739	2,918259E+09	2,918286E+09	3,517081E+09	3,517130E+09	5,836546E+09	7,034211E+09	1,287076E+10
-738	2,918309E+09	2,918241E+09	3,517103E+09	3,517043E+09	5,836550E+09	7,034146E+09	1,287070E+10
-737	2,918160E+09	2,918178E+09	3,517088E+09	3,517093E+09	5,836338E+09	7,034181E+09	1,287052E+10
-736	2,918296E+09	2,918254E+09	3,517068E+09	3,517082E+09	5,836550E+09	7,034150E+09	1,287070E+10
-735	2,918188E+09	2,918188E+09	3,517091E+09	3,517029E+09	5,836376E+09	7,034119E+09	1,287050E+10
-734	2,918092E+09	2,918176E+09	3,517067E+09	3,517098E+09	5,836268E+09	7,034165E+09	1,287043E+10
-733	2,918231E+09	2,918221E+09	3,517077E+09	3,517061E+09	5,836452E+09	7,034138E+09	1,287059E+10
-732	2,918078E+09	2,918103E+09	3,517120E+09	3,517047E+09	5,836181E+09	7,034168E+09	1,287035E+10
-731	2,918129E+09	2,918145E+09	3,517083E+09	3,517100E+09	5,836274E+09	7,034183E+09	1,287046E+10
-730	2,918231E+09	2,918171E+09	3,517082E+09	3,517056E+09	5,836402E+09	7,034138E+09	1,287054E+10
-729	2,918072E+09	2,918130E+09	3,517061E+09	3,517106E+09	5,836202E+09	7,034167E+09	1,287037E+10
-728	2,918238E+09	2,918238E+09	3,517051E+09	3,517104E+09	5,836476E+09	7,034155E+09	1,287063E+10
-727	2,918242E+09	2,918220E+09	3,517095E+09	3,517021E+09	5,836462E+09	7,034116E+09	1,287058E+10
-726	2,918167E+09	2,918212E+09	3,517086E+09	3,517076E+09	5,836379E+09	7,034162E+09	1,287054E+10
-725	2,918362E+09	2,918323E+09	3,517089E+09	3,517076E+09	5,836684E+09	7,034165E+09	1,287085E+10
-724	2,918241E+09	2,918267E+09	3,517132E+09	3,517065E+09	5,836508E+09	7,034197E+09	1,287070E+10
-723	2,918240E+09	2,918320E+09	3,517088E+09	3,517134E+09	5,836560E+09	7,034222E+09	1,287078E+10
-722	2,918379E+09	2,918367E+09	3,517098E+09	3,517096E+09	5,836746E+09	7,034194E+09	1,287094E+10
-721	2,918220E+09	2,918261E+09	3,517107E+09	3,517103E+09	5,836481E+09	7,034210E+09	1,287069E+10
-720	2,918340E+09	2,918308E+09	3,517094E+09	3,517103E+09	5,836648E+09	7,034196E+09	1,287084E+10
-719	2,918359E+09	2,918289E+09	3,517108E+09	3,517034E+09	5,836648E+09	7,034142E+09	1,287079E+10
-718	2,918194E+09	2,918231E+09	3,517061E+09	3,517088E+09	5,836425E+09	7,034149E+09	1,287057E+10
-717	2,918325E+09	2,918321E+09	3,517047E+09	3,517095E+09	5,836646E+09	7,034141E+09	1,287079E+10
-716	2,918203E+09	2,918233E+09	3,517106E+09	3,517036E+09	5,836436E+09	7,034143E+09	1,287058E+10
-715	2,918135E+09	2,918206E+09	3,517078E+09	3,517075E+09	5,836341E+09	7,034153E+09	1,287049E+10
-714	2,918292E+09	2,918250E+09	3,517091E+09	3,517057E+09	5,836542E+09	7,034147E+09	1,287069E+10
-713	2,918134E+09	2,918137E+09	3,517102E+09	3,517064E+09	5,836270E+09	7,034167E+09	1,287044E+10
-712	2,918195E+09	2,918196E+09	3,517068E+09	3,517102E+09	5,836391E+09	7,034170E+09	1,287056E+10
-711	2,918273E+09	2,918250E+09	3,517076E+09	3,517058E+09	5,836523E+09	7,034134E+09	1,287066E+10
-710	2,918128E+09	2,918190E+09	3,517048E+09	3,517080E+09	5,836318E+09	7,034128E+09	1,287045E+10
-709	2,918305E+09	2,918300E+09	3,517055E+09	3,517089E+09	5,836605E+09	7,034144E+09	1,287075E+10
-708	2,918293E+09	2,918272E+09	3,517123E+09	3,517024E+09	5,836565E+09	7,034146E+09	1,287071E+10
-707	2,918220E+09	2,918270E+09	3,517088E+09	3,517076E+09	5,836490E+09	7,034164E+09	1,287065E+10
-706	2,918406E+09	2,918397E+09	3,517084E+09	3,517100E+09	5,836803E+09	7,034184E+09	1,287099E+10
-705	2,918279E+09	2,918320E+09	3,517111E+09	3,517090E+09	5,836599E+09	7,034200E+09	1,287080E+10
-704	2,918308E+09	2,918352E+09	3,517094E+09	3,517118E+09	5,836660E+09	7,034212E+09	1,287087E+10
-703	2,918443E+09	2,918405E+09	3,517110E+09	3,517072E+09	5,836848E+09	7,034182E+09	1,287103E+10
-702	2,918292E+09	2,918288E+09	3,517090E+09	3,517070E+09	5,836579E+09	7,034160E+09	1,287074E+10
-701	2,918401E+09	2,918367E+09	3,517069E+09	3,517102E+09	5,836769E+09	7,034172E+09	1,287094E+10
-700	2,918381E+09	2,918359E+09	3,517103E+09	3,517049E+09	5,836739E+09	7,034153E+09	1,287089E+10
-699	2,918214E+09	2,918298E+09	3,517061E+09	3,517081E+09	5,836512E+09	7,034142E+09	1,287065E+10
-698	2,918356E+09	2,918377E+09	3,517069E+09	3,517092E+09	5,836733E+09	7,034161E+09	1,287089E+10

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	2,918241E+09	2,918251E+09	3,517121E+09	3,517040E+09	5,836492E+09	7,034161E+09	1,287065E+10
-696	2,918202E+09	2,918217E+09	3,517098E+09	3,517070E+09	5,836419E+09	7,034168E+09	1,287059E+10
-695	2,918340E+09	2,918292E+09	3,517085E+09	3,517068E+09	5,836632E+09	7,034153E+09	1,287078E+10
-694	2,918178E+09	2,918187E+09	3,517055E+09	3,517070E+09	5,836365E+09	7,034124E+09	1,287049E+10
-693	2,918250E+09	2,918270E+09	3,517029E+09	3,517107E+09	5,836519E+09	7,034136E+09	1,287066E+10
-692	2,918320E+09	2,918309E+09	3,517079E+09	3,517045E+09	5,836629E+09	7,034124E+09	1,287075E+10
-691	2,918195E+09	2,918245E+09	3,517058E+09	3,517038E+09	5,836440E+09	7,034097E+09	1,287054E+10
-690	2,918375E+09	2,918362E+09	3,517074E+09	3,517071E+09	5,836737E+09	7,034145E+09	1,287088E+10
-689	2,918342E+09	2,918331E+09	3,517124E+09	3,517040E+09	5,836672E+09	7,034164E+09	1,287084E+10
-688	2,918276E+09	2,918331E+09	3,517096E+09	3,517089E+09	5,836607E+09	7,034185E+09	1,287079E+10
-687	2,918442E+09	2,918465E+09	3,517096E+09	3,517113E+09	5,836907E+09	7,034209E+09	1,287112E+10
-686	2,918337E+09	2,918359E+09	3,517102E+09	3,517083E+09	5,836696E+09	7,034184E+09	1,287088E+10
-685	2,918385E+09	2,918392E+09	3,517085E+09	3,517113E+09	5,836777E+09	7,034198E+09	1,287098E+10
-684	2,918500E+09	2,918443E+09	3,517118E+09	3,517074E+09	5,836943E+09	7,034192E+09	1,287113E+10
-683	2,918343E+09	2,918346E+09	3,517071E+09	3,517060E+09	5,836690E+09	7,034131E+09	1,287082E+10
-682	2,918433E+09	2,918445E+09	3,517054E+09	3,517108E+09	5,836877E+09	7,034162E+09	1,287104E+10
-681	2,918402E+09	2,918413E+09	3,517094E+09	3,517059E+09	5,836815E+09	7,034153E+09	1,287097E+10
-680	2,918265E+09	2,918320E+09	3,517080E+09	3,517058E+09	5,836585E+09	7,034138E+09	1,287072E+10
-679	2,918395E+09	2,918403E+09	3,517093E+09	3,517074E+09	5,836798E+09	7,034167E+09	1,287096E+10
-678	2,918298E+09	2,918267E+09	3,517104E+09	3,517031E+09	5,836565E+09	7,034135E+09	1,287070E+10
-677	2,918257E+09	2,918264E+09	3,517064E+09	3,517086E+09	5,836521E+09	7,034150E+09	1,287067E+10
-676	2,918371E+09	2,918355E+09	3,517071E+09	3,517088E+09	5,836726E+09	7,034159E+09	1,287088E+10
-675	2,918225E+09	2,918256E+09	3,517038E+09	3,517050E+09	5,836481E+09	7,034088E+09	1,287057E+10
-674	2,918308E+09	2,918341E+09	3,517039E+09	3,517083E+09	5,836649E+09	7,034122E+09	1,287077E+10
-673	2,918381E+09	2,918355E+09	3,517096E+09	3,517032E+09	5,836736E+09	7,034128E+09	1,287086E+10
-672	2,918272E+09	2,918283E+09	3,517090E+09	3,517026E+09	5,836555E+09	7,034116E+09	1,287067E+10
-671	2,918414E+09	2,918431E+09	3,517090E+09	3,517087E+09	5,836846E+09	7,034176E+09	1,287102E+10
-670	2,918385E+09	2,918389E+09	3,517098E+09	3,517063E+09	5,836774E+09	7,034162E+09	1,287094E+10
-669	2,918333E+09	2,918392E+09	3,517074E+09	3,517110E+09	5,836724E+09	7,034184E+09	1,287091E+10
-668	2,918498E+09	2,918506E+09	3,517101E+09	3,517115E+09	5,837004E+09	7,034216E+09	1,287122E+10
-667	2,918414E+09	2,918402E+09	3,517091E+09	3,517052E+09	5,836816E+09	7,034142E+09	1,287096E+10
-666	2,918462E+09	2,918456E+09	3,517073E+09	3,517098E+09	5,836918E+09	7,034171E+09	1,287109E+10
-665	2,918546E+09	2,918505E+09	3,517097E+09	3,517078E+09	5,837050E+09	7,034175E+09	1,287123E+10
-664	2,918387E+09	2,918411E+09	3,517077E+09	3,517052E+09	5,836798E+09	7,034129E+09	1,287093E+10
-663	2,918448E+09	2,918510E+09	3,517078E+09	3,517096E+09	5,836958E+09	7,034174E+09	1,287113E+10
-662	2,918435E+09	2,918437E+09	3,517101E+09	3,517047E+09	5,836872E+09	7,034148E+09	1,287102E+10
-661	2,918319E+09	2,918340E+09	3,517087E+09	3,517062E+09	5,836659E+09	7,034149E+09	1,287081E+10
-660	2,918434E+09	2,918419E+09	3,517100E+09	3,517094E+09	5,836853E+09	7,034194E+09	1,287105E+10
-659	2,918343E+09	2,918311E+09	3,517070E+09	3,517038E+09	5,836654E+09	7,034107E+09	1,287076E+10
-658	2,918304E+09	2,918338E+09	3,517025E+09	3,517093E+09	5,836642E+09	7,034117E+09	1,287076E+10
-657	2,918415E+09	2,918410E+09	3,517051E+09	3,517082E+09	5,836825E+09	7,034133E+09	1,287096E+10
-656	2,918301E+09	2,918301E+09	3,517056E+09	3,517009E+09	5,836602E+09	7,034065E+09	1,287067E+10
-655	2,918364E+09	2,918398E+09	3,517072E+09	3,517047E+09	5,836762E+09	7,034119E+09	1,287088E+10
-654	2,918442E+09	2,918403E+09	3,517095E+09	3,517028E+09	5,836845E+09	7,034123E+09	1,287097E+10
-653	2,918327E+09	2,918352E+09	3,517081E+09	3,517055E+09	5,836679E+09	7,034136E+09	1,287081E+10
-652	2,918441E+09	2,918500E+09	3,517096E+09	3,517126E+09	5,836941E+09	7,034222E+09	1,287116E+10
-651	2,918436E+09	2,918452E+09	3,517089E+09	3,517068E+09	5,836888E+09	7,034157E+09	1,287104E+10
-650	2,918404E+09	2,918451E+09	3,517069E+09	3,517104E+09	5,836854E+09	7,034173E+09	1,287103E+10
-649	2,918572E+09	2,918542E+09	3,517100E+09	3,517109E+09	5,837114E+09	7,034209E+09	1,287132E+10

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	2,918501E+09	2,918442E+09	3,517091E+09	3,517028E+09	5,836944E+09	7,034119E+09	1,287106E+10
-647	2,918498E+09	2,918532E+09	3,517070E+09	3,517086E+09	5,837029E+09	7,034156E+09	1,287119E+10
-646	2,918577E+09	2,918566E+09	3,517071E+09	3,517078E+09	5,837144E+09	7,034149E+09	1,287129E+10
-645	2,918426E+09	2,918457E+09	3,517075E+09	3,517052E+09	5,836883E+09	7,034127E+09	1,287101E+10
-644	2,918475E+09	2,918533E+09	3,517106E+09	3,517094E+09	5,837007E+09	7,034200E+09	1,287121E+10
-643	2,918486E+09	2,918454E+09	3,517099E+09	3,517030E+09	5,836940E+09	7,034129E+09	1,287107E+10
-642	2,918377E+09	2,918381E+09	3,517065E+09	3,517068E+09	5,836758E+09	7,034132E+09	1,287089E+10
-641	2,918476E+09	2,918463E+09	3,517069E+09	3,517113E+09	5,836940E+09	7,034182E+09	1,287112E+10
-640	2,918400E+09	2,918370E+09	3,517056E+09	3,517027E+09	5,836770E+09	7,034083E+09	1,287085E+10
-639	2,918341E+09	2,918414E+09	3,517038E+09	3,517065E+09	5,836755E+09	7,034103E+09	1,287086E+10
-638	2,918472E+09	2,918457E+09	3,517055E+09	3,517057E+09	5,836929E+09	7,034112E+09	1,287104E+10
-637	2,918369E+09	2,918348E+09	3,517078E+09	3,517005E+09	5,836717E+09	7,034082E+09	1,287080E+10
-636	2,918401E+09	2,918446E+09	3,517099E+09	3,517072E+09	5,836847E+09	7,034170E+09	1,287102E+10
-635	2,918478E+09	2,918467E+09	3,517078E+09	3,517053E+09	5,836945E+09	7,034131E+09	1,287108E+10
-634	2,918377E+09	2,918430E+09	3,517054E+09	3,517085E+09	5,836807E+09	7,034139E+09	1,287095E+10
-633	2,918499E+09	2,918540E+09	3,517080E+09	3,517135E+09	5,837039E+09	7,034215E+09	1,287125E+10
-632	2,918530E+09	2,918488E+09	3,517091E+09	3,517034E+09	5,837018E+09	7,034125E+09	1,287114E+10
-631	2,918482E+09	2,918510E+09	3,517075E+09	3,517063E+09	5,836992E+09	7,034137E+09	1,287113E+10
-630	2,918640E+09	2,918595E+09	3,517076E+09	3,517092E+09	5,837235E+09	7,034168E+09	1,287140E+10
-629	2,918553E+09	2,918520E+09	3,517081E+09	3,517032E+09	5,837073E+09	7,034113E+09	1,287119E+10
-628	2,918511E+09	2,918599E+09	3,517089E+09	3,517099E+09	5,837110E+09	7,034188E+09	1,287130E+10
-627	2,918602E+09	2,918617E+09	3,517079E+09	3,517072E+09	5,837218E+09	7,034151E+09	1,287137E+10
-626	2,918472E+09	2,918497E+09	3,517083E+09	3,517055E+09	5,836969E+09	7,034137E+09	1,287111E+10
-625	2,918522E+09	2,918538E+09	3,517112E+09	3,517107E+09	5,837060E+09	7,034219E+09	1,287128E+10
-624	2,918552E+09	2,918477E+09	3,517090E+09	3,517032E+09	5,837029E+09	7,034122E+09	1,287115E+10
-623	2,918411E+09	2,918447E+09	3,517043E+09	3,517066E+09	5,836858E+09	7,034109E+09	1,287097E+10
-622	2,918518E+09	2,918518E+09	3,517028E+09	3,517111E+09	5,837036E+09	7,034139E+09	1,287118E+10
-621	2,918459E+09	2,918425E+09	3,517050E+09	3,517008E+09	5,836883E+09	7,034059E+09	1,287094E+10
-620	2,918383E+09	2,918457E+09	3,517071E+09	3,517046E+09	5,836840E+09	7,034117E+09	1,287096E+10
-619	2,918526E+09	2,918503E+09	3,517064E+09	3,517037E+09	5,837029E+09	7,034101E+09	1,287113E+10
-618	2,918423E+09	2,918414E+09	3,517070E+09	3,517021E+09	5,836837E+09	7,034091E+09	1,287093E+10
-617	2,918436E+09	2,918501E+09	3,517092E+09	3,517108E+09	5,836937E+09	7,034200E+09	1,287114E+10
-616	2,918538E+09	2,918524E+09	3,517073E+09	3,517057E+09	5,837062E+09	7,034131E+09	1,287119E+10
-615	2,918430E+09	2,918496E+09	3,517061E+09	3,517066E+09	5,836926E+09	7,034127E+09	1,287105E+10
-614	2,918580E+09	2,918578E+09	3,517068E+09	3,517117E+09	5,837158E+09	7,034185E+09	1,287134E+10
-613	2,918621E+09	2,918534E+09	3,517091E+09	3,517019E+09	5,837154E+09	7,034110E+09	1,287126E+10
-612	2,918531E+09	2,918572E+09	3,517086E+09	3,517068E+09	5,837103E+09	7,034154E+09	1,287126E+10
-611	2,918675E+09	2,918671E+09	3,517054E+09	3,517093E+09	5,837346E+09	7,034147E+09	1,287149E+10
-610	2,918588E+09	2,918600E+09	3,517066E+09	3,517045E+09	5,837188E+09	7,034111E+09	1,287130E+10
-609	2,918543E+09	2,918631E+09	3,517101E+09	3,517105E+09	5,837174E+09	7,034206E+09	1,287138E+10
-608	2,918665E+09	2,918636E+09	3,517094E+09	3,517051E+09	5,837301E+09	7,034144E+09	1,287145E+10
-607	2,918526E+09	2,918535E+09	3,517090E+09	3,517037E+09	5,837061E+09	7,034127E+09	1,287119E+10
-606	2,918577E+09	2,918569E+09	3,517076E+09	3,517114E+09	5,837146E+09	7,034190E+09	1,287134E+10
-605	2,918602E+09	2,918536E+09	3,517068E+09	3,517040E+09	5,837138E+09	7,034108E+09	1,287125E+10
-604	2,918435E+09	2,918512E+09	3,517051E+09	3,517067E+09	5,836947E+09	7,034117E+09	1,287106E+10
-603	2,918552E+09	2,918572E+09	3,517029E+09	3,517085E+09	5,837124E+09	7,034114E+09	1,287124E+10
-602	2,918516E+09	2,918482E+09	3,517062E+09	3,516998E+09	5,836998E+09	7,034060E+09	1,287106E+10
-601	2,918432E+09	2,918479E+09	3,517092E+09	3,517053E+09	5,836911E+09	7,034145E+09	1,287106E+10
-600	2,918578E+09	2,918546E+09	3,517066E+09	3,517045E+09	5,837124E+09	7,034111E+09	1,287123E+10

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	2,918458E+09	2,918490E+09	3,517060E+09	3,517032E+09	5,836948E+09	7,034093E+09	1,287104E+10
-598	2,918488E+09	2,918544E+09	3,517060E+09	3,517120E+09	5,837032E+09	7,034179E+09	1,287121E+10
-597	2,918616E+09	2,918569E+09	3,517071E+09	3,517045E+09	5,837185E+09	7,034116E+09	1,287130E+10
-596	2,918501E+09	2,918542E+09	3,517077E+09	3,517045E+09	5,837043E+09	7,034122E+09	1,287116E+10
-595	2,918653E+09	2,918634E+09	3,517053E+09	3,517091E+09	5,837287E+09	7,034145E+09	1,287143E+10
-594	2,918685E+09	2,918625E+09	3,517068E+09	3,517024E+09	5,837310E+09	7,034092E+09	1,287140E+10
-593	2,918563E+09	2,918643E+09	3,517087E+09	3,517088E+09	5,837206E+09	7,034174E+09	1,287138E+10
-592	2,918714E+09	2,918738E+09	3,517068E+09	3,517089E+09	5,837452E+09	7,034157E+09	1,287161E+10
-591	2,918624E+09	2,918660E+09	3,517097E+09	3,517030E+09	5,837283E+09	7,034127E+09	1,287141E+10
-590	2,918600E+09	2,918644E+09	3,517105E+09	3,517107E+09	5,837243E+09	7,034212E+09	1,287146E+10
-589	2,918733E+09	2,918653E+09	3,517098E+09	3,517057E+09	5,837387E+09	7,034155E+09	1,287154E+10
-588	2,918561E+09	2,918576E+09	3,517084E+09	3,517056E+09	5,837137E+09	7,034140E+09	1,287128E+10
-587	2,918611E+09	2,918626E+09	3,517031E+09	3,517117E+09	5,837238E+09	7,034148E+09	1,287139E+10
-586	2,918647E+09	2,918604E+09	3,517033E+09	3,517034E+09	5,837251E+09	7,034067E+09	1,287132E+10
-585	2,918478E+09	2,918544E+09	3,517063E+09	3,517048E+09	5,837022E+09	7,034110E+09	1,287113E+10
-584	2,918616E+09	2,918606E+09	3,517047E+09	3,517042E+09	5,837221E+09	7,034089E+09	1,287131E+10
-583	2,918562E+09	2,918537E+09	3,517081E+09	3,516976E+09	5,837099E+09	7,034057E+09	1,287116E+10
-582	2,918476E+09	2,918523E+09	3,517074E+09	3,517074E+09	5,836999E+09	7,034149E+09	1,287115E+10
-581	2,918624E+09	2,918603E+09	3,517060E+09	3,517067E+09	5,837228E+09	7,034127E+09	1,287135E+10
-580	2,918493E+09	2,918551E+09	3,517072E+09	3,517047E+09	5,837044E+09	7,034119E+09	1,287116E+10
-579	2,918549E+09	2,918595E+09	3,517046E+09	3,517106E+09	5,837144E+09	7,034152E+09	1,287130E+10
-578	2,918700E+09	2,918632E+09	3,517060E+09	3,517037E+09	5,837332E+09	7,034097E+09	1,287143E+10
-577	2,918571E+09	2,918589E+09	3,517085E+09	3,517048E+09	5,837160E+09	7,034133E+09	1,287129E+10
-576	2,918712E+09	2,918709E+09	3,517047E+09	3,517084E+09	5,837421E+09	7,034131E+09	1,287155E+10
-575	2,918720E+09	2,918723E+09	3,517070E+09	3,517022E+09	5,837442E+09	7,034092E+09	1,287153E+10
-574	2,918607E+09	2,918690E+09	3,517079E+09	3,517095E+09	5,837297E+09	7,034175E+09	1,287147E+10
-573	2,918772E+09	2,918768E+09	3,517091E+09	3,517079E+09	5,837541E+09	7,034171E+09	1,287171E+10
-572	2,918677E+09	2,918686E+09	3,517123E+09	3,517028E+09	5,837363E+09	7,034152E+09	1,287151E+10
-571	2,918655E+09	2,918669E+09	3,517080E+09	3,517103E+09	5,837324E+09	7,034183E+09	1,287151E+10
-570	2,918787E+09	2,918718E+09	3,517057E+09	3,517074E+09	5,837505E+09	7,034131E+09	1,287164E+10
-569	2,918597E+09	2,918625E+09	3,517066E+09	3,517064E+09	5,837221E+09	7,034129E+09	1,287135E+10
-568	2,918651E+09	2,918684E+09	3,517026E+09	3,517086E+09	5,837335E+09	7,034112E+09	1,287145E+10
-567	2,918688E+09	2,918670E+09	3,517056E+09	3,516995E+09	5,837357E+09	7,034051E+09	1,287141E+10
-566	2,918532E+09	2,918563E+09	3,517073E+09	3,517039E+09	5,837095E+09	7,034112E+09	1,287121E+10
-565	2,918666E+09	2,918635E+09	3,517069E+09	3,517047E+09	5,837302E+09	7,034116E+09	1,287142E+10
-564	2,918586E+09	2,918590E+09	3,517089E+09	3,517008E+09	5,837176E+09	7,034096E+09	1,287127E+10
-563	2,918506E+09	2,918576E+09	3,517038E+09	3,517094E+09	5,837082E+09	7,034132E+09	1,287121E+10
-562	2,918682E+09	2,918666E+09	3,517028E+09	3,517078E+09	5,837349E+09	7,034106E+09	1,287145E+10
-561	2,918564E+09	2,918584E+09	3,517074E+09	3,517036E+09	5,837148E+09	7,034110E+09	1,287126E+10
-560	2,918639E+09	2,918648E+09	3,517043E+09	3,517066E+09	5,837286E+09	7,034109E+09	1,287140E+10
-559	2,918772E+09	2,918717E+09	3,517064E+09	3,517008E+09	5,837489E+09	7,034072E+09	1,287156E+10
-558	2,918629E+09	2,918659E+09	3,517073E+09	3,517057E+09	5,837288E+09	7,034130E+09	1,287142E+10
-557	2,918757E+09	2,918782E+09	3,517066E+09	3,517088E+09	5,837539E+09	7,034154E+09	1,287169E+10
-556	2,918746E+09	2,918786E+09	3,517108E+09	3,517033E+09	5,837532E+09	7,034141E+09	1,287167E+10
-555	2,918656E+09	2,918724E+09	3,517085E+09	3,517094E+09	5,837380E+09	7,034179E+09	1,287156E+10
-554	2,918842E+09	2,918801E+09	3,517079E+09	3,517089E+09	5,837643E+09	7,034168E+09	1,287181E+10
-553	2,918734E+09	2,918704E+09	3,517115E+09	3,517047E+09	5,837439E+09	7,034163E+09	1,287160E+10
-552	2,918707E+09	2,918726E+09	3,517040E+09	3,517098E+09	5,837434E+09	7,034138E+09	1,287157E+10
-551	2,918821E+09	2,918797E+09	3,517032E+09	3,517054E+09	5,837618E+09	7,034086E+09	1,287170E+10

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							
-550	2,918644E+09	2,918666E+09	3,517050E+09	3,517046E+09	5,837309E+09	7,034096E+09	1,287141E+10
-549	2,918706E+09	2,918716E+09	3,517052E+09	3,517047E+09	5,837422E+09	7,034099E+09	1,287152E+10
-548	2,918726E+09	2,918709E+09	3,517090E+09	3,516982E+09	5,837435E+09	7,034072E+09	1,287151E+10
-547	2,918571E+09	2,918601E+09	3,517060E+09	3,517045E+09	5,837172E+09	7,034105E+09	1,287128E+10
-546	2,918701E+09	2,918702E+09	3,517042E+09	3,517080E+09	5,837403E+09	7,034122E+09	1,287153E+10
-545	2,918619E+09	2,918637E+09	3,517087E+09	3,517038E+09	5,837255E+09	7,034125E+09	1,287138E+10
-544	2,918562E+09	2,918632E+09	3,517029E+09	3,517080E+09	5,837194E+09	7,034109E+09	1,287130E+10
-543	2,918753E+09	2,918731E+09	3,517041E+09	3,517047E+09	5,837484E+09	7,034087E+09	1,287157E+10
-542	2,918652E+09	2,918620E+09	3,517071E+09	3,517025E+09	5,837272E+09	7,034096E+09	1,287137E+10
-541	2,918712E+09	2,918704E+09	3,517057E+09	3,517056E+09	5,837417E+09	7,034113E+09	1,287153E+10
-540	2,918809E+09	2,918804E+09	3,517074E+09	3,517026E+09	5,837613E+09	7,034100E+09	1,287171E+10
-539	2,918665E+09	2,918724E+09	3,517054E+09	3,517068E+09	5,837389E+09	7,034121E+09	1,287151E+10
-538	2,918805E+09	2,918844E+09	3,517058E+09	3,517098E+09	5,837650E+09	7,034157E+09	1,287181E+10
-537	2,918807E+09	2,918805E+09	3,517125E+09	3,517035E+09	5,837612E+09	7,034160E+09	1,287177E+10
-536	2,918728E+09	2,918756E+09	3,517072E+09	3,517074E+09	5,837484E+09	7,034146E+09	1,287163E+10
-535	2,918903E+09	2,918865E+09	3,517063E+09	3,517077E+09	5,837769E+09	7,034139E+09	1,287191E+10
-534	2,918788E+09	2,918756E+09	3,517076E+09	3,517056E+09	5,837544E+09	7,034131E+09	1,287168E+10
-533	2,918752E+09	2,918787E+09	3,517039E+09	3,517081E+09	5,837539E+09	7,034120E+09	1,287166E+10
-532	2,918848E+09	2,918860E+09	3,517057E+09	3,517038E+09	5,837707E+09	7,034095E+09	1,287180E+10
-531	2,918683E+09	2,918699E+09	3,517058E+09	3,517026E+09	5,837382E+09	7,034084E+09	1,287147E+10
-530	2,918752E+09	2,918755E+09	3,517057E+09	3,517053E+09	5,837506E+09	7,034110E+09	1,287162E+10
-529	2,918759E+09	2,918732E+09	3,517102E+09	3,517014E+09	5,837491E+09	7,034115E+09	1,287161E+10
-528	2,918605E+09	2,918655E+09	3,517032E+09	3,517060E+09	5,837260E+09	7,034093E+09	1,287135E+10
-527	2,918742E+09	2,918767E+09	3,517025E+09	3,517079E+09	5,837510E+09	7,034103E+09	1,287161E+10
-526	2,918687E+09	2,918667E+09	3,517068E+09	3,517033E+09	5,837355E+09	7,034101E+09	1,287146E+10
-525	2,918651E+09	2,918669E+09	3,517042E+09	3,517041E+09	5,837319E+09	7,034083E+09	1,287140E+10
-524	2,918820E+09	2,918790E+09	3,517058E+09	3,517027E+09	5,837610E+09	7,034085E+09	1,287170E+10
-523	2,918712E+09	2,918690E+09	3,517052E+09	3,517021E+09	5,837402E+09	7,034074E+09	1,287148E+10
-522	2,918758E+09	2,918796E+09	3,517036E+09	3,517072E+09	5,837554E+09	7,034108E+09	1,287166E+10
-521	2,918840E+09	2,918865E+09	3,517091E+09	3,517049E+09	5,837706E+09	7,034140E+09	1,287185E+10
-520	2,918715E+09	2,918786E+09	3,517059E+09	3,517060E+09	5,837501E+09	7,034119E+09	1,287162E+10
-519	2,918868E+09	2,918895E+09	3,517076E+09	3,517083E+09	5,837763E+09	7,034158E+09	1,287192E+10
-518	2,918886E+09	2,918824E+09	3,517115E+09	3,517047E+09	5,837710E+09	7,034162E+09	1,287187E+10
-517	2,918799E+09	2,918798E+09	3,517062E+09	3,517072E+09	5,837597E+09	7,034134E+09	1,287173E+10
-516	2,918937E+09	2,918938E+09	3,517048E+09	3,517084E+09	5,837875E+09	7,034132E+09	1,287201E+10
-515	2,918826E+09	2,918815E+09	3,517042E+09	3,517044E+09	5,837641E+09	7,034085E+09	1,287173E+10
-514	2,918797E+09	2,918842E+09	3,517032E+09	3,517060E+09	5,837640E+09	7,034092E+09	1,287173E+10
-513	2,918892E+09	2,918881E+09	3,517088E+09	3,517025E+09	5,837773E+09	7,034114E+09	1,287189E+10
-512	2,918731E+09	2,918736E+09	3,517062E+09	3,517010E+09	5,837468E+09	7,034072E+09	1,287154E+10
-511	2,918786E+09	2,918814E+09	3,517060E+09	3,517057E+09	5,837599E+09	7,034117E+09	1,287172E+10
-510	2,918798E+09	2,918770E+09	3,517080E+09	3,517046E+09	5,837568E+09	7,034126E+09	1,287169E+10
-509	2,918653E+09	2,918699E+09	3,517036E+09	3,517058E+09	5,837353E+09	7,034094E+09	1,287145E+10
-508	2,918792E+09	2,918821E+09	3,517040E+09	3,517071E+09	5,837613E+09	7,034112E+09	1,287172E+10
-507	2,918759E+09	2,918704E+09	3,517052E+09	3,517012E+09	5,837463E+09	7,034064E+09	1,287153E+10
-506	2,918723E+09	2,918729E+09	3,517030E+09	3,517035E+09	5,837452E+09	7,034066E+09	1,287152E+10
-505	2,918868E+09	2,918850E+09	3,517061E+09	3,517044E+09	5,837718E+09	7,034105E+09	1,287182E+10
-504	2,918748E+09	2,918775E+09	3,517031E+09	3,517025E+09	5,837524E+09	7,034056E+09	1,287158E+10
-503	2,918796E+09	2,918879E+09	3,517042E+09	3,517068E+09	5,837675E+09	7,034110E+09	1,287178E+10
-502	2,918903E+09	2,918896E+09	3,517093E+09	3,516990E+09	5,837799E+09	7,034083E+09	1,287188E+10

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	2,918799E+09	2,918813E+09	3,517078E+09	3,517038E+09	5,837612E+09	7,034116E+09	1,287173E+10
-500	2,918934E+09	2,918943E+09	3,517082E+09	3,517080E+09	5,837877E+09	7,034161E+09	1,287204E+10
-499	2,918945E+09	2,918881E+09	3,517074E+09	3,517050E+09	5,837826E+09	7,034124E+09	1,287195E+10
-498	2,918848E+09	2,918881E+09	3,517029E+09	3,517077E+09	5,837728E+09	7,034106E+09	1,287183E+10
-497	2,918969E+09	2,918992E+09	3,517060E+09	3,517086E+09	5,837961E+09	7,034146E+09	1,287211E+10
-496	2,918866E+09	2,918874E+09	3,517052E+09	3,517015E+09	5,837740E+09	7,034066E+09	1,287181E+10
-495	2,918844E+09	2,918889E+09	3,517062E+09	3,517035E+09	5,837733E+09	7,034097E+09	1,287183E+10
-494	2,918940E+09	2,918895E+09	3,517095E+09	3,517044E+09	5,837835E+09	7,034139E+09	1,287197E+10
-493	2,918777E+09	2,918771E+09	3,517064E+09	3,517025E+09	5,837548E+09	7,034089E+09	1,287164E+10
-492	2,918807E+09	2,918867E+09	3,517048E+09	3,517082E+09	5,837673E+09	7,034130E+09	1,287180E+10
-491	2,918840E+09	2,918809E+09	3,517043E+09	3,517048E+09	5,837649E+09	7,034091E+09	1,287174E+10
-490	2,918722E+09	2,918746E+09	3,517010E+09	3,517037E+09	5,837468E+09	7,034047E+09	1,287152E+10
-489	2,918857E+09	2,918851E+09	3,517048E+09	3,517054E+09	5,837708E+09	7,034102E+09	1,287181E+10
-488	2,918824E+09	2,918775E+09	3,517036E+09	3,516985E+09	5,837599E+09	7,034021E+09	1,287162E+10
-487	2,918771E+09	2,918820E+09	3,517031E+09	3,517025E+09	5,837591E+09	7,034055E+09	1,287165E+10
-486	2,918907E+09	2,918915E+09	3,517059E+09	3,517065E+09	5,837822E+09	7,034125E+09	1,287195E+10
-485	2,918800E+09	2,918833E+09	3,517061E+09	3,517020E+09	5,837633E+09	7,034081E+09	1,287171E+10
-484	2,918843E+09	2,918931E+09	3,517078E+09	3,517069E+09	5,837773E+09	7,034147E+09	1,287192E+10
-483	2,918975E+09	2,918923E+09	3,517086E+09	3,517054E+09	5,837898E+09	7,034140E+09	1,287204E+10
-482	2,918877E+09	2,918862E+09	3,517056E+09	3,517049E+09	5,837740E+09	7,034105E+09	1,287184E+10
-481	2,918987E+09	2,918995E+09	3,517067E+09	3,517105E+09	5,837982E+09	7,034171E+09	1,287215E+10
-480	2,918989E+09	2,918964E+09	3,517035E+09	3,517041E+09	5,837953E+09	7,034076E+09	1,287203E+10
-479	2,918893E+09	2,918957E+09	3,517031E+09	3,517049E+09	5,837850E+09	7,034081E+09	1,287193E+10
-478	2,919023E+09	2,919019E+09	3,517073E+09	3,517070E+09	5,838042E+09	7,034143E+09	1,287218E+10
-477	2,918927E+09	2,918899E+09	3,517085E+09	3,516987E+09	5,837826E+09	7,034073E+09	1,287190E+10
-476	2,918878E+09	2,918932E+09	3,517083E+09	3,517044E+09	5,837811E+09	7,034127E+09	1,287194E+10
-475	2,918970E+09	2,918933E+09	3,517060E+09	3,517065E+09	5,837903E+09	7,034125E+09	1,287203E+10
-474	2,918811E+09	2,918828E+09	3,517031E+09	3,517046E+09	5,837640E+09	7,034077E+09	1,287172E+10
-473	2,918843E+09	2,918901E+09	3,517048E+09	3,517092E+09	5,837744E+09	7,034140E+09	1,287188E+10
-472	2,918893E+09	2,918859E+09	3,517030E+09	3,517017E+09	5,837752E+09	7,034047E+09	1,287180E+10
-471	2,918791E+09	2,918803E+09	3,517023E+09	3,517004E+09	5,837594E+09	7,034026E+09	1,287162E+10
-470	2,918918E+09	2,918889E+09	3,517047E+09	3,517055E+09	5,837807E+09	7,034103E+09	1,287191E+10
-469	2,918876E+09	2,918842E+09	3,517044E+09	3,516982E+09	5,837718E+09	7,034026E+09	1,287174E+10
-468	2,918797E+09	2,918899E+09	3,517042E+09	3,517038E+09	5,837696E+09	7,034080E+09	1,287178E+10
-467	2,918950E+09	2,918961E+09	3,517049E+09	3,517069E+09	5,837911E+09	7,034117E+09	1,287203E+10
-466	2,918874E+09	2,918879E+09	3,517061E+09	3,517017E+09	5,837752E+09	7,034078E+09	1,287183E+10
-465	2,918916E+09	2,918955E+09	3,517090E+09	3,517078E+09	5,837871E+09	7,034168E+09	1,287204E+10
-464	2,919045E+09	2,918990E+09	3,517058E+09	3,517048E+09	5,838035E+09	7,034106E+09	1,287214E+10
-463	2,918941E+09	2,918953E+09	3,517037E+09	3,517042E+09	5,837894E+09	7,034079E+09	1,287197E+10
-462	2,919035E+09	2,919059E+09	3,517053E+09	3,517113E+09	5,838094E+09	7,034166E+09	1,287226E+10
-461	2,919045E+09	2,919029E+09	3,517060E+09	3,517015E+09	5,838074E+09	7,034075E+09	1,287215E+10
-460	2,918933E+09	2,919009E+09	3,517070E+09	3,517032E+09	5,837941E+09	7,034102E+09	1,287204E+10
-459	2,919067E+09	2,919042E+09	3,517077E+09	3,517067E+09	5,838109E+09	7,034145E+09	1,287225E+10
-458	2,918976E+09	2,918936E+09	3,517073E+09	3,517006E+09	5,837912E+09	7,034079E+09	1,287199E+10
-457	2,918899E+09	2,918962E+09	3,517070E+09	3,517083E+09	5,837861E+09	7,034154E+09	1,287201E+10
-456	2,918996E+09	2,918990E+09	3,517018E+09	3,517069E+09	5,837986E+09	7,034086E+09	1,287207E+10
-455	2,918865E+09	2,918880E+09	3,517018E+09	3,517018E+09	5,837744E+09	7,034036E+09	1,287178E+10
-454	2,918911E+09	2,918920E+09	3,517043E+09	3,517068E+09	5,837831E+09	7,034111E+09	1,287194E+10
-453	2,918973E+09	2,918900E+09	3,517043E+09	3,516974E+09	5,837873E+09	7,034017E+09	1,287189E+10

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	2,918836E+09	2,918874E+09	3,517040E+09	3,516993E+09	5,837710E+09	7,034033E+09	1,287174E+10
-451	2,918950E+09	2,918957E+09	3,517031E+09	3,517065E+09	5,837906E+09	7,034096E+09	1,287200E+10
-450	2,918914E+09	2,918917E+09	3,517044E+09	3,517000E+09	5,837831E+09	7,034044E+09	1,287188E+10
-449	2,918834E+09	2,918941E+09	3,517071E+09	3,517063E+09	5,837775E+09	7,034134E+09	1,287191E+10
-448	2,919008E+09	2,919011E+09	3,517047E+09	3,517063E+09	5,838019E+09	7,034110E+09	1,287213E+10
-447	2,918957E+09	2,918931E+09	3,517065E+09	3,517012E+09	5,837888E+09	7,034077E+09	1,287196E+10
-446	2,918993E+09	2,918996E+09	3,517070E+09	3,517099E+09	5,837989E+09	7,034169E+09	1,287216E+10
-445	2,919111E+09	2,919064E+09	3,517041E+09	3,517043E+09	5,838174E+09	7,034084E+09	1,287226E+10
-444	2,918983E+09	2,919041E+09	3,517038E+09	3,517035E+09	5,838024E+09	7,034072E+09	1,287210E+10
-443	2,919083E+09	2,919107E+09	3,517042E+09	3,517086E+09	5,838189E+09	7,034128E+09	1,287232E+10
-442	2,919106E+09	2,919073E+09	3,517069E+09	3,516993E+09	5,838178E+09	7,034062E+09	1,287224E+10
-441	2,918978E+09	2,919031E+09	3,517093E+09	3,517041E+09	5,838010E+09	7,034134E+09	1,287214E+10
-440	2,919097E+09	2,919092E+09	3,517054E+09	3,517071E+09	5,838189E+09	7,034125E+09	1,287231E+10
-439	2,919013E+09	2,918998E+09	3,517058E+09	3,517017E+09	5,838011E+09	7,034075E+09	1,287209E+10
-438	2,918937E+09	2,918992E+09	3,517052E+09	3,517099E+09	5,837929E+09	7,034151E+09	1,287208E+10
-437	2,919054E+09	2,919028E+09	3,517026E+09	3,517039E+09	5,838082E+09	7,034065E+09	1,287215E+10
-436	2,918921E+09	2,918927E+09	3,517039E+09	3,516988E+09	5,837849E+09	7,034027E+09	1,287188E+10
-435	2,918969E+09	2,918953E+09	3,517034E+09	3,517049E+09	5,837922E+09	7,034083E+09	1,287200E+10
-434	2,919027E+09	2,918965E+09	3,517035E+09	3,516980E+09	5,837993E+09	7,034015E+09	1,287201E+10
-433	2,918860E+09	2,918933E+09	3,517044E+09	3,517030E+09	5,837794E+09	7,034073E+09	1,287187E+10
-432	2,918971E+09	2,919029E+09	3,517016E+09	3,517071E+09	5,838000E+09	7,034087E+09	1,287209E+10
-431	2,918974E+09	2,918974E+09	3,517054E+09	3,516993E+09	5,837948E+09	7,034047E+09	1,287200E+10
-430	2,918910E+09	2,918959E+09	3,517075E+09	3,517067E+09	5,837869E+09	7,034142E+09	1,287201E+10
-429	2,919101E+09	2,919056E+09	3,517050E+09	3,517045E+09	5,838158E+09	7,034095E+09	1,287225E+10
-428	2,919026E+09	2,919009E+09	3,517056E+09	3,517007E+09	5,838035E+09	7,034062E+09	1,287210E+10
-427	2,919047E+09	2,919071E+09	3,517033E+09	3,517097E+09	5,838118E+09	7,034130E+09	1,287225E+10
-426	2,919167E+09	2,919147E+09	3,517033E+09	3,517033E+09	5,838315E+09	7,034066E+09	1,287238E+10
-425	2,919022E+09	2,919089E+09	3,517071E+09	3,517034E+09	5,838112E+09	7,034105E+09	1,287222E+10
-424	2,919122E+09	2,919157E+09	3,517054E+09	3,517066E+09	5,838279E+09	7,034120E+09	1,287240E+10
-423	2,919164E+09	2,919114E+09	3,517084E+09	3,516993E+09	5,838278E+09	7,034078E+09	1,287236E+10
-422	2,919021E+09	2,919053E+09	3,517080E+09	3,517076E+09	5,838073E+09	7,034156E+09	1,287223E+10
-421	2,919140E+09	2,919139E+09	3,517033E+09	3,517077E+09	5,838279E+09	7,034111E+09	1,287239E+10
-420	2,919050E+09	2,919053E+09	3,517047E+09	3,517010E+09	5,838103E+09	7,034057E+09	1,287216E+10
-419	2,918992E+09	2,919019E+09	3,517026E+09	3,517072E+09	5,838011E+09	7,034098E+09	1,287211E+10
-418	2,919126E+09	2,919067E+09	3,517023E+09	3,517007E+09	5,838193E+09	7,034030E+09	1,287222E+10
-417	2,918971E+09	2,918969E+09	3,517054E+09	3,516988E+09	5,837940E+09	7,034043E+09	1,287198E+10
-416	2,918995E+09	2,919030E+09	3,517016E+09	3,517043E+09	5,838025E+09	7,034059E+09	1,287208E+10
-415	2,919061E+09	2,919049E+09	3,517035E+09	3,516994E+09	5,838109E+09	7,034029E+09	1,287214E+10
-414	2,918897E+09	2,918976E+09	3,517053E+09	3,517057E+09	5,837873E+09	7,034110E+09	1,287198E+10
-413	2,919030E+09	2,919069E+09	3,517037E+09	3,517059E+09	5,838099E+09	7,034096E+09	1,287219E+10
-412	2,919044E+09	2,919020E+09	3,517076E+09	3,516986E+09	5,838064E+09	7,034062E+09	1,287213E+10
-411	2,918992E+09	2,918991E+09	3,517046E+09	3,517064E+09	5,837982E+09	7,034110E+09	1,287209E+10
-410	2,919175E+09	2,919124E+09	3,517021E+09	3,517049E+09	5,838299E+09	7,034070E+09	1,287237E+10
-409	2,919071E+09	2,919086E+09	3,517043E+09	3,517024E+09	5,838158E+09	7,034067E+09	1,287222E+10
-408	2,919084E+09	2,919153E+09	3,517012E+09	3,517071E+09	5,838237E+09	7,034083E+09	1,287232E+10
-407	2,919232E+09	2,919211E+09	3,517049E+09	3,517006E+09	5,838443E+09	7,034056E+09	1,287250E+10
-406	2,919086E+09	2,919111E+09	3,517089E+09	3,517033E+09	5,838197E+09	7,034122E+09	1,287232E+10
-405	2,919182E+09	2,919196E+09	3,517067E+09	3,517056E+09	5,838378E+09	7,034123E+09	1,287250E+10
-404	2,919203E+09	2,919177E+09	3,517083E+09	3,517007E+09	5,838380E+09	7,034091E+09	1,287247E+10

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	2,919058E+09	2,919098E+09	3,517042E+09	3,517090E+09	5,838155E+09	7,034132E+09	1,287229E+10
-402	2,919191E+09	2,919190E+09	3,517020E+09	3,517074E+09	5,838381E+09	7,034094E+09	1,287248E+10
-401	2,919095E+09	2,919090E+09	3,517060E+09	3,517006E+09	5,838185E+09	7,034066E+09	1,287225E+10
-400	2,919038E+09	2,919068E+09	3,517019E+09	3,517040E+09	5,838106E+09	7,034059E+09	1,287216E+10
-399	2,919186E+09	2,919124E+09	3,517027E+09	3,516999E+09	5,838310E+09	7,034026E+09	1,287234E+10
-398	2,919005E+09	2,919012E+09	3,517050E+09	3,517018E+09	5,838017E+09	7,034068E+09	1,287208E+10
-397	2,919027E+09	2,919094E+09	3,517017E+09	3,517047E+09	5,838120E+09	7,034063E+09	1,287218E+10
-396	2,919097E+09	2,919104E+09	3,517047E+09	3,516989E+09	5,838201E+09	7,034036E+09	1,287224E+10
-395	2,918959E+09	2,918996E+09	3,517039E+09	3,517044E+09	5,837955E+09	7,034083E+09	1,287204E+10
-394	2,919119E+09	2,919102E+09	3,517033E+09	3,517043E+09	5,838221E+09	7,034075E+09	1,287230E+10
-393	2,919112E+09	2,919068E+09	3,517071E+09	3,516997E+09	5,838180E+09	7,034068E+09	1,287225E+10
-392	2,919041E+09	2,919080E+09	3,517008E+09	3,517056E+09	5,838121E+09	7,034064E+09	1,287219E+10
-391	2,919234E+09	2,919219E+09	3,517008E+09	3,517047E+09	5,838453E+09	7,034055E+09	1,287251E+10
-390	2,919120E+09	2,919146E+09	3,517057E+09	3,517029E+09	5,838266E+09	7,034085E+09	1,287235E+10
-389	2,919143E+09	2,919211E+09	3,517044E+09	3,517042E+09	5,838354E+09	7,034087E+09	1,287244E+10
-388	2,919288E+09	2,919262E+09	3,517086E+09	3,516997E+09	5,838550E+09	7,034083E+09	1,287263E+10
-387	2,919143E+09	2,919139E+09	3,517077E+09	3,517051E+09	5,838282E+09	7,034127E+09	1,287241E+10
-386	2,919232E+09	2,919245E+09	3,517047E+09	3,517080E+09	5,838477E+09	7,034127E+09	1,287260E+10
-385	2,919232E+09	2,919228E+09	3,517066E+09	3,517041E+09	5,838460E+09	7,034107E+09	1,287257E+10
-384	2,919094E+09	2,919151E+09	3,517007E+09	3,517067E+09	5,838246E+09	7,034075E+09	1,287232E+10
-383	2,919258E+09	2,919234E+09	3,517015E+09	3,517044E+09	5,838492E+09	7,034059E+09	1,287255E+10
-382	2,919159E+09	2,919115E+09	3,517065E+09	3,516993E+09	5,838274E+09	7,034058E+09	1,287233E+10
-381	2,919091E+09	2,919119E+09	3,517024E+09	3,517011E+09	5,838210E+09	7,034036E+09	1,287225E+10
-380	2,919213E+09	2,919199E+09	3,517037E+09	3,516998E+09	5,838412E+09	7,034036E+09	1,287245E+10
-379	2,919035E+09	2,919059E+09	3,517034E+09	3,517029E+09	5,838094E+09	7,034063E+09	1,287216E+10
-378	2,919069E+09	2,919133E+09	3,517028E+09	3,517048E+09	5,838201E+09	7,034076E+09	1,287228E+10
-377	2,919144E+09	2,919135E+09	3,517069E+09	3,517004E+09	5,838278E+09	7,034073E+09	1,287235E+10
-376	2,919021E+09	2,919037E+09	3,517020E+09	3,517029E+09	5,838058E+09	7,034049E+09	1,287211E+10
-375	2,919201E+09	2,919162E+09	3,517012E+09	3,517049E+09	5,838362E+09	7,034060E+09	1,287242E+10
-374	2,919170E+09	2,919134E+09	3,517043E+09	3,517020E+09	5,838305E+09	7,034063E+09	1,287237E+10
-373	2,919095E+09	2,919168E+09	3,516998E+09	3,517036E+09	5,838264E+09	7,034034E+09	1,287230E+10
-372	2,919285E+09	2,919300E+09	3,517031E+09	3,517020E+09	5,838585E+09	7,034051E+09	1,287264E+10
-371	2,919187E+09	2,919184E+09	3,517065E+09	3,517010E+09	5,838371E+09	7,034075E+09	1,287245E+10
-370	2,919215E+09	2,919251E+09	3,517065E+09	3,517037E+09	5,838466E+09	7,034102E+09	1,287257E+10
-369	2,919331E+09	2,919311E+09	3,517093E+09	3,517031E+09	5,838642E+09	7,034124E+09	1,287277E+10
-368	2,919175E+09	2,919208E+09	3,517041E+09	3,517063E+09	5,838383E+09	7,034104E+09	1,287249E+10
-367	2,919285E+09	2,919309E+09	3,517026E+09	3,517092E+09	5,838594E+09	7,034119E+09	1,287271E+10
-366	2,919280E+09	2,919261E+09	3,517064E+09	3,517044E+09	5,838541E+09	7,034108E+09	1,287265E+10
-365	2,919158E+09	2,919196E+09	3,517019E+09	3,517025E+09	5,838354E+09	7,034044E+09	1,287240E+10
-364	2,919316E+09	2,919278E+09	3,517036E+09	3,517012E+09	5,838594E+09	7,034047E+09	1,287264E+10
-363	2,919203E+09	2,919149E+09	3,517050E+09	3,516993E+09	5,838352E+09	7,034043E+09	1,287240E+10
-362	2,919122E+09	2,919176E+09	3,517019E+09	3,517023E+09	5,838298E+09	7,034042E+09	1,287234E+10
-361	2,919222E+09	2,919248E+09	3,517040E+09	3,517027E+09	5,838470E+09	7,034067E+09	1,287254E+10
-360	2,919065E+09	2,919101E+09	3,517019E+09	3,517017E+09	5,838166E+09	7,034036E+09	1,287220E+10
-359	2,919143E+09	2,919162E+09	3,517023E+09	3,517040E+09	5,838306E+09	7,034063E+09	1,287237E+10
-358	2,919216E+09	2,919160E+09	3,517062E+09	3,517011E+09	5,838376E+09	7,034073E+09	1,287245E+10
-357	2,919093E+09	2,919110E+09	3,517002E+09	3,517009E+09	5,838203E+09	7,034011E+09	1,287221E+10
-356	2,919253E+09	2,919258E+09	3,517006E+09	3,517039E+09	5,838511E+09	7,034045E+09	1,287256E+10
-355	2,919223E+09	2,919209E+09	3,517031E+09	3,517015E+09	5,838432E+09	7,034047E+09	1,287248E+10

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	2,919154E+09	2,919233E+09	3,517029E+09	3,517020E+09	5,838387E+09	7,034049E+09	1,287244E+10
-353	2,919329E+09	2,919349E+09	3,517074E+09	3,517031E+09	5,838678E+09	7,034105E+09	1,287278E+10
-352	2,919240E+09	2,919229E+09	3,517068E+09	3,517011E+09	5,838469E+09	7,034079E+09	1,287255E+10
-351	2,919278E+09	2,919300E+09	3,517053E+09	3,517068E+09	5,838578E+09	7,034121E+09	1,287270E+10
-350	2,919376E+09	2,919358E+09	3,517068E+09	3,517073E+09	5,838734E+09	7,034141E+09	1,287288E+10
-349	2,919231E+09	2,919267E+09	3,517013E+09	3,517044E+09	5,838498E+09	7,034057E+09	1,287255E+10
-348	2,919345E+09	2,919360E+09	3,517028E+09	3,517053E+09	5,838705E+09	7,034081E+09	1,287279E+10
-347	2,919352E+09	2,919288E+09	3,517049E+09	3,517006E+09	5,838640E+09	7,034055E+09	1,287270E+10
-346	2,919222E+09	2,919233E+09	3,517031E+09	3,516995E+09	5,838455E+09	7,034026E+09	1,287248E+10
-345	2,919335E+09	2,919337E+09	3,517047E+09	3,517028E+09	5,838672E+09	7,034074E+09	1,287275E+10
-344	2,919214E+09	2,919216E+09	3,517031E+09	3,516999E+09	5,838430E+09	7,034030E+09	1,287246E+10
-343	2,919154E+09	2,919229E+09	3,517017E+09	3,517044E+09	5,838383E+09	7,034061E+09	1,287244E+10
-342	2,919257E+09	2,919273E+09	3,517050E+09	3,517047E+09	5,838530E+09	7,034097E+09	1,287263E+10
-341	2,919132E+09	2,919137E+09	3,517023E+09	3,516994E+09	5,838269E+09	7,034017E+09	1,287229E+10
-340	2,919217E+09	2,919209E+09	3,517029E+09	3,517026E+09	5,838426E+09	7,034055E+09	1,287248E+10
-339	2,919284E+09	2,919211E+09	3,517028E+09	3,517017E+09	5,838494E+09	7,034045E+09	1,287254E+10
-338	2,919152E+09	2,919188E+09	3,516993E+09	3,517007E+09	5,838340E+09	7,033999E+09	1,287234E+10
-337	2,919285E+09	2,919335E+09	3,517018E+09	3,517044E+09	5,838621E+09	7,034062E+09	1,287268E+10
-336	2,919269E+09	2,919272E+09	3,517036E+09	3,516989E+09	5,838541E+09	7,034026E+09	1,287257E+10
-335	2,919233E+09	2,919279E+09	3,517045E+09	3,517018E+09	5,838512E+09	7,034064E+09	1,287258E+10
-334	2,919388E+09	2,919381E+09	3,517082E+09	3,517055E+09	5,838768E+09	7,034137E+09	1,287291E+10
-333	2,919301E+09	2,919297E+09	3,517053E+09	3,517014E+09	5,838597E+09	7,034067E+09	1,287266E+10
-332	2,919331E+09	2,919372E+09	3,517040E+09	3,517070E+09	5,838703E+09	7,034110E+09	1,287281E+10
-331	2,919429E+09	2,919404E+09	3,517041E+09	3,517069E+09	5,838833E+09	7,034111E+09	1,287294E+10
-330	2,919298E+09	2,919315E+09	3,517025E+09	3,517013E+09	5,838612E+09	7,034038E+09	1,287265E+10
-329	2,919389E+09	2,919403E+09	3,517049E+09	3,517040E+09	5,838792E+09	7,034089E+09	1,287288E+10
-328	2,919393E+09	2,919335E+09	3,517042E+09	3,516988E+09	5,838728E+09	7,034030E+09	1,287276E+10
-327	2,919263E+09	2,919289E+09	3,517018E+09	3,517018E+09	5,838552E+09	7,034036E+09	1,287259E+10
-326	2,919343E+09	2,919384E+09	3,517038E+09	3,517065E+09	5,838727E+09	7,034103E+09	1,287283E+10
-325	2,919246E+09	2,919267E+09	3,517025E+09	3,516989E+09	5,838512E+09	7,034014E+09	1,287253E+10
-324	2,919208E+09	2,919260E+09	3,517030E+09	3,517021E+09	5,838467E+09	7,034051E+09	1,287252E+10
-323	2,919332E+09	2,919285E+09	3,517036E+09	3,517033E+09	5,838617E+09	7,034069E+09	1,287269E+10
-322	2,919213E+09	2,919178E+09	3,517021E+09	3,516974E+09	5,838391E+09	7,033995E+09	1,287239E+10
-321	2,919259E+09	2,919284E+09	3,517022E+09	3,517037E+09	5,838543E+09	7,034059E+09	1,287260E+10
-320	2,919322E+09	2,919298E+09	3,517005E+09	3,517007E+09	5,838620E+09	7,034012E+09	1,287263E+10
-319	2,919207E+09	2,919263E+09	3,517000E+09	3,517011E+09	5,838469E+09	7,034012E+09	1,287248E+10
-318	2,919328E+09	2,919384E+09	3,517050E+09	3,517054E+09	5,838712E+09	7,034104E+09	1,287282E+10
-317	2,919339E+09	2,919321E+09	3,517055E+09	3,516971E+09	5,838660E+09	7,034026E+09	1,287269E+10
-316	2,919301E+09	2,919326E+09	3,517059E+09	3,517022E+09	5,838627E+09	7,034081E+09	1,287271E+10
-315	2,919448E+09	2,919429E+09	3,517046E+09	3,517081E+09	5,838877E+09	7,034127E+09	1,287300E+10
-314	2,919362E+09	2,919359E+09	3,517031E+09	3,517019E+09	5,838721E+09	7,034050E+09	1,287277E+10
-313	2,919374E+09	2,919435E+09	3,517033E+09	3,517070E+09	5,838809E+09	7,034103E+09	1,287291E+10
-312	2,919487E+09	2,919453E+09	3,517025E+09	3,517028E+09	5,838940E+09	7,034052E+09	1,287299E+10
-311	2,919374E+09	2,919361E+09	3,517024E+09	3,516993E+09	5,838734E+09	7,034017E+09	1,287275E+10
-310	2,919427E+09	2,919446E+09	3,517056E+09	3,517046E+09	5,838874E+09	7,034102E+09	1,287298E+10
-309	2,919425E+09	2,919407E+09	3,517036E+09	3,516981E+09	5,838832E+09	7,034017E+09	1,287285E+10
-308	2,919290E+09	2,919351E+09	3,517030E+09	3,517023E+09	5,838640E+09	7,034052E+09	1,287269E+10
-307	2,919376E+09	2,919410E+09	3,517034E+09	3,517074E+09	5,838786E+09	7,034108E+09	1,287289E+10
-306	2,919307E+09	2,919289E+09	3,517047E+09	3,516977E+09	5,838595E+09	7,034024E+09	1,287262E+10

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	2,919261E+09	2,919288E+09	3,517042E+09	3,517025E+09	5,838548E+09	7,034066E+09	1,287261E+10
-304	2,919388E+09	2,919327E+09	3,517011E+09	3,517024E+09	5,838714E+09	7,034035E+09	1,287275E+10
-303	2,919278E+09	2,919252E+09	3,516989E+09	3,516992E+09	5,838529E+09	7,033982E+09	1,287251E+10
-302	2,919290E+09	2,919352E+09	3,517008E+09	3,517051E+09	5,838643E+09	7,034059E+09	1,287270E+10
-301	2,919372E+09	2,919374E+09	3,517005E+09	3,516978E+09	5,838747E+09	7,033984E+09	1,287273E+10
-300	2,919275E+09	2,919315E+09	3,517028E+09	3,516982E+09	5,838590E+09	7,034010E+09	1,287260E+10
-299	2,919395E+09	2,919411E+09	3,517051E+09	3,517050E+09	5,838806E+09	7,034101E+09	1,287291E+10
-298	2,919412E+09	2,919371E+09	3,517063E+09	3,516975E+09	5,838783E+09	7,034039E+09	1,287282E+10
-297	2,919343E+09	2,919398E+09	3,517047E+09	3,517051E+09	5,838741E+09	7,034099E+09	1,287284E+10
-296	2,919494E+09	2,919498E+09	3,517014E+09	3,517080E+09	5,838992E+09	7,034093E+09	1,287309E+10
-295	2,919433E+09	2,919425E+09	3,517017E+09	3,517017E+09	5,838859E+09	7,034034E+09	1,287289E+10
-294	2,919426E+09	2,919480E+09	3,517045E+09	3,517060E+09	5,838906E+09	7,034105E+09	1,287301E+10
-293	2,919553E+09	2,919508E+09	3,517034E+09	3,516993E+09	5,839061E+09	7,034027E+09	1,287309E+10
-292	2,919427E+09	2,919413E+09	3,517042E+09	3,516985E+09	5,838841E+09	7,034027E+09	1,287287E+10
-291	2,919454E+09	2,919492E+09	3,517039E+09	3,517067E+09	5,838946E+09	7,034106E+09	1,287305E+10
-290	2,919461E+09	2,919452E+09	3,517039E+09	3,516988E+09	5,838912E+09	7,034027E+09	1,287294E+10
-289	2,919316E+09	2,919386E+09	3,517039E+09	3,517031E+09	5,838701E+09	7,034070E+09	1,287277E+10
-288	2,919430E+09	2,919428E+09	3,517019E+09	3,517051E+09	5,838858E+09	7,034070E+09	1,287293E+10
-287	2,919387E+09	2,919319E+09	3,517026E+09	3,516974E+09	5,838706E+09	7,034000E+09	1,287271E+10
-286	2,919310E+09	2,919338E+09	3,517024E+09	3,517036E+09	5,838648E+09	7,034060E+09	1,287271E+10
-285	2,919438E+09	2,919413E+09	3,516981E+09	3,517006E+09	5,838850E+09	7,033987E+09	1,287284E+10
-284	2,919322E+09	2,919334E+09	3,516997E+09	3,516977E+09	5,838656E+09	7,033974E+09	1,287263E+10
-283	2,919332E+09	2,919407E+09	3,517016E+09	3,517042E+09	5,838739E+09	7,034058E+09	1,287280E+10
-282	2,919437E+09	2,919417E+09	3,517044E+09	3,516961E+09	5,838854E+09	7,034005E+09	1,287286E+10
-281	2,919327E+09	2,919358E+09	3,517057E+09	3,516998E+09	5,838685E+09	7,034055E+09	1,287274E+10
-280	2,919450E+09	2,919456E+09	3,517030E+09	3,517063E+09	5,838906E+09	7,034093E+09	1,287300E+10
-279	2,919479E+09	2,919441E+09	3,517025E+09	3,517012E+09	5,838920E+09	7,034037E+09	1,287296E+10
-278	2,919389E+09	2,919463E+09	3,517023E+09	3,517071E+09	5,838851E+09	7,034094E+09	1,287295E+10
-277	2,919562E+09	2,919565E+09	3,517001E+09	3,517040E+09	5,839127E+09	7,034041E+09	1,287317E+10
-276	2,919515E+09	2,919481E+09	3,517035E+09	3,516972E+09	5,838996E+09	7,034007E+09	1,287300E+10
-275	2,919491E+09	2,919518E+09	3,517045E+09	3,517040E+09	5,839009E+09	7,034085E+09	1,287309E+10
-274	2,919608E+09	2,919564E+09	3,517051E+09	3,516987E+09	5,839172E+09	7,034038E+09	1,287321E+10
-273	2,919444E+09	2,919481E+09	3,517051E+09	3,517013E+09	5,838925E+09	7,034064E+09	1,287299E+10
-272	2,919470E+09	2,919536E+09	3,517028E+09	3,517076E+09	5,839005E+09	7,034104E+09	1,287311E+10
-271	2,919511E+09	2,919490E+09	3,517035E+09	3,517006E+09	5,839001E+09	7,034041E+09	1,287304E+10
-270	2,919362E+09	2,919402E+09	3,517039E+09	3,517037E+09	5,838764E+09	7,034076E+09	1,287284E+10
-269	2,919496E+09	2,919464E+09	3,517002E+09	3,517027E+09	5,838959E+09	7,034029E+09	1,287299E+10
-268	2,919452E+09	2,919379E+09	3,517011E+09	3,516963E+09	5,838830E+09	7,033973E+09	1,287280E+10
-267	2,919347E+09	2,919399E+09	3,516989E+09	3,517038E+09	5,838746E+09	7,034027E+09	1,287277E+10
-266	2,919484E+09	2,919479E+09	3,516989E+09	3,516989E+09	5,838963E+09	7,033978E+09	1,287294E+10
-265	2,919359E+09	2,919390E+09	3,517024E+09	3,516968E+09	5,838749E+09	7,033991E+09	1,287274E+10
-264	2,919384E+09	2,919438E+09	3,517025E+09	3,517021E+09	5,838822E+09	7,034046E+09	1,287287E+10
-263	2,919513E+09	2,919462E+09	3,517039E+09	3,516977E+09	5,838974E+09	7,034016E+09	1,287299E+10
-262	2,919376E+09	2,919412E+09	3,517045E+09	3,517030E+09	5,838788E+09	7,034075E+09	1,287286E+10
-261	2,919509E+09	2,919536E+09	3,517001E+09	3,517064E+09	5,839045E+09	7,034065E+09	1,287311E+10
-260	2,919547E+09	2,919519E+09	3,517022E+09	3,517001E+09	5,839067E+09	7,034024E+09	1,287309E+10
-259	2,919454E+09	2,919517E+09	3,517020E+09	3,517055E+09	5,838972E+09	7,034075E+09	1,287305E+10
-258	2,919644E+09	2,919613E+09	3,517030E+09	3,517008E+09	5,839257E+09	7,034038E+09	1,287330E+10
-257	2,919566E+09	2,919537E+09	3,517064E+09	3,516973E+09	5,839103E+09	7,034037E+09	1,287314E+10

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	2,919527E+09	2,919571E+09	3,517034E+09	3,517048E+09	5,839098E+09	7,034082E+09	1,287318E+10
-255	2,919644E+09	2,919627E+09	3,517024E+09	3,517025E+09	5,839270E+09	7,034049E+09	1,287332E+10
-254	2,919464E+09	2,919523E+09	3,517044E+09	3,517041E+09	5,838986E+09	7,034085E+09	1,287307E+10
-253	2,919522E+09	2,919566E+09	3,517014E+09	3,517049E+09	5,839088E+09	7,034063E+09	1,287315E+10
-252	2,919582E+09	2,919516E+09	3,517034E+09	3,516976E+09	5,839097E+09	7,034010E+09	1,287311E+10
-251	2,919424E+09	2,919433E+09	3,517014E+09	3,517022E+09	5,838857E+09	7,034036E+09	1,287289E+10
-250	2,919555E+09	2,919521E+09	3,516994E+09	3,517009E+09	5,839076E+09	7,034003E+09	1,287308E+10
-249	2,919477E+09	2,919461E+09	3,517014E+09	3,516965E+09	5,838937E+09	7,033979E+09	1,287292E+10
-248	2,919374E+09	2,919458E+09	3,516990E+09	3,517022E+09	5,838832E+09	7,034012E+09	1,287284E+10
-247	2,919532E+09	2,919533E+09	3,517004E+09	3,516993E+09	5,839065E+09	7,033998E+09	1,287306E+10
-246	2,919403E+09	2,919422E+09	3,517052E+09	3,516985E+09	5,838826E+09	7,034037E+09	1,287286E+10
-245	2,919447E+09	2,919478E+09	3,517025E+09	3,517022E+09	5,838925E+09	7,034046E+09	1,287297E+10
-244	2,919579E+09	2,919525E+09	3,517027E+09	3,516996E+09	5,839104E+09	7,034023E+09	1,287313E+10
-243	2,919431E+09	2,919477E+09	3,517004E+09	3,517049E+09	5,838908E+09	7,034053E+09	1,287296E+10
-242	2,919584E+09	2,919600E+09	3,516998E+09	3,517046E+09	5,839183E+09	7,034044E+09	1,287323E+10
-241	2,919613E+09	2,919586E+09	3,517037E+09	3,516977E+09	5,839199E+09	7,034015E+09	1,287321E+10
-240	2,919523E+09	2,919561E+09	3,517022E+09	3,517019E+09	5,839084E+09	7,034041E+09	1,287313E+10
-239	2,919711E+09	2,919678E+09	3,517028E+09	3,517015E+09	5,839389E+09	7,034043E+09	1,287343E+10
-238	2,919595E+09	2,919600E+09	3,517063E+09	3,517002E+09	5,839195E+09	7,034065E+09	1,287326E+10
-237	2,919553E+09	2,919637E+09	3,517022E+09	3,517053E+09	5,839190E+09	7,034074E+09	1,287326E+10
-236	2,919684E+09	2,919681E+09	3,517030E+09	3,517025E+09	5,839365E+09	7,034055E+09	1,287342E+10
-235	2,919511E+09	2,919543E+09	3,517036E+09	3,517036E+09	5,839054E+09	7,034072E+09	1,287313E+10
-234	2,919597E+09	2,919582E+09	3,517027E+09	3,517024E+09	5,839179E+09	7,034051E+09	1,287323E+10
-233	2,919634E+09	2,919557E+09	3,517036E+09	3,516970E+09	5,839191E+09	7,034007E+09	1,287320E+10
-232	2,919463E+09	2,919484E+09	3,516983E+09	3,517014E+09	5,838947E+09	7,033997E+09	1,287294E+10
-231	2,919592E+09	2,919595E+09	3,516968E+09	3,517020E+09	5,839187E+09	7,033988E+09	1,287318E+10
-230	2,919499E+09	2,919515E+09	3,517025E+09	3,516970E+09	5,839015E+09	7,033994E+09	1,287301E+10
-229	2,919422E+09	2,919501E+09	3,517003E+09	3,516994E+09	5,838923E+09	7,033998E+09	1,287292E+10
-228	2,919598E+09	2,919572E+09	3,517023E+09	3,516982E+09	5,839170E+09	7,034006E+09	1,287318E+10
-227	2,919463E+09	2,919462E+09	3,517039E+09	3,517001E+09	5,838925E+09	7,034040E+09	1,287296E+10
-226	2,919517E+09	2,919537E+09	3,517016E+09	3,517031E+09	5,839054E+09	7,034047E+09	1,287310E+10
-225	2,919625E+09	2,919608E+09	3,517023E+09	3,517010E+09	5,839233E+09	7,034033E+09	1,287327E+10
-224	2,919492E+09	2,919544E+09	3,516992E+09	3,517032E+09	5,839036E+09	7,034024E+09	1,287306E+10
-223	2,919660E+09	2,919665E+09	3,516997E+09	3,517034E+09	5,839325E+09	7,034031E+09	1,287336E+10
-222	2,919670E+09	2,919639E+09	3,517061E+09	3,516977E+09	5,839310E+09	7,034037E+09	1,287335E+10
-221	2,919581E+09	2,919620E+09	3,517022E+09	3,517009E+09	5,839201E+09	7,034031E+09	1,287323E+10
-220	2,919751E+09	2,919746E+09	3,517024E+09	3,517029E+09	5,839498E+09	7,034053E+09	1,287355E+10
-219	2,919625E+09	2,919652E+09	3,517043E+09	3,517026E+09	5,839277E+09	7,034069E+09	1,287335E+10
-218	2,919610E+09	2,919665E+09	3,517029E+09	3,517040E+09	5,839275E+09	7,034068E+09	1,287334E+10
-217	2,919737E+09	2,919711E+09	3,517042E+09	3,517007E+09	5,839448E+09	7,034049E+09	1,287350E+10
-216	2,919579E+09	2,919562E+09	3,517017E+09	3,517004E+09	5,839141E+09	7,034020E+09	1,287316E+10
-215	2,919660E+09	2,919634E+09	3,516998E+09	3,517024E+09	5,839294E+09	7,034022E+09	1,287332E+10
-214	2,919660E+09	2,919626E+09	3,517025E+09	3,516984E+09	5,839286E+09	7,034009E+09	1,287329E+10
-213	2,919490E+09	2,919557E+09	3,516976E+09	3,517001E+09	5,839046E+09	7,033977E+09	1,287302E+10
-212	2,919625E+09	2,919658E+09	3,516992E+09	3,517010E+09	5,839283E+09	7,034002E+09	1,287329E+10
-211	2,919542E+09	2,919547E+09	3,517042E+09	3,516972E+09	5,839089E+09	7,034014E+09	1,287310E+10
-210	2,919491E+09	2,919521E+09	3,517033E+09	3,516991E+09	5,839011E+09	7,034024E+09	1,287304E+10
-209	2,919649E+09	2,919620E+09	3,517031E+09	3,517003E+09	5,839270E+09	7,034034E+09	1,287330E+10
-208	2,919516E+09	2,919515E+09	3,516998E+09	3,517015E+09	5,839031E+09	7,034013E+09	1,287304E+10

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	2,919581E+09	2,919614E+09	3,516976E+09	3,517049E+09	5,839195E+09	7,034025E+09	1,287322E+10
-206	2,919682E+09	2,919670E+09	3,517018E+09	3,517001E+09	5,839352E+09	7,034019E+09	1,287337E+10
-205	2,919566E+09	2,919600E+09	3,516994E+09	3,516984E+09	5,839166E+09	7,033978E+09	1,287314E+10
-204	2,919735E+09	2,919730E+09	3,517013E+09	3,517005E+09	5,839464E+09	7,034018E+09	1,287348E+10
-203	2,919723E+09	2,919697E+09	3,517057E+09	3,516984E+09	5,839420E+09	7,034040E+09	1,287346E+10
-202	2,919633E+09	2,919681E+09	3,517033E+09	3,517017E+09	5,839314E+09	7,034050E+09	1,287336E+10
-201	2,919778E+09	2,919813E+09	3,517037E+09	3,517044E+09	5,839592E+09	7,034080E+09	1,287367E+10
-200	2,919671E+09	2,919686E+09	3,517035E+09	3,517021E+09	5,839358E+09	7,034056E+09	1,287341E+10
-199	2,919679E+09	2,919699E+09	3,517019E+09	3,517040E+09	5,839378E+09	7,034060E+09	1,287344E+10
-198	2,919791E+09	2,919739E+09	3,517045E+09	3,517010E+09	5,839530E+09	7,034055E+09	1,287359E+10
-197	2,919632E+09	2,919614E+09	3,516995E+09	3,516989E+09	5,839246E+09	7,033983E+09	1,287323E+10
-196	2,919697E+09	2,919711E+09	3,516978E+09	3,517023E+09	5,839409E+09	7,034001E+09	1,287341E+10
-195	2,919684E+09	2,919687E+09	3,517011E+09	3,516990E+09	5,839371E+09	7,034001E+09	1,287337E+10
-194	2,919542E+09	2,919593E+09	3,517002E+09	3,516980E+09	5,839135E+09	7,033982E+09	1,287312E+10
-193	2,919664E+09	2,919694E+09	3,517026E+09	3,516996E+09	5,839358E+09	7,034022E+09	1,287338E+10
-192	2,919602E+09	2,919570E+09	3,517038E+09	3,516968E+09	5,839173E+09	7,034005E+09	1,287318E+10
-191	2,919557E+09	2,919570E+09	3,517004E+09	3,517013E+09	5,839126E+09	7,034016E+09	1,287314E+10
-190	2,919688E+09	2,919685E+09	3,517014E+09	3,517029E+09	5,839373E+09	7,034044E+09	1,287342E+10
-189	2,919572E+09	2,919591E+09	3,516975E+09	3,516997E+09	5,839163E+09	7,033972E+09	1,287314E+10
-188	2,919646E+09	2,919688E+09	3,516979E+09	3,517023E+09	5,839334E+09	7,034002E+09	1,287334E+10
-187	2,919748E+09	2,919724E+09	3,517030E+09	3,516986E+09	5,839472E+09	7,034015E+09	1,287349E+10
-186	2,919649E+09	2,919643E+09	3,517025E+09	3,516966E+09	5,839292E+09	7,033991E+09	1,287328E+10
-185	2,919775E+09	2,919799E+09	3,517033E+09	3,517016E+09	5,839574E+09	7,034049E+09	1,287362E+10
-184	2,919763E+09	2,919758E+09	3,517034E+09	3,517004E+09	5,839521E+09	7,034038E+09	1,287356E+10
-183	2,919683E+09	2,919740E+09	3,517011E+09	3,517041E+09	5,839422E+09	7,034053E+09	1,287348E+10
-182	2,919824E+09	2,919849E+09	3,517041E+09	3,517050E+09	5,839673E+09	7,034091E+09	1,287376E+10
-181	2,919743E+09	2,919719E+09	3,517022E+09	3,516988E+09	5,839461E+09	7,034010E+09	1,287347E+10
-180	2,919751E+09	2,919750E+09	3,517005E+09	3,517022E+09	5,839501E+09	7,034026E+09	1,287353E+10
-179	2,919838E+09	2,919796E+09	3,517020E+09	3,517013E+09	5,839634E+09	7,034033E+09	1,287367E+10
-178	2,919677E+09	2,919679E+09	3,516998E+09	3,516979E+09	5,839357E+09	7,033977E+09	1,287333E+10
-177	2,919714E+09	2,919784E+09	3,517004E+09	3,517013E+09	5,839497E+09	7,034017E+09	1,287351E+10
-176	2,919720E+09	2,919719E+09	3,517021E+09	3,516977E+09	5,839439E+09	7,033998E+09	1,287344E+10
-175	2,919599E+09	2,919619E+09	3,517014E+09	3,516987E+09	5,839218E+09	7,034001E+09	1,287322E+10
-174	2,919709E+09	2,919713E+09	3,517036E+09	3,517016E+09	5,839422E+09	7,034052E+09	1,287347E+10
-173	2,919652E+09	2,919614E+09	3,517006E+09	3,516973E+09	5,839267E+09	7,033979E+09	1,287325E+10
-172	2,919610E+09	2,919647E+09	3,516964E+09	3,517023E+09	5,839257E+09	7,033987E+09	1,287324E+10
-171	2,919742E+09	2,919745E+09	3,516986E+09	3,517027E+09	5,839487E+09	7,034014E+09	1,287350E+10
-170	2,919657E+09	2,919643E+09	3,516989E+09	3,516955E+09	5,839300E+09	7,033945E+09	1,287324E+10
-169	2,919712E+09	2,919752E+09	3,517009E+09	3,516984E+09	5,839464E+09	7,033992E+09	1,287346E+10
-168	2,919816E+09	2,919777E+09	3,517028E+09	3,516972E+09	5,839593E+09	7,034001E+09	1,287359E+10
-167	2,919707E+09	2,919718E+09	3,517018E+09	3,516992E+09	5,839425E+09	7,034010E+09	1,287343E+10
-166	2,919799E+09	2,919869E+09	3,517039E+09	3,517053E+09	5,839668E+09	7,034092E+09	1,287376E+10
-165	2,919806E+09	2,919820E+09	3,517027E+09	3,517008E+09	5,839626E+09	7,034035E+09	1,287366E+10
-164	2,919747E+09	2,919795E+09	3,517009E+09	3,517037E+09	5,839541E+09	7,034046E+09	1,287359E+10
-163	2,919891E+09	2,919878E+09	3,517039E+09	3,517047E+09	5,839769E+09	7,034086E+09	1,287386E+10
-162	2,919828E+09	2,919754E+09	3,517026E+09	3,516968E+09	5,839581E+09	7,033995E+09	1,287358E+10
-161	2,919789E+09	2,919818E+09	3,517002E+09	3,517013E+09	5,839608E+09	7,034015E+09	1,287362E+10
-160	2,919871E+09	2,919858E+09	3,516993E+09	3,517012E+09	5,839729E+09	7,034006E+09	1,287373E+10
-159	2,919718E+09	2,919731E+09	3,516991E+09	3,516979E+09	5,839449E+09	7,033970E+09	1,287342E+10

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							
-158	2,919737E+09	2,919809E+09	3,517030E+09	3,517009E+09	5,839546E+09	7,034039E+09	1,287358E+10
-157	2,919770E+09	2,919742E+09	3,517022E+09	3,516955E+09	5,839512E+09	7,033978E+09	1,287349E+10
-156	2,919657E+09	2,919659E+09	3,516997E+09	3,516991E+09	5,839317E+09	7,033987E+09	1,287330E+10
-155	2,919755E+09	2,919760E+09	3,517007E+09	3,517040E+09	5,839515E+09	7,034047E+09	1,287356E+10
-154	2,919717E+09	2,919677E+09	3,516991E+09	3,516968E+09	5,839394E+09	7,033959E+09	1,287335E+10
-153	2,919655E+09	2,919727E+09	3,516973E+09	3,517001E+09	5,839382E+09	7,033974E+09	1,287336E+10
-152	2,919807E+09	2,919801E+09	3,516986E+09	3,517002E+09	5,839608E+09	7,033988E+09	1,287360E+10
-151	2,919734E+09	2,919699E+09	3,517006E+09	3,516947E+09	5,839433E+09	7,033953E+09	1,287339E+10
-150	2,919756E+09	2,919806E+09	3,517036E+09	3,517001E+09	5,839562E+09	7,034037E+09	1,287360E+10
-149	2,919858E+09	2,919846E+09	3,517015E+09	3,516989E+09	5,839704E+09	7,034004E+09	1,287371E+10
-148	2,919753E+09	2,919798E+09	3,516996E+09	3,517021E+09	5,839551E+09	7,034017E+09	1,287357E+10
-147	2,919850E+09	2,919913E+09	3,517028E+09	3,517069E+09	5,839763E+09	7,034097E+09	1,287386E+10
-146	2,919893E+09	2,919852E+09	3,517035E+09	3,516982E+09	5,839745E+09	7,034017E+09	1,287376E+10
-145	2,919822E+09	2,919845E+09	3,517017E+09	3,517004E+09	5,839667E+09	7,034021E+09	1,287369E+10
-144	2,919963E+09	2,919920E+09	3,517010E+09	3,517028E+09	5,839883E+09	7,034038E+09	1,287392E+10
-143	2,919881E+09	2,919825E+09	3,517007E+09	3,516970E+09	5,839706E+09	7,033977E+09	1,287368E+10
-142	2,919803E+09	2,919886E+09	3,517011E+09	3,517019E+09	5,839689E+09	7,034030E+09	1,287372E+10
-141	2,919891E+09	2,919909E+09	3,516997E+09	3,516996E+09	5,839801E+09	7,033993E+09	1,287379E+10
-140	2,919760E+09	2,919775E+09	3,517003E+09	3,516978E+09	5,839534E+09	7,033981E+09	1,287352E+10
-139	2,919781E+09	2,919819E+09	3,517039E+09	3,517022E+09	5,839600E+09	7,034061E+09	1,287366E+10
-138	2,919837E+09	2,919765E+09	3,517023E+09	3,516958E+09	5,839602E+09	7,033981E+09	1,287358E+10
-137	2,919698E+09	2,919727E+09	3,516976E+09	3,516995E+09	5,839425E+09	7,033972E+09	1,287340E+10
-136	2,919805E+09	2,919818E+09	3,516962E+09	3,517041E+09	5,839623E+09	7,034003E+09	1,287363E+10
-135	2,919784E+09	2,919742E+09	3,516979E+09	3,516954E+09	5,839526E+09	7,033932E+09	1,287346E+10
-134	2,919707E+09	2,919779E+09	3,516999E+09	3,516978E+09	5,839486E+09	7,033977E+09	1,287346E+10
-133	2,919870E+09	2,919855E+09	3,516994E+09	3,516972E+09	5,839725E+09	7,033967E+09	1,287369E+10
-132	2,919796E+09	2,919774E+09	3,517004E+09	3,516957E+09	5,839570E+09	7,033961E+09	1,287353E+10
-131	2,919793E+09	2,919870E+09	3,517035E+09	3,517036E+09	5,839663E+09	7,034071E+09	1,287373E+10
-130	2,919917E+09	2,919911E+09	3,517021E+09	3,517000E+09	5,839828E+09	7,034022E+09	1,287385E+10
-129	2,919805E+09	2,919863E+09	3,517010E+09	3,517013E+09	5,839668E+09	7,034022E+09	1,287369E+10
-128	2,919928E+09	2,919946E+09	3,517018E+09	3,517058E+09	5,839874E+09	7,034076E+09	1,287395E+10
-127	2,919984E+09	2,919891E+09	3,517029E+09	3,516970E+09	5,839875E+09	7,033998E+09	1,287387E+10
-126	2,919869E+09	2,919895E+09	3,517019E+09	3,517005E+09	5,839764E+09	7,034024E+09	1,287379E+10
-125	2,919995E+09	2,919992E+09	3,516981E+09	3,517022E+09	5,839987E+09	7,034003E+09	1,287399E+10
-124	2,919912E+09	2,919904E+09	3,516986E+09	3,516976E+09	5,839815E+09	7,033962E+09	1,287378E+10
-123	2,919829E+09	2,919920E+09	3,517022E+09	3,517021E+09	5,839749E+09	7,034043E+09	1,287379E+10
-122	2,919949E+09	2,919930E+09	3,517017E+09	3,516972E+09	5,839879E+09	7,033989E+09	1,287387E+10
-121	2,919809E+09	2,919809E+09	3,517016E+09	3,516962E+09	5,839619E+09	7,033978E+09	1,287360E+10
-120	2,919837E+09	2,919847E+09	3,517008E+09	3,517031E+09	5,839684E+09	7,034038E+09	1,287372E+10
-119	2,919891E+09	2,919824E+09	3,516996E+09	3,516972E+09	5,839715E+09	7,033968E+09	1,287368E+10
-118	2,919728E+09	2,919794E+09	3,516977E+09	3,516999E+09	5,839522E+09	7,033976E+09	1,287350E+10
-117	2,919850E+09	2,919880E+09	3,516957E+09	3,517013E+09	5,839730E+09	7,033970E+09	1,287370E+10
-116	2,919848E+09	2,919809E+09	3,516988E+09	3,516940E+09	5,839657E+09	7,033928E+09	1,287359E+10
-115	2,919765E+09	2,919816E+09	3,517024E+09	3,516984E+09	5,839581E+09	7,034008E+09	1,287359E+10
-114	2,919932E+09	2,919906E+09	3,517008E+09	3,516979E+09	5,839838E+09	7,033987E+09	1,287382E+10
-113	2,919837E+09	2,919857E+09	3,517005E+09	3,516975E+09	5,839694E+09	7,033980E+09	1,287367E+10
-112	2,919849E+09	2,919918E+09	3,517004E+09	3,517053E+09	5,839768E+09	7,034057E+09	1,287382E+10
-111	2,919992E+09	2,919956E+09	3,517016E+09	3,516995E+09	5,839949E+09	7,034010E+09	1,287396E+10
-110	2,919875E+09	2,919906E+09	3,517019E+09	3,516994E+09	5,839781E+09	7,034013E+09	1,287379E+10

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							
-109	2,920000E+09	2,919993E+09	3,516996E+09	3,517027E+09	5,839994E+09	7,034023E+09	1,287402E+10
-108	2,920047E+09	2,919975E+09	3,517000E+09	3,516970E+09	5,840023E+09	7,033970E+09	1,287399E+10
-107	2,919901E+09	2,919964E+09	3,517012E+09	3,517019E+09	5,839866E+09	7,034030E+09	1,287390E+10
-106	2,920032E+09	2,920057E+09	3,516995E+09	3,517011E+09	5,840089E+09	7,034006E+09	1,287409E+10
-105	2,919942E+09	2,919964E+09	3,517019E+09	3,516959E+09	5,839906E+09	7,033977E+09	1,287388E+10
-104	2,919878E+09	2,919933E+09	3,517029E+09	3,517020E+09	5,839811E+09	7,034049E+09	1,287386E+10
-103	2,920012E+09	2,919947E+09	3,517025E+09	3,516981E+09	5,839958E+09	7,034006E+09	1,287396E+10
-102	2,919845E+09	2,919845E+09	3,517011E+09	3,516982E+09	5,839690E+09	7,033994E+09	1,287368E+10
-101	2,919873E+09	2,919903E+09	3,516962E+09	3,517036E+09	5,839775E+09	7,033998E+09	1,287377E+10
-100	2,919940E+09	2,919899E+09	3,516960E+09	3,516973E+09	5,839839E+09	7,033933E+09	1,287377E+10
-99	2,919778E+09	2,919837E+09	3,516987E+09	3,516984E+09	5,839615E+09	7,033971E+09	1,287359E+10
-98	2,919924E+09	2,919925E+09	3,516981E+09	3,516972E+09	5,839849E+09	7,033953E+09	1,287380E+10
-97	2,919908E+09	2,919872E+09	3,517011E+09	3,516916E+09	5,839780E+09	7,033927E+09	1,287371E+10
-96	2,919819E+09	2,919867E+09	3,517012E+09	3,517002E+09	5,839685E+09	7,034014E+09	1,287370E+10
-95	2,919983E+09	2,919973E+09	3,517001E+09	3,517001E+09	5,839956E+09	7,034003E+09	1,287396E+10
-94	2,919871E+09	2,919919E+09	3,517015E+09	3,516993E+09	5,839790E+09	7,034007E+09	1,287380E+10
-93	2,919908E+09	2,919970E+09	3,516991E+09	3,517042E+09	5,839877E+09	7,034034E+09	1,287391E+10
-92	2,920075E+09	2,920016E+09	3,517002E+09	3,516989E+09	5,840090E+09	7,033991E+09	1,287408E+10
-91	2,919947E+09	2,919947E+09	3,517022E+09	3,516994E+09	5,839894E+09	7,034017E+09	1,287391E+10
-90	2,920065E+09	2,920061E+09	3,516987E+09	3,517015E+09	5,840126E+09	7,034001E+09	1,287413E+10
-89	2,920081E+09	2,920069E+09	3,516997E+09	3,516962E+09	5,840150E+09	7,033959E+09	1,287411E+10
-88	2,919941E+09	2,920013E+09	3,517002E+09	3,517021E+09	5,839954E+09	7,034023E+09	1,287398E+10
-87	2,920081E+09	2,920087E+09	3,517016E+09	3,516998E+09	5,840169E+09	7,034014E+09	1,287418E+10
-86	2,919984E+09	2,919986E+09	3,517048E+09	3,516954E+09	5,839970E+09	7,034002E+09	1,287397E+10
-85	2,919929E+09	2,919954E+09	3,517009E+09	3,517014E+09	5,839883E+09	7,034023E+09	1,287391E+10
-84	2,920062E+09	2,920006E+09	3,516987E+09	3,517002E+09	5,840067E+09	7,033988E+09	1,287406E+10
-83	2,919883E+09	2,919898E+09	3,516994E+09	3,516998E+09	5,839781E+09	7,033992E+09	1,287377E+10
-82	2,919923E+09	2,919963E+09	3,516957E+09	3,517012E+09	5,839886E+09	7,033969E+09	1,287385E+10
-81	2,919991E+09	2,919972E+09	3,516982E+09	3,516938E+09	5,839963E+09	7,033920E+09	1,287388E+10
-80	2,919845E+09	2,919867E+09	3,516994E+09	3,516970E+09	5,839712E+09	7,033963E+09	1,287368E+10
-79	2,919983E+09	2,919963E+09	3,517002E+09	3,516971E+09	5,839946E+09	7,033973E+09	1,287392E+10
-78	2,919938E+09	2,919935E+09	3,517021E+09	3,516944E+09	5,839873E+09	7,033965E+09	1,287384E+10
-77	2,919852E+09	2,919928E+09	3,516978E+09	3,517022E+09	5,839779E+09	7,034000E+09	1,287378E+10
-76	2,920039E+09	2,920043E+09	3,516972E+09	3,517019E+09	5,840082E+09	7,033992E+09	1,287407E+10
-75	2,919943E+09	2,919956E+09	3,517016E+09	3,516987E+09	5,839899E+09	7,034003E+09	1,287390E+10
-74	2,920002E+09	2,920017E+09	3,516989E+09	3,517005E+09	5,840019E+09	7,033994E+09	1,287401E+10
-73	2,920151E+09	2,920096E+09	3,517003E+09	3,516959E+09	5,840247E+09	7,033962E+09	1,287421E+10
-72	2,920009E+09	2,920015E+09	3,517003E+09	3,516996E+09	5,840024E+09	7,033999E+09	1,287402E+10
-71	2,920109E+09	2,920136E+09	3,516999E+09	3,517013E+09	5,840244E+09	7,034012E+09	1,287426E+10
-70	2,920103E+09	2,920132E+09	3,517031E+09	3,516967E+09	5,840235E+09	7,033999E+09	1,287423E+10
-69	2,919977E+09	2,920046E+09	3,517011E+09	3,517016E+09	5,840023E+09	7,034027E+09	1,287405E+10
-68	2,920138E+09	2,920121E+09	3,517012E+09	3,517012E+09	5,840259E+09	7,034025E+09	1,287428E+10
-67	2,920035E+09	2,919999E+09	3,517048E+09	3,516979E+09	5,840034E+09	7,034027E+09	1,287406E+10
-66	2,919984E+09	2,920002E+09	3,516978E+09	3,517019E+09	5,839986E+09	7,033996E+09	1,287398E+10
-65	2,920102E+09	2,920081E+09	3,516960E+09	3,516988E+09	5,840183E+09	7,033948E+09	1,287413E+10
-64	2,919936E+09	2,919941E+09	3,516970E+09	3,516982E+09	5,839878E+09	7,033952E+09	1,287383E+10
-63	2,919986E+09	2,920003E+09	3,516974E+09	3,516970E+09	5,839989E+09	7,033943E+09	1,287393E+10
-62	2,920036E+09	2,920016E+09	3,517011E+09	3,516917E+09	5,840052E+09	7,033928E+09	1,287398E+10
-61	2,919889E+09	2,919913E+09	3,516984E+09	3,516969E+09	5,839802E+09	7,033953E+09	1,287376E+10

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	2,920022E+09	2,920038E+09	3,516977E+09	3,517003E+09	5,840060E+09	7,033981E+09	1,287404E+10
-59	2,919974E+09	2,919990E+09	3,517022E+09	3,516977E+09	5,839964E+09	7,034000E+09	1,287396E+10
-58	2,919914E+09	2,919986E+09	3,516974E+09	3,517013E+09	5,839901E+09	7,033986E+09	1,287389E+10
-57	2,920113E+09	2,920109E+09	3,516985E+09	3,516991E+09	5,840221E+09	7,033976E+09	1,287420E+10
-56	2,920037E+09	2,919993E+09	3,517010E+09	3,516975E+09	5,840030E+09	7,033985E+09	1,287401E+10
-55	2,920084E+09	2,920072E+09	3,516996E+09	3,516990E+09	5,840155E+09	7,033987E+09	1,287414E+10
-54	2,920190E+09	2,920180E+09	3,517008E+09	3,516970E+09	5,840370E+09	7,033977E+09	1,287435E+10
-53	2,920042E+09	2,920086E+09	3,516981E+09	3,517001E+09	5,840128E+09	7,033983E+09	1,287411E+10
-52	2,920148E+09	2,920201E+09	3,516993E+09	3,517023E+09	5,840349E+09	7,034016E+09	1,287437E+10
-51	2,920155E+09	2,920154E+09	3,517056E+09	3,516972E+09	5,840309E+09	7,034028E+09	1,287434E+10
-50	2,920047E+09	2,920069E+09	3,517008E+09	3,516999E+09	5,840116E+09	7,034006E+09	1,287412E+10
-49	2,920196E+09	2,920175E+09	3,517001E+09	3,517004E+09	5,840371E+09	7,034004E+09	1,287437E+10
-48	2,920091E+09	2,920044E+09	3,517003E+09	3,516988E+09	5,840136E+09	7,033992E+09	1,287413E+10
-47	2,920029E+09	2,920060E+09	3,516966E+09	3,517003E+09	5,840088E+09	7,033969E+09	1,287406E+10
-46	2,920131E+09	2,920146E+09	3,516977E+09	3,516971E+09	5,840277E+09	7,033948E+09	1,287422E+10
-45	2,919979E+09	2,919982E+09	3,516973E+09	3,516955E+09	5,839962E+09	7,033929E+09	1,287389E+10
-44	2,920036E+09	2,920051E+09	3,516981E+09	3,516970E+09	5,840087E+09	7,033951E+09	1,287404E+10
-43	2,920077E+09	2,920048E+09	3,517028E+09	3,516944E+09	5,840125E+09	7,033972E+09	1,287410E+10
-42	2,919931E+09	2,919972E+09	3,516966E+09	3,516985E+09	5,839904E+09	7,033951E+09	1,287385E+10
-41	2,920065E+09	2,920112E+09	3,516966E+09	3,517007E+09	5,840177E+09	7,033973E+09	1,287415E+10
-40	2,920046E+09	2,920026E+09	3,517004E+09	3,516976E+09	5,840072E+09	7,033980E+09	1,287405E+10
-39	2,920006E+09	2,920026E+09	3,516984E+09	3,516979E+09	5,840032E+09	7,033962E+09	1,287399E+10
-38	2,920187E+09	2,920167E+09	3,516998E+09	3,516972E+09	5,840354E+09	7,033970E+09	1,287432E+10
-37	2,920101E+09	2,920063E+09	3,516988E+09	3,516966E+09	5,840164E+09	7,033954E+09	1,287412E+10
-36	2,920132E+09	2,920170E+09	3,516975E+09	3,517007E+09	5,840302E+09	7,033982E+09	1,287428E+10
-35	2,920222E+09	2,920246E+09	3,517026E+09	3,516993E+09	5,840468E+09	7,034019E+09	1,287449E+10
-34	2,920091E+09	2,920147E+09	3,516996E+09	3,516996E+09	5,840237E+09	7,033992E+09	1,287423E+10
-33	2,920203E+09	2,920249E+09	3,517014E+09	3,517007E+09	5,840452E+09	7,034021E+09	1,287447E+10
-32	2,920225E+09	2,920165E+09	3,517048E+09	3,516983E+09	5,840390E+09	7,034031E+09	1,287442E+10
-31	2,920113E+09	2,920102E+09	3,516996E+09	3,516997E+09	5,840214E+09	7,033993E+09	1,287421E+10
-30	2,920226E+09	2,920235E+09	3,516979E+09	3,517013E+09	5,840462E+09	7,033991E+09	1,287445E+10
-29	2,920125E+09	2,920101E+09	3,516962E+09	3,516977E+09	5,840227E+09	7,033939E+09	1,287417E+10
-28	2,920076E+09	2,920119E+09	3,516950E+09	3,516982E+09	5,840194E+09	7,033932E+09	1,287413E+10
-27	2,920179E+09	2,920172E+09	3,517005E+09	3,516953E+09	5,840351E+09	7,033958E+09	1,287431E+10
-26	2,920037E+09	2,920024E+09	3,516981E+09	3,516933E+09	5,840061E+09	7,033914E+09	1,287398E+10
-25	2,920075E+09	2,920116E+09	3,516988E+09	3,516968E+09	5,840191E+09	7,033956E+09	1,287415E+10
-24	2,920119E+09	2,920096E+09	3,517010E+09	3,516974E+09	5,840215E+09	7,033984E+09	1,287420E+10
-23	2,919985E+09	2,920024E+09	3,516969E+09	3,516987E+09	5,840009E+09	7,033956E+09	1,287396E+10
-22	2,920116E+09	2,920169E+09	3,516982E+09	3,517005E+09	5,840285E+09	7,033987E+09	1,287427E+10
-21	2,920122E+09	2,920072E+09	3,516989E+09	3,516961E+09	5,840193E+09	7,033950E+09	1,287414E+10
-20	2,920087E+09	2,920092E+09	3,516971E+09	3,516979E+09	5,840179E+09	7,033949E+09	1,287413E+10
-19	2,920247E+09	2,920231E+09	3,517004E+09	3,516990E+09	5,840478E+09	7,033995E+09	1,287447E+10
-18	2,920150E+09	2,920152E+09	3,516968E+09	3,516968E+09	5,840301E+09	7,033936E+09	1,287424E+10
-17	2,920171E+09	2,920258E+09	3,516981E+09	3,516999E+09	5,840429E+09	7,033980E+09	1,287441E+10
-16	2,920283E+09	2,920280E+09	3,517027E+09	3,516991E+09	5,840563E+09	7,034018E+09	1,287458E+10
-15	2,920166E+09	2,920168E+09	3,517015E+09	3,516972E+09	5,840333E+09	7,033988E+09	1,287432E+10
-14	2,920259E+09	2,920286E+09	3,517023E+09	3,517004E+09	5,840546E+09	7,034027E+09	1,287457E+10
-13	2,920277E+09	2,920211E+09	3,517005E+09	3,516985E+09	5,840487E+09	7,033991E+09	1,287448E+10
-12	2,920156E+09	2,920178E+09	3,516955E+09	3,517007E+09	5,840334E+09	7,033962E+09	1,287430E+10

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	2,920259E+09	2,920287E+09	3,516983E+09	3,517014E+09	5,840546E+09	7,033998E+09	1,287454E+10
-10	2,920169E+09	2,920159E+09	3,516968E+09	3,516945E+09	5,840328E+09	7,033913E+09	1,287424E+10
-9	2,920123E+09	2,920171E+09	3,516980E+09	3,516952E+09	5,840294E+09	7,033932E+09	1,287423E+10
-8	2,920231E+09	2,920191E+09	3,517014E+09	3,516962E+09	5,840422E+09	7,033976E+09	1,287440E+10
-7	2,920085E+09	2,920063E+09	3,516989E+09	3,516946E+09	5,840148E+09	7,033935E+09	1,287408E+10
-6	2,920098E+09	2,920176E+09	3,516982E+09	3,516997E+09	5,840274E+09	7,033979E+09	1,287425E+10
-5	2,920160E+09	2,920144E+09	3,516976E+09	3,516984E+09	5,840303E+09	7,033961E+09	1,287426E+10
-4	2,920056E+09	2,920081E+09	3,516948E+09	3,516979E+09	5,840137E+09	7,033927E+09	1,287406E+10
-3	2,920193E+09	2,920202E+09	3,516991E+09	3,516995E+09	5,840395E+09	7,033986E+09	1,287438E+10
-2	2,920202E+09	2,920143E+09	3,516975E+09	3,516936E+09	5,840345E+09	7,033911E+09	1,287426E+10
-1	2,920148E+09	2,920187E+09	3,516965E+09	3,516962E+09	5,840334E+09	7,033927E+09	1,287426E+10
1	2,920292E+09	2,920301E+09	3,516996E+09	3,517003E+09	5,840593E+09	7,033999E+09	1,287459E+10
2	2,920202E+09	2,920217E+09	3,516996E+09	3,516959E+09	5,840419E+09	7,033954E+09	1,287437E+10
3	2,920211E+09	2,920310E+09	3,517017E+09	3,516998E+09	5,840520E+09	7,034015E+09	1,287454E+10
4	2,920343E+09	2,920306E+09	3,517024E+09	3,516992E+09	5,840649E+09	7,034016E+09	1,287466E+10
5	2,920238E+09	2,920209E+09	3,516994E+09	3,516987E+09	5,840447E+09	7,033980E+09	1,287443E+10
6	2,920309E+09	2,920325E+09	3,517008E+09	3,517030E+09	5,840634E+09	7,034038E+09	1,287467E+10
7	2,920321E+09	2,920286E+09	3,516962E+09	3,516979E+09	5,840606E+09	7,033941E+09	1,287455E+10
8	2,920200E+09	2,920252E+09	3,516949E+09	3,516976E+09	5,840452E+09	7,033924E+09	1,287438E+10
9	2,920312E+09	2,920317E+09	3,516990E+09	3,516992E+09	5,840629E+09	7,033982E+09	1,287461E+10
10	2,920233E+09	2,920188E+09	3,516999E+09	3,516910E+09	5,840420E+09	7,033909E+09	1,287433E+10
11	2,920156E+09	2,920217E+09	3,517004E+09	3,516955E+09	5,840373E+09	7,033959E+09	1,287433E+10
12	2,920259E+09	2,920239E+09	3,516987E+09	3,516985E+09	5,840498E+09	7,033972E+09	1,287447E+10
13	2,920120E+09	2,920130E+09	3,516962E+09	3,516977E+09	5,840250E+09	7,033939E+09	1,287419E+10
14	2,920140E+09	2,920216E+09	3,516990E+09	3,517019E+09	5,840357E+09	7,034009E+09	1,287437E+10
15	2,920226E+09	2,920196E+09	3,516965E+09	3,516961E+09	5,840422E+09	7,033926E+09	1,287435E+10
16	2,920135E+09	2,920142E+09	3,516957E+09	3,516946E+09	5,840276E+09	7,033903E+09	1,287418E+10
17	2,920270E+09	2,920246E+09	3,516984E+09	3,516992E+09	5,840516E+09	7,033976E+09	1,287449E+10
18	2,920264E+09	2,920213E+09	3,516977E+09	3,516927E+09	5,840477E+09	7,033904E+09	1,287438E+10
19	2,920177E+09	2,920274E+09	3,516976E+09	3,516972E+09	5,840451E+09	7,033948E+09	1,287440E+10
20	2,920331E+09	2,920356E+09	3,516985E+09	3,517004E+09	5,840687E+09	7,033989E+09	1,287468E+10
21	2,920269E+09	2,920266E+09	3,516998E+09	3,516958E+09	5,840534E+09	7,033956E+09	1,287449E+10
22	2,920280E+09	2,920330E+09	3,517034E+09	3,517008E+09	5,840609E+09	7,034042E+09	1,287465E+10
23	2,920409E+09	2,920360E+09	3,516997E+09	3,516986E+09	5,840769E+09	7,033983E+09	1,287475E+10
24	2,920296E+09	2,920291E+09	3,516971E+09	3,516980E+09	5,840587E+09	7,033951E+09	1,287454E+10
25	2,920357E+09	2,920381E+09	3,516984E+09	3,517036E+09	5,840738E+09	7,034020E+09	1,287476E+10
26	2,920372E+09	2,920345E+09	3,516979E+09	3,516950E+09	5,840717E+09	7,033929E+09	1,287465E+10
27	2,920236E+09	2,920305E+09	3,516986E+09	3,516955E+09	5,840542E+09	7,033941E+09	1,287448E+10
28	2,920351E+09	2,920343E+09	3,516998E+09	3,516985E+09	5,840694E+09	7,033982E+09	1,287468E+10
29	2,920280E+09	2,920230E+09	3,516997E+09	3,516932E+09	5,840511E+09	7,033929E+09	1,287444E+10
30	2,920182E+09	2,920247E+09	3,517001E+09	3,516998E+09	5,840429E+09	7,034000E+09	1,287443E+10
31	2,920289E+09	2,920298E+09	3,516951E+09	3,516996E+09	5,840587E+09	7,033947E+09	1,287453E+10
32	2,920178E+09	2,920186E+09	3,516946E+09	3,516954E+09	5,840364E+09	7,033901E+09	1,287426E+10
33	2,920215E+09	2,920236E+09	3,516979E+09	3,516997E+09	5,840452E+09	7,033976E+09	1,287443E+10
34	2,920316E+09	2,920240E+09	3,516974E+09	3,516917E+09	5,840556E+09	7,033892E+09	1,287445E+10
35	2,920192E+09	2,920216E+09	3,516968E+09	3,516930E+09	5,840408E+09	7,033898E+09	1,287431E+10
36	2,920309E+09	2,920322E+09	3,516965E+09	3,516994E+09	5,840631E+09	7,033959E+09	1,287459E+10
37	2,920308E+09	2,920301E+09	3,516974E+09	3,516943E+09	5,840610E+09	7,033917E+09	1,287453E+10
38	2,920217E+09	2,920322E+09	3,517008E+09	3,516995E+09	5,840539E+09	7,034003E+09	1,287454E+10

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	2,920387E+09	2,920411E+09	3,516989E+09	3,516999E+09	5,840798E+09	7,033988E+09	1,287479E+10
40	2,920347E+09	2,920316E+09	3,517005E+09	3,516953E+09	5,840664E+09	7,033958E+09	1,287462E+10
41	2,920354E+09	2,920362E+09	3,517015E+09	3,517028E+09	5,840715E+09	7,034043E+09	1,287476E+10
42	2,920475E+09	2,920425E+09	3,516978E+09	3,516982E+09	5,840900E+09	7,033960E+09	1,287486E+10
43	2,920333E+09	2,920373E+09	3,516965E+09	3,516973E+09	5,840707E+09	7,033938E+09	1,287464E+10
44	2,920400E+09	2,920432E+09	3,516970E+09	3,517011E+09	5,840831E+09	7,033981E+09	1,287481E+10
45	2,920431E+09	2,920391E+09	3,516988E+09	3,516928E+09	5,840822E+09	7,033917E+09	1,287474E+10
46	2,920283E+09	2,920327E+09	3,517016E+09	3,516963E+09	5,840610E+09	7,033979E+09	1,287459E+10
47	2,920384E+09	2,920391E+09	3,516979E+09	3,516985E+09	5,840775E+09	7,033964E+09	1,287474E+10
48	2,920314E+09	2,920294E+09	3,516984E+09	3,516941E+09	5,840608E+09	7,033925E+09	1,287453E+10
49	2,920221E+09	2,920281E+09	3,516982E+09	3,517017E+09	5,840502E+09	7,033999E+09	1,287450E+10
50	2,920350E+09	2,920335E+09	3,516958E+09	3,516971E+09	5,840685E+09	7,033929E+09	1,287461E+10
51	2,920238E+09	2,920238E+09	3,516965E+09	3,516929E+09	5,840476E+09	7,033894E+09	1,287437E+10
52	2,920283E+09	2,920275E+09	3,516965E+09	3,516978E+09	5,840558E+09	7,033942E+09	1,287450E+10
53	2,920381E+09	2,920312E+09	3,516963E+09	3,516922E+09	5,840692E+09	7,033885E+09	1,287458E+10
54	2,920228E+09	2,920284E+09	3,516973E+09	3,516962E+09	5,840512E+09	7,033936E+09	1,287445E+10
55	2,920336E+09	2,920405E+09	3,516950E+09	3,516997E+09	5,840741E+09	7,033947E+09	1,287469E+10
56	2,920366E+09	2,920368E+09	3,516987E+09	3,516934E+09	5,840735E+09	7,033922E+09	1,287466E+10
57	2,920293E+09	2,920342E+09	3,517014E+09	3,516998E+09	5,840635E+09	7,034013E+09	1,287465E+10
58	2,920477E+09	2,920449E+09	3,516996E+09	3,516982E+09	5,840925E+09	7,033978E+09	1,287490E+10
59	2,920413E+09	2,920389E+09	3,516998E+09	3,516952E+09	5,840802E+09	7,033950E+09	1,287475E+10
60	2,920405E+09	2,920432E+09	3,516974E+09	3,517031E+09	5,840836E+09	7,034005E+09	1,287484E+10
61	2,920530E+09	2,920507E+09	3,516966E+09	3,516979E+09	5,841037E+09	7,033945E+09	1,287498E+10
62	2,920375E+09	2,920418E+09	3,516994E+09	3,516970E+09	5,840793E+09	7,033964E+09	1,287476E+10
63	2,920437E+09	2,920480E+09	3,516981E+09	3,516985E+09	5,840918E+09	7,033966E+09	1,287488E+10
64	2,920487E+09	2,920433E+09	3,517003E+09	3,516919E+09	5,840920E+09	7,033921E+09	1,287484E+10
65	2,920323E+09	2,920342E+09	3,517005E+09	3,516991E+09	5,840665E+09	7,033996E+09	1,287466E+10
66	2,920423E+09	2,920437E+09	3,516963E+09	3,516993E+09	5,840860E+09	7,033956E+09	1,287482E+10
67	2,920348E+09	2,920350E+09	3,516973E+09	3,516941E+09	5,840698E+09	7,033913E+09	1,287461E+10
68	2,920276E+09	2,920311E+09	3,516954E+09	3,516996E+09	5,840587E+09	7,033949E+09	1,287454E+10
69	2,920429E+09	2,920379E+09	3,516950E+09	3,516943E+09	5,840809E+09	7,033893E+09	1,287470E+10
70	2,920300E+09	2,920282E+09	3,516978E+09	3,516925E+09	5,840583E+09	7,033902E+09	1,287448E+10
71	2,920323E+09	2,920360E+09	3,516945E+09	3,516966E+09	5,840682E+09	7,033911E+09	1,287459E+10
72	2,920423E+09	2,920407E+09	3,516961E+09	3,516927E+09	5,840831E+09	7,033887E+09	1,287472E+10
73	2,920270E+09	2,920337E+09	3,516984E+09	3,516986E+09	5,840607E+09	7,033970E+09	1,287458E+10
74	2,920397E+09	2,920455E+09	3,516979E+09	3,516986E+09	5,840852E+09	7,033965E+09	1,287482E+10
75	2,920433E+09	2,920419E+09	3,517018E+09	3,516931E+09	5,840852E+09	7,033949E+09	1,287480E+10
76	2,920373E+09	2,920375E+09	3,516996E+09	3,517004E+09	5,840748E+09	7,034000E+09	1,287475E+10
77	2,920554E+09	2,920511E+09	3,516970E+09	3,516995E+09	5,841065E+09	7,033965E+09	1,287503E+10
78	2,920463E+09	2,920460E+09	3,516983E+09	3,516975E+09	5,840923E+09	7,033958E+09	1,287488E+10
79	2,920446E+09	2,920511E+09	3,516943E+09	3,517005E+09	5,840956E+09	7,033948E+09	1,287490E+10
80	2,920589E+09	2,920569E+09	3,516974E+09	3,516944E+09	5,841158E+09	7,033918E+09	1,287508E+10
81	2,920434E+09	2,920439E+09	3,517010E+09	3,516960E+09	5,840873E+09	7,033970E+09	1,287484E+10
82	2,920492E+09	2,920513E+09	3,516996E+09	3,516967E+09	5,841004E+09	7,033962E+09	1,287497E+10
83	2,920517E+09	2,920492E+09	3,517007E+09	3,516930E+09	5,841009E+09	7,033937E+09	1,287495E+10
84	2,920354E+09	2,920385E+09	3,516968E+09	3,517009E+09	5,840740E+09	7,033976E+09	1,287472E+10
85	2,920470E+09	2,920486E+09	3,516948E+09	3,516998E+09	5,840956E+09	7,033946E+09	1,287490E+10
86	2,920396E+09	2,920386E+09	3,516984E+09	3,516942E+09	5,840782E+09	7,033926E+09	1,287471E+10
87	2,920329E+09	2,920362E+09	3,516941E+09	3,516964E+09	5,840691E+09	7,033905E+09	1,287460E+10

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	2,920498E+09	2,920441E+09	3,516952E+09	3,516929E+09	5,840939E+09	7,033881E+09	1,287482E+10
89	2,920349E+09	2,920332E+09	3,516972E+09	3,516946E+09	5,840681E+09	7,033918E+09	1,287460E+10
90	2,920361E+09	2,920433E+09	3,516947E+09	3,516965E+09	5,840794E+09	7,033913E+09	1,287471E+10
91	2,920462E+09	2,920479E+09	3,516979E+09	3,516926E+09	5,840941E+09	7,033905E+09	1,287485E+10
92	2,920333E+09	2,920367E+09	3,516980E+09	3,516980E+09	5,840700E+09	7,033960E+09	1,287466E+10
93	2,920488E+09	2,920493E+09	3,516983E+09	3,516980E+09	5,840981E+09	7,033963E+09	1,287494E+10
94	2,920509E+09	2,920462E+09	3,517015E+09	3,516946E+09	5,840971E+09	7,033961E+09	1,287493E+10
95	2,920428E+09	2,920459E+09	3,516952E+09	3,516998E+09	5,840887E+09	7,033949E+09	1,287484E+10
96	2,920616E+09	2,920606E+09	3,516947E+09	3,516989E+09	5,841221E+09	7,033936E+09	1,287516E+10
97	2,920513E+09	2,920516E+09	3,516985E+09	3,516973E+09	5,841029E+09	7,033958E+09	1,287499E+10
98	2,920501E+09	2,920568E+09	3,516972E+09	3,516970E+09	5,841069E+09	7,033942E+09	1,287501E+10
99	2,920639E+09	2,920620E+09	3,517009E+09	3,516929E+09	5,841259E+09	7,033938E+09	1,287520E+10
100	2,920484E+09	2,920464E+09	3,517002E+09	3,516973E+09	5,840948E+09	7,033975E+09	1,287492E+10
101	2,920536E+09	2,920559E+09	3,516979E+09	3,516993E+09	5,841094E+09	7,033972E+09	1,287507E+10
102	2,920540E+09	2,920537E+09	3,516993E+09	3,516967E+09	5,841078E+09	7,033960E+09	1,287504E+10
103	2,920387E+09	2,920439E+09	3,516931E+09	3,516992E+09	5,840826E+09	7,033923E+09	1,287475E+10
104	2,920540E+09	2,920529E+09	3,516939E+09	3,516967E+09	5,841068E+09	7,033907E+09	1,287498E+10
105	2,920466E+09	2,920411E+09	3,516985E+09	3,516926E+09	5,840877E+09	7,033911E+09	1,287479E+10
106	2,920393E+09	2,920419E+09	3,516946E+09	3,516932E+09	5,840813E+09	7,033879E+09	1,287469E+10
107	2,920532E+09	2,920526E+09	3,516964E+09	3,516927E+09	5,841058E+09	7,033890E+09	1,287495E+10
108	2,920385E+09	2,920395E+09	3,516963E+09	3,516961E+09	5,840780E+09	7,033924E+09	1,287470E+10
109	2,920409E+09	2,920485E+09	3,516964E+09	3,516973E+09	5,840894E+09	7,033937E+09	1,287483E+10
110	2,920511E+09	2,920517E+09	3,517008E+09	3,516947E+09	5,841028E+09	7,033955E+09	1,287498E+10
111	2,920400E+09	2,920413E+09	3,516961E+09	3,516969E+09	5,840813E+09	7,033930E+09	1,287474E+10
112	2,920572E+09	2,920548E+09	3,516962E+09	3,516985E+09	5,841120E+09	7,033947E+09	1,287507E+10
113	2,920573E+09	2,920525E+09	3,516984E+09	3,516969E+09	5,841098E+09	7,033953E+09	1,287505E+10
114	2,920486E+09	2,920545E+09	3,516932E+09	3,516977E+09	5,841031E+09	7,033910E+09	1,287494E+10
115	2,920664E+09	2,920687E+09	3,516964E+09	3,516960E+09	5,841352E+09	7,033923E+09	1,287528E+10
116	2,920576E+09	2,920556E+09	3,516990E+09	3,516949E+09	5,841132E+09	7,033939E+09	1,287507E+10
117	2,920567E+09	2,920605E+09	3,516993E+09	3,516957E+09	5,841173E+09	7,033950E+09	1,287512E+10
118	2,920676E+09	2,920662E+09	3,517021E+09	3,516957E+09	5,841338E+09	7,033978E+09	1,287532E+10
119	2,920509E+09	2,920525E+09	3,516966E+09	3,516984E+09	5,841034E+09	7,033950E+09	1,287498E+10
120	2,920579E+09	2,920616E+09	3,516959E+09	3,517006E+09	5,841196E+09	7,033964E+09	1,287516E+10
121	2,920587E+09	2,920566E+09	3,516988E+09	3,516974E+09	5,841153E+09	7,033961E+09	1,287511E+10
122	2,920450E+09	2,920481E+09	3,516940E+09	3,516952E+09	5,840931E+09	7,033892E+09	1,287482E+10
123	2,920601E+09	2,920579E+09	3,516961E+09	3,516938E+09	5,841180E+09	7,033899E+09	1,287508E+10
124	2,920522E+09	2,920450E+09	3,516972E+09	3,516926E+09	5,840972E+09	7,033898E+09	1,287487E+10
125	2,920437E+09	2,920485E+09	3,516945E+09	3,516946E+09	5,840922E+09	7,033890E+09	1,287481E+10
126	2,920551E+09	2,920587E+09	3,516967E+09	3,516955E+09	5,841138E+09	7,033921E+09	1,287506E+10
127	2,920418E+09	2,920449E+09	3,516947E+09	3,516951E+09	5,840866E+09	7,033899E+09	1,287476E+10
128	2,920486E+09	2,920525E+09	3,516963E+09	3,516965E+09	5,841011E+09	7,033929E+09	1,287494E+10
129	2,920588E+09	2,920542E+09	3,517002E+09	3,516955E+09	5,841130E+09	7,033956E+09	1,287509E+10
130	2,920479E+09	2,920483E+09	3,516943E+09	3,516951E+09	5,840962E+09	7,033894E+09	1,287486E+10
131	2,920631E+09	2,920645E+09	3,516950E+09	3,516977E+09	5,841276E+09	7,033927E+09	1,287520E+10
132	2,920629E+09	2,920602E+09	3,516965E+09	3,516964E+09	5,841231E+09	7,033929E+09	1,287516E+10
133	2,920548E+09	2,920615E+09	3,516958E+09	3,516959E+09	5,841163E+09	7,033916E+09	1,287508E+10
134	2,920707E+09	2,920737E+09	3,517006E+09	3,516963E+09	5,841444E+09	7,033969E+09	1,287541E+10
135	2,920623E+09	2,920601E+09	3,516996E+09	3,516943E+09	5,841224E+09	7,033939E+09	1,287516E+10
136	2,920624E+09	2,920649E+09	3,516987E+09	3,516982E+09	5,841272E+09	7,033969E+09	1,287524E+10

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	2,920711E+09	2,920701E+09	3,516999E+09	3,517000E+09	5,841412E+09	7,033999E+09	1,287541E+10
138	2,920556E+09	2,920581E+09	3,516941E+09	3,516974E+09	5,841138E+09	7,033915E+09	1,287505E+10
139	2,920632E+09	2,920665E+09	3,516960E+09	3,516977E+09	5,841297E+09	7,033937E+09	1,287523E+10
140	2,920659E+09	2,920591E+09	3,516975E+09	3,516943E+09	5,841250E+09	7,033918E+09	1,287517E+10
141	2,920523E+09	2,920518E+09	3,516948E+09	3,516922E+09	5,841042E+09	7,033870E+09	1,287491E+10
142	2,920629E+09	2,920638E+09	3,516970E+09	3,516949E+09	5,841267E+09	7,033919E+09	1,287519E+10
143	2,920540E+09	2,920527E+09	3,516947E+09	3,516926E+09	5,841067E+09	7,033873E+09	1,287494E+10
144	2,920470E+09	2,920546E+09	3,516942E+09	3,516961E+09	5,841016E+09	7,033903E+09	1,287492E+10
145	2,920587E+09	2,920621E+09	3,516981E+09	3,516976E+09	5,841208E+09	7,033957E+09	1,287516E+10
146	2,920487E+09	2,920491E+09	3,516955E+09	3,516932E+09	5,840978E+09	7,033887E+09	1,287486E+10
147	2,920563E+09	2,920573E+09	3,516974E+09	3,516955E+09	5,841135E+09	7,033929E+09	1,287506E+10
148	2,920665E+09	2,920592E+09	3,516970E+09	3,516962E+09	5,841258E+09	7,033932E+09	1,287519E+10
149	2,920547E+09	2,920563E+09	3,516928E+09	3,516949E+09	5,841110E+09	7,033877E+09	1,287499E+10
150	2,920670E+09	2,920726E+09	3,516955E+09	3,516981E+09	5,841396E+09	7,033936E+09	1,287533E+10
151	2,920677E+09	2,920670E+09	3,516962E+09	3,516932E+09	5,841348E+09	7,033894E+09	1,287524E+10
152	2,920622E+09	2,920663E+09	3,516975E+09	3,516948E+09	5,841285E+09	7,033922E+09	1,287521E+10
153	2,920763E+09	2,920767E+09	3,517018E+09	3,516981E+09	5,841530E+09	7,033999E+09	1,287553E+10
154	2,920677E+09	2,920662E+09	3,516987E+09	3,516946E+09	5,841339E+09	7,033934E+09	1,287527E+10
155	2,920668E+09	2,920717E+09	3,516981E+09	3,516992E+09	5,841384E+09	7,033973E+09	1,287536E+10
156	2,920760E+09	2,920740E+09	3,516973E+09	3,517005E+09	5,841500E+09	7,033979E+09	1,287548E+10
157	2,920622E+09	2,920625E+09	3,516950E+09	3,516951E+09	5,841246E+09	7,033900E+09	1,287515E+10
158	2,920681E+09	2,920703E+09	3,516973E+09	3,516964E+09	5,841385E+09	7,033936E+09	1,287532E+10
159	2,920702E+09	2,920638E+09	3,516960E+09	3,516918E+09	5,841340E+09	7,033877E+09	1,287522E+10
160	2,920571E+09	2,920578E+09	3,516936E+09	3,516935E+09	5,841149E+09	7,033871E+09	1,287502E+10
161	2,920643E+09	2,920690E+09	3,516961E+09	3,516981E+09	5,841333E+09	7,033942E+09	1,287527E+10
162	2,920573E+09	2,920588E+09	3,516946E+09	3,516917E+09	5,841161E+09	7,033863E+09	1,287502E+10
163	2,920524E+09	2,920587E+09	3,516961E+09	3,516943E+09	5,841111E+09	7,033903E+09	1,287501E+10
164	2,920664E+09	2,920637E+09	3,516972E+09	3,516965E+09	5,841301E+09	7,033937E+09	1,287524E+10
165	2,920577E+09	2,920534E+09	3,516955E+09	3,516916E+09	5,841111E+09	7,033871E+09	1,287498E+10
166	2,920616E+09	2,920646E+09	3,516963E+09	3,516968E+09	5,841262E+09	7,033931E+09	1,287519E+10
167	2,920710E+09	2,920685E+09	3,516939E+09	3,516953E+09	5,841395E+09	7,033891E+09	1,287529E+10
168	2,920609E+09	2,920646E+09	3,516930E+09	3,516949E+09	5,841254E+09	7,033879E+09	1,287513E+10
169	2,920715E+09	2,920780E+09	3,516985E+09	3,516986E+09	5,841494E+09	7,033971E+09	1,287547E+10
170	2,920746E+09	2,920727E+09	3,516988E+09	3,516913E+09	5,841473E+09	7,033901E+09	1,287537E+10
171	2,920686E+09	2,920710E+09	3,516999E+09	3,516953E+09	5,841396E+09	7,033952E+09	1,287535E+10
172	2,920819E+09	2,920809E+09	3,516993E+09	3,517012E+09	5,841628E+09	7,034004E+09	1,287563E+10
173	2,920735E+09	2,920717E+09	3,516965E+09	3,516957E+09	5,841452E+09	7,033922E+09	1,287537E+10
174	2,920703E+09	2,920769E+09	3,516968E+09	3,516998E+09	5,841472E+09	7,033966E+09	1,287544E+10
175	2,920812E+09	2,920784E+09	3,516947E+09	3,516964E+09	5,841596E+09	7,033911E+09	1,287551E+10
176	2,920695E+09	2,920663E+09	3,516942E+09	3,516923E+09	5,841358E+09	7,033865E+09	1,287522E+10
177	2,920722E+09	2,920743E+09	3,516976E+09	3,516962E+09	5,841465E+09	7,033937E+09	1,287540E+10
178	2,920740E+09	2,920711E+09	3,516950E+09	3,516904E+09	5,841451E+09	7,033854E+09	1,287531E+10
179	2,920598E+09	2,920647E+09	3,516949E+09	3,516937E+09	5,841244E+09	7,033886E+09	1,287513E+10
180	2,920676E+09	2,920726E+09	3,516960E+09	3,516990E+09	5,841401E+09	7,033950E+09	1,287535E+10
181	2,920635E+09	2,920618E+09	3,516972E+09	3,516907E+09	5,841253E+09	7,033879E+09	1,287513E+10
182	2,920580E+09	2,920619E+09	3,516976E+09	3,516951E+09	5,841199E+09	7,033927E+09	1,287513E+10
183	2,920729E+09	2,920680E+09	3,516946E+09	3,516957E+09	5,841409E+09	7,033903E+09	1,287531E+10
184	2,920650E+09	2,920609E+09	3,516922E+09	3,516933E+09	5,841259E+09	7,033855E+09	1,287511E+10
185	2,920659E+09	2,920724E+09	3,516943E+09	3,516986E+09	5,841383E+09	7,033929E+09	1,287531E+10

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	2,920767E+09	2,920772E+09	3,516937E+09	3,516925E+09	5,841539E+09	7,033862E+09	1,287540E+10
187	2,920680E+09	2,920710E+09	3,516964E+09	3,516922E+09	5,841390E+09	7,033886E+09	1,287528E+10
188	2,920785E+09	2,920811E+09	3,516992E+09	3,516980E+09	5,841596E+09	7,033972E+09	1,287557E+10
189	2,920820E+09	2,920775E+09	3,517002E+09	3,516916E+09	5,841595E+09	7,033918E+09	1,287551E+10
190	2,920727E+09	2,920775E+09	3,516988E+09	3,516982E+09	5,841501E+09	7,033970E+09	1,287547E+10
191	2,920854E+09	2,920871E+09	3,516954E+09	3,517011E+09	5,841725E+09	7,033965E+09	1,287569E+10
192	2,920797E+09	2,920778E+09	3,516947E+09	3,516956E+09	5,841575E+09	7,033903E+09	1,287548E+10
193	2,920752E+09	2,920806E+09	3,516972E+09	3,516989E+09	5,841558E+09	7,033961E+09	1,287552E+10
194	2,920876E+09	2,920834E+09	3,516953E+09	3,516926E+09	5,841710E+09	7,033879E+09	1,287559E+10
195	2,920751E+09	2,920714E+09	3,516959E+09	3,516908E+09	5,841465E+09	7,033867E+09	1,287533E+10
196	2,920752E+09	2,920788E+09	3,516960E+09	3,516976E+09	5,841540E+09	7,033936E+09	1,287548E+10
197	2,920775E+09	2,920764E+09	3,516955E+09	3,516910E+09	5,841539E+09	7,033865E+09	1,287540E+10
198	2,920622E+09	2,920687E+09	3,516959E+09	3,516949E+09	5,841309E+09	7,033908E+09	1,287522E+10
199	2,920725E+09	2,920749E+09	3,516949E+09	3,516969E+09	5,841474E+09	7,033918E+09	1,287539E+10
200	2,920719E+09	2,920652E+09	3,516955E+09	3,516907E+09	5,841371E+09	7,033862E+09	1,287523E+10
201	2,920638E+09	2,920668E+09	3,516959E+09	3,516965E+09	5,841306E+09	7,033925E+09	1,287523E+10
202	2,920790E+09	2,920772E+09	3,516918E+09	3,516946E+09	5,841562E+09	7,033864E+09	1,287543E+10
203	2,920706E+09	2,920701E+09	3,516928E+09	3,516921E+09	5,841406E+09	7,033849E+09	1,287525E+10
204	2,920712E+09	2,920788E+09	3,516951E+09	3,516978E+09	5,841500E+09	7,033929E+09	1,287543E+10
205	2,920841E+09	2,920824E+09	3,516973E+09	3,516904E+09	5,841665E+09	7,033877E+09	1,287554E+10
206	2,920732E+09	2,920755E+09	3,516994E+09	3,516934E+09	5,841487E+09	7,033929E+09	1,287542E+10
207	2,920837E+09	2,920856E+09	3,516975E+09	3,516989E+09	5,841693E+09	7,033964E+09	1,287566E+10
208	2,920881E+09	2,920838E+09	3,516966E+09	3,516951E+09	5,841719E+09	7,033917E+09	1,287564E+10
209	2,920766E+09	2,920832E+09	3,516961E+09	3,517007E+09	5,841599E+09	7,033968E+09	1,287557E+10
210	2,920919E+09	2,920931E+09	3,516935E+09	3,516976E+09	5,841849E+09	7,033911E+09	1,287576E+10
211	2,920875E+09	2,920826E+09	3,516960E+09	3,516910E+09	5,841700E+09	7,033870E+09	1,287557E+10
212	2,920819E+09	2,920839E+09	3,516967E+09	3,516961E+09	5,841658E+09	7,033929E+09	1,287559E+10
213	2,920933E+09	2,920887E+09	3,516965E+09	3,516910E+09	5,841820E+09	7,033875E+09	1,287569E+10
214	2,920766E+09	2,920783E+09	3,516967E+09	3,516931E+09	5,841549E+09	7,033898E+09	1,287545E+10
215	2,920763E+09	2,920839E+09	3,516948E+09	3,516981E+09	5,841602E+09	7,033929E+09	1,287553E+10
216	2,920818E+09	2,920807E+09	3,516955E+09	3,516929E+09	5,841625E+09	7,033884E+09	1,287551E+10
217	2,920667E+09	2,920711E+09	3,516966E+09	3,516963E+09	5,841378E+09	7,033930E+09	1,287531E+10
218	2,920797E+09	2,920788E+09	3,516939E+09	3,516954E+09	5,841585E+09	7,033893E+09	1,287548E+10
219	2,920794E+09	2,920714E+09	3,516948E+09	3,516903E+09	5,841509E+09	7,033851E+09	1,287536E+10
220	2,920693E+09	2,920734E+09	3,516922E+09	3,516971E+09	5,841427E+09	7,033893E+09	1,287532E+10
221	2,920848E+09	2,920849E+09	3,516920E+09	3,516929E+09	5,841697E+09	7,033849E+09	1,287555E+10
222	2,920751E+09	2,920769E+09	3,516950E+09	3,516908E+09	5,841520E+09	7,033858E+09	1,287538E+10
223	2,920765E+09	2,920827E+09	3,516958E+09	3,516948E+09	5,841592E+09	7,033906E+09	1,287550E+10
224	2,920916E+09	2,920874E+09	3,516974E+09	3,516915E+09	5,841790E+09	7,033889E+09	1,287568E+10
225	2,920783E+09	2,920807E+09	3,516986E+09	3,516967E+09	5,841590E+09	7,033953E+09	1,287554E+10
226	2,920892E+09	2,920933E+09	3,516949E+09	3,516993E+09	5,841825E+09	7,033942E+09	1,287577E+10
227	2,920944E+09	2,920913E+09	3,516962E+09	3,516945E+09	5,841857E+09	7,033907E+09	1,287576E+10
228	2,920829E+09	2,920880E+09	3,516951E+09	3,516993E+09	5,841708E+09	7,033945E+09	1,287565E+10
229	2,920996E+09	2,920975E+09	3,516958E+09	3,516942E+09	5,841971E+09	7,033900E+09	1,287587E+10
230	2,920924E+09	2,920876E+09	3,516982E+09	3,516904E+09	5,841799E+09	7,033886E+09	1,287569E+10
231	2,920851E+09	2,920887E+09	3,516955E+09	3,516959E+09	5,841738E+09	7,033914E+09	1,287565E+10
232	2,920965E+09	2,920952E+09	3,516942E+09	3,516943E+09	5,841917E+09	7,033885E+09	1,287580E+10
233	2,920779E+09	2,920828E+09	3,516963E+09	3,516963E+09	5,841607E+09	7,033926E+09	1,287553E+10
234	2,920809E+09	2,920876E+09	3,516944E+09	3,516965E+09	5,841685E+09	7,033908E+09	1,287559E+10

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							
235	2,920890E+09	2,920833E+09	3,516964E+09	3,516906E+09	5,841723E+09	7,033870E+09	1,287559E+10
236	2,920739E+09	2,920739E+09	3,516943E+09	3,516954E+09	5,841478E+09	7,033897E+09	1,287538E+10
237	2,920872E+09	2,920844E+09	3,516925E+09	3,516936E+09	5,841716E+09	7,033861E+09	1,287558E+10
238	2,920829E+09	2,920799E+09	3,516940E+09	3,516904E+09	5,841629E+09	7,033844E+09	1,287547E+10
239	2,920728E+09	2,920805E+09	3,516914E+09	3,516950E+09	5,841533E+09	7,033864E+09	1,287540E+10
240	2,920903E+09	2,920913E+09	3,516932E+09	3,516928E+09	5,841816E+09	7,033860E+09	1,287568E+10
241	2,920799E+09	2,920811E+09	3,516981E+09	3,516922E+09	5,841610E+09	7,033903E+09	1,287551E+10
242	2,920831E+09	2,920874E+09	3,516965E+09	3,516947E+09	5,841705E+09	7,033912E+09	1,287562E+10
243	2,920982E+09	2,920936E+09	3,516971E+09	3,516933E+09	5,841919E+09	7,033904E+09	1,287582E+10
244	2,920840E+09	2,920870E+09	3,516945E+09	3,516991E+09	5,841710E+09	7,033936E+09	1,287565E+10
245	2,920965E+09	2,920993E+09	3,516939E+09	3,516979E+09	5,841959E+09	7,033919E+09	1,287588E+10
246	2,921005E+09	2,920975E+09	3,516970E+09	3,516924E+09	5,841980E+09	7,033894E+09	1,287587E+10
247	2,920895E+09	2,920922E+09	3,516945E+09	3,516951E+09	5,841816E+09	7,033897E+09	1,287571E+10
248	2,921061E+09	2,921033E+09	3,516953E+09	3,516940E+09	5,842094E+09	7,033894E+09	1,287599E+10
249	2,920951E+09	2,920938E+09	3,516985E+09	3,516929E+09	5,841889E+09	7,033914E+09	1,287580E+10
250	2,920873E+09	2,920955E+09	3,516947E+09	3,516964E+09	5,841828E+09	7,033911E+09	1,287574E+10
251	2,920999E+09	2,921008E+09	3,516957E+09	3,516947E+09	5,842007E+09	7,033904E+09	1,287591E+10
252	2,920827E+09	2,920848E+09	3,516958E+09	3,516963E+09	5,841675E+09	7,033921E+09	1,287560E+10
253	2,920884E+09	2,920889E+09	3,516958E+09	3,516944E+09	5,841773E+09	7,033902E+09	1,287567E+10
254	2,920947E+09	2,920873E+09	3,516965E+09	3,516903E+09	5,841819E+09	7,033868E+09	1,287569E+10
255	2,920785E+09	2,920789E+09	3,516906E+09	3,516943E+09	5,841574E+09	7,033850E+09	1,287542E+10
256	2,920917E+09	2,920926E+09	3,516893E+09	3,516948E+09	5,841843E+09	7,033841E+09	1,287568E+10
257	2,920861E+09	2,920866E+09	3,516943E+09	3,516909E+09	5,841727E+09	7,033853E+09	1,287558E+10
258	2,920782E+09	2,920860E+09	3,516929E+09	3,516919E+09	5,841642E+09	7,033848E+09	1,287549E+10
259	2,920973E+09	2,920962E+09	3,516959E+09	3,516911E+09	5,841935E+09	7,033870E+09	1,287580E+10
260	2,920865E+09	2,920852E+09	3,516974E+09	3,516936E+09	5,841717E+09	7,033910E+09	1,287563E+10
261	2,920903E+09	2,920933E+09	3,516961E+09	3,516959E+09	5,841836E+09	7,033919E+09	1,287576E+10
262	2,921028E+09	2,921017E+09	3,516963E+09	3,516951E+09	5,842045E+09	7,033915E+09	1,287596E+10
263	2,920895E+09	2,920934E+09	3,516927E+09	3,516976E+09	5,841829E+09	7,033902E+09	1,287573E+10
264	2,921040E+09	2,921058E+09	3,516934E+09	3,516971E+09	5,842098E+09	7,033905E+09	1,287600E+10
265	2,921061E+09	2,921026E+09	3,516989E+09	3,516923E+09	5,842087E+09	7,033912E+09	1,287600E+10
266	2,920953E+09	2,920978E+09	3,516952E+09	3,516937E+09	5,841932E+09	7,033889E+09	1,287582E+10
267	2,921103E+09	2,921097E+09	3,516956E+09	3,516948E+09	5,842199E+09	7,033904E+09	1,287610E+10
268	2,920978E+09	2,920988E+09	3,516965E+09	3,516953E+09	5,841966E+09	7,033919E+09	1,287588E+10
269	2,920924E+09	2,920984E+09	3,516952E+09	3,516953E+09	5,841908E+09	7,033905E+09	1,287581E+10
270	2,921042E+09	2,921033E+09	3,516967E+09	3,516932E+09	5,842075E+09	7,033899E+09	1,287597E+10
271	2,920890E+09	2,920865E+09	3,516938E+09	3,516932E+09	5,841754E+09	7,033869E+09	1,287562E+10
272	2,920953E+09	2,920936E+09	3,516925E+09	3,516944E+09	5,841889E+09	7,033869E+09	1,287576E+10
273	2,920981E+09	2,920942E+09	3,516948E+09	3,516918E+09	5,841923E+09	7,033866E+09	1,287579E+10
274	2,920822E+09	2,920872E+09	3,516894E+09	3,516927E+09	5,841694E+09	7,033821E+09	1,287552E+10
275	2,920958E+09	2,921000E+09	3,516916E+09	3,516932E+09	5,841958E+09	7,033848E+09	1,287581E+10
276	2,920911E+09	2,920912E+09	3,516962E+09	3,516908E+09	5,841823E+09	7,033870E+09	1,287569E+10
277	2,920857E+09	2,920891E+09	3,516963E+09	3,516912E+09	5,841747E+09	7,033875E+09	1,287562E+10
278	2,921025E+09	2,921014E+09	3,516973E+09	3,516932E+09	5,842040E+09	7,033906E+09	1,287595E+10
279	2,920920E+09	2,920910E+09	3,516938E+09	3,516953E+09	5,841830E+09	7,033891E+09	1,287572E+10
280	2,920968E+09	2,921011E+09	3,516922E+09	3,516985E+09	5,841978E+09	7,033906E+09	1,287588E+10
281	2,921085E+09	2,921082E+09	3,516959E+09	3,516954E+09	5,842166E+09	7,033914E+09	1,287608E+10
282	2,920973E+09	2,920990E+09	3,516928E+09	3,516931E+09	5,841963E+09	7,033858E+09	1,287582E+10
283	2,921119E+09	2,921118E+09	3,516952E+09	3,516938E+09	5,842237E+09	7,033890E+09	1,287613E+10

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							
284	2,921120E+09	2,921079E+09	3,516981E+09	3,516921E+09	5,842199E+09	7,033902E+09	1,287610E+10
285	2,921002E+09	2,921035E+09	3,516959E+09	3,516938E+09	5,842037E+09	7,033897E+09	1,287593E+10
286	2,921118E+09	2,921164E+09	3,516966E+09	3,516962E+09	5,842282E+09	7,033928E+09	1,287621E+10
287	2,921011E+09	2,921019E+09	3,516957E+09	3,516947E+09	5,842030E+09	7,033905E+09	1,287593E+10
288	2,920983E+09	2,921013E+09	3,516946E+09	3,516959E+09	5,841996E+09	7,033905E+09	1,287590E+10
289	2,921094E+09	2,921056E+09	3,516970E+09	3,516940E+09	5,842149E+09	7,033910E+09	1,287606E+10
290	2,920948E+09	2,920912E+09	3,516916E+09	3,516916E+09	5,841859E+09	7,033831E+09	1,287569E+10
291	2,921000E+09	2,921013E+09	3,516904E+09	3,516941E+09	5,842013E+09	7,033844E+09	1,287586E+10
292	2,921016E+09	2,921010E+09	3,516926E+09	3,516921E+09	5,842026E+09	7,033847E+09	1,287587E+10
293	2,920880E+09	2,920921E+09	3,516918E+09	3,516904E+09	5,841800E+09	7,033822E+09	1,287562E+10
294	2,921001E+09	2,921046E+09	3,516952E+09	3,516914E+09	5,842047E+09	7,033866E+09	1,287591E+10
295	2,920972E+09	2,920942E+09	3,516964E+09	3,516899E+09	5,841914E+09	7,033862E+09	1,287578E+10
296	2,920927E+09	2,920946E+09	3,516943E+09	3,516939E+09	5,841873E+09	7,033882E+09	1,287576E+10
297	2,921069E+09	2,921081E+09	3,516960E+09	3,516968E+09	5,842150E+09	7,033929E+09	1,287608E+10
298	2,920982E+09	2,920990E+09	3,516918E+09	3,516945E+09	5,841972E+09	7,033863E+09	1,287584E+10
299	2,921042E+09	2,921084E+09	3,516922E+09	3,516963E+09	5,842126E+09	7,033885E+09	1,287601E+10
300	2,921157E+09	2,921135E+09	3,516964E+09	3,516938E+09	5,842292E+09	7,033901E+09	1,287619E+10
301	2,921060E+09	2,921035E+09	3,516953E+09	3,516904E+09	5,842095E+09	7,033857E+09	1,287595E+10
302	2,921158E+09	2,921182E+09	3,516968E+09	3,516938E+09	5,842339E+09	7,033907E+09	1,287625E+10
303	2,921153E+09	2,921139E+09	3,516958E+09	3,516935E+09	5,842292E+09	7,033893E+09	1,287618E+10
304	2,921043E+09	2,921093E+09	3,516936E+09	3,516964E+09	5,842136E+09	7,033900E+09	1,287604E+10
305	2,921151E+09	2,921197E+09	3,516971E+09	3,516973E+09	5,842348E+09	7,033945E+09	1,287629E+10
306	2,921075E+09	2,921047E+09	3,516947E+09	3,516917E+09	5,842122E+09	7,033864E+09	1,287599E+10
307	2,921054E+09	2,921054E+09	3,516933E+09	3,516938E+09	5,842109E+09	7,033871E+09	1,287598E+10
308	2,921147E+09	2,921107E+09	3,516942E+09	3,516941E+09	5,842254E+09	7,033883E+09	1,287614E+10
309	2,921002E+09	2,920978E+09	3,516912E+09	3,516901E+09	5,841980E+09	7,033813E+09	1,287579E+10
310	2,921019E+09	2,921093E+09	3,516923E+09	3,516928E+09	5,842112E+09	7,033851E+09	1,287596E+10
311	2,921055E+09	2,921058E+09	3,516936E+09	3,516904E+09	5,842112E+09	7,033841E+09	1,287595E+10
312	2,920939E+09	2,920960E+09	3,516937E+09	3,516913E+09	5,841899E+09	7,033850E+09	1,287575E+10
313	2,921048E+09	2,921076E+09	3,516976E+09	3,516942E+09	5,842125E+09	7,033918E+09	1,287604E+10
314	2,921031E+09	2,920990E+09	3,516945E+09	3,516910E+09	5,842021E+09	7,033855E+09	1,287588E+10
315	2,920989E+09	2,921023E+09	3,516911E+09	3,516958E+09	5,842012E+09	7,033869E+09	1,287588E+10
316	2,921132E+09	2,921145E+09	3,516926E+09	3,516973E+09	5,842277E+09	7,033898E+09	1,287618E+10
317	2,921070E+09	2,921044E+09	3,516924E+09	3,516903E+09	5,842114E+09	7,033827E+09	1,287594E+10
318	2,921110E+09	2,921151E+09	3,516944E+09	3,516921E+09	5,842260E+09	7,033865E+09	1,287613E+10
319	2,921226E+09	2,921187E+09	3,516958E+09	3,516914E+09	5,842413E+09	7,033871E+09	1,287628E+10
320	2,921117E+09	2,921108E+09	3,516946E+09	3,516924E+09	5,842225E+09	7,033869E+09	1,287609E+10
321	2,921175E+09	2,921251E+09	3,516974E+09	3,516973E+09	5,842426E+09	7,033947E+09	1,287637E+10
322	2,921185E+09	2,921198E+09	3,516953E+09	3,516937E+09	5,842383E+09	7,033891E+09	1,287627E+10
323	2,921097E+09	2,921141E+09	3,516937E+09	3,516962E+09	5,842238E+09	7,033899E+09	1,287614E+10
324	2,921213E+09	2,921217E+09	3,516966E+09	3,516971E+09	5,842430E+09	7,033938E+09	1,287637E+10
325	2,921157E+09	2,921073E+09	3,516951E+09	3,516896E+09	5,842230E+09	7,033846E+09	1,287608E+10
326	2,921096E+09	2,921117E+09	3,516926E+09	3,516928E+09	5,842213E+09	7,033855E+09	1,287607E+10
327	2,921182E+09	2,921170E+09	3,516909E+09	3,516937E+09	5,842351E+09	7,033846E+09	1,287620E+10
328	2,921045E+09	2,921042E+09	3,516904E+09	3,516905E+09	5,842088E+09	7,033809E+09	1,287590E+10
329	2,921046E+09	2,921130E+09	3,516953E+09	3,516926E+09	5,842176E+09	7,033879E+09	1,287606E+10
330	2,921110E+09	2,921091E+09	3,516948E+09	3,516883E+09	5,842202E+09	7,033831E+09	1,287603E+10
331	2,921008E+09	2,921004E+09	3,516928E+09	3,516916E+09	5,842012E+09	7,033844E+09	1,287586E+10
332	2,921102E+09	2,921125E+09	3,516948E+09	3,516967E+09	5,842227E+09	7,033915E+09	1,287614E+10

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							
333	2,921102E+09	2,921059E+09	3,516927E+09	3,516909E+09	5,842162E+09	7,033836E+09	1,287600E+10
334	2,921038E+09	2,921106E+09	3,516911E+09	3,516940E+09	5,842144E+09	7,033851E+09	1,287600E+10
335	2,921201E+09	2,921206E+09	3,516920E+09	3,516947E+09	5,842407E+09	7,033867E+09	1,287627E+10
336	2,921153E+09	2,921106E+09	3,516934E+09	3,516893E+09	5,842259E+09	7,033827E+09	1,287609E+10
337	2,921158E+09	2,921207E+09	3,516972E+09	3,516930E+09	5,842365E+09	7,033902E+09	1,287627E+10
338	2,921271E+09	2,921257E+09	3,516949E+09	3,516921E+09	5,842528E+09	7,033870E+09	1,287640E+10
339	2,921159E+09	2,921186E+09	3,516929E+09	3,516949E+09	5,842345E+09	7,033878E+09	1,287622E+10
340	2,921216E+09	2,921294E+09	3,516964E+09	3,516992E+09	5,842510E+09	7,033956E+09	1,287647E+10
341	2,921263E+09	2,921223E+09	3,516963E+09	3,516913E+09	5,842486E+09	7,033875E+09	1,287636E+10
342	2,921161E+09	2,921180E+09	3,516945E+09	3,516930E+09	5,842341E+09	7,033875E+09	1,287622E+10
343	2,921282E+09	2,921251E+09	3,516937E+09	3,516953E+09	5,842533E+09	7,033890E+09	1,287642E+10
344	2,921212E+09	2,921141E+09	3,516927E+09	3,516901E+09	5,842354E+09	7,033828E+09	1,287618E+10
345	2,921113E+09	2,921188E+09	3,516933E+09	3,516939E+09	5,842302E+09	7,033872E+09	1,287617E+10
346	2,921208E+09	2,921228E+09	3,516913E+09	3,516919E+09	5,842436E+09	7,033832E+09	1,287627E+10
347	2,921090E+09	2,921093E+09	3,516921E+09	3,516903E+09	5,842183E+09	7,033824E+09	1,287601E+10
348	2,921095E+09	2,921149E+09	3,516964E+09	3,516937E+09	5,842243E+09	7,033901E+09	1,287614E+10
349	2,921179E+09	2,921115E+09	3,516953E+09	3,516885E+09	5,842294E+09	7,033838E+09	1,287613E+10
350	2,921053E+09	2,921072E+09	3,516912E+09	3,516924E+09	5,842125E+09	7,033836E+09	1,287596E+10
351	2,921158E+09	2,921186E+09	3,516900E+09	3,516973E+09	5,842344E+09	7,033873E+09	1,287622E+10
352	2,921175E+09	2,921130E+09	3,516909E+09	3,516902E+09	5,842305E+09	7,033810E+09	1,287612E+10
353	2,921098E+09	2,921164E+09	3,516930E+09	3,516919E+09	5,842262E+09	7,033849E+09	1,287611E+10
354	2,921271E+09	2,921263E+09	3,516926E+09	3,516909E+09	5,842534E+09	7,033835E+09	1,287637E+10
355	2,921222E+09	2,921182E+09	3,516935E+09	3,516893E+09	5,842404E+09	7,033828E+09	1,287623E+10
356	2,921199E+09	2,921272E+09	3,516968E+09	3,516958E+09	5,842470E+09	7,033926E+09	1,287640E+10
357	2,921324E+09	2,921322E+09	3,516956E+09	3,516929E+09	5,842645E+09	7,033886E+09	1,287653E+10
358	2,921202E+09	2,921249E+09	3,516944E+09	3,516945E+09	5,842452E+09	7,033889E+09	1,287634E+10
359	2,921282E+09	2,921321E+09	3,516957E+09	3,516984E+09	5,842603E+09	7,033941E+09	1,287654E+10
360	2,921346E+09	2,921258E+09	3,516959E+09	3,516910E+09	5,842604E+09	7,033870E+09	1,287647E+10
361	2,921210E+09	2,921221E+09	3,516946E+09	3,516936E+09	5,842430E+09	7,033882E+09	1,287631E+10
362	2,921320E+09	2,921317E+09	3,516906E+09	3,516947E+09	5,842637E+09	7,033854E+09	1,287649E+10
363	2,921249E+09	2,921221E+09	3,516899E+09	3,516903E+09	5,842470E+09	7,033802E+09	1,287627E+10
364	2,921139E+09	2,921229E+09	3,516936E+09	3,516937E+09	5,842368E+09	7,033873E+09	1,287624E+10
365	2,921265E+09	2,921257E+09	3,516936E+09	3,516890E+09	5,842522E+09	7,033826E+09	1,287635E+10
366	2,921139E+09	2,921131E+09	3,516938E+09	3,516884E+09	5,842269E+09	7,033823E+09	1,287609E+10
367	2,921152E+09	2,921178E+09	3,516940E+09	3,516946E+09	5,842330E+09	7,033886E+09	1,287622E+10
368	2,921239E+09	2,921178E+09	3,516927E+09	3,516905E+09	5,842417E+09	7,033832E+09	1,287625E+10
369	2,921089E+09	2,921144E+09	3,516908E+09	3,516935E+09	5,842233E+09	7,033843E+09	1,287608E+10
370	2,921213E+09	2,921255E+09	3,516891E+09	3,516947E+09	5,842468E+09	7,033838E+09	1,287631E+10
371	2,921248E+09	2,921204E+09	3,516914E+09	3,516885E+09	5,842452E+09	7,033799E+09	1,287625E+10
372	2,921164E+09	2,921210E+09	3,516953E+09	3,516918E+09	5,842374E+09	7,033871E+09	1,287624E+10
373	2,921341E+09	2,921318E+09	3,516944E+09	3,516906E+09	5,842659E+09	7,033850E+09	1,287651E+10
374	2,921261E+09	2,921266E+09	3,516941E+09	3,516908E+09	5,842527E+09	7,033849E+09	1,287638E+10
375	2,921247E+09	2,921326E+09	3,516943E+09	3,516980E+09	5,842573E+09	7,033923E+09	1,287650E+10
376	2,921389E+09	2,921369E+09	3,516954E+09	3,516936E+09	5,842758E+09	7,033890E+09	1,287665E+10
377	2,921265E+09	2,921286E+09	3,516957E+09	3,516937E+09	5,842551E+09	7,033894E+09	1,287644E+10
378	2,921355E+09	2,921356E+09	3,516934E+09	3,516954E+09	5,842711E+09	7,033888E+09	1,287660E+10
379	2,921410E+09	2,921329E+09	3,516927E+09	3,516907E+09	5,842738E+09	7,033834E+09	1,287657E+10
380	2,921244E+09	2,921286E+09	3,516928E+09	3,516943E+09	5,842531E+09	7,033871E+09	1,287640E+10
381	2,921354E+09	2,921380E+09	3,516912E+09	3,516928E+09	5,842734E+09	7,033840E+09	1,287657E+10

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	2,921274E+09	2,921285E+09	3,516930E+09	3,516882E+09	5,842559E+09	7,033812E+09	1,287637E+10
383	2,921186E+09	2,921247E+09	3,516945E+09	3,516932E+09	5,842433E+09	7,033877E+09	1,287631E+10
384	2,921324E+09	2,921279E+09	3,516949E+09	3,516899E+09	5,842603E+09	7,033849E+09	1,287645E+10
385	2,921178E+09	2,921167E+09	3,516940E+09	3,516909E+09	5,842345E+09	7,033849E+09	1,287619E+10
386	2,921194E+09	2,921233E+09	3,516898E+09	3,516954E+09	5,842427E+09	7,033851E+09	1,287628E+10
387	2,921296E+09	2,921258E+09	3,516889E+09	3,516912E+09	5,842553E+09	7,033801E+09	1,287635E+10
388	2,921149E+09	2,921194E+09	3,516907E+09	3,516920E+09	5,842343E+09	7,033828E+09	1,287617E+10
389	2,921296E+09	2,921305E+09	3,516911E+09	3,516901E+09	5,842601E+09	7,033812E+09	1,287641E+10
390	2,921316E+09	2,921276E+09	3,516938E+09	3,516855E+09	5,842593E+09	7,033793E+09	1,287639E+10
391	2,921224E+09	2,921268E+09	3,516945E+09	3,516931E+09	5,842491E+09	7,033876E+09	1,287637E+10
392	2,921392E+09	2,921396E+09	3,516944E+09	3,516935E+09	5,842788E+09	7,033879E+09	1,287667E+10
393	2,921294E+09	2,921332E+09	3,516954E+09	3,516934E+09	5,842626E+09	7,033889E+09	1,287651E+10
394	2,921301E+09	2,921375E+09	3,516936E+09	3,516975E+09	5,842676E+09	7,033911E+09	1,287659E+10
395	2,921469E+09	2,921422E+09	3,516938E+09	3,516933E+09	5,842891E+09	7,033870E+09	1,287676E+10
396	2,921334E+09	2,921317E+09	3,516952E+09	3,516934E+09	5,842651E+09	7,033886E+09	1,287654E+10
397	2,921422E+09	2,921413E+09	3,516921E+09	3,516936E+09	5,842834E+09	7,033857E+09	1,287669E+10
398	2,921443E+09	2,921416E+09	3,516917E+09	3,516894E+09	5,842859E+09	7,033811E+09	1,287667E+10
399	2,921279E+09	2,921337E+09	3,516914E+09	3,516941E+09	5,842616E+09	7,033855E+09	1,287647E+10
400	2,921398E+09	2,921417E+09	3,516933E+09	3,516914E+09	5,842815E+09	7,033847E+09	1,287666E+10
401	2,921311E+09	2,921308E+09	3,516964E+09	3,516875E+09	5,842619E+09	7,033839E+09	1,287646E+10
402	2,921236E+09	2,921268E+09	3,516933E+09	3,516925E+09	5,842503E+09	7,033858E+09	1,287636E+10
403	2,921377E+09	2,921335E+09	3,516914E+09	3,516922E+09	5,842712E+09	7,033836E+09	1,287655E+10
404	2,921220E+09	2,921223E+09	3,516918E+09	3,516929E+09	5,842443E+09	7,033847E+09	1,287629E+10
405	2,921254E+09	2,921298E+09	3,516888E+09	3,516934E+09	5,842552E+09	7,033822E+09	1,287637E+10
406	2,921351E+09	2,921337E+09	3,516908E+09	3,516879E+09	5,842688E+09	7,033787E+09	1,287648E+10
407	2,921224E+09	2,921238E+09	3,516918E+09	3,516906E+09	5,842462E+09	7,033824E+09	1,287629E+10
408	2,921365E+09	2,921355E+09	3,516937E+09	3,516900E+09	5,842719E+09	7,033837E+09	1,287656E+10
409	2,921356E+09	2,921345E+09	3,516956E+09	3,516884E+09	5,842700E+09	7,033841E+09	1,287654E+10
410	2,921264E+09	2,921333E+09	3,516915E+09	3,516950E+09	5,842597E+09	7,033865E+09	1,287646E+10
411	2,921444E+09	2,921468E+09	3,516915E+09	3,516956E+09	5,842912E+09	7,033872E+09	1,287678E+10
412	2,921362E+09	2,921370E+09	3,516953E+09	3,516932E+09	5,842731E+09	7,033885E+09	1,287662E+10
413	2,921392E+09	2,921411E+09	3,516931E+09	3,516937E+09	5,842803E+09	7,033868E+09	1,287667E+10
414	2,921542E+09	2,921489E+09	3,516937E+09	3,516899E+09	5,843031E+09	7,033836E+09	1,287687E+10
415	2,921397E+09	2,921377E+09	3,516925E+09	3,516929E+09	5,842773E+09	7,033854E+09	1,287663E+10
416	2,921463E+09	2,921486E+09	3,516924E+09	3,516930E+09	5,842949E+09	7,033854E+09	1,287680E+10
417	2,921461E+09	2,921481E+09	3,516946E+09	3,516895E+09	5,842942E+09	7,033840E+09	1,287678E+10
418	2,921310E+09	2,921371E+09	3,516924E+09	3,516930E+09	5,842681E+09	7,033854E+09	1,287654E+10
419	2,921447E+09	2,921452E+09	3,516934E+09	3,516926E+09	5,842899E+09	7,033860E+09	1,287676E+10
420	2,921361E+09	2,921321E+09	3,516968E+09	3,516899E+09	5,842681E+09	7,033867E+09	1,287655E+10
421	2,921292E+09	2,921310E+09	3,516908E+09	3,516931E+09	5,842602E+09	7,033839E+09	1,287644E+10
422	2,921422E+09	2,921413E+09	3,516889E+09	3,516917E+09	5,842835E+09	7,033806E+09	1,287664E+10
423	2,921279E+09	2,921276E+09	3,516891E+09	3,516920E+09	5,842555E+09	7,033811E+09	1,287637E+10
424	2,921327E+09	2,921351E+09	3,516904E+09	3,516899E+09	5,842678E+09	7,033804E+09	1,287648E+10
425	2,921410E+09	2,921389E+09	3,516936E+09	3,516857E+09	5,842799E+09	7,033794E+09	1,287659E+10
426	2,921279E+09	2,921291E+09	3,516913E+09	3,516898E+09	5,842570E+09	7,033811E+09	1,287638E+10
427	2,921411E+09	2,921438E+09	3,516914E+09	3,516927E+09	5,842849E+09	7,033841E+09	1,287669E+10
428	2,921392E+09	2,921405E+09	3,516956E+09	3,516915E+09	5,842797E+09	7,033871E+09	1,287667E+10
429	2,921325E+09	2,921394E+09	3,516915E+09	3,516944E+09	5,842718E+09	7,033860E+09	1,287658E+10
430	2,921514E+09	2,921531E+09	3,516928E+09	3,516932E+09	5,843045E+09	7,033860E+09	1,287691E+10

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	2,921452E+09	2,921403E+09	3,516946E+09	3,516921E+09	5,842855E+09	7,033867E+09	1,287672E+10
432	2,921476E+09	2,921460E+09	3,516934E+09	3,516923E+09	5,842935E+09	7,033857E+09	1,287679E+10
433	2,921582E+09	2,921564E+09	3,516936E+09	3,516907E+09	5,843146E+09	7,033843E+09	1,287699E+10
434	2,921427E+09	2,921447E+09	3,516899E+09	3,516929E+09	5,842874E+09	7,033828E+09	1,287670E+10
435	2,921495E+09	2,921552E+09	3,516913E+09	3,516935E+09	5,843048E+09	7,033848E+09	1,287690E+10
436	2,921502E+09	2,921504E+09	3,516970E+09	3,516894E+09	5,843006E+09	7,033865E+09	1,287687E+10
437	2,921375E+09	2,921391E+09	3,516929E+09	3,516911E+09	5,842766E+09	7,033840E+09	1,287661E+10
438	2,921498E+09	2,921499E+09	3,516931E+09	3,516919E+09	5,842997E+09	7,033850E+09	1,287685E+10
439	2,921417E+09	2,921365E+09	3,516930E+09	3,516917E+09	5,842782E+09	7,033847E+09	1,287663E+10
440	2,921343E+09	2,921370E+09	3,516894E+09	3,516927E+09	5,842713E+09	7,033821E+09	1,287653E+10
441	2,921459E+09	2,921481E+09	3,516903E+09	3,516907E+09	5,842940E+09	7,033810E+09	1,287675E+10
442	2,921335E+09	2,921325E+09	3,516888E+09	3,516889E+09	5,842659E+09	7,033778E+09	1,287644E+10
443	2,921385E+09	2,921408E+09	3,516907E+09	3,516892E+09	5,842793E+09	7,033799E+09	1,287659E+10
444	2,921460E+09	2,921432E+09	3,516954E+09	3,516875E+09	5,842892E+09	7,033829E+09	1,287672E+10
445	2,921330E+09	2,921354E+09	3,516900E+09	3,516910E+09	5,842684E+09	7,033810E+09	1,287649E+10
446	2,921454E+09	2,921519E+09	3,516907E+09	3,516934E+09	5,842972E+09	7,033841E+09	1,287681E+10
447	2,921463E+09	2,921448E+09	3,516938E+09	3,516920E+09	5,842912E+09	7,033859E+09	1,287677E+10
448	2,921416E+09	2,921433E+09	3,516924E+09	3,516917E+09	5,842849E+09	7,033841E+09	1,287669E+10
449	2,921591E+09	2,921584E+09	3,516939E+09	3,516913E+09	5,843174E+09	7,033853E+09	1,287703E+10
450	2,921520E+09	2,921466E+09	3,516917E+09	3,516905E+09	5,842987E+09	7,033823E+09	1,287681E+10
451	2,921524E+09	2,921556E+09	3,516904E+09	3,516934E+09	5,843079E+09	7,033838E+09	1,287692E+10
452	2,921612E+09	2,921632E+09	3,516946E+09	3,516923E+09	5,843244E+09	7,033869E+09	1,287711E+10
453	2,921468E+09	2,921506E+09	3,516915E+09	3,516919E+09	5,842974E+09	7,033834E+09	1,287681E+10
454	2,921538E+09	2,921603E+09	3,516943E+09	3,516920E+09	5,843141E+09	7,033862E+09	1,287700E+10
455	2,921564E+09	2,921514E+09	3,516972E+09	3,516907E+09	5,843078E+09	7,033879E+09	1,287696E+10
456	2,921440E+09	2,921419E+09	3,516928E+09	3,516918E+09	5,842858E+09	7,033845E+09	1,287670E+10
457	2,921535E+09	2,921552E+09	3,516911E+09	3,516934E+09	5,843087E+09	7,033845E+09	1,287693E+10
458	2,921454E+09	2,921422E+09	3,516883E+09	3,516910E+09	5,842877E+09	7,033793E+09	1,287667E+10
459	2,921396E+09	2,921437E+09	3,516867E+09	3,516909E+09	5,842833E+09	7,033776E+09	1,287661E+10
460	2,921513E+09	2,921514E+09	3,516923E+09	3,516883E+09	5,843027E+09	7,033806E+09	1,287683E+10
461	2,921401E+09	2,921373E+09	3,516898E+09	3,516860E+09	5,842774E+09	7,033758E+09	1,287653E+10
462	2,921432E+09	2,921480E+09	3,516917E+09	3,516884E+09	5,842912E+09	7,033801E+09	1,287671E+10
463	2,921507E+09	2,921490E+09	3,516940E+09	3,516904E+09	5,842997E+09	7,033843E+09	1,287684E+10
464	2,921386E+09	2,921415E+09	3,516906E+09	3,516918E+09	5,842801E+09	7,033824E+09	1,287663E+10
465	2,921505E+09	2,921577E+09	3,516925E+09	3,516938E+09	5,843082E+09	7,033864E+09	1,287695E+10
466	2,921538E+09	2,921495E+09	3,516925E+09	3,516908E+09	5,843033E+09	7,033833E+09	1,287687E+10
467	2,921499E+09	2,921497E+09	3,516905E+09	3,516918E+09	5,842996E+09	7,033822E+09	1,287682E+10
468	2,921653E+09	2,921641E+09	3,516941E+09	3,516927E+09	5,843294E+09	7,033867E+09	1,287716E+10
469	2,921573E+09	2,921553E+09	3,516897E+09	3,516903E+09	5,843126E+09	7,033799E+09	1,287693E+10
470	2,921558E+09	2,921645E+09	3,516909E+09	3,516924E+09	5,843202E+09	7,033833E+09	1,287704E+10
471	2,921664E+09	2,921671E+09	3,516953E+09	3,516923E+09	5,843335E+09	7,033875E+09	1,287721E+10
472	2,921537E+09	2,921524E+09	3,516940E+09	3,516898E+09	5,843061E+09	7,033838E+09	1,287690E+10
473	2,921588E+09	2,921630E+09	3,516958E+09	3,516920E+09	5,843218E+09	7,033878E+09	1,287710E+10
474	2,921613E+09	2,921550E+09	3,516929E+09	3,516909E+09	5,843163E+09	7,033838E+09	1,287700E+10
475	2,921481E+09	2,921488E+09	3,516877E+09	3,516929E+09	5,842969E+09	7,033807E+09	1,287678E+10
476	2,921569E+09	2,921604E+09	3,516905E+09	3,516938E+09	5,843174E+09	7,033843E+09	1,287702E+10
477	2,921505E+09	2,921482E+09	3,516882E+09	3,516875E+09	5,842987E+09	7,033758E+09	1,287674E+10
478	2,921448E+09	2,921498E+09	3,516896E+09	3,516873E+09	5,842945E+09	7,033768E+09	1,287671E+10
479	2,921574E+09	2,921544E+09	3,516934E+09	3,516886E+09	5,843118E+09	7,033820E+09	1,287694E+10

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							
480	2,921458E+09	2,921419E+09	3,516913E+09	3,516869E+09	5,842877E+09	7,033782E+09	1,287666E+10
481	2,921459E+09	2,921548E+09	3,516917E+09	3,516915E+09	5,843008E+09	7,033832E+09	1,287684E+10
482	2,921549E+09	2,921547E+09	3,516907E+09	3,516917E+09	5,843096E+09	7,033824E+09	1,287692E+10
483	2,921457E+09	2,921478E+09	3,516883E+09	3,516918E+09	5,842935E+09	7,033801E+09	1,287674E+10
484	2,921587E+09	2,921612E+09	3,516934E+09	3,516930E+09	5,843199E+09	7,033864E+09	1,287706E+10
485	2,921624E+09	2,921562E+09	3,516911E+09	3,516881E+09	5,843186E+09	7,033793E+09	1,287698E+10
486	2,921565E+09	2,921593E+09	3,516901E+09	3,516900E+09	5,843158E+09	7,033801E+09	1,287696E+10
487	2,921703E+09	2,921714E+09	3,516931E+09	3,516938E+09	5,843417E+09	7,033869E+09	1,287729E+10
488	2,921625E+09	2,921621E+09	3,516925E+09	3,516895E+09	5,843246E+09	7,033820E+09	1,287707E+10
489	2,921594E+09	2,921695E+09	3,516946E+09	3,516920E+09	5,843289E+09	7,033866E+09	1,287716E+10
490	2,921712E+09	2,921693E+09	3,516951E+09	3,516920E+09	5,843406E+09	7,033870E+09	1,287728E+10
491	2,921599E+09	2,921561E+09	3,516920E+09	3,516914E+09	5,843160E+09	7,033833E+09	1,287699E+10
492	2,921633E+09	2,921655E+09	3,516942E+09	3,516946E+09	5,843288E+09	7,033889E+09	1,287718E+10
493	2,921656E+09	2,921616E+09	3,516885E+09	3,516907E+09	5,843271E+09	7,033793E+09	1,287706E+10
494	2,921524E+09	2,921562E+09	3,516863E+09	3,516901E+09	5,843086E+09	7,033764E+09	1,287685E+10
495	2,921626E+09	2,921639E+09	3,516905E+09	3,516913E+09	5,843264E+09	7,033819E+09	1,287708E+10
496	2,921575E+09	2,921518E+09	3,516912E+09	3,516836E+09	5,843093E+09	7,033748E+09	1,287684E+10
497	2,921488E+09	2,921547E+09	3,516923E+09	3,516868E+09	5,843035E+09	7,033791E+09	1,287683E+10
498	2,921606E+09	2,921599E+09	3,516912E+09	3,516903E+09	5,843205E+09	7,033815E+09	1,287702E+10
499	2,921496E+09	2,921495E+09	3,516886E+09	3,516903E+09	5,842991E+09	7,033789E+09	1,287678E+10
500	2,921501E+09	2,921593E+09	3,516927E+09	3,516942E+09	5,843095E+09	7,033869E+09	1,287696E+10
501	2,921618E+09	2,921605E+09	3,516901E+09	3,516902E+09	5,843223E+09	7,033803E+09	1,287703E+10
502	2,921540E+09	2,921543E+09	3,516894E+09	3,516891E+09	5,843083E+09	7,033785E+09	1,287687E+10
503	2,921675E+09	2,921658E+09	3,516929E+09	3,516931E+09	5,843333E+09	7,033860E+09	1,287719E+10
504	2,921700E+09	2,921631E+09	3,516912E+09	3,516871E+09	5,843331E+09	7,033784E+09	1,287711E+10
505	2,921600E+09	2,921680E+09	3,516907E+09	3,516908E+09	5,843280E+09	7,033815E+09	1,287709E+10
506	2,921740E+09	2,921774E+09	3,516915E+09	3,516933E+09	5,843514E+09	7,033848E+09	1,287736E+10
507	2,921681E+09	2,921669E+09	3,516923E+09	3,516892E+09	5,843351E+09	7,033815E+09	1,287717E+10
508	2,921652E+09	2,921710E+09	3,516966E+09	3,516927E+09	5,843362E+09	7,033893E+09	1,287725E+10
509	2,921773E+09	2,921735E+09	3,516927E+09	3,516913E+09	5,843509E+09	7,033839E+09	1,287735E+10
510	2,921651E+09	2,921633E+09	3,516896E+09	3,516908E+09	5,843283E+09	7,033804E+09	1,287709E+10
511	2,921680E+09	2,921707E+09	3,516911E+09	3,516955E+09	5,843388E+09	7,033866E+09	1,287725E+10
512	2,921708E+09	2,921673E+09	3,516895E+09	3,516879E+09	5,843381E+09	7,033774E+09	1,287716E+10
513	2,921562E+09	2,921620E+09	3,516896E+09	3,516878E+09	5,843181E+09	7,033774E+09	1,287696E+10
514	2,921668E+09	2,921672E+09	3,516911E+09	3,516897E+09	5,843340E+09	7,033808E+09	1,287715E+10
515	2,921625E+09	2,921568E+09	3,516912E+09	3,516852E+09	5,843193E+09	7,033765E+09	1,287696E+10
516	2,921520E+09	2,921585E+09	3,516928E+09	3,516910E+09	5,843105E+09	7,033838E+09	1,287694E+10
517	2,921638E+09	2,921666E+09	3,516884E+09	3,516920E+09	5,843303E+09	7,033804E+09	1,287711E+10
518	2,921554E+09	2,921563E+09	3,516879E+09	3,516894E+09	5,843118E+09	7,033773E+09	1,287689E+10
519	2,921585E+09	2,921618E+09	3,516920E+09	3,516931E+09	5,843204E+09	7,033851E+09	1,287705E+10
520	2,921719E+09	2,921649E+09	3,516913E+09	3,516865E+09	5,843367E+09	7,033778E+09	1,287715E+10
521	2,921611E+09	2,921616E+09	3,516899E+09	3,516871E+09	5,843228E+09	7,033771E+09	1,287700E+10
522	2,921720E+09	2,921736E+09	3,516901E+09	3,516926E+09	5,843456E+09	7,033826E+09	1,287728E+10
523	2,921745E+09	2,921728E+09	3,516900E+09	3,516884E+09	5,843473E+09	7,033784E+09	1,287726E+10
524	2,921636E+09	2,921731E+09	3,516937E+09	3,516926E+09	5,843367E+09	7,033863E+09	1,287723E+10
525	2,921786E+09	2,921827E+09	3,516924E+09	3,516926E+09	5,843614E+09	7,033850E+09	1,287746E+10
526	2,921750E+09	2,921716E+09	3,516935E+09	3,516886E+09	5,843466E+09	7,033821E+09	1,287729E+10
527	2,921721E+09	2,921729E+09	3,516951E+09	3,516948E+09	5,843450E+09	7,033899E+09	1,287735E+10
528	2,921837E+09	2,921787E+09	3,516908E+09	3,516911E+09	5,843624E+09	7,033819E+09	1,287744E+10

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	2,921686E+09	2,921706E+09	3,516882E+09	3,516902E+09	5,843392E+09	7,033784E+09	1,287718E+10
530	2,921720E+09	2,921757E+09	3,516888E+09	3,516929E+09	5,843477E+09	7,033816E+09	1,287729E+10
531	2,921767E+09	2,921723E+09	3,516896E+09	3,516854E+09	5,843490E+09	7,033750E+09	1,287724E+10
532	2,921610E+09	2,921642E+09	3,516928E+09	3,516877E+09	5,843252E+09	7,033805E+09	1,287706E+10
533	2,921704E+09	2,921725E+09	3,516903E+09	3,516895E+09	5,843429E+09	7,033798E+09	1,287723E+10
534	2,921662E+09	2,921638E+09	3,516907E+09	3,516865E+09	5,843300E+09	7,033772E+09	1,287707E+10
535	2,921565E+09	2,921626E+09	3,516916E+09	3,516938E+09	5,843191E+09	7,033854E+09	1,287705E+10
536	2,921707E+09	2,921707E+09	3,516893E+09	3,516904E+09	5,843414E+09	7,033796E+09	1,287721E+10
537	2,921620E+09	2,921618E+09	3,516896E+09	3,516873E+09	5,843238E+09	7,033768E+09	1,287701E+10
538	2,921662E+09	2,921663E+09	3,516899E+09	3,516911E+09	5,843325E+09	7,033810E+09	1,287714E+10
539	2,921793E+09	2,921722E+09	3,516894E+09	3,516866E+09	5,843515E+09	7,033760E+09	1,287727E+10
540	2,921656E+09	2,921689E+09	3,516902E+09	3,516897E+09	5,843344E+09	7,033800E+09	1,287714E+10
541	2,921752E+09	2,921826E+09	3,516883E+09	3,516924E+09	5,843578E+09	7,033807E+09	1,287739E+10
542	2,921799E+09	2,921802E+09	3,516916E+09	3,516871E+09	5,843601E+09	7,033787E+09	1,287739E+10
543	2,921708E+09	2,921753E+09	3,516949E+09	3,516928E+09	5,843461E+09	7,033876E+09	1,287734E+10
544	2,921870E+09	2,921857E+09	3,516937E+09	3,516908E+09	5,843727E+09	7,033845E+09	1,287757E+10
545	2,921809E+09	2,921777E+09	3,516931E+09	3,516886E+09	5,843586E+09	7,033817E+09	1,287740E+10
546	2,921767E+09	2,921789E+09	3,516904E+09	3,516951E+09	5,843556E+09	7,033854E+09	1,287741E+10
547	2,921885E+09	2,921863E+09	3,516886E+09	3,516910E+09	5,843748E+09	7,033796E+09	1,287754E+10
548	2,921725E+09	2,921752E+09	3,516907E+09	3,516897E+09	5,843477E+09	7,033804E+09	1,287728E+10
549	2,921757E+09	2,921808E+09	3,516899E+09	3,516900E+09	5,843565E+09	7,033798E+09	1,287736E+10
550	2,921822E+09	2,921772E+09	3,516920E+09	3,516843E+09	5,843594E+09	7,033762E+09	1,287736E+10
551	2,921657E+09	2,921660E+09	3,516926E+09	3,516907E+09	5,843317E+09	7,033833E+09	1,287715E+10
552	2,921746E+09	2,921772E+09	3,516895E+09	3,516908E+09	5,843519E+09	7,033803E+09	1,287732E+10
553	2,921698E+09	2,921701E+09	3,516896E+09	3,516871E+09	5,843399E+09	7,033767E+09	1,287717E+10
554	2,921620E+09	2,921660E+09	3,516884E+09	3,516921E+09	5,843280E+09	7,033805E+09	1,287708E+10
555	2,921791E+09	2,921756E+09	3,516881E+09	3,516880E+09	5,843547E+09	7,033761E+09	1,287731E+10
556	2,921694E+09	2,921663E+09	3,516904E+09	3,516865E+09	5,843356E+09	7,033769E+09	1,287712E+10
557	2,921714E+09	2,921750E+09	3,516876E+09	3,516894E+09	5,843464E+09	7,033771E+09	1,287723E+10
558	2,921843E+09	2,921826E+09	3,516888E+09	3,516865E+09	5,843670E+09	7,033753E+09	1,287742E+10
559	2,921702E+09	2,921750E+09	3,516912E+09	3,516917E+09	5,843452E+09	7,033830E+09	1,287728E+10
560	2,921811E+09	2,921881E+09	3,516916E+09	3,516912E+09	5,843692E+09	7,033828E+09	1,287752E+10
561	2,921859E+09	2,921853E+09	3,516949E+09	3,516867E+09	5,843712E+09	7,033816E+09	1,287753E+10
562	2,921780E+09	2,921780E+09	3,516933E+09	3,516932E+09	5,843560E+09	7,033865E+09	1,287742E+10
563	2,921944E+09	2,921910E+09	3,516910E+09	3,516924E+09	5,843854E+09	7,033834E+09	1,287769E+10
564	2,921854E+09	2,921836E+09	3,516913E+09	3,516911E+09	5,843691E+09	7,033824E+09	1,287751E+10
565	2,921804E+09	2,921866E+09	3,516869E+09	3,516931E+09	5,843671E+09	7,033800E+09	1,287747E+10
566	2,921941E+09	2,921926E+09	3,516891E+09	3,516877E+09	5,843867E+09	7,033768E+09	1,287763E+10
567	2,921787E+09	2,921773E+09	3,516924E+09	3,516885E+09	5,843561E+09	7,033809E+09	1,287737E+10
568	2,921816E+09	2,921840E+09	3,516916E+09	3,516874E+09	5,843656E+09	7,033789E+09	1,287745E+10
569	2,921851E+09	2,921831E+09	3,516925E+09	3,516849E+09	5,843682E+09	7,033774E+09	1,287746E+10
570	2,921687E+09	2,921709E+09	3,516889E+09	3,516924E+09	5,843396E+09	7,033813E+09	1,287721E+10
571	2,921791E+09	2,921825E+09	3,516877E+09	3,516918E+09	5,843617E+09	7,033795E+09	1,287741E+10
572	2,921748E+09	2,921740E+09	3,516909E+09	3,516877E+09	5,843487E+09	7,033787E+09	1,287727E+10
573	2,921681E+09	2,921716E+09	3,516868E+09	3,516893E+09	5,843397E+09	7,033761E+09	1,287716E+10
574	2,921869E+09	2,921822E+09	3,516882E+09	3,516863E+09	5,843691E+09	7,033745E+09	1,287744E+10
575	2,921757E+09	2,921719E+09	3,516898E+09	3,516881E+09	5,843477E+09	7,033779E+09	1,287726E+10
576	2,921764E+09	2,921830E+09	3,516879E+09	3,516888E+09	5,843594E+09	7,033767E+09	1,287736E+10
577	2,921883E+09	2,921910E+09	3,516907E+09	3,516862E+09	5,843792E+09	7,033770E+09	1,287756E+10

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							
578	2,921763E+09	2,921788E+09	3,516910E+09	3,516911E+09	5,843551E+09	7,033820E+09	1,287737E+10
579	2,921893E+09	2,921919E+09	3,516924E+09	3,516908E+09	5,843812E+09	7,033832E+09	1,287764E+10
580	2,921930E+09	2,921890E+09	3,516954E+09	3,516886E+09	5,843821E+09	7,033840E+09	1,287766E+10
581	2,921832E+09	2,921855E+09	3,516890E+09	3,516932E+09	5,843687E+09	7,033823E+09	1,287751E+10
582	2,922002E+09	2,921999E+09	3,516886E+09	3,516924E+09	5,844002E+09	7,033810E+09	1,287781E+10
583	2,921907E+09	2,921888E+09	3,516908E+09	3,516910E+09	5,843795E+09	7,033818E+09	1,287761E+10
584	2,921859E+09	2,921919E+09	3,516893E+09	3,516892E+09	5,843778E+09	7,033786E+09	1,287756E+10
585	2,921988E+09	2,921978E+09	3,516922E+09	3,516853E+09	5,843966E+09	7,033775E+09	1,287774E+10
586	2,921832E+09	2,921795E+09	3,516916E+09	3,516889E+09	5,843626E+09	7,033805E+09	1,287743E+10
587	2,921854E+09	2,921885E+09	3,516903E+09	3,516899E+09	5,843740E+09	7,033802E+09	1,287754E+10
588	2,921872E+09	2,921876E+09	3,516914E+09	3,516887E+09	5,843748E+09	7,033801E+09	1,287755E+10
589	2,921718E+09	2,921765E+09	3,516853E+09	3,516915E+09	5,843483E+09	7,033767E+09	1,287725E+10
590	2,921864E+09	2,921872E+09	3,516869E+09	3,516892E+09	5,843736E+09	7,033761E+09	1,287750E+10
591	2,921828E+09	2,921766E+09	3,516907E+09	3,516862E+09	5,843594E+09	7,033769E+09	1,287736E+10
592	2,921759E+09	2,921776E+09	3,516872E+09	3,516858E+09	5,843534E+09	7,033730E+09	1,287726E+10
593	2,921916E+09	2,921913E+09	3,516888E+09	3,516854E+09	5,843829E+09	7,033742E+09	1,287757E+10
594	2,921798E+09	2,921793E+09	3,516885E+09	3,516890E+09	5,843591E+09	7,033775E+09	1,287737E+10
595	2,921814E+09	2,921898E+09	3,516896E+09	3,516896E+09	5,843712E+09	7,033792E+09	1,287750E+10
596	2,921930E+09	2,921955E+09	3,516943E+09	3,516885E+09	5,843885E+09	7,033828E+09	1,287771E+10
597	2,921827E+09	2,921839E+09	3,516902E+09	3,516908E+09	5,843666E+09	7,033810E+09	1,287748E+10
598	2,921978E+09	2,921970E+09	3,516912E+09	3,516918E+09	5,843948E+09	7,033830E+09	1,287778E+10
599	2,921999E+09	2,921944E+09	3,516926E+09	3,516914E+09	5,843943E+09	7,033840E+09	1,287778E+10
600	2,921895E+09	2,921935E+09	3,516862E+09	3,516914E+09	5,843830E+09	7,033776E+09	1,287761E+10
601	2,922047E+09	2,922077E+09	3,516890E+09	3,516892E+09	5,844123E+09	7,033783E+09	1,287791E+10
602	2,921964E+09	2,921929E+09	3,516905E+09	3,516878E+09	5,843893E+09	7,033784E+09	1,287768E+10
603	2,921920E+09	2,921954E+09	3,516911E+09	3,516871E+09	5,843874E+09	7,033782E+09	1,287766E+10
604	2,922019E+09	2,922015E+09	3,516940E+09	3,516873E+09	5,844034E+09	7,033813E+09	1,287785E+10
605	2,921853E+09	2,921855E+09	3,516884E+09	3,516900E+09	5,843708E+09	7,033784E+09	1,287749E+10
606	2,921892E+09	2,921943E+09	3,516886E+09	3,516915E+09	5,843835E+09	7,033801E+09	1,287764E+10
607	2,921919E+09	2,921905E+09	3,516911E+09	3,516900E+09	5,843824E+09	7,033811E+09	1,287764E+10
608	2,921786E+09	2,921807E+09	3,516859E+09	3,516878E+09	5,843594E+09	7,033738E+09	1,287733E+10
609	2,921931E+09	2,921926E+09	3,516886E+09	3,516864E+09	5,843857E+09	7,033750E+09	1,287761E+10
610	2,921894E+09	2,921811E+09	3,516891E+09	3,516857E+09	5,843706E+09	7,033748E+09	1,287745E+10
611	2,921810E+09	2,921849E+09	3,516868E+09	3,516868E+09	5,843660E+09	7,033736E+09	1,287740E+10
612	2,921940E+09	2,921988E+09	3,516897E+09	3,516884E+09	5,843928E+09	7,033780E+09	1,287771E+10
613	2,921834E+09	2,921860E+09	3,516876E+09	3,516886E+09	5,843694E+09	7,033762E+09	1,287746E+10
614	2,921891E+09	2,921946E+09	3,516906E+09	3,516894E+09	5,843836E+09	7,033801E+09	1,287764E+10
615	2,922013E+09	2,921979E+09	3,516942E+09	3,516895E+09	5,843991E+09	7,033837E+09	1,287783E+10
616	2,921911E+09	2,921899E+09	3,516884E+09	3,516893E+09	5,843810E+09	7,033777E+09	1,287759E+10
617	2,922039E+09	2,922060E+09	3,516893E+09	3,516910E+09	5,844099E+09	7,033803E+09	1,287790E+10
618	2,922053E+09	2,922015E+09	3,516894E+09	3,516907E+09	5,844067E+09	7,033800E+09	1,287787E+10
619	2,921952E+09	2,922002E+09	3,516878E+09	3,516892E+09	5,843954E+09	7,033770E+09	1,287772E+10
620	2,922086E+09	2,922123E+09	3,516928E+09	3,516888E+09	5,844209E+09	7,033816E+09	1,287802E+10
621	2,922004E+09	2,921972E+09	3,516911E+09	3,516865E+09	5,843976E+09	7,033777E+09	1,287775E+10
622	2,921971E+09	2,921994E+09	3,516912E+09	3,516890E+09	5,843966E+09	7,033801E+09	1,287777E+10
623	2,922050E+09	2,922047E+09	3,516922E+09	3,516915E+09	5,844098E+09	7,033837E+09	1,287793E+10
624	2,921896E+09	2,921909E+09	3,516860E+09	3,516896E+09	5,843804E+09	7,033757E+09	1,287756E+10
625	2,921943E+09	2,921990E+09	3,516884E+09	3,516892E+09	5,843933E+09	7,033776E+09	1,287771E+10
626	2,921991E+09	2,921930E+09	3,516894E+09	3,516872E+09	5,843921E+09	7,033766E+09	1,287769E+10

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	2,921867E+09	2,921852E+09	3,516864E+09	3,516849E+09	5,843718E+09	7,033713E+09	1,287743E+10
628	2,921971E+09	2,921990E+09	3,516896E+09	3,516872E+09	5,843960E+09	7,033768E+09	1,287773E+10
629	2,921922E+09	2,921902E+09	3,516869E+09	3,516858E+09	5,843825E+09	7,033727E+09	1,287755E+10
630	2,921854E+09	2,921924E+09	3,516869E+09	3,516884E+09	5,843778E+09	7,033753E+09	1,287753E+10
631	2,921982E+09	2,922032E+09	3,516916E+09	3,516907E+09	5,844014E+09	7,033823E+09	1,287784E+10
632	2,921909E+09	2,921909E+09	3,516888E+09	3,516868E+09	5,843817E+09	7,033756E+09	1,287757E+10
633	2,921967E+09	2,921992E+09	3,516918E+09	3,516885E+09	5,843959E+09	7,033803E+09	1,287776E+10
634	2,922091E+09	2,922025E+09	3,516911E+09	3,516904E+09	5,844116E+09	7,033815E+09	1,287793E+10
635	2,921982E+09	2,921976E+09	3,516862E+09	3,516892E+09	5,843958E+09	7,033754E+09	1,287771E+10
636	2,922078E+09	2,922139E+09	3,516890E+09	3,516916E+09	5,844217E+09	7,033806E+09	1,287802E+10
637	2,922098E+09	2,922085E+09	3,516883E+09	3,516873E+09	5,844184E+09	7,033756E+09	1,287794E+10
638	2,922021E+09	2,922049E+09	3,516895E+09	3,516873E+09	5,844071E+09	7,033767E+09	1,287784E+10
639	2,922137E+09	2,922150E+09	3,516944E+09	3,516898E+09	5,844286E+09	7,033842E+09	1,287813E+10
640	2,922054E+09	2,922025E+09	3,516906E+09	3,516863E+09	5,844079E+09	7,033769E+09	1,287785E+10
641	2,922004E+09	2,922057E+09	3,516907E+09	3,516900E+09	5,844061E+09	7,033807E+09	1,287787E+10
642	2,922091E+09	2,922085E+09	3,516895E+09	3,516925E+09	5,844176E+09	7,033821E+09	1,287800E+10
643	2,921955E+09	2,921950E+09	3,516867E+09	3,516879E+09	5,843905E+09	7,033747E+09	1,287765E+10
644	2,921994E+09	2,922030E+09	3,516899E+09	3,516887E+09	5,844023E+09	7,033786E+09	1,287781E+10
645	2,922043E+09	2,921979E+09	3,516879E+09	3,516850E+09	5,844022E+09	7,033729E+09	1,287775E+10
646	2,921926E+09	2,921916E+09	3,516856E+09	3,516860E+09	5,843842E+09	7,033716E+09	1,287756E+10
647	2,922000E+09	2,922049E+09	3,516886E+09	3,516899E+09	5,844049E+09	7,033784E+09	1,287783E+10
648	2,921963E+09	2,921973E+09	3,516866E+09	3,516848E+09	5,843935E+09	7,033713E+09	1,287765E+10
649	2,921909E+09	2,921977E+09	3,516891E+09	3,516865E+09	5,843886E+09	7,033756E+09	1,287764E+10
650	2,922059E+09	2,922052E+09	3,516909E+09	3,516896E+09	5,844111E+09	7,033805E+09	1,287792E+10
651	2,922000E+09	2,921952E+09	3,516890E+09	3,516856E+09	5,843952E+09	7,033746E+09	1,287770E+10
652	2,922027E+09	2,922060E+09	3,516905E+09	3,516902E+09	5,844087E+09	7,033807E+09	1,287789E+10
653	2,922138E+09	2,922116E+09	3,516873E+09	3,516896E+09	5,844255E+09	7,033769E+09	1,287802E+10
654	2,922046E+09	2,922061E+09	3,516857E+09	3,516889E+09	5,844107E+09	7,033746E+09	1,287785E+10
655	2,922125E+09	2,922192E+09	3,516914E+09	3,516914E+09	5,844317E+09	7,033828E+09	1,287814E+10
656	2,922163E+09	2,922142E+09	3,516907E+09	3,516846E+09	5,844306E+09	7,033754E+09	1,287806E+10
657	2,922079E+09	2,922094E+09	3,516921E+09	3,516870E+09	5,844174E+09	7,033791E+09	1,287797E+10
658	2,922182E+09	2,922184E+09	3,516923E+09	3,516925E+09	5,844366E+09	7,033849E+09	1,287821E+10
659	2,922102E+09	2,922079E+09	3,516890E+09	3,516881E+09	5,844181E+09	7,033771E+09	1,287795E+10
660	2,922033E+09	2,922105E+09	3,516897E+09	3,516917E+09	5,844138E+09	7,033814E+09	1,287795E+10
661	2,922141E+09	2,922128E+09	3,516873E+09	3,516894E+09	5,844268E+09	7,033767E+09	1,287804E+10
662	2,922036E+09	2,921987E+09	3,516858E+09	3,516852E+09	5,844023E+09	7,033710E+09	1,287773E+10
663	2,922046E+09	2,922068E+09	3,516898E+09	3,516880E+09	5,844114E+09	7,033778E+09	1,287789E+10
664	2,922093E+09	2,922058E+09	3,516865E+09	3,516829E+09	5,844150E+09	7,033694E+09	1,287784E+10
665	2,921958E+09	2,921993E+09	3,516865E+09	3,516856E+09	5,843950E+09	7,033721E+09	1,287767E+10
666	2,922033E+09	2,922096E+09	3,516887E+09	3,516906E+09	5,844130E+09	7,033793E+09	1,287792E+10
667	2,922025E+09	2,922014E+09	3,516895E+09	3,516840E+09	5,844039E+09	7,033735E+09	1,287777E+10
668	2,921966E+09	2,922013E+09	3,516913E+09	3,516878E+09	5,843979E+09	7,033791E+09	1,287777E+10
669	2,922128E+09	2,922098E+09	3,516886E+09	3,516893E+09	5,844226E+09	7,033779E+09	1,287800E+10
670	2,922080E+09	2,922024E+09	3,516858E+09	3,516874E+09	5,844104E+09	7,033732E+09	1,287784E+10
671	2,922078E+09	2,922138E+09	3,516880E+09	3,516922E+09	5,844216E+09	7,033802E+09	1,287802E+10
672	2,922201E+09	2,922204E+09	3,516863E+09	3,516866E+09	5,844405E+09	7,033729E+09	1,287813E+10
673	2,922112E+09	2,922127E+09	3,516888E+09	3,516854E+09	5,844240E+09	7,033742E+09	1,287798E+10
674	2,922191E+09	2,922225E+09	3,516924E+09	3,516900E+09	5,844417E+09	7,033823E+09	1,287824E+10
675	2,922230E+09	2,922187E+09	3,516927E+09	3,516845E+09	5,844418E+09	7,033772E+09	1,287819E+10

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							
676	2,922112E+09	2,922153E+09	3,516919E+09	3,516905E+09	5,844265E+09	7,033825E+09	1,287809E+10
677	2,922210E+09	2,922241E+09	3,516887E+09	3,516933E+09	5,844451E+09	7,033820E+09	1,287827E+10
678	2,922159E+09	2,922132E+09	3,516873E+09	3,516887E+09	5,844291E+09	7,033760E+09	1,287805E+10
679	2,922085E+09	2,922135E+09	3,516894E+09	3,516910E+09	5,844220E+09	7,033804E+09	1,287802E+10
680	2,922207E+09	2,922172E+09	3,516870E+09	3,516853E+09	5,844379E+09	7,033723E+09	1,287810E+10
681	2,922096E+09	2,922040E+09	3,516872E+09	3,516829E+09	5,844136E+09	7,033701E+09	1,287784E+10
682	2,922083E+09	2,922116E+09	3,516879E+09	3,516886E+09	5,844199E+09	7,033765E+09	1,287796E+10
683	2,922131E+09	2,922122E+09	3,516869E+09	3,516833E+09	5,844253E+09	7,033702E+09	1,287795E+10
684	2,921985E+09	2,922044E+09	3,516878E+09	3,516871E+09	5,844029E+09	7,033749E+09	1,287778E+10
685	2,922082E+09	2,922130E+09	3,516881E+09	3,516889E+09	5,844211E+09	7,033769E+09	1,287798E+10
686	2,922112E+09	2,922053E+09	3,516886E+09	3,516842E+09	5,844166E+09	7,033727E+09	1,287789E+10
687	2,922034E+09	2,922060E+09	3,516895E+09	3,516895E+09	5,844094E+09	7,033790E+09	1,287788E+10
688	2,922197E+09	2,922189E+09	3,516856E+09	3,516882E+09	5,844386E+09	7,033738E+09	1,287812E+10
689	2,922142E+09	2,922122E+09	3,516857E+09	3,516860E+09	5,844264E+09	7,033717E+09	1,287798E+10
690	2,922133E+09	2,922207E+09	3,516882E+09	3,516910E+09	5,844340E+09	7,033793E+09	1,287813E+10
691	2,922274E+09	2,922266E+09	3,516902E+09	3,516844E+09	5,844539E+09	7,033746E+09	1,287829E+10
692	2,922164E+09	2,922174E+09	3,516925E+09	3,516867E+09	5,844338E+09	7,033792E+09	1,287813E+10
693	2,922238E+09	2,922269E+09	3,516917E+09	3,516909E+09	5,844506E+09	7,033826E+09	1,287833E+10
694	2,922288E+09	2,922244E+09	3,516897E+09	3,516881E+09	5,844532E+09	7,033777E+09	1,287831E+10
695	2,922145E+09	2,922200E+09	3,516891E+09	3,516934E+09	5,844345E+09	7,033825E+09	1,287817E+10
696	2,922269E+09	2,922294E+09	3,516862E+09	3,516902E+09	5,844563E+09	7,033764E+09	1,287833E+10
697	2,922229E+09	2,922173E+09	3,516878E+09	3,516840E+09	5,844403E+09	7,033718E+09	1,287812E+10
698	2,922151E+09	2,922164E+09	3,516884E+09	3,516879E+09	5,844315E+09	7,033763E+09	1,287808E+10
699	2,922269E+09	2,922224E+09	3,516877E+09	3,516831E+09	5,844494E+09	7,033708E+09	1,287820E+10
700	2,922115E+09	2,922112E+09	3,516879E+09	3,516848E+09	5,844226E+09	7,033726E+09	1,287795E+10
701	2,922095E+09	2,922178E+09	3,516868E+09	3,516889E+09	5,844273E+09	7,033757E+09	1,287803E+10
702	2,922175E+09	2,922173E+09	3,516874E+09	3,516850E+09	5,844348E+09	7,033724E+09	1,287807E+10
703	2,922032E+09	2,922074E+09	3,516891E+09	3,516889E+09	5,844106E+09	7,033780E+09	1,287789E+10
704	2,922159E+09	2,922170E+09	3,516874E+09	3,516875E+09	5,844330E+09	7,033749E+09	1,287808E+10
705	2,922192E+09	2,922114E+09	3,516881E+09	3,516838E+09	5,844306E+09	7,033719E+09	1,287803E+10
706	2,922099E+09	2,922130E+09	3,516857E+09	3,516905E+09	5,844229E+09	7,033761E+09	1,287799E+10
707	2,922263E+09	2,922272E+09	3,516853E+09	3,516870E+09	5,844535E+09	7,033723E+09	1,287826E+10
708	2,922192E+09	2,922199E+09	3,516880E+09	3,516852E+09	5,844391E+09	7,033732E+09	1,287812E+10
709	2,922191E+09	2,922252E+09	3,516890E+09	3,516877E+09	5,844443E+09	7,033767E+09	1,287821E+10
710	2,922349E+09	2,922316E+09	3,516907E+09	3,516849E+09	5,844665E+09	7,033757E+09	1,287842E+10
711	2,922214E+09	2,922222E+09	3,516917E+09	3,516896E+09	5,844436E+09	7,033813E+09	1,287825E+10
712	2,922285E+09	2,922336E+09	3,516888E+09	3,516912E+09	5,844621E+09	7,033800E+09	1,287842E+10
713	2,922340E+09	2,922312E+09	3,516891E+09	3,516876E+09	5,844651E+09	7,033767E+09	1,287842E+10
714	2,922201E+09	2,922240E+09	3,516874E+09	3,516922E+09	5,844441E+09	7,033796E+09	1,287824E+10
715	2,922342E+09	2,922332E+09	3,516879E+09	3,516868E+09	5,844675E+09	7,033747E+09	1,287842E+10
716	2,922279E+09	2,922220E+09	3,516895E+09	3,516831E+09	5,844499E+09	7,033727E+09	1,287823E+10
717	2,922185E+09	2,922212E+09	3,516869E+09	3,516869E+09	5,844397E+09	7,033739E+09	1,287814E+10
718	2,922303E+09	2,922295E+09	3,516856E+09	3,516857E+09	5,844599E+09	7,033713E+09	1,287831E+10
719	2,922131E+09	2,922164E+09	3,516874E+09	3,516879E+09	5,844295E+09	7,033753E+09	1,287805E+10
720	2,922139E+09	2,922222E+09	3,516868E+09	3,516873E+09	5,844361E+09	7,033741E+09	1,287810E+10
721	2,922246E+09	2,922207E+09	3,516891E+09	3,516829E+09	5,844453E+09	7,033720E+09	1,287817E+10
722	2,922108E+09	2,922103E+09	3,516873E+09	3,516884E+09	5,844211E+09	7,033757E+09	1,287797E+10
723	2,922243E+09	2,922231E+09	3,516865E+09	3,516867E+09	5,844473E+09	7,033732E+09	1,287821E+10
724	2,922239E+09	2,922203E+09	3,516871E+09	3,516848E+09	5,844442E+09	7,033719E+09	1,287816E+10

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	2,922143E+09	2,922210E+09	3,516845E+09	3,516887E+09	5,844354E+09	7,033732E+09	1,287809E+10
726	2,922328E+09	2,922345E+09	3,516861E+09	3,516864E+09	5,844674E+09	7,033725E+09	1,287840E+10
727	2,922243E+09	2,922246E+09	3,516909E+09	3,516860E+09	5,844489E+09	7,033769E+09	1,287826E+10
728	2,922256E+09	2,922303E+09	3,516900E+09	3,516870E+09	5,844559E+09	7,033770E+09	1,287833E+10
729	2,922410E+09	2,922373E+09	3,516909E+09	3,516863E+09	5,844783E+09	7,033772E+09	1,287855E+10
730	2,922264E+09	2,922277E+09	3,516879E+09	3,516924E+09	5,844542E+09	7,033803E+09	1,287834E+10
731	2,922351E+09	2,922390E+09	3,516876E+09	3,516905E+09	5,844740E+09	7,033781E+09	1,287852E+10
732	2,922392E+09	2,922364E+09	3,516894E+09	3,516860E+09	5,844756E+09	7,033755E+09	1,287851E+10
733	2,922263E+09	2,922276E+09	3,516862E+09	3,516878E+09	5,844538E+09	7,033740E+09	1,287828E+10
734	2,922408E+09	2,922384E+09	3,516869E+09	3,516859E+09	5,844792E+09	7,033728E+09	1,287852E+10
735	2,922307E+09	2,922279E+09	3,516894E+09	3,516849E+09	5,844587E+09	7,033743E+09	1,287833E+10
736	2,922209E+09	2,922283E+09	3,516859E+09	3,516868E+09	5,844492E+09	7,033727E+09	1,287822E+10
737	2,922331E+09	2,922355E+09	3,516875E+09	3,516858E+09	5,844687E+09	7,033733E+09	1,287842E+10
738	2,922177E+09	2,922192E+09	3,516877E+09	3,516885E+09	5,844369E+09	7,033762E+09	1,287813E+10
739	2,92215E+09	2,922241E+09	3,516891E+09	3,516862E+09	5,844455E+09	7,033752E+09	1,287821E+10
740	2,922309E+09	2,922248E+09	3,516900E+09	3,516838E+09	5,844557E+09	7,033738E+09	1,287830E+10
741	2,922168E+09	2,922155E+09	3,516834E+09	3,516877E+09	5,844323E+09	7,033711E+09	1,287803E+10
742	2,922302E+09	2,922316E+09	3,516826E+09	3,516881E+09	5,844618E+09	7,033707E+09	1,287833E+10
743	2,922282E+09	2,922281E+09	3,516864E+09	3,516852E+09	5,844563E+09	7,033716E+09	1,287828E+10
744	2,922203E+09	2,922274E+09	3,516853E+09	3,516849E+09	5,844477E+09	7,033702E+09	1,287818E+10
745	2,922398E+09	2,922402E+09	3,516892E+09	3,516839E+09	5,844800E+09	7,033731E+09	1,287853E+10
746	2,922312E+09	2,922289E+09	3,516905E+09	3,516869E+09	5,844601E+09	7,033774E+09	1,287838E+10
747	2,922325E+09	2,922360E+09	3,516901E+09	3,516882E+09	5,844685E+09	7,033782E+09	1,287847E+10
748	2,922449E+09	2,922450E+09	3,516902E+09	3,516886E+09	5,844900E+09	7,033788E+09	1,287869E+10
749	2,922312E+09	2,922335E+09	3,516855E+09	3,516912E+09	5,844647E+09	7,033767E+09	1,287841E+10
750	2,922421E+09	2,922447E+09	3,516867E+09	3,516898E+09	5,844868E+09	7,033764E+09	1,287863E+10
751	2,922447E+09	2,922407E+09	3,516906E+09	3,516856E+09	5,844854E+09	7,033761E+09	1,287862E+10
752	2,922319E+09	2,922327E+09	3,516865E+09	3,516855E+09	5,844646E+09	7,033720E+09	1,287837E+10
753	2,922448E+09	2,922447E+09	3,516875E+09	3,516859E+09	5,844895E+09	7,033734E+09	1,287863E+10
754	2,922333E+09	2,922332E+09	3,516878E+09	3,516872E+09	5,844665E+09	7,033750E+09	1,287842E+10
755	2,922256E+09	2,922319E+09	3,516874E+09	3,516865E+09	5,844575E+09	7,033739E+09	1,287831E+10
756	2,922373E+09	2,922384E+09	3,516892E+09	3,516853E+09	5,844756E+09	7,033746E+09	1,287850E+10
757	2,922240E+09	2,922211E+09	3,516861E+09	3,516861E+09	5,844451E+09	7,033723E+09	1,287817E+10
758	2,922294E+09	2,922287E+09	3,516856E+09	3,516865E+09	5,844581E+09	7,033721E+09	1,287830E+10
759	2,922353E+09	2,922315E+09	3,516875E+09	3,516854E+09	5,844669E+09	7,033728E+09	1,287840E+10
760	2,922215E+09	2,922246E+09	3,516814E+09	3,516858E+09	5,844461E+09	7,033672E+09	1,287813E+10
761	2,922351E+09	2,922398E+09	3,516844E+09	3,516858E+09	5,844749E+09	7,033703E+09	1,287845E+10
762	2,922338E+09	2,922336E+09	3,516882E+09	3,516846E+09	5,844675E+09	7,033728E+09	1,287840E+10
763	2,922282E+09	2,922314E+09	3,516891E+09	3,516839E+09	5,844596E+09	7,033730E+09	1,287833E+10
764	2,922450E+09	2,922455E+09	3,516913E+09	3,516860E+09	5,844905E+09	7,033773E+09	1,287868E+10
765	2,922365E+09	2,922345E+09	3,516875E+09	3,516887E+09	5,844710E+09	7,033762E+09	1,287847E+10
766	2,922386E+09	2,922432E+09	3,516861E+09	3,516912E+09	5,844818E+09	7,033773E+09	1,287859E+10
767	2,922500E+09	2,922507E+09	3,516892E+09	3,516894E+09	5,845007E+09	7,033786E+09	1,287879E+10
768	2,922386E+09	2,922387E+09	3,516850E+09	3,516865E+09	5,844773E+09	7,033714E+09	1,287849E+10
769	2,922496E+09	2,922499E+09	3,516880E+09	3,516859E+09	5,844995E+09	7,033738E+09	1,287873E+10
770	2,922506E+09	2,922458E+09	3,516897E+09	3,516851E+09	5,844964E+09	7,033748E+09	1,287871E+10
771	2,922368E+09	2,922383E+09	3,516875E+09	3,516854E+09	5,844751E+09	7,033729E+09	1,287848E+10
772	2,922460E+09	2,922516E+09	3,516890E+09	3,516875E+09	5,844976E+09	7,033765E+09	1,287874E+10
773	2,922363E+09	2,922366E+09	3,516871E+09	3,516867E+09	5,844729E+09	7,033738E+09	1,287847E+10

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	2,922311E+09	2,922348E+09	3,516868E+09	3,516874E+09	5,844660E+09	7,033743E+09	1,287840E+10
775	2,922425E+09	2,922408E+09	3,516894E+09	3,516865E+09	5,844833E+09	7,033759E+09	1,287859E+10
776	2,922304E+09	2,922256E+09	3,516836E+09	3,516845E+09	5,844560E+09	7,033681E+09	1,287824E+10
777	2,922350E+09	2,922365E+09	3,516834E+09	3,516861E+09	5,844715E+09	7,033695E+09	1,287841E+10
778	2,922400E+09	2,922392E+09	3,516846E+09	3,516857E+09	5,844792E+09	7,033703E+09	1,287850E+10
779	2,922281E+09	2,922307E+09	3,516837E+09	3,516831E+09	5,844587E+09	7,033668E+09	1,287826E+10
780	2,922400E+09	2,922456E+09	3,516883E+09	3,516837E+09	5,844856E+09	7,033721E+09	1,287858E+10
781	2,922403E+09	2,922374E+09	3,516888E+09	3,516831E+09	5,844777E+09	7,033719E+09	1,287850E+10
782	2,922354E+09	2,922371E+09	3,516878E+09	3,516866E+09	5,844726E+09	7,033744E+09	1,287847E+10
783	2,922493E+09	2,922522E+09	3,516900E+09	3,516898E+09	5,845014E+09	7,033798E+09	1,287881E+10
784	2,922421E+09	2,922423E+09	3,516853E+09	3,516882E+09	5,844844E+09	7,033735E+09	1,287858E+10
785	2,922456E+09	2,922503E+09	3,516862E+09	3,516895E+09	5,844959E+09	7,033757E+09	1,287872E+10
786	2,922571E+09	2,922556E+09	3,516894E+09	3,516881E+09	5,845126E+09	7,033775E+09	1,287890E+10
787	2,922473E+09	2,922429E+09	3,516877E+09	3,516839E+09	5,844902E+09	7,033716E+09	1,287862E+10
788	2,922537E+09	2,922556E+09	3,516897E+09	3,516856E+09	5,845093E+09	7,033753E+09	1,287885E+10
789	2,922536E+09	2,922514E+09	3,516874E+09	3,516859E+09	5,845050E+09	7,033733E+09	1,287878E+10
790	2,922405E+09	2,922442E+09	3,516849E+09	3,516879E+09	5,844847E+09	7,033728E+09	1,287857E+10
791	2,922482E+09	2,922546E+09	3,516893E+09	3,516887E+09	5,845028E+09	7,033780E+09	1,287881E+10
792	2,922419E+09	2,922393E+09	3,516865E+09	3,516837E+09	5,844812E+09	7,033702E+09	1,287851E+10
793	2,922383E+09	2,922384E+09	3,516858E+09	3,516854E+09	5,844767E+09	7,033712E+09	1,287848E+10
794	2,922486E+09	2,922454E+09	3,516865E+09	3,516868E+09	5,844939E+09	7,033733E+09	1,287867E+10
795	2,922368E+09	2,922326E+09	3,516828E+09	3,516830E+09	5,844695E+09	7,033658E+09	1,287835E+10
796	2,922379E+09	2,922451E+09	3,516846E+09	3,516848E+09	5,844829E+09	7,033694E+09	1,287852E+10
797	2,922446E+09	2,922452E+09	3,516853E+09	3,516835E+09	5,844897E+09	7,033688E+09	1,287859E+10
798	2,922346E+09	2,922357E+09	3,516855E+09	3,516837E+09	5,844704E+09	7,033692E+09	1,287840E+10
799	2,922448E+09	2,922494E+09	3,516911E+09	3,516862E+09	5,844941E+09	7,033773E+09	1,287871E+10
800	2,922464E+09	2,922428E+09	3,516878E+09	3,516841E+09	5,844892E+09	7,033719E+09	1,287861E+10
801	2,922416E+09	2,922447E+09	3,516854E+09	3,516888E+09	5,844863E+09	7,033741E+09	1,287860E+10
802	2,922557E+09	2,922587E+09	3,516869E+09	3,516914E+09	5,845143E+09	7,033783E+09	1,287893E+10
803	2,922512E+09	2,922475E+09	3,516857E+09	3,516850E+09	5,844987E+09	7,033707E+09	1,287869E+10
804	2,922527E+09	2,922565E+09	3,516880E+09	3,516857E+09	5,845092E+09	7,033737E+09	1,287883E+10
805	2,922643E+09	2,922604E+09	3,516880E+09	3,516849E+09	5,845247E+09	7,033729E+09	1,287898E+10
806	2,922529E+09	2,922497E+09	3,516863E+09	3,516850E+09	5,845025E+09	7,033713E+09	1,287874E+10
807	2,922548E+09	2,922625E+09	3,516899E+09	3,516884E+09	5,845173E+09	7,033782E+09	1,287896E+10
808	2,922559E+09	2,922573E+09	3,516868E+09	3,516855E+09	5,845131E+09	7,033724E+09	1,287885E+10
809	2,922448E+09	2,922486E+09	3,516858E+09	3,516876E+09	5,844934E+09	7,033734E+09	1,287867E+10
810	2,922540E+09	2,922563E+09	3,516890E+09	3,516889E+09	5,845103E+09	7,033780E+09	1,287888E+10
811	2,922502E+09	2,922415E+09	3,516872E+09	3,516820E+09	5,844917E+09	7,033691E+09	1,287861E+10
812	2,922431E+09	2,922444E+09	3,516851E+09	3,516847E+09	5,844875E+09	7,033698E+09	1,287857E+10
813	2,922529E+09	2,922519E+09	3,516827E+09	3,516862E+09	5,845048E+09	7,033688E+09	1,287874E+10
814	2,922419E+09	2,922401E+09	3,516814E+09	3,516833E+09	5,844820E+09	7,033647E+09	1,287847E+10
815	2,922412E+09	2,922501E+09	3,516873E+09	3,516842E+09	5,844913E+09	7,033715E+09	1,287863E+10
816	2,922504E+09	2,922496E+09	3,516868E+09	3,516809E+09	5,845000E+09	7,033677E+09	1,287868E+10
817	2,922418E+09	2,922410E+09	3,516860E+09	3,516840E+09	5,844828E+09	7,033700E+09	1,287853E+10
818	2,922506E+09	2,922546E+09	3,516892E+09	3,516894E+09	5,845052E+09	7,033786E+09	1,287884E+10
819	2,922539E+09	2,922499E+09	3,516869E+09	3,516850E+09	5,845038E+09	7,033719E+09	1,287876E+10
820	2,922471E+09	2,922528E+09	3,516851E+09	3,516880E+09	5,845000E+09	7,033730E+09	1,287873E+10
821	2,922627E+09	2,922643E+09	3,516857E+09	3,516889E+09	5,845270E+09	7,033746E+09	1,287902E+10
822	2,922597E+09	2,922537E+09	3,516857E+09	3,516836E+09	5,845134E+09	7,033693E+09	1,287883E+10

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	2,922574E+09	2,922615E+09	3,516898E+09	3,516858E+09	5,845189E+09	7,033756E+09	1,287895E+10
824	2,922684E+09	2,922670E+09	3,516871E+09	3,516846E+09	5,845355E+09	7,033718E+09	1,287907E+10
825	2,922565E+09	2,922571E+09	3,516848E+09	3,516869E+09	5,845136E+09	7,033717E+09	1,287885E+10
826	2,922578E+09	2,922666E+09	3,516890E+09	3,516903E+09	5,845244E+09	7,033793E+09	1,287904E+10
827	2,922626E+09	2,922594E+09	3,516883E+09	3,516833E+09	5,845221E+09	7,033716E+09	1,287894E+10
828	2,922507E+09	2,922517E+09	3,516866E+09	3,516848E+09	5,845024E+09	7,033715E+09	1,287874E+10
829	2,922608E+09	2,922590E+09	3,516860E+09	3,516871E+09	5,845198E+09	7,033731E+09	1,287893E+10
830	2,922563E+09	2,922480E+09	3,516840E+09	3,516824E+09	5,845044E+09	7,033664E+09	1,287871E+10
831	2,922452E+09	2,922519E+09	3,516848E+09	3,516856E+09	5,844971E+09	7,033704E+09	1,287867E+10
832	2,922561E+09	2,922591E+09	3,516828E+09	3,516840E+09	5,845152E+09	7,033668E+09	1,287882E+10
833	2,922468E+09	2,922464E+09	3,516836E+09	3,516828E+09	5,844932E+09	7,033664E+09	1,287860E+10
834	2,922466E+09	2,922534E+09	3,516894E+09	3,516856E+09	5,845000E+09	7,033750E+09	1,287875E+10
835	2,922581E+09	2,922528E+09	3,516885E+09	3,516813E+09	5,845109E+09	7,033699E+09	1,287881E+10
836	2,922470E+09	2,922479E+09	3,516852E+09	3,516857E+09	5,844950E+09	7,033709E+09	1,287866E+10
837	2,922569E+09	2,922610E+09	3,516842E+09	3,516904E+09	5,845179E+09	7,033746E+09	1,287892E+10
838	2,922613E+09	2,922571E+09	3,516842E+09	3,516848E+09	5,845185E+09	7,033690E+09	1,287887E+10
839	2,922532E+09	2,922588E+09	3,516862E+09	3,516859E+09	5,845120E+09	7,033722E+09	1,287884E+10
840	2,922700E+09	2,922699E+09	3,516857E+09	3,516845E+09	5,845399E+09	7,033702E+09	1,287910E+10
841	2,922666E+09	2,922610E+09	3,516859E+09	3,516827E+09	5,845276E+09	7,033685E+09	1,287896E+10
842	2,922614E+09	2,922679E+09	3,516893E+09	3,516878E+09	5,845293E+09	7,033772E+09	1,287907E+10
843	2,922730E+09	2,922733E+09	3,516881E+09	3,516850E+09	5,845463E+09	7,033731E+09	1,287919E+10
844	2,922597E+09	2,922631E+09	3,516867E+09	3,516867E+09	5,845228E+09	7,033734E+09	1,287896E+10
845	2,922633E+09	2,922686E+09	3,516884E+09	3,516896E+09	5,845319E+09	7,033780E+09	1,287910E+10
846	2,922700E+09	2,922623E+09	3,516879E+09	3,516836E+09	5,845323E+09	7,033715E+09	1,287904E+10
847	2,922554E+09	2,922551E+09	3,516864E+09	3,516857E+09	5,845105E+09	7,033721E+09	1,287883E+10
848	2,922648E+09	2,922652E+09	3,516827E+09	3,516864E+09	5,845300E+09	7,033691E+09	1,287899E+10
849	2,922604E+09	2,922566E+09	3,516813E+09	3,516829E+09	5,845171E+09	7,033642E+09	1,287881E+10
850	2,922487E+09	2,922570E+09	3,516850E+09	3,516856E+09	5,845056E+09	7,033707E+09	1,287876E+10
851	2,922625E+09	2,922629E+09	3,516859E+09	3,516811E+09	5,845255E+09	7,033670E+09	1,287892E+10
852	2,922525E+09	2,922509E+09	3,516859E+09	3,516809E+09	5,845034E+09	7,033668E+09	1,287870E+10
853	2,922528E+09	2,922566E+09	3,516873E+09	3,516863E+09	5,845093E+09	7,033737E+09	1,287883E+10
854	2,922644E+09	2,922597E+09	3,516858E+09	3,516838E+09	5,845241E+09	7,033696E+09	1,287894E+10
855	2,922509E+09	2,922552E+09	3,516841E+09	3,516872E+09	5,845061E+09	7,033713E+09	1,287877E+10
856	2,922627E+09	2,922680E+09	3,516829E+09	3,516880E+09	5,845307E+09	7,033710E+09	1,287902E+10
857	2,922693E+09	2,922646E+09	3,516843E+09	3,516829E+09	5,845339E+09	7,033672E+09	1,287901E+10
858	2,922604E+09	2,922636E+09	3,516879E+09	3,516853E+09	5,845239E+09	7,033733E+09	1,287897E+10
859	2,922774E+09	2,922754E+09	3,516877E+09	3,516833E+09	5,845528E+09	7,033711E+09	1,287924E+10
860	2,922704E+09	2,922691E+09	3,516866E+09	3,516835E+09	5,845395E+09	7,033701E+09	1,287910E+10
861	2,922654E+09	2,922734E+09	3,516870E+09	3,516897E+09	5,845387E+09	7,033767E+09	1,287915E+10
862	2,922785E+09	2,922779E+09	3,516875E+09	3,516859E+09	5,845564E+09	7,033734E+09	1,287930E+10
863	2,922645E+09	2,922660E+09	3,516878E+09	3,516863E+09	5,845305E+09	7,033741E+09	1,287905E+10
864	2,922700E+09	2,922715E+09	3,516864E+09	3,516870E+09	5,845414E+09	7,033734E+09	1,287915E+10
865	2,922763E+09	2,922684E+09	3,516850E+09	3,516836E+09	5,845448E+09	7,033685E+09	1,287913E+10
866	2,922594E+09	2,922617E+09	3,516844E+09	3,516868E+09	5,845211E+09	7,033712E+09	1,287892E+10
867	2,922693E+09	2,922718E+09	3,516830E+09	3,516844E+09	5,845411E+09	7,033674E+09	1,287908E+10
868	2,922635E+09	2,922637E+09	3,516842E+09	3,516806E+09	5,845271E+09	7,033648E+09	1,287892E+10
869	2,922538E+09	2,922599E+09	3,516860E+09	3,516845E+09	5,845136E+09	7,033704E+09	1,287884E+10
870	2,922685E+09	2,922659E+09	3,516873E+09	3,516818E+09	5,845344E+09	7,033691E+09	1,287904E+10
871	2,922566E+09	2,922549E+09	3,516866E+09	3,516836E+09	5,845115E+09	7,033702E+09	1,287882E+10

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	2,922575E+09	2,922622E+09	3,516835E+09	3,516874E+09	5,845198E+09	7,033710E+09	1,287891E+10
873	2,922705E+09	2,922679E+09	3,516822E+09	3,516852E+09	5,845384E+09	7,033673E+09	1,287906E+10
874	2,922577E+09	2,922609E+09	3,516834E+09	3,516862E+09	5,845186E+09	7,033697E+09	1,287888E+10
875	2,922719E+09	2,922732E+09	3,516846E+09	3,516834E+09	5,845451E+09	7,033679E+09	1,287913E+10
876	2,922765E+09	2,922720E+09	3,516864E+09	3,516795E+09	5,845486E+09	7,033659E+09	1,287914E+10
877	2,922667E+09	2,922694E+09	3,516869E+09	3,516856E+09	5,845362E+09	7,033725E+09	1,287909E+10
878	2,922820E+09	2,922832E+09	3,516876E+09	3,516856E+09	5,845652E+09	7,033732E+09	1,287938E+10
879	2,922728E+09	2,922758E+09	3,516881E+09	3,516862E+09	5,845486E+09	7,033743E+09	1,287923E+10
880	2,922695E+09	2,922777E+09	3,516868E+09	3,516894E+09	5,845472E+09	7,033762E+09	1,287923E+10
881	2,922853E+09	2,922825E+09	3,516868E+09	3,516865E+09	5,845678E+09	7,033733E+09	1,287941E+10
882	2,922713E+09	2,922682E+09	3,516874E+09	3,516867E+09	5,845395E+09	7,033741E+09	1,287914E+10
883	2,922771E+09	2,922760E+09	3,516852E+09	3,516854E+09	5,845530E+09	7,033707E+09	1,287924E+10
884	2,922803E+09	2,922767E+09	3,516832E+09	3,516820E+09	5,845569E+09	7,033651E+09	1,287922E+10
885	2,922631E+09	2,922669E+09	3,516821E+09	3,516859E+09	5,845300E+09	7,033680E+09	1,287898E+10
886	2,922736E+09	2,922765E+09	3,516846E+09	3,516826E+09	5,845501E+09	7,033672E+09	1,287917E+10
887	2,922671E+09	2,922665E+09	3,516875E+09	3,516796E+09	5,845337E+09	7,033671E+09	1,287901E+10
888	2,922588E+09	2,922623E+09	3,516855E+09	3,516835E+09	5,845212E+09	7,033690E+09	1,287890E+10
889	2,922742E+09	2,922718E+09	3,516844E+09	3,516843E+09	5,845460E+09	7,033686E+09	1,287915E+10
890	2,922613E+09	2,922609E+09	3,516844E+09	3,516861E+09	5,845223E+09	7,033705E+09	1,287893E+10
891	2,922644E+09	2,922691E+09	3,516825E+09	3,516860E+09	5,845335E+09	7,033685E+09	1,287902E+10
892	2,922769E+09	2,922760E+09	3,516836E+09	3,516820E+09	5,845529E+09	7,033656E+09	1,287918E+10
893	2,922658E+09	2,922660E+09	3,516840E+09	3,516843E+09	5,845317E+09	7,033683E+09	1,287900E+10
894	2,922795E+09	2,922790E+09	3,516866E+09	3,516826E+09	5,845585E+09	7,033693E+09	1,287928E+10
895	2,922806E+09	2,922791E+09	3,516884E+09	3,516818E+09	5,845597E+09	7,033701E+09	1,287930E+10
896	2,922704E+09	2,922766E+09	3,516847E+09	3,516875E+09	5,845470E+09	7,033722E+09	1,287919E+10
897	2,922865E+09	2,922907E+09	3,516855E+09	3,516884E+09	5,845771E+09	7,033739E+09	1,287951E+10
898	2,922788E+09	2,922793E+09	3,516886E+09	3,516869E+09	5,845582E+09	7,033756E+09	1,287934E+10
899	2,922785E+09	2,922801E+09	3,516867E+09	3,516860E+09	5,845586E+09	7,033727E+09	1,287931E+10
900	2,922923E+09	2,922878E+09	3,516864E+09	3,516832E+09	5,845801E+09	7,033696E+09	1,287950E+10
901	2,922776E+09	2,922734E+09	3,516838E+09	3,516856E+09	5,845510E+09	7,033694E+09	1,287920E+10
902	2,922811E+09	2,922830E+09	3,516841E+09	3,516844E+09	5,845641E+09	7,033685E+09	1,287933E+10
903	2,922818E+09	2,922834E+09	3,516854E+09	3,516816E+09	5,845651E+09	7,033670E+09	1,287932E+10
904	2,922661E+09	2,922709E+09	3,516832E+09	3,516842E+09	5,845369E+09	7,033674E+09	1,287904E+10
905	2,922781E+09	2,922805E+09	3,516855E+09	3,516836E+09	5,845586E+09	7,033690E+09	1,287928E+10
906	2,922722E+09	2,922684E+09	3,516886E+09	3,516820E+09	5,845406E+09	7,033707E+09	1,287911E+10
907	2,922651E+09	2,922664E+09	3,516838E+09	3,516844E+09	5,845314E+09	7,033682E+09	1,287900E+10
908	2,922791E+09	2,922798E+09	3,516821E+09	3,516844E+09	5,845588E+09	7,033665E+09	1,287925E+10
909	2,922681E+09	2,922668E+09	3,516810E+09	3,516855E+09	5,845348E+09	7,033665E+09	1,287901E+10
910	2,922722E+09	2,922751E+09	3,516833E+09	3,516828E+09	5,845473E+09	7,033661E+09	1,287913E+10
911	2,922834E+09	2,922820E+09	3,516862E+09	3,516797E+09	5,845654E+09	7,033659E+09	1,287931E+10
912	2,922720E+09	2,922718E+09	3,516838E+09	3,516829E+09	5,845438E+09	7,033668E+09	1,287911E+10
913	2,922845E+09	2,922879E+09	3,516853E+09	3,516853E+09	5,845724E+09	7,033706E+09	1,287943E+10
914	2,922846E+09	2,922856E+09	3,516886E+09	3,516850E+09	5,845702E+09	7,033736E+09	1,287944E+10
915	2,922764E+09	2,922823E+09	3,516852E+09	3,516873E+09	5,845587E+09	7,033725E+09	1,287931E+10
916	2,922929E+09	2,922964E+09	3,516867E+09	3,516862E+09	5,845893E+09	7,033728E+09	1,287962E+10
917	2,922871E+09	2,922817E+09	3,516873E+09	3,516857E+09	5,845688E+09	7,033730E+09	1,287942E+10
918	2,922863E+09	2,922842E+09	3,516863E+09	3,516847E+09	5,845705E+09	7,033710E+09	1,287941E+10
919	2,922962E+09	2,922941E+09	3,516857E+09	3,516836E+09	5,845902E+09	7,033693E+09	1,287960E+10
920	2,922804E+09	2,922802E+09	3,516808E+09	3,516850E+09	5,845606E+09	7,033658E+09	1,287926E+10

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							
921	2,922842E+09	2,922901E+09	3,516826E+09	3,516845E+09	5,845743E+09	7,033672E+09	1,287941E+10
922	2,922857E+09	2,922862E+09	3,516877E+09	3,516812E+09	5,845719E+09	7,033689E+09	1,287941E+10
923	2,922725E+09	2,922732E+09	3,516845E+09	3,516821E+09	5,845458E+09	7,033665E+09	1,287912E+10
924	2,922833E+09	2,922852E+09	3,516856E+09	3,516828E+09	5,845685E+09	7,033684E+09	1,287937E+10
925	2,922779E+09	2,922730E+09	3,516852E+09	3,516839E+09	5,845509E+09	7,033691E+09	1,287920E+10
926	2,922706E+09	2,922731E+09	3,516820E+09	3,516847E+09	5,845437E+09	7,033667E+09	1,287910E+10
927	2,922833E+09	2,922868E+09	3,516832E+09	3,516840E+09	5,845701E+09	7,033672E+09	1,287937E+10
928	2,922743E+09	2,922727E+09	3,516810E+09	3,516827E+09	5,845470E+09	7,033638E+09	1,287911E+10
929	2,922792E+09	2,922817E+09	3,516837E+09	3,516823E+09	5,845610E+09	7,033660E+09	1,287927E+10
930	2,922896E+09	2,922872E+09	3,516884E+09	3,516813E+09	5,845768E+09	7,033697E+09	1,287946E+10
931	2,922783E+09	2,922784E+09	3,516831E+09	3,516837E+09	5,845567E+09	7,033668E+09	1,287924E+10
932	2,922885E+09	2,922962E+09	3,516848E+09	3,516859E+09	5,845847E+09	7,033707E+09	1,287955E+10
933	2,922910E+09	2,922903E+09	3,516869E+09	3,516857E+09	5,845813E+09	7,033725E+09	1,287954E+10
934	2,922847E+09	2,922858E+09	3,516858E+09	3,516850E+09	5,845705E+09	7,033708E+09	1,287941E+10
935	2,922998E+09	2,923005E+09	3,516876E+09	3,516845E+09	5,846003E+09	7,033722E+09	1,287972E+10
936	2,922936E+09	2,922870E+09	3,516840E+09	3,516839E+09	5,845806E+09	7,033679E+09	1,287949E+10
937	2,922909E+09	2,922929E+09	3,516826E+09	3,516855E+09	5,845839E+09	7,033681E+09	1,287952E+10
938	2,922990E+09	2,923009E+09	3,516859E+09	3,516847E+09	5,845998E+09	7,033706E+09	1,287970E+10
939	2,922844E+09	2,922859E+09	3,516822E+09	3,516833E+09	5,845702E+09	7,033655E+09	1,287936E+10
940	2,922877E+09	2,922952E+09	3,516859E+09	3,516825E+09	5,845829E+09	7,033684E+09	1,287951E+10
941	2,922915E+09	2,922875E+09	3,516882E+09	3,516820E+09	5,845790E+09	7,033702E+09	1,287949E+10
942	2,922787E+09	2,922758E+09	3,516848E+09	3,516830E+09	5,845545E+09	7,033678E+09	1,287922E+10
943	2,922870E+09	2,922905E+09	3,516843E+09	3,516851E+09	5,845775E+09	7,033694E+09	1,287947E+10
944	2,922821E+09	2,922791E+09	3,516807E+09	3,516841E+09	5,845612E+09	7,033649E+09	1,287926E+10
945	2,922767E+09	2,922806E+09	3,516794E+09	3,516840E+09	5,845573E+09	7,033634E+09	1,287921E+10
946	2,922902E+09	2,922908E+09	3,516847E+09	3,516818E+09	5,845811E+09	7,033665E+09	1,287948E+10
947	2,922824E+09	2,922780E+09	3,516820E+09	3,516792E+09	5,845604E+09	7,033612E+09	1,287922E+10
948	2,922850E+09	2,922897E+09	3,516845E+09	3,516805E+09	5,845747E+09	7,033650E+09	1,287940E+10
949	2,922946E+09	2,922936E+09	3,516866E+09	3,516834E+09	5,845883E+09	7,033700E+09	1,287958E+10
950	2,922836E+09	2,922853E+09	3,516838E+09	3,516847E+09	5,845689E+09	7,033685E+09	1,287937E+10
951	2,922931E+09	2,923020E+09	3,516867E+09	3,516867E+09	5,845951E+09	7,033734E+09	1,287969E+10
952	2,922978E+09	2,922946E+09	3,516858E+09	3,516847E+09	5,845924E+09	7,033705E+09	1,287963E+10
953	2,922928E+09	2,922916E+09	3,516836E+09	3,516854E+09	5,845844E+09	7,033690E+09	1,287953E+10
954	2,923061E+09	2,923052E+09	3,516872E+09	3,516856E+09	5,846113E+09	7,033729E+09	1,287984E+10
955	2,922991E+09	2,922948E+09	3,516816E+09	3,516831E+09	5,845939E+09	7,033647E+09	1,287959E+10
956	2,922941E+09	2,923017E+09	3,516825E+09	3,516837E+09	5,845958E+09	7,033662E+09	1,287962E+10
957	2,923034E+09	2,923049E+09	3,516863E+09	3,516840E+09	5,846083E+09	7,033702E+09	1,287979E+10
958	2,922905E+09	2,922882E+09	3,516852E+09	3,516811E+09	5,845787E+09	7,033663E+09	1,287945E+10
959	2,922919E+09	2,922976E+09	3,516883E+09	3,516827E+09	5,845895E+09	7,033710E+09	1,287960E+10
960	2,922960E+09	2,922911E+09	3,516852E+09	3,516829E+09	5,845870E+09	7,033681E+09	1,287955E+10
961	2,922832E+09	2,922827E+09	3,516800E+09	3,516853E+09	5,845659E+09	7,033653E+09	1,287931E+10
962	2,922913E+09	2,922959E+09	3,516835E+09	3,516863E+09	5,845872E+09	7,033698E+09	1,287957E+10
963	2,922886E+09	2,922854E+09	3,516800E+09	3,516808E+09	5,845740E+09	7,033608E+09	1,287935E+10
964	2,922827E+09	2,922872E+09	3,516815E+09	3,516799E+09	5,845699E+09	7,033615E+09	1,287931E+10
965	2,922972E+09	2,922950E+09	3,516856E+09	3,516813E+09	5,845922E+09	7,033669E+09	1,287959E+10
966	2,922888E+09	2,922833E+09	3,516835E+09	3,516796E+09	5,845721E+09	7,033631E+09	1,287935E+10
967	2,922879E+09	2,922970E+09	3,516852E+09	3,516835E+09	5,845849E+09	7,033686E+09	1,287954E+10
968	2,922986E+09	2,923001E+09	3,516837E+09	3,516849E+09	5,845987E+09	7,033687E+09	1,287967E+10
969	2,922904E+09	2,922918E+09	3,516817E+09	3,516854E+09	5,845822E+09	7,033671E+09	1,287949E+10

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							
970	2,923011E+09	2,923051E+09	3,516877E+09	3,516862E+09	5,846063E+09	7,033739E+09	1,287980E+10
971	2,923067E+09	2,923001E+09	3,516842E+09	3,516819E+09	5,846069E+09	7,033662E+09	1,287973E+10
972	2,922992E+09	2,923003E+09	3,516826E+09	3,516831E+09	5,845995E+09	7,033657E+09	1,287965E+10
973	2,923112E+09	2,923122E+09	3,516853E+09	3,516861E+09	5,846234E+09	7,033714E+09	1,287995E+10
974	2,923035E+09	2,923016E+09	3,516838E+09	3,516818E+09	5,846051E+09	7,033656E+09	1,287971E+10
975	2,922968E+09	2,923068E+09	3,516866E+09	3,516833E+09	5,846036E+09	7,033698E+09	1,287973E+10
976	2,923074E+09	2,923073E+09	3,516869E+09	3,516837E+09	5,846147E+09	7,033705E+09	1,287985E+10
977	2,922963E+09	2,922916E+09	3,516841E+09	3,516834E+09	5,845879E+09	7,033675E+09	1,287955E+10
978	2,922968E+09	2,922995E+09	3,516871E+09	3,516858E+09	5,845963E+09	7,033729E+09	1,287969E+10
979	2,923007E+09	2,922970E+09	3,516808E+09	3,516832E+09	5,845976E+09	7,033640E+09	1,287962E+10
980	2,922879E+09	2,922906E+09	3,516777E+09	3,516828E+09	5,845786E+09	7,033604E+09	1,287939E+10
981	2,922977E+09	2,922999E+09	3,516824E+09	3,516837E+09	5,845976E+09	7,033661E+09	1,287964E+10
982	2,922963E+09	2,922899E+09	3,516825E+09	3,516765E+09	5,845863E+09	7,033591E+09	1,287945E+10
983	2,922878E+09	2,922929E+09	3,516842E+09	3,516788E+09	5,845807E+09	7,033630E+09	1,287944E+10
984	2,923008E+09	2,923014E+09	3,516839E+09	3,516823E+09	5,846022E+09	7,033662E+09	1,287968E+10
985	2,922930E+09	2,922921E+09	3,516812E+09	3,516831E+09	5,845851E+09	7,033643E+09	1,287949E+10
986	2,922923E+09	2,923021E+09	3,516864E+09	3,516864E+09	5,845943E+09	7,033728E+09	1,287967E+10
987	2,923056E+09	2,923059E+09	3,516837E+09	3,516838E+09	5,846115E+09	7,033675E+09	1,287979E+10
988	2,922987E+09	2,922981E+09	3,516825E+09	3,516828E+09	5,845968E+09	7,033653E+09	1,287962E+10
989	2,923100E+09	2,923091E+09	3,516867E+09	3,516861E+09	5,846191E+09	7,033729E+09	1,287992E+10
990	2,923145E+09	2,923067E+09	3,516842E+09	3,516809E+09	5,846212E+09	7,033651E+09	1,287986E+10
991	2,923026E+09	2,923087E+09	3,516830E+09	3,516838E+09	5,846113E+09	7,033669E+09	1,287978E+10
992	2,923142E+09	2,923185E+09	3,516840E+09	3,516857E+09	5,846328E+09	7,033697E+09	1,288002E+10
993	2,923087E+09	2,923065E+09	3,516838E+09	3,516817E+09	5,846152E+09	7,033655E+09	1,287981E+10
994	2,923020E+09	2,923078E+09	3,516891E+09	3,516839E+09	5,846098E+09	7,033729E+09	1,287983E+10
995	2,923132E+09	2,923107E+09	3,516848E+09	3,516828E+09	5,846239E+09	7,033676E+09	1,287991E+10
996	2,923009E+09	2,922979E+09	3,516814E+09	3,516828E+09	5,845987E+09	7,033643E+09	1,287963E+10
997	2,923014E+09	2,923045E+09	3,516835E+09	3,516869E+09	5,846059E+09	7,033705E+09	1,287976E+10
998	2,923063E+09	2,923026E+09	3,516811E+09	3,516806E+09	5,846088E+09	7,033617E+09	1,287971E+10
999	2,922922E+09	2,922966E+09	3,516806E+09	3,516803E+09	5,845888E+09	7,033609E+09	1,287950E+10
1000	2,923026E+09	2,923041E+09	3,516827E+09	3,516815E+09	5,846068E+09	7,033642E+09	1,287971E+10
1001	2,923021E+09	2,922958E+09	3,516825E+09	3,516777E+09	5,845979E+09	7,033603E+09	1,287958E+10
1002	2,922917E+09	2,922974E+09	3,516853E+09	3,516825E+09	5,845892E+09	7,033679E+09	1,287957E+10
1003	2,923047E+09	2,923087E+09	3,516815E+09	3,516839E+09	5,846133E+09	7,033654E+09	1,287979E+10
1004	2,922986E+09	2,922995E+09	3,516808E+09	3,516826E+09	5,845981E+09	7,033633E+09	1,287961E+10
1005	2,923008E+09	2,923050E+09	3,516858E+09	3,516859E+09	5,846058E+09	7,033717E+09	1,287978E+10
1006	2,923157E+09	2,923100E+09	3,516850E+09	3,516806E+09	5,846257E+09	7,033655E+09	1,287991E+10
1007	2,923062E+09	2,923051E+09	3,516832E+09	3,516813E+09	5,846113E+09	7,033645E+09	1,287976E+10
1008	2,923152E+09	2,923167E+09	3,516835E+09	3,516857E+09	5,846319E+09	7,033692E+09	1,288001E+10
1009	2,923192E+09	2,923166E+09	3,516824E+09	3,516822E+09	5,846358E+09	7,033646E+09	1,288000E+10
1010	2,923062E+09	2,923140E+09	3,516856E+09	3,516850E+09	5,846202E+09	7,033706E+09	1,287991E+10
1011	2,923182E+09	2,923234E+09	3,516850E+09	3,516844E+09	5,846416E+09	7,033693E+09	1,288011E+10
1012	2,923144E+09	2,923111E+09	3,516853E+09	3,516807E+09	5,846254E+09	7,033660E+09	1,287991E+10
1013	2,923082E+09	2,923089E+09	3,516877E+09	3,516858E+09	5,846170E+09	7,033735E+09	1,287991E+10
1014	2,923190E+09	2,923148E+09	3,516833E+09	3,516830E+09	5,846339E+09	7,033663E+09	1,288000E+10
1015	2,923043E+09	2,923048E+09	3,516797E+09	3,516827E+09	5,846092E+09	7,033623E+09	1,287972E+10
1016	2,923055E+09	2,923096E+09	3,516805E+09	3,516846E+09	5,846151E+09	7,033651E+09	1,287980E+10
1017	2,923126E+09	2,923083E+09	3,516807E+09	3,516781E+09	5,846209E+09	7,033589E+09	1,287980E+10
1018	2,922978E+09	2,922994E+09	3,516837E+09	3,516795E+09	5,845972E+09	7,033632E+09	1,287960E+10

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	2,923070E+09	2,923100E+09	3,516824E+09	3,516805E+09	5,846170E+09	7,033630E+09	1,287980E+10
1020	2,923063E+09	2,923039E+09	3,516823E+09	3,516785E+09	5,846102E+09	7,033608E+09	1,287971E+10
1021	2,922964E+09	2,923024E+09	3,516844E+09	3,516855E+09	5,845988E+09	7,033700E+09	1,287969E+10
1022	2,923115E+09	2,923137E+09	3,516831E+09	3,516833E+09	5,846253E+09	7,033663E+09	1,287992E+10
1023	2,923053E+09	2,923053E+09	3,516830E+09	3,516816E+09	5,846107E+09	7,033646E+09	1,287975E+10
1024	2,923089E+09	2,923097E+09	3,516842E+09	3,516849E+09	5,846186E+09	7,033690E+09	1,287988E+10
1025	2,923241E+09	2,923170E+09	3,516827E+09	3,516811E+09	5,846412E+09	7,033638E+09	1,288005E+10
1026	2,923114E+09	2,923120E+09	3,516830E+09	3,516835E+09	5,846233E+09	7,033665E+09	1,287990E+10
1027	2,923187E+09	2,923259E+09	3,516811E+09	3,516848E+09	5,846446E+09	7,033659E+09	1,288010E+10
1028	2,923238E+09	2,923241E+09	3,516833E+09	3,516802E+09	5,846479E+09	7,033635E+09	1,288011E+10
1029	2,923125E+09	2,923160E+09	3,516869E+09	3,516848E+09	5,846285E+09	7,033717E+09	1,288000E+10
1030	2,923256E+09	2,923256E+09	3,516866E+09	3,516824E+09	5,846511E+09	7,033690E+09	1,288020E+10
1031	2,923193E+09	2,923158E+09	3,516853E+09	3,516809E+09	5,846352E+09	7,033662E+09	1,288001E+10
1032	2,923123E+09	2,923140E+09	3,516828E+09	3,516864E+09	5,846262E+09	7,033692E+09	1,287995E+10
1033	2,923236E+09	2,923219E+09	3,516802E+09	3,516834E+09	5,846455E+09	7,033635E+09	1,288009E+10
1034	2,923085E+09	2,923093E+09	3,516815E+09	3,516821E+09	5,846178E+09	7,033636E+09	1,287981E+10
1035	2,923099E+09	2,923151E+09	3,516810E+09	3,516810E+09	5,846250E+09	7,033620E+09	1,287987E+10
1036	2,923183E+09	2,923140E+09	3,516829E+09	3,516761E+09	5,846323E+09	7,033590E+09	1,287991E+10
1037	2,923033E+09	2,923022E+09	3,516841E+09	3,516820E+09	5,846055E+09	7,033661E+09	1,287972E+10
1038	2,923116E+09	2,923154E+09	3,516826E+09	3,516821E+09	5,846270E+09	7,033646E+09	1,287992E+10
1039	2,923099E+09	2,923112E+09	3,516823E+09	3,516802E+09	5,846211E+09	7,033625E+09	1,287984E+10
1040	2,923023E+09	2,923065E+09	3,516817E+09	3,516850E+09	5,846089E+09	7,033667E+09	1,287976E+10
1041	2,923206E+09	2,923190E+09	3,516819E+09	3,516819E+09	5,846396E+09	7,033639E+09	1,288003E+10
1042	2,923139E+09	2,923098E+09	3,516833E+09	3,516807E+09	5,846237E+09	7,033640E+09	1,287988E+10
1043	2,923151E+09	2,923180E+09	3,516811E+09	3,516827E+09	5,846331E+09	7,033637E+09	1,287997E+10
1044	2,923295E+09	2,923279E+09	3,516815E+09	3,516802E+09	5,846574E+09	7,033617E+09	1,288019E+10
1045	2,923161E+09	2,923185E+09	3,516834E+09	3,516847E+09	5,846346E+09	7,033681E+09	1,288003E+10
1046	2,923240E+09	2,923314E+09	3,516848E+09	3,516830E+09	5,846554E+09	7,033678E+09	1,288023E+10
1047	2,923289E+09	2,923291E+09	3,516871E+09	3,516795E+09	5,846580E+09	7,033666E+09	1,288025E+10
1048	2,923186E+09	2,923180E+09	3,516858E+09	3,516852E+09	5,846366E+09	7,033711E+09	1,288008E+10
1049	2,923321E+09	2,923300E+09	3,516842E+09	3,516843E+09	5,846621E+09	7,033686E+09	1,288031E+10
1050	2,923236E+09	2,923206E+09	3,516833E+09	3,516835E+09	5,846442E+09	7,033668E+09	1,288011E+10
1051	2,923157E+09	2,923212E+09	3,516786E+09	3,516848E+09	5,846369E+09	7,033634E+09	1,288000E+10
1052	2,923291E+09	2,923284E+09	3,516800E+09	3,516798E+09	5,846575E+09	7,033598E+09	1,288017E+10
1053	2,923148E+09	2,923118E+09	3,516829E+09	3,516803E+09	5,846266E+09	7,033633E+09	1,287990E+10
1054	2,923162E+09	2,923188E+09	3,516834E+09	3,516781E+09	5,846350E+09	7,033616E+09	1,287997E+10
1055	2,923218E+09	2,923204E+09	3,516842E+09	3,516768E+09	5,846422E+09	7,033610E+09	1,288003E+10
1056	2,923066E+09	2,923079E+09	3,516812E+09	3,516844E+09	5,846146E+09	7,033656E+09	1,287980E+10
1057	2,923166E+09	2,923215E+09	3,516809E+09	3,516838E+09	5,846381E+09	7,033647E+09	1,288003E+10
1058	2,923153E+09	2,923152E+09	3,516837E+09	3,516814E+09	5,846305E+09	7,033651E+09	1,287996E+10
1059	2,923092E+09	2,923125E+09	3,516798E+09	3,516825E+09	5,846217E+09	7,033623E+09	1,287984E+10
1060	2,923290E+09	2,923256E+09	3,516814E+09	3,516800E+09	5,846546E+09	7,033614E+09	1,288016E+10
1061	2,923212E+09	2,923155E+09	3,516825E+09	3,516817E+09	5,846367E+09	7,033642E+09	1,288001E+10
1062	2,923210E+09	2,923263E+09	3,516809E+09	3,516815E+09	5,846473E+09	7,033624E+09	1,288010E+10
1063	2,923334E+09	2,923367E+09	3,516832E+09	3,516796E+09	5,846701E+09	7,033628E+09	1,288033E+10
1064	2,923216E+09	2,923228E+09	3,516833E+09	3,516839E+09	5,846445E+09	7,033672E+09	1,288012E+10
1065	2,923313E+09	2,923350E+09	3,516857E+09	3,516826E+09	5,846663E+09	7,033683E+09	1,288035E+10
1066	2,923351E+09	2,923319E+09	3,516881E+09	3,516813E+09	5,846670E+09	7,033694E+09	1,288036E+10
1067	2,923234E+09	2,923243E+09	3,516814E+09	3,516852E+09	5,846477E+09	7,033665E+09	1,288014E+10

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							
1068	2,923372E+09	2,923380E+09	3,516812E+09	3,516844E+09	5,846751E+09	7,033656E+09	1,288041E+10
1069	2,923285E+09	2,923257E+09	3,516822E+09	3,516837E+09	5,846542E+09	7,033659E+09	1,288020E+10
1070	2,923212E+09	2,923263E+09	3,516808E+09	3,516811E+09	5,846476E+09	7,033619E+09	1,288009E+10
1071	2,923338E+09	2,923341E+09	3,516835E+09	3,516776E+09	5,846679E+09	7,033611E+09	1,288029E+10
1072	2,923199E+09	2,923145E+09	3,516825E+09	3,516805E+09	5,846343E+09	7,033630E+09	1,287997E+10
1073	2,923205E+09	2,923238E+09	3,516827E+09	3,516806E+09	5,846443E+09	7,033633E+09	1,288008E+10
1074	2,923244E+09	2,923256E+09	3,516834E+09	3,516806E+09	5,846499E+09	7,033639E+09	1,288014E+10
1075	2,923099E+09	2,923140E+09	3,516775E+09	3,516838E+09	5,846239E+09	7,033612E+09	1,287985E+10
1076	2,923239E+09	2,923268E+09	3,516803E+09	3,516816E+09	5,846506E+09	7,033619E+09	1,288013E+10
1077	2,923242E+09	2,923180E+09	3,516833E+09	3,516800E+09	5,846422E+09	7,033633E+09	1,288006E+10
1078	2,923180E+09	2,923184E+09	3,516800E+09	3,516790E+09	5,846364E+09	7,033590E+09	1,287995E+10
1079	2,923347E+09	2,923350E+09	3,516817E+09	3,516788E+09	5,846697E+09	7,033605E+09	1,288030E+10
1080	2,923258E+09	2,923236E+09	3,516807E+09	3,516821E+09	5,846494E+09	7,033628E+09	1,288012E+10
1081	2,923260E+09	2,923340E+09	3,516824E+09	3,516820E+09	5,846599E+09	7,033644E+09	1,288024E+10
1082	2,923378E+09	2,923414E+09	3,516870E+09	3,516813E+09	5,846792E+09	7,033683E+09	1,288047E+10
1083	2,923272E+09	2,923276E+09	3,516830E+09	3,516836E+09	5,846548E+09	7,033666E+09	1,288021E+10
1084	2,923388E+09	2,923395E+09	3,516851E+09	3,516836E+09	5,846783E+09	7,033687E+09	1,288047E+10
1085	2,923414E+09	2,923358E+09	3,516856E+09	3,516845E+09	5,846772E+09	7,033701E+09	1,288047E+10
1086	2,923293E+09	2,923313E+09	3,516787E+09	3,516842E+09	5,846606E+09	7,033629E+09	1,288023E+10
1087	2,923415E+09	2,923452E+09	3,516810E+09	3,516820E+09	5,846867E+09	7,033630E+09	1,288050E+10
1088	2,923342E+09	2,923297E+09	3,516816E+09	3,516805E+09	5,846639E+09	7,033621E+09	1,288026E+10
1089	2,923277E+09	2,923301E+09	3,516821E+09	3,516783E+09	5,846578E+09	7,033603E+09	1,288018E+10
1090	2,923371E+09	2,923375E+09	3,516853E+09	3,516786E+09	5,846746E+09	7,033639E+09	1,288038E+10
1091	2,923220E+09	2,923209E+09	3,516796E+09	3,516812E+09	5,846429E+09	7,033607E+09	1,288004E+10
1092	2,923240E+09	2,923300E+09	3,516810E+09	3,516822E+09	5,846540E+09	7,033633E+09	1,288017E+10
1093	2,923290E+09	2,923289E+09	3,516834E+09	3,516824E+09	5,846579E+09	7,033657E+09	1,288024E+10
1094	2,923173E+09	2,923185E+09	3,516782E+09	3,516807E+09	5,846358E+09	7,033589E+09	1,287995E+10
1095	2,923313E+09	2,923324E+09	3,516818E+09	3,516792E+09	5,846637E+09	7,033610E+09	1,288025E+10
1096	2,923319E+09	2,923231E+09	3,516814E+09	3,516793E+09	5,846550E+09	7,033608E+09	1,288016E+10
1097	2,923244E+09	2,923263E+09	3,516791E+09	3,516795E+09	5,846507E+09	7,033587E+09	1,288009E+10
1098	2,923378E+09	2,923432E+09	3,516823E+09	3,516813E+09	5,846810E+09	7,033636E+09	1,288045E+10
1099	2,923295E+09	2,923314E+09	3,516796E+09	3,516814E+09	5,846609E+09	7,033610E+09	1,288022E+10
1100	2,923329E+09	2,923393E+09	3,516839E+09	3,516815E+09	5,846722E+09	7,033654E+09	1,288038E+10
1101	2,923455E+09	2,923439E+09	3,516878E+09	3,516826E+09	5,846894E+09	7,033704E+09	1,288060E+10
1102	2,923352E+09	2,923328E+09	3,516820E+09	3,516827E+09	5,846680E+09	7,033647E+09	1,288033E+10
1103	2,923446E+09	2,923475E+09	3,516837E+09	3,516837E+09	5,846921E+09	7,033674E+09	1,288059E+10
1104	2,923467E+09	2,923422E+09	3,516817E+09	3,516841E+09	5,846889E+09	7,033658E+09	1,288055E+10
1105	2,923347E+09	2,923377E+09	3,516792E+09	3,516820E+09	5,846724E+09	7,033612E+09	1,288034E+10
1106	2,923453E+09	2,923497E+09	3,516841E+09	3,516807E+09	5,846951E+09	7,033648E+09	1,288060E+10
1107	2,923379E+09	2,923340E+09	3,516816E+09	3,516783E+09	5,846719E+09	7,033599E+09	1,288032E+10
1108	2,923324E+09	2,923342E+09	3,516827E+09	3,516794E+09	5,846666E+09	7,033621E+09	1,288029E+10
1109	2,923402E+09	2,923408E+09	3,516841E+09	3,516826E+09	5,846810E+09	7,033667E+09	1,288048E+10
1110	2,923262E+09	2,923264E+09	3,516777E+09	3,516815E+09	5,846525E+09	7,033592E+09	1,288012E+10
1111	2,923290E+09	2,923351E+09	3,516811E+09	3,516809E+09	5,846641E+09	7,033619E+09	1,288026E+10
1112	2,923366E+09	2,923315E+09	3,516816E+09	3,516801E+09	5,846681E+09	7,033617E+09	1,288030E+10
1113	2,923261E+09	2,923234E+09	3,516782E+09	3,516779E+09	5,846495E+09	7,033561E+09	1,288006E+10
1114	2,923368E+09	2,923389E+09	3,516821E+09	3,516795E+09	5,846756E+09	7,033616E+09	1,288037E+10
1115	2,923354E+09	2,923329E+09	3,516787E+09	3,516789E+09	5,846683E+09	7,033575E+09	1,288026E+10
1116	2,923291E+09	2,923352E+09	3,516793E+09	3,516807E+09	5,846643E+09	7,033600E+09	1,288024E+10

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	2,923421E+09	2,923484E+09	3,516848E+09	3,516835E+09	5,846904E+09	7,033683E+09	1,288059E+10
1118	2,923368E+09	2,923367E+09	3,516821E+09	3,516803E+09	5,846735E+09	7,033624E+09	1,288036E+10
1119	2,923404E+09	2,923437E+09	3,516859E+09	3,516813E+09	5,846841E+09	7,033672E+09	1,288051E+10
1120	2,923532E+09	2,923476E+09	3,516852E+09	3,516840E+09	5,847009E+09	7,033691E+09	1,288070E+10
1121	2,923425E+09	2,923396E+09	3,516790E+09	3,516828E+09	5,846821E+09	7,033618E+09	1,288044E+10
1122	2,923483E+09	2,923542E+09	3,516821E+09	3,516842E+09	5,847025E+09	7,033663E+09	1,288069E+10
1123	2,923507E+09	2,923491E+09	3,516796E+09	3,516804E+09	5,846998E+09	7,033600E+09	1,288060E+10
1124	2,923412E+09	2,923422E+09	3,516803E+09	3,516791E+09	5,846833E+09	7,033595E+09	1,288043E+10
1125	2,923501E+09	2,923520E+09	3,516859E+09	3,516807E+09	5,847021E+09	7,033667E+09	1,288069E+10
1126	2,923428E+09	2,923391E+09	3,516816E+09	3,516775E+09	5,846819E+09	7,033591E+09	1,288041E+10
1127	2,923353E+09	2,923404E+09	3,516825E+09	3,516805E+09	5,846757E+09	7,033630E+09	1,288039E+10
1128	2,923439E+09	2,923450E+09	3,516816E+09	3,516840E+09	5,846889E+09	7,033656E+09	1,288055E+10
1129	2,923321E+09	2,923309E+09	3,516781E+09	3,516804E+09	5,846630E+09	7,033585E+09	1,288021E+10
1130	2,923344E+09	2,923392E+09	3,516824E+09	3,516807E+09	5,846736E+09	7,033631E+09	1,288037E+10
1131	2,923426E+09	2,923371E+09	3,516797E+09	3,516780E+09	5,846797E+09	7,033577E+09	1,288037E+10
1132	2,923330E+09	2,923303E+09	3,516775E+09	3,516785E+09	5,846633E+09	7,033560E+09	1,288019E+10
1133	2,923408E+09	2,923458E+09	3,516816E+09	3,516821E+09	5,846867E+09	7,033637E+09	1,288050E+10
1134	2,923405E+09	2,923411E+09	3,516787E+09	3,516781E+09	5,846816E+09	7,033569E+09	1,288038E+10
1135	2,923349E+09	2,923416E+09	3,516823E+09	3,516794E+09	5,846765E+09	7,033617E+09	1,288038E+10
1136	2,923499E+09	2,923510E+09	3,516846E+09	3,516826E+09	5,847010E+09	7,033672E+09	1,288068E+10
1137	2,923459E+09	2,923407E+09	3,516824E+09	3,516794E+09	5,846866E+09	7,033618E+09	1,288048E+10
1138	2,923463E+09	2,923497E+09	3,516845E+09	3,516831E+09	5,846961E+09	7,033676E+09	1,288064E+10
1139	2,923576E+09	2,923559E+09	3,516804E+09	3,516832E+09	5,847135E+09	7,033636E+09	1,288077E+10
1140	2,923483E+09	2,923477E+09	3,516777E+09	3,516822E+09	5,846960E+09	7,033600E+09	1,288056E+10
1141	2,923529E+09	2,923592E+09	3,516837E+09	3,516835E+09	5,847121E+09	7,033672E+09	1,288079E+10
1142	2,923568E+09	2,923545E+09	3,516818E+09	3,516772E+09	5,847113E+09	7,033590E+09	1,288070E+10
1143	2,923464E+09	2,923466E+09	3,516833E+09	3,516783E+09	5,846930E+09	7,033616E+09	1,288055E+10
1144	2,923541E+09	2,923549E+09	3,516844E+09	3,516830E+09	5,847091E+09	7,033674E+09	1,288076E+10
1145	2,923470E+09	2,923442E+09	3,516803E+09	3,516795E+09	5,846912E+09	7,033598E+09	1,288051E+10
1146	2,923379E+09	2,923450E+09	3,516814E+09	3,516827E+09	5,846829E+09	7,033641E+09	1,288047E+10
1147	2,923484E+09	2,923492E+09	3,516791E+09	3,516815E+09	5,846976E+09	7,033606E+09	1,288058E+10
1148	2,923404E+09	2,923350E+09	3,516774E+09	3,516780E+09	5,846755E+09	7,033554E+09	1,288031E+10
1149	2,923409E+09	2,923431E+09	3,516823E+09	3,516802E+09	5,846839E+09	7,033626E+09	1,288046E+10
1150	2,923490E+09	2,923453E+09	3,516787E+09	3,516761E+09	5,846944E+09	7,033547E+09	1,288049E+10
1151	2,923375E+09	2,923390E+09	3,516783E+09	3,516780E+09	5,846764E+09	7,033563E+09	1,288033E+10
1152	2,923449E+09	2,923517E+09	3,516817E+09	3,516826E+09	5,846966E+09	7,033643E+09	1,288061E+10
1153	2,923471E+09	2,923465E+09	3,516816E+09	3,516771E+09	5,846935E+09	7,033587E+09	1,288052E+10
1154	2,923405E+09	2,923453E+09	3,516846E+09	3,516807E+09	5,846859E+09	7,033653E+09	1,288051E+10
1155	2,923564E+09	2,923556E+09	3,516827E+09	3,516824E+09	5,847121E+09	7,033650E+09	1,288077E+10
1156	2,923539E+09	2,923473E+09	3,516793E+09	3,516812E+09	5,847012E+09	7,033605E+09	1,288062E+10
1157	2,923516E+09	2,923567E+09	3,516815E+09	3,516854E+09	5,847083E+09	7,033669E+09	1,288075E+10
1158	2,923638E+09	2,923644E+09	3,516786E+09	3,516804E+09	5,847283E+09	7,033590E+09	1,288087E+10
1159	2,923546E+09	2,923542E+09	3,516802E+09	3,516783E+09	5,847088E+09	7,033584E+09	1,288067E+10
1160	2,923591E+09	2,923625E+09	3,516846E+09	3,516812E+09	5,847216E+09	7,033658E+09	1,288087E+10
1161	2,923632E+09	2,923587E+09	3,516837E+09	3,516761E+09	5,847219E+09	7,033597E+09	1,288082E+10
1162	2,923488E+09	2,923517E+09	3,516836E+09	3,516814E+09	5,847006E+09	7,033649E+09	1,288065E+10
1163	2,923559E+09	2,923607E+09	3,516809E+09	3,516840E+09	5,847166E+09	7,033649E+09	1,288082E+10
1164	2,923518E+09	2,923494E+09	3,516790E+09	3,516807E+09	5,847012E+09	7,033597E+09	1,288061E+10
1165	2,923430E+09	2,923480E+09	3,516817E+09	3,516830E+09	5,846910E+09	7,033647E+09	1,288056E+10

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	2,923559E+09	2,923535E+09	3,516791E+09	3,516781E+09	5,847095E+09	7,033571E+09	1,288067E+10
1167	2,923476E+09	2,923407E+09	3,516789E+09	3,516758E+09	5,846883E+09	7,033547E+09	1,288043E+10
1168	2,923462E+09	2,923485E+09	3,516801E+09	3,516803E+09	5,846947E+09	7,033604E+09	1,288055E+10
1169	2,923537E+09	2,923528E+09	3,516785E+09	3,516760E+09	5,847065E+09	7,033545E+09	1,288061E+10
1170	2,923404E+09	2,923454E+09	3,516797E+09	3,516795E+09	5,846858E+09	7,033591E+09	1,288045E+10
1171	2,923494E+09	2,923560E+09	3,516812E+09	3,516809E+09	5,847054E+09	7,033621E+09	1,288067E+10
1172	2,923555E+09	2,923507E+09	3,516816E+09	3,516774E+09	5,847062E+09	7,033589E+09	1,288065E+10
1173	2,923479E+09	2,923497E+09	3,516832E+09	3,516825E+09	5,846975E+09	7,033658E+09	1,288063E+10
1174	2,923638E+09	2,923639E+09	3,516795E+09	3,516816E+09	5,847278E+09	7,033611E+09	1,288089E+10
1175	2,923602E+09	2,923570E+09	3,516786E+09	3,516798E+09	5,847172E+09	7,033585E+09	1,288076E+10
1176	2,923573E+09	2,923633E+09	3,516807E+09	3,516840E+09	5,847206E+09	7,033647E+09	1,288085E+10
1177	2,923707E+09	2,923705E+09	3,516819E+09	3,516776E+09	5,847412E+09	7,033595E+09	1,288101E+10
1178	2,923592E+09	2,923588E+09	3,516837E+09	3,516788E+09	5,847180E+09	7,033625E+09	1,288080E+10
1179	2,923626E+09	2,923664E+09	3,516842E+09	3,516814E+09	5,847289E+09	7,033656E+09	1,288095E+10
1180	2,923680E+09	2,923640E+09	3,516818E+09	3,516796E+09	5,847319E+09	7,033614E+09	1,288093E+10
1181	2,923517E+09	2,923559E+09	3,516813E+09	3,516851E+09	5,847076E+09	7,033664E+09	1,288074E+10
1182	2,923615E+09	2,923656E+09	3,516789E+09	3,516822E+09	5,847271E+09	7,033611E+09	1,288088E+10
1183	2,923591E+09	2,923533E+09	3,516794E+09	3,516766E+09	5,847124E+09	7,033560E+09	1,288068E+10
1184	2,923504E+09	2,923507E+09	3,516801E+09	3,516800E+09	5,847010E+09	7,033600E+09	1,288061E+10
1185	2,923632E+09	2,923592E+09	3,516790E+09	3,516752E+09	5,847224E+09	7,033543E+09	1,288077E+10
1186	2,923503E+09	2,923483E+09	3,516788E+09	3,516769E+09	5,846985E+09	7,033556E+09	1,288054E+10
1187	2,923476E+09	2,923561E+09	3,516787E+09	3,516800E+09	5,847037E+09	7,033587E+09	1,288062E+10
1188	2,923583E+09	2,923593E+09	3,516793E+09	3,516774E+09	5,847176E+09	7,033566E+09	1,288074E+10
1189	2,923454E+09	2,923492E+09	3,516816E+09	3,516814E+09	5,846945E+09	7,033631E+09	1,288058E+10
1190	2,923574E+09	2,923606E+09	3,516813E+09	3,516800E+09	5,847180E+09	7,033613E+09	1,288079E+10
1191	2,923638E+09	2,923566E+09	3,516816E+09	3,516773E+09	5,847205E+09	7,033589E+09	1,288079E+10
1192	2,923550E+09	2,923563E+09	3,516793E+09	3,516838E+09	5,847113E+09	7,033631E+09	1,288074E+10
1193	2,923710E+09	2,923723E+09	3,516784E+09	3,516804E+09	5,847432E+09	7,033587E+09	1,288102E+10
1194	2,923650E+09	2,923647E+09	3,516800E+09	3,516789E+09	5,847297E+09	7,033589E+09	1,288089E+10
1195	2,923625E+09	2,923685E+09	3,516813E+09	3,516801E+09	5,847310E+09	7,033614E+09	1,288092E+10
1196	2,923777E+09	2,923753E+09	3,516830E+09	3,516775E+09	5,847530E+09	7,033605E+09	1,288114E+10
1197	2,923637E+09	2,923630E+09	3,516840E+09	3,516818E+09	5,847267E+09	7,033659E+09	1,288093E+10
1198	2,923669E+09	2,923723E+09	3,516819E+09	3,516822E+09	5,847392E+09	7,033641E+09	1,288103E+10
1199	2,923722E+09	2,923702E+09	3,516814E+09	3,516798E+09	5,847424E+09	7,033612E+09	1,288104E+10
1200	2,923571E+09	2,923594E+09	3,516790E+09	3,516843E+09	5,847165E+09	7,033633E+09	1,288080E+10
1201	2,923686E+09	2,923689E+09	3,516798E+09	3,516789E+09	5,847375E+09	7,033588E+09	1,288096E+10
1202	2,923642E+09	2,923579E+09	3,516806E+09	3,516757E+09	5,847221E+09	7,033563E+09	1,288078E+10
1203	2,923542E+09	2,923556E+09	3,516781E+09	3,516784E+09	5,847098E+09	7,033565E+09	1,288066E+10
1204	2,923672E+09	2,923667E+09	3,516771E+09	3,516773E+09	5,847339E+09	7,033544E+09	1,288088E+10
1205	2,923526E+09	2,923546E+09	3,516783E+09	3,516799E+09	5,847071E+09	7,033582E+09	1,288065E+10
1206	2,923523E+09	2,923615E+09	3,516791E+09	3,516785E+09	5,847138E+09	7,033575E+09	1,288071E+10
1207	2,923654E+09	2,923636E+09	3,516817E+09	3,516753E+09	5,847290E+09	7,033570E+09	1,288086E+10
1208	2,923536E+09	2,923522E+09	3,516801E+09	3,516811E+09	5,847058E+09	7,033612E+09	1,288067E+10
1209	2,923663E+09	2,923663E+09	3,516805E+09	3,516793E+09	5,847326E+09	7,033598E+09	1,288092E+10
1210	2,923691E+09	2,923655E+09	3,516802E+09	3,516786E+09	5,847346E+09	7,033587E+09	1,288093E+10
1211	2,923594E+09	2,923647E+09	3,516771E+09	3,516821E+09	5,847241E+09	7,033592E+09	1,288083E+10
1212	2,923775E+09	2,923801E+09	3,516791E+09	3,516799E+09	5,847576E+09	7,033590E+09	1,288117E+10
1213	2,923704E+09	2,923696E+09	3,516830E+09	3,516795E+09	5,847400E+09	7,033625E+09	1,288103E+10
1214	2,923690E+09	2,923736E+09	3,516829E+09	3,516792E+09	5,847426E+09	7,033621E+09	1,288105E+10

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							
1215	2,923836E+09	2,923806E+09	3,516837E+09	3,516783E+09	5,847641E+09	7,033620E+09	1,288126E+10
1216	2,923682E+09	2,923676E+09	3,516803E+09	3,516847E+09	5,847358E+09	7,033649E+09	1,288101E+10
1217	2,923725E+09	2,923773E+09	3,516803E+09	3,516819E+09	5,847499E+09	7,033622E+09	1,288112E+10
1218	2,923765E+09	2,923747E+09	3,516811E+09	3,516787E+09	5,847512E+09	7,033598E+09	1,288111E+10
1219	2,923626E+09	2,923627E+09	3,516773E+09	3,516798E+09	5,847252E+09	7,033572E+09	1,288082E+10
1220	2,923756E+09	2,923738E+09	3,516784E+09	3,516775E+09	5,847494E+09	7,033560E+09	1,288105E+10
1221	2,923678E+09	2,923637E+09	3,516802E+09	3,516768E+09	5,847315E+09	7,033570E+09	1,288089E+10
1222	2,923574E+09	2,923635E+09	3,516771E+09	3,516777E+09	5,847209E+09	7,033547E+09	1,288076E+10
1223	2,923703E+09	2,923737E+09	3,516791E+09	3,516769E+09	5,847440E+09	7,033561E+09	1,288100E+10
1224	2,923573E+09	2,923583E+09	3,516792E+09	3,516806E+09	5,847156E+09	7,033598E+09	1,288075E+10
1225	2,923601E+09	2,923642E+09	3,516817E+09	3,516776E+09	5,847242E+09	7,033593E+09	1,288084E+10
1226	2,923717E+09	2,923678E+09	3,516830E+09	3,516768E+09	5,847396E+09	7,033598E+09	1,288099E+10
1227	2,923600E+09	2,923577E+09	3,516767E+09	3,516810E+09	5,847177E+09	7,033577E+09	1,288075E+10
1228	2,923732E+09	2,923749E+09	3,516767E+09	3,516815E+09	5,847481E+09	7,033581E+09	1,288106E+10
1229	2,923742E+09	2,923738E+09	3,516792E+09	3,516798E+09	5,847480E+09	7,033591E+09	1,288107E+10
1230	2,923663E+09	2,923716E+09	3,516776E+09	3,516783E+09	5,847379E+09	7,033559E+09	1,288094E+10
1231	2,923846E+09	2,923859E+09	3,516824E+09	3,516767E+09	5,847705E+09	7,033591E+09	1,288130E+10
1232	2,923773E+09	2,923738E+09	3,516827E+09	3,516796E+09	5,847511E+09	7,033623E+09	1,288113E+10
1233	2,923752E+09	2,923784E+09	3,516830E+09	3,516797E+09	5,847536E+09	7,033627E+09	1,288116E+10
1234	2,923862E+09	2,923876E+09	3,516829E+09	3,516809E+09	5,847738E+09	7,033639E+09	1,288138E+10
1235	2,923717E+09	2,923727E+09	3,516774E+09	3,516838E+09	5,847444E+09	7,033612E+09	1,288106E+10
1236	2,923788E+09	2,923820E+09	3,516792E+09	3,516816E+09	5,847608E+09	7,033608E+09	1,288122E+10
1237	2,923819E+09	2,923783E+09	3,516818E+09	3,516783E+09	5,847602E+09	7,033601E+09	1,288120E+10
1238	2,923686E+09	2,923673E+09	3,516772E+09	3,516770E+09	5,847360E+09	7,033542E+09	1,288090E+10
1239	2,923801E+09	2,923801E+09	3,516792E+09	3,516766E+09	5,847602E+09	7,033558E+09	1,288116E+10
1240	2,923710E+09	2,923695E+09	3,516783E+09	3,516785E+09	5,847406E+09	7,033568E+09	1,288097E+10
1241	2,923619E+09	2,923681E+09	3,516785E+09	3,516773E+09	5,847301E+09	7,033558E+09	1,288086E+10
1242	2,923741E+09	2,923777E+09	3,516814E+09	3,516769E+09	5,847518E+09	7,033583E+09	1,288110E+10
1243	2,923634E+09	2,923608E+09	3,516782E+09	3,516787E+09	5,847242E+09	7,033570E+09	1,288081E+10
1244	2,923686E+09	2,923689E+09	3,516794E+09	3,516789E+09	5,847375E+09	7,033582E+09	1,288096E+10
1245	2,923775E+09	2,923744E+09	3,516807E+09	3,516792E+09	5,847519E+09	7,033599E+09	1,288112E+10
1246	2,923660E+09	2,923673E+09	3,516742E+09	3,516796E+09	5,847333E+09	7,033537E+09	1,288087E+10
1247	2,923792E+09	2,923840E+09	3,516776E+09	3,516789E+09	5,847632E+09	7,033564E+09	1,288120E+10
1248	2,923804E+09	2,923798E+09	3,516803E+09	3,516785E+09	5,847602E+09	7,033588E+09	1,288119E+10
1249	2,923741E+09	2,923763E+09	3,516814E+09	3,516766E+09	5,847505E+09	7,033580E+09	1,288108E+10
1250	2,923893E+09	2,923911E+09	3,516848E+09	3,516782E+09	5,847803E+09	7,033630E+09	1,288143E+10
1251	2,923817E+09	2,923789E+09	3,516804E+09	3,516811E+09	5,847606E+09	7,033615E+09	1,288122E+10
1252	2,923807E+09	2,923849E+09	3,516793E+09	3,516831E+09	5,847656E+09	7,033624E+09	1,288128E+10
1253	2,923904E+09	2,923925E+09	3,516816E+09	3,516824E+09	5,847828E+09	7,033641E+09	1,288147E+10
1254	2,923785E+09	2,923773E+09	3,516764E+09	3,516793E+09	5,847558E+09	7,033558E+09	1,288112E+10
1255	2,923861E+09	2,923864E+09	3,516801E+09	3,516772E+09	5,847725E+09	7,033573E+09	1,288130E+10
1256	2,923880E+09	2,923827E+09	3,516805E+09	3,516771E+09	5,847707E+09	7,033577E+09	1,288128E+10
1257	2,923738E+09	2,923731E+09	3,516778E+09	3,516762E+09	5,847469E+09	7,033541E+09	1,288101E+10
1258	2,923809E+09	2,923874E+09	3,516805E+09	3,516780E+09	5,847682E+09	7,033585E+09	1,288127E+10
1259	2,923735E+09	2,923741E+09	3,516783E+09	3,516783E+09	5,847476E+09	7,033565E+09	1,288104E+10
1260	2,923675E+09	2,923717E+09	3,516790E+09	3,516790E+09	5,847392E+09	7,033580E+09	1,288097E+10
1261	2,923797E+09	2,923805E+09	3,516825E+09	3,516792E+09	5,847602E+09	7,033617E+09	1,288122E+10
1262	2,923710E+09	2,923655E+09	3,516761E+09	3,516776E+09	5,847364E+09	7,033537E+09	1,288090E+10
1263	2,923753E+09	2,923765E+09	3,516771E+09	3,516786E+09	5,847518E+09	7,033557E+09	1,288108E+10

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							
1264	2,923834E+09	2,923826E+09	3,516769E+09	3,516796E+09	5,847661E+09	7,033565E+09	1,288123E+10
1265	2,923732E+09	2,923741E+09	3,516754E+09	3,516765E+09	5,847473E+09	7,033519E+09	1,288099E+10
1266	2,923842E+09	2,923905E+09	3,516812E+09	3,516763E+09	5,847746E+09	7,033575E+09	1,288132E+10
1267	2,923868E+09	2,923842E+09	3,516810E+09	3,516761E+09	5,847710E+09	7,033571E+09	1,288128E+10
1268	2,923812E+09	2,923818E+09	3,516807E+09	3,516789E+09	5,847630E+09	7,033596E+09	1,288123E+10
1269	2,923931E+09	2,923972E+09	3,516838E+09	3,516821E+09	5,847904E+09	7,033659E+09	1,288156E+10
1270	2,923866E+09	2,923860E+09	3,516779E+09	3,516810E+09	5,847726E+09	7,033590E+09	1,288132E+10
1271	2,923867E+09	2,923911E+09	3,516793E+09	3,516816E+09	5,847779E+09	7,033609E+09	1,288139E+10
1272	2,923972E+09	2,923964E+09	3,516811E+09	3,516810E+09	5,847936E+09	7,033621E+09	1,288156E+10
1273	2,923867E+09	2,923809E+09	3,516786E+09	3,516762E+09	5,847676E+09	7,033548E+09	1,288122E+10
1274	2,923901E+09	2,923920E+09	3,516816E+09	3,516766E+09	5,847821E+09	7,033582E+09	1,288140E+10
1275	2,923909E+09	2,923885E+09	3,516783E+09	3,516775E+09	5,847793E+09	7,033558E+09	1,288135E+10
1276	2,923774E+09	2,923797E+09	3,516759E+09	3,516793E+09	5,847571E+09	7,033552E+09	1,288112E+10
1277	2,923831E+09	2,923911E+09	3,516812E+09	3,516799E+09	5,847742E+09	7,033611E+09	1,288135E+10
1278	2,923792E+09	2,923774E+09	3,516783E+09	3,516758E+09	5,847565E+09	7,033541E+09	1,288111E+10
1279	2,923753E+09	2,923754E+09	3,516785E+09	3,516769E+09	5,847507E+09	7,033554E+09	1,288106E+10
1280	2,923867E+09	2,923847E+09	3,516794E+09	3,516794E+09	5,847714E+09	7,033588E+09	1,288130E+10
1281	2,923783E+09	2,923728E+09	3,516748E+09	3,516761E+09	5,847511E+09	7,033510E+09	1,288102E+10
1282	2,923791E+09	2,923857E+09	3,516773E+09	3,516774E+09	5,847648E+09	7,033547E+09	1,288120E+10
1283	2,923884E+09	2,923895E+09	3,516772E+09	3,516770E+09	5,847779E+09	7,033542E+09	1,288132E+10
1284	2,923803E+09	2,923802E+09	3,516773E+09	3,516767E+09	5,847605E+09	7,033540E+09	1,288114E+10
1285	2,923891E+09	2,923948E+09	3,516843E+09	3,516784E+09	5,847839E+09	7,033627E+09	1,288147E+10
1286	2,923929E+09	2,923897E+09	3,516808E+09	3,516768E+09	5,847826E+09	7,033576E+09	1,288140E+10
1287	2,923871E+09	2,923888E+09	3,516789E+09	3,516810E+09	5,847759E+09	7,033599E+09	1,288136E+10
1288	2,923987E+09	2,924031E+09	3,516804E+09	3,516843E+09	5,848019E+09	7,033647E+09	1,288167E+10
1289	2,923949E+09	2,923909E+09	3,516779E+09	3,516783E+09	5,847858E+09	7,033562E+09	1,288142E+10
1290	2,923929E+09	2,923964E+09	3,516806E+09	3,516782E+09	5,847893E+09	7,033587E+09	1,288148E+10
1291	2,924040E+09	2,924006E+09	3,516798E+09	3,516777E+09	5,848045E+09	7,033575E+09	1,288162E+10
1292	2,923926E+09	2,923871E+09	3,516772E+09	3,516770E+09	5,847797E+09	7,033542E+09	1,288134E+10
1293	2,923914E+09	2,923987E+09	3,516818E+09	3,516792E+09	5,847901E+09	7,033610E+09	1,288151E+10
1294	2,923932E+09	2,923948E+09	3,516776E+09	3,516768E+09	5,847880E+09	7,033544E+09	1,288142E+10
1295	2,923813E+09	2,923841E+09	3,516771E+09	3,516788E+09	5,847655E+09	7,033559E+09	1,288121E+10
1296	2,923886E+09	2,923931E+09	3,516812E+09	3,516803E+09	5,847818E+09	7,033615E+09	1,288143E+10
1297	2,923875E+09	2,923794E+09	3,516791E+09	3,516742E+09	5,847669E+09	7,033533E+09	1,288120E+10
1298	2,923806E+09	2,923811E+09	3,516779E+09	3,516766E+09	5,847617E+09	7,033545E+09	1,288116E+10
1299	2,923920E+09	2,923914E+09	3,516752E+09	3,516789E+09	5,847834E+09	7,033540E+09	1,288137E+10
1300	2,923843E+09	2,923812E+09	3,516727E+09	3,516766E+09	5,847655E+09	7,033493E+09	1,288115E+10
1301	2,923832E+09	2,923920E+09	3,516794E+09	3,516767E+09	5,847752E+09	7,033562E+09	1,288131E+10
1302	2,923948E+09	2,923950E+09	3,516787E+09	3,516737E+09	5,847898E+09	7,033524E+09	1,288142E+10
1303	2,923877E+09	2,923859E+09	3,516786E+09	3,516763E+09	5,847736E+09	7,033549E+09	1,288129E+10
1304	2,923951E+09	2,924001E+09	3,516828E+09	3,516812E+09	5,847952E+09	7,033641E+09	1,288159E+10
1305	2,923998E+09	2,923966E+09	3,516801E+09	3,516779E+09	5,847964E+09	7,033580E+09	1,288154E+10
1306	2,923919E+09	2,923969E+09	3,516786E+09	3,516812E+09	5,847887E+09	7,033598E+09	1,288149E+10
1307	2,924052E+09	2,924082E+09	3,516792E+09	3,516824E+09	5,848134E+09	7,033616E+09	1,288175E+10
1308	2,924032E+09	2,923967E+09	3,516780E+09	3,516775E+09	5,847999E+09	7,033554E+09	1,288155E+10
1309	2,923980E+09	2,924009E+09	3,516819E+09	3,516781E+09	5,847989E+09	7,033600E+09	1,288159E+10
1310	2,924082E+09	2,924066E+09	3,516788E+09	3,516766E+09	5,848149E+09	7,033554E+09	1,288170E+10
1311	2,923961E+09	2,923945E+09	3,516758E+09	3,516780E+09	5,847906E+09	7,033538E+09	1,288144E+10
1312	2,923938E+09	2,924029E+09	3,516805E+09	3,516808E+09	5,847967E+09	7,033614E+09	1,288158E+10

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	2,923990E+09	2,923973E+09	3,516795E+09	3,516747E+09	5,847962E+09	7,033542E+09	1,288150E+10
1314	2,923867E+09	2,923871E+09	3,516783E+09	3,516765E+09	5,847738E+09	7,033548E+09	1,288129E+10
1315	2,923955E+09	2,923953E+09	3,516786E+09	3,516787E+09	5,847909E+09	7,033573E+09	1,288148E+10
1316	2,923945E+09	2,923860E+09	3,516757E+09	3,516751E+09	5,847805E+09	7,033508E+09	1,288131E+10
1317	2,923837E+09	2,923890E+09	3,516766E+09	3,516778E+09	5,847727E+09	7,033544E+09	1,288127E+10
1318	2,923961E+09	2,923996E+09	3,516746E+09	3,516765E+09	5,847957E+09	7,033511E+09	1,288147E+10
1319	2,923900E+09	2,923885E+09	3,516748E+09	3,516752E+09	5,847785E+09	7,033501E+09	1,288129E+10
1320	2,923890E+09	2,923962E+09	3,516817E+09	3,516775E+09	5,847852E+09	7,033592E+09	1,288144E+10
1321	2,924027E+09	2,923991E+09	3,516813E+09	3,516738E+09	5,848018E+09	7,033551E+09	1,288157E+10
1322	2,923929E+09	2,923927E+09	3,516789E+09	3,516784E+09	5,847855E+09	7,033573E+09	1,288143E+10
1323	2,924011E+09	2,924064E+09	3,516788E+09	3,516832E+09	5,848075E+09	7,033620E+09	1,288169E+10
1324	2,924073E+09	2,924036E+09	3,516773E+09	3,516791E+09	5,848109E+09	7,033563E+09	1,288167E+10
1325	2,923980E+09	2,924023E+09	3,516792E+09	3,516800E+09	5,848003E+09	7,033591E+09	1,288159E+10
1326	2,924128E+09	2,924133E+09	3,516784E+09	3,516774E+09	5,848260E+09	7,033558E+09	1,288182E+10
1327	2,924100E+09	2,924030E+09	3,516775E+09	3,516753E+09	5,848130E+09	7,033528E+09	1,288166E+10
1328	2,924019E+09	2,924069E+09	3,516809E+09	3,516791E+09	5,848088E+09	7,033599E+09	1,288169E+10
1329	2,924122E+09	2,924127E+09	3,516794E+09	3,516762E+09	5,848249E+09	7,033556E+09	1,288180E+10
1330	2,923982E+09	2,924004E+09	3,516778E+09	3,516779E+09	5,847986E+09	7,033557E+09	1,288154E+10
1331	2,923983E+09	2,924049E+09	3,516803E+09	3,516802E+09	5,848032E+09	7,033605E+09	1,288164E+10
1332	2,924058E+09	2,924000E+09	3,516794E+09	3,516754E+09	5,848058E+09	7,033548E+09	1,288161E+10
1333	2,923916E+09	2,923904E+09	3,516781E+09	3,516777E+09	5,847820E+09	7,033558E+09	1,288138E+10
1334	2,924006E+09	2,924013E+09	3,516750E+09	3,516780E+09	5,848018E+09	7,033530E+09	1,288155E+10
1335	2,923994E+09	2,923949E+09	3,516726E+09	3,516755E+09	5,847944E+09	7,033481E+09	1,288142E+10
1336	2,923881E+09	2,923954E+09	3,516760E+09	3,516776E+09	5,847835E+09	7,033536E+09	1,288137E+10
1337	2,924029E+09	2,924047E+09	3,516778E+09	3,516731E+09	5,848076E+09	7,033509E+09	1,288159E+10
1338	2,923960E+09	2,923942E+09	3,516782E+09	3,516733E+09	5,847902E+09	7,033515E+09	1,288142E+10
1339	2,923956E+09	2,924000E+09	3,516809E+09	3,516782E+09	5,847956E+09	7,033591E+09	1,288155E+10
1340	2,924094E+09	2,924063E+09	3,516795E+09	3,516771E+09	5,848158E+09	7,033566E+09	1,288172E+10
1341	2,923972E+09	2,924001E+09	3,516775E+09	3,516809E+09	5,847973E+09	7,033583E+09	1,288156E+10
1342	2,924070E+09	2,924130E+09	3,516770E+09	3,516813E+09	5,848200E+09	7,033583E+09	1,288178E+10
1343	2,924151E+09	2,924108E+09	3,516770E+09	3,516770E+09	5,848259E+09	7,033540E+09	1,288180E+10
1344	2,924050E+09	2,924066E+09	3,516798E+09	3,516788E+09	5,848116E+09	7,033586E+09	1,288170E+10
1345	2,924201E+09	2,924181E+09	3,516803E+09	3,516754E+09	5,848381E+09	7,033558E+09	1,288194E+10
1346	2,924136E+09	2,924105E+09	3,516782E+09	3,516755E+09	5,848240E+09	7,033537E+09	1,288178E+10
1347	2,924050E+09	2,924120E+09	3,516787E+09	3,516805E+09	5,848170E+09	7,033592E+09	1,288176E+10
1348	2,924165E+09	2,924176E+09	3,516789E+09	3,516775E+09	5,848340E+09	7,033564E+09	1,288190E+10
1349	2,924021E+09	2,924028E+09	3,516791E+09	3,516780E+09	5,848049E+09	7,033571E+09	1,288162E+10
1350	2,924045E+09	2,924070E+09	3,516788E+09	3,516778E+09	5,848115E+09	7,033565E+09	1,288168E+10
1351	2,924125E+09	2,924052E+09	3,516766E+09	3,516753E+09	5,848178E+09	7,033519E+09	1,288170E+10
1352	2,923961E+09	2,923966E+09	3,516754E+09	3,516787E+09	5,847928E+09	7,033541E+09	1,288147E+10
1353	2,924058E+09	2,924086E+09	3,516748E+09	3,516760E+09	5,848144E+09	7,033509E+09	1,288165E+10
1354	2,924030E+09	2,924029E+09	3,516754E+09	3,516733E+09	5,848059E+09	7,033487E+09	1,288155E+10
1355	2,923938E+09	2,923995E+09	3,516777E+09	3,516766E+09	5,847933E+09	7,033543E+09	1,288148E+10
1356	2,924098E+09	2,924088E+09	3,516798E+09	3,516740E+09	5,848185E+09	7,033538E+09	1,288172E+10
1357	2,924008E+09	2,923986E+09	3,516796E+09	3,516763E+09	5,847994E+09	7,033559E+09	1,288155E+10
1358	2,924011E+09	2,924059E+09	3,516774E+09	3,516794E+09	5,848070E+09	7,033569E+09	1,288164E+10
1359	2,924155E+09	2,924143E+09	3,516756E+09	3,516788E+09	5,848298E+09	7,033544E+09	1,288184E+10
1360	2,924039E+09	2,924059E+09	3,516760E+09	3,516803E+09	5,848099E+09	7,033564E+09	1,288166E+10
1361	2,924163E+09	2,924180E+09	3,516780E+09	3,516765E+09	5,848343E+09	7,033545E+09	1,288189E+10

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	2,924224E+09	2,924177E+09	3,516787E+09	3,516731E+09	5,848401E+09	7,033518E+09	1,288192E+10
1363	2,924115E+09	2,924122E+09	3,516785E+09	3,516780E+09	5,848237E+09	7,033565E+09	1,288180E+10
1364	2,924243E+09	2,924258E+09	3,516798E+09	3,516771E+09	5,848501E+09	7,033569E+09	1,288207E+10
1365	2,924150E+09	2,924172E+09	3,516795E+09	3,516780E+09	5,848322E+09	7,033575E+09	1,288190E+10
1366	2,924081E+09	2,924161E+09	3,516786E+09	3,516800E+09	5,848242E+09	7,033586E+09	1,288183E+10
1367	2,924220E+09	2,924216E+09	3,516787E+09	3,516780E+09	5,848436E+09	7,033567E+09	1,288200E+10
1368	2,924083E+09	2,924048E+09	3,516786E+09	3,516787E+09	5,848131E+09	7,033573E+09	1,288170E+10
1369	2,924117E+09	2,924107E+09	3,516779E+09	3,516765E+09	5,848224E+09	7,033544E+09	1,288177E+10
1370	2,924169E+09	2,924132E+09	3,516752E+09	3,516744E+09	5,848302E+09	7,033495E+09	1,288180E+10
1371	2,924008E+09	2,924026E+09	3,516729E+09	3,516782E+09	5,848033E+09	7,033510E+09	1,288154E+10
1372	2,924109E+09	2,924146E+09	3,516764E+09	3,516745E+09	5,848255E+09	7,033509E+09	1,288176E+10
1373	2,924076E+09	2,924070E+09	3,516785E+09	3,516720E+09	5,848145E+09	7,033506E+09	1,288165E+10
1374	2,923993E+09	2,924026E+09	3,516777E+09	3,516750E+09	5,848019E+09	7,033528E+09	1,288155E+10
1375	2,924157E+09	2,924152E+09	3,516776E+09	3,516763E+09	5,848309E+09	7,033538E+09	1,288185E+10
1376	2,924057E+09	2,924048E+09	3,516771E+09	3,516792E+09	5,848106E+09	7,033563E+09	1,288167E+10
1377	2,924081E+09	2,924128E+09	3,516764E+09	3,516786E+09	5,848208E+09	7,033551E+09	1,288176E+10
1378	2,924221E+09	2,924224E+09	3,516768E+09	3,516761E+09	5,848445E+09	7,033529E+09	1,288197E+10
1379	2,924123E+09	2,924110E+09	3,516761E+09	3,516781E+09	5,848232E+09	7,033543E+09	1,288177E+10
1380	2,924242E+09	2,924239E+09	3,516795E+09	3,516754E+09	5,848482E+09	7,033550E+09	1,288203E+10
1381	2,924266E+09	2,924242E+09	3,516803E+09	3,516746E+09	5,848509E+09	7,033550E+09	1,288206E+10
1382	2,924147E+09	2,924190E+09	3,516766E+09	3,516792E+09	5,848337E+09	7,033558E+09	1,288189E+10
1383	2,924278E+09	2,924331E+09	3,516778E+09	3,516796E+09	5,848608E+09	7,033574E+09	1,288218E+10
1384	2,924195E+09	2,924203E+09	3,516801E+09	3,516789E+09	5,848399E+09	7,033590E+09	1,288199E+10
1385	2,924160E+09	2,924179E+09	3,516793E+09	3,516771E+09	5,848339E+09	7,033564E+09	1,288190E+10
1386	2,924287E+09	2,924256E+09	3,516788E+09	3,516754E+09	5,848543E+09	7,033543E+09	1,288209E+10
1387	2,924150E+09	2,924092E+09	3,516753E+09	3,516781E+09	5,848242E+09	7,033534E+09	1,288178E+10
1388	2,924167E+09	2,924178E+09	3,516757E+09	3,516759E+09	5,848346E+09	7,033516E+09	1,288186E+10
1389	2,924190E+09	2,924205E+09	3,516763E+09	3,516740E+09	5,848395E+09	7,033503E+09	1,288190E+10
1390	2,924044E+09	2,924077E+09	3,516735E+09	3,516757E+09	5,848121E+09	7,033493E+09	1,288161E+10
1391	2,924155E+09	2,924195E+09	3,516773E+09	3,516747E+09	5,848350E+09	7,033520E+09	1,288187E+10
1392	2,924128E+09	2,924098E+09	3,516802E+09	3,516742E+09	5,848226E+09	7,033544E+09	1,288177E+10
1393	2,924062E+09	2,924068E+09	3,516769E+09	3,516760E+09	5,848130E+09	7,033529E+09	1,288166E+10
1394	2,924209E+09	2,924232E+09	3,516758E+09	3,516771E+09	5,848441E+09	7,033529E+09	1,288197E+10
1395	2,924128E+09	2,924113E+09	3,516735E+09	3,516793E+09	5,848241E+09	7,033528E+09	1,288177E+10
1396	2,924164E+09	2,924192E+09	3,516764E+09	3,516761E+09	5,848356E+09	7,033525E+09	1,288188E+10
1397	2,924290E+09	2,924285E+09	3,516790E+09	3,516736E+09	5,848575E+09	7,033526E+09	1,288210E+10
1398	2,924190E+09	2,924168E+09	3,516757E+09	3,516756E+09	5,848359E+09	7,033513E+09	1,288187E+10
1399	2,924292E+09	2,924325E+09	3,516783E+09	3,516770E+09	5,848617E+09	7,033552E+09	1,288217E+10
1400	2,924301E+09	2,924312E+09	3,516805E+09	3,516775E+09	5,848612E+09	7,033580E+09	1,288219E+10
1401	2,924197E+09	2,924244E+09	3,516776E+09	3,516792E+09	5,848441E+09	7,033568E+09	1,288201E+10
1402	2,924328E+09	2,924384E+09	3,516799E+09	3,516783E+09	5,848712E+09	7,033582E+09	1,288229E+10
1403	2,924271E+09	2,924220E+09	3,516792E+09	3,516784E+09	5,848491E+09	7,033577E+09	1,288207E+10
1404	2,924237E+09	2,924211E+09	3,516789E+09	3,516765E+09	5,848448E+09	7,033555E+09	1,288200E+10
1405	2,924330E+09	2,924310E+09	3,516775E+09	3,516759E+09	5,848640E+09	7,033534E+09	1,288217E+10
1406	2,924180E+09	2,924157E+09	3,516714E+09	3,516770E+09	5,848337E+09	7,033483E+09	1,288182E+10
1407	2,924199E+09	2,924256E+09	3,516736E+09	3,516756E+09	5,848455E+09	7,033493E+09	1,288195E+10
1408	2,924231E+09	2,924242E+09	3,516781E+09	3,516730E+09	5,848473E+09	7,033512E+09	1,288198E+10
1409	2,924110E+09	2,924106E+09	3,516756E+09	3,516732E+09	5,848216E+09	7,033488E+09	1,288170E+10
1410	2,924209E+09	2,924245E+09	3,516784E+09	3,516738E+09	5,848455E+09	7,033522E+09	1,288198E+10

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							
1411	2,924188E+09	2,924146E+09	3,516773E+09	3,516762E+09	5,848335E+09	7,033535E+09	1,288187E+10
1412	2,924122E+09	2,924141E+09	3,516751E+09	3,516770E+09	5,848263E+09	7,033521E+09	1,288178E+10
1413	2,924257E+09	2,924303E+09	3,516763E+09	3,516772E+09	5,848560E+09	7,033535E+09	1,288209E+10
1414	2,924195E+09	2,924175E+09	3,516731E+09	3,516764E+09	5,848370E+09	7,033495E+09	1,288186E+10
1415	2,924241E+09	2,924264E+09	3,516763E+09	3,516752E+09	5,848504E+09	7,033515E+09	1,288202E+10
1416	2,924355E+09	2,924338E+09	3,516808E+09	3,516746E+09	5,848693E+09	7,033554E+09	1,288225E+10
1417	2,924256E+09	2,924235E+09	3,516759E+09	3,516761E+09	5,848491E+09	7,033520E+09	1,288201E+10
1418	2,924329E+09	2,924409E+09	3,516784E+09	3,516778E+09	5,848737E+09	7,033563E+09	1,288230E+10
1419	2,924358E+09	2,924359E+09	3,516793E+09	3,516788E+09	5,848717E+09	7,033581E+09	1,288230E+10
1420	2,924274E+09	2,924276E+09	3,516781E+09	3,516775E+09	5,848550E+09	7,033555E+09	1,288210E+10
1421	2,924389E+09	2,924412E+09	3,516807E+09	3,516769E+09	5,848801E+09	7,033576E+09	1,288238E+10
1422	2,924333E+09	2,924263E+09	3,516756E+09	3,516762E+09	5,848597E+09	7,033518E+09	1,288211E+10
1423	2,924283E+09	2,924289E+09	3,516742E+09	3,516770E+09	5,848572E+09	7,033512E+09	1,288208E+10
1424	2,924357E+09	2,924378E+09	3,516768E+09	3,516766E+09	5,848735E+09	7,033533E+09	1,288227E+10
1425	2,924223E+09	2,924218E+09	3,516725E+09	3,516747E+09	5,848441E+09	7,033472E+09	1,288191E+10
1426	2,924234E+09	2,924313E+09	3,516772E+09	3,516731E+09	5,848547E+09	7,033503E+09	1,288205E+10
1427	2,924289E+09	2,924265E+09	3,516793E+09	3,516734E+09	5,848555E+09	7,033527E+09	1,288208E+10
1428	2,924175E+09	2,924136E+09	3,516766E+09	3,516743E+09	5,848311E+09	7,033508E+09	1,288182E+10
1429	2,924250E+09	2,924298E+09	3,516778E+09	3,516765E+09	5,848548E+09	7,033544E+09	1,288209E+10
1430	2,924236E+09	2,924211E+09	3,516729E+09	3,516768E+09	5,848448E+09	7,033497E+09	1,288194E+10
1431	2,924186E+09	2,924220E+09	3,516719E+09	3,516770E+09	5,848406E+09	7,033489E+09	1,288190E+10
1432	2,924331E+09	2,924352E+09	3,516775E+09	3,516754E+09	5,848684E+09	7,033529E+09	1,288221E+10
1433	2,924285E+09	2,924231E+09	3,516743E+09	3,516727E+09	5,848516E+09	7,033470E+09	1,288199E+10
1434	2,924305E+09	2,924346E+09	3,516778E+09	3,516732E+09	5,848651E+09	7,033510E+09	1,288216E+10
1435	2,924413E+09	2,924406E+09	3,516793E+09	3,516763E+09	5,848819E+09	7,033556E+09	1,288238E+10
1436	2,924307E+09	2,924307E+09	3,516766E+09	3,516774E+09	5,848615E+09	7,033540E+09	1,288215E+10
1437	2,924366E+09	2,924466E+09	3,516803E+09	3,516787E+09	5,848832E+09	7,033590E+09	1,288242E+10
1438	2,924413E+09	2,924394E+09	3,516782E+09	3,516776E+09	5,848807E+09	7,033558E+09	1,288237E+10
1439	2,924344E+09	2,924324E+09	3,516758E+09	3,516780E+09	5,848668E+09	7,033538E+09	1,288221E+10
1440	2,924450E+09	2,924446E+09	3,516797E+09	3,516779E+09	5,848896E+09	7,033576E+09	1,288247E+10
1441	2,924389E+09	2,924329E+09	3,516730E+09	3,516751E+09	5,848718E+09	7,033481E+09	1,288220E+10
1442	2,924315E+09	2,924375E+09	3,516734E+09	3,516750E+09	5,848690E+09	7,033484E+09	1,288217E+10
1443	2,924401E+09	2,924423E+09	3,516766E+09	3,516753E+09	5,848824E+09	7,033520E+09	1,288234E+10
1444	2,924282E+09	2,924248E+09	3,516757E+09	3,516722E+09	5,848531E+09	7,033478E+09	1,288201E+10
1445	2,924275E+09	2,924339E+09	3,516800E+09	3,516729E+09	5,848614E+09	7,033529E+09	1,288214E+10
1446	2,924333E+09	2,924301E+09	3,516770E+09	3,516740E+09	5,848634E+09	7,033510E+09	1,288214E+10
1447	2,924222E+09	2,924210E+09	3,516720E+09	3,516771E+09	5,848432E+09	7,033491E+09	1,288192E+10
1448	2,924297E+09	2,924355E+09	3,516766E+09	3,516785E+09	5,848652E+09	7,033552E+09	1,288220E+10
1449	2,924309E+09	2,924280E+09	3,516725E+09	3,516744E+09	5,848588E+09	7,033468E+09	1,288206E+10
1450	2,924257E+09	2,924294E+09	3,516739E+09	3,516733E+09	5,848551E+09	7,033472E+09	1,288202E+10
1451	2,924413E+09	2,924402E+09	3,516784E+09	3,516748E+09	5,848815E+09	7,033531E+09	1,288235E+10
1452	2,924361E+09	2,924292E+09	3,516758E+09	3,516725E+09	5,848653E+09	7,033482E+09	1,288213E+10
1453	2,924337E+09	2,924421E+09	3,516784E+09	3,516757E+09	5,848758E+09	7,033541E+09	1,288230E+10
1454	2,924447E+09	2,924477E+09	3,516765E+09	3,516776E+09	5,848924E+09	7,033541E+09	1,288247E+10
1455	2,924365E+09	2,924371E+09	3,516743E+09	3,516785E+09	5,848737E+09	7,033528E+09	1,288226E+10
1456	2,924437E+09	2,924489E+09	3,516814E+09	3,516785E+09	5,848926E+09	7,033599E+09	1,288252E+10
1457	2,924499E+09	2,924436E+09	3,516769E+09	3,516748E+09	5,848935E+09	7,033517E+09	1,288245E+10
1458	2,924406E+09	2,924398E+09	3,516745E+09	3,516756E+09	5,848804E+09	7,033501E+09	1,288230E+10
1459	2,924501E+09	2,924511E+09	3,516770E+09	3,516780E+09	5,849011E+09	7,033550E+09	1,288256E+10

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							
1460	2,924432E+09	2,924397E+09	3,516742E+09	3,516735E+09	5,848829E+09	7,033477E+09	1,288231E+10
1461	2,924336E+09	2,924428E+09	3,516773E+09	3,516740E+09	5,848764E+09	7,033513E+09	1,288228E+10
1462	2,924435E+09	2,924452E+09	3,516775E+09	3,516743E+09	5,848887E+09	7,033518E+09	1,288241E+10
1463	2,924334E+09	2,924286E+09	3,516751E+09	3,516745E+09	5,848619E+09	7,033497E+09	1,288212E+10
1464	2,924322E+09	2,924360E+09	3,516800E+09	3,516765E+09	5,848682E+09	7,033566E+09	1,288225E+10
1465	2,924386E+09	2,924358E+09	3,516736E+09	3,516754E+09	5,848744E+09	7,033489E+09	1,288223E+10
1466	2,924276E+09	2,924294E+09	3,516699E+09	3,516759E+09	5,848570E+09	7,033458E+09	1,288203E+10
1467	2,924374E+09	2,924402E+09	3,516749E+09	3,516766E+09	5,848776E+09	7,033515E+09	1,288229E+10
1468	2,924397E+09	2,924331E+09	3,516744E+09	3,516701E+09	5,848728E+09	7,033445E+09	1,288217E+10
1469	2,924318E+09	2,924357E+09	3,516762E+09	3,516713E+09	5,848675E+09	7,033475E+09	1,288215E+10
1470	2,924455E+09	2,924469E+09	3,516765E+09	3,516746E+09	5,848925E+09	7,033511E+09	1,288244E+10
1471	2,924402E+09	2,924385E+09	3,516736E+09	3,516757E+09	5,848787E+09	7,033493E+09	1,288228E+10
1472	2,924377E+09	2,924475E+09	3,516796E+09	3,516786E+09	5,848852E+09	7,033583E+09	1,288243E+10
1473	2,924510E+09	2,924531E+09	3,516769E+09	3,516768E+09	5,849041E+09	7,033537E+09	1,288258E+10
1474	2,924441E+09	2,924429E+09	3,516752E+09	3,516762E+09	5,848871E+09	7,033514E+09	1,288239E+10
1475	2,924523E+09	2,924519E+09	3,516802E+09	3,516784E+09	5,849042E+09	7,033586E+09	1,288263E+10
1476	2,924575E+09	2,924492E+09	3,516764E+09	3,516737E+09	5,849067E+09	7,033501E+09	1,288257E+10
1477	2,924439E+09	2,924474E+09	3,516741E+09	3,516757E+09	5,848913E+09	7,033498E+09	1,288241E+10
1478	2,924524E+09	2,924573E+09	3,516750E+09	3,516769E+09	5,849098E+09	7,033519E+09	1,288262E+10
1479	2,924476E+09	2,924453E+09	3,516740E+09	3,516732E+09	5,848929E+09	7,033472E+09	1,288240E+10
1480	2,924382E+09	2,924439E+09	3,516803E+09	3,516745E+09	5,848822E+09	7,033548E+09	1,288237E+10
1481	2,924491E+09	2,924486E+09	3,516769E+09	3,516738E+09	5,848977E+09	7,033507E+09	1,288248E+10
1482	2,924383E+09	2,924347E+09	3,516732E+09	3,516746E+09	5,848730E+09	7,033478E+09	1,288221E+10
1483	2,924376E+09	2,924411E+09	3,516765E+09	3,516785E+09	5,848787E+09	7,033550E+09	1,288234E+10
1484	2,924451E+09	2,924420E+09	3,516731E+09	3,516734E+09	5,848871E+09	7,033465E+09	1,288234E+10
1485	2,924325E+09	2,924356E+09	3,516720E+09	3,516734E+09	5,848681E+09	7,033453E+09	1,288213E+10
1486	2,924430E+09	2,924455E+09	3,516749E+09	3,516738E+09	5,848885E+09	7,033487E+09	1,288237E+10
1487	2,924463E+09	2,924399E+09	3,516740E+09	3,516707E+09	5,848862E+09	7,033448E+09	1,288231E+10
1488	2,924365E+09	2,924407E+09	3,516779E+09	3,516745E+09	5,848772E+09	7,033523E+09	1,288230E+10
1489	2,924498E+09	2,924548E+09	3,516748E+09	3,516760E+09	5,849046E+09	7,033508E+09	1,288255E+10
1490	2,924455E+09	2,924465E+09	3,516735E+09	3,516756E+09	5,848919E+09	7,033491E+09	1,288241E+10
1491	2,924458E+09	2,924506E+09	3,516793E+09	3,516786E+09	5,848964E+09	7,033579E+09	1,288254E+10
1492	2,924608E+09	2,924565E+09	3,516782E+09	3,516738E+09	5,849173E+09	7,033520E+09	1,288269E+10
1493	2,924512E+09	2,924487E+09	3,516756E+09	3,516747E+09	5,849000E+09	7,033502E+09	1,288250E+10
1494	2,924574E+09	2,924587E+09	3,516762E+09	3,516775E+09	5,849161E+09	7,033538E+09	1,288270E+10
1495	2,924616E+09	2,924586E+09	3,516737E+09	3,516748E+09	5,849202E+09	7,033485E+09	1,288269E+10
1496	2,924469E+09	2,924527E+09	3,516766E+09	3,516768E+09	5,848997E+09	7,033534E+09	1,288253E+10
1497	2,924560E+09	2,924621E+09	3,516767E+09	3,516754E+09	5,849181E+09	7,033521E+09	1,288270E+10
1498	2,924527E+09	2,924498E+09	3,516765E+09	3,516723E+09	5,849025E+09	7,033488E+09	1,288251E+10
1499	2,924445E+09	2,924448E+09	3,516794E+09	3,516766E+09	5,848893E+09	7,033560E+09	1,288245E+10
1500	2,924550E+09	2,924520E+09	3,516757E+09	3,516744E+09	5,849070E+09	7,033501E+09	1,288257E+10
1501	2,924420E+09	2,924415E+09	3,516710E+09	3,516750E+09	5,848835E+09	7,033460E+09	1,288230E+10
1502	2,924419E+09	2,924464E+09	3,516725E+09	3,516764E+09	5,848884E+09	7,033489E+09	1,288237E+10
1503	2,924518E+09	2,924483E+09	3,516721E+09	3,516711E+09	5,849001E+09	7,033432E+09	1,288243E+10
1504	2,924392E+09	2,924391E+09	3,516748E+09	3,516719E+09	5,848783E+09	7,033467E+09	1,288225E+10
1505	2,924486E+09	2,924517E+09	3,516749E+09	3,516720E+09	5,849003E+09	7,033469E+09	1,288247E+10
1506	2,924511E+09	2,924489E+09	3,516741E+09	3,516709E+09	5,848999E+09	7,033450E+09	1,288245E+10
1507	2,924416E+09	2,924465E+09	3,516770E+09	3,516774E+09	5,848881E+09	7,033544E+09	1,288242E+10
1508	2,924563E+09	2,924604E+09	3,516766E+09	3,516758E+09	5,849167E+09	7,033523E+09	1,288269E+10

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							
1509	2,924519E+09	2,924522E+09	3,516757E+09	3,516749E+09	5,849041E+09	7,033507E+09	1,288255E+10
1510	2,924533E+09	2,924547E+09	3,516776E+09	3,516777E+09	5,849081E+09	7,033553E+09	1,288263E+10
1511	2,924690E+09	2,924631E+09	3,516759E+09	3,516747E+09	5,849321E+09	7,033506E+09	1,288283E+10
1512	2,924566E+09	2,924548E+09	3,516753E+09	3,516767E+09	5,849114E+09	7,033520E+09	1,288263E+10
1513	2,924611E+09	2,924676E+09	3,516738E+09	3,516768E+09	5,849287E+09	7,033506E+09	1,288279E+10
1514	2,924661E+09	2,924664E+09	3,516742E+09	3,516726E+09	5,849324E+09	7,033468E+09	1,288279E+10
1515	2,924528E+09	2,924548E+09	3,516781E+09	3,516762E+09	5,849077E+09	7,033543E+09	1,288262E+10
1516	2,924628E+09	2,924641E+09	3,516787E+09	3,516730E+09	5,849269E+09	7,033517E+09	1,288279E+10
1517	2,924569E+09	2,924537E+09	3,516767E+09	3,516723E+09	5,849106E+09	7,033490E+09	1,288260E+10
1518	2,924481E+09	2,924494E+09	3,516748E+09	3,516773E+09	5,848975E+09	7,033521E+09	1,288250E+10
1519	2,924595E+09	2,924590E+09	3,516720E+09	3,516754E+09	5,849185E+09	7,033474E+09	1,288266E+10
1520	2,924464E+09	2,924462E+09	3,516724E+09	3,516746E+09	5,848926E+09	7,033470E+09	1,288240E+10
1521	2,924473E+09	2,924524E+09	3,516726E+09	3,516728E+09	5,848998E+09	7,033454E+09	1,288245E+10
1522	2,924584E+09	2,924549E+09	3,516741E+09	3,516686E+09	5,849132E+09	7,033426E+09	1,288256E+10
1523	2,924457E+09	2,924429E+09	3,516756E+09	3,516738E+09	5,848885E+09	7,033494E+09	1,288238E+10
1524	2,924538E+09	2,924577E+09	3,516755E+09	3,516731E+09	5,849116E+09	7,033487E+09	1,288260E+10
1525	2,924546E+09	2,924568E+09	3,516745E+09	3,516728E+09	5,849114E+09	7,033473E+09	1,288259E+10
1526	2,924471E+09	2,924515E+09	3,516745E+09	3,516775E+09	5,848986E+09	7,033521E+09	1,288251E+10
1527	2,924649E+09	2,924657E+09	3,516756E+09	3,516753E+09	5,849306E+09	7,033510E+09	1,288282E+10
1528	2,924605E+09	2,924563E+09	3,516766E+09	3,516747E+09	5,849167E+09	7,033513E+09	1,288268E+10
1529	2,924604E+09	2,924621E+09	3,516745E+09	3,516759E+09	5,849226E+09	7,033504E+09	1,288273E+10
1530	2,924748E+09	2,924734E+09	3,516743E+09	3,516737E+09	5,849482E+09	7,033480E+09	1,288296E+10
1531	2,924616E+09	2,924614E+09	3,516746E+09	3,516773E+09	5,849231E+09	7,033519E+09	1,288275E+10
1532	2,924658E+09	2,924727E+09	3,516770E+09	3,516742E+09	5,849385E+09	7,033512E+09	1,288290E+10
1533	2,924701E+09	2,924712E+09	3,516781E+09	3,516713E+09	5,849413E+09	7,033494E+09	1,288291E+10
1534	2,924578E+09	2,924564E+09	3,516771E+09	3,516763E+09	5,849141E+09	7,033534E+09	1,288267E+10
1535	2,924684E+09	2,924676E+09	3,516767E+09	3,516753E+09	5,849361E+09	7,033520E+09	1,288288E+10
1536	2,924610E+09	2,924576E+09	3,516750E+09	3,516752E+09	5,849186E+09	7,033502E+09	1,288269E+10
1537	2,924518E+09	2,924562E+09	3,516702E+09	3,516763E+09	5,849080E+09	7,033464E+09	1,288254E+10
1538	2,924653E+09	2,924659E+09	3,516713E+09	3,516721E+09	5,849312E+09	7,033434E+09	1,288275E+10
1539	2,924537E+09	2,924492E+09	3,516732E+09	3,516724E+09	5,849029E+09	7,033457E+09	1,288249E+10
1540	2,924544E+09	2,924569E+09	3,516750E+09	3,516692E+09	5,849113E+09	7,033442E+09	1,288256E+10
1541	2,924626E+09	2,924622E+09	3,516755E+09	3,516685E+09	5,849248E+09	7,033440E+09	1,288269E+10
1542	2,924491E+09	2,924495E+09	3,516730E+09	3,516759E+09	5,848986E+09	7,033489E+09	1,288247E+10
1543	2,924586E+09	2,924652E+09	3,516744E+09	3,516758E+09	5,849238E+09	7,033502E+09	1,288274E+10
1544	2,924600E+09	2,924613E+09	3,516768E+09	3,516749E+09	5,849213E+09	7,033516E+09	1,288273E+10
1545	2,924545E+09	2,924575E+09	3,516735E+09	3,516760E+09	5,849120E+09	7,033495E+09	1,288262E+10
1546	2,924741E+09	2,924720E+09	3,516752E+09	3,516736E+09	5,849462E+09	7,033488E+09	1,288295E+10
1547	2,924687E+09	2,924614E+09	3,516753E+09	3,516755E+09	5,849301E+09	7,033508E+09	1,288281E+10
1548	2,924669E+09	2,924702E+09	3,516736E+09	3,516742E+09	5,849371E+09	7,033478E+09	1,288285E+10
1549	2,924782E+09	2,924821E+09	3,516750E+09	3,516726E+09	5,849603E+09	7,033476E+09	1,288308E+10
1550	2,924660E+09	2,924659E+09	3,516745E+09	3,516760E+09	5,849319E+09	7,033504E+09	1,288282E+10
1551	2,924719E+09	2,924762E+09	3,516780E+09	3,516736E+09	5,849481E+09	7,033516E+09	1,288300E+10
1552	2,924752E+09	2,924730E+09	3,516798E+09	3,516728E+09	5,849482E+09	7,033526E+09	1,288301E+10
1553	2,924621E+09	2,924616E+09	3,516731E+09	3,516764E+09	5,849237E+09	7,033495E+09	1,288273E+10
1554	2,924730E+09	2,924748E+09	3,516735E+09	3,516756E+09	5,849479E+09	7,033490E+09	1,288297E+10
1555	2,924660E+09	2,924625E+09	3,516733E+09	3,516757E+09	5,849285E+09	7,033490E+09	1,288278E+10
1556	2,924577E+09	2,924614E+09	3,516716E+09	3,516724E+09	5,849191E+09	7,033441E+09	1,288263E+10
1557	2,924702E+09	2,924718E+09	3,516744E+09	3,516694E+09	5,849420E+09	7,033438E+09	1,288286E+10

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							
1558	2,924591E+09	2,924530E+09	3,516731E+09	3,516721E+09	5,849121E+09	7,033451E+09	1,288257E+10
1559	2,924592E+09	2,924626E+09	3,516749E+09	3,516716E+09	5,849218E+09	7,033465E+09	1,288268E+10
1560	2,924657E+09	2,924681E+09	3,516758E+09	3,516727E+09	5,849338E+09	7,033486E+09	1,288282E+10
1561	2,924531E+09	2,924563E+09	3,516699E+09	3,516763E+09	5,849094E+09	7,033461E+09	1,288256E+10
1562	2,924662E+09	2,924710E+09	3,516742E+09	3,516744E+09	5,849372E+09	7,033486E+09	1,288286E+10
1563	2,924697E+09	2,924643E+09	3,516763E+09	3,516737E+09	5,849340E+09	7,033499E+09	1,288284E+10
1564	2,924640E+09	2,924627E+09	3,516731E+09	3,516724E+09	5,849267E+09	7,033455E+09	1,288272E+10
1565	2,924802E+09	2,924811E+09	3,516748E+09	3,516721E+09	5,849613E+09	7,033469E+09	1,288308E+10
1566	2,924733E+09	2,924696E+09	3,516724E+09	3,516752E+09	5,849430E+09	7,033476E+09	1,288291E+10
1567	2,924714E+09	2,924783E+09	3,516744E+09	3,516742E+09	5,849496E+09	7,033486E+09	1,288298E+10
1568	2,924821E+09	2,924868E+09	3,516789E+09	3,516736E+09	5,849689E+09	7,033525E+09	1,288321E+10
1569	2,924707E+09	2,924704E+09	3,516746E+09	3,516754E+09	5,849411E+09	7,033500E+09	1,288291E+10
1570	2,924782E+09	2,924801E+09	3,516781E+09	3,516745E+09	5,849583E+09	7,033526E+09	1,288311E+10
1571	2,924810E+09	2,924758E+09	3,516776E+09	3,516761E+09	5,849568E+09	7,033536E+09	1,288310E+10
1572	2,924675E+09	2,924677E+09	3,516702E+09	3,516758E+09	5,849351E+09	7,033460E+09	1,288281E+10
1573	2,924772E+09	2,924819E+09	3,516725E+09	3,516736E+09	5,849591E+09	7,033461E+09	1,288305E+10
1574	2,924715E+09	2,924667E+09	3,516721E+09	3,516725E+09	5,849382E+09	7,033446E+09	1,288283E+10
1575	2,924645E+09	2,924660E+09	3,516731E+09	3,516697E+09	5,849304E+09	7,033428E+09	1,288273E+10
1576	2,924745E+09	2,924757E+09	3,516769E+09	3,516701E+09	5,849501E+09	7,033470E+09	1,288297E+10
1577	2,924622E+09	2,924601E+09	3,516710E+09	3,516729E+09	5,849223E+09	7,033439E+09	1,288266E+10
1578	2,924633E+09	2,924698E+09	3,516736E+09	3,516733E+09	5,849331E+09	7,033468E+09	1,288280E+10
1579	2,924706E+09	2,924721E+09	3,516758E+09	3,516749E+09	5,849427E+09	7,033507E+09	1,288293E+10
1580	2,924608E+09	2,924614E+09	3,516707E+09	3,516737E+09	5,849221E+09	7,033444E+09	1,288267E+10
1581	2,924739E+09	2,924765E+09	3,516754E+09	3,516722E+09	5,849505E+09	7,033476E+09	1,288298E+10
1582	2,924778E+09	2,924694E+09	3,516742E+09	3,516730E+09	5,849471E+09	7,033472E+09	1,288294E+10
1583	2,924711E+09	2,924708E+09	3,516716E+09	3,516728E+09	5,849419E+09	7,033444E+09	1,288286E+10
1584	2,924837E+09	2,924893E+09	3,516751E+09	3,516741E+09	5,849730E+09	7,033493E+09	1,288322E+10
1585	2,924769E+09	2,924779E+09	3,516712E+09	3,516742E+09	5,849549E+09	7,033454E+09	1,288300E+10
1586	2,924775E+09	2,924837E+09	3,516762E+09	3,516731E+09	5,849612E+09	7,033493E+09	1,288310E+10
1587	2,924889E+09	2,924888E+09	3,516802E+09	3,516745E+09	5,849776E+09	7,033547E+09	1,288332E+10
1588	2,924781E+09	2,924743E+09	3,516739E+09	3,516744E+09	5,849524E+09	7,033483E+09	1,288301E+10
1589	2,924830E+09	2,924866E+09	3,516766E+09	3,516749E+09	5,849696E+09	7,033515E+09	1,288321E+10
1590	2,924855E+09	2,924816E+09	3,516734E+09	3,516763E+09	5,849671E+09	7,033497E+09	1,288317E+10
1591	2,924726E+09	2,924737E+09	3,516700E+09	3,516743E+09	5,849464E+09	7,033443E+09	1,288291E+10
1592	2,924813E+09	2,924863E+09	3,516756E+09	3,516727E+09	5,849677E+09	7,033482E+09	1,288316E+10
1593	2,924760E+09	2,924715E+09	3,516719E+09	3,516700E+09	5,849475E+09	7,033419E+09	1,288289E+10
1594	2,924698E+09	2,924706E+09	3,516740E+09	3,516701E+09	5,849403E+09	7,033441E+09	1,288284E+10
1595	2,924782E+09	2,924797E+09	3,516760E+09	3,516734E+09	5,849579E+09	7,033494E+09	1,288307E+10
1596	2,924665E+09	2,924660E+09	3,516693E+09	3,516733E+09	5,849325E+09	7,033425E+09	1,288275E+10
1597	2,924681E+09	2,924756E+09	3,516739E+09	3,516726E+09	5,849437E+09	7,033464E+09	1,288290E+10
1598	2,924783E+09	2,924752E+09	3,516740E+09	3,516731E+09	5,849535E+09	7,033472E+09	1,288301E+10
1599	2,924701E+09	2,924664E+09	3,516704E+09	3,516713E+09	5,849366E+09	7,033417E+09	1,288278E+10
1600	2,924806E+09	2,924830E+09	3,516754E+09	3,516724E+09	5,849635E+09	7,033478E+09	1,288311E+10
1601	2,924823E+09	2,924794E+09	3,516708E+09	3,516721E+09	5,849617E+09	7,033429E+09	1,288305E+10
1602	2,924761E+09	2,924805E+09	3,516715E+09	3,516732E+09	5,849566E+09	7,033447E+09	1,288301E+10
1603	2,924881E+09	2,924949E+09	3,516775E+09	3,516755E+09	5,849830E+09	7,033530E+09	1,288336E+10
1604	2,924835E+09	2,924831E+09	3,516742E+09	3,516726E+09	5,849666E+09	7,033468E+09	1,288313E+10
1605	2,924839E+09	2,924879E+09	3,516788E+09	3,516729E+09	5,849719E+09	7,033517E+09	1,288324E+10
1606	2,924955E+09	2,924915E+09	3,516781E+09	3,516762E+09	5,849870E+09	7,033544E+09	1,288341E+10

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	2,924846E+09	2,924803E+09	3,516714E+09	3,516756E+09	5,849648E+09	7,033470E+09	1,288312E+10
1608	2,924867E+09	2,924924E+09	3,516748E+09	3,516763E+09	5,849791E+09	7,033511E+09	1,288330E+10
1609	2,924895E+09	2,924882E+09	3,516708E+09	3,516732E+09	5,849777E+09	7,033440E+09	1,288322E+10
1610	2,924793E+09	2,924784E+09	3,516706E+09	3,516708E+09	5,849577E+09	7,033414E+09	1,288299E+10
1611	2,924864E+09	2,924885E+09	3,516771E+09	3,516717E+09	5,849749E+09	7,033487E+09	1,288324E+10
1612	2,924811E+09	2,924768E+09	3,516722E+09	3,516685E+09	5,849579E+09	7,033407E+09	1,288299E+10
1613	2,924726E+09	2,924771E+09	3,516739E+09	3,516710E+09	5,849497E+09	7,033449E+09	1,288295E+10
1614	2,924816E+09	2,924845E+09	3,516738E+09	3,516752E+09	5,849660E+09	7,033490E+09	1,288315E+10
1615	2,924725E+09	2,924712E+09	3,516697E+09	3,516729E+09	5,849437E+09	7,033426E+09	1,288286E+10
1616	2,924740E+09	2,924796E+09	3,516754E+09	3,516730E+09	5,849535E+09	7,033484E+09	1,288302E+10
1617	2,924851E+09	2,924810E+09	3,516721E+09	3,516713E+09	5,849661E+09	7,033435E+09	1,288310E+10
1618	2,924781E+09	2,924735E+09	3,516694E+09	3,516714E+09	5,849515E+09	7,033408E+09	1,288292E+10
1619	2,924857E+09	2,924902E+09	3,516745E+09	3,516744E+09	5,849758E+09	7,033489E+09	1,288325E+10
1620	2,924879E+09	2,924883E+09	3,516704E+09	3,516709E+09	5,849762E+09	7,033413E+09	1,288318E+10
1621	2,924814E+09	2,924875E+09	3,516744E+09	3,516717E+09	5,849689E+09	7,033462E+09	1,288315E+10
1622	2,924951E+09	2,924980E+09	3,516782E+09	3,516748E+09	5,849931E+09	7,033529E+09	1,288346E+10
1623	2,924919E+09	2,924868E+09	3,516752E+09	3,516723E+09	5,849787E+09	7,033475E+09	1,288326E+10
1624	2,924896E+09	2,924926E+09	3,516782E+09	3,516754E+09	5,849822E+09	7,033537E+09	1,288336E+10
1625	2,924997E+09	2,924988E+09	3,516729E+09	3,516760E+09	5,849985E+09	7,033489E+09	1,288347E+10
1626	2,924900E+09	2,924876E+09	3,516691E+09	3,516750E+09	5,849776E+09	7,033441E+09	1,288322E+10
1627	2,924913E+09	2,924971E+09	3,516753E+09	3,516751E+09	5,849884E+09	7,033504E+09	1,288339E+10
1628	2,924955E+09	2,924932E+09	3,516722E+09	3,516691E+09	5,849886E+09	7,033413E+09	1,288330E+10
1629	2,924842E+09	2,924830E+09	3,516737E+09	3,516692E+09	5,849672E+09	7,033430E+09	1,288310E+10
1630	2,924903E+09	2,924917E+09	3,516759E+09	3,516733E+09	5,849820E+09	7,033492E+09	1,288331E+10
1631	2,924851E+09	2,924824E+09	3,516713E+09	3,516706E+09	5,849675E+09	7,033419E+09	1,288309E+10
1632	2,924752E+09	2,924822E+09	3,516733E+09	3,516738E+09	5,849574E+09	7,033471E+09	1,288304E+10
1633	2,924861E+09	2,924891E+09	3,516714E+09	3,516734E+09	5,849753E+09	7,033447E+09	1,288320E+10
1634	2,924812E+09	2,924758E+09	3,516692E+09	3,516708E+09	5,849569E+09	7,033400E+09	1,288297E+10
1635	2,924818E+09	2,924836E+09	3,516749E+09	3,516724E+09	5,849653E+09	7,033473E+09	1,288313E+10
1636	2,924925E+09	2,924892E+09	3,516708E+09	3,516691E+09	5,849817E+09	7,033399E+09	1,288322E+10
1637	2,924832E+09	2,924832E+09	3,516701E+09	3,516706E+09	5,849663E+09	7,033407E+09	1,288307E+10
1638	2,924900E+09	2,924970E+09	3,516746E+09	3,516749E+09	5,849870E+09	7,033495E+09	1,288337E+10
1639	2,924944E+09	2,924946E+09	3,516740E+09	3,516704E+09	5,849891E+09	7,033443E+09	1,288333E+10
1640	2,924871E+09	2,924913E+09	3,516775E+09	3,516735E+09	5,849784E+09	7,033509E+09	1,288329E+10
1641	2,925011E+09	2,925023E+09	3,516767E+09	3,516750E+09	5,850034E+09	7,033517E+09	1,288355E+10
1642	2,924996E+09	2,924926E+09	3,516723E+09	3,516741E+09	5,849922E+09	7,033464E+09	1,288339E+10
1643	2,924945E+09	2,924982E+09	3,516746E+09	3,516778E+09	5,849927E+09	7,033524E+09	1,288345E+10
1644	2,925055E+09	2,925064E+09	3,516704E+09	3,516733E+09	5,850119E+09	7,033437E+09	1,288356E+10
1645	2,924957E+09	2,924937E+09	3,516706E+09	3,516706E+09	5,849894E+09	7,033412E+09	1,288331E+10
1646	2,924971E+09	2,925000E+09	3,516758E+09	3,516720E+09	5,849971E+09	7,033478E+09	1,288345E+10
1647	2,925017E+09	2,924975E+09	3,516740E+09	3,516673E+09	5,849992E+09	7,033412E+09	1,288340E+10
1648	2,924866E+09	2,924879E+09	3,516743E+09	3,516719E+09	5,849744E+09	7,033462E+09	1,288321E+10
1649	2,924916E+09	2,924978E+09	3,516728E+09	3,516744E+09	5,849894E+09	7,033472E+09	1,288337E+10
1650	2,924896E+09	2,924878E+09	3,516703E+09	3,516720E+09	5,849774E+09	7,033423E+09	1,288320E+10
1651	2,924804E+09	2,924852E+09	3,516737E+09	3,516746E+09	5,849656E+09	7,033482E+09	1,288314E+10
1652	2,924943E+09	2,924937E+09	3,516713E+09	3,516703E+09	5,849880E+09	7,033416E+09	1,288330E+10
1653	2,924890E+09	2,924817E+09	3,516705E+09	3,516686E+09	5,849707E+09	7,033391E+09	1,288310E+10
1654	2,924882E+09	2,924897E+09	3,516729E+09	3,516725E+09	5,849779E+09	7,033455E+09	1,288323E+10
1655	2,924984E+09	2,924977E+09	3,516706E+09	3,516692E+09	5,849961E+09	7,033398E+09	1,288336E+10

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							
1656	2,924869E+09	2,924907E+09	3,516718E+09	3,516724E+09	5,849775E+09	7,033442E+09	1,288322E+10
1657	2,924947E+09	2,925025E+09	3,516742E+09	3,516731E+09	5,849971E+09	7,033473E+09	1,288344E+10
1658	2,925025E+09	2,924990E+09	3,516743E+09	3,516703E+09	5,850015E+09	7,033447E+09	1,288346E+10
1659	2,924943E+09	2,924951E+09	3,516764E+09	3,516752E+09	5,849894E+09	7,033517E+09	1,288341E+10
1660	2,925082E+09	2,925094E+09	3,516733E+09	3,516742E+09	5,850176E+09	7,033475E+09	1,288365E+10
1661	2,925052E+09	2,925014E+09	3,516711E+09	3,516729E+09	5,850067E+09	7,033440E+09	1,288351E+10
1662	2,924998E+09	2,925043E+09	3,516728E+09	3,516763E+09	5,850042E+09	7,033491E+09	1,288353E+10
1663	2,925119E+09	2,925121E+09	3,516730E+09	3,516701E+09	5,850240E+09	7,033431E+09	1,288367E+10
1664	2,925000E+09	2,924981E+09	3,516740E+09	3,516705E+09	5,849981E+09	7,033445E+09	1,288343E+10
1665	2,925001E+09	2,925038E+09	3,516755E+09	3,516715E+09	5,850040E+09	7,033470E+09	1,288351E+10
1666	2,925059E+09	2,925026E+09	3,516728E+09	3,516702E+09	5,850085E+09	7,033430E+09	1,288352E+10
1667	2,924893E+09	2,924921E+09	3,516723E+09	3,516758E+09	5,849813E+09	7,033481E+09	1,288329E+10
1668	2,924966E+09	2,925026E+09	3,516710E+09	3,516732E+09	5,849993E+09	7,033443E+09	1,288344E+10
1669	2,924966E+09	2,924921E+09	3,516712E+09	3,516688E+09	5,849888E+09	7,033401E+09	1,288329E+10
1670	2,924884E+09	2,924880E+09	3,516722E+09	3,516723E+09	5,849764E+09	7,033445E+09	1,288321E+10
1671	2,925028E+09	2,924996E+09	3,516714E+09	3,516681E+09	5,850025E+09	7,033396E+09	1,288342E+10
1672	2,924933E+09	2,924898E+09	3,516700E+09	3,516697E+09	5,849831E+09	7,033397E+09	1,288323E+10
1673	2,924906E+09	2,924983E+09	3,516710E+09	3,516719E+09	5,849889E+09	7,033428E+09	1,288332E+10
1674	2,925035E+09	2,925055E+09	3,516712E+09	3,516699E+09	5,850090E+09	7,033411E+09	1,288350E+10
1675	2,924919E+09	2,924947E+09	3,516739E+09	3,516740E+09	5,849866E+09	7,033479E+09	1,288335E+10
1676	2,925023E+09	2,925071E+09	3,516750E+09	3,516722E+09	5,850094E+09	7,033472E+09	1,288357E+10
1677	2,925105E+09	2,925045E+09	3,516749E+09	3,516704E+09	5,850149E+09	7,033452E+09	1,288360E+10
1678	2,925013E+09	2,925007E+09	3,516725E+09	3,516768E+09	5,850020E+09	7,033493E+09	1,288351E+10
1679	2,925153E+09	2,925171E+09	3,516714E+09	3,516734E+09	5,850324E+09	7,033448E+09	1,288377E+10
1680	2,925098E+09	2,925085E+09	3,516715E+09	3,516719E+09	5,850184E+09	7,033434E+09	1,288362E+10
1681	2,925045E+09	2,925094E+09	3,516727E+09	3,516719E+09	5,850139E+09	7,033446E+09	1,288359E+10
1682	2,925185E+09	2,925166E+09	3,516739E+09	3,516689E+09	5,850351E+09	7,033428E+09	1,288378E+10
1683	2,925039E+09	2,925017E+09	3,516746E+09	3,516727E+09	5,850056E+09	7,033473E+09	1,288353E+10
1684	2,925038E+09	2,925096E+09	3,516737E+09	3,516721E+09	5,850134E+09	7,033458E+09	1,288359E+10
1685	2,925092E+09	2,925088E+09	3,516729E+09	3,516708E+09	5,850179E+09	7,033437E+09	1,288362E+10
1686	2,924942E+09	2,924957E+09	3,516707E+09	3,516760E+09	5,849899E+09	7,033467E+09	1,288337E+10
1687	2,925043E+09	2,925060E+09	3,516721E+09	3,516709E+09	5,850103E+09	7,033431E+09	1,288353E+10
1688	2,925027E+09	2,924968E+09	3,516723E+09	3,516686E+09	5,849995E+09	7,033409E+09	1,288340E+10
1689	2,924936E+09	2,924936E+09	3,516695E+09	3,516704E+09	5,849872E+09	7,033399E+09	1,288327E+10
1690	2,925079E+09	2,925076E+09	3,516691E+09	3,516695E+09	5,850155E+09	7,033385E+09	1,288354E+10
1691	2,924964E+09	2,924973E+09	3,516694E+09	3,516721E+09	5,849937E+09	7,033415E+09	1,288335E+10
1692	2,924956E+09	2,925048E+09	3,516713E+09	3,516700E+09	5,850004E+09	7,033414E+09	1,288342E+10
1693	2,925103E+09	2,925106E+09	3,516744E+09	3,516677E+09	5,850209E+09	7,033421E+09	1,288363E+10
1694	2,925003E+09	2,924980E+09	3,516731E+09	3,516738E+09	5,849983E+09	7,033469E+09	1,288345E+10
1695	2,925113E+09	2,925123E+09	3,516746E+09	3,516719E+09	5,850236E+09	7,033465E+09	1,288370E+10
1696	2,925157E+09	2,925127E+09	3,516732E+09	3,516722E+09	5,850284E+09	7,033454E+09	1,288374E+10
1697	2,925055E+09	2,925088E+09	3,516692E+09	3,516752E+09	5,850144E+09	7,033444E+09	1,288359E+10
1698	2,925214E+09	2,925245E+09	3,516715E+09	3,516725E+09	5,850459E+09	7,033440E+09	1,288390E+10
1699	2,925149E+09	2,925133E+09	3,516739E+09	3,516718E+09	5,850283E+09	7,033457E+09	1,288374E+10
1700	2,925103E+09	2,925140E+09	3,516744E+09	3,516701E+09	5,850243E+09	7,033445E+09	1,288369E+10
1701	2,925234E+09	2,925216E+09	3,516757E+09	3,516694E+09	5,850450E+09	7,033451E+09	1,288390E+10
1702	2,925079E+09	2,925057E+09	3,516718E+09	3,516760E+09	5,850136E+09	7,033478E+09	1,288361E+10
1703	2,925089E+09	2,925143E+09	3,516728E+09	3,516730E+09	5,850233E+09	7,033457E+09	1,288369E+10
1704	2,925134E+09	2,925129E+09	3,516725E+09	3,516707E+09	5,850263E+09	7,033432E+09	1,288370E+10

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							
1705	2,924997E+09	2,924988E+09	3,516684E+09	3,516720E+09	5,849985E+09	7,033403E+09	1,288339E+10
1706	2,925121E+09	2,925109E+09	3,516702E+09	3,516693E+09	5,850229E+09	7,033395E+09	1,288362E+10
1707	2,925074E+09	2,925026E+09	3,516710E+09	3,516691E+09	5,850100E+09	7,033402E+09	1,288350E+10
1708	2,924976E+09	2,925021E+09	3,516682E+09	3,516691E+09	5,849996E+09	7,033373E+09	1,288337E+10
1709	2,925115E+09	2,925157E+09	3,516710E+09	3,516685E+09	5,850272E+09	7,033395E+09	1,288367E+10
1710	2,925015E+09	2,925019E+09	3,516707E+09	3,516726E+09	5,850034E+09	7,033433E+09	1,288347E+10
1711	2,925035E+09	2,925084E+09	3,516746E+09	3,516693E+09	5,850119E+09	7,033439E+09	1,288356E+10
1712	2,925167E+09	2,925149E+09	3,516761E+09	3,516695E+09	5,850316E+09	7,033456E+09	1,288377E+10
1713	2,925067E+09	2,925034E+09	3,516698E+09	3,516740E+09	5,850101E+09	7,033438E+09	1,288354E+10
1714	2,925186E+09	2,925204E+09	3,516704E+09	3,516741E+09	5,850389E+09	7,033445E+09	1,288383E+10
1715	2,925208E+09	2,925205E+09	3,516714E+09	3,516735E+09	5,850413E+09	7,033450E+09	1,288386E+10
1716	2,925122E+09	2,925160E+09	3,516692E+09	3,516713E+09	5,850282E+09	7,033405E+09	1,288369E+10
1717	2,925282E+09	2,925301E+09	3,516748E+09	3,516688E+09	5,850583E+09	7,033436E+09	1,288402E+10
1718	2,925216E+09	2,925173E+09	3,516742E+09	3,516717E+09	5,850389E+09	7,033459E+09	1,288385E+10
1719	2,925163E+09	2,925185E+09	3,516750E+09	3,516705E+09	5,850348E+09	7,033455E+09	1,288380E+10
1720	2,925253E+09	2,925281E+09	3,516751E+09	3,516723E+09	5,850534E+09	7,033474E+09	1,288401E+10
1721	2,925106E+09	2,925108E+09	3,516686E+09	3,516753E+09	5,850214E+09	7,033439E+09	1,288365E+10
1722	2,925145E+09	2,925183E+09	3,516713E+09	3,516729E+09	5,850328E+09	7,033442E+09	1,288377E+10
1723	2,925187E+09	2,925161E+09	3,516730E+09	3,516706E+09	5,850348E+09	7,033436E+09	1,288378E+10
1724	2,925064E+09	2,925033E+09	3,516677E+09	3,516689E+09	5,850097E+09	7,033366E+09	1,288346E+10
1725	2,925173E+09	2,925173E+09	3,516709E+09	3,516677E+09	5,850346E+09	7,033387E+09	1,288373E+10
1726	2,925116E+09	2,925093E+09	3,516690E+09	3,516704E+09	5,850209E+09	7,033394E+09	1,288360E+10
1727	2,925027E+09	2,925080E+09	3,516697E+09	3,516686E+09	5,850106E+09	7,033383E+09	1,288349E+10
1728	2,925153E+09	2,925209E+09	3,516738E+09	3,516687E+09	5,850362E+09	7,033425E+09	1,288379E+10
1729	2,925075E+09	2,925052E+09	3,516702E+09	3,516709E+09	5,850127E+09	7,033411E+09	1,288354E+10
1730	2,925121E+09	2,925130E+09	3,516729E+09	3,516709E+09	5,850251E+09	7,033438E+09	1,288369E+10
1731	2,925228E+09	2,925213E+09	3,516738E+09	3,516724E+09	5,850441E+09	7,033462E+09	1,288390E+10
1732	2,925129E+09	2,925127E+09	3,516667E+09	3,516730E+09	5,850256E+09	7,033397E+09	1,288365E+10
1733	2,925247E+09	2,925295E+09	3,516712E+09	3,516719E+09	5,850543E+09	7,033431E+09	1,288397E+10
1734	2,925275E+09	2,925266E+09	3,516723E+09	3,516723E+09	5,850540E+09	7,033445E+09	1,288399E+10
1735	2,925202E+09	2,925207E+09	3,516732E+09	3,516694E+09	5,850409E+09	7,033425E+09	1,288383E+10
1736	2,925326E+09	2,925351E+09	3,516773E+09	3,516698E+09	5,850676E+09	7,033471E+09	1,288415E+10
1737	2,925250E+09	2,925216E+09	3,516720E+09	3,516727E+09	5,850467E+09	7,033447E+09	1,288391E+10
1738	2,925208E+09	2,925243E+09	3,516714E+09	3,516739E+09	5,850451E+09	7,033453E+09	1,288390E+10
1739	2,925285E+09	2,925321E+09	3,516733E+09	3,516742E+09	5,850607E+09	7,033475E+09	1,288408E+10
1740	2,925167E+09	2,925147E+09	3,516674E+09	3,516713E+09	5,850314E+09	7,033387E+09	1,288370E+10
1741	2,925219E+09	2,925222E+09	3,516719E+09	3,516685E+09	5,850441E+09	7,033404E+09	1,288385E+10
1742	2,925255E+09	2,925201E+09	3,516714E+09	3,516691E+09	5,850456E+09	7,033405E+09	1,288386E+10
1743	2,925124E+09	2,925095E+09	3,516681E+09	3,516675E+09	5,850220E+09	7,033356E+09	1,288358E+10
1744	2,925187E+09	2,925254E+09	3,516719E+09	3,516687E+09	5,850440E+09	7,033406E+09	1,288385E+10
1745	2,925141E+09	2,925152E+09	3,516689E+09	3,516698E+09	5,850293E+09	7,033387E+09	1,288368E+10
1746	2,925085E+09	2,925126E+09	3,516706E+09	3,516701E+09	5,850211E+09	7,033407E+09	1,288362E+10
1747	2,925207E+09	2,925242E+09	3,516754E+09	3,516713E+09	5,850449E+09	7,033467E+09	1,288392E+10
1748	2,925153E+09	2,925103E+09	3,516689E+09	3,516706E+09	5,850256E+09	7,033395E+09	1,288365E+10
1749	2,925195E+09	2,925203E+09	3,516713E+09	3,516714E+09	5,850398E+09	7,033427E+09	1,288383E+10
1750	2,925298E+09	2,925294E+09	3,516702E+09	3,516737E+09	5,850592E+09	7,033439E+09	1,288403E+10
1751	2,925211E+09	2,925200E+09	3,516673E+09	3,516701E+09	5,850411E+09	7,033374E+09	1,288378E+10
1752	2,925300E+09	2,925362E+09	3,516742E+09	3,516691E+09	5,850663E+09	7,033433E+09	1,288410E+10
1753	2,925337E+09	2,925313E+09	3,516726E+09	3,516688E+09	5,850650E+09	7,033414E+09	1,288406E+10

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							
1754	2,925266E+09	2,925257E+09	3,516725E+09	3,516708E+09	5,850524E+09	7,033433E+09	1,288396E+10
1755	2,925353E+09	2,925405E+09	3,516766E+09	3,516735E+09	5,850758E+09	7,033501E+09	1,288426E+10
1756	2,925288E+09	2,925281E+09	3,516696E+09	3,516728E+09	5,850569E+09	7,033423E+09	1,288399E+10
1757	2,925258E+09	2,925296E+09	3,516716E+09	3,516727E+09	5,850554E+09	7,033443E+09	1,288400E+10
1758	2,925350E+09	2,925353E+09	3,516726E+09	3,516732E+09	5,850702E+09	7,033458E+09	1,288416E+10
1759	2,925249E+09	2,925179E+09	3,516691E+09	3,516681E+09	5,850428E+09	7,033372E+09	1,288380E+10
1760	2,925262E+09	2,925276E+09	3,516731E+09	3,516676E+09	5,850538E+09	7,033407E+09	1,288395E+10
1761	2,925288E+09	2,925261E+09	3,516688E+09	3,516687E+09	5,850549E+09	7,033375E+09	1,288392E+10
1762	2,925161E+09	2,925167E+09	3,516661E+09	3,516703E+09	5,850329E+09	7,033364E+09	1,288369E+10
1763	2,925208E+09	2,925303E+09	3,516729E+09	3,516708E+09	5,850511E+09	7,033437E+09	1,288395E+10
1764	2,925197E+09	2,925192E+09	3,516697E+09	3,516676E+09	5,850389E+09	7,033374E+09	1,288376E+10
1765	2,925165E+09	2,925167E+09	3,516715E+09	3,516687E+09	5,850331E+09	7,033403E+09	1,288373E+10
1766	2,925289E+09	2,925283E+09	3,516728E+09	3,516723E+09	5,850572E+09	7,033451E+09	1,288402E+10
1767	2,925237E+09	2,925177E+09	3,516676E+09	3,516697E+09	5,850414E+09	7,033373E+09	1,288379E+10
1768	2,925243E+09	2,925299E+09	3,516704E+09	3,516705E+09	5,850542E+09	7,033409E+09	1,288395E+10
1769	2,925350E+09	2,925365E+09	3,516694E+09	3,516707E+09	5,850715E+09	7,033400E+09	1,288412E+10
1770	2,925283E+09	2,925266E+09	3,516688E+09	3,516696E+09	5,850549E+09	7,033383E+09	1,288393E+10
1771	2,925348E+09	2,925406E+09	3,516770E+09	3,516703E+09	5,850754E+09	7,033473E+09	1,288423E+10
1772	2,925393E+09	2,925365E+09	3,516729E+09	3,516689E+09	5,850758E+09	7,033418E+09	1,288418E+10
1773	2,925319E+09	2,925320E+09	3,516714E+09	3,516726E+09	5,850639E+09	7,033440E+09	1,288408E+10
1774	2,925401E+09	2,925456E+09	3,516733E+09	3,516761E+09	5,850857E+09	7,033494E+09	1,288435E+10
1775	2,925362E+09	2,925324E+09	3,516695E+09	3,516706E+09	5,850686E+09	7,033401E+09	1,288409E+10
1776	2,925314E+09	2,925340E+09	3,516723E+09	3,516697E+09	5,850654E+09	7,033420E+09	1,288407E+10
1777	2,925413E+09	2,925388E+09	3,516708E+09	3,516695E+09	5,850802E+09	7,033403E+09	1,288420E+10
1778	2,925311E+09	2,925240E+09	3,516672E+09	3,516683E+09	5,850551E+09	7,033354E+09	1,288391E+10
1779	2,925277E+09	2,925345E+09	3,516729E+09	3,516697E+09	5,850622E+09	7,033425E+09	1,288405E+10
1780	2,925312E+09	2,925335E+09	3,516684E+09	3,516679E+09	5,850647E+09	7,033363E+09	1,288401E+10
1781	2,925203E+09	2,925220E+09	3,516684E+09	3,516700E+09	5,850423E+09	7,033384E+09	1,288381E+10
1782	2,925267E+09	2,925329E+09	3,516740E+09	3,516719E+09	5,850597E+09	7,033460E+09	1,288406E+10
1783	2,925287E+09	2,925219E+09	3,516711E+09	3,516666E+09	5,850506E+09	7,033377E+09	1,288388E+10
1784	2,925225E+09	2,925222E+09	3,516709E+09	3,516691E+09	5,850447E+09	7,033401E+09	1,288385E+10
1785	2,925350E+09	2,925353E+09	3,516682E+09	3,516718E+09	5,850703E+09	7,033401E+09	1,288410E+10
1786	2,925304E+09	2,925265E+09	3,516644E+09	3,516701E+09	5,850569E+09	7,033345E+09	1,288391E+10
1787	2,925288E+09	2,925368E+09	3,516718E+09	3,516697E+09	5,850656E+09	7,033415E+09	1,288407E+10
1788	2,925417E+09	2,925426E+09	3,516707E+09	3,516667E+09	5,850843E+09	7,033374E+09	1,288422E+10
1789	2,925356E+09	2,925323E+09	3,516707E+09	3,516685E+09	5,850679E+09	7,033392E+09	1,288407E+10
1790	2,925405E+09	2,925457E+09	3,516760E+09	3,516728E+09	5,850862E+09	7,033488E+09	1,288435E+10
1791	2,925454E+09	2,925428E+09	3,516724E+09	3,516699E+09	5,850883E+09	7,033424E+09	1,288431E+10
1792	2,925355E+09	2,925393E+09	3,516710E+09	3,516733E+09	5,850748E+09	7,033443E+09	1,288419E+10
1793	2,925456E+09	2,925497E+09	3,516715E+09	3,516743E+09	5,850954E+09	7,033458E+09	1,288441E+10
1794	2,925437E+09	2,925372E+09	3,516689E+09	3,516699E+09	5,850808E+09	7,033388E+09	1,288420E+10
1795	2,925362E+09	2,925380E+09	3,516731E+09	3,516697E+09	5,850743E+09	7,033428E+09	1,288417E+10
1796	2,925458E+09	2,925445E+09	3,516697E+09	3,516681E+09	5,850903E+09	7,033379E+09	1,288428E+10
1797	2,925350E+09	2,925314E+09	3,516665E+09	3,516692E+09	5,850664E+09	7,033356E+09	1,288402E+10
1798	2,925306E+09	2,925393E+09	3,516717E+09	3,516713E+09	5,850700E+09	7,033431E+09	1,288413E+10
1799	2,925370E+09	2,925368E+09	3,516708E+09	3,516659E+09	5,850739E+09	7,033367E+09	1,288411E+10
1800	2,925258E+09	2,925256E+09	3,516699E+09	3,516680E+09	5,850514E+09	7,033379E+09	1,288389E+10
1801	2,925337E+09	2,925351E+09	3,516715E+09	3,516703E+09	5,850688E+09	7,033418E+09	1,288411E+10
1802	2,925362E+09	2,925284E+09	3,516677E+09	3,516679E+09	5,850646E+09	7,033356E+09	1,288400E+10

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							
1803	2,925265E+09	2,925303E+09	3,516687E+09	3,516706E+09	5,850568E+09	7,033393E+09	1,288396E+10
1804	2,925399E+09	2,925441E+09	3,516669E+09	3,516694E+09	5,850839E+09	7,033364E+09	1,288420E+10
1805	2,925368E+09	2,925346E+09	3,516664E+09	3,516681E+09	5,850714E+09	7,033345E+09	1,288406E+10
1806	2,925352E+09	2,925418E+09	3,516740E+09	3,516698E+09	5,850770E+09	7,033437E+09	1,288421E+10
1807	2,925496E+09	2,925473E+09	3,516739E+09	3,516662E+09	5,850969E+09	7,033401E+09	1,288437E+10
1808	2,925405E+09	2,925388E+09	3,516715E+09	3,516705E+09	5,850793E+09	7,033420E+09	1,288421E+10
1809	2,925454E+09	2,925514E+09	3,516724E+09	3,516748E+09	5,850968E+09	7,033472E+09	1,288444E+10
1810	2,925519E+09	2,925496E+09	3,516695E+09	3,516718E+09	5,851014E+09	7,033413E+09	1,288443E+10
1811	2,925406E+09	2,925438E+09	3,516711E+09	3,516727E+09	5,850844E+09	7,033438E+09	1,288428E+10
1812	2,925528E+09	2,925540E+09	3,516709E+09	3,516697E+09	5,851068E+09	7,033406E+09	1,288447E+10
1813	2,925507E+09	2,925427E+09	3,516686E+09	3,516675E+09	5,850934E+09	7,033362E+09	1,288430E+10
1814	2,925406E+09	2,925437E+09	3,516720E+09	3,516704E+09	5,850843E+09	7,033424E+09	1,288427E+10
1815	2,925501E+09	2,925509E+09	3,516700E+09	3,516671E+09	5,851009E+09	7,033372E+09	1,288438E+10
1816	2,925366E+09	2,925376E+09	3,516683E+09	3,516689E+09	5,850743E+09	7,033372E+09	1,288411E+10
1817	2,925346E+09	2,925419E+09	3,516718E+09	3,516706E+09	5,850765E+09	7,033424E+09	1,288419E+10
1818	2,925436E+09	2,925398E+09	3,516709E+09	3,516670E+09	5,850834E+09	7,033378E+09	1,288421E+10
1819	2,925308E+09	2,925288E+09	3,516699E+09	3,516698E+09	5,850596E+09	7,033397E+09	1,288399E+10
1820	2,925397E+09	2,925409E+09	3,516681E+09	3,516699E+09	5,850805E+09	7,033379E+09	1,288418E+10
1821	2,925422E+09	2,925375E+09	3,516645E+09	3,516684E+09	5,850796E+09	7,033329E+09	1,288413E+10
1822	2,925319E+09	2,925377E+09	3,516674E+09	3,516705E+09	5,850696E+09	7,033379E+09	1,288408E+10
1823	2,925476E+09	2,925499E+09	3,516698E+09	3,516656E+09	5,850975E+09	7,033354E+09	1,288433E+10
1824	2,925431E+09	2,925409E+09	3,516699E+09	3,516657E+09	5,850840E+09	7,033356E+09	1,288420E+10
1825	2,925418E+09	2,925460E+09	3,516735E+09	3,516697E+09	5,850878E+09	7,033432E+09	1,288431E+10
1826	2,925558E+09	2,925544E+09	3,516724E+09	3,516694E+09	5,851102E+09	7,033418E+09	1,288452E+10
1827	2,925440E+09	2,925460E+09	3,516705E+09	3,516738E+09	5,850900E+09	7,033442E+09	1,288434E+10
1828	2,925507E+09	2,925573E+09	3,516709E+09	3,516737E+09	5,851080E+09	7,033446E+09	1,288453E+10
1829	2,925594E+09	2,925557E+09	3,516696E+09	3,516704E+09	5,851151E+09	7,033400E+09	1,288455E+10
1830	2,925479E+09	2,925475E+09	3,516710E+09	3,516716E+09	5,850954E+09	7,033426E+09	1,288438E+10
1831	2,925602E+09	2,925582E+09	3,516722E+09	3,516672E+09	5,851184E+09	7,033394E+09	1,288458E+10
1832	2,925543E+09	2,925500E+09	3,516688E+09	3,516669E+09	5,851042E+09	7,033357E+09	1,288440E+10
1833	2,925432E+09	2,925488E+09	3,516693E+09	3,516710E+09	5,850920E+09	7,033403E+09	1,288432E+10
1834	2,925535E+09	2,925562E+09	3,516696E+09	3,516683E+09	5,851097E+09	7,033379E+09	1,288448E+10
1835	2,925399E+09	2,925404E+09	3,516697E+09	3,516693E+09	5,850803E+09	7,033390E+09	1,288419E+10
1836	2,925405E+09	2,925440E+09	3,516710E+09	3,516684E+09	5,850845E+09	7,033394E+09	1,288424E+10
1837	2,925507E+09	2,925449E+09	3,516686E+09	3,516671E+09	5,850956E+09	7,033357E+09	1,288431E+10
1838	2,925363E+09	2,925352E+09	3,516667E+09	3,516710E+09	5,850715E+09	7,033377E+09	1,288409E+10
1839	2,925459E+09	2,925488E+09	3,516673E+09	3,516680E+09	5,850947E+09	7,033353E+09	1,288430E+10
1840	2,925466E+09	2,925463E+09	3,516665E+09	3,516660E+09	5,850929E+09	7,033325E+09	1,288425E+10
1841	2,925380E+09	2,925427E+09	3,516691E+09	3,516686E+09	5,850806E+09	7,033377E+09	1,288418E+10
1842	2,925546E+09	2,925553E+09	3,516722E+09	3,516662E+09	5,851099E+09	7,033384E+09	1,288448E+10
1843	2,925478E+09	2,925457E+09	3,516721E+09	3,516689E+09	5,850935E+09	7,033410E+09	1,288435E+10
1844	2,925472E+09	2,925519E+09	3,516714E+09	3,516716E+09	5,850991E+09	7,033430E+09	1,288442E+10
1845	2,925619E+09	2,925621E+09	3,516692E+09	3,516719E+09	5,851239E+09	7,033411E+09	1,288465E+10
1846	2,925506E+09	2,925515E+09	3,516687E+09	3,516742E+09	5,851021E+09	7,033429E+09	1,288445E+10
1847	2,925600E+09	2,925616E+09	3,516712E+09	3,516691E+09	5,851216E+09	7,033403E+09	1,288462E+10
1848	2,925662E+09	2,925615E+09	3,516705E+09	3,516662E+09	5,851277E+09	7,033366E+09	1,288464E+10
1849	2,925540E+09	2,925523E+09	3,516692E+09	3,516699E+09	5,851064E+09	7,033391E+09	1,288445E+10
1850	2,925641E+09	2,925655E+09	3,516710E+09	3,516681E+09	5,851296E+09	7,033391E+09	1,288469E+10
1851	2,925549E+09	2,925566E+09	3,516699E+09	3,516690E+09	5,851115E+09	7,033389E+09	1,288450E+10

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							
1852	2,925457E+09	2,925529E+09	3,516696E+09	3,516702E+09	5,850986E+09	7,033398E+09	1,288438E+10
1853	2,925584E+09	2,925600E+09	3,516702E+09	3,516689E+09	5,851184E+09	7,033391E+09	1,288457E+10
1854	2,925460E+09	2,925423E+09	3,516696E+09	3,516705E+09	5,850883E+09	7,033401E+09	1,288428E+10
1855	2,925483E+09	2,925471E+09	3,516702E+09	3,516675E+09	5,850954E+09	7,033377E+09	1,288433E+10
1856	2,925557E+09	2,925525E+09	3,516671E+09	3,516665E+09	5,851082E+09	7,033336E+09	1,288442E+10
1857	2,925418E+09	2,925419E+09	3,516634E+09	3,516703E+09	5,850836E+09	7,033337E+09	1,288417E+10
1858	2,925517E+09	2,925559E+09	3,516681E+09	3,516664E+09	5,851076E+09	7,033345E+09	1,288442E+10
1859	2,925516E+09	2,925516E+09	3,516700E+09	3,516647E+09	5,851032E+09	7,033348E+09	1,288438E+10
1860	2,925442E+09	2,925466E+09	3,516700E+09	3,516670E+09	5,850909E+09	7,033370E+09	1,288428E+10
1861	2,925610E+09	2,925621E+09	3,516712E+09	3,516686E+09	5,851231E+09	7,033399E+09	1,288463E+10
1862	2,925534E+09	2,925522E+09	3,516697E+09	3,516722E+09	5,851056E+09	7,033419E+09	1,288447E+10
1863	2,925542E+09	2,925584E+09	3,516702E+09	3,516712E+09	5,851126E+09	7,033414E+09	1,288454E+10
1864	2,925681E+09	2,925698E+09	3,516699E+09	3,516695E+09	5,851378E+09	7,033394E+09	1,288477E+10
1865	2,925585E+09	2,925559E+09	3,516678E+09	3,516716E+09	5,851144E+09	7,033394E+09	1,288454E+10
1866	2,925677E+09	2,925671E+09	3,516720E+09	3,516677E+09	5,851348E+09	7,033397E+09	1,288474E+10
1867	2,925703E+09	2,925675E+09	3,516716E+09	3,516670E+09	5,851378E+09	7,033386E+09	1,288476E+10
1868	2,925570E+09	2,925587E+09	3,516674E+09	3,516702E+09	5,851156E+09	7,033376E+09	1,288453E+10
1869	2,925668E+09	2,925727E+09	3,516693E+09	3,516702E+09	5,851396E+09	7,033395E+09	1,288479E+10
1870	2,925587E+09	2,925597E+09	3,516705E+09	3,516699E+09	5,851184E+09	7,033404E+09	1,288459E+10
1871	2,925529E+09	2,925544E+09	3,516710E+09	3,516675E+09	5,851073E+09	7,033385E+09	1,288446E+10
1872	2,925647E+09	2,925635E+09	3,516706E+09	3,516666E+09	5,851282E+09	7,033372E+09	1,288465E+10
1873	2,925526E+09	2,925463E+09	3,516662E+09	3,516699E+09	5,850989E+09	7,033361E+09	1,288435E+10
1874	2,925538E+09	2,925547E+09	3,516676E+09	3,516676E+09	5,851085E+09	7,033352E+09	1,288444E+10
1875	2,925585E+09	2,925603E+09	3,516677E+09	3,516667E+09	5,851188E+09	7,033344E+09	1,288453E+10
1876	2,925462E+09	2,925481E+09	3,516645E+09	3,516680E+09	5,850943E+09	7,033325E+09	1,288427E+10
1877	2,925574E+09	2,925618E+09	3,516695E+09	3,516664E+09	5,851192E+09	7,033359E+09	1,288455E+10
1878	2,925576E+09	2,925555E+09	3,516720E+09	3,516668E+09	5,851131E+09	7,033387E+09	1,288452E+10
1879	2,925517E+09	2,925513E+09	3,516699E+09	3,516677E+09	5,851030E+09	7,033376E+09	1,288441E+10
1880	2,925660E+09	2,925698E+09	3,516696E+09	3,516697E+09	5,851358E+09	7,033393E+09	1,288475E+10
1881	2,925601E+09	2,925586E+09	3,516660E+09	3,516727E+09	5,851187E+09	7,033387E+09	1,288457E+10
1882	2,925624E+09	2,925646E+09	3,516694E+09	3,516693E+09	5,851270E+09	7,033387E+09	1,288466E+10
1883	2,925747E+09	2,925751E+09	3,516716E+09	3,516671E+09	5,851498E+09	7,033387E+09	1,288489E+10
1884	2,925654E+09	2,925613E+09	3,516670E+09	3,516683E+09	5,851267E+09	7,033353E+09	1,288462E+10
1885	2,925726E+09	2,925750E+09	3,516705E+09	3,516682E+09	5,851477E+09	7,033387E+09	1,288486E+10
1886	2,925733E+09	2,925743E+09	3,516713E+09	3,516692E+09	5,851476E+09	7,033405E+09	1,288488E+10
1887	2,925612E+09	2,925638E+09	3,516684E+09	3,516697E+09	5,851251E+09	7,033382E+09	1,288463E+10
1888	2,925704E+09	2,925775E+09	3,516718E+09	3,516689E+09	5,851479E+09	7,033407E+09	1,288489E+10
1889	2,925652E+09	2,925612E+09	3,516701E+09	3,516696E+09	5,851264E+09	7,033397E+09	1,288466E+10
1890	2,925601E+09	2,925571E+09	3,516706E+09	3,516676E+09	5,851172E+09	7,033382E+09	1,288455E+10
1891	2,925693E+09	2,925684E+09	3,516698E+09	3,516679E+09	5,851376E+09	7,033377E+09	1,288475E+10
1892	2,925568E+09	2,925529E+09	3,516622E+09	3,516692E+09	5,851097E+09	7,033314E+09	1,288441E+10
1893	2,925581E+09	2,925633E+09	3,516652E+09	3,516676E+09	5,851215E+09	7,033328E+09	1,288454E+10
1894	2,925637E+09	2,925655E+09	3,516688E+09	3,516654E+09	5,851292E+09	7,033342E+09	1,288463E+10
1895	2,925536E+09	2,925517E+09	3,516668E+09	3,516648E+09	5,851053E+09	7,033316E+09	1,288437E+10
1896	2,925630E+09	2,925677E+09	3,516713E+09	3,516650E+09	5,851307E+09	7,033363E+09	1,288467E+10
1897	2,925638E+09	2,925607E+09	3,516695E+09	3,516685E+09	5,851245E+09	7,033379E+09	1,288462E+10
1898	2,925578E+09	2,925588E+09	3,516682E+09	3,516693E+09	5,851166E+09	7,033375E+09	1,288454E+10
1899	2,925708E+09	2,925769E+09	3,516700E+09	3,516703E+09	5,851477E+09	7,033403E+09	1,288488E+10
1900	2,925668E+09	2,925646E+09	3,516654E+09	3,516700E+09	5,851314E+09	7,033354E+09	1,288467E+10

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	2,925702E+09	2,925716E+09	3,516689E+09	3,516683E+09	5,851418E+09	7,033372E+09	1,288479E+10
1902	2,925815E+09	2,925801E+09	3,516727E+09	3,516675E+09	5,851616E+09	7,033402E+09	1,288502E+10
1903	2,925719E+09	2,925674E+09	3,516674E+09	3,516679E+09	5,851393E+09	7,033353E+09	1,288475E+10
1904	2,925756E+09	2,925832E+09	3,516706E+09	3,516684E+09	5,851588E+09	7,033391E+09	1,288498E+10
1905	2,925776E+09	2,925789E+09	3,516702E+09	3,516702E+09	5,851565E+09	7,033404E+09	1,288497E+10
1906	2,925675E+09	2,925670E+09	3,516696E+09	3,516688E+09	5,851344E+09	7,033383E+09	1,288473E+10
1907	2,925757E+09	2,925794E+09	3,516733E+09	3,516684E+09	5,851551E+09	7,033416E+09	1,288497E+10
1908	2,925713E+09	2,925646E+09	3,516672E+09	3,516682E+09	5,851359E+09	7,033354E+09	1,288471E+10
1909	2,925654E+09	2,925644E+09	3,516656E+09	3,516685E+09	5,851298E+09	7,033341E+09	1,288464E+10
1910	2,925728E+09	2,925752E+09	3,516679E+09	3,516686E+09	5,851480E+09	7,033365E+09	1,288485E+10
1911	2,925619E+09	2,925597E+09	3,516627E+09	3,516662E+09	5,851216E+09	7,033289E+09	1,288451E+10
1912	2,925620E+09	2,925696E+09	3,516684E+09	3,516641E+09	5,851316E+09	7,033326E+09	1,288464E+10
1913	2,925697E+09	2,925688E+09	3,516703E+09	3,516651E+09	5,851386E+09	7,033354E+09	1,288474E+10
1914	2,925604E+09	2,925556E+09	3,516682E+09	3,516658E+09	5,851160E+09	7,033340E+09	1,288450E+10
1915	2,925671E+09	2,925730E+09	3,516714E+09	3,516681E+09	5,851401E+09	7,033395E+09	1,288480E+10
1916	2,925688E+09	2,925675E+09	3,516655E+09	3,516695E+09	5,851363E+09	7,033350E+09	1,288471E+10
1917	2,925645E+09	2,925669E+09	3,516646E+09	3,516700E+09	5,851314E+09	7,033346E+09	1,288466E+10
1918	2,925786E+09	2,925819E+09	3,516706E+09	3,516688E+09	5,851605E+09	7,033395E+09	1,288500E+10
1919	2,925764E+09	2,925700E+09	3,516662E+09	3,516656E+09	5,851463E+09	7,033318E+09	1,288478E+10
1920	2,925766E+09	2,925795E+09	3,516700E+09	3,516655E+09	5,851561E+09	7,033355E+09	1,288492E+10
1921	2,925870E+09	2,925870E+09	3,516711E+09	3,516686E+09	5,851741E+09	7,033396E+09	1,288514E+10
1922	2,925762E+09	2,925747E+09	3,516680E+09	3,516692E+09	5,851510E+09	7,033372E+09	1,288488E+10
1923	2,925782E+09	2,925886E+09	3,516732E+09	3,516699E+09	5,851668E+09	7,033431E+09	1,288510E+10
1924	2,925823E+09	2,925820E+09	3,516698E+09	3,516694E+09	5,851642E+09	7,033392E+09	1,288503E+10
1925	2,925739E+09	2,925711E+09	3,516676E+09	3,516699E+09	5,851450E+09	7,033375E+09	1,288483E+10
1926	2,925819E+09	2,925821E+09	3,516719E+09	3,516695E+09	5,851640E+09	7,033413E+09	1,288505E+10
1927	2,925772E+09	2,925702E+09	3,516642E+09	3,516668E+09	5,851474E+09	7,033310E+09	1,288478E+10
1928	2,925688E+09	2,925731E+09	3,516641E+09	3,516663E+09	5,851419E+09	7,033304E+09	1,288472E+10
1929	2,925775E+09	2,925804E+09	3,516670E+09	3,516669E+09	5,851580E+09	7,033339E+09	1,288492E+10
1930	2,925681E+09	2,925638E+09	3,516658E+09	3,516634E+09	5,851319E+09	7,033293E+09	1,288461E+10
1931	2,925664E+09	2,925730E+09	3,516719E+09	3,516636E+09	5,851394E+09	7,033354E+09	1,288475E+10
1932	2,925744E+09	2,925730E+09	3,516688E+09	3,516655E+09	5,851473E+09	7,033343E+09	1,288482E+10
1933	2,925654E+09	2,925634E+09	3,516642E+09	3,516692E+09	5,851289E+09	7,033334E+09	1,288462E+10
1934	2,925723E+09	2,925790E+09	3,516700E+09	3,516707E+09	5,851512E+09	7,033407E+09	1,288492E+10
1935	2,925764E+09	2,925742E+09	3,516650E+09	3,516675E+09	5,851506E+09	7,033325E+09	1,288483E+10
1936	2,925720E+09	2,925745E+09	3,516661E+09	3,516665E+09	5,851465E+09	7,033326E+09	1,288479E+10
1937	2,925870E+09	2,925869E+09	3,516710E+09	3,516679E+09	5,851740E+09	7,033388E+09	1,288513E+10
1938	2,925841E+09	2,925764E+09	3,516679E+09	3,516653E+09	5,851605E+09	7,033333E+09	1,288494E+10
1939	2,925800E+09	2,925867E+09	3,516711E+09	3,516678E+09	5,851666E+09	7,033389E+09	1,288506E+10
1940	2,925901E+09	2,925941E+09	3,516689E+09	3,516699E+09	5,851842E+09	7,033388E+09	1,288523E+10
1941	2,925813E+09	2,925810E+09	3,516657E+09	3,516707E+09	5,851623E+09	7,033364E+09	1,288499E+10
1942	2,925841E+09	2,925901E+09	3,516742E+09	3,516698E+09	5,851742E+09	7,033440E+09	1,288518E+10
1943	2,925902E+09	2,925850E+09	3,516687E+09	3,516666E+09	5,851752E+09	7,033352E+09	1,288510E+10
1944	2,925797E+09	2,925771E+09	3,516657E+09	3,516673E+09	5,851568E+09	7,033329E+09	1,288490E+10
1945	2,925869E+09	2,925879E+09	3,516684E+09	3,516694E+09	5,851748E+09	7,033378E+09	1,288513E+10
1946	2,925818E+09	2,925772E+09	3,516644E+09	3,516650E+09	5,851590E+09	7,033293E+09	1,288488E+10
1947	2,925711E+09	2,925787E+09	3,516676E+09	3,516650E+09	5,851499E+09	7,033326E+09	1,288482E+10
1948	2,925811E+09	2,925843E+09	3,516683E+09	3,516652E+09	5,851654E+09	7,033334E+09	1,288499E+10
1949	2,925734E+09	2,925684E+09	3,516657E+09	3,516656E+09	5,851418E+09	7,033313E+09	1,288473E+10

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	2,925713E+09	2,925756E+09	3,516725E+09	3,516672E+09	5,851469E+09	7,033398E+09	1,288487E+10
1951	2,925802E+09	2,925789E+09	3,516660E+09	3,516669E+09	5,851591E+09	7,033329E+09	1,288492E+10
1952	2,925709E+09	2,925721E+09	3,516620E+09	3,516686E+09	5,851430E+09	7,033306E+09	1,288474E+10
1953	2,925804E+09	2,925844E+09	3,516681E+09	3,516696E+09	5,851648E+09	7,033377E+09	1,288502E+10
1954	2,925858E+09	2,925799E+09	3,516667E+09	3,516638E+09	5,851657E+09	7,033306E+09	1,288496E+10
1955	2,925789E+09	2,925810E+09	3,516687E+09	3,516646E+09	5,851599E+09	7,033333E+09	1,288493E+10
1956	2,925923E+09	2,925939E+09	3,516692E+09	3,516670E+09	5,851862E+09	7,033363E+09	1,288522E+10
1957	2,925885E+09	2,925860E+09	3,516657E+09	3,516682E+09	5,851744E+09	7,033338E+09	1,288508E+10
1958	2,925835E+09	2,925924E+09	3,516721E+09	3,516703E+09	5,851760E+09	7,033424E+09	1,288518E+10
1959	2,925953E+09	2,925988E+09	3,516694E+09	3,516688E+09	5,851941E+09	7,033382E+09	1,288532E+10
1960	2,925876E+09	2,925859E+09	3,516670E+09	3,516686E+09	5,851735E+09	7,033356E+09	1,288509E+10
1961	2,925921E+09	2,925919E+09	3,516728E+09	3,516700E+09	5,851840E+09	7,033427E+09	1,288527E+10
1962	2,925975E+09	2,925892E+09	3,516681E+09	3,516657E+09	5,851867E+09	7,033337E+09	1,288520E+10
1963	2,925831E+09	2,925840E+09	3,516647E+09	3,516674E+09	5,851671E+09	7,033321E+09	1,288499E+10
1964	2,925894E+09	2,925943E+09	3,516657E+09	3,516680E+09	5,851837E+09	7,033337E+09	1,288517E+10
1965	2,925860E+09	2,925836E+09	3,516639E+09	3,516645E+09	5,851696E+09	7,033283E+09	1,288498E+10
1966	2,925758E+09	2,925805E+09	3,516707E+09	3,516648E+09	5,851563E+09	7,033356E+09	1,288492E+10
1967	2,925866E+09	2,925877E+09	3,516685E+09	3,516642E+09	5,851743E+09	7,033327E+09	1,288507E+10
1968	2,925784E+09	2,925749E+09	3,516645E+09	3,516659E+09	5,851532E+09	7,033305E+09	1,288484E+10
1969	2,925769E+09	2,925808E+09	3,516692E+09	3,516699E+09	5,851578E+09	7,033392E+09	1,288497E+10
1970	2,925871E+09	2,925855E+09	3,516659E+09	3,516663E+09	5,851726E+09	7,033322E+09	1,288505E+10
1971	2,925767E+09	2,925786E+09	3,516639E+09	3,516669E+09	5,851553E+09	7,033308E+09	1,288486E+10
1972	2,925872E+09	2,925901E+09	3,516678E+09	3,516670E+09	5,851773E+09	7,033347E+09	1,288512E+10
1973	2,925935E+09	2,925873E+09	3,516657E+09	3,516640E+09	5,851809E+09	7,033297E+09	1,288511E+10
1974	2,925842E+09	2,925862E+09	3,516699E+09	3,516668E+09	5,851703E+09	7,033368E+09	1,288507E+10
1975	2,925966E+09	2,926018E+09	3,516678E+09	3,516677E+09	5,851985E+09	7,033355E+09	1,288534E+10
1976	2,925930E+09	2,925939E+09	3,516654E+09	3,516678E+09	5,851869E+09	7,033332E+09	1,288520E+10
1977	2,925906E+09	2,925952E+09	3,516720E+09	3,516704E+09	5,851858E+09	7,033424E+09	1,288528E+10
1978	2,926042E+09	2,926014E+09	3,516708E+09	3,516661E+09	5,852056E+09	7,033369E+09	1,288543E+10
1979	2,925940E+09	2,925904E+09	3,516671E+09	3,516672E+09	5,851843E+09	7,033343E+09	1,288519E+10
1980	2,925969E+09	2,925978E+09	3,516683E+09	3,516690E+09	5,851947E+09	7,033373E+09	1,288532E+10
1981	2,926015E+09	2,925982E+09	3,516642E+09	3,516666E+09	5,851997E+09	7,033308E+09	1,288530E+10
1982	2,925859E+09	2,925894E+09	3,516664E+09	3,516679E+09	5,851753E+09	7,033343E+09	1,288510E+10
1983	2,925930E+09	2,925994E+09	3,516674E+09	3,516656E+09	5,851924E+09	7,033329E+09	1,288525E+10
1984	2,925906E+09	2,925886E+09	3,516667E+09	3,516630E+09	5,851792E+09	7,033298E+09	1,288509E+10
1985	2,925820E+09	2,925820E+09	3,516710E+09	3,516671E+09	5,851640E+09	7,033381E+09	1,288502E+10
1986	2,925928E+09	2,925913E+09	3,516685E+09	3,516657E+09	5,851841E+09	7,033342E+09	1,288518E+10
1987	2,925825E+09	2,925818E+09	3,516632E+09	3,516676E+09	5,851644E+09	7,033308E+09	1,288495E+10
1988	2,925823E+09	2,925868E+09	3,516649E+09	3,516687E+09	5,851691E+09	7,033337E+09	1,288503E+10
1989	2,925947E+09	2,925923E+09	3,516642E+09	3,516645E+09	5,851870E+09	7,033287E+09	1,288516E+10
1990	2,925844E+09	2,925829E+09	3,516662E+09	3,516647E+09	5,851673E+09	7,033309E+09	1,288498E+10
1991	2,925938E+09	2,925965E+09	3,516675E+09	3,516641E+09	5,851902E+09	7,033316E+09	1,288522E+10
1992	2,925986E+09	2,925967E+09	3,516660E+09	3,516634E+09	5,851953E+09	7,033294E+09	1,288525E+10
1993	2,925893E+09	2,925926E+09	3,516690E+09	3,516695E+09	5,851818E+09	7,033386E+09	1,288520E+10
1994	2,926023E+09	2,926076E+09	3,516699E+09	3,516677E+09	5,852099E+09	7,033376E+09	1,288548E+10
1995	2,925985E+09	2,925993E+09	3,516681E+09	3,516676E+09	5,851977E+09	7,033357E+09	1,288533E+10
1996	2,925973E+09	2,925985E+09	3,516703E+09	3,516698E+09	5,851958E+09	7,033401E+09	1,288536E+10
1997	2,926117E+09	2,926069E+09	3,516683E+09	3,516674E+09	5,852186E+09	7,033356E+09	1,288554E+10
1998	2,925993E+09	2,925953E+09	3,516662E+09	3,516687E+09	5,851945E+09	7,033349E+09	1,288529E+10

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	2,926005E+09	2,926057E+09	3,516653E+09	3,516678E+09	5,852062E+09	7,033330E+09	1,288539E+10
2000	2,926054E+09	2,926063E+09	3,516643E+09	3,516641E+09	5,852116E+09	7,033285E+09	1,288540E+10
2001	2,925914E+09	2,925918E+09	3,516681E+09	3,516671E+09	5,851832E+09	7,033352E+09	1,288518E+10
2002	2,925994E+09	2,926017E+09	3,516706E+09	3,516634E+09	5,852010E+09	7,033340E+09	1,288535E+10
2003	2,925950E+09	2,925924E+09	3,516679E+09	3,516634E+09	5,851874E+09	7,033313E+09	1,288519E+10
2004	2,925859E+09	2,925866E+09	3,516668E+09	3,516684E+09	5,851725E+09	7,033352E+09	1,288508E+10
2005	2,925979E+09	2,925987E+09	3,516642E+09	3,516673E+09	5,851966E+09	7,033315E+09	1,288528E+10
2006	2,925875E+09	2,925866E+09	3,516636E+09	3,516674E+09	5,851741E+09	7,033310E+09	1,288505E+10
2007	2,925885E+09	2,925932E+09	3,516647E+09	3,516650E+09	5,851817E+09	7,033297E+09	1,288511E+10
2008	2,926020E+09	2,925995E+09	3,516656E+09	3,516615E+09	5,852015E+09	7,033270E+09	1,288529E+10
2009	2,925918E+09	2,925873E+09	3,516670E+09	3,516659E+09	5,851792E+09	7,033329E+09	1,288512E+10
2010	2,925997E+09	2,926032E+09	3,516686E+09	3,516647E+09	5,852029E+09	7,033333E+09	1,288536E+10
2011	2,926021E+09	2,926051E+09	3,516666E+09	3,516653E+09	5,852073E+09	7,033319E+09	1,288539E+10
2012	2,925942E+09	2,925981E+09	3,516669E+09	3,516700E+09	5,851923E+09	7,033369E+09	1,288529E+10
2013	2,926101E+09	2,926127E+09	3,516689E+09	3,516678E+09	5,852229E+09	7,033367E+09	1,288560E+10
2014	2,926063E+09	2,926023E+09	3,516690E+09	3,516675E+09	5,852087E+09	7,033365E+09	1,288545E+10
2015	2,926042E+09	2,926048E+09	3,516671E+09	3,516678E+09	5,852090E+09	7,033349E+09	1,288544E+10
2016	2,926170E+09	2,926161E+09	3,516662E+09	3,516661E+09	5,852332E+09	7,033323E+09	1,288565E+10
2017	2,926041E+09	2,926017E+09	3,516653E+09	3,516693E+09	5,852058E+09	7,033346E+09	1,288540E+10
2018	2,926050E+09	2,926109E+09	3,516684E+09	3,516651E+09	5,852159E+09	7,033336E+09	1,288549E+10
2019	2,926090E+09	2,926112E+09	3,516687E+09	3,516629E+09	5,852202E+09	7,033315E+09	1,288552E+10
2020	2,925961E+09	2,925937E+09	3,516675E+09	3,516670E+09	5,851899E+09	7,033345E+09	1,288524E+10
2021	2,926045E+09	2,926051E+09	3,516688E+09	3,516659E+09	5,852096E+09	7,033348E+09	1,288544E+10
2022	2,925990E+09	2,925962E+09	3,516666E+09	3,516665E+09	5,851952E+09	7,033331E+09	1,288528E+10
2023	2,925899E+09	2,925933E+09	3,516619E+09	3,516678E+09	5,851832E+09	7,033297E+09	1,288513E+10
2024	2,926039E+09	2,926059E+09	3,516632E+09	3,516645E+09	5,852098E+09	7,033277E+09	1,288537E+10
2025	2,925957E+09	2,925904E+09	3,516640E+09	3,516651E+09	5,851861E+09	7,033291E+09	1,288515E+10
2026	2,925967E+09	2,925981E+09	3,516670E+09	3,516610E+09	5,851948E+09	7,033280E+09	1,288523E+10
2027	2,926071E+09	2,926074E+09	3,516671E+09	3,516609E+09	5,852146E+09	7,033280E+09	1,288543E+10
2028	2,925957E+09	2,925947E+09	3,516645E+09	3,516676E+09	5,851904E+09	7,033321E+09	1,288523E+10
2029	2,926041E+09	2,926115E+09	3,516675E+09	3,516675E+09	5,852155E+09	7,033350E+09	1,288551E+10
2030	2,926071E+09	2,926099E+09	3,516691E+09	3,516673E+09	5,852170E+09	7,033364E+09	1,288553E+10
2031	2,926010E+09	2,926034E+09	3,516662E+09	3,516687E+09	5,852044E+09	7,033349E+09	1,288539E+10
2032	2,926187E+09	2,926185E+09	3,516688E+09	3,516665E+09	5,852372E+09	7,033353E+09	1,288573E+10
2033	2,926146E+09	2,926065E+09	3,516677E+09	3,516686E+09	5,852211E+09	7,033363E+09	1,288557E+10
2034	2,926109E+09	2,926119E+09	3,516662E+09	3,516665E+09	5,852228E+09	7,033327E+09	1,288556E+10
2035	2,926207E+09	2,926245E+09	3,516661E+09	3,516650E+09	5,852452E+09	7,033311E+09	1,288576E+10
2036	2,926080E+09	2,926064E+09	3,516646E+09	3,516675E+09	5,852144E+09	7,033321E+09	1,288547E+10
2037	2,926104E+09	2,926147E+09	3,516692E+09	3,516639E+09	5,852251E+09	7,033331E+09	1,288558E+10
2038	2,926134E+09	2,926125E+09	3,516706E+09	3,516636E+09	5,852259E+09	7,033341E+09	1,288560E+10
2039	2,926000E+09	2,925984E+09	3,516642E+09	3,516670E+09	5,851983E+09	7,033312E+09	1,288530E+10
2040	2,926089E+09	2,926119E+09	3,516656E+09	3,516665E+09	5,852208E+09	7,033321E+09	1,288553E+10
2041	2,926043E+09	2,926011E+09	3,516645E+09	3,516676E+09	5,852054E+09	7,033321E+09	1,288537E+10
2042	2,925965E+09	2,925989E+09	3,516629E+09	3,516643E+09	5,851954E+09	7,033272E+09	1,288523E+10
2043	2,926097E+09	2,926124E+09	3,516659E+09	3,516617E+09	5,852220E+09	7,033275E+09	1,288550E+10
2044	2,926019E+09	2,925953E+09	3,516638E+09	3,516641E+09	5,851972E+09	7,033279E+09	1,288525E+10
2045	2,926024E+09	2,926047E+09	3,516669E+09	3,516627E+09	5,852070E+09	7,033296E+09	1,288537E+10
2046	2,926105E+09	2,926139E+09	3,516680E+09	3,516646E+09	5,852244E+09	7,033325E+09	1,288557E+10
2047	2,925998E+09	2,926024E+09	3,516620E+09	3,516683E+09	5,852022E+09	7,033303E+09	1,288532E+10

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							
2048	2,926110E+09	2,926176E+09	3,516679E+09	3,516667E+09	5,852286E+09	7,033347E+09	1,288563E+10
2049	2,926166E+09	2,926128E+09	3,516696E+09	3,516671E+09	5,852294E+09	7,033367E+09	1,288566E+10
2050	2,926109E+09	2,926079E+09	3,516661E+09	3,516658E+09	5,852188E+09	7,033319E+09	1,288551E+10
2051	2,926252E+09	2,926266E+09	3,516682E+09	3,516653E+09	5,852517E+09	7,033336E+09	1,288585E+10
2052	2,926195E+09	2,926145E+09	3,516637E+09	3,516679E+09	5,852339E+09	7,033316E+09	1,288566E+10
2053	2,926148E+09	2,926198E+09	3,516657E+09	3,516660E+09	5,852346E+09	7,033317E+09	1,288566E+10
2054	2,926237E+09	2,926291E+09	3,516698E+09	3,516651E+09	5,852527E+09	7,033349E+09	1,288588E+10
2055	2,926118E+09	2,926105E+09	3,516649E+09	3,516663E+09	5,852223E+09	7,033312E+09	1,288553E+10
2056	2,926156E+09	2,926182E+09	3,516700E+09	3,516646E+09	5,852337E+09	7,033346E+09	1,288568E+10
2057	2,926188E+09	2,926147E+09	3,516691E+09	3,516669E+09	5,852334E+09	7,033360E+09	1,288569E+10
2058	2,926054E+09	2,926036E+09	3,516615E+09	3,516670E+09	5,852090E+09	7,033285E+09	1,288538E+10
2059	2,926132E+09	2,926189E+09	3,516643E+09	3,516653E+09	5,852322E+09	7,033296E+09	1,288562E+10
2060	2,926102E+09	2,926057E+09	3,516625E+09	3,516646E+09	5,852159E+09	7,033271E+09	1,288543E+10
2061	2,926038E+09	2,926041E+09	3,516637E+09	3,516614E+09	5,852079E+09	7,033251E+09	1,288533E+10
2062	2,926149E+09	2,926168E+09	3,516682E+09	3,516614E+09	5,852317E+09	7,033297E+09	1,288561E+10
2063	2,926056E+09	2,926029E+09	3,516620E+09	3,516643E+09	5,852085E+09	7,033262E+09	1,288535E+10
2064	2,926065E+09	2,926130E+09	3,516663E+09	3,516645E+09	5,852196E+09	7,033308E+09	1,288550E+10
2065	2,926157E+09	2,926188E+09	3,516686E+09	3,516674E+09	5,852345E+09	7,033360E+09	1,288570E+10
2066	2,926077E+09	2,926076E+09	3,516637E+09	3,516669E+09	5,852154E+09	7,033306E+09	1,288546E+10
2067	2,926192E+09	2,926230E+09	3,516692E+09	3,516652E+09	5,852422E+09	7,033344E+09	1,288577E+10
2068	2,926249E+09	2,926174E+09	3,516670E+09	3,516666E+09	5,852422E+09	7,033336E+09	1,288576E+10
2069	2,926183E+09	2,926156E+09	3,516638E+09	3,516659E+09	5,852340E+09	7,033297E+09	1,288564E+10
2070	2,926288E+09	2,926340E+09	3,516675E+09	3,516667E+09	5,852628E+09	7,033342E+09	1,288597E+10
2071	2,926225E+09	2,926228E+09	3,516619E+09	3,516663E+09	5,852452E+09	7,033282E+09	1,288573E+10
2072	2,926200E+09	2,926253E+09	3,516673E+09	3,516642E+09	5,852453E+09	7,033315E+09	1,288577E+10
2073	2,926296E+09	2,926307E+09	3,516717E+09	3,516654E+09	5,852602E+09	7,033371E+09	1,288597E+10
2074	2,926184E+09	2,926137E+09	3,516651E+09	3,516652E+09	5,852321E+09	7,033303E+09	1,288562E+10
2075	2,926198E+09	2,926236E+09	3,516689E+09	3,516652E+09	5,852434E+09	7,033341E+09	1,288578E+10
2076	2,926228E+09	2,926200E+09	3,516648E+09	3,516677E+09	5,852428E+09	7,033324E+09	1,288575E+10
2077	2,926105E+09	2,926099E+09	3,516603E+09	3,516659E+09	5,852204E+09	7,033262E+09	1,288547E+10
2078	2,926176E+09	2,926232E+09	3,516668E+09	3,516642E+09	5,852409E+09	7,033310E+09	1,288572E+10
2079	2,926153E+09	2,926114E+09	3,516623E+09	3,516619E+09	5,852267E+09	7,033242E+09	1,288551E+10
2080	2,926097E+09	2,926095E+09	3,516651E+09	3,516614E+09	5,852192E+09	7,033266E+09	1,288546E+10
2081	2,926196E+09	2,926216E+09	3,516686E+09	3,516649E+09	5,852412E+09	7,033334E+09	1,288575E+10
2082	2,926109E+09	2,926096E+09	3,516611E+09	3,516652E+09	5,852205E+09	7,033263E+09	1,288547E+10
2083	2,926116E+09	2,926196E+09	3,516670E+09	3,516647E+09	5,852312E+09	7,033317E+09	1,288563E+10
2084	2,926234E+09	2,926226E+09	3,516668E+09	3,516661E+09	5,852459E+09	7,033329E+09	1,288579E+10
2085	2,926171E+09	2,926124E+09	3,516629E+09	3,516647E+09	5,852295E+09	7,033276E+09	1,288557E+10
2086	2,926262E+09	2,926286E+09	3,516690E+09	3,516653E+09	5,852548E+09	7,033343E+09	1,288589E+10
2087	2,926298E+09	2,926267E+09	3,516628E+09	3,516653E+09	5,852566E+09	7,033281E+09	1,288585E+10
2088	2,926232E+09	2,926252E+09	3,516629E+09	3,516657E+09	5,852484E+09	7,033287E+09	1,288577E+10
2089	2,926330E+09	2,926397E+09	3,516695E+09	3,516673E+09	5,852726E+09	7,033368E+09	1,288609E+10
2090	2,926284E+09	2,926275E+09	3,516651E+09	3,516642E+09	5,852560E+09	7,033294E+09	1,288585E+10
2091	2,926253E+09	2,926291E+09	3,516705E+09	3,516637E+09	5,852545E+09	7,033342E+09	1,288589E+10
2092	2,926351E+09	2,926327E+09	3,516698E+09	3,516670E+09	5,852678E+09	7,033369E+09	1,288605E+10
2093	2,926240E+09	2,926186E+09	3,516625E+09	3,516669E+09	5,852426E+09	7,033294E+09	1,288572E+10
2094	2,926232E+09	2,926287E+09	3,516667E+09	3,516672E+09	5,852519E+09	7,033339E+09	1,288586E+10
2095	2,926266E+09	2,926263E+09	3,516615E+09	3,516651E+09	5,852528E+09	7,033266E+09	1,288579E+10
2096	2,926173E+09	2,926151E+09	3,516610E+09	3,516627E+09	5,852323E+09	7,033236E+09	1,288556E+10

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	2,926239E+09	2,926259E+09	3,516684E+09	3,516630E+09	5,852498E+09	7,033315E+09	1,288581E+10
2098	2,926217E+09	2,926171E+09	3,516630E+09	3,516602E+09	5,852388E+09	7,033233E+09	1,288562E+10
2099	2,926136E+09	2,926170E+09	3,516652E+09	3,516620E+09	5,852306E+09	7,033272E+09	1,288558E+10
2100	2,926230E+09	2,926274E+09	3,516662E+09	3,516667E+09	5,852504E+09	7,033328E+09	1,288583E+10
2101	2,926168E+09	2,926159E+09	3,516615E+09	3,516653E+09	5,852327E+09	7,033268E+09	1,288559E+10
2102	2,926176E+09	2,926236E+09	3,516686E+09	3,516654E+09	5,852411E+09	7,033340E+09	1,288575E+10
2103	2,926303E+09	2,926283E+09	3,516650E+09	3,516646E+09	5,852586E+09	7,033296E+09	1,288588E+10
2104	2,926255E+09	2,926194E+09	3,516618E+09	3,516646E+09	5,852449E+09	7,033263E+09	1,288571E+10
2105	2,926322E+09	2,926354E+09	3,516677E+09	3,516670E+09	5,852676E+09	7,033347E+09	1,288602E+10
2106	2,926358E+09	2,926358E+09	3,516621E+09	3,516638E+09	5,852716E+09	7,033259E+09	1,288597E+10
2107	2,926281E+09	2,926324E+09	3,516655E+09	3,516639E+09	5,852605E+09	7,033293E+09	1,288590E+10
2108	2,926388E+09	2,926428E+09	3,516705E+09	3,516660E+09	5,852816E+09	7,033365E+09	1,288618E+10
2109	2,926357E+09	2,926309E+09	3,516664E+09	3,516636E+09	5,852666E+09	7,033300E+09	1,288597E+10
2110	2,926298E+09	2,926324E+09	3,516704E+09	3,516662E+09	5,852622E+09	7,033366E+09	1,288599E+10
2111	2,926384E+09	2,926391E+09	3,516650E+09	3,516675E+09	5,852775E+09	7,033325E+09	1,288610E+10
2112	2,926288E+09	2,926254E+09	3,516601E+09	3,516670E+09	5,852543E+09	7,033271E+09	1,288581E+10
2113	2,926281E+09	2,926331E+09	3,516670E+09	3,516668E+09	5,852612E+09	7,033339E+09	1,288595E+10
2114	2,926334E+09	2,926313E+09	3,516627E+09	3,516610E+09	5,852647E+09	7,033237E+09	1,288588E+10
2115	2,926228E+09	2,926201E+09	3,516638E+09	3,516606E+09	5,852429E+09	7,033245E+09	1,288567E+10
2116	2,926283E+09	2,926299E+09	3,516675E+09	3,516637E+09	5,852582E+09	7,033312E+09	1,288589E+10
2117	2,926259E+09	2,926232E+09	3,516622E+09	3,516619E+09	5,852492E+09	7,033241E+09	1,288573E+10
2118	2,926161E+09	2,926225E+09	3,516650E+09	3,516651E+09	5,852387E+09	7,033301E+09	1,288569E+10
2119	2,926274E+09	2,926328E+09	3,516638E+09	3,516655E+09	5,852602E+09	7,033293E+09	1,288589E+10
2120	2,926254E+09	2,926207E+09	3,516613E+09	3,516636E+09	5,852461E+09	7,033249E+09	1,288571E+10
2121	2,926263E+09	2,926274E+09	3,516681E+09	3,516650E+09	5,852537E+09	7,033331E+09	1,288587E+10
2122	2,926388E+09	2,926359E+09	3,516635E+09	3,516622E+09	5,852747E+09	7,033257E+09	1,288600E+10
2123	2,926312E+09	2,926293E+09	3,516619E+09	3,516634E+09	5,852604E+09	7,033253E+09	1,288586E+10
2124	2,926366E+09	2,926428E+09	3,516669E+09	3,516667E+09	5,852795E+09	7,033336E+09	1,288613E+10
2125	2,926416E+09	2,926424E+09	3,516652E+09	3,516627E+09	5,852840E+09	7,033279E+09	1,288612E+10
2126	2,926328E+09	2,926363E+09	3,516690E+09	3,516653E+09	5,852691E+09	7,033343E+09	1,288603E+10
2127	2,926435E+09	2,926466E+09	3,516695E+09	3,516665E+09	5,852901E+09	7,033360E+09	1,288626E+10
2128	2,926424E+09	2,926358E+09	3,516647E+09	3,516660E+09	5,852782E+09	7,033307E+09	1,288609E+10
2129	2,926348E+09	2,926367E+09	3,516671E+09	3,516694E+09	5,852715E+09	7,033364E+09	1,288608E+10
2130	2,926442E+09	2,926458E+09	3,516621E+09	3,516657E+09	5,852900E+09	7,033278E+09	1,288618E+10
2131	2,926347E+09	2,926316E+09	3,516606E+09	3,516626E+09	5,852663E+09	7,033232E+09	1,288590E+10
2132	2,926340E+09	2,926361E+09	3,516666E+09	3,516630E+09	5,852701E+09	7,033296E+09	1,288600E+10
2133	2,926398E+09	2,926361E+09	3,516642E+09	3,516583E+09	5,852760E+09	7,033225E+09	1,288598E+10
2134	2,926256E+09	2,926251E+09	3,516646E+09	3,516625E+09	5,852507E+09	7,033271E+09	1,288578E+10
2135	2,926295E+09	2,926366E+09	3,516648E+09	3,516647E+09	5,852661E+09	7,033295E+09	1,288596E+10
2136	2,926303E+09	2,926296E+09	3,516616E+09	3,516635E+09	5,852599E+09	7,033252E+09	1,288585E+10
2137	2,926217E+09	2,926259E+09	3,516658E+09	3,516664E+09	5,852475E+09	7,033322E+09	1,288580E+10
2138	2,926362E+09	2,926374E+09	3,516642E+09	3,516630E+09	5,852736E+09	7,033271E+09	1,288601E+10
2139	2,926339E+09	2,926268E+09	3,516624E+09	3,516616E+09	5,852607E+09	7,033240E+09	1,288585E+10
2140	2,926335E+09	2,926336E+09	3,516657E+09	3,516651E+09	5,852671E+09	7,033308E+09	1,288598E+10
2141	2,926454E+09	2,926449E+09	3,516626E+09	3,516621E+09	5,852903E+09	7,033247E+09	1,288615E+10
2142	2,926348E+09	2,926372E+09	3,516631E+09	3,516650E+09	5,852720E+09	7,033281E+09	1,288600E+10
2143	2,926406E+09	2,926490E+09	3,516670E+09	3,516650E+09	5,852896E+09	7,033320E+09	1,288622E+10
2144	2,926490E+09	2,926468E+09	3,516666E+09	3,516628E+09	5,852958E+09	7,033293E+09	1,288625E+10
2145	2,926397E+09	2,926392E+09	3,516691E+09	3,516675E+09	5,852789E+09	7,033366E+09	1,288615E+10

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	2,926505E+09	2,926524E+09	3,516664E+09	3,516660E+09	5,853029E+09	7,033324E+09	1,288635E+10
2147	2,926474E+09	2,926435E+09	3,516628E+09	3,516652E+09	5,852908E+09	7,033279E+09	1,288619E+10
2148	2,926396E+09	2,926424E+09	3,516642E+09	3,516679E+09	5,852820E+09	7,033321E+09	1,288614E+10
2149	2,926503E+09	2,926509E+09	3,516635E+09	3,516621E+09	5,853012E+09	7,033256E+09	1,288627E+10
2150	2,926387E+09	2,926357E+09	3,516637E+09	3,516618E+09	5,852744E+09	7,033255E+09	1,288600E+10
2151	2,926370E+09	2,926403E+09	3,516663E+09	3,516616E+09	5,852773E+09	7,033279E+09	1,288605E+10
2152	2,926441E+09	2,926415E+09	3,516636E+09	3,516606E+09	5,852855E+09	7,033243E+09	1,288610E+10
2153	2,926286E+09	2,926298E+09	3,516632E+09	3,516665E+09	5,852583E+09	7,033297E+09	1,288588E+10
2154	2,926346E+09	2,926419E+09	3,516633E+09	3,516641E+09	5,852765E+09	7,033274E+09	1,288604E+10
2155	2,926371E+09	2,926346E+09	3,516629E+09	3,516610E+09	5,852717E+09	7,033239E+09	1,288596E+10
2156	2,926302E+09	2,926291E+09	3,516641E+09	3,516643E+09	5,852593E+09	7,033284E+09	1,288588E+10
2157	2,926454E+09	2,926433E+09	3,516639E+09	3,516608E+09	5,852887E+09	7,033247E+09	1,288613E+10
2158	2,926392E+09	2,926352E+09	3,516617E+09	3,516625E+09	5,852744E+09	7,033243E+09	1,288599E+10
2159	2,926365E+09	2,926431E+09	3,516633E+09	3,516643E+09	5,852796E+09	7,033276E+09	1,288607E+10
2160	2,926507E+09	2,926537E+09	3,516636E+09	3,516628E+09	5,853044E+09	7,033264E+09	1,288631E+10
2161	2,926402E+09	2,926418E+09	3,516658E+09	3,516665E+09	5,852820E+09	7,033323E+09	1,288614E+10
2162	2,926479E+09	2,926535E+09	3,516685E+09	3,516641E+09	5,853014E+09	7,033327E+09	1,288634E+10
2163	2,926563E+09	2,926519E+09	3,516675E+09	3,516626E+09	5,853082E+09	7,033301E+09	1,288638E+10
2164	2,926460E+09	2,926434E+09	3,516650E+09	3,516690E+09	5,852894E+09	7,033340E+09	1,288623E+10
2165	2,926569E+09	2,926590E+09	3,516641E+09	3,516655E+09	5,853158E+09	7,033295E+09	1,288645E+10
2166	2,926514E+09	2,926498E+09	3,516622E+09	3,516643E+09	5,853012E+09	7,033265E+09	1,288628E+10
2167	2,926437E+09	2,926472E+09	3,516633E+09	3,516633E+09	5,852910E+09	7,033266E+09	1,288618E+10
2168	2,926567E+09	2,926554E+09	3,516644E+09	3,516601E+09	5,853121E+09	7,033245E+09	1,288637E+10
2169	2,926429E+09	2,926391E+09	3,516646E+09	3,516632E+09	5,852820E+09	7,033278E+09	1,288610E+10
2170	2,926407E+09	2,926461E+09	3,516651E+09	3,516619E+09	5,852868E+09	7,033269E+09	1,288614E+10
2171	2,926470E+09	2,926481E+09	3,516639E+09	3,516612E+09	5,852952E+09	7,033251E+09	1,288620E+10
2172	2,926331E+09	2,926338E+09	3,516617E+09	3,516672E+09	5,852669E+09	7,033289E+09	1,288596E+10
2173	2,926423E+09	2,926457E+09	3,516646E+09	3,516625E+09	5,852880E+09	7,033270E+09	1,288615E+10
2174	2,926436E+09	2,926392E+09	3,516641E+09	3,516613E+09	5,852828E+09	7,033254E+09	1,288608E+10
2175	2,926361E+09	2,926351E+09	3,516617E+09	3,516630E+09	5,852713E+09	7,033247E+09	1,288596E+10
2176	2,926519E+09	2,926515E+09	3,516618E+09	3,516623E+09	5,853034E+09	7,033241E+09	1,288628E+10
2177	2,926436E+09	2,926433E+09	3,516611E+09	3,516651E+09	5,852869E+09	7,033262E+09	1,288613E+10
2178	2,926423E+09	2,926506E+09	3,516633E+09	3,516622E+09	5,852929E+09	7,033255E+09	1,288618E+10
2179	2,926571E+09	2,926593E+09	3,516669E+09	3,516601E+09	5,853165E+09	7,033270E+09	1,288643E+10
2180	2,926481E+09	2,926450E+09	3,516655E+09	3,516660E+09	5,852931E+09	7,033315E+09	1,288625E+10
2181	2,926563E+09	2,926577E+09	3,516682E+09	3,516637E+09	5,853140E+09	7,033319E+09	1,288646E+10
2182	2,926609E+09	2,926587E+09	3,516659E+09	3,516647E+09	5,853196E+09	7,033306E+09	1,288650E+10
2183	2,926495E+09	2,926508E+09	3,516608E+09	3,516677E+09	5,853004E+09	7,033285E+09	1,288629E+10
2184	2,926625E+09	2,926657E+09	3,516633E+09	3,516646E+09	5,853282E+09	7,033279E+09	1,288656E+10
2185	2,926563E+09	2,926542E+09	3,516640E+09	3,516638E+09	5,853105E+09	7,033278E+09	1,288638E+10
2186	2,926495E+09	2,926517E+09	3,516646E+09	3,516607E+09	5,853011E+09	7,033253E+09	1,288626E+10
2187	2,926611E+09	2,926604E+09	3,516666E+09	3,516596E+09	5,853216E+09	7,033262E+09	1,288648E+10
2188	2,926467E+09	2,926433E+09	3,516622E+09	3,516661E+09	5,852900E+09	7,033283E+09	1,288618E+10
2189	2,926452E+09	2,926510E+09	3,516643E+09	3,516632E+09	5,852962E+09	7,033275E+09	1,288624E+10
2190	2,926507E+09	2,926528E+09	3,516642E+09	3,516623E+09	5,853034E+09	7,033265E+09	1,288630E+10
2191	2,926387E+09	2,926373E+09	3,516597E+09	3,516642E+09	5,852760E+09	7,033240E+09	1,288600E+10
2192	2,926511E+09	2,926507E+09	3,516632E+09	3,516615E+09	5,853018E+09	7,033247E+09	1,288627E+10
2193	2,926501E+09	2,926451E+09	3,516626E+09	3,516619E+09	5,852953E+09	7,033245E+09	1,288620E+10
2194	2,926416E+09	2,926440E+09	3,516598E+09	3,516613E+09	5,852857E+09	7,033212E+09	1,288607E+10

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	2,926562E+09	2,926610E+09	3,516632E+09	3,516605E+09	5,853172E+09	7,033238E+09	1,288641E+10
2196	2,926488E+09	2,926488E+09	3,516621E+09	3,516649E+09	5,852976E+09	7,033270E+09	1,288625E+10
2197	2,926498E+09	2,926547E+09	3,516671E+09	3,516612E+09	5,853045E+09	7,033284E+09	1,288633E+10
2198	2,926630E+09	2,926636E+09	3,516690E+09	3,516621E+09	5,853266E+09	7,033311E+09	1,288658E+10
2199	2,926539E+09	2,926498E+09	3,516625E+09	3,516667E+09	5,853036E+09	7,033292E+09	1,288633E+10
2200	2,926633E+09	2,926648E+09	3,516643E+09	3,516663E+09	5,853280E+09	7,033306E+09	1,288659E+10
2201	2,926657E+09	2,926655E+09	3,516633E+09	3,516665E+09	5,853313E+09	7,033298E+09	1,288661E+10
2202	2,926558E+09	2,926575E+09	3,516599E+09	3,516638E+09	5,853133E+09	7,033237E+09	1,288637E+10
2203	2,926688E+09	2,926709E+09	3,516660E+09	3,516601E+09	5,853397E+09	7,033261E+09	1,288666E+10
2204	2,926624E+09	2,926577E+09	3,516643E+09	3,516626E+09	5,853200E+09	7,033269E+09	1,288647E+10
2205	2,926550E+09	2,926560E+09	3,516657E+09	3,516605E+09	5,853110E+09	7,033262E+09	1,288637E+10
2206	2,926623E+09	2,926666E+09	3,516665E+09	3,516628E+09	5,853289E+09	7,033293E+09	1,288658E+10
2207	2,926487E+09	2,926486E+09	3,516596E+09	3,516665E+09	5,852973E+09	7,033261E+09	1,288623E+10
2208	2,926509E+09	2,926549E+09	3,516634E+09	3,516641E+09	5,853058E+09	7,033275E+09	1,288633E+10
2209	2,926567E+09	2,926557E+09	3,516648E+09	3,516630E+09	5,853124E+09	7,033278E+09	1,288640E+10
2210	2,926465E+09	2,926422E+09	3,516585E+09	3,516611E+09	5,852887E+09	7,033196E+09	1,288608E+10
2211	2,926574E+09	2,926572E+09	3,516633E+09	3,516595E+09	5,853146E+09	7,033228E+09	1,288637E+10
2212	2,926555E+09	2,926525E+09	3,516601E+09	3,516626E+09	5,853079E+09	7,033227E+09	1,288631E+10
2213	2,926474E+09	2,926511E+09	3,516608E+09	3,516604E+09	5,852985E+09	7,033212E+09	1,288620E+10
2214	2,926599E+09	2,926671E+09	3,516662E+09	3,516607E+09	5,853270E+09	7,033269E+09	1,288654E+10
2215	2,926546E+09	2,926529E+09	3,516621E+09	3,516631E+09	5,853075E+09	7,033253E+09	1,288633E+10
2216	2,926582E+09	2,926592E+09	3,516661E+09	3,516629E+09	5,853174E+09	7,033290E+09	1,288646E+10
2217	2,926691E+09	2,926693E+09	3,516671E+09	3,516652E+09	5,853384E+09	7,033323E+09	1,288671E+10
2218	2,926601E+09	2,926583E+09	3,516588E+09	3,516658E+09	5,853184E+09	7,033246E+09	1,288643E+10
2219	2,926689E+09	2,926734E+09	3,516641E+09	3,516641E+09	5,853424E+09	7,033282E+09	1,288671E+10
2220	2,926721E+09	2,926714E+09	3,516634E+09	3,516648E+09	5,853434E+09	7,033281E+09	1,288672E+10
2221	2,926631E+09	2,926620E+09	3,516635E+09	3,516611E+09	5,853250E+09	7,033246E+09	1,288650E+10
2222	2,926725E+09	2,926756E+09	3,516691E+09	3,516607E+09	5,853482E+09	7,033299E+09	1,288678E+10
2223	2,926654E+09	2,926617E+09	3,516629E+09	3,516635E+09	5,853271E+09	7,033264E+09	1,288653E+10
2224	2,926592E+09	2,926614E+09	3,516632E+09	3,516644E+09	5,853206E+09	7,033276E+09	1,288648E+10
2225	2,926654E+09	2,926707E+09	3,516647E+09	3,516654E+09	5,853361E+09	7,033301E+09	1,288666E+10
2226	2,926545E+09	2,926525E+09	3,516581E+09	3,516631E+09	5,853070E+09	7,033213E+09	1,288628E+10
2227	2,926585E+09	2,926589E+09	3,516640E+09	3,516597E+09	5,853174E+09	7,033237E+09	1,288641E+10
2228	2,926642E+09	2,926594E+09	3,516627E+09	3,516612E+09	5,853237E+09	7,033239E+09	1,288648E+10
2229	2,926534E+09	2,926486E+09	3,516586E+09	3,516593E+09	5,853021E+09	7,033179E+09	1,288620E+10
2230	2,926597E+09	2,926660E+09	3,516637E+09	3,516601E+09	5,853257E+09	7,033238E+09	1,288650E+10
2231	2,926582E+09	2,926597E+09	3,516597E+09	3,516617E+09	5,853179E+09	7,033214E+09	1,288639E+10
2232	2,926534E+09	2,926568E+09	3,516623E+09	3,516618E+09	5,853101E+09	7,033241E+09	1,288634E+10
2233	2,926654E+09	2,926708E+09	3,516683E+09	3,516633E+09	5,853362E+09	7,033316E+09	1,288668E+10
2234	2,926622E+09	2,926580E+09	3,516615E+09	3,516631E+09	5,853202E+09	7,033245E+09	1,288645E+10
2235	2,926657E+09	2,926657E+09	3,516649E+09	3,516635E+09	5,853314E+09	7,033284E+09	1,288660E+10
2236	2,926759E+09	2,926764E+09	3,516631E+09	3,516668E+09	5,853523E+09	7,033300E+09	1,288682E+10
2237	2,926680E+09	2,926655E+09	3,516587E+09	3,516634E+09	5,853335E+09	7,033220E+09	1,288656E+10
2238	2,926740E+09	2,926798E+09	3,516666E+09	3,516615E+09	5,853538E+09	7,033280E+09	1,288682E+10
2239	2,926779E+09	2,926759E+09	3,516638E+09	3,516612E+09	5,853539E+09	7,033250E+09	1,288679E+10
2240	2,926696E+09	2,926665E+09	3,516632E+09	3,516620E+09	5,853361E+09	7,033252E+09	1,288661E+10
2241	2,926749E+09	2,926804E+09	3,516687E+09	3,516642E+09	5,853553E+09	7,033328E+09	1,288688E+10
2242	2,926685E+09	2,926680E+09	3,516603E+09	3,516634E+09	5,853365E+09	7,033237E+09	1,288660E+10
2243	2,926631E+09	2,926662E+09	3,516630E+09	3,516633E+09	5,853293E+09	7,033263E+09	1,288656E+10

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	2,926713E+09	2,926733E+09	3,516640E+09	3,516647E+09	5,853446E+09	7,033287E+09	1,288673E+10
2245	2,926629E+09	2,926556E+09	3,516593E+09	3,516600E+09	5,853185E+09	7,033193E+09	1,288638E+10
2246	2,926634E+09	2,926643E+09	3,516647E+09	3,516590E+09	5,853277E+09	7,033237E+09	1,288651E+10
2247	2,926684E+09	2,926660E+09	3,516599E+09	3,516604E+09	5,853344E+09	7,033203E+09	1,288655E+10
2248	2,926581E+09	2,926567E+09	3,516565E+09	3,516617E+09	5,853148E+09	7,033182E+09	1,288633E+10
2249	2,926622E+09	2,926723E+09	3,516648E+09	3,516621E+09	5,853345E+09	7,033268E+09	1,288661E+10
2250	2,926639E+09	2,926649E+09	3,516608E+09	3,516593E+09	5,853288E+09	7,033202E+09	1,288649E+10
2251	2,926612E+09	2,926612E+09	3,516641E+09	3,516603E+09	5,853223E+09	7,033244E+09	1,288647E+10
2252	2,926738E+09	2,926750E+09	3,516664E+09	3,516645E+09	5,853487E+09	7,033309E+09	1,288680E+10
2253	2,926708E+09	2,926649E+09	3,516603E+09	3,516627E+09	5,853356E+09	7,033231E+09	1,288659E+10
2254	2,926706E+09	2,926751E+09	3,516639E+09	3,516638E+09	5,853456E+09	7,033277E+09	1,288673E+10
2255	2,926813E+09	2,926834E+09	3,516618E+09	3,516643E+09	5,853647E+09	7,033261E+09	1,288691E+10
2256	2,926753E+09	2,926721E+09	3,516600E+09	3,516627E+09	5,853474E+09	7,033227E+09	1,288670E+10
2257	2,926788E+09	2,926842E+09	3,516689E+09	3,516619E+09	5,853629E+09	7,033308E+09	1,288694E+10
2258	2,926829E+09	2,926807E+09	3,516640E+09	3,516603E+09	5,853636E+09	7,033243E+09	1,288688E+10
2259	2,926740E+09	2,926722E+09	3,516628E+09	3,516632E+09	5,853462E+09	7,033260E+09	1,288672E+10
2260	2,926787E+09	2,926848E+09	3,516653E+09	3,516669E+09	5,853635E+09	7,033322E+09	1,288696E+10
2261	2,926747E+09	2,926718E+09	3,516603E+09	3,516619E+09	5,853465E+09	7,033223E+09	1,288669E+10
2262	2,926682E+09	2,926701E+09	3,516635E+09	3,516610E+09	5,853384E+09	7,033246E+09	1,288663E+10
2263	2,926777E+09	2,926763E+09	3,516620E+09	3,516611E+09	5,853540E+09	7,033231E+09	1,288677E+10
2264	2,926699E+09	2,926616E+09	3,516573E+09	3,516599E+09	5,853315E+09	7,033171E+09	1,288649E+10
2265	2,926659E+09	2,926714E+09	3,516638E+09	3,516605E+09	5,853373E+09	7,033243E+09	1,288662E+10
2266	2,926714E+09	2,926744E+09	3,516591E+09	3,516591E+09	5,853458E+09	7,033182E+09	1,288664E+10
2267	2,926624E+09	2,926632E+09	3,516590E+09	3,516610E+09	5,853257E+09	7,033200E+09	1,288646E+10
2268	2,926680E+09	2,926756E+09	3,516665E+09	3,516631E+09	5,853436E+09	7,033296E+09	1,288673E+10
2269	2,926728E+09	2,926682E+09	3,516634E+09	3,516589E+09	5,853410E+09	7,033223E+09	1,288663E+10
2270	2,926676E+09	2,926665E+09	3,516643E+09	3,516618E+09	5,853342E+09	7,033261E+09	1,288660E+10
2271	2,926805E+09	2,926815E+09	3,516623E+09	3,516650E+09	5,853620E+09	7,033274E+09	1,288689E+10
2272	2,926784E+09	2,926738E+09	3,516564E+09	3,516637E+09	5,853522E+09	7,033202E+09	1,288672E+10
2273	2,926755E+09	2,926821E+09	3,516640E+09	3,516631E+09	5,853576E+09	7,033271E+09	1,288685E+10
2274	2,926880E+09	2,926898E+09	3,516624E+09	3,516595E+09	5,853778E+09	7,033219E+09	1,288700E+10
2275	2,926821E+09	2,926774E+09	3,516618E+09	3,516603E+09	5,853595E+09	7,033221E+09	1,288682E+10
2276	2,926838E+09	2,926886E+09	3,516683E+09	3,516635E+09	5,853724E+09	7,033318E+09	1,288704E+10
2277	2,926881E+09	2,926865E+09	3,516637E+09	3,516610E+09	5,853746E+09	7,033247E+09	1,288699E+10
2278	2,926763E+09	2,926788E+09	3,516625E+09	3,516643E+09	5,853551E+09	7,033268E+09	1,288682E+10
2279	2,926831E+09	2,926884E+09	3,516636E+09	3,516654E+09	5,853715E+09	7,033290E+09	1,288701E+10
2280	2,926818E+09	2,926760E+09	3,516596E+09	3,516615E+09	5,853577E+09	7,033211E+09	1,288679E+10
2281	2,926731E+09	2,926738E+09	3,516639E+09	3,516611E+09	5,853469E+09	7,033251E+09	1,288672E+10
2282	2,926829E+09	2,926818E+09	3,516606E+09	3,516591E+09	5,853647E+09	7,033197E+09	1,288684E+10
2283	2,926742E+09	2,926692E+09	3,516567E+09	3,516600E+09	5,853434E+09	7,033166E+09	1,288660E+10
2284	2,926693E+09	2,926774E+09	3,516628E+09	3,516620E+09	5,853467E+09	7,033247E+09	1,288671E+10
2285	2,926773E+09	2,926789E+09	3,516619E+09	3,516574E+09	5,853563E+09	7,033193E+09	1,288676E+10
2286	2,926680E+09	2,926677E+09	3,516619E+09	3,516599E+09	5,853356E+09	7,033218E+09	1,288657E+10
2287	2,926755E+09	2,926781E+09	3,516649E+09	3,516622E+09	5,853535E+09	7,033271E+09	1,288681E+10
2288	2,926811E+09	2,926746E+09	3,516605E+09	3,516610E+09	5,853558E+09	7,033215E+09	1,288677E+10
2289	2,926725E+09	2,926747E+09	3,516612E+09	3,516637E+09	5,853472E+09	7,033249E+09	1,288672E+10
2290	2,926857E+09	2,926903E+09	3,516598E+09	3,516626E+09	5,853760E+09	7,033224E+09	1,288698E+10
2291	2,926848E+09	2,926821E+09	3,516580E+09	3,516611E+09	5,853669E+09	7,033191E+09	1,288686E+10
2292	2,926820E+09	2,926872E+09	3,516656E+09	3,516622E+09	5,853692E+09	7,033278E+09	1,288697E+10

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	2,926956E+09	2,926943E+09	3,516658E+09	3,516582E+09	5,853900E+09	7,033240E+09	1,288714E+10
2294	2,926864E+09	2,926834E+09	3,516632E+09	3,516620E+09	5,853698E+09	7,033252E+09	1,288695E+10
2295	2,926877E+09	2,926934E+09	3,516652E+09	3,516655E+09	5,853810E+09	7,033307E+09	1,288712E+10
2296	2,926934E+09	2,926925E+09	3,516609E+09	3,516634E+09	5,853859E+09	7,033243E+09	1,288710E+10
2297	2,926805E+09	2,926825E+09	3,516619E+09	3,516644E+09	5,853630E+09	7,033263E+09	1,288689E+10
2298	2,926896E+09	2,926918E+09	3,516625E+09	3,516610E+09	5,853815E+09	7,033235E+09	1,288705E+10
2299	2,926889E+09	2,926809E+09	3,516592E+09	3,516586E+09	5,853698E+09	7,033178E+09	1,288688E+10
2300	2,926780E+09	2,926791E+09	3,516623E+09	3,516613E+09	5,853571E+09	7,033237E+09	1,288681E+10
2301	2,926875E+09	2,926888E+09	3,516610E+09	3,516581E+09	5,853763E+09	7,033191E+09	1,288695E+10
2302	2,926763E+09	2,926763E+09	3,516586E+09	3,516601E+09	5,853526E+09	7,033187E+09	1,288671E+10
2303	2,926734E+09	2,926810E+09	3,516636E+09	3,516616E+09	5,853544E+09	7,033252E+09	1,288680E+10
2304	2,926843E+09	2,926830E+09	3,516623E+09	3,516587E+09	5,853673E+09	7,033210E+09	1,288688E+10
2305	2,926733E+09	2,926712E+09	3,516619E+09	3,516621E+09	5,853446E+09	7,033240E+09	1,288669E+10
2306	2,926821E+09	2,926839E+09	3,516617E+09	3,516618E+09	5,853660E+09	7,033236E+09	1,288690E+10
2307	2,926877E+09	2,926834E+09	3,516570E+09	3,516614E+09	5,853711E+09	7,033185E+09	1,288690E+10
2308	2,926786E+09	2,926824E+09	3,516591E+09	3,516637E+09	5,853610E+09	7,033229E+09	1,288684E+10
2309	2,926939E+09	2,926967E+09	3,516621E+09	3,516584E+09	5,853906E+09	7,033205E+09	1,288711E+10
2310	2,926911E+09	2,926886E+09	3,516615E+09	3,516581E+09	5,853797E+09	7,033196E+09	1,288699E+10
2311	2,926884E+09	2,926915E+09	3,516656E+09	3,516612E+09	5,853799E+09	7,033269E+09	1,288707E+10
2312	2,927013E+09	2,927010E+09	3,516647E+09	3,516609E+09	5,854024E+09	7,033256E+09	1,288728E+10
2313	2,926889E+09	2,926899E+09	3,516622E+09	3,516655E+09	5,853788E+09	7,033277E+09	1,288707E+10
2314	2,926918E+09	2,926986E+09	3,516634E+09	3,516647E+09	5,853904E+09	7,033281E+09	1,288718E+10
2315	2,926996E+09	2,926975E+09	3,516611E+09	3,516623E+09	5,853971E+09	7,033233E+09	1,288720E+10
2316	2,926873E+09	2,926856E+09	3,516616E+09	3,516636E+09	5,853729E+09	7,033252E+09	1,288698E+10
2317	2,926973E+09	2,926953E+09	3,516637E+09	3,516586E+09	5,853926E+09	7,033224E+09	1,288715E+10
2318	2,926929E+09	2,926879E+09	3,516597E+09	3,516583E+09	5,853808E+09	7,033180E+09	1,288699E+10
2319	2,926813E+09	2,926846E+09	3,516596E+09	3,516617E+09	5,853659E+09	7,033213E+09	1,288687E+10
2320	2,926912E+09	2,926951E+09	3,516605E+09	3,516593E+09	5,853863E+09	7,033199E+09	1,288706E+10
2321	2,926795E+09	2,926801E+09	3,516602E+09	3,516605E+09	5,853597E+09	7,033207E+09	1,288680E+10
2322	2,926792E+09	2,926833E+09	3,516631E+09	3,516592E+09	5,853625E+09	7,033223E+09	1,288685E+10
2323	2,926915E+09	2,926878E+09	3,516610E+09	3,516588E+09	5,853793E+09	7,033198E+09	1,288699E+10
2324	2,926797E+09	2,926774E+09	3,516584E+09	3,516636E+09	5,853571E+09	7,033219E+09	1,288679E+10
2325	2,926892E+09	2,926919E+09	3,516604E+09	3,516604E+09	5,853811E+09	7,033208E+09	1,288702E+10
2326	2,926928E+09	2,926928E+09	3,516584E+09	3,516591E+09	5,853856E+09	7,033175E+09	1,288703E+10
2327	2,926850E+09	2,926879E+09	3,516603E+09	3,516613E+09	5,853730E+09	7,033216E+09	1,288695E+10
2328	2,927010E+09	2,927027E+09	3,516645E+09	3,516584E+09	5,854037E+09	7,033229E+09	1,288727E+10
2329	2,926958E+09	2,926934E+09	3,516638E+09	3,516606E+09	5,853892E+09	7,033244E+09	1,288714E+10
2330	2,926930E+09	2,926968E+09	3,516641E+09	3,516626E+09	5,853898E+09	7,033267E+09	1,288717E+10
2331	2,927064E+09	2,927082E+09	3,516619E+09	3,516636E+09	5,854146E+09	7,033255E+09	1,288740E+10
2332	2,926944E+09	2,926947E+09	3,516601E+09	3,516668E+09	5,853891E+09	7,033269E+09	1,288716E+10
2333	2,927003E+09	2,927021E+09	3,516641E+09	3,516610E+09	5,854024E+09	7,033251E+09	1,288728E+10
2334	2,927064E+09	2,927022E+09	3,516619E+09	3,516586E+09	5,854086E+09	7,033205E+09	1,288729E+10
2335	2,926937E+09	2,926898E+09	3,516596E+09	3,516616E+09	5,853835E+09	7,033212E+09	1,288705E+10
2336	2,927018E+09	2,927028E+09	3,516617E+09	3,516589E+09	5,854046E+09	7,033206E+09	1,288725E+10
2337	2,926935E+09	2,926948E+09	3,516599E+09	3,516598E+09	5,853884E+09	7,033196E+09	1,288708E+10
2338	2,926834E+09	2,926897E+09	3,516600E+09	3,516603E+09	5,853731E+09	7,033204E+09	1,288693E+10
2339	2,926956E+09	2,926993E+09	3,516617E+09	3,516595E+09	5,853949E+09	7,033213E+09	1,288716E+10
2340	2,926854E+09	2,926824E+09	3,516607E+09	3,516621E+09	5,853678E+09	7,033227E+09	1,288691E+10
2341	2,926875E+09	2,926864E+09	3,516630E+09	3,516588E+09	5,853739E+09	7,033218E+09	1,288696E+10

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	2,926973E+09	2,926951E+09	3,516597E+09	3,516589E+09	5,853924E+09	7,033187E+09	1,288711E+10
2343	2,926860E+09	2,926846E+09	3,516547E+09	3,516630E+09	5,853706E+09	7,033177E+09	1,288688E+10
2344	2,926960E+09	2,926999E+09	3,516600E+09	3,516590E+09	5,853958E+09	7,033190E+09	1,288715E+10
2345	2,926981E+09	2,926990E+09	3,516614E+09	3,516576E+09	5,853970E+09	7,033190E+09	1,288716E+10
2346	2,926915E+09	2,926926E+09	3,516615E+09	3,516588E+09	5,853842E+09	7,033202E+09	1,288704E+10
2347	2,927070E+09	2,927093E+09	3,516644E+09	3,516602E+09	5,854163E+09	7,033245E+09	1,288741E+10
2348	2,927008E+09	2,926998E+09	3,516622E+09	3,516644E+09	5,854006E+09	7,033265E+09	1,288727E+10
2349	2,926994E+09	2,927027E+09	3,516634E+09	3,516632E+09	5,854021E+09	7,033266E+09	1,288729E+10
2350	2,927118E+09	2,927150E+09	3,516629E+09	3,516625E+09	5,854268E+09	7,033254E+09	1,288752E+10
2351	2,927020E+09	2,926984E+09	3,516588E+09	3,516644E+09	5,854004E+09	7,033232E+09	1,288724E+10
2352	2,927078E+09	2,927068E+09	3,516639E+09	3,516596E+09	5,854146E+09	7,033235E+09	1,288738E+10
2353	2,927104E+09	2,927076E+09	3,516623E+09	3,516587E+09	5,854180E+09	7,033210E+09	1,288739E+10
2354	2,926965E+09	2,926955E+09	3,516573E+09	3,516609E+09	5,853920E+09	7,033182E+09	1,288710E+10
2355	2,927040E+09	2,927100E+09	3,516603E+09	3,516603E+09	5,854140E+09	7,033206E+09	1,288735E+10
2356	2,926968E+09	2,926986E+09	3,516603E+09	3,516606E+09	5,853954E+09	7,033209E+09	1,288716E+10
2357	2,926903E+09	2,926913E+09	3,516621E+09	3,516578E+09	5,853816E+09	7,033199E+09	1,288701E+10
2358	2,927019E+09	2,927028E+09	3,516629E+09	3,516576E+09	5,854047E+09	7,033206E+09	1,288725E+10
2359	2,926926E+09	2,926861E+09	3,516574E+09	3,516617E+09	5,853787E+09	7,033191E+09	1,288698E+10
2360	2,926939E+09	2,926942E+09	3,516599E+09	3,516594E+09	5,853880E+09	7,033193E+09	1,288707E+10
2361	2,927009E+09	2,927034E+09	3,516592E+09	3,516593E+09	5,854043E+09	7,033185E+09	1,288723E+10
2362	2,926909E+09	2,926915E+09	3,516551E+09	3,516602E+09	5,853824E+09	7,033154E+09	1,288698E+10
2363	2,927020E+09	2,927069E+09	3,516618E+09	3,516583E+09	5,854089E+09	7,033201E+09	1,288729E+10
2364	2,927044E+09	2,927036E+09	3,516636E+09	3,516593E+09	5,854080E+09	7,033229E+09	1,288731E+10
2365	2,926993E+09	2,926975E+09	3,516628E+09	3,516598E+09	5,853968E+09	7,033226E+09	1,288719E+10
2366	2,927120E+09	2,927167E+09	3,516636E+09	3,516619E+09	5,854288E+09	7,033255E+09	1,288754E+10
2367	2,927070E+09	2,927059E+09	3,516586E+09	3,516657E+09	5,854129E+09	7,033242E+09	1,288737E+10
2368	2,927071E+09	2,927087E+09	3,516618E+09	3,516619E+09	5,854158E+09	7,033237E+09	1,288740E+10
2369	2,927177E+09	2,927192E+09	3,516637E+09	3,516600E+09	5,854369E+09	7,033237E+09	1,288761E+10
2370	2,927084E+09	2,927029E+09	3,516577E+09	3,516602E+09	5,854113E+09	7,033179E+09	1,288729E+10
2371	2,927128E+09	2,927138E+09	3,516619E+09	3,516591E+09	5,854266E+09	7,033210E+09	1,288748E+10
2372	2,927132E+09	2,927142E+09	3,516615E+09	3,516602E+09	5,854273E+09	7,033217E+09	1,288749E+10
2373	2,927004E+09	2,927009E+09	3,516585E+09	3,516601E+09	5,854014E+09	7,033186E+09	1,288720E+10
2374	2,927068E+09	2,927148E+09	3,516632E+09	3,516591E+09	5,854216E+09	7,033223E+09	1,288744E+10
2375	2,927027E+09	2,927003E+09	3,516606E+09	3,516605E+09	5,854030E+09	7,033211E+09	1,288724E+10
2376	2,926975E+09	2,926941E+09	3,516619E+09	3,516585E+09	5,853916E+09	7,033203E+09	1,288712E+10
2377	2,927067E+09	2,927072E+09	3,516622E+09	3,516594E+09	5,854138E+09	7,033216E+09	1,288735E+10
2378	2,926975E+09	2,926930E+09	3,516532E+09	3,516611E+09	5,853905E+09	7,033143E+09	1,288705E+10
2379	2,926989E+09	2,927033E+09	3,516570E+09	3,516597E+09	5,854021E+09	7,033166E+09	1,288719E+10
2380	2,927068E+09	2,927097E+09	3,516602E+09	3,516584E+09	5,854165E+09	7,033186E+09	1,288735E+10
2381	2,926993E+09	2,926960E+09	3,516581E+09	3,516570E+09	5,853952E+09	7,033151E+09	1,288710E+10
2382	2,927082E+09	2,927132E+09	3,516645E+09	3,516569E+09	5,854214E+09	7,033214E+09	1,288743E+10
2383	2,927112E+09	2,927092E+09	3,516615E+09	3,516606E+09	5,854204E+09	7,033222E+09	1,288743E+10
2384	2,927052E+09	2,927050E+09	3,516608E+09	3,516617E+09	5,854101E+09	7,033225E+09	1,288733E+10
2385	2,927161E+09	2,927236E+09	3,516636E+09	3,516629E+09	5,854397E+09	7,033265E+09	1,288766E+10
2386	2,927130E+09	2,927111E+09	3,516574E+09	3,516629E+09	5,854241E+09	7,033203E+09	1,288744E+10
2387	2,927143E+09	2,927147E+09	3,516610E+09	3,516608E+09	5,854290E+09	7,033219E+09	1,288751E+10
2388	2,927244E+09	2,927234E+09	3,516641E+09	3,516600E+09	5,854478E+09	7,033241E+09	1,288772E+10
2389	2,927149E+09	2,927081E+09	3,516580E+09	3,516591E+09	5,854230E+09	7,033170E+09	1,288740E+10
2390	2,927154E+09	2,927216E+09	3,516621E+09	3,516587E+09	5,854370E+09	7,033208E+09	1,288758E+10

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							
2391	2,927168E+09	2,927191E+09	3,516601E+09	3,516608E+09	5,854359E+09	7,033209E+09	1,288757E+10
2392	2,927057E+09	2,927044E+09	3,516597E+09	3,516594E+09	5,854101E+09	7,033191E+09	1,288729E+10
2393	2,927112E+09	2,927167E+09	3,516650E+09	3,516588E+09	5,854280E+09	7,033237E+09	1,288752E+10
2394	2,927084E+09	2,927032E+09	3,516583E+09	3,516591E+09	5,854116E+09	7,033174E+09	1,288729E+10
2395	2,927031E+09	2,927012E+09	3,516572E+09	3,516599E+09	5,854043E+09	7,033171E+09	1,288721E+10
2396	2,927112E+09	2,927142E+09	3,516599E+09	3,516608E+09	5,854254E+09	7,033207E+09	1,288746E+10
2397	2,927038E+09	2,927006E+09	3,516537E+09	3,516586E+09	5,854044E+09	7,033123E+09	1,288717E+10
2398	2,927040E+09	2,927107E+09	3,516601E+09	3,516560E+09	5,854147E+09	7,033161E+09	1,288731E+10
2399	2,927137E+09	2,927142E+09	3,516617E+09	3,516575E+09	5,854279E+09	7,033192E+09	1,288747E+10
2400	2,927066E+09	2,927011E+09	3,516598E+09	3,516576E+09	5,854077E+09	7,033174E+09	1,288725E+10
2401	2,927122E+09	2,927184E+09	3,516650E+09	3,516598E+09	5,854306E+09	7,033249E+09	1,288756E+10
2402	2,927157E+09	2,927158E+09	3,516582E+09	3,516619E+09	5,854315E+09	7,033201E+09	1,288752E+10
2403	2,927115E+09	2,927128E+09	3,516571E+09	3,516630E+09	5,854243E+09	7,033201E+09	1,288744E+10
2404	2,927235E+09	2,927280E+09	3,516638E+09	3,516619E+09	5,854515E+09	7,033257E+09	1,288777E+10
2405	2,927225E+09	2,927158E+09	3,516580E+09	3,516584E+09	5,854383E+09	7,033164E+09	1,288755E+10
2406	2,927207E+09	2,927216E+09	3,516617E+09	3,516575E+09	5,854423E+09	7,033192E+09	1,288762E+10
2407	2,927297E+09	2,927298E+09	3,516621E+09	3,516602E+09	5,854595E+09	7,033223E+09	1,288782E+10
2408	2,927187E+09	2,927154E+09	3,516579E+09	3,516599E+09	5,854341E+09	7,033178E+09	1,288752E+10
2409	2,927165E+09	2,927269E+09	3,516645E+09	3,516599E+09	5,854434E+09	7,033244E+09	1,288768E+10
2410	2,927202E+09	2,927221E+09	3,516604E+09	3,516598E+09	5,854423E+09	7,033202E+09	1,288763E+10
2411	2,927113E+09	2,927081E+09	3,516585E+09	3,516609E+09	5,854194E+09	7,033194E+09	1,288739E+10
2412	2,927174E+09	2,927188E+09	3,516644E+09	3,516608E+09	5,854362E+09	7,033252E+09	1,288761E+10
2413	2,927154E+09	2,927081E+09	3,516558E+09	3,516585E+09	5,854235E+09	7,033143E+09	1,288738E+10
2414	2,927076E+09	2,927100E+09	3,516554E+09	3,516584E+09	5,854176E+09	7,033138E+09	1,288731E+10
2415	2,927171E+09	2,927205E+09	3,516579E+09	3,516590E+09	5,854376E+09	7,033168E+09	1,288754E+10
2416	2,927105E+09	2,927059E+09	3,516561E+09	3,516553E+09	5,854164E+09	7,033114E+09	1,288728E+10
2417	2,927088E+09	2,927150E+09	3,516637E+09	3,516546E+09	5,854237E+09	7,033184E+09	1,288742E+10
2418	2,927186E+09	2,927189E+09	3,516608E+09	3,516570E+09	5,854374E+09	7,033178E+09	1,288755E+10
2419	2,927117E+09	2,927090E+09	3,516565E+09	3,516611E+09	5,854207E+09	7,033176E+09	1,288738E+10
2420	2,927173E+09	2,927246E+09	3,516636E+09	3,516629E+09	5,854419E+09	7,033265E+09	1,288768E+10
2421	2,927232E+09	2,927222E+09	3,516577E+09	3,516605E+09	5,854455E+09	7,033182E+09	1,288764E+10
2422	2,927188E+09	2,927201E+09	3,516583E+09	3,516598E+09	5,854389E+09	7,033180E+09	1,288757E+10
2423	2,927321E+09	2,927326E+09	3,516633E+09	3,516605E+09	5,854648E+09	7,033238E+09	1,288789E+10
2424	2,927301E+09	2,927219E+09	3,516592E+09	3,516575E+09	5,854520E+09	7,033167E+09	1,288769E+10
2425	2,927237E+09	2,927284E+09	3,516626E+09	3,516589E+09	5,854521E+09	7,033215E+09	1,288774E+10
2426	2,927317E+09	2,927366E+09	3,516600E+09	3,516609E+09	5,854683E+09	7,033208E+09	1,288789E+10
2427	2,927225E+09	2,927218E+09	3,516564E+09	3,516618E+09	5,854442E+09	7,033181E+09	1,288762E+10
2428	2,927216E+09	2,927280E+09	3,516662E+09	3,516605E+09	5,854496E+09	7,033267E+09	1,288776E+10
2429	2,927279E+09	2,927243E+09	3,516605E+09	3,516577E+09	5,854521E+09	7,033182E+09	1,288770E+10
2430	2,927175E+09	2,927134E+09	3,516566E+09	3,516587E+09	5,854309E+09	7,033153E+09	1,288746E+10
2431	2,927232E+09	2,927242E+09	3,516602E+09	3,516609E+09	5,854474E+09	7,033211E+09	1,288768E+10
2432	2,927206E+09	2,927159E+09	3,516548E+09	3,516567E+09	5,854364E+09	7,033116E+09	1,288748E+10
2433	2,927103E+09	2,927162E+09	3,516579E+09	3,516566E+09	5,854265E+09	7,033145E+09	1,288741E+10
2434	2,927209E+09	2,927253E+09	3,516593E+09	3,516565E+09	5,854461E+09	7,033158E+09	1,288762E+10
2435	2,927163E+09	2,927114E+09	3,516563E+09	3,516571E+09	5,854277E+09	7,033134E+09	1,288741E+10
2436	2,927140E+09	2,927181E+09	3,516650E+09	3,516583E+09	5,854321E+09	7,033233E+09	1,288755E+10
2437	2,927248E+09	2,927249E+09	3,516590E+09	3,516587E+09	5,854497E+09	7,033177E+09	1,288767E+10
2438	2,927172E+09	2,927177E+09	3,516544E+09	3,516613E+09	5,854349E+09	7,033156E+09	1,288751E+10
2439	2,927254E+09	2,927300E+09	3,516614E+09	3,516625E+09	5,854555E+09	7,033239E+09	1,288779E+10

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	2,927328E+09	2,927277E+09	3,516588E+09	3,516570E+09	5,854605E+09	7,033158E+09	1,288776E+10
2441	2,927256E+09	2,927258E+09	3,516602E+09	3,516575E+09	5,854514E+09	7,033177E+09	1,288769E+10
2442	2,927373E+09	2,927392E+09	3,516616E+09	3,516590E+09	5,854765E+09	7,033205E+09	1,288797E+10
2443	2,927342E+09	2,927311E+09	3,516568E+09	3,516600E+09	5,854652E+09	7,033168E+09	1,288782E+10
2444	2,927266E+09	2,927341E+09	3,516639E+09	3,516615E+09	5,854607E+09	7,033254E+09	1,288786E+10
2445	2,927364E+09	2,927408E+09	3,516611E+09	3,516599E+09	5,854772E+09	7,033210E+09	1,288798E+10
2446	2,927278E+09	2,927260E+09	3,516581E+09	3,516601E+09	5,854538E+09	7,033181E+09	1,288772E+10
2447	2,927291E+09	2,927292E+09	3,516646E+09	3,516608E+09	5,854584E+09	7,033254E+09	1,288784E+10
2448	2,927348E+09	2,927275E+09	3,516594E+09	3,516570E+09	5,854623E+09	7,033165E+09	1,288779E+10
2449	2,927209E+09	2,927197E+09	3,516552E+09	3,516588E+09	5,854406E+09	7,033140E+09	1,288755E+10
2450	2,927261E+09	2,927309E+09	3,516565E+09	3,516592E+09	5,854570E+09	7,033157E+09	1,288773E+10
2451	2,927251E+09	2,927232E+09	3,516538E+09	3,516561E+09	5,854483E+09	7,033098E+09	1,288758E+10
2452	2,927155E+09	2,927191E+09	3,516611E+09	3,516559E+09	5,854346E+09	7,033170E+09	1,288752E+10
2453	2,927270E+09	2,927293E+09	3,516604E+09	3,516550E+09	5,854563E+09	7,033154E+09	1,288772E+10
2454	2,927215E+09	2,927185E+09	3,516561E+09	3,516573E+09	5,854400E+09	7,033134E+09	1,288753E+10
2455	2,927200E+09	2,927237E+09	3,516619E+09	3,516612E+09	5,854438E+09	7,033231E+09	1,288767E+10
2456	2,927315E+09	2,927319E+09	3,516587E+09	3,516587E+09	5,854635E+09	7,033175E+09	1,288781E+10
2457	2,927231E+09	2,927244E+09	3,516560E+09	3,516600E+09	5,854475E+09	7,033160E+09	1,288763E+10
2458	2,927323E+09	2,927356E+09	3,516608E+09	3,516599E+09	5,854679E+09	7,033207E+09	1,288789E+10
2459	2,927407E+09	2,927352E+09	3,516580E+09	3,516574E+09	5,854759E+09	7,033154E+09	1,288791E+10
2460	2,927314E+09	2,927308E+09	3,516616E+09	3,516595E+09	5,854622E+09	7,033212E+09	1,288783E+10
2461	2,927420E+09	2,927467E+09	3,516607E+09	3,516594E+09	5,854886E+09	7,033202E+09	1,288809E+10
2462	2,927382E+09	2,927392E+09	3,516565E+09	3,516594E+09	5,854774E+09	7,033159E+09	1,288793E+10
2463	2,927325E+09	2,927366E+09	3,516636E+09	3,516616E+09	5,854691E+09	7,033252E+09	1,288794E+10
2464	2,927439E+09	2,927430E+09	3,516627E+09	3,516574E+09	5,854869E+09	7,033201E+09	1,288807E+10
2465	2,927332E+09	2,927291E+09	3,516581E+09	3,516588E+09	5,854623E+09	7,033169E+09	1,288779E+10
2466	2,927335E+09	2,927339E+09	3,516602E+09	3,516599E+09	5,854674E+09	7,033201E+09	1,288787E+10
2467	2,927390E+09	2,927360E+09	3,516549E+09	3,516582E+09	5,854750E+09	7,033131E+09	1,288788E+10
2468	2,927240E+09	2,927253E+09	3,516560E+09	3,516591E+09	5,854494E+09	7,033152E+09	1,288765E+10
2469	2,927302E+09	2,927366E+09	3,516582E+09	3,516562E+09	5,854668E+09	7,033144E+09	1,288781E+10
2470	2,927301E+09	2,927289E+09	3,516567E+09	3,516539E+09	5,854590E+09	7,033107E+09	1,288770E+10
2471	2,927219E+09	2,927214E+09	3,516620E+09	3,516578E+09	5,854433E+09	7,033198E+09	1,288763E+10
2472	2,927334E+09	2,927334E+09	3,516610E+09	3,516565E+09	5,854668E+09	7,033175E+09	1,288784E+10
2473	2,927256E+09	2,927253E+09	3,516551E+09	3,516597E+09	5,854509E+09	7,033148E+09	1,288766E+10
2474	2,927254E+09	2,927301E+09	3,516579E+09	3,516611E+09	5,854555E+09	7,033190E+09	1,288774E+10
2475	2,927395E+09	2,927389E+09	3,516569E+09	3,516582E+09	5,854784E+09	7,033151E+09	1,288793E+10
2476	2,927316E+09	2,927288E+09	3,516582E+09	3,516583E+09	5,854603E+09	7,033165E+09	1,288777E+10
2477	2,927403E+09	2,927419E+09	3,516603E+09	3,516566E+09	5,854822E+09	7,033169E+09	1,288799E+10
2478	2,927462E+09	2,927445E+09	3,516578E+09	3,516561E+09	5,854908E+09	7,033139E+09	1,288805E+10
2479	2,927364E+09	2,927376E+09	3,516602E+09	3,516614E+09	5,854740E+09	7,033216E+09	1,288796E+10
2480	2,927465E+09	2,927524E+09	3,516624E+09	3,516590E+09	5,854988E+09	7,033214E+09	1,288820E+10
2481	2,927421E+09	2,927438E+09	3,516594E+09	3,516593E+09	5,854859E+09	7,033187E+09	1,288805E+10
2482	2,927380E+09	2,927390E+09	3,516621E+09	3,516609E+09	5,854770E+09	7,033229E+09	1,288800E+10
2483	2,927506E+09	2,927474E+09	3,516602E+09	3,516590E+09	5,854980E+09	7,033192E+09	1,288817E+10
2484	2,927384E+09	2,927331E+09	3,516570E+09	3,516603E+09	5,854714E+09	7,033174E+09	1,288789E+10
2485	2,927376E+09	2,927411E+09	3,516565E+09	3,516586E+09	5,854787E+09	7,033152E+09	1,288794E+10
2486	2,927429E+09	2,927444E+09	3,516544E+09	3,516555E+09	5,854873E+09	7,033099E+09	1,288797E+10
2487	2,927299E+09	2,927286E+09	3,516573E+09	3,516577E+09	5,854585E+09	7,033150E+09	1,288774E+10
2488	2,927365E+09	2,927394E+09	3,516618E+09	3,516535E+09	5,854759E+09	7,033153E+09	1,288791E+10

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							
2489	2,927345E+09	2,927333E+09	3,516588E+09	3,516541E+09	5,854679E+09	7,033130E+09	1,288781E+10
2490	2,927259E+09	2,927262E+09	3,516586E+09	3,516594E+09	5,854522E+09	7,033180E+09	1,288770E+10
2491	2,927386E+09	2,927413E+09	3,516574E+09	3,516596E+09	5,854799E+09	7,033170E+09	1,288797E+10
2492	2,927313E+09	2,927305E+09	3,516555E+09	3,516606E+09	5,854618E+09	7,033161E+09	1,288778E+10
2493	2,927328E+09	2,927365E+09	3,516576E+09	3,516581E+09	5,854693E+09	7,033157E+09	1,288785E+10
2494	2,927477E+09	2,927465E+09	3,516577E+09	3,516548E+09	5,854943E+09	7,033125E+09	1,288807E+10
2495	2,927396E+09	2,927334E+09	3,516583E+09	3,516586E+09	5,854731E+09	7,033169E+09	1,288790E+10
2496	2,927464E+09	2,927487E+09	3,516615E+09	3,516563E+09	5,854952E+09	7,033178E+09	1,288813E+10
2497	2,927493E+09	2,927529E+09	3,516583E+09	3,516575E+09	5,855022E+09	7,033158E+09	1,288818E+10
2498	2,927402E+09	2,927430E+09	3,516584E+09	3,516618E+09	5,854833E+09	7,033202E+09	1,288803E+10
2499	2,927529E+09	2,927571E+09	3,516617E+09	3,516595E+09	5,855100E+09	7,033211E+09	1,288831E+10
2500	2,927489E+09	2,927456E+09	3,516607E+09	3,516593E+09	5,854946E+09	7,033200E+09	1,288815E+10
2501	2,927446E+09	2,927437E+09	3,516590E+09	3,516591E+09	5,854883E+09	7,033180E+09	1,288806E+10
2502	2,927558E+09	2,927553E+09	3,516574E+09	3,516576E+09	5,855111E+09	7,033150E+09	1,288826E+10
2503	2,927431E+09	2,927392E+09	3,516551E+09	3,516605E+09	5,854823E+09	7,033156E+09	1,288798E+10
2504	2,927421E+09	2,927467E+09	3,516589E+09	3,516554E+09	5,854888E+09	7,033143E+09	1,288803E+10
2505	2,927462E+09	2,927496E+09	3,516586E+09	3,516537E+09	5,854958E+09	7,033123E+09	1,288808E+10
2506	2,927343E+09	2,927312E+09	3,516577E+09	3,516576E+09	5,854656E+09	7,033153E+09	1,288781E+10
2507	2,927417E+09	2,927433E+09	3,516611E+09	3,516566E+09	5,854850E+09	7,033177E+09	1,288803E+10
2508	2,927390E+09	2,927373E+09	3,516586E+09	3,516581E+09	5,854763E+09	7,033167E+09	1,288793E+10
2509	2,927310E+09	2,927332E+09	3,516538E+09	3,516596E+09	5,854643E+09	7,033134E+09	1,288778E+10
2510	2,927452E+09	2,927489E+09	3,516558E+09	3,516573E+09	5,854941E+09	7,033131E+09	1,288807E+10
2511	2,927403E+09	2,927351E+09	3,516553E+09	3,516581E+09	5,854754E+09	7,033134E+09	1,288789E+10
2512	2,927417E+09	2,927417E+09	3,516591E+09	3,516536E+09	5,854834E+09	7,033127E+09	1,288796E+10
2513	2,927534E+09	2,927545E+09	3,516592E+09	3,516536E+09	5,855078E+09	7,033127E+09	1,288821E+10
2514	2,927438E+09	2,927413E+09	3,516558E+09	3,516595E+09	5,854851E+09	7,033153E+09	1,288800E+10
2515	2,927503E+09	2,927575E+09	3,516604E+09	3,516589E+09	5,855078E+09	7,033193E+09	1,288827E+10
2516	2,927535E+09	2,927577E+09	3,516612E+09	3,516593E+09	5,855112E+09	7,033205E+09	1,288832E+10
2517	2,927462E+09	2,927476E+09	3,516582E+09	3,516606E+09	5,854938E+09	7,033188E+09	1,288813E+10
2518	2,927604E+09	2,927618E+09	3,516619E+09	3,516583E+09	5,855222E+09	7,033202E+09	1,288842E+10
2519	2,927568E+09	2,927487E+09	3,516590E+09	3,516604E+09	5,855055E+09	7,033194E+09	1,288825E+10
2520	2,927508E+09	2,927496E+09	3,516576E+09	3,516578E+09	5,855004E+09	7,033154E+09	1,288816E+10
2521	2,927590E+09	2,927633E+09	3,516569E+09	3,516566E+09	5,855224E+09	7,033135E+09	1,288836E+10
2522	2,927467E+09	2,927442E+09	3,516541E+09	3,516587E+09	5,854909E+09	7,033127E+09	1,288804E+10
2523	2,927472E+09	2,927512E+09	3,516603E+09	3,516545E+09	5,854984E+09	7,033147E+09	1,288813E+10
2524	2,927509E+09	2,927513E+09	3,516613E+09	3,516542E+09	5,855022E+09	7,033155E+09	1,288818E+10
2525	2,927386E+09	2,927359E+09	3,516552E+09	3,516579E+09	5,854745E+09	7,033131E+09	1,288788E+10
2526	2,927463E+09	2,927504E+09	3,516581E+09	3,516573E+09	5,854967E+09	7,033155E+09	1,288812E+10
2527	2,927445E+09	2,927423E+09	3,516560E+09	3,516596E+09	5,854868E+09	7,033155E+09	1,288802E+10
2528	2,927380E+09	2,927391E+09	3,516545E+09	3,516565E+09	5,854771E+09	7,033110E+09	1,288788E+10
2529	2,927517E+09	2,927554E+09	3,516579E+09	3,516545E+09	5,855071E+09	7,033124E+09	1,288820E+10
2530	2,927471E+09	2,927405E+09	3,516548E+09	3,516566E+09	5,854876E+09	7,033114E+09	1,288799E+10
2531	2,927481E+09	2,927490E+09	3,516589E+09	3,516548E+09	5,854971E+09	7,033137E+09	1,288811E+10
2532	2,927573E+09	2,927611E+09	3,516602E+09	3,516567E+09	5,855184E+09	7,033169E+09	1,288835E+10
2533	2,927477E+09	2,927493E+09	3,516537E+09	3,516602E+09	5,854970E+09	7,033139E+09	1,288811E+10
2534	2,927564E+09	2,927636E+09	3,516609E+09	3,516582E+09	5,855200E+09	7,033191E+09	1,288839E+10
2535	2,927620E+09	2,927600E+09	3,516619E+09	3,516592E+09	5,855219E+09	7,033211E+09	1,288843E+10
2536	2,927555E+09	2,927511E+09	3,516582E+09	3,516578E+09	5,855066E+09	7,033160E+09	1,288823E+10
2537	2,927664E+09	2,927683E+09	3,516609E+09	3,516574E+09	5,855346E+09	7,033184E+09	1,288853E+10

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							
2538	2,927612E+09	2,927559E+09	3,516548E+09	3,516600E+09	5,855171E+09	7,033148E+09	1,288832E+10
2539	2,927548E+09	2,927574E+09	3,516562E+09	3,516576E+09	5,855122E+09	7,033138E+09	1,288826E+10
2540	2,927620E+09	2,927679E+09	3,516604E+09	3,516565E+09	5,855299E+09	7,033169E+09	1,288847E+10
2541	2,927507E+09	2,927487E+09	3,516544E+09	3,516568E+09	5,854994E+09	7,033112E+09	1,288811E+10
2542	2,927519E+09	2,927548E+09	3,516613E+09	3,516545E+09	5,855067E+09	7,033158E+09	1,288823E+10
2543	2,927561E+09	2,927537E+09	3,516605E+09	3,516573E+09	5,855097E+09	7,033178E+09	1,288828E+10
2544	2,927440E+09	2,927409E+09	3,516528E+09	3,516582E+09	5,854850E+09	7,033110E+09	1,288796E+10
2545	2,927508E+09	2,927573E+09	3,516568E+09	3,516570E+09	5,855081E+09	7,033138E+09	1,288822E+10
2546	2,927509E+09	2,927475E+09	3,516536E+09	3,516571E+09	5,854984E+09	7,033107E+09	1,288809E+10
2547	2,927461E+09	2,927449E+09	3,516548E+09	3,516538E+09	5,854910E+09	7,033085E+09	1,288799E+10
2548	2,927580E+09	2,927604E+09	3,516603E+09	3,516537E+09	5,855184E+09	7,033139E+09	1,288832E+10
2549	2,927519E+09	2,927486E+09	3,516530E+09	3,516560E+09	5,855005E+09	7,033090E+09	1,288810E+10
2550	2,927524E+09	2,927580E+09	3,516586E+09	3,516559E+09	5,855104E+09	7,033145E+09	1,288825E+10
2551	2,927622E+09	2,927668E+09	3,516609E+09	3,516592E+09	5,855290E+09	7,033201E+09	1,288849E+10
2552	2,927548E+09	2,927543E+09	3,516559E+09	3,516591E+09	5,855091E+09	7,033150E+09	1,288824E+10
2553	2,927636E+09	2,927685E+09	3,516629E+09	3,516576E+09	5,855320E+09	7,033205E+09	1,288853E+10
2554	2,927697E+09	2,927636E+09	3,516596E+09	3,516595E+09	5,855333E+09	7,033191E+09	1,288852E+10
2555	2,927628E+09	2,927578E+09	3,516557E+09	3,516589E+09	5,855206E+09	7,033146E+09	1,288835E+10
2556	2,927705E+09	2,927748E+09	3,516596E+09	3,516587E+09	5,855453E+09	7,033183E+09	1,288864E+10
2557	2,927642E+09	2,927639E+09	3,516520E+09	3,516581E+09	5,855281E+09	7,033101E+09	1,288838E+10
2558	2,927594E+09	2,927632E+09	3,516575E+09	3,516548E+09	5,855226E+09	7,033123E+09	1,288835E+10
2559	2,927672E+09	2,927693E+09	3,516622E+09	3,516558E+09	5,855366E+09	7,033181E+09	1,288855E+10
2560	2,927567E+09	2,927514E+09	3,516555E+09	3,516554E+09	5,855081E+09	7,033108E+09	1,288819E+10
2561	2,927558E+09	2,927597E+09	3,516606E+09	3,516554E+09	5,855155E+09	7,033160E+09	1,288831E+10
2562	2,927598E+09	2,927588E+09	3,516563E+09	3,516586E+09	5,855186E+09	7,033149E+09	1,288833E+10
2563	2,927494E+09	2,927476E+09	3,516510E+09	3,516578E+09	5,854970E+09	7,033088E+09	1,288806E+10
2564	2,927560E+09	2,927617E+09	3,516587E+09	3,516561E+09	5,855177E+09	7,033148E+09	1,288832E+10
2565	2,927569E+09	2,927537E+09	3,516531E+09	3,516542E+09	5,855106E+09	7,033072E+09	1,288818E+10
2566	2,927529E+09	2,927511E+09	3,516559E+09	3,516530E+09	5,855040E+09	7,033088E+09	1,288813E+10
2567	2,927634E+09	2,927657E+09	3,516608E+09	3,516563E+09	5,855291E+09	7,033170E+09	1,288846E+10
2568	2,927575E+09	2,927561E+09	3,516528E+09	3,516567E+09	5,855137E+09	7,033095E+09	1,288823E+10
2569	2,927571E+09	2,927652E+09	3,516596E+09	3,516568E+09	5,855223E+09	7,033164E+09	1,288839E+10
2570	2,927692E+09	2,927710E+09	3,516600E+09	3,516589E+09	5,855402E+09	7,033189E+09	1,288859E+10
2571	2,927641E+09	2,927589E+09	3,516553E+09	3,516580E+09	5,855229E+09	7,033133E+09	1,288836E+10
2572	2,927708E+09	2,927730E+09	3,516627E+09	3,516581E+09	5,855437E+09	7,033208E+09	1,288865E+10
2573	2,927750E+09	2,927721E+09	3,516547E+09	3,516580E+09	5,855472E+09	7,033127E+09	1,288860E+10
2574	2,927673E+09	2,927668E+09	3,516537E+09	3,516578E+09	5,855340E+09	7,033115E+09	1,288846E+10
2575	2,927742E+09	2,927804E+09	3,516609E+09	3,516584E+09	5,855546E+09	7,033193E+09	1,288874E+10
2576	2,927695E+09	2,927684E+09	3,516552E+09	3,516550E+09	5,855379E+09	7,033102E+09	1,288848E+10
2577	2,927637E+09	2,927667E+09	3,516611E+09	3,516540E+09	5,855304E+09	7,033151E+09	1,288846E+10
2578	2,927719E+09	2,927712E+09	3,516611E+09	3,516574E+09	5,855431E+09	7,033185E+09	1,288862E+10
2579	2,927618E+09	2,927558E+09	3,516533E+09	3,516577E+09	5,855176E+09	7,033110E+09	1,288829E+10
2580	2,927592E+09	2,927644E+09	3,516587E+09	3,516581E+09	5,855235E+09	7,033168E+09	1,288840E+10
2581	2,927640E+09	2,927651E+09	3,516525E+09	3,516567E+09	5,855291E+09	7,033092E+09	1,288838E+10
2582	2,927564E+09	2,927533E+09	3,516512E+09	3,516545E+09	5,855097E+09	7,033058E+09	1,288815E+10
2583	2,927632E+09	2,927651E+09	3,516600E+09	3,516544E+09	5,855284E+09	7,033144E+09	1,288843E+10
2584	2,927641E+09	2,927598E+09	3,516539E+09	3,516519E+09	5,855239E+09	7,033058E+09	1,288830E+10
2585	2,927572E+09	2,927594E+09	3,516567E+09	3,516536E+09	5,855166E+09	7,033103E+09	1,288827E+10
2586	2,927671E+09	2,927724E+09	3,516589E+09	3,516585E+09	5,855395E+09	7,033174E+09	1,288857E+10

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	2,927635E+09	2,927631E+09	3,516537E+09	3,516579E+09	5,855266E+09	7,033116E+09	1,288838E+10
2588	2,927633E+09	2,927691E+09	3,516616E+09	3,516578E+09	5,855325E+09	7,033194E+09	1,288852E+10
2589	2,927761E+09	2,927761E+09	3,516581E+09	3,516577E+09	5,855522E+09	7,033158E+09	1,288868E+10
2590	2,927724E+09	2,927653E+09	3,516538E+09	3,516576E+09	5,855376E+09	7,033114E+09	1,288849E+10
2591	2,927770E+09	2,927786E+09	3,516606E+09	3,516593E+09	5,855556E+09	7,033199E+09	1,288875E+10
2592	2,927807E+09	2,927803E+09	3,516534E+09	3,516561E+09	5,855610E+09	7,033095E+09	1,288871E+10
2593	2,927716E+09	2,927739E+09	3,516556E+09	3,516555E+09	5,855455E+09	7,033111E+09	1,288857E+10
2594	2,927791E+09	2,927833E+09	3,516618E+09	3,516566E+09	5,855624E+09	7,033183E+09	1,288881E+10
2595	2,927759E+09	2,927717E+09	3,516568E+09	3,516541E+09	5,855475E+09	7,033108E+09	1,288858E+10
2596	2,927676E+09	2,927691E+09	3,516615E+09	3,516563E+09	5,855368E+09	7,033178E+09	1,288855E+10
2597	2,927746E+09	2,927769E+09	3,516565E+09	3,516582E+09	5,855515E+09	7,033147E+09	1,288866E+10
2598	2,927662E+09	2,927626E+09	3,516504E+09	3,516581E+09	5,855288E+09	7,033085E+09	1,288837E+10
2599	2,927642E+09	2,927686E+09	3,516583E+09	3,516580E+09	5,855328E+09	7,033163E+09	1,288849E+10
2600	2,927714E+09	2,927703E+09	3,516537E+09	3,516529E+09	5,855417E+09	7,033066E+09	1,288848E+10
2601	2,927627E+09	2,927590E+09	3,516541E+09	3,516525E+09	5,855217E+09	7,033065E+09	1,288828E+10
2602	2,927687E+09	2,927700E+09	3,516597E+09	3,516550E+09	5,855387E+09	7,033147E+09	1,288853E+10
2603	2,927695E+09	2,927671E+09	3,516534E+09	3,516536E+09	5,855366E+09	7,033070E+09	1,288844E+10
2604	2,927604E+09	2,927657E+09	3,516569E+09	3,516570E+09	5,855261E+09	7,033139E+09	1,288840E+10
2605	2,927715E+09	2,927788E+09	3,516567E+09	3,516575E+09	5,855504E+09	7,033142E+09	1,288865E+10
2606	2,927716E+09	2,927680E+09	3,516536E+09	3,516563E+09	5,855396E+09	7,033099E+09	1,288850E+10
2607	2,927721E+09	2,927724E+09	3,516613E+09	3,516576E+09	5,855445E+09	7,033190E+09	1,288863E+10
2608	2,927849E+09	2,927827E+09	3,516564E+09	3,516552E+09	5,855676E+09	7,033116E+09	1,288879E+10
2609	2,927780E+09	2,927745E+09	3,516533E+09	3,516562E+09	5,855525E+09	7,033095E+09	1,288862E+10
2610	2,927812E+09	2,927861E+09	3,516590E+09	3,516585E+09	5,855673E+09	7,033175E+09	1,288885E+10
2611	2,927860E+09	2,927870E+09	3,516557E+09	3,516546E+09	5,855730E+09	7,033103E+09	1,288883E+10
2612	2,927754E+09	2,927774E+09	3,516594E+09	3,516564E+09	5,855528E+09	7,033158E+09	1,288869E+10
2613	2,927827E+09	2,927868E+09	3,516611E+09	3,516567E+09	5,855694E+09	7,033178E+09	1,288887E+10
2614	2,927812E+09	2,927757E+09	3,516557E+09	3,516564E+09	5,855569E+09	7,033121E+09	1,288869E+10
2615	2,927721E+09	2,927727E+09	3,516586E+09	3,516598E+09	5,855447E+09	7,033184E+09	1,288863E+10
2616	2,927801E+09	2,927828E+09	3,516536E+09	3,516571E+09	5,855629E+09	7,033108E+09	1,288874E+10
2617	2,927720E+09	2,927688E+09	3,516510E+09	3,516547E+09	5,855408E+09	7,033057E+09	1,288846E+10
2618	2,927709E+09	2,927720E+09	3,516577E+09	3,516546E+09	5,855429E+09	7,033123E+09	1,288855E+10
2619	2,927789E+09	2,927758E+09	3,516549E+09	3,516503E+09	5,855547E+09	7,033052E+09	1,288860E+10
2620	2,927668E+09	2,927647E+09	3,516548E+09	3,516537E+09	5,855315E+09	7,033085E+09	1,288840E+10
2621	2,927702E+09	2,927775E+09	3,516568E+09	3,516555E+09	5,855478E+09	7,033123E+09	1,288860E+10
2622	2,927736E+09	2,927746E+09	3,516531E+09	3,516550E+09	5,855482E+09	7,033081E+09	1,288856E+10
2623	2,927659E+09	2,927694E+09	3,516579E+09	3,516583E+09	5,855353E+09	7,033162E+09	1,288852E+10
2624	2,927802E+09	2,927832E+09	3,516576E+09	3,516555E+09	5,855634E+09	7,033130E+09	1,288876E+10
2625	2,927803E+09	2,927739E+09	3,516546E+09	3,516546E+09	5,855542E+09	7,033093E+09	1,288863E+10
2626	2,927798E+09	2,927780E+09	3,516585E+09	3,516578E+09	5,855578E+09	7,033163E+09	1,288874E+10
2627	2,927918E+09	2,927915E+09	3,516548E+09	3,516550E+09	5,855833E+09	7,033098E+09	1,288893E+10
2628	2,927817E+09	2,927824E+09	3,516537E+09	3,516572E+09	5,855641E+09	7,033109E+09	1,288875E+10
2629	2,927844E+09	2,927925E+09	3,516588E+09	3,516561E+09	5,855769E+09	7,033149E+09	1,288892E+10
2630	2,927923E+09	2,927915E+09	3,516574E+09	3,516537E+09	5,855838E+09	7,033111E+09	1,288895E+10
2631	2,927811E+09	2,927795E+09	3,516600E+09	3,516582E+09	5,855606E+09	7,033183E+09	1,288879E+10
2632	2,927886E+09	2,927914E+09	3,516590E+09	3,516567E+09	5,855801E+09	7,033157E+09	1,288896E+10
2633	2,927856E+09	2,927825E+09	3,516542E+09	3,516564E+09	5,855680E+09	7,033106E+09	1,288879E+10
2634	2,927768E+09	2,927780E+09	3,516556E+09	3,516594E+09	5,855548E+09	7,033149E+09	1,288870E+10
2635	2,927868E+09	2,927881E+09	3,516544E+09	3,516539E+09	5,855748E+09	7,033083E+09	1,288883E+10

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	2,927767E+09	2,927731E+09	3,516536E+09	3,516535E+09	5,855498E+09	7,033071E+09	1,288857E+10
2637	2,927746E+09	2,927771E+09	3,516570E+09	3,516523E+09	5,855517E+09	7,033093E+09	1,288861E+10
2638	2,927835E+09	2,927817E+09	3,516545E+09	3,516516E+09	5,855652E+09	7,033061E+09	1,288871E+10
2639	2,927701E+09	2,927699E+09	3,516540E+09	3,516575E+09	5,855400E+09	7,033115E+09	1,288851E+10
2640	2,927755E+09	2,927835E+09	3,516558E+09	3,516553E+09	5,855590E+09	7,033110E+09	1,288870E+10
2641	2,927803E+09	2,927800E+09	3,516549E+09	3,516531E+09	5,855603E+09	7,033080E+09	1,288868E+10
2642	2,927747E+09	2,927728E+09	3,516565E+09	3,516568E+09	5,855475E+09	7,033133E+09	1,288861E+10
2643	2,927900E+09	2,927888E+09	3,516571E+09	3,516537E+09	5,855788E+09	7,033107E+09	1,288889E+10
2644	2,927861E+09	2,927819E+09	3,516537E+09	3,516555E+09	5,855680E+09	7,033092E+09	1,288877E+10
2645	2,927831E+09	2,927877E+09	3,516549E+09	3,516567E+09	5,855708E+09	7,033116E+09	1,288882E+10
2646	2,927966E+09	2,928004E+09	3,516552E+09	3,516551E+09	5,855970E+09	7,033103E+09	1,288907E+10
2647	2,927866E+09	2,927871E+09	3,516566E+09	3,516582E+09	5,855736E+09	7,033148E+09	1,288888E+10
2648	2,927908E+09	2,927964E+09	3,516610E+09	3,516551E+09	5,855872E+09	7,033160E+09	1,288903E+10
2649	2,927984E+09	2,927959E+09	3,516595E+09	3,516541E+09	5,855943E+09	7,033136E+09	1,288908E+10
2650	2,927870E+09	2,927826E+09	3,516566E+09	3,516603E+09	5,855696E+09	7,033169E+09	1,288887E+10
2651	2,927947E+09	2,927971E+09	3,516565E+09	3,516571E+09	5,855917E+09	7,033135E+09	1,288905E+10
2652	2,927895E+09	2,927883E+09	3,516526E+09	3,516560E+09	5,855778E+09	7,033087E+09	1,288887E+10
2653	2,927808E+09	2,927826E+09	3,516534E+09	3,516546E+09	5,855634E+09	7,033081E+09	1,288871E+10
2654	2,927933E+09	2,927927E+09	3,516550E+09	3,516511E+09	5,855860E+09	7,033061E+09	1,288892E+10
2655	2,927816E+09	2,927767E+09	3,516542E+09	3,516539E+09	5,855583E+09	7,033081E+09	1,288866E+10
2656	2,927787E+09	2,927832E+09	3,516562E+09	3,516520E+09	5,855619E+09	7,033082E+09	1,288870E+10
2657	2,927865E+09	2,927894E+09	3,516551E+09	3,516520E+09	5,855759E+09	7,033071E+09	1,288883E+10
2658	2,927747E+09	2,927747E+09	3,516528E+09	3,516586E+09	5,855494E+09	7,033114E+09	1,288861E+10
2659	2,927832E+09	2,927879E+09	3,516574E+09	3,516542E+09	5,855711E+09	7,033117E+09	1,288883E+10
2660	2,927872E+09	2,927847E+09	3,516561E+09	3,516539E+09	5,855719E+09	7,033100E+09	1,288882E+10
2661	2,927811E+09	2,927789E+09	3,516538E+09	3,516557E+09	5,855600E+09	7,033094E+09	1,288869E+10
2662	2,927972E+09	2,927971E+09	3,516547E+09	3,516548E+09	5,855943E+09	7,033095E+09	1,288904E+10
2663	2,927910E+09	2,927900E+09	3,516526E+09	3,516577E+09	5,855809E+09	7,033102E+09	1,288891E+10
2664	2,927889E+09	2,927956E+09	3,516553E+09	3,516545E+09	5,855845E+09	7,033098E+09	1,288894E+10
2665	2,928028E+09	2,928062E+09	3,516591E+09	3,516523E+09	5,856090E+09	7,033114E+09	1,288920E+10
2666	2,927940E+09	2,927900E+09	3,516572E+09	3,516580E+09	5,855840E+09	7,033152E+09	1,288899E+10
2667	2,927987E+09	2,928000E+09	3,516610E+09	3,516547E+09	5,855987E+09	7,033157E+09	1,288914E+10
2668	2,928021E+09	2,928014E+09	3,516578E+09	3,516564E+09	5,856035E+09	7,033143E+09	1,288918E+10
2669	2,927896E+09	2,927894E+09	3,516516E+09	3,516593E+09	5,855790E+09	7,033109E+09	1,288890E+10
2670	2,927997E+09	2,928029E+09	3,516547E+09	3,516561E+09	5,856027E+09	7,033109E+09	1,288914E+10
2671	2,927943E+09	2,927921E+09	3,516541E+09	3,516552E+09	5,855864E+09	7,033092E+09	1,288896E+10
2672	2,927868E+09	2,927870E+09	3,516545E+09	3,516515E+09	5,855738E+09	7,033059E+09	1,288880E+10
2673	2,927979E+09	2,927979E+09	3,516574E+09	3,516500E+09	5,855958E+09	7,033074E+09	1,288903E+10
2674	2,927858E+09	2,927814E+09	3,516524E+09	3,516564E+09	5,855672E+09	7,033088E+09	1,288876E+10
2675	2,927833E+09	2,927887E+09	3,516557E+09	3,516534E+09	5,855721E+09	7,033092E+09	1,288881E+10
2676	2,927899E+09	2,927945E+09	3,516558E+09	3,516537E+09	5,855845E+09	7,033095E+09	1,288894E+10
2677	2,927802E+09	2,927789E+09	3,516509E+09	3,516560E+09	5,855590E+09	7,033069E+09	1,288866E+10
2678	2,927923E+09	2,927926E+09	3,516562E+09	3,516536E+09	5,855848E+09	7,033098E+09	1,288895E+10
2679	2,927946E+09	2,927904E+09	3,516547E+09	3,516548E+09	5,855850E+09	7,033095E+09	1,288895E+10
2680	2,927877E+09	2,927878E+09	3,516516E+09	3,516542E+09	5,855754E+09	7,033058E+09	1,288881E+10
2681	2,928022E+09	2,928070E+09	3,516561E+09	3,516532E+09	5,856092E+09	7,033093E+09	1,288919E+10
2682	2,927968E+09	2,927962E+09	3,516534E+09	3,516572E+09	5,855930E+09	7,033106E+09	1,288904E+10
2683	2,927961E+09	2,928001E+09	3,516592E+09	3,516532E+09	5,855963E+09	7,033124E+09	1,288909E+10
2684	2,928079E+09	2,928104E+09	3,516614E+09	3,516539E+09	5,856184E+09	7,033153E+09	1,288934E+10

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	2,927985E+09	2,927939E+09	3,516542E+09	3,516584E+09	5,855925E+09	7,033127E+09	1,288905E+10
2686	2,928046E+09	2,928057E+09	3,516573E+09	3,516575E+09	5,856102E+09	7,033148E+09	1,288925E+10
2687	2,928064E+09	2,928070E+09	3,516547E+09	3,516585E+09	5,856134E+09	7,033132E+09	1,288927E+10
2688	2,927954E+09	2,927953E+09	3,516500E+09	3,516556E+09	5,855907E+09	7,033056E+09	1,288896E+10
2689	2,928058E+09	2,928080E+09	3,516570E+09	3,516512E+09	5,856139E+09	7,033082E+09	1,288922E+10
2690	2,928006E+09	2,927955E+09	3,516540E+09	3,516533E+09	5,855961E+09	7,033073E+09	1,288903E+10
2691	2,927924E+09	2,927917E+09	3,516557E+09	3,516506E+09	5,855841E+09	7,033063E+09	1,288890E+10
2692	2,927991E+09	2,928044E+09	3,516575E+09	3,516527E+09	5,856035E+09	7,033102E+09	1,288914E+10
2693	2,927872E+09	2,927874E+09	3,516500E+09	3,516570E+09	5,855746E+09	7,033070E+09	1,288882E+10
2694	2,927888E+09	2,927933E+09	3,516554E+09	3,516548E+09	5,855821E+09	7,033102E+09	1,288892E+10
2695	2,927961E+09	2,927974E+09	3,516569E+09	3,516551E+09	5,855936E+09	7,033120E+09	1,288906E+10
2696	2,927887E+09	2,927839E+09	3,516502E+09	3,516539E+09	5,855726E+09	7,033041E+09	1,288877E+10
2697	2,928000E+09	2,927992E+09	3,516564E+09	3,516521E+09	5,855992E+09	7,033085E+09	1,288908E+10
2698	2,928013E+09	2,927982E+09	3,516521E+09	3,516557E+09	5,855995E+09	7,033078E+09	1,288907E+10
2699	2,927944E+09	2,927959E+09	3,516518E+09	3,516529E+09	5,855904E+09	7,033047E+09	1,288895E+10
2700	2,928059E+09	2,928137E+09	3,516586E+09	3,516529E+09	5,856196E+09	7,033115E+09	1,288931E+10
2701	2,928019E+09	2,928009E+09	3,516538E+09	3,516549E+09	5,856027E+09	7,033087E+09	1,288911E+10
2702	2,928038E+09	2,928041E+09	3,516587E+09	3,516545E+09	5,856078E+09	7,033132E+09	1,288921E+10
2703	2,928132E+09	2,928148E+09	3,516600E+09	3,516572E+09	5,856280E+09	7,033172E+09	1,288945E+10
2704	2,928041E+09	2,928013E+09	3,516503E+09	3,516580E+09	5,856054E+09	7,033083E+09	1,288914E+10
2705	2,928096E+09	2,928132E+09	3,516565E+09	3,516557E+09	5,856228E+09	7,033122E+09	1,288935E+10
2706	2,928125E+09	2,928120E+09	3,516541E+09	3,516567E+09	5,856245E+09	7,033108E+09	1,288935E+10
2707	2,928026E+09	2,927994E+09	3,516529E+09	3,516522E+09	5,856020E+09	7,033052E+09	1,288907E+10
2708	2,928093E+09	2,928125E+09	3,516599E+09	3,516512E+09	5,856217E+09	7,033111E+09	1,288933E+10
2709	2,928032E+09	2,927999E+09	3,516527E+09	3,516534E+09	5,856032E+09	7,033061E+09	1,288909E+10
2710	2,927961E+09	2,927971E+09	3,516537E+09	3,516543E+09	5,855932E+09	7,033080E+09	1,288901E+10
2711	2,928017E+09	2,928088E+09	3,516565E+09	3,516562E+09	5,856106E+09	7,033126E+09	1,288923E+10
2712	2,927931E+09	2,927916E+09	3,516491E+09	3,516548E+09	5,855847E+09	7,033039E+09	1,288889E+10
2713	2,927969E+09	2,927974E+09	3,516567E+09	3,516515E+09	5,855943E+09	7,033082E+09	1,288903E+10
2714	2,928052E+09	2,928013E+09	3,516546E+09	3,516538E+09	5,856065E+09	7,033084E+09	1,288915E+10
2715	2,927969E+09	2,927906E+09	3,516496E+09	3,516519E+09	5,855875E+09	7,033015E+09	1,288889E+10
2716	2,928033E+09	2,928089E+09	3,516559E+09	3,516523E+09	5,856121E+09	7,033082E+09	1,288920E+10
2717	2,928042E+09	2,928064E+09	3,516507E+09	3,516540E+09	5,856106E+09	7,033047E+09	1,288915E+10
2718	2,928002E+09	2,928023E+09	3,516536E+09	3,516537E+09	5,856025E+09	7,033073E+09	1,288910E+10
2719	2,928110E+09	2,928177E+09	3,516611E+09	3,516551E+09	5,856287E+09	7,033162E+09	1,288945E+10
2720	2,928090E+09	2,928056E+09	3,516537E+09	3,516550E+09	5,856145E+09	7,033087E+09	1,288923E+10
2721	2,928107E+09	2,928098E+09	3,516581E+09	3,516552E+09	5,856205E+09	7,033134E+09	1,288934E+10
2722	2,928197E+09	2,928207E+09	3,516558E+09	3,516591E+09	5,856404E+09	7,033150E+09	1,288955E+10
2723	2,928114E+09	2,928079E+09	3,516495E+09	3,516558E+09	5,856192E+09	7,033053E+09	1,288924E+10
2724	2,928142E+09	2,928190E+09	3,516579E+09	3,516529E+09	5,856332E+09	7,033108E+09	1,288944E+10
2725	2,928175E+09	2,928162E+09	3,516540E+09	3,516524E+09	5,856337E+09	7,033063E+09	1,288940E+10
2726	2,928088E+09	2,928039E+09	3,516530E+09	3,516524E+09	5,856126E+09	7,033054E+09	1,288918E+10
2727	2,928114E+09	2,928170E+09	3,516599E+09	3,516543E+09	5,856283E+09	7,033143E+09	1,288943E+10
2728	2,928060E+09	2,928064E+09	3,516510E+09	3,516539E+09	5,856124E+09	7,033049E+09	1,288917E+10
2729	2,928001E+09	2,928022E+09	3,516542E+09	3,516540E+09	5,856022E+09	7,033081E+09	1,288910E+10
2730	2,928080E+09	2,928115E+09	3,516561E+09	3,516563E+09	5,856195E+09	7,033124E+09	1,288932E+10
2731	2,928020E+09	2,927951E+09	3,516500E+09	3,516521E+09	5,855971E+09	7,033021E+09	1,288899E+10
2732	2,928025E+09	2,928027E+09	3,516567E+09	3,516510E+09	5,856052E+09	7,033077E+09	1,288913E+10
2733	2,928101E+09	2,928082E+09	3,516515E+09	3,516526E+09	5,856182E+09	7,033042E+09	1,288922E+10

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							
2734	2,928025E+09	2,927993E+09	3,516471E+09	3,516537E+09	5,856018E+09	7,033008E+09	1,288903E+10
2735	2,928063E+09	2,928159E+09	3,516568E+09	3,516539E+09	5,856222E+09	7,033107E+09	1,288933E+10
2736	2,928101E+09	2,928124E+09	3,516521E+09	3,516514E+09	5,856226E+09	7,033035E+09	1,288926E+10
2737	2,928078E+09	2,928069E+09	3,516562E+09	3,516520E+09	5,856147E+09	7,033082E+09	1,288923E+10
2738	2,928190E+09	2,928215E+09	3,516599E+09	3,516565E+09	5,856405E+09	7,033164E+09	1,288957E+10
2739	2,928172E+09	2,928117E+09	3,516525E+09	3,516549E+09	5,856288E+09	7,033074E+09	1,288936E+10
2740	2,928149E+09	2,928181E+09	3,516565E+09	3,516560E+09	5,856330E+09	7,033125E+09	1,288945E+10
2741	2,928243E+09	2,928273E+09	3,516536E+09	3,516566E+09	5,856515E+09	7,033102E+09	1,288962E+10
2742	2,928181E+09	2,928137E+09	3,516502E+09	3,516547E+09	5,856317E+09	7,033049E+09	1,288937E+10
2743	2,928186E+09	2,928230E+09	3,516603E+09	3,516531E+09	5,856416E+09	7,033134E+09	1,288955E+10
2744	2,928225E+09	2,928207E+09	3,516543E+09	3,516513E+09	5,856432E+09	7,033056E+09	1,288949E+10
2745	2,928130E+09	2,928093E+09	3,516534E+09	3,516536E+09	5,856223E+09	7,033070E+09	1,288929E+10
2746	2,928151E+09	2,928215E+09	3,516568E+09	3,516571E+09	5,856366E+09	7,033139E+09	1,288950E+10
2747	2,928117E+09	2,928103E+09	3,516509E+09	3,516528E+09	5,856220E+09	7,033038E+09	1,288926E+10
2748	2,928048E+09	2,928063E+09	3,516547E+09	3,516522E+09	5,856111E+09	7,033069E+09	1,288918E+10
2749	2,928144E+09	2,928144E+09	3,516538E+09	3,516528E+09	5,856288E+09	7,033065E+09	1,288935E+10
2750	2,928097E+09	2,928011E+09	3,516479E+09	3,516518E+09	5,856108E+09	7,032997E+09	1,288910E+10
2751	2,928062E+09	2,928102E+09	3,516552E+09	3,516522E+09	5,856164E+09	7,033074E+09	1,288924E+10
2752	2,928139E+09	2,928174E+09	3,516502E+09	3,516510E+09	5,856313E+09	7,033012E+09	1,288933E+10
2753	2,928073E+09	2,928070E+09	3,516499E+09	3,516524E+09	5,856143E+09	7,033023E+09	1,288917E+10
2754	2,928124E+09	2,928200E+09	3,516589E+09	3,516545E+09	5,856324E+09	7,033134E+09	1,288946E+10
2755	2,928187E+09	2,928163E+09	3,516554E+09	3,516509E+09	5,856350E+09	7,033063E+09	1,288941E+10
2756	2,928139E+09	2,928121E+09	3,516568E+09	3,516538E+09	5,856260E+09	7,033107E+09	1,288937E+10
2757	2,928250E+09	2,928272E+09	3,516560E+09	3,516574E+09	5,856522E+09	7,033134E+09	1,288966E+10
2758	2,928243E+09	2,928199E+09	3,516486E+09	3,516567E+09	5,856443E+09	7,033053E+09	1,288950E+10
2759	2,928197E+09	2,928245E+09	3,516559E+09	3,516561E+09	5,856442E+09	7,033119E+09	1,288956E+10
2760	2,928309E+09	2,928332E+09	3,516541E+09	3,516521E+09	5,856641E+09	7,033062E+09	1,288970E+10
2761	2,928250E+09	2,928187E+09	3,516521E+09	3,516516E+09	5,856437E+09	7,033037E+09	1,288947E+10
2762	2,928235E+09	2,928270E+09	3,516597E+09	3,516540E+09	5,856505E+09	7,033137E+09	1,288964E+10
2763	2,928271E+09	2,928264E+09	3,516542E+09	3,516512E+09	5,856535E+09	7,033054E+09	1,288959E+10
2764	2,928143E+09	2,928154E+09	3,516528E+09	3,516548E+09	5,856297E+09	7,033077E+09	1,288937E+10
2765	2,928183E+09	2,928248E+09	3,516552E+09	3,516560E+09	5,856431E+09	7,033112E+09	1,288954E+10
2766	2,928185E+09	2,928141E+09	3,516503E+09	3,516528E+09	5,856326E+09	7,033031E+09	1,288936E+10
2767	2,928101E+09	2,928096E+09	3,516548E+09	3,516527E+09	5,856197E+09	7,033075E+09	1,288927E+10
2768	2,928205E+09	2,928200E+09	3,516521E+09	3,516508E+09	5,856405E+09	7,033028E+09	1,288943E+10
2769	2,928151E+09	2,928090E+09	3,516471E+09	3,516513E+09	5,856240E+09	7,032985E+09	1,288923E+10
2770	2,928106E+09	2,928172E+09	3,516539E+09	3,516532E+09	5,856278E+09	7,033071E+09	1,288935E+10
2771	2,928203E+09	2,928232E+09	3,516528E+09	3,516489E+09	5,856436E+09	7,033016E+09	1,288945E+10
2772	2,928126E+09	2,928121E+09	3,516532E+09	3,516514E+09	5,856247E+09	7,033046E+09	1,288929E+10
2773	2,928194E+09	2,928231E+09	3,516581E+09	3,516537E+09	5,856424E+09	7,033118E+09	1,288954E+10
2774	2,928268E+09	2,928223E+09	3,516532E+09	3,516535E+09	5,856491E+09	7,033067E+09	1,288956E+10
2775	2,928188E+09	2,928197E+09	3,516541E+09	3,516569E+09	5,856385E+09	7,033110E+09	1,288949E+10
2776	2,928307E+09	2,928355E+09	3,516530E+09	3,516557E+09	5,856662E+09	7,033086E+09	1,288975E+10
2777	2,928310E+09	2,928280E+09	3,516497E+09	3,516540E+09	5,856589E+09	7,033037E+09	1,288963E+10
2778	2,928265E+09	2,928296E+09	3,516566E+09	3,516544E+09	5,856560E+09	7,033110E+09	1,288967E+10
2779	2,928381E+09	2,928374E+09	3,516569E+09	3,516498E+09	5,856755E+09	7,033067E+09	1,288982E+10
2780	2,928284E+09	2,928243E+09	3,516538E+09	3,516526E+09	5,856527E+09	7,033064E+09	1,288959E+10
2781	2,928262E+09	2,928311E+09	3,516568E+09	3,516554E+09	5,856574E+09	7,033122E+09	1,288970E+10
2782	2,928312E+09	2,928320E+09	3,516517E+09	3,516540E+09	5,856632E+09	7,033057E+09	1,288969E+10

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	2,928177E+09	2,928189E+09	3,516523E+09	3,516555E+09	5,856366E+09	7,033078E+09	1,288944E+10
2784	2,928248E+09	2,928276E+09	3,516543E+09	3,516520E+09	5,856524E+09	7,033063E+09	1,288959E+10
2785	2,928261E+09	2,928187E+09	3,516500E+09	3,516499E+09	5,856448E+09	7,033000E+09	1,288945E+10
2786	2,928161E+09	2,928149E+09	3,516525E+09	3,516526E+09	5,856310E+09	7,033052E+09	1,288936E+10
2787	2,928259E+09	2,928275E+09	3,516521E+09	3,516493E+09	5,856534E+09	7,033014E+09	1,288955E+10
2788	2,928176E+09	2,928174E+09	3,516488E+09	3,516511E+09	5,856350E+09	7,032999E+09	1,288935E+10
2789	2,928145E+09	2,928217E+09	3,516550E+09	3,516524E+09	5,856362E+09	7,033074E+09	1,288944E+10
2790	2,928271E+09	2,928282E+09	3,516544E+09	3,516505E+09	5,856553E+09	7,033049E+09	1,288960E+10
2791	2,928182E+09	2,928159E+09	3,516541E+09	3,516545E+09	5,856342E+09	7,033086E+09	1,288943E+10
2792	2,928265E+09	2,928286E+09	3,516559E+09	3,516543E+09	5,856551E+09	7,033102E+09	1,288965E+10
2793	2,928342E+09	2,928306E+09	3,516500E+09	3,516543E+09	5,856648E+09	7,033043E+09	1,288969E+10
2794	2,928254E+09	2,928270E+09	3,516509E+09	3,516573E+09	5,856524E+09	7,033081E+09	1,288961E+10
2795	2,928389E+09	2,928419E+09	3,516544E+09	3,516512E+09	5,856808E+09	7,033056E+09	1,288986E+10
2796	2,928368E+09	2,928340E+09	3,516524E+09	3,516503E+09	5,856708E+09	7,033027E+09	1,288974E+10
2797	2,928320E+09	2,928333E+09	3,516567E+09	3,516523E+09	5,856654E+09	7,033090E+09	1,288974E+10
2798	2,928431E+09	2,928435E+09	3,516559E+09	3,516518E+09	5,856866E+09	7,033077E+09	1,288994E+10
2799	2,928299E+09	2,928301E+09	3,516529E+09	3,516561E+09	5,856599E+09	7,033090E+09	1,288969E+10
2800	2,928293E+09	2,928359E+09	3,516552E+09	3,516549E+09	5,856652E+09	7,033101E+09	1,288975E+10
2801	2,928366E+09	2,928361E+09	3,516522E+09	3,516531E+09	5,856727E+09	7,033052E+09	1,288978E+10
2802	2,928243E+09	2,928214E+09	3,516517E+09	3,516551E+09	5,856457E+09	7,033068E+09	1,288952E+10
2803	2,928328E+09	2,928309E+09	3,516548E+09	3,516496E+09	5,856637E+09	7,033044E+09	1,288968E+10
2804	2,928304E+09	2,928255E+09	3,516501E+09	3,516494E+09	5,856559E+09	7,032995E+09	1,288955E+10
2805	2,928198E+09	2,928213E+09	3,516499E+09	3,516526E+09	5,856411E+09	7,033024E+09	1,288944E+10
2806	2,928302E+09	2,928349E+09	3,516516E+09	3,516506E+09	5,856651E+09	7,033022E+09	1,288967E+10
2807	2,928211E+09	2,928224E+09	3,516511E+09	3,516522E+09	5,856435E+09	7,033032E+09	1,288947E+10
2808	2,928209E+09	2,928249E+09	3,516554E+09	3,516505E+09	5,856458E+09	7,033058E+09	1,288952E+10
2809	2,928348E+09	2,928333E+09	3,516540E+09	3,516509E+09	5,856681E+09	7,033049E+09	1,288973E+10
2810	2,928253E+09	2,928222E+09	3,516505E+09	3,516562E+09	5,856475E+09	7,033067E+09	1,288954E+10
2811	2,928340E+09	2,928361E+09	3,516539E+09	3,516530E+09	5,856701E+09	7,033069E+09	1,288977E+10
2812	2,928392E+09	2,928399E+09	3,516507E+09	3,516522E+09	5,856791E+09	7,033029E+09	1,288982E+10
2813	2,928318E+09	2,928326E+09	3,516513E+09	3,516541E+09	5,856644E+09	7,033054E+09	1,288970E+10
2814	2,928459E+09	2,928477E+09	3,516565E+09	3,516506E+09	5,856936E+09	7,033070E+09	1,289001E+10
2815	2,928410E+09	2,928387E+09	3,516547E+09	3,516522E+09	5,856798E+09	7,033069E+09	1,288987E+10
2816	2,928360E+09	2,928381E+09	3,516557E+09	3,516532E+09	5,856740E+09	7,033089E+09	1,288983E+10
2817	2,928470E+09	2,928501E+09	3,516539E+09	3,516544E+09	5,856970E+09	7,033083E+09	1,289005E+10
2818	2,928344E+09	2,928343E+09	3,516505E+09	3,516579E+09	5,856687E+09	7,033084E+09	1,288977E+10
2819	2,928368E+09	2,928385E+09	3,516559E+09	3,516518E+09	5,856753E+09	7,033076E+09	1,288983E+10
2820	2,928428E+09	2,928402E+09	3,516530E+09	3,516498E+09	5,856830E+09	7,033028E+09	1,288986E+10
2821	2,928306E+09	2,928250E+09	3,516493E+09	3,516529E+09	5,856556E+09	7,033022E+09	1,288958E+10
2822	2,928379E+09	2,928384E+09	3,516528E+09	3,516501E+09	5,856763E+09	7,033029E+09	1,288979E+10
2823	2,928319E+09	2,928331E+09	3,516499E+09	3,516511E+09	5,856650E+09	7,033010E+09	1,288966E+10
2824	2,928226E+09	2,928273E+09	3,516505E+09	3,516513E+09	5,856499E+09	7,033018E+09	1,288952E+10
2825	2,928350E+09	2,928402E+09	3,516534E+09	3,516504E+09	5,856752E+09	7,033038E+09	1,288979E+10
2826	2,928273E+09	2,928251E+09	3,516518E+09	3,516538E+09	5,856525E+09	7,033055E+09	1,288958E+10
2827	2,928295E+09	2,928282E+09	3,516559E+09	3,516502E+09	5,856577E+09	7,033061E+09	1,288964E+10
2828	2,928408E+09	2,928401E+09	3,516528E+09	3,516514E+09	5,856809E+09	7,033042E+09	1,288985E+10
2829	2,928318E+09	2,928292E+09	3,516464E+09	3,516559E+09	5,856610E+09	7,033023E+09	1,288963E+10
2830	2,928412E+09	2,928445E+09	3,516524E+09	3,516520E+09	5,856857E+09	7,033044E+09	1,288990E+10
2831	2,928447E+09	2,928461E+09	3,516529E+09	3,516504E+09	5,856908E+09	7,033033E+09	1,288994E+10

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	2,928383E+09	2,928375E+09	3,516524E+09	3,516507E+09	5,856758E+09	7,033032E+09	1,288979E+10
2833	2,928516E+09	2,928539E+09	3,516568E+09	3,516512E+09	5,857056E+09	7,033080E+09	1,289014E+10
2834	2,928453E+09	2,928446E+09	3,516533E+09	3,516555E+09	5,856899E+09	7,033088E+09	1,288999E+10
2835	2,928412E+09	2,928435E+09	3,516550E+09	3,516538E+09	5,856847E+09	7,033087E+09	1,288993E+10
2836	2,928508E+09	2,928558E+09	3,516548E+09	3,516537E+09	5,857066E+09	7,033085E+09	1,289015E+10
2837	2,928408E+09	2,928372E+09	3,516494E+09	3,516560E+09	5,856780E+09	7,033054E+09	1,288983E+10
2838	2,928442E+09	2,928425E+09	3,516554E+09	3,516511E+09	5,856868E+09	7,033065E+09	1,288993E+10
2839	2,928473E+09	2,928451E+09	3,516534E+09	3,516505E+09	5,856923E+09	7,033039E+09	1,288996E+10
2840	2,928345E+09	2,928308E+09	3,516470E+09	3,516518E+09	5,856654E+09	7,032988E+09	1,288964E+10
2841	2,928408E+09	2,928461E+09	3,516514E+09	3,516509E+09	5,856869E+09	7,033023E+09	1,288989E+10
2842	2,928356E+09	2,928382E+09	3,516501E+09	3,516515E+09	5,856738E+09	7,033016E+09	1,288975E+10
2843	2,928294E+09	2,928296E+09	3,516529E+09	3,516485E+09	5,856590E+09	7,033014E+09	1,288960E+10
2844	2,928410E+09	2,928439E+09	3,516555E+09	3,516487E+09	5,856849E+09	7,033043E+09	1,288989E+10
2845	2,928347E+09	2,928290E+09	3,516489E+09	3,516537E+09	5,856637E+09	7,033026E+09	1,288966E+10
2846	2,928364E+09	2,928359E+09	3,516526E+09	3,516516E+09	5,856723E+09	7,033043E+09	1,288977E+10
2847	2,928450E+09	2,928485E+09	3,516517E+09	3,516523E+09	5,856935E+09	7,033040E+09	1,288998E+10
2848	2,928373E+09	2,928365E+09	3,516462E+09	3,516529E+09	5,856738E+09	7,032991E+09	1,288973E+10
2849	2,928477E+09	2,928518E+09	3,516541E+09	3,516505E+09	5,856995E+09	7,033047E+09	1,289004E+10
2850	2,928512E+09	2,928511E+09	3,516547E+09	3,516514E+09	5,857024E+09	7,033060E+09	1,289008E+10
2851	2,928455E+09	2,928421E+09	3,516542E+09	3,516511E+09	5,856876E+09	7,033053E+09	1,288993E+10
2852	2,928555E+09	2,928609E+09	3,516569E+09	3,516529E+09	5,857165E+09	7,033098E+09	1,289026E+10
2853	2,928502E+09	2,928499E+09	3,516501E+09	3,516573E+09	5,857001E+09	7,033074E+09	1,289007E+10
2854	2,928478E+09	2,928487E+09	3,516537E+09	3,516538E+09	5,856965E+09	7,033075E+09	1,289004E+10
2855	2,928564E+09	2,928589E+09	3,516555E+09	3,516522E+09	5,857153E+09	7,033077E+09	1,289023E+10
2856	2,928473E+09	2,928409E+09	3,516481E+09	3,516520E+09	5,856882E+09	7,033000E+09	1,288988E+10
2857	2,928497E+09	2,928492E+09	3,516528E+09	3,516499E+09	5,856989E+09	7,033027E+09	1,289002E+10
2858	2,928504E+09	2,928515E+09	3,516515E+09	3,516512E+09	5,857018E+09	7,033026E+09	1,289004E+10
2859	2,928384E+09	2,928368E+09	3,516480E+09	3,516503E+09	5,856753E+09	7,032983E+09	1,288974E+10
2860	2,928431E+09	2,928516E+09	3,516544E+09	3,516493E+09	5,856947E+09	7,033037E+09	1,288998E+10
2861	2,928410E+09	2,928404E+09	3,516511E+09	3,516512E+09	5,856815E+09	7,033023E+09	1,288984E+10
2862	2,928366E+09	2,928330E+09	3,516531E+09	3,516496E+09	5,856697E+09	7,033027E+09	1,288972E+10
2863	2,928462E+09	2,928482E+09	3,516551E+09	3,516512E+09	5,856943E+09	7,033063E+09	1,289001E+10
2864	2,928402E+09	2,928360E+09	3,516449E+09	3,516534E+09	5,856762E+09	7,032983E+09	1,288975E+10
2865	2,928423E+09	2,928453E+09	3,516490E+09	3,516521E+09	5,856877E+09	7,033011E+09	1,288989E+10
2866	2,928514E+09	2,928554E+09	3,516518E+09	3,516514E+09	5,857068E+09	7,033032E+09	1,289010E+10
2867	2,928461E+09	2,928417E+09	3,516490E+09	3,516489E+09	5,856878E+09	7,032979E+09	1,288986E+10
2868	2,928536E+09	2,928582E+09	3,516571E+09	3,516484E+09	5,857118E+09	7,033055E+09	1,289017E+10
2869	2,928575E+09	2,928567E+09	3,516536E+09	3,516525E+09	5,857142E+09	7,033060E+09	1,289020E+10
2870	2,928510E+09	2,928492E+09	3,516528E+09	3,516537E+09	5,857003E+09	7,033065E+09	1,289007E+10
2871	2,928588E+09	2,928672E+09	3,516571E+09	3,516550E+09	5,857259E+09	7,033121E+09	1,289038E+10
2872	2,928556E+09	2,928545E+09	3,516488E+09	3,516549E+09	5,857101E+09	7,033037E+09	1,289014E+10
2873	2,928545E+09	2,928536E+09	3,516526E+09	3,516528E+09	5,857081E+09	7,033053E+09	1,289013E+10
2874	2,928628E+09	2,928625E+09	3,516551E+09	3,516519E+09	5,857253E+09	7,033070E+09	1,289032E+10
2875	2,928537E+09	2,928453E+09	3,516478E+09	3,516500E+09	5,856990E+09	7,032978E+09	1,288997E+10
2876	2,928522E+09	2,928566E+09	3,516529E+09	3,516489E+09	5,857088E+09	7,033018E+09	1,289011E+10
2877	2,928539E+09	2,928569E+09	3,516498E+09	3,516512E+09	5,857108E+09	7,033010E+09	1,289012E+10
2878	2,928433E+09	2,928411E+09	3,516493E+09	3,516499E+09	5,856845E+09	7,032992E+09	1,288984E+10
2879	2,928472E+09	2,928539E+09	3,516569E+09	3,516493E+09	5,857011E+09	7,033062E+09	1,289007E+10
2880	2,928468E+09	2,928434E+09	3,516495E+09	3,516500E+09	5,856901E+09	7,032995E+09	1,288990E+10

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							
2881	2,928427E+09	2,928399E+09	3,516490E+09	3,516514E+09	5,856826E+09	7,033004E+09	1,288983E+10
2882	2,928515E+09	2,928553E+09	3,516520E+09	3,516529E+09	5,857068E+09	7,033050E+09	1,289012E+10
2883	2,928471E+09	2,928438E+09	3,516447E+09	3,516509E+09	5,856909E+09	7,032956E+09	1,288986E+10
2884	2,928479E+09	2,928534E+09	3,516519E+09	3,516484E+09	5,857014E+09	7,033003E+09	1,289002E+10
2885	2,928588E+09	2,928605E+09	3,516534E+09	3,516501E+09	5,857193E+09	7,033035E+09	1,289023E+10
2886	2,928537E+09	2,928474E+09	3,516514E+09	3,516498E+09	5,857012E+09	7,033012E+09	1,289002E+10
2887	2,928578E+09	2,928634E+09	3,516583E+09	3,516515E+09	5,857212E+09	7,033098E+09	1,289031E+10
2888	2,928617E+09	2,928631E+09	3,516507E+09	3,516539E+09	5,857248E+09	7,033046E+09	1,289029E+10
2889	2,928566E+09	2,928568E+09	3,516489E+09	3,516553E+09	5,857134E+09	7,033041E+09	1,289018E+10
2890	2,928653E+09	2,928705E+09	3,516564E+09	3,516542E+09	5,857358E+09	7,033106E+09	1,289046E+10
2891	2,928645E+09	2,928579E+09	3,516493E+09	3,516502E+09	5,857224E+09	7,032995E+09	1,289022E+10
2892	2,928606E+09	2,928594E+09	3,516526E+09	3,516490E+09	5,857200E+09	7,033015E+09	1,289022E+10
2893	2,928679E+09	2,928681E+09	3,516526E+09	3,516514E+09	5,857360E+09	7,033040E+09	1,289040E+10
2894	2,928574E+09	2,928529E+09	3,516472E+09	3,516503E+09	5,857102E+09	7,032975E+09	1,289008E+10
2895	2,928528E+09	2,928622E+09	3,516550E+09	3,516498E+09	5,857150E+09	7,033048E+09	1,289020E+10
2896	2,928565E+09	2,928606E+09	3,516508E+09	3,516499E+09	5,857171E+09	7,033007E+09	1,289018E+10
2897	2,928487E+09	2,928451E+09	3,516487E+09	3,516514E+09	5,856938E+09	7,033001E+09	1,288994E+10
2898	2,928532E+09	2,928559E+09	3,516567E+09	3,516517E+09	5,857092E+09	7,033084E+09	1,289018E+10
2899	2,928543E+09	2,928481E+09	3,516476E+09	3,516498E+09	5,857024E+09	7,032975E+09	1,289000E+10
2900	2,928478E+09	2,928486E+09	3,516469E+09	3,516505E+09	5,856964E+09	7,032974E+09	1,288994E+10
2901	2,928583E+09	2,928623E+09	3,516499E+09	3,516518E+09	5,857206E+09	7,033016E+09	1,289022E+10
2902	2,928550E+09	2,928502E+09	3,516468E+09	3,516480E+09	5,857051E+09	7,032947E+09	1,289000E+10
2903	2,928535E+09	2,928585E+09	3,516558E+09	3,516469E+09	5,857121E+09	7,033027E+09	1,289015E+10
2904	2,928644E+09	2,928659E+09	3,516529E+09	3,516488E+09	5,857304E+09	7,033017E+09	1,289032E+10
2905	2,928588E+09	2,928553E+09	3,516485E+09	3,516530E+09	5,857141E+09	7,033015E+09	1,289016E+10
2906	2,928622E+09	2,928695E+09	3,516569E+09	3,516547E+09	5,857317E+09	7,033116E+09	1,289043E+10
2907	2,928683E+09	2,928687E+09	3,516502E+09	3,516527E+09	5,857370E+09	7,033029E+09	1,289040E+10
2908	2,928629E+09	2,928629E+09	3,516500E+09	3,516523E+09	5,857258E+09	7,033023E+09	1,289028E+10
2909	2,928735E+09	2,928742E+09	3,516554E+09	3,516527E+09	5,857477E+09	7,033081E+09	1,289056E+10
2910	2,928718E+09	2,928632E+09	3,516497E+09	3,516491E+09	5,857351E+09	7,032988E+09	1,289034E+10
2911	2,928634E+09	2,928655E+09	3,516532E+09	3,516497E+09	5,857289E+09	7,033030E+09	1,289032E+10
2912	2,928697E+09	2,928746E+09	3,516503E+09	3,516513E+09	5,857443E+09	7,033015E+09	1,289046E+10
2913	2,928604E+09	2,928594E+09	3,516458E+09	3,516520E+09	5,857198E+09	7,032978E+09	1,289018E+10
2914	2,928571E+09	2,928636E+09	3,516569E+09	3,516503E+09	5,857207E+09	7,033072E+09	1,289028E+10
2915	2,928636E+09	2,928622E+09	3,516517E+09	3,516479E+09	5,857258E+09	7,032996E+09	1,289025E+10
2916	2,928547E+09	2,928501E+09	3,516478E+09	3,516498E+09	5,857048E+09	7,032976E+09	1,289002E+10
2917	2,928599E+09	2,928609E+09	3,516526E+09	3,516525E+09	5,857208E+09	7,033052E+09	1,289026E+10
2918	2,928606E+09	2,928563E+09	3,516463E+09	3,516492E+09	5,857169E+09	7,032954E+09	1,289012E+10
2919	2,928518E+09	2,928557E+09	3,516486E+09	3,516489E+09	5,857075E+09	7,032975E+09	1,289005E+10
2920	2,928630E+09	2,928679E+09	3,516509E+09	3,516487E+09	5,857309E+09	7,032996E+09	1,289031E+10
2921	2,928614E+09	2,928569E+09	3,516471E+09	3,516488E+09	5,857183E+09	7,032959E+09	1,289014E+10
2922	2,928589E+09	2,928621E+09	3,516571E+09	3,516498E+09	5,857210E+09	7,033068E+09	1,289028E+10
2923	2,928704E+09	2,928719E+09	3,516521E+09	3,516502E+09	5,857423E+09	7,033023E+09	1,289045E+10
2924	2,928639E+09	2,928638E+09	3,516466E+09	3,516535E+09	5,857276E+09	7,033001E+09	1,289028E+10
2925	2,928697E+09	2,928745E+09	3,516546E+09	3,516549E+09	5,857442E+09	7,033095E+09	1,289054E+10
2926	2,928774E+09	2,928737E+09	3,516510E+09	3,516497E+09	5,857510E+09	7,033007E+09	1,289052E+10
2927	2,928694E+09	2,928676E+09	3,516513E+09	3,516500E+09	5,857371E+09	7,033013E+09	1,289038E+10
2928	2,928784E+09	2,928799E+09	3,516533E+09	3,516504E+09	5,857584E+09	7,033037E+09	1,289062E+10
2929	2,928756E+09	2,928720E+09	3,516468E+09	3,516507E+09	5,857476E+09	7,032975E+09	1,289045E+10

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	2,928655E+09	2,928710E+09	3,516540E+09	3,516516E+09	5,857365E+09	7,033056E+09	1,289042E+10
2931	2,928734E+09	2,928790E+09	3,516520E+09	3,516499E+09	5,857524E+09	7,033019E+09	1,289054E+10
2932	2,928647E+09	2,928633E+09	3,516484E+09	3,516506E+09	5,857280E+09	7,032990E+09	1,289027E+10
2933	2,928642E+09	2,928646E+09	3,516564E+09	3,516515E+09	5,857288E+09	7,033080E+09	1,289037E+10
2934	2,928711E+09	2,928652E+09	3,516511E+09	3,516484E+09	5,857363E+09	7,032995E+09	1,289036E+10
2935	2,928589E+09	2,928561E+09	3,516462E+09	3,516509E+09	5,857150E+09	7,032971E+09	1,289012E+10
2936	2,928639E+09	2,928683E+09	3,516481E+09	3,516509E+09	5,857322E+09	7,032990E+09	1,289031E+10
2937	2,928658E+09	2,928644E+09	3,516441E+09	3,516483E+09	5,857303E+09	7,032924E+09	1,289023E+10
2938	2,928575E+09	2,928596E+09	3,516516E+09	3,516475E+09	5,857172E+09	7,032991E+09	1,289016E+10
2939	2,928698E+09	2,928724E+09	3,516525E+09	3,516462E+09	5,857422E+09	7,032987E+09	1,289041E+10
2940	2,928667E+09	2,928641E+09	3,516477E+09	3,516487E+09	5,857308E+09	7,032964E+09	1,289027E+10
2941	2,928650E+09	2,928680E+09	3,516544E+09	3,516528E+09	5,857330E+09	7,033073E+09	1,289040E+10
2942	2,928768E+09	2,928789E+09	3,516516E+09	3,516510E+09	5,857557E+09	7,033027E+09	1,289058E+10
2943	2,928692E+09	2,928701E+09	3,516480E+09	3,516529E+09	5,857393E+09	7,033009E+09	1,289040E+10
2944	2,928763E+09	2,928793E+09	3,516535E+09	3,516523E+09	5,857557E+09	7,033058E+09	1,289061E+10
2945	2,928849E+09	2,928803E+09	3,516496E+09	3,516499E+09	5,857652E+09	7,032995E+09	1,289065E+10
2946	2,928750E+09	2,928721E+09	3,516521E+09	3,516512E+09	5,857471E+09	7,033033E+09	1,289050E+10
2947	2,928828E+09	2,928864E+09	3,516525E+09	3,516501E+09	5,857692E+09	7,033026E+09	1,289072E+10
2948	2,928787E+09	2,928799E+09	3,516468E+09	3,516502E+09	5,857587E+09	7,032970E+09	1,289056E+10
2949	2,928707E+09	2,928736E+09	3,516540E+09	3,516521E+09	5,857443E+09	7,033061E+09	1,289050E+10
2950	2,928802E+09	2,928811E+09	3,516543E+09	3,516482E+09	5,857614E+09	7,033026E+09	1,289064E+10
2951	2,928700E+09	2,928661E+09	3,516487E+09	3,516498E+09	5,857361E+09	7,032985E+09	1,289035E+10
2952	2,928687E+09	2,928686E+09	3,516518E+09	3,516509E+09	5,857373E+09	7,033027E+09	1,289040E+10
2953	2,928756E+09	2,928737E+09	3,516460E+09	3,516497E+09	5,857493E+09	7,032957E+09	1,289045E+10
2954	2,928625E+09	2,928622E+09	3,516457E+09	3,516509E+09	5,857247E+09	7,032966E+09	1,289021E+10
2955	2,928688E+09	2,928745E+09	3,516495E+09	3,516474E+09	5,857433E+09	7,032969E+09	1,289040E+10
2956	2,928714E+09	2,928712E+09	3,516472E+09	3,516454E+09	5,857426E+09	7,032925E+09	1,289035E+10
2957	2,928645E+09	2,928629E+09	3,516529E+09	3,516489E+09	5,857274E+09	7,033018E+09	1,289029E+10
2958	2,928763E+09	2,928774E+09	3,516540E+09	3,516477E+09	5,857537E+09	7,033017E+09	1,289055E+10
2959	2,928708E+09	2,928710E+09	3,516474E+09	3,516515E+09	5,857418E+09	7,032988E+09	1,289041E+10
2960	2,928701E+09	2,928744E+09	3,516507E+09	3,516534E+09	5,857445E+09	7,033041E+09	1,289049E+10
2961	2,928844E+09	2,928858E+09	3,516494E+09	3,516510E+09	5,857702E+09	7,033005E+09	1,289071E+10
2962	2,928773E+09	2,928739E+09	3,516496E+09	3,516512E+09	5,857511E+09	7,033008E+09	1,289052E+10
2963	2,928845E+09	2,928849E+09	3,516531E+09	3,516487E+09	5,857694E+09	7,033018E+09	1,289071E+10
2964	2,928904E+09	2,928889E+09	3,516493E+09	3,516483E+09	5,857793E+09	7,032975E+09	1,289077E+10
2965	2,928799E+09	2,928787E+09	3,516508E+09	3,516530E+09	5,857586E+09	7,033038E+09	1,289062E+10
2966	2,928868E+09	2,928923E+09	3,516540E+09	3,516497E+09	5,857791E+09	7,033038E+09	1,289083E+10
2967	2,928816E+09	2,928843E+09	3,516501E+09	3,516501E+09	5,857658E+09	7,033002E+09	1,289066E+10
2968	2,928753E+09	2,928757E+09	3,516528E+09	3,516512E+09	5,857510E+09	7,033041E+09	1,289055E+10
2969	2,928861E+09	2,928846E+09	3,516516E+09	3,516500E+09	5,857707E+09	7,033017E+09	1,289072E+10
2970	2,928749E+09	2,928692E+09	3,516476E+09	3,516515E+09	5,857441E+09	7,032991E+09	1,289043E+10
2971	2,928735E+09	2,928752E+09	3,516479E+09	3,516496E+09	5,857487E+09	7,032975E+09	1,289046E+10
2972	2,928800E+09	2,928822E+09	3,516449E+09	3,516472E+09	5,857622E+09	7,032920E+09	1,289054E+10
2973	2,928691E+09	2,928665E+09	3,516466E+09	3,516491E+09	5,857356E+09	7,032957E+09	1,289031E+10
2974	2,928756E+09	2,928783E+09	3,516532E+09	3,516441E+09	5,857539E+09	7,032974E+09	1,289051E+10
2975	2,928761E+09	2,928763E+09	3,516498E+09	3,516452E+09	5,857524E+09	7,032950E+09	1,289047E+10
2976	2,928688E+09	2,928682E+09	3,516500E+09	3,516503E+09	5,857370E+09	7,033003E+09	1,289037E+10
2977	2,928813E+09	2,928855E+09	3,516505E+09	3,516513E+09	5,857668E+09	7,033018E+09	1,289069E+10
2978	2,928762E+09	2,928766E+09	3,516476E+09	3,516530E+09	5,857528E+09	7,033006E+09	1,289053E+10

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	2,928775E+09	2,928803E+09	3,516503E+09	3,516509E+09	5,857578E+09	7,033012E+09	1,289059E+10
2980	2,928927E+09	2,928930E+09	3,516505E+09	3,516482E+09	5,857857E+09	7,032987E+09	1,289084E+10
2981	2,928860E+09	2,928784E+09	3,516494E+09	3,516514E+09	5,857644E+09	7,033009E+09	1,289065E+10
2982	2,928910E+09	2,928916E+09	3,516541E+09	3,516481E+09	5,857826E+09	7,033022E+09	1,289085E+10
2983	2,928935E+09	2,928972E+09	3,516493E+09	3,516490E+09	5,857907E+09	7,032984E+09	1,289089E+10
2984	2,928826E+09	2,928841E+09	3,516486E+09	3,516530E+09	5,857667E+09	7,033016E+09	1,289068E+10
2985	2,928916E+09	2,928969E+09	3,516535E+09	3,516502E+09	5,857885E+09	7,033037E+09	1,289092E+10
2986	2,928871E+09	2,928852E+09	3,516515E+09	3,516500E+09	5,857723E+09	7,033015E+09	1,289074E+10
2987	2,928814E+09	2,928790E+09	3,516503E+09	3,516496E+09	5,857604E+09	7,032998E+09	1,289060E+10
2988	2,928913E+09	2,928916E+09	3,516489E+09	3,516487E+09	5,857828E+09	7,032976E+09	1,289080E+10
2989	2,928801E+09	2,928752E+09	3,516449E+09	3,516517E+09	5,857553E+09	7,032966E+09	1,289052E+10
2990	2,928784E+09	2,928816E+09	3,516495E+09	3,516464E+09	5,857600E+09	7,032959E+09	1,289056E+10
2991	2,928838E+09	2,928881E+09	3,516488E+09	3,516449E+09	5,857718E+09	7,032936E+09	1,289065E+10
2992	2,928737E+09	2,928701E+09	3,516474E+09	3,516484E+09	5,857438E+09	7,032958E+09	1,289040E+10
2993	2,928809E+09	2,928832E+09	3,516529E+09	3,516471E+09	5,857641E+09	7,033000E+09	1,289064E+10
2994	2,928805E+09	2,928804E+09	3,516503E+09	3,516493E+09	5,857609E+09	7,032996E+09	1,289061E+10
2995	2,928741E+09	2,928753E+09	3,516463E+09	3,516514E+09	5,857494E+09	7,032977E+09	1,289047E+10
2996	2,928881E+09	2,928932E+09	3,516491E+09	3,516502E+09	5,857813E+09	7,032994E+09	1,289081E+10
2997	2,928858E+09	2,928814E+09	3,516475E+09	3,516515E+09	5,857672E+09	7,032990E+09	1,289066E+10
2998	2,928875E+09	2,928856E+09	3,516514E+09	3,516466E+09	5,857730E+09	7,032980E+09	1,289071E+10
2999	2,928989E+09	2,929004E+09	3,516514E+09	3,516465E+09	5,857992E+09	7,032980E+09	1,289097E+10