

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							
-3000	1,935778E+22	1,935658E+22	1,399676E+21	1,399943E+21	3,871437E+22	2,799619E+21	4,151398E+22
-2999	1,935608E+22	1,935702E+22	1,400020E+21	1,399806E+21	3,871310E+22	2,799826E+21	4,151292E+22
-2998	1,935602E+22	1,935628E+22	1,400015E+21	1,400153E+21	3,871230E+22	2,800168E+21	4,151247E+22
-2997	1,935604E+22	1,935505E+22	1,399905E+21	1,400018E+21	3,871109E+22	2,799923E+21	4,151101E+22
-2996	1,935430E+22	1,935514E+22	1,400275E+21	1,400014E+21	3,870944E+22	2,800289E+21	4,150973E+22
-2995	1,935477E+22	1,935402E+22	1,400043E+21	1,400316E+21	3,870879E+22	2,800360E+21	4,150915E+22
-2994	1,935411E+22	1,935378E+22	1,400110E+21	1,400092E+21	3,870789E+22	2,800202E+21	4,150809E+22
-2993	1,935329E+22	1,935412E+22	1,400326E+21	1,400241E+21	3,870741E+22	2,800567E+21	4,150798E+22
-2992	1,935444E+22	1,935328E+22	1,400006E+21	1,400313E+21	3,870772E+22	2,800319E+21	4,150804E+22
-2991	1,935358E+22	1,935407E+22	1,400234E+21	1,400009E+21	3,870765E+22	2,800242E+21	4,150789E+22
-2990	1,935401E+22	1,935448E+22	1,400240E+21	1,400224E+21	3,870849E+22	2,800464E+21	4,150895E+22
-2989	1,935505E+22	1,935416E+22	1,399950E+21	1,400089E+21	3,870921E+22	2,800039E+21	4,150925E+22
-2988	1,935411E+22	1,935530E+22	1,400189E+21	1,399928E+21	3,870941E+22	2,800118E+21	4,150953E+22
-2987	1,935536E+22	1,935526E+22	1,399962E+21	1,400202E+21	3,871062E+22	2,800164E+21	4,151078E+22
-2986	1,935597E+22	1,935547E+22	1,399852E+21	1,399913E+21	3,871143E+22	2,799765E+21	4,151120E+22
-2985	1,935565E+22	1,935641E+22	1,400092E+21	1,399912E+21	3,871206E+22	2,800003E+21	4,151206E+22
-2984	1,935702E+22	1,935588E+22	1,399779E+21	1,400049E+21	3,871290E+22	2,799828E+21	4,151273E+22
-2983	1,935624E+22	1,935632E+22	1,399926E+21	1,399787E+21	3,871256E+22	2,799713E+21	4,151227E+22
-2982	1,935576E+22	1,935658E+22	1,400091E+21	1,400035E+21	3,871234E+22	2,800126E+21	4,151247E+22
-2981	1,935636E+22	1,935544E+22	1,399821E+21	1,400080E+21	3,871180E+22	2,799901E+21	4,151170E+22
-2980	1,935476E+22	1,935549E+22	1,400150E+21	1,399934E+21	3,871025E+22	2,800084E+21	4,151033E+22
-2979	1,935478E+22	1,935475E+22	1,400128E+21	1,400263E+21	3,870952E+22	2,800391E+21	4,150991E+22
-2978	1,935476E+22	1,935371E+22	1,400018E+21	1,400145E+21	3,870847E+22	2,800163E+21	4,150863E+22
-2977	1,935315E+22	1,935390E+22	1,400363E+21	1,400146E+21	3,870705E+22	2,800509E+21	4,150756E+22
-2976	1,935362E+22	1,935291E+22	1,400130E+21	1,400434E+21	3,870653E+22	2,800564E+21	4,150710E+22
-2975	1,935289E+22	1,935264E+22	1,400224E+21	1,400212E+21	3,870553E+22	2,800437E+21	4,150597E+22
-2974	1,935218E+22	1,935316E+22	1,400450E+21	1,400319E+21	3,870534E+22	2,800769E+21	4,150611E+22
-2973	1,935340E+22	1,935234E+22	1,400145E+21	1,400393E+21	3,870574E+22	2,800538E+21	4,150628E+22
-2972	1,935253E+22	1,935290E+22	1,400335E+21	1,400099E+21	3,870543E+22	2,800434E+21	4,150586E+22
-2971	1,935287E+22	1,935340E+22	1,400308E+21	1,400328E+21	3,870627E+22	2,800636E+21	4,150690E+22
-2970	1,935397E+22	1,935320E+22	1,400017E+21	1,400214E+21	3,870717E+22	2,800231E+21	4,150740E+22
-2969	1,935336E+22	1,935430E+22	1,400247E+21	1,400026E+21	3,870766E+22	2,800272E+21	4,150793E+22
-2968	1,935471E+22	1,935437E+22	1,400033E+21	1,400250E+21	3,870908E+22	2,800284E+21	4,150936E+22
-2967	1,935517E+22	1,935452E+22	1,399957E+21	1,399968E+21	3,870969E+22	2,799925E+21	4,150961E+22
-2966	1,935465E+22	1,935564E+22	1,400206E+21	1,399968E+21	3,871029E+22	2,800175E+21	4,151046E+22
-2965	1,935581E+22	1,935506E+22	1,399906E+21	1,400159E+21	3,871087E+22	2,800064E+21	4,151093E+22
-2964	1,935495E+22	1,935506E+22	1,400033E+21	1,399931E+21	3,871001E+22	2,799964E+21	4,150997E+22
-2963	1,935445E+22	1,935524E+22	1,400192E+21	1,400171E+21	3,870969E+22	2,800363E+21	4,151005E+22
-2962	1,935511E+22	1,935412E+22	1,399938E+21	1,400213E+21	3,870923E+22	2,800151E+21	4,150938E+22
-2961	1,935375E+22	1,935408E+22	1,400260E+21	1,400047E+21	3,870782E+22	2,800308E+21	4,150813E+22
-2960	1,935364E+22	1,935347E+22	1,400233E+21	1,400360E+21	3,870711E+22	2,800593E+21	4,150770E+22
-2959	1,935333E+22	1,935241E+22	1,400140E+21	1,400283E+21	3,870575E+22	2,800423E+21	4,150617E+22
-2958	1,935175E+22	1,935280E+22	1,400485E+21	1,400271E+21	3,870454E+22	2,800756E+21	4,150530E+22
-2957	1,935235E+22	1,935182E+22	1,400271E+21	1,400560E+21	3,870416E+22	2,800831E+21	4,150499E+22
-2956	1,935179E+22	1,935132E+22	1,400343E+21	1,400316E+21	3,870311E+22	2,800660E+21	4,150377E+22
-2955	1,935116E+22	1,935197E+22	1,400548E+21	1,400395E+21	3,870313E+22	2,800942E+21	4,150407E+22
-2954	1,935232E+22	1,935137E+22	1,400236E+21	1,400483E+21	3,870368E+22	2,800719E+21	4,150440E+22
-2953	1,935161E+22	1,935194E+22	1,400396E+21	1,400202E+21	3,870355E+22	2,800597E+21	4,150415E+22
-2952	1,935197E+22	1,935250E+22	1,400365E+21	1,400407E+21	3,870447E+22	2,800772E+21	4,150524E+22

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	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	1,935298E+22	1,935226E+22	1,400106E+21	1,400305E+21	3,870524E+22	2,800411E+21	4,150565E+22
-2950	1,935252E+22	1,935351E+22	1,400346E+21	1,400081E+21	3,870603E+22	2,800427E+21	4,150645E+22
-2949	1,935388E+22	1,935353E+22	1,400161E+21	1,400320E+21	3,870741E+22	2,800481E+21	4,150789E+22
-2948	1,935418E+22	1,935342E+22	1,400057E+21	1,400067E+21	3,870760E+22	2,800124E+21	4,150773E+22
-2947	1,935347E+22	1,935454E+22	1,400288E+21	1,400087E+21	3,870801E+22	2,800375E+21	4,150838E+22
-2946	1,935455E+22	1,935398E+22	1,400001E+21	1,400300E+21	3,870852E+22	2,800301E+21	4,150882E+22
-2945	1,935393E+22	1,935381E+22	1,400123E+21	1,400063E+21	3,870775E+22	2,800186E+21	4,150793E+22
-2944	1,935343E+22	1,935399E+22	1,400293E+21	1,400253E+21	3,870742E+22	2,800546E+21	4,150797E+22
-2943	1,935389E+22	1,935282E+22	1,400071E+21	1,400317E+21	3,870671E+22	2,800388E+21	4,150710E+22
-2942	1,935243E+22	1,935293E+22	1,400389E+21	1,400147E+21	3,870536E+22	2,800535E+21	4,150589E+22
-2941	1,935224E+22	1,935231E+22	1,400374E+21	1,400500E+21	3,870455E+22	2,800874E+21	4,150542E+22
-2940	1,935196E+22	1,935099E+22	1,400260E+21	1,400437E+21	3,870296E+22	2,800697E+21	4,150365E+22
-2939	1,935047E+22	1,935146E+22	1,400593E+21	1,400396E+21	3,870193E+22	2,800989E+21	4,150292E+22
-2938	1,935122E+22	1,935065E+22	1,400397E+21	1,400665E+21	3,870187E+22	2,801062E+21	4,150294E+22
-2937	1,935090E+22	1,935013E+22	1,400447E+21	1,400403E+21	3,870103E+22	2,800849E+21	4,150188E+22
-2936	1,935011E+22	1,935097E+22	1,400633E+21	1,400456E+21	3,870108E+22	2,801089E+21	4,150217E+22
-2935	1,935104E+22	1,935036E+22	1,400332E+21	1,400588E+21	3,870141E+22	2,800920E+21	4,150233E+22
-2934	1,935044E+22	1,935105E+22	1,400488E+21	1,400290E+21	3,870149E+22	2,800778E+21	4,150227E+22
-2933	1,935099E+22	1,935161E+22	1,400479E+21	1,400499E+21	3,870260E+22	2,800978E+21	4,150358E+22
-2932	1,935215E+22	1,935114E+22	1,400200E+21	1,400387E+21	3,870328E+22	2,800587E+21	4,150387E+22
-2931	1,935170E+22	1,935250E+22	1,400420E+21	1,400157E+21	3,870420E+22	2,800577E+21	4,150478E+22
-2930	1,935294E+22	1,935269E+22	1,400241E+21	1,400418E+21	3,870563E+22	2,800659E+21	4,150629E+22
-2929	1,935331E+22	1,935247E+22	1,400116E+21	1,400191E+21	3,870578E+22	2,800307E+21	4,150608E+22
-2928	1,935249E+22	1,935356E+22	1,400358E+21	1,400184E+21	3,870605E+22	2,800542E+21	4,150659E+22
-2927	1,935335E+22	1,935288E+22	1,400116E+21	1,400410E+21	3,870623E+22	2,800526E+21	4,150676E+22
-2926	1,935280E+22	1,935272E+22	1,400260E+21	1,400145E+21	3,870552E+22	2,800405E+21	4,150593E+22
-2925	1,935225E+22	1,935280E+22	1,400454E+21	1,400355E+21	3,870505E+22	2,800808E+21	4,150586E+22
-2924	1,935251E+22	1,935137E+22	1,400202E+21	1,400455E+21	3,870388E+22	2,800658E+21	4,150454E+22
-2923	1,935099E+22	1,935151E+22	1,400491E+21	1,400300E+21	3,870251E+22	2,800791E+21	4,150330E+22
-2922	1,935086E+22	1,935099E+22	1,400490E+21	1,400650E+21	3,870185E+22	2,801140E+21	4,150299E+22
-2921	1,935091E+22	1,934967E+22	1,400365E+21	1,400566E+21	3,870058E+22	2,800930E+21	4,150151E+22
-2920	1,934948E+22	1,935027E+22	1,400697E+21	1,400460E+21	3,869974E+22	2,801157E+21	4,150090E+22
-2919	1,934999E+22	1,934954E+22	1,400528E+21	1,400745E+21	3,869953E+22	2,801273E+21	4,150081E+22
-2918	1,934962E+22	1,934923E+22	1,400561E+21	1,400483E+21	3,869885E+22	2,801044E+21	4,149990E+22
-2917	1,934884E+22	1,935001E+22	1,400748E+21	1,400571E+21	3,869885E+22	2,801319E+21	4,150017E+22
-2916	1,934984E+22	1,934916E+22	1,400420E+21	1,400716E+21	3,869900E+22	2,801136E+21	4,150014E+22
-2915	1,934949E+22	1,934991E+22	1,400555E+21	1,400394E+21	3,869939E+22	2,800949E+21	4,150034E+22
-2914	1,935024E+22	1,935062E+22	1,400566E+21	1,400584E+21	3,870085E+22	2,801150E+21	4,150200E+22
-2913	1,935157E+22	1,935018E+22	1,400269E+21	1,400470E+21	3,870176E+22	2,800740E+21	4,150250E+22
-2912	1,935091E+22	1,935168E+22	1,400479E+21	1,400221E+21	3,870259E+22	2,800700E+21	4,150329E+22
-2911	1,935179E+22	1,935185E+22	1,400337E+21	1,400519E+21	3,870364E+22	2,800855E+21	4,150450E+22
-2910	1,935216E+22	1,935162E+22	1,400226E+21	1,400280E+21	3,870378E+22	2,800506E+21	4,150428E+22
-2909	1,935137E+22	1,935254E+22	1,400503E+21	1,400280E+21	3,870392E+22	2,800782E+21	4,150470E+22
-2908	1,935218E+22	1,935153E+22	1,400249E+21	1,400510E+21	3,870371E+22	2,800760E+21	4,150447E+22
-2907	1,935156E+22	1,935137E+22	1,400373E+21	1,400255E+21	3,870293E+22	2,800627E+21	4,150356E+22
-2906	1,935093E+22	1,935154E+22	1,400567E+21	1,400493E+21	3,870247E+22	2,801060E+21	4,150353E+22
-2905	1,935132E+22	1,935002E+22	1,400293E+21	1,400614E+21	3,870134E+22	2,800908E+21	4,150225E+22
-2904	1,934978E+22	1,935025E+22	1,400580E+21	1,400420E+21	3,870003E+22	2,801000E+21	4,150103E+22
-2903	1,934956E+22	1,934978E+22	1,400622E+21	1,400766E+21	3,869935E+22	2,801389E+21	4,150074E+22

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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	1,934971E+22	1,934858E+22	1,400513E+21	1,400644E+21	3,869828E+22	2,801157E+21	4,149944E+22
-2901	1,934824E+22	1,934917E+22	1,400854E+21	1,400555E+21	3,869741E+22	2,801409E+21	4,149882E+22
-2900	1,934855E+22	1,934825E+22	1,400646E+21	1,400867E+21	3,869679E+22	2,801513E+21	4,149831E+22
-2899	1,934824E+22	1,934795E+22	1,400643E+21	1,400620E+21	3,869620E+22	2,801263E+21	4,149746E+22
-2898	1,934772E+22	1,934883E+22	1,400832E+21	1,400699E+21	3,869656E+22	2,801530E+21	4,149809E+22
-2897	1,934914E+22	1,934803E+22	1,400484E+21	1,400820E+21	3,869717E+22	2,801304E+21	4,149847E+22
-2896	1,934891E+22	1,934899E+22	1,400610E+21	1,400438E+21	3,869790E+22	2,801047E+21	4,149895E+22
-2895	1,934943E+22	1,934987E+22	1,400654E+21	1,400643E+21	3,869930E+22	2,801298E+21	4,150059E+22
-2894	1,935063E+22	1,934961E+22	1,400364E+21	1,400530E+21	3,870024E+22	2,800893E+21	4,150114E+22
-2893	1,934986E+22	1,935096E+22	1,400594E+21	1,400319E+21	3,870082E+22	2,800913E+21	4,150174E+22
-2892	1,935055E+22	1,935077E+22	1,400445E+21	1,400629E+21	3,870132E+22	2,801074E+21	4,150240E+22
-2891	1,935102E+22	1,935042E+22	1,400328E+21	1,400392E+21	3,870144E+22	2,800720E+21	4,150216E+22
-2890	1,935031E+22	1,935126E+22	1,400624E+21	1,400388E+21	3,870158E+22	2,801012E+21	4,150259E+22
-2889	1,935118E+22	1,935019E+22	1,400346E+21	1,400639E+21	3,870137E+22	2,800985E+21	4,150235E+22
-2888	1,935041E+22	1,935010E+22	1,400446E+21	1,400373E+21	3,870051E+22	2,800819E+21	4,150133E+22
-2887	1,934952E+22	1,935031E+22	1,400675E+21	1,400637E+21	3,869983E+22	2,801312E+21	4,150114E+22
-2886	1,935000E+22	1,934891E+22	1,400426E+21	1,400730E+21	3,869892E+22	2,801155E+21	4,150007E+22
-2885	1,934857E+22	1,934908E+22	1,400741E+21	1,400530E+21	3,869765E+22	2,801271E+21	4,149892E+22
-2884	1,934822E+22	1,934841E+22	1,400771E+21	1,400866E+21	3,869663E+22	2,801638E+21	4,149826E+22
-2883	1,934834E+22	1,934726E+22	1,400632E+21	1,400760E+21	3,869560E+22	2,801392E+21	4,149699E+22
-2882	1,934687E+22	1,934791E+22	1,400960E+21	1,400691E+21	3,869478E+22	2,801652E+21	4,149643E+22
-2881	1,934741E+22	1,934695E+22	1,400718E+21	1,401013E+21	3,869435E+22	2,801731E+21	4,149609E+22
-2880	1,934727E+22	1,934680E+22	1,400697E+21	1,400717E+21	3,869407E+22	2,801414E+21	4,149548E+22
-2879	1,934682E+22	1,934785E+22	1,400924E+21	1,400780E+21	3,869467E+22	2,801705E+21	4,149637E+22
-2878	1,934839E+22	1,934728E+22	1,400601E+21	1,400859E+21	3,869567E+22	2,801460E+21	4,149713E+22
-2877	1,934809E+22	1,934830E+22	1,400733E+21	1,400502E+21	3,869639E+22	2,801235E+21	4,149762E+22
-2876	1,934826E+22	1,934897E+22	1,400754E+21	1,400734E+21	3,869723E+22	2,801488E+21	4,149872E+22
-2875	1,934940E+22	1,934861E+22	1,400445E+21	1,400642E+21	3,869802E+22	2,801087E+21	4,149910E+22
-2874	1,934876E+22	1,934986E+22	1,400691E+21	1,400439E+21	3,869862E+22	2,801130E+21	4,149975E+22
-2873	1,934967E+22	1,934952E+22	1,400527E+21	1,400736E+21	3,869919E+22	2,801264E+21	4,150046E+22
-2872	1,935014E+22	1,934922E+22	1,400401E+21	1,400470E+21	3,869936E+22	2,800870E+21	4,150023E+22
-2871	1,934922E+22	1,935016E+22	1,400719E+21	1,400496E+21	3,869938E+22	2,801215E+21	4,150060E+22
-2870	1,934999E+22	1,934921E+22	1,400456E+21	1,400747E+21	3,869921E+22	2,801203E+21	4,150041E+22
-2869	1,934919E+22	1,934903E+22	1,400575E+21	1,400510E+21	3,869822E+22	2,801085E+21	4,149931E+22
-2868	1,934812E+22	1,934899E+22	1,400804E+21	1,400766E+21	3,869711E+22	2,801570E+21	4,149868E+22
-2867	1,934868E+22	1,934756E+22	1,400561E+21	1,400850E+21	3,869624E+22	2,801411E+21	4,149765E+22
-2866	1,934733E+22	1,934770E+22	1,400892E+21	1,400651E+21	3,869503E+22	2,801543E+21	4,149657E+22
-2865	1,934697E+22	1,934701E+22	1,400883E+21	1,400996E+21	3,869398E+22	2,801879E+21	4,149586E+22
-2864	1,934702E+22	1,934595E+22	1,400711E+21	1,400881E+21	3,869297E+22	2,801591E+21	4,149456E+22
-2863	1,934552E+22	1,934667E+22	1,401052E+21	1,400822E+21	3,869220E+22	2,801875E+21	4,149407E+22
-2862	1,934632E+22	1,934594E+22	1,400829E+21	1,401099E+21	3,869226E+22	2,801928E+21	4,149419E+22
-2861	1,934643E+22	1,934587E+22	1,400821E+21	1,400790E+21	3,869230E+22	2,801611E+21	4,149391E+22
-2860	1,934584E+22	1,934685E+22	1,401035E+21	1,400842E+21	3,869269E+22	2,801877E+21	4,149457E+22
-2859	1,934737E+22	1,934642E+22	1,400693E+21	1,400941E+21	3,869379E+22	2,801635E+21	4,149542E+22
-2858	1,934703E+22	1,934739E+22	1,400819E+21	1,400615E+21	3,869443E+22	2,801434E+21	4,149586E+22
-2857	1,934726E+22	1,934793E+22	1,400813E+21	1,400855E+21	3,869519E+22	2,801668E+21	4,149686E+22
-2856	1,934849E+22	1,934755E+22	1,400493E+21	1,400734E+21	3,869604E+22	2,801227E+21	4,149727E+22
-2855	1,934784E+22	1,934878E+22	1,400780E+21	1,400531E+21	3,869661E+22	2,801311E+21	4,149792E+22
-2854	1,934880E+22	1,934858E+22	1,400645E+21	1,400801E+21	3,869738E+22	2,801447E+21	4,149883E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2853	1,934915E+22	1,934825E+22	1,400526E+21	1,400570E+21	3,869740E+22	2,801096E+21	4,149850E+22
-2852	1,934785E+22	1,934897E+22	1,400828E+21	1,400621E+21	3,869681E+22	2,801450E+21	4,149826E+22
-2851	1,934861E+22	1,934796E+22	1,400571E+21	1,400884E+21	3,869657E+22	2,801455E+21	4,149803E+22
-2850	1,934793E+22	1,934770E+22	1,400710E+21	1,400651E+21	3,869563E+22	2,801361E+21	4,149699E+22
-2849	1,934699E+22	1,934757E+22	1,400925E+21	1,400883E+21	3,869456E+22	2,801808E+21	4,149636E+22
-2848	1,934750E+22	1,934621E+22	1,400669E+21	1,400944E+21	3,869371E+22	2,801613E+21	4,149532E+22
-2847	1,934594E+22	1,934645E+22	1,401013E+21	1,400775E+21	3,869240E+22	2,801788E+21	4,149418E+22
-2846	1,934559E+22	1,934590E+22	1,401007E+21	1,401106E+21	3,869149E+22	2,802113E+21	4,149360E+22
-2845	1,934574E+22	1,934482E+22	1,400836E+21	1,401011E+21	3,869056E+22	2,801847E+21	4,149241E+22
-2844	1,934424E+22	1,934540E+22	1,401160E+21	1,400935E+21	3,868965E+22	2,802095E+21	4,149174E+22
-2843	1,934527E+22	1,934476E+22	1,400944E+21	1,401188E+21	3,869003E+22	2,802132E+21	4,149216E+22
-2842	1,934552E+22	1,934481E+22	1,400938E+21	1,400886E+21	3,869034E+22	2,801823E+21	4,149216E+22
-2841	1,934493E+22	1,934582E+22	1,401106E+21	1,400941E+21	3,869075E+22	2,802048E+21	4,149280E+22
-2840	1,934633E+22	1,934546E+22	1,400741E+21	1,401031E+21	3,869180E+22	2,801772E+21	4,149357E+22
-2839	1,934598E+22	1,934646E+22	1,400887E+21	1,400723E+21	3,869244E+22	2,801610E+21	4,149405E+22
-2838	1,934637E+22	1,934708E+22	1,400910E+21	1,400916E+21	3,869345E+22	2,801826E+21	4,149527E+22
-2837	1,934771E+22	1,934667E+22	1,400608E+21	1,400801E+21	3,869437E+22	2,801409E+21	4,149578E+22
-2836	1,934682E+22	1,934770E+22	1,400883E+21	1,400607E+21	3,869452E+22	2,801489E+21	4,149601E+22
-2835	1,934767E+22	1,934753E+22	1,400749E+21	1,400904E+21	3,869520E+22	2,801653E+21	4,149685E+22
-2834	1,934797E+22	1,934713E+22	1,400635E+21	1,400715E+21	3,869511E+22	2,801350E+21	4,149646E+22
-2833	1,934669E+22	1,934768E+22	1,400916E+21	1,400765E+21	3,869438E+22	2,801681E+21	4,149606E+22
-2832	1,934746E+22	1,934668E+22	1,400664E+21	1,400996E+21	3,869414E+22	2,801660E+21	4,149580E+22
-2831	1,934675E+22	1,934641E+22	1,400843E+21	1,400767E+21	3,869316E+22	2,801611E+21	4,149477E+22
-2830	1,934577E+22	1,934641E+22	1,401079E+21	1,400969E+21	3,869218E+22	2,802048E+21	4,149423E+22
-2829	1,934614E+22	1,934504E+22	1,400816E+21	1,401070E+21	3,869118E+22	2,801886E+21	4,149306E+22
-2828	1,934430E+22	1,934502E+22	1,401133E+21	1,400917E+21	3,868932E+22	2,802050E+21	4,149137E+22
-2827	1,934412E+22	1,934449E+22	1,401126E+21	1,401243E+21	3,868861E+22	2,802369E+21	4,149098E+22
-2826	1,934457E+22	1,934345E+22	1,400961E+21	1,401140E+21	3,868802E+22	2,802101E+21	4,149012E+22
-2825	1,934332E+22	1,934411E+22	1,401250E+21	1,401033E+21	3,868742E+22	2,802282E+21	4,148970E+22
-2824	1,934439E+22	1,934371E+22	1,401017E+21	1,401260E+21	3,868810E+22	2,802277E+21	4,149038E+22
-2823	1,934451E+22	1,934395E+22	1,401016E+21	1,400981E+21	3,868846E+22	2,801997E+21	4,149046E+22
-2822	1,934394E+22	1,934510E+22	1,401194E+21	1,401012E+21	3,868904E+22	2,802206E+21	4,149124E+22
-2821	1,934537E+22	1,934469E+22	1,400838E+21	1,401114E+21	3,869006E+22	2,801952E+21	4,149201E+22
-2820	1,934489E+22	1,934542E+22	1,400983E+21	1,400802E+21	3,869031E+22	2,801785E+21	4,149209E+22
-2819	1,934541E+22	1,934602E+22	1,401026E+21	1,400986E+21	3,869143E+22	2,802012E+21	4,149345E+22
-2818	1,934677E+22	1,934560E+22	1,400730E+21	1,400906E+21	3,869237E+22	2,801636E+21	4,149401E+22
-2817	1,934580E+22	1,934655E+22	1,400957E+21	1,400732E+21	3,869235E+22	2,801689E+21	4,149404E+22
-2816	1,934653E+22	1,934638E+22	1,400814E+21	1,401025E+21	3,869291E+22	2,801839E+21	4,149475E+22
-2815	1,934681E+22	1,934599E+22	1,400731E+21	1,400851E+21	3,869280E+22	2,801581E+21	4,149438E+22
-2814	1,934564E+22	1,934661E+22	1,401047E+21	1,400849E+21	3,869225E+22	2,801896E+21	4,149414E+22
-2813	1,934637E+22	1,934558E+22	1,400817E+21	1,401083E+21	3,869195E+22	2,801901E+21	4,149385E+22
-2812	1,934532E+22	1,934511E+22	1,400986E+21	1,400879E+21	3,869043E+22	2,801866E+21	4,149229E+22
-2811	1,934422E+22	1,934508E+22	1,401215E+21	1,401097E+21	3,868930E+22	2,802312E+21	4,149161E+22
-2810	1,934464E+22	1,934363E+22	1,400947E+21	1,401238E+21	3,868827E+22	2,802185E+21	4,149045E+22
-2809	1,934300E+22	1,934349E+22	1,401216E+21	1,401072E+21	3,868650E+22	2,802288E+21	4,148878E+22
-2808	1,934301E+22	1,934309E+22	1,401209E+21	1,401350E+21	3,868610E+22	2,802559E+21	4,148866E+22
-2807	1,934361E+22	1,934230E+22	1,401071E+21	1,401239E+21	3,868591E+22	2,802309E+21	4,148822E+22
-2806	1,934243E+22	1,934323E+22	1,401368E+21	1,401091E+21	3,868566E+22	2,802459E+21	4,148812E+22
-2805	1,934335E+22	1,934294E+22	1,401131E+21	1,401340E+21	3,868630E+22	2,802471E+21	4,148877E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2804	1,934320E+22	1,934297E+22	1,401110E+21	1,401080E+21	3,868617E+22	2,802190E+21	4,148836E+22
-2803	1,934274E+22	1,934408E+22	1,401296E+21	1,401100E+21	3,868682E+22	2,802396E+21	4,148922E+22
-2802	1,934438E+22	1,934363E+22	1,400950E+21	1,401213E+21	3,868801E+22	2,802162E+21	4,149017E+22
-2801	1,934406E+22	1,934425E+22	1,401056E+21	1,400892E+21	3,868831E+22	2,801948E+21	4,149025E+22
-2800	1,934456E+22	1,934496E+22	1,401090E+21	1,401071E+21	3,868952E+22	2,802160E+21	4,149168E+22
-2799	1,934579E+22	1,934467E+22	1,400805E+21	1,401027E+21	3,869046E+22	2,801831E+21	4,149229E+22
-2798	1,934484E+22	1,934569E+22	1,401045E+21	1,400835E+21	3,869053E+22	2,801880E+21	4,149241E+22
-2797	1,934553E+22	1,934547E+22	1,400924E+21	1,401129E+21	3,869100E+22	2,802053E+21	4,149305E+22
-2796	1,934554E+22	1,934479E+22	1,400858E+21	1,400952E+21	3,869033E+22	2,801810E+21	4,149214E+22
-2795	1,934437E+22	1,934536E+22	1,401206E+21	1,400941E+21	3,868973E+22	2,802147E+21	4,149188E+22
-2794	1,934500E+22	1,934425E+22	1,400978E+21	1,401216E+21	3,868925E+22	2,802194E+21	4,149144E+22
-2793	1,934382E+22	1,934359E+22	1,401093E+21	1,401037E+21	3,868741E+22	2,802130E+21	4,148954E+22
-2792	1,934277E+22	1,934354E+22	1,401303E+21	1,401244E+21	3,868630E+22	2,802547E+21	4,148885E+22
-2791	1,934333E+22	1,934221E+22	1,401054E+21	1,401382E+21	3,868554E+22	2,802437E+21	4,148798E+22
-2790	1,934200E+22	1,934230E+22	1,401336E+21	1,401155E+21	3,868430E+22	2,802491E+21	4,148679E+22
-2789	1,934207E+22	1,934209E+22	1,401341E+21	1,401419E+21	3,868416E+22	2,802760E+21	4,148692E+22
-2788	1,934235E+22	1,934128E+22	1,401194E+21	1,401324E+21	3,868363E+22	2,802518E+21	4,148615E+22
-2787	1,934112E+22	1,934228E+22	1,401488E+21	1,401184E+21	3,868341E+22	2,802672E+21	4,148608E+22
-2786	1,934209E+22	1,934193E+22	1,401247E+21	1,401466E+21	3,868402E+22	2,802713E+21	4,148673E+22
-2785	1,934208E+22	1,934178E+22	1,401178E+21	1,401201E+21	3,868386E+22	2,802378E+21	4,148624E+22
-2784	1,934184E+22	1,934288E+22	1,401359E+21	1,401186E+21	3,868472E+22	2,802545E+21	4,148726E+22
-2783	1,934359E+22	1,934262E+22	1,401034E+21	1,401307E+21	3,868621E+22	2,802341E+21	4,148855E+22
-2782	1,934336E+22	1,934342E+22	1,401139E+21	1,400967E+21	3,868677E+22	2,802106E+21	4,148888E+22
-2781	1,934367E+22	1,934420E+22	1,401176E+21	1,401162E+21	3,868787E+22	2,802338E+21	4,149021E+22
-2780	1,934458E+22	1,934370E+22	1,400901E+21	1,401136E+21	3,868829E+22	2,802037E+21	4,149033E+22
-2779	1,934368E+22	1,934463E+22	1,401170E+21	1,400925E+21	3,868831E+22	2,802095E+21	4,149040E+22
-2778	1,934437E+22	1,934432E+22	1,401074E+21	1,401229E+21	3,868869E+22	2,802303E+21	4,149100E+22
-2777	1,934437E+22	1,934344E+22	1,400971E+21	1,401066E+21	3,868781E+22	2,802037E+21	4,148985E+22
-2776	1,934307E+22	1,934396E+22	1,401306E+21	1,401062E+21	3,868703E+22	2,802368E+21	4,148940E+22
-2775	1,934359E+22	1,934295E+22	1,401084E+21	1,401372E+21	3,868654E+22	2,802455E+21	4,148899E+22
-2774	1,934257E+22	1,934230E+22	1,401200E+21	1,401171E+21	3,868487E+22	2,802370E+21	4,148724E+22
-2773	1,934158E+22	1,934230E+22	1,401420E+21	1,401359E+21	3,868389E+22	2,802779E+21	4,148667E+22
-2772	1,934203E+22	1,934090E+22	1,401193E+21	1,401487E+21	3,868293E+22	2,802680E+21	4,148561E+22
-2771	1,934079E+22	1,934112E+22	1,401491E+21	1,401244E+21	3,868192E+22	2,802734E+21	4,148465E+22
-2770	1,934079E+22	1,934100E+22	1,401490E+21	1,401540E+21	3,868179E+22	2,803030E+21	4,148482E+22
-2769	1,934098E+22	1,934006E+22	1,401282E+21	1,401463E+21	3,868104E+22	2,802745E+21	4,148378E+22
-2768	1,933987E+22	1,934101E+22	1,401555E+21	1,401307E+21	3,868089E+22	2,802862E+21	4,148375E+22
-2767	1,934102E+22	1,934080E+22	1,401326E+21	1,401575E+21	3,868182E+22	2,802901E+21	4,148472E+22
-2766	1,934135E+22	1,934080E+22	1,401261E+21	1,401265E+21	3,868215E+22	2,802526E+21	4,148467E+22
-2765	1,934119E+22	1,934206E+22	1,401445E+21	1,401242E+21	3,868324E+22	2,802688E+21	4,148593E+22
-2764	1,934258E+22	1,934177E+22	1,401128E+21	1,401383E+21	3,868435E+22	2,802511E+21	4,148686E+22
-2763	1,934231E+22	1,934261E+22	1,401240E+21	1,401054E+21	3,868492E+22	2,802294E+21	4,148721E+22
-2762	1,934259E+22	1,934329E+22	1,401289E+21	1,401277E+21	3,868588E+22	2,802566E+21	4,148844E+22
-2761	1,934345E+22	1,934253E+22	1,400989E+21	1,401248E+21	3,868598E+22	2,802237E+21	4,148822E+22
-2760	1,934263E+22	1,934334E+22	1,401271E+21	1,401022E+21	3,868597E+22	2,802293E+21	4,148826E+22
-2759	1,934324E+22	1,934311E+22	1,401198E+21	1,401337E+21	3,868635E+22	2,802535E+21	4,148889E+22
-2758	1,934321E+22	1,934228E+22	1,401088E+21	1,401184E+21	3,868548E+22	2,802272E+21	4,148776E+22
-2757	1,934177E+22	1,934275E+22	1,401414E+21	1,401194E+21	3,868452E+22	2,802608E+21	4,148713E+22
-2756	1,934203E+22	1,934155E+22	1,401206E+21	1,401516E+21	3,868358E+22	2,802721E+21	4,148630E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2755	1,934122E+22	1,934094E+22	1,401342E+21	1,401287E+21	3,868216E+22	2,802629E+21	4,148479E+22
-2754	1,934036E+22	1,934100E+22	1,401575E+21	1,401477E+21	3,868136E+22	2,803052E+21	4,148441E+22
-2753	1,934078E+22	1,933957E+22	1,401314E+21	1,401607E+21	3,868035E+22	2,802921E+21	4,148327E+22
-2752	1,933953E+22	1,933984E+22	1,401588E+21	1,401367E+21	3,867938E+22	2,802955E+21	4,148233E+22
-2751	1,933949E+22	1,933989E+22	1,401584E+21	1,401673E+21	3,867939E+22	2,803258E+21	4,148264E+22
-2750	1,933992E+22	1,933901E+22	1,401364E+21	1,401575E+21	3,867893E+22	2,802939E+21	4,148187E+22
-2749	1,933893E+22	1,933999E+22	1,401636E+21	1,401386E+21	3,867893E+22	2,803022E+21	4,148195E+22
-2748	1,933999E+22	1,933975E+22	1,401434E+21	1,401643E+21	3,867974E+22	2,803077E+21	4,148282E+22
-2747	1,934047E+22	1,933987E+22	1,401382E+21	1,401321E+21	3,868033E+22	2,802703E+21	4,148304E+22
-2746	1,934020E+22	1,934121E+22	1,401559E+21	1,401341E+21	3,868140E+22	2,802900E+21	4,148430E+22
-2745	1,934147E+22	1,934076E+22	1,401201E+21	1,401501E+21	3,868222E+22	2,802702E+21	4,148492E+22
-2744	1,934127E+22	1,934147E+22	1,401306E+21	1,401167E+21	3,868275E+22	2,802473E+21	4,148522E+22
-2743	1,934160E+22	1,934224E+22	1,401379E+21	1,401374E+21	3,868384E+22	2,802752E+21	4,148659E+22
-2742	1,934262E+22	1,934150E+22	1,401089E+21	1,401326E+21	3,868412E+22	2,802415E+21	4,148653E+22
-2741	1,934167E+22	1,934229E+22	1,401377E+21	1,401107E+21	3,868396E+22	2,802485E+21	4,148645E+22
-2740	1,934183E+22	1,934196E+22	1,401320E+21	1,401455E+21	3,868378E+22	2,802775E+21	4,148656E+22
-2739	1,934178E+22	1,934106E+22	1,401221E+21	1,401318E+21	3,868284E+22	2,802539E+21	4,148538E+22
-2738	1,934038E+22	1,934143E+22	1,401547E+21	1,401353E+21	3,868181E+22	2,802900E+21	4,148471E+22
-2737	1,934067E+22	1,934004E+22	1,401319E+21	1,401658E+21	3,868071E+22	2,802976E+21	4,148369E+22
-2736	1,934006E+22	1,933942E+22	1,401460E+21	1,401410E+21	3,867948E+22	2,802871E+21	4,148235E+22
-2735	1,933917E+22	1,933973E+22	1,401703E+21	1,401594E+21	3,867891E+22	2,803297E+21	4,148221E+22
-2734	1,933959E+22	1,933845E+22	1,401430E+21	1,401725E+21	3,867804E+22	2,803155E+21	4,148120E+22
-2733	1,933830E+22	1,933875E+22	1,401688E+21	1,401482E+21	3,867705E+22	2,803170E+21	4,148022E+22
-2732	1,933806E+22	1,933869E+22	1,401701E+21	1,401772E+21	3,867674E+22	2,803472E+21	4,148022E+22
-2731	1,933874E+22	1,933789E+22	1,401494E+21	1,401645E+21	3,867663E+22	2,803140E+21	4,147977E+22
-2730	1,933796E+22	1,933892E+22	1,401759E+21	1,401468E+21	3,867688E+22	2,803228E+21	4,148011E+22
-2729	1,933897E+22	1,933865E+22	1,401524E+21	1,401731E+21	3,867761E+22	2,803255E+21	4,148087E+22
-2728	1,933951E+22	1,933884E+22	1,401446E+21	1,401428E+21	3,867834E+22	2,802875E+21	4,148122E+22
-2727	1,933923E+22	1,934032E+22	1,401625E+21	1,401454E+21	3,867955E+22	2,803079E+21	4,148263E+22
-2726	1,934064E+22	1,933989E+22	1,401269E+21	1,401599E+21	3,868054E+22	2,802868E+21	4,148340E+22
-2725	1,934048E+22	1,934056E+22	1,401383E+21	1,401245E+21	3,868103E+22	2,802627E+21	4,148366E+22
-2724	1,934050E+22	1,934120E+22	1,401499E+21	1,401445E+21	3,868170E+22	2,802945E+21	4,148464E+22
-2723	1,934148E+22	1,934048E+22	1,401231E+21	1,401412E+21	3,868196E+22	2,802643E+21	4,148460E+22
-2722	1,934037E+22	1,934115E+22	1,401510E+21	1,401250E+21	3,868152E+22	2,802759E+21	4,148428E+22
-2721	1,934036E+22	1,934054E+22	1,401424E+21	1,401611E+21	3,868089E+22	2,803035E+21	4,148393E+22
-2720	1,934049E+22	1,933950E+22	1,401319E+21	1,401469E+21	3,867999E+22	2,802788E+21	4,148278E+22
-2719	1,933921E+22	1,934004E+22	1,401658E+21	1,401476E+21	3,867925E+22	2,803135E+21	4,148239E+22
-2718	1,933970E+22	1,933879E+22	1,401441E+21	1,401761E+21	3,867849E+22	2,803202E+21	4,148169E+22
-2717	1,933896E+22	1,933829E+22	1,401578E+21	1,401508E+21	3,867724E+22	2,803085E+21	4,148033E+22
-2716	1,933766E+22	1,933861E+22	1,401838E+21	1,401702E+21	3,867626E+22	2,803541E+21	4,147980E+22
-2715	1,933813E+22	1,933732E+22	1,401574E+21	1,401836E+21	3,867545E+22	2,803410E+21	4,147886E+22
-2714	1,933691E+22	1,933753E+22	1,401821E+21	1,401611E+21	3,867443E+22	2,803432E+21	4,147787E+22
-2713	1,933676E+22	1,933731E+22	1,401806E+21	1,401878E+21	3,867406E+22	2,803684E+21	4,147775E+22
-2712	1,933774E+22	1,933653E+22	1,401589E+21	1,401746E+21	3,867427E+22	2,803335E+21	4,147761E+22
-2711	1,933704E+22	1,933788E+22	1,401839E+21	1,401570E+21	3,867492E+22	2,803409E+21	4,147833E+22
-2710	1,933814E+22	1,933778E+22	1,401590E+21	1,401839E+21	3,867591E+22	2,803429E+21	4,147934E+22
-2709	1,933866E+22	1,933799E+22	1,401500E+21	1,401525E+21	3,867665E+22	2,803025E+21	4,147968E+22
-2708	1,933817E+22	1,933941E+22	1,401716E+21	1,401529E+21	3,867758E+22	2,803245E+21	4,148082E+22
-2707	1,933969E+22	1,933902E+22	1,401395E+21	1,401649E+21	3,867870E+22	2,803044E+21	4,148175E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2706	1,933951E+22	1,933960E+22	1,401515E+21	1,401332E+21	3,867910E+22	2,802847E+21	4,148195E+22
-2705	1,933926E+22	1,934002E+22	1,401609E+21	1,401548E+21	3,867929E+22	2,803158E+21	4,148245E+22
-2704	1,934024E+22	1,933918E+22	1,401325E+21	1,401554E+21	3,867942E+22	2,802879E+21	4,148230E+22
-2703	1,933914E+22	1,933989E+22	1,401598E+21	1,401399E+21	3,867903E+22	2,802996E+21	4,148203E+22
-2702	1,933928E+22	1,933926E+22	1,401519E+21	1,401742E+21	3,867854E+22	2,803261E+21	4,148180E+22
-2701	1,933949E+22	1,933825E+22	1,401425E+21	1,401570E+21	3,867774E+22	2,802995E+21	4,148073E+22
-2700	1,933794E+22	1,933877E+22	1,401811E+21	1,401562E+21	3,867671E+22	2,803373E+21	4,148008E+22
-2699	1,933831E+22	1,933768E+22	1,401617E+21	1,401854E+21	3,867598E+22	2,803472E+21	4,147946E+22
-2698	1,933743E+22	1,933711E+22	1,401734E+21	1,401660E+21	3,867453E+22	2,803394E+21	4,147793E+22
-2697	1,933597E+22	1,933714E+22	1,401958E+21	1,401849E+21	3,867311E+22	2,803808E+21	4,147692E+22
-2696	1,933674E+22	1,933576E+22	1,401678E+21	1,401976E+21	3,867251E+22	2,803654E+21	4,147616E+22
-2695	1,933580E+22	1,933615E+22	1,401913E+21	1,401720E+21	3,867195E+22	2,803633E+21	4,147558E+22
-2694	1,933594E+22	1,933614E+22	1,401892E+21	1,401969E+21	3,867207E+22	2,803861E+21	4,147593E+22
-2693	1,933694E+22	1,933561E+22	1,401656E+21	1,401828E+21	3,867255E+22	2,803484E+21	4,147603E+22
-2692	1,933598E+22	1,933705E+22	1,401923E+21	1,401658E+21	3,867304E+22	2,803581E+21	4,147662E+22
-2691	1,933714E+22	1,933706E+22	1,401699E+21	1,401916E+21	3,867420E+22	2,803615E+21	4,147782E+22
-2690	1,933768E+22	1,933719E+22	1,401607E+21	1,401622E+21	3,867487E+22	2,803229E+21	4,147810E+22
-2689	1,933710E+22	1,933832E+22	1,401820E+21	1,401603E+21	3,867542E+22	2,803423E+21	4,147884E+22
-2688	1,933872E+22	1,933781E+22	1,401501E+21	1,401737E+21	3,867654E+22	2,803238E+21	4,147977E+22
-2687	1,933844E+22	1,933850E+22	1,401611E+21	1,401447E+21	3,867694E+22	2,803058E+21	4,148000E+22
-2686	1,933821E+22	1,933890E+22	1,401694E+21	1,401684E+21	3,867711E+22	2,803378E+21	4,148049E+22
-2685	1,933914E+22	1,933799E+22	1,401402E+21	1,401678E+21	3,867713E+22	2,803079E+21	4,148021E+22
-2684	1,933788E+22	1,933865E+22	1,401710E+21	1,401504E+21	3,867653E+22	2,803214E+21	4,147974E+22
-2683	1,933814E+22	1,933811E+22	1,401673E+21	1,401819E+21	3,867625E+22	2,803492E+21	4,147974E+22
-2682	1,933824E+22	1,933709E+22	1,401586E+21	1,401686E+21	3,867533E+22	2,803272E+21	4,147860E+22
-2681	1,933639E+22	1,933743E+22	1,401951E+21	1,401690E+21	3,867382E+22	2,803641E+21	4,147746E+22
-2680	1,933678E+22	1,933621E+22	1,401743E+21	1,402012E+21	3,867299E+22	2,803755E+21	4,147675E+22
-2679	1,933596E+22	1,933570E+22	1,401840E+21	1,401822E+21	3,867166E+22	2,803662E+21	4,147532E+22
-2678	1,933478E+22	1,933572E+22	1,402051E+21	1,401984E+21	3,867050E+22	2,804035E+21	4,147454E+22
-2677	1,933574E+22	1,933444E+22	1,401764E+21	1,402071E+21	3,867018E+22	2,803835E+21	4,147401E+22
-2676	1,933473E+22	1,933499E+22	1,402025E+21	1,401799E+21	3,866972E+22	2,803824E+21	4,147354E+22
-2675	1,933490E+22	1,933527E+22	1,402023E+21	1,402042E+21	3,867017E+22	2,804065E+21	4,147424E+22
-2674	1,933583E+22	1,933481E+22	1,401773E+21	1,401944E+21	3,867064E+22	2,803717E+21	4,147436E+22
-2673	1,933475E+22	1,933601E+22	1,402019E+21	1,401755E+21	3,867077E+22	2,803774E+21	4,147454E+22
-2672	1,933612E+22	1,933593E+22	1,401795E+21	1,402003E+21	3,867205E+22	2,803799E+21	4,147585E+22
-2671	1,933677E+22	1,933616E+22	1,401696E+21	1,401703E+21	3,867294E+22	2,803399E+21	4,147634E+22
-2670	1,933626E+22	1,933730E+22	1,401904E+21	1,401688E+21	3,867355E+22	2,803592E+21	4,147715E+22
-2669	1,933776E+22	1,933686E+22	1,401569E+21	1,401832E+21	3,867462E+22	2,803400E+21	4,147802E+22
-2668	1,933725E+22	1,933746E+22	1,401701E+21	1,401560E+21	3,867470E+22	2,803261E+21	4,147796E+22
-2667	1,933705E+22	1,933789E+22	1,401817E+21	1,401786E+21	3,867493E+22	2,803603E+21	4,147854E+22
-2666	1,933800E+22	1,933691E+22	1,401531E+21	1,401805E+21	3,867490E+22	2,803336E+21	4,147824E+22
-2665	1,933661E+22	1,933727E+22	1,401842E+21	1,401610E+21	3,867388E+22	2,803452E+21	4,147733E+22
-2664	1,933690E+22	1,933670E+22	1,401813E+21	1,401940E+21	3,867359E+22	2,803753E+21	4,147735E+22
-2663	1,933685E+22	1,933580E+22	1,401711E+21	1,401838E+21	3,867265E+22	2,803549E+21	4,147619E+22
-2662	1,933500E+22	1,933605E+22	1,402059E+21	1,401853E+21	3,867105E+22	2,803912E+21	4,147496E+22
-2661	1,933543E+22	1,933480E+22	1,401835E+21	1,402145E+21	3,867024E+22	2,803980E+21	4,147422E+22
-2660	1,933460E+22	1,933429E+22	1,401960E+21	1,401929E+21	3,866889E+22	2,803889E+21	4,147278E+22
-2659	1,933366E+22	1,933453E+22	1,402197E+21	1,402053E+21	3,866818E+22	2,804250E+21	4,147243E+22
-2658	1,933463E+22	1,933342E+22	1,401903E+21	1,402172E+21	3,866804E+22	2,804075E+21	4,147212E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2657	1,933344E+22	1,933389E+22	1,402134E+21	1,401904E+21	3,866733E+22	2,804038E+21	4,147137E+22
-2656	1,933376E+22	1,933417E+22	1,402120E+21	1,402164E+21	3,866792E+22	2,804284E+21	4,147221E+22
-2655	1,933474E+22	1,933384E+22	1,401856E+21	1,402061E+21	3,866857E+22	2,803917E+21	4,147249E+22
-2654	1,933389E+22	1,933498E+22	1,402092E+21	1,401852E+21	3,866887E+22	2,803944E+21	4,147282E+22
-2653	1,933531E+22	1,933490E+22	1,401867E+21	1,402059E+21	3,867021E+22	2,803926E+21	4,147414E+22
-2652	1,933576E+22	1,933519E+22	1,401795E+21	1,401777E+21	3,867095E+22	2,803572E+21	4,147452E+22
-2651	1,933522E+22	1,933643E+22	1,402017E+21	1,401776E+21	3,867165E+22	2,803793E+21	4,147544E+22
-2650	1,933658E+22	1,933593E+22	1,401678E+21	1,401968E+21	3,867251E+22	2,803646E+21	4,147616E+22
-2649	1,933597E+22	1,933620E+22	1,401798E+21	1,401683E+21	3,867217E+22	2,803482E+21	4,147565E+22
-2648	1,933598E+22	1,933652E+22	1,401926E+21	1,401898E+21	3,867250E+22	2,803823E+21	4,147632E+22
-2647	1,933693E+22	1,933567E+22	1,401649E+21	1,401913E+21	3,867260E+22	2,803562E+21	4,147616E+22
-2646	1,933553E+22	1,933602E+22	1,401955E+21	1,401733E+21	3,867156E+22	2,803687E+21	4,147524E+22
-2645	1,933561E+22	1,933549E+22	1,401913E+21	1,402058E+21	3,867110E+22	2,803970E+21	4,147507E+22
-2644	1,933533E+22	1,933454E+22	1,401837E+21	1,401979E+21	3,866987E+22	2,803816E+21	4,147369E+22
-2643	1,933358E+22	1,933479E+22	1,402206E+21	1,401971E+21	3,866838E+22	2,804177E+21	4,147255E+22
-2642	1,933406E+22	1,933353E+22	1,401984E+21	1,402270E+21	3,866759E+22	2,804254E+21	4,147185E+22
-2641	1,933324E+22	1,933279E+22	1,402100E+21	1,402031E+21	3,866603E+22	2,804131E+21	4,147016E+22
-2640	1,933245E+22	1,933313E+22	1,402327E+21	1,402168E+21	3,866559E+22	2,804495E+21	4,147008E+22
-2639	1,933338E+22	1,933231E+22	1,402012E+21	1,402311E+21	3,866569E+22	2,804323E+21	4,147001E+22
-2638	1,933233E+22	1,933276E+22	1,402212E+21	1,402043E+21	3,866509E+22	2,804255E+21	4,146934E+22
-2637	1,933274E+22	1,933311E+22	1,402182E+21	1,402254E+21	3,866585E+22	2,804436E+21	4,147028E+22
-2636	1,933373E+22	1,933283E+22	1,401945E+21	1,402129E+21	3,866656E+22	2,804074E+21	4,147063E+22
-2635	1,933302E+22	1,933410E+22	1,402207E+21	1,401895E+21	3,866712E+22	2,804103E+21	4,147122E+22
-2634	1,933432E+22	1,933412E+22	1,401978E+21	1,402143E+21	3,866844E+22	2,804121E+21	4,147256E+22
-2633	1,933455E+22	1,933414E+22	1,401887E+21	1,401882E+21	3,866869E+22	2,803769E+21	4,147246E+22
-2632	1,933415E+22	1,933528E+22	1,402102E+21	1,401906E+21	3,866942E+22	2,804009E+21	4,147343E+22
-2631	1,933553E+22	1,933484E+22	1,401765E+21	1,402100E+21	3,867037E+22	2,803864E+21	4,147424E+22
-2630	1,933509E+22	1,933498E+22	1,401881E+21	1,401801E+21	3,867007E+22	2,803682E+21	4,147375E+22
-2629	1,933507E+22	1,933533E+22	1,402017E+21	1,401973E+21	3,867040E+22	2,803990E+21	4,147439E+22
-2628	1,933571E+22	1,933456E+22	1,401779E+21	1,402015E+21	3,867026E+22	2,803793E+21	4,147406E+22
-2627	1,933418E+22	1,933495E+22	1,402109E+21	1,401850E+21	3,866913E+22	2,803959E+21	4,147309E+22
-2626	1,933406E+22	1,933431E+22	1,402062E+21	1,402206E+21	3,866837E+22	2,804268E+21	4,147264E+22
-2625	1,933370E+22	1,933298E+22	1,401977E+21	1,402119E+21	3,866668E+22	2,804096E+21	4,147078E+22
-2624	1,933224E+22	1,933315E+22	1,402338E+21	1,402100E+21	3,866539E+22	2,804438E+21	4,146983E+22
-2623	1,933278E+22	1,933210E+22	1,402113E+21	1,402394E+21	3,866489E+22	2,804507E+21	4,146939E+22
-2622	1,933212E+22	1,933146E+22	1,402198E+21	1,402168E+21	3,866357E+22	2,804366E+21	4,146794E+22
-2621	1,933132E+22	1,933196E+22	1,402398E+21	1,402279E+21	3,866328E+22	2,804677E+21	4,146796E+22
-2620	1,933214E+22	1,933129E+22	1,402111E+21	1,402426E+21	3,866343E+22	2,804537E+21	4,146797E+22
-2619	1,933128E+22	1,933186E+22	1,402323E+21	1,402128E+21	3,866314E+22	2,804451E+21	4,146759E+22
-2618	1,933171E+22	1,933221E+22	1,402299E+21	1,402325E+21	3,866392E+22	2,804625E+21	4,146854E+22
-2617	1,933262E+22	1,933169E+22	1,402058E+21	1,402195E+21	3,866431E+22	2,804253E+21	4,146856E+22
-2616	1,933201E+22	1,933295E+22	1,402308E+21	1,401991E+21	3,866497E+22	2,804299E+21	4,146926E+22
-2615	1,933319E+22	1,933313E+22	1,402068E+21	1,402269E+21	3,866631E+22	2,804337E+21	4,147065E+22
-2614	1,933359E+22	1,933300E+22	1,401952E+21	1,402020E+21	3,866659E+22	2,803972E+21	4,147057E+22
-2613	1,933327E+22	1,933415E+22	1,402158E+21	1,401995E+21	3,866742E+22	2,804153E+21	4,147157E+22
-2612	1,933458E+22	1,933381E+22	1,401869E+21	1,402175E+21	3,866839E+22	2,804044E+21	4,147244E+22
-2611	1,933416E+22	1,933405E+22	1,402016E+21	1,401869E+21	3,866821E+22	2,803885E+21	4,147209E+22
-2610	1,933383E+22	1,933443E+22	1,402159E+21	1,402074E+21	3,866826E+22	2,804233E+21	4,147249E+22
-2609	1,933413E+22	1,933329E+22	1,401916E+21	1,402149E+21	3,866742E+22	2,804065E+21	4,147149E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2608	1,933269E+22	1,933347E+22	1,402241E+21	1,402013E+21	3,866616E+22	2,804253E+21	4,147041E+22
-2607	1,933258E+22	1,933286E+22	1,402190E+21	1,402365E+21	3,866544E+22	2,804555E+21	4,146999E+22
-2606	1,933248E+22	1,933135E+22	1,402087E+21	1,402265E+21	3,866383E+22	2,804351E+21	4,146818E+22
-2605	1,933113E+22	1,933165E+22	1,402430E+21	1,402202E+21	3,866278E+22	2,804632E+21	4,146741E+22
-2604	1,933154E+22	1,933088E+22	1,402233E+21	1,402512E+21	3,866241E+22	2,804745E+21	4,146716E+22
-2603	1,933089E+22	1,933044E+22	1,402325E+21	1,402285E+21	3,866132E+22	2,804610E+21	4,146593E+22
-2602	1,933004E+22	1,933101E+22	1,402520E+21	1,402391E+21	3,866106E+22	2,804911E+21	4,146597E+22
-2601	1,933082E+22	1,933008E+22	1,402234E+21	1,402514E+21	3,866090E+22	2,804747E+21	4,146565E+22
-2600	1,933023E+22	1,933062E+22	1,402437E+21	1,402208E+21	3,866085E+22	2,804645E+21	4,146550E+22
-2599	1,933063E+22	1,933116E+22	1,402407E+21	1,402409E+21	3,866180E+22	2,804816E+21	4,146661E+22
-2598	1,933163E+22	1,933060E+22	1,402129E+21	1,402310E+21	3,866224E+22	2,804439E+21	4,146668E+22
-2597	1,933108E+22	1,933191E+22	1,402348E+21	1,402093E+21	3,866300E+22	2,804441E+21	4,146744E+22
-2596	1,933220E+22	1,933220E+22	1,402144E+21	1,402379E+21	3,866440E+22	2,804524E+21	4,146892E+22
-2595	1,933276E+22	1,933216E+22	1,402052E+21	1,402105E+21	3,866492E+22	2,804157E+21	4,146908E+22
-2594	1,933238E+22	1,933328E+22	1,402276E+21	1,402064E+21	3,866566E+22	2,804340E+21	4,147000E+22
-2593	1,933341E+22	1,933267E+22	1,402007E+21	1,402253E+21	3,866608E+22	2,804260E+21	4,147034E+22
-2592	1,933291E+22	1,933283E+22	1,402148E+21	1,401999E+21	3,866574E+22	2,804146E+21	4,146989E+22
-2591	1,933230E+22	1,933320E+22	1,402288E+21	1,402231E+21	3,866550E+22	2,804519E+21	4,147002E+22
-2590	1,933273E+22	1,933177E+22	1,402020E+21	1,402324E+21	3,866451E+22	2,804344E+21	4,146885E+22
-2589	1,933146E+22	1,933185E+22	1,402325E+21	1,402134E+21	3,866331E+22	2,804459E+21	4,146777E+22
-2588	1,933134E+22	1,933140E+22	1,402315E+21	1,402469E+21	3,866274E+22	2,804784E+21	4,146753E+22
-2587	1,933136E+22	1,933014E+22	1,402227E+21	1,402360E+21	3,866150E+22	2,804587E+21	4,146609E+22
-2586	1,932985E+22	1,933061E+22	1,402562E+21	1,402309E+21	3,866045E+22	2,804871E+21	4,146532E+22
-2585	1,933003E+22	1,932966E+22	1,402372E+21	1,402636E+21	3,865969E+22	2,805008E+21	4,146470E+22
-2584	1,932955E+22	1,932919E+22	1,402452E+21	1,402420E+21	3,865873E+22	2,804872E+21	4,146360E+22
-2583	1,932871E+22	1,932985E+22	1,402644E+21	1,402502E+21	3,865856E+22	2,805146E+21	4,146371E+22
-2582	1,932976E+22	1,932875E+22	1,402333E+21	1,402617E+21	3,865851E+22	2,804950E+21	4,146346E+22
-2581	1,932928E+22	1,932936E+22	1,402508E+21	1,402283E+21	3,865865E+22	2,804790E+21	4,146344E+22
-2580	1,932955E+22	1,933018E+22	1,402497E+21	1,402508E+21	3,865973E+22	2,805005E+21	4,146473E+22
-2579	1,933066E+22	1,932977E+22	1,402220E+21	1,402417E+21	3,866043E+22	2,804637E+21	4,146506E+22
-2578	1,933013E+22	1,933111E+22	1,402433E+21	1,402192E+21	3,866124E+22	2,804625E+21	4,146586E+22
-2577	1,933117E+22	1,933114E+22	1,402253E+21	1,402457E+21	3,866231E+22	2,804710E+21	4,146702E+22
-2576	1,933186E+22	1,933107E+22	1,402165E+21	1,402184E+21	3,866294E+22	2,804349E+21	4,146729E+22
-2575	1,933129E+22	1,933230E+22	1,402399E+21	1,402157E+21	3,866358E+22	2,804556E+21	4,146814E+22
-2574	1,933222E+22	1,933147E+22	1,402106E+21	1,402382E+21	3,866369E+22	2,804488E+21	4,146818E+22
-2573	1,933166E+22	1,933151E+22	1,402225E+21	1,402131E+21	3,866317E+22	2,804356E+21	4,146753E+22
-2572	1,933096E+22	1,933192E+22	1,402397E+21	1,402370E+21	3,866288E+22	2,804767E+21	4,146765E+22
-2571	1,933155E+22	1,933050E+22	1,402148E+21	1,402441E+21	3,866205E+22	2,804589E+21	4,146664E+22
-2570	1,933030E+22	1,933059E+22	1,402458E+21	1,402229E+21	3,866089E+22	2,804687E+21	4,146558E+22
-2569	1,932996E+22	1,932998E+22	1,402471E+21	1,402570E+21	3,865995E+22	2,805041E+21	4,146499E+22
-2568	1,932995E+22	1,932882E+22	1,402373E+21	1,402501E+21	3,865877E+22	2,804874E+21	4,146365E+22
-2567	1,932829E+22	1,932939E+22	1,402702E+21	1,402463E+21	3,865768E+22	2,805165E+21	4,146284E+22
-2566	1,932865E+22	1,932824E+22	1,402486E+21	1,402787E+21	3,865689E+22	2,805273E+21	4,146216E+22
-2565	1,932838E+22	1,932777E+22	1,402537E+21	1,402521E+21	3,865616E+22	2,805058E+21	4,146121E+22
-2564	1,932759E+22	1,932865E+22	1,402750E+21	1,402585E+21	3,865624E+22	2,805335E+21	4,146157E+22
-2563	1,932877E+22	1,932778E+22	1,402440E+21	1,402698E+21	3,865655E+22	2,805137E+21	4,146169E+22
-2562	1,932825E+22	1,932851E+22	1,402593E+21	1,402373E+21	3,865676E+22	2,804966E+21	4,146173E+22
-2561	1,932839E+22	1,932915E+22	1,402599E+21	1,402613E+21	3,865754E+22	2,805212E+21	4,146275E+22
-2560	1,932969E+22	1,932878E+22	1,402317E+21	1,402531E+21	3,865847E+22	2,804848E+21	4,146332E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2559	1,932915E+22	1,933016E+22	1,402537E+21	1,402283E+21	3,865931E+22	2,804820E+21	4,146413E+22
-2558	1,933030E+22	1,933000E+22	1,402351E+21	1,402542E+21	3,866030E+22	2,804893E+21	4,146520E+22
-2557	1,933095E+22	1,932991E+22	1,402242E+21	1,402266E+21	3,866086E+22	2,804508E+21	4,146537E+22
-2556	1,933005E+22	1,933126E+22	1,402506E+21	1,402269E+21	3,866131E+22	2,804775E+21	4,146608E+22
-2555	1,933098E+22	1,933043E+22	1,402221E+21	1,402508E+21	3,866141E+22	2,804730E+21	4,146614E+22
-2554	1,933041E+22	1,933034E+22	1,402341E+21	1,402247E+21	3,866076E+22	2,804587E+21	4,146534E+22
-2553	1,932960E+22	1,933047E+22	1,402542E+21	1,402472E+21	3,866007E+22	2,805014E+21	4,146508E+22
-2552	1,933030E+22	1,932909E+22	1,402296E+21	1,402554E+21	3,865939E+22	2,804850E+21	4,146424E+22
-2551	1,932889E+22	1,932931E+22	1,402601E+21	1,402361E+21	3,865820E+22	2,804962E+21	4,146317E+22
-2550	1,932855E+22	1,932858E+22	1,402589E+21	1,402729E+21	3,865712E+22	2,805319E+21	4,146244E+22
-2549	1,932859E+22	1,932740E+22	1,402467E+21	1,402652E+21	3,865599E+22	2,805119E+21	4,146111E+22
-2548	1,932693E+22	1,932812E+22	1,402819E+21	1,402600E+21	3,865505E+22	2,805419E+21	4,146047E+22
-2547	1,932750E+22	1,932706E+22	1,402612E+21	1,402885E+21	3,865456E+22	2,805497E+21	4,146006E+22
-2546	1,932731E+22	1,932665E+22	1,402654E+21	1,402597E+21	3,865396E+22	2,805251E+21	4,145921E+22
-2545	1,932634E+22	1,932743E+22	1,402877E+21	1,402672E+21	3,865377E+22	2,805550E+21	4,145932E+22
-2544	1,932755E+22	1,932672E+22	1,402551E+21	1,402816E+21	3,865426E+22	2,805367E+21	4,145963E+22
-2543	1,932706E+22	1,932753E+22	1,402691E+21	1,402502E+21	3,865460E+22	2,805193E+21	4,145979E+22
-2542	1,932744E+22	1,932797E+22	1,402678E+21	1,402724E+21	3,865541E+22	2,805403E+21	4,146081E+22
-2541	1,932890E+22	1,932765E+22	1,402382E+21	1,402598E+21	3,865655E+22	2,804979E+21	4,146153E+22
-2540	1,932831E+22	1,932924E+22	1,402630E+21	1,402347E+21	3,865756E+22	2,804977E+21	4,146253E+22
-2539	1,932938E+22	1,932920E+22	1,402454E+21	1,402612E+21	3,865859E+22	2,805066E+21	4,146365E+22
-2538	1,932983E+22	1,932909E+22	1,402337E+21	1,402363E+21	3,865891E+22	2,804700E+21	4,146361E+22
-2537	1,932867E+22	1,933008E+22	1,402629E+21	1,402393E+21	3,865875E+22	2,805022E+21	4,146377E+22
-2536	1,932966E+22	1,932918E+22	1,402349E+21	1,402644E+21	3,865885E+22	2,804993E+21	4,146384E+22
-2535	1,932912E+22	1,932901E+22	1,402475E+21	1,402377E+21	3,865814E+22	2,804852E+21	4,146299E+22
-2534	1,932842E+22	1,932890E+22	1,402665E+21	1,402600E+21	3,865731E+22	2,805265E+21	4,146258E+22
-2533	1,932907E+22	1,932762E+22	1,402400E+21	1,402686E+21	3,865669E+22	2,805086E+21	4,146177E+22
-2532	1,932747E+22	1,932805E+22	1,402720E+21	1,402518E+21	3,865551E+22	2,805238E+21	4,146075E+22
-2531	1,932720E+22	1,932738E+22	1,402717E+21	1,402874E+21	3,865458E+22	2,805591E+21	4,146017E+22
-2530	1,932730E+22	1,932619E+22	1,402590E+21	1,402766E+21	3,865349E+22	2,805356E+21	4,145885E+22
-2529	1,932555E+22	1,932672E+22	1,402968E+21	1,402689E+21	3,865227E+22	2,805657E+21	4,145793E+22
-2528	1,932624E+22	1,932581E+22	1,402756E+21	1,402974E+21	3,865205E+22	2,805730E+21	4,145778E+22
-2527	1,932598E+22	1,932551E+22	1,402780E+21	1,402706E+21	3,865149E+22	2,805487E+21	4,145697E+22
-2526	1,932512E+22	1,932616E+22	1,402968E+21	1,402802E+21	3,865128E+22	2,805770E+21	4,145705E+22
-2525	1,932651E+22	1,932553E+22	1,402613E+21	1,402937E+21	3,865205E+22	2,805550E+21	4,145760E+22
-2524	1,932611E+22	1,932657E+22	1,402768E+21	1,402605E+21	3,865268E+22	2,805373E+21	4,145805E+22
-2523	1,932671E+22	1,932712E+22	1,402770E+21	1,402788E+21	3,865383E+22	2,805558E+21	4,145939E+22
-2522	1,932812E+22	1,932685E+22	1,402477E+21	1,402643E+21	3,865496E+22	2,805120E+21	4,146008E+22
-2521	1,932716E+22	1,932826E+22	1,402751E+21	1,402427E+21	3,865542E+22	2,805179E+21	4,146060E+22
-2520	1,932807E+22	1,932824E+22	1,402573E+21	1,402729E+21	3,865631E+22	2,805302E+21	4,146161E+22
-2519	1,932844E+22	1,932797E+22	1,402455E+21	1,402513E+21	3,865642E+22	2,804967E+21	4,146138E+22
-2518	1,932748E+22	1,932860E+22	1,402729E+21	1,402535E+21	3,865607E+22	2,805264E+21	4,146134E+22
-2517	1,932861E+22	1,932769E+22	1,402438E+21	1,402757E+21	3,865630E+22	2,805196E+21	4,146150E+22
-2516	1,932803E+22	1,932773E+22	1,402585E+21	1,402492E+21	3,865576E+22	2,805077E+21	4,146084E+22
-2515	1,932730E+22	1,932776E+22	1,402780E+21	1,402716E+21	3,865506E+22	2,805495E+21	4,146056E+22
-2514	1,932778E+22	1,932654E+22	1,402516E+21	1,402811E+21	3,865432E+22	2,805327E+21	4,145965E+22
-2513	1,932596E+22	1,932674E+22	1,402871E+21	1,402658E+21	3,865270E+22	2,805529E+21	4,145823E+22
-2512	1,932570E+22	1,932611E+22	1,402874E+21	1,402992E+21	3,865181E+22	2,805866E+21	4,145767E+22
-2511	1,932587E+22	1,932486E+22	1,402749E+21	1,402884E+21	3,865073E+22	2,805633E+21	4,145636E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2510	1,932427E+22	1,932513E+22	1,403095E+21	1,402803E+21	3,864940E+22	2,805898E+21	4,145529E+22
-2509	1,932495E+22	1,932438E+22	1,402848E+21	1,403093E+21	3,864933E+22	2,805941E+21	4,145527E+22
-2508	1,932472E+22	1,932436E+22	1,402866E+21	1,402846E+21	3,864907E+22	2,805712E+21	4,145479E+22
-2507	1,932413E+22	1,932513E+22	1,403048E+21	1,402918E+21	3,864927E+22	2,805966E+21	4,145523E+22
-2506	1,932566E+22	1,932464E+22	1,402696E+21	1,403008E+21	3,865031E+22	2,805704E+21	4,145601E+22
-2505	1,932518E+22	1,932557E+22	1,402880E+21	1,402664E+21	3,865075E+22	2,805544E+21	4,145629E+22
-2504	1,932570E+22	1,932629E+22	1,402888E+21	1,402844E+21	3,865199E+22	2,805732E+21	4,145772E+22
-2503	1,932693E+22	1,932601E+22	1,402588E+21	1,402746E+21	3,865293E+22	2,805334E+21	4,145827E+22
-2502	1,932596E+22	1,932703E+22	1,402838E+21	1,402564E+21	3,865300E+22	2,805402E+21	4,145840E+22
-2501	1,932692E+22	1,932696E+22	1,402646E+21	1,402864E+21	3,865388E+22	2,805510E+21	4,145939E+22
-2500	1,932737E+22	1,932676E+22	1,402544E+21	1,402643E+21	3,865413E+22	2,805187E+21	4,145932E+22
-2499	1,932662E+22	1,932740E+22	1,402830E+21	1,402633E+21	3,865401E+22	2,805463E+21	4,145948E+22
-2498	1,932765E+22	1,932657E+22	1,402552E+21	1,402839E+21	3,865423E+22	2,805391E+21	4,145962E+22
-2497	1,932667E+22	1,932651E+22	1,402729E+21	1,402610E+21	3,865318E+22	2,805340E+21	4,145852E+22
-2496	1,932576E+22	1,932663E+22	1,402933E+21	1,402847E+21	3,865239E+22	2,805780E+21	4,145817E+22
-2495	1,932618E+22	1,932526E+22	1,402679E+21	1,402961E+21	3,865144E+22	2,805641E+21	4,145708E+22
-2494	1,932449E+22	1,932509E+22	1,403014E+21	1,402796E+21	3,864958E+22	2,805810E+21	4,145539E+22
-2493	1,932436E+22	1,932450E+22	1,402992E+21	1,403103E+21	3,864886E+22	2,806096E+21	4,145495E+22
-2492	1,932453E+22	1,932348E+22	1,402865E+21	1,403007E+21	3,864800E+22	2,805872E+21	4,145388E+22
-2491	1,932309E+22	1,932390E+22	1,403185E+21	1,402928E+21	3,864699E+22	2,806113E+21	4,145311E+22
-2490	1,932382E+22	1,932331E+22	1,402932E+21	1,403206E+21	3,864713E+22	2,806138E+21	4,145327E+22
-2489	1,932354E+22	1,932325E+22	1,402973E+21	1,402962E+21	3,864679E+22	2,805935E+21	4,145273E+22
-2488	1,932310E+22	1,932422E+22	1,403163E+21	1,402995E+21	3,864732E+22	2,806158E+21	4,145347E+22
-2487	1,932467E+22	1,932374E+22	1,402824E+21	1,403085E+21	3,864840E+22	2,805909E+21	4,145431E+22
-2486	1,932420E+22	1,932441E+22	1,402981E+21	1,402753E+21	3,864861E+22	2,805735E+21	4,145434E+22
-2485	1,932458E+22	1,932519E+22	1,402963E+21	1,402947E+21	3,864977E+22	2,805910E+21	4,145568E+22
-2484	1,932574E+22	1,932499E+22	1,402666E+21	1,402881E+21	3,865073E+22	2,805548E+21	4,145628E+22
-2483	1,932504E+22	1,932592E+22	1,402913E+21	1,402685E+21	3,865096E+22	2,805597E+21	4,145655E+22
-2482	1,932606E+22	1,932588E+22	1,402734E+21	1,402941E+21	3,865194E+22	2,805675E+21	4,145761E+22
-2481	1,932636E+22	1,932559E+22	1,402671E+21	1,402724E+21	3,865195E+22	2,805396E+21	4,145735E+22
-2480	1,932545E+22	1,932637E+22	1,402967E+21	1,402711E+21	3,865182E+22	2,805678E+21	4,145750E+22
-2479	1,932623E+22	1,932554E+22	1,402701E+21	1,402968E+21	3,865177E+22	2,805669E+21	4,145744E+22
-2478	1,932520E+22	1,932506E+22	1,402858E+21	1,402774E+21	3,865026E+22	2,805632E+21	4,145589E+22
-2477	1,932426E+22	1,932512E+22	1,403049E+21	1,402998E+21	3,864938E+22	2,806046E+21	4,145543E+22
-2476	1,932476E+22	1,932381E+22	1,402806E+21	1,403108E+21	3,864857E+22	2,805914E+21	4,145449E+22
-2475	1,932334E+22	1,932358E+22	1,403134E+21	1,402916E+21	3,864692E+22	2,806051E+21	4,145297E+22
-2474	1,932315E+22	1,932315E+22	1,403105E+21	1,403200E+21	3,864630E+22	2,806305E+21	4,145261E+22
-2473	1,932309E+22	1,932216E+22	1,402992E+21	1,403140E+21	3,864525E+22	2,806133E+21	4,145138E+22
-2472	1,932170E+22	1,932279E+22	1,403304E+21	1,403052E+21	3,864449E+22	2,806356E+21	4,145085E+22
-2471	1,932257E+22	1,932224E+22	1,403065E+21	1,403332E+21	3,864481E+22	2,806397E+21	4,145120E+22
-2470	1,932250E+22	1,932195E+22	1,403082E+21	1,403062E+21	3,864446E+22	2,806143E+21	4,145060E+22
-2469	1,932215E+22	1,932306E+22	1,403254E+21	1,403062E+21	3,864521E+22	2,806316E+21	4,145153E+22
-2468	1,932364E+22	1,932280E+22	1,402916E+21	1,403167E+21	3,864644E+22	2,806083E+21	4,145253E+22
-2467	1,932325E+22	1,932347E+22	1,403052E+21	1,402857E+21	3,864673E+22	2,805909E+21	4,145264E+22
-2466	1,932358E+22	1,932428E+22	1,403035E+21	1,403039E+21	3,864786E+22	2,806074E+21	4,145393E+22
-2465	1,932460E+22	1,932394E+22	1,402773E+21	1,402990E+21	3,864854E+22	2,805763E+21	4,145430E+22
-2464	1,932401E+22	1,932494E+22	1,403029E+21	1,402764E+21	3,864895E+22	2,805793E+21	4,145474E+22
-2463	1,932502E+22	1,932481E+22	1,402879E+21	1,403030E+21	3,864983E+22	2,805909E+21	4,145574E+22
-2462	1,932519E+22	1,932423E+22	1,402795E+21	1,402841E+21	3,864942E+22	2,805636E+21	4,145506E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2461	1,932409E+22	1,932506E+22	1,403070E+21	1,402849E+21	3,864915E+22	2,805919E+21	4,145507E+22
-2460	1,932476E+22	1,932426E+22	1,402817E+21	1,403131E+21	3,864902E+22	2,805948E+21	4,145497E+22
-2459	1,932396E+22	1,932365E+22	1,402968E+21	1,402929E+21	3,864761E+22	2,805897E+21	4,145350E+22
-2458	1,932306E+22	1,932373E+22	1,403165E+21	1,403095E+21	3,864678E+22	2,806260E+21	4,145304E+22
-2457	1,932340E+22	1,932237E+22	1,402954E+21	1,403217E+21	3,864577E+22	2,806171E+21	4,145194E+22
-2456	1,932194E+22	1,932234E+22	1,403273E+21	1,403017E+21	3,864428E+22	2,806290E+21	4,145057E+22
-2455	1,932168E+22	1,932195E+22	1,403250E+21	1,403337E+21	3,864363E+22	2,806587E+21	4,145022E+22
-2454	1,932171E+22	1,932073E+22	1,403109E+21	1,403294E+21	3,864245E+22	2,806403E+21	4,144885E+22
-2453	1,932048E+22	1,932149E+22	1,403398E+21	1,403177E+21	3,864197E+22	2,806575E+21	4,144855E+22
-2452	1,932151E+22	1,932113E+22	1,403175E+21	1,403435E+21	3,864263E+22	2,806610E+21	4,144924E+22
-2451	1,932171E+22	1,932086E+22	1,403175E+21	1,403146E+21	3,864257E+22	2,806320E+21	4,144889E+22
-2450	1,932121E+22	1,932213E+22	1,403339E+21	1,403118E+21	3,864333E+22	2,806457E+21	4,144979E+22
-2449	1,932240E+22	1,932185E+22	1,403020E+21	1,403270E+21	3,864426E+22	2,806290E+21	4,145055E+22
-2448	1,932204E+22	1,932255E+22	1,403154E+21	1,402954E+21	3,864459E+22	2,806108E+21	4,145070E+22
-2447	1,932246E+22	1,932327E+22	1,403159E+21	1,403147E+21	3,864573E+22	2,806306E+21	4,145203E+22
-2446	1,932362E+22	1,932263E+22	1,402878E+21	1,403093E+21	3,864624E+22	2,805971E+21	4,145222E+22
-2445	1,932303E+22	1,932369E+22	1,403117E+21	1,402856E+21	3,864673E+22	2,805973E+21	4,145270E+22
-2444	1,932390E+22	1,932374E+22	1,402978E+21	1,403146E+21	3,864765E+22	2,806124E+21	4,145377E+22
-2443	1,932412E+22	1,932308E+22	1,402879E+21	1,402985E+21	3,864719E+22	2,805864E+21	4,145306E+22
-2442	1,932288E+22	1,932389E+22	1,403166E+21	1,402967E+21	3,864678E+22	2,806133E+21	4,145291E+22
-2441	1,932335E+22	1,932297E+22	1,402957E+21	1,403261E+21	3,864632E+22	2,806218E+21	4,145254E+22
-2440	1,932260E+22	1,932237E+22	1,403124E+21	1,403029E+21	3,864497E+22	2,806153E+21	4,145112E+22
-2439	1,932168E+22	1,932237E+22	1,403340E+21	1,403208E+21	3,864405E+22	2,806549E+21	4,145060E+22
-2438	1,932190E+22	1,932078E+22	1,403098E+21	1,403359E+21	3,864267E+22	2,806457E+21	4,144913E+22
-2437	1,932042E+22	1,932084E+22	1,403381E+21	1,403172E+21	3,864126E+22	2,806554E+21	4,144781E+22
-2436	1,932026E+22	1,932060E+22	1,403366E+21	1,403493E+21	3,864087E+22	2,806859E+21	4,144772E+22
-2435	1,932066E+22	1,931942E+22	1,403210E+21	1,403426E+21	3,864009E+22	2,806635E+21	4,144672E+22
-2434	1,931955E+22	1,932037E+22	1,403495E+21	1,403240E+21	3,863991E+22	2,806735E+21	4,144665E+22
-2433	1,932037E+22	1,932009E+22	1,403304E+21	1,403503E+21	3,864046E+22	2,806807E+21	4,144727E+22
-2432	1,932050E+22	1,932004E+22	1,403290E+21	1,403216E+21	3,864054E+22	2,806506E+21	4,144705E+22
-2431	1,931995E+22	1,932122E+22	1,403457E+21	1,403228E+21	3,864117E+22	2,806685E+21	4,144785E+22
-2430	1,932115E+22	1,932063E+22	1,403113E+21	1,403400E+21	3,864178E+22	2,806513E+21	4,144829E+22
-2429	1,932101E+22	1,932134E+22	1,403224E+21	1,403070E+21	3,864235E+22	2,806294E+21	4,144864E+22
-2428	1,932158E+22	1,932214E+22	1,403251E+21	1,403246E+21	3,864372E+22	2,806498E+21	4,145022E+22
-2427	1,932292E+22	1,932151E+22	1,402960E+21	1,403193E+21	3,864443E+22	2,806153E+21	4,145058E+22
-2426	1,932212E+22	1,932271E+22	1,403194E+21	1,402938E+21	3,864482E+22	2,806132E+21	4,145096E+22
-2425	1,932258E+22	1,932272E+22	1,403096E+21	1,403268E+21	3,864530E+22	2,806363E+21	4,145166E+22
-2424	1,932275E+22	1,932205E+22	1,403012E+21	1,403101E+21	3,864480E+22	2,806113E+21	4,145091E+22
-2423	1,932152E+22	1,932266E+22	1,403331E+21	1,403088E+21	3,864419E+22	2,806419E+21	4,145060E+22
-2422	1,932196E+22	1,932140E+22	1,403109E+21	1,403379E+21	3,864336E+22	2,806489E+21	4,144985E+22
-2421	1,932121E+22	1,932081E+22	1,403251E+21	1,403153E+21	3,864202E+22	2,806404E+21	4,144843E+22
-2420	1,932021E+22	1,932095E+22	1,403466E+21	1,403357E+21	3,864116E+22	2,806823E+21	4,144798E+22
-2419	1,932060E+22	1,931935E+22	1,403198E+21	1,403531E+21	3,863995E+22	2,806729E+21	4,144668E+22
-2418	1,931917E+22	1,931954E+22	1,403471E+21	1,403300E+21	3,863871E+22	2,806771E+21	4,144548E+22
-2417	1,931898E+22	1,931940E+22	1,403496E+21	1,403613E+21	3,863838E+22	2,807109E+21	4,144549E+22
-2416	1,931951E+22	1,931837E+22	1,403352E+21	1,403498E+21	3,863788E+22	2,806850E+21	4,144473E+22
-2415	1,931837E+22	1,931932E+22	1,403648E+21	1,403322E+21	3,863769E+22	2,806970E+21	4,144466E+22
-2414	1,931901E+22	1,931886E+22	1,403419E+21	1,403613E+21	3,863787E+22	2,807032E+21	4,144491E+22
-2413	1,931915E+22	1,931881E+22	1,403369E+21	1,403348E+21	3,863797E+22	2,806717E+21	4,144468E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2412	1,931878E+22	1,932005E+22	1,403540E+21	1,403362E+21	3,863883E+22	2,806902E+21	4,144573E+22
-2411	1,932038E+22	1,931944E+22	1,403181E+21	1,403514E+21	3,863982E+22	2,806695E+21	4,144652E+22
-2410	1,932035E+22	1,932031E+22	1,403287E+21	1,403124E+21	3,864065E+22	2,806411E+21	4,144707E+22
-2409	1,932068E+22	1,932124E+22	1,403357E+21	1,403315E+21	3,864192E+22	2,806672E+21	4,144859E+22
-2408	1,932182E+22	1,932077E+22	1,403075E+21	1,403265E+21	3,864259E+22	2,806341E+21	4,144893E+22
-2407	1,932087E+22	1,932181E+22	1,403334E+21	1,403056E+21	3,864268E+22	2,806390E+21	4,144907E+22
-2406	1,932113E+22	1,932143E+22	1,403228E+21	1,403401E+21	3,864257E+22	2,806629E+21	4,144920E+22
-2405	1,932137E+22	1,932063E+22	1,403135E+21	1,403239E+21	3,864200E+22	2,806374E+21	4,144838E+22
-2404	1,932023E+22	1,932118E+22	1,403471E+21	1,403221E+21	3,864140E+22	2,806691E+21	4,144810E+22
-2403	1,932077E+22	1,931986E+22	1,403226E+21	1,403524E+21	3,864063E+22	2,806751E+21	4,144738E+22
-2402	1,931991E+22	1,931940E+22	1,403344E+21	1,403284E+21	3,863930E+22	2,806629E+21	4,144593E+22
-2401	1,931868E+22	1,931959E+22	1,403590E+21	1,403510E+21	3,863827E+22	2,807100E+21	4,144537E+22
-2400	1,931919E+22	1,931816E+22	1,403339E+21	1,403655E+21	3,863735E+22	2,806994E+21	4,144434E+22
-2399	1,931793E+22	1,931833E+22	1,403630E+21	1,403413E+21	3,863626E+22	2,807043E+21	4,144330E+22
-2398	1,931766E+22	1,931802E+22	1,403642E+21	1,403704E+21	3,863568E+22	2,807346E+21	4,144302E+22
-2397	1,931821E+22	1,931712E+22	1,403464E+21	1,403600E+21	3,863533E+22	2,807064E+21	4,144239E+22
-2396	1,931706E+22	1,931814E+22	1,403749E+21	1,403445E+21	3,863520E+22	2,807194E+21	4,144240E+22
-2395	1,931790E+22	1,931765E+22	1,403488E+21	1,403752E+21	3,863555E+22	2,807240E+21	4,144279E+22
-2394	1,931820E+22	1,931771E+22	1,403420E+21	1,403446E+21	3,863590E+22	2,806867E+21	4,144277E+22
-2393	1,931786E+22	1,931904E+22	1,403631E+21	1,403452E+21	3,863689E+22	2,807083E+21	4,144398E+22
-2392	1,931958E+22	1,931863E+22	1,403298E+21	1,403565E+21	3,863821E+22	2,806863E+21	4,144507E+22
-2391	1,931947E+22	1,931949E+22	1,403417E+21	1,403199E+21	3,863896E+22	2,806616E+21	4,144557E+22
-2390	1,931943E+22	1,932019E+22	1,403471E+21	1,403418E+21	3,863962E+22	2,806889E+21	4,144651E+22
-2389	1,932047E+22	1,931962E+22	1,403174E+21	1,403401E+21	3,864009E+22	2,806575E+21	4,144666E+22
-2388	1,931955E+22	1,932053E+22	1,403452E+21	1,403205E+21	3,864008E+22	2,806657E+21	4,144674E+22
-2387	1,932002E+22	1,932000E+22	1,403333E+21	1,403537E+21	3,864003E+22	2,806870E+21	4,144690E+22
-2386	1,932027E+22	1,931922E+22	1,403231E+21	1,403337E+21	3,863949E+22	2,806568E+21	4,144606E+22
-2385	1,931892E+22	1,931985E+22	1,403595E+21	1,403343E+21	3,863877E+22	2,806938E+21	4,144570E+22
-2384	1,931937E+22	1,931868E+22	1,403360E+21	1,403643E+21	3,863805E+22	2,807003E+21	4,144505E+22
-2383	1,931848E+22	1,931815E+22	1,403491E+21	1,403432E+21	3,863663E+22	2,806923E+21	4,144355E+22
-2382	1,931717E+22	1,931814E+22	1,403727E+21	1,403651E+21	3,863531E+22	2,807377E+21	4,144269E+22
-2381	1,931780E+22	1,931675E+22	1,403475E+21	1,403781E+21	3,863455E+22	2,807256E+21	4,144181E+22
-2380	1,931666E+22	1,931695E+22	1,403777E+21	1,403531E+21	3,863362E+22	2,807308E+21	4,144093E+22
-2379	1,931648E+22	1,931666E+22	1,403752E+21	1,403823E+21	3,863314E+22	2,807575E+21	4,144071E+22
-2378	1,931694E+22	1,931589E+22	1,403540E+21	1,403708E+21	3,863283E+22	2,807248E+21	4,144008E+22
-2377	1,931574E+22	1,931697E+22	1,403842E+21	1,403572E+21	3,863271E+22	2,807414E+21	4,144013E+22
-2376	1,931680E+22	1,931667E+22	1,403597E+21	1,403838E+21	3,863346E+22	2,807435E+21	4,144090E+22
-2375	1,931733E+22	1,931676E+22	1,403542E+21	1,403525E+21	3,863409E+22	2,807066E+21	4,144115E+22
-2374	1,931689E+22	1,931796E+22	1,403741E+21	1,403520E+21	3,863485E+22	2,807261E+21	4,144211E+22
-2373	1,931853E+22	1,931767E+22	1,403396E+21	1,403653E+21	3,863621E+22	2,807049E+21	4,144326E+22
-2372	1,931833E+22	1,931850E+22	1,403514E+21	1,403327E+21	3,863684E+22	2,806841E+21	4,144368E+22
-2371	1,931832E+22	1,931904E+22	1,403548E+21	1,403558E+21	3,863736E+22	2,807105E+21	4,144447E+22
-2370	1,931939E+22	1,931843E+22	1,403243E+21	1,403515E+21	3,863782E+22	2,806758E+21	4,144458E+22
-2369	1,931842E+22	1,931926E+22	1,403566E+21	1,403318E+21	3,863768E+22	2,806884E+21	4,144456E+22
-2368	1,931890E+22	1,931884E+22	1,403476E+21	1,403617E+21	3,863774E+22	2,807093E+21	4,144484E+22
-2367	1,931906E+22	1,931802E+22	1,403380E+21	1,403455E+21	3,863707E+22	2,806835E+21	4,144391E+22
-2366	1,931734E+22	1,931841E+22	1,403723E+21	1,403486E+21	3,863575E+22	2,807209E+21	4,144296E+22
-2365	1,931780E+22	1,931725E+22	1,403486E+21	1,403803E+21	3,863505E+22	2,807290E+21	4,144234E+22
-2364	1,931708E+22	1,931667E+22	1,403633E+21	1,403590E+21	3,863375E+22	2,807223E+21	4,144098E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2363	1,931597E+22	1,931664E+22	1,403850E+21	1,403776E+21	3,863261E+22	2,807626E+21	4,144024E+22
-2362	1,931663E+22	1,931539E+22	1,403583E+21	1,403870E+21	3,863201E+22	2,807454E+21	4,143947E+22
-2361	1,931530E+22	1,931573E+22	1,403898E+21	1,403646E+21	3,863103E+22	2,807544E+21	4,143857E+22
-2360	1,931509E+22	1,931562E+22	1,403874E+21	1,403923E+21	3,863072E+22	2,807797E+21	4,143851E+22
-2359	1,931568E+22	1,931481E+22	1,403660E+21	1,403834E+21	3,863049E+22	2,807494E+21	4,143798E+22
-2358	1,931449E+22	1,931572E+22	1,403943E+21	1,403686E+21	3,863021E+22	2,807629E+21	4,143784E+22
-2357	1,931579E+22	1,931550E+22	1,403702E+21	1,403933E+21	3,863129E+22	2,807635E+21	4,143893E+22
-2356	1,931646E+22	1,931568E+22	1,403654E+21	1,403623E+21	3,863213E+22	2,807276E+21	4,143941E+22
-2355	1,931602E+22	1,931691E+22	1,403817E+21	1,403625E+21	3,863293E+22	2,807442E+21	4,144037E+22
-2354	1,931748E+22	1,931668E+22	1,403454E+21	1,403749E+21	3,863416E+22	2,807203E+21	4,144136E+22
-2353	1,931715E+22	1,931747E+22	1,403604E+21	1,403451E+21	3,863463E+22	2,807055E+21	4,144168E+22
-2352	1,931722E+22	1,931804E+22	1,403667E+21	1,403637E+21	3,863526E+22	2,807304E+21	4,144257E+22
-2351	1,931835E+22	1,931732E+22	1,403384E+21	1,403600E+21	3,863567E+22	2,806984E+21	4,144266E+22
-2350	1,931717E+22	1,931792E+22	1,403696E+21	1,403412E+21	3,863509E+22	2,807108E+21	4,144219E+22
-2349	1,931752E+22	1,931753E+22	1,403603E+21	1,403737E+21	3,863506E+22	2,807341E+21	4,144240E+22
-2348	1,931762E+22	1,931666E+22	1,403511E+21	1,403618E+21	3,863428E+22	2,807129E+21	4,144141E+22
-2347	1,931599E+22	1,931693E+22	1,403826E+21	1,403652E+21	3,863293E+22	2,807478E+21	4,144041E+22
-2346	1,931650E+22	1,931582E+22	1,403590E+21	1,403933E+21	3,863232E+22	2,807523E+21	4,143984E+22
-2345	1,931579E+22	1,931530E+22	1,403775E+21	1,403719E+21	3,863109E+22	2,807493E+21	4,143858E+22
-2344	1,931469E+22	1,931543E+22	1,404008E+21	1,403860E+21	3,863012E+22	2,807868E+21	4,143799E+22
-2343	1,931525E+22	1,931420E+22	1,403736E+21	1,403988E+21	3,862946E+22	2,807723E+21	4,143718E+22
-2342	1,931367E+22	1,931433E+22	1,404018E+21	1,403784E+21	3,862800E+22	2,807802E+21	4,143580E+22
-2341	1,931363E+22	1,931426E+22	1,403987E+21	1,404062E+21	3,862789E+22	2,808049E+21	4,143594E+22
-2340	1,931453E+22	1,931351E+22	1,403776E+21	1,403967E+21	3,862803E+22	2,807743E+21	4,143578E+22
-2339	1,931364E+22	1,931446E+22	1,404023E+21	1,403784E+21	3,862810E+22	2,807807E+21	4,143591E+22
-2338	1,931500E+22	1,931448E+22	1,403772E+21	1,403999E+21	3,862948E+22	2,807771E+21	4,143725E+22
-2337	1,931550E+22	1,931481E+22	1,403736E+21	1,403712E+21	3,863031E+22	2,807449E+21	4,143775E+22
-2336	1,931497E+22	1,931616E+22	1,403916E+21	1,403695E+21	3,863113E+22	2,807610E+21	4,143874E+22
-2335	1,931641E+22	1,931584E+22	1,403565E+21	1,403844E+21	3,863225E+22	2,807409E+21	4,143966E+22
-2334	1,931591E+22	1,931629E+22	1,403716E+21	1,403552E+21	3,863220E+22	2,807268E+21	4,143947E+22
-2333	1,931606E+22	1,931681E+22	1,403797E+21	1,403732E+21	3,863287E+22	2,807529E+21	4,144040E+22
-2332	1,931720E+22	1,931603E+22	1,403523E+21	1,403725E+21	3,863323E+22	2,807249E+21	4,144048E+22
-2331	1,931596E+22	1,931652E+22	1,403789E+21	1,403557E+21	3,863247E+22	2,807347E+21	4,143982E+22
-2330	1,931619E+22	1,931616E+22	1,403686E+21	1,403880E+21	3,863235E+22	2,807567E+21	4,143991E+22
-2329	1,931624E+22	1,931531E+22	1,403626E+21	1,403779E+21	3,863155E+22	2,807405E+21	4,143895E+22
-2328	1,931474E+22	1,931569E+22	1,403971E+21	1,403757E+21	3,863044E+22	2,807728E+21	4,143816E+22
-2327	1,931527E+22	1,931458E+22	1,403756E+21	1,404033E+21	3,862985E+22	2,807789E+21	4,143764E+22
-2326	1,931427E+22	1,931390E+22	1,403928E+21	1,403833E+21	3,862817E+22	2,807761E+21	4,143593E+22
-2325	1,931310E+22	1,931407E+22	1,404149E+21	1,403988E+21	3,862717E+22	2,808137E+21	4,143531E+22
-2324	1,931371E+22	1,931280E+22	1,403869E+21	1,404153E+21	3,862651E+22	2,808021E+21	4,143453E+22
-2323	1,931239E+22	1,931284E+22	1,404101E+21	1,403938E+21	3,862523E+22	2,808039E+21	4,143327E+22
-2322	1,931257E+22	1,931291E+22	1,404065E+21	1,404163E+21	3,862547E+22	2,808229E+21	4,143370E+22
-2321	1,931360E+22	1,931239E+22	1,403882E+21	1,404059E+21	3,862600E+22	2,807941E+21	4,143394E+22
-2320	1,931282E+22	1,931361E+22	1,404137E+21	1,403833E+21	3,862643E+22	2,807970E+21	4,143440E+22
-2319	1,931398E+22	1,931372E+22	1,403889E+21	1,404073E+21	3,862771E+22	2,807961E+21	4,143567E+22
-2318	1,931415E+22	1,931382E+22	1,403837E+21	1,403817E+21	3,862798E+22	2,807653E+21	4,143563E+22
-2317	1,931369E+22	1,931508E+22	1,404027E+21	1,403797E+21	3,862877E+22	2,807825E+21	4,143659E+22
-2316	1,931526E+22	1,931465E+22	1,403690E+21	1,403958E+21	3,862991E+22	2,807648E+21	4,143756E+22
-2315	1,931493E+22	1,931495E+22	1,403805E+21	1,403661E+21	3,862988E+22	2,807467E+21	4,143734E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2314	1,931502E+22	1,931554E+22	1,403880E+21	1,403832E+21	3,863056E+22	2,807711E+21	4,143827E+22
-2313	1,931600E+22	1,931488E+22	1,403621E+21	1,403867E+21	3,863088E+22	2,807487E+21	4,143837E+22
-2312	1,931476E+22	1,931542E+22	1,403898E+21	1,403680E+21	3,863018E+22	2,807578E+21	4,143776E+22
-2311	1,931496E+22	1,931503E+22	1,403818E+21	1,404008E+21	3,862999E+22	2,807826E+21	4,143782E+22
-2310	1,931481E+22	1,931393E+22	1,403770E+21	1,403905E+21	3,862874E+22	2,807675E+21	4,143641E+22
-2309	1,931334E+22	1,931430E+22	1,404141E+21	1,403866E+21	3,862764E+22	2,808007E+21	4,143565E+22
-2308	1,931381E+22	1,931317E+22	1,403930E+21	1,404172E+21	3,862698E+22	2,808102E+21	4,143508E+22
-2307	1,931274E+22	1,931233E+22	1,404044E+21	1,403992E+21	3,862507E+22	2,808036E+21	4,143311E+22
-2306	1,931160E+22	1,931254E+22	1,404241E+21	1,404135E+21	3,862413E+22	2,808376E+21	4,143251E+22
-2305	1,931237E+22	1,931139E+22	1,403975E+21	1,404298E+21	3,862375E+22	2,808274E+21	4,143203E+22
-2304	1,931137E+22	1,931165E+22	1,404213E+21	1,404018E+21	3,862303E+22	2,808231E+21	4,143126E+22
-2303	1,931169E+22	1,931193E+22	1,404190E+21	1,404228E+21	3,862362E+22	2,808418E+21	4,143204E+22
-2302	1,931244E+22	1,931140E+22	1,403999E+21	1,404136E+21	3,862384E+22	2,808135E+21	4,143197E+22
-2301	1,931157E+22	1,931271E+22	1,404251E+21	1,403923E+21	3,862428E+22	2,808174E+21	4,143246E+22
-2300	1,931273E+22	1,931274E+22	1,404004E+21	1,404198E+21	3,862546E+22	2,808202E+21	4,143366E+22
-2299	1,931301E+22	1,931261E+22	1,403907E+21	1,403948E+21	3,862562E+22	2,807855E+21	4,143347E+22
-2298	1,931269E+22	1,931382E+22	1,404098E+21	1,403899E+21	3,862651E+22	2,807997E+21	4,143451E+22
-2297	1,931432E+22	1,931349E+22	1,403788E+21	1,404067E+21	3,862781E+22	2,807855E+21	4,143567E+22
-2296	1,931404E+22	1,931392E+22	1,403908E+21	1,403750E+21	3,862796E+22	2,807657E+21	4,143562E+22
-2295	1,931394E+22	1,931454E+22	1,403989E+21	1,403943E+21	3,862848E+22	2,807932E+21	4,143641E+22
-2294	1,931456E+22	1,931366E+22	1,403740E+21	1,404003E+21	3,862822E+22	2,807744E+21	4,143597E+22
-2293	1,931337E+22	1,931415E+22	1,404042E+21	1,403805E+21	3,862752E+22	2,807847E+21	4,143537E+22
-2292	1,931361E+22	1,931368E+22	1,403988E+21	1,404134E+21	3,862729E+22	2,808122E+21	4,143541E+22
-2291	1,931349E+22	1,931241E+22	1,403905E+21	1,404034E+21	3,862591E+22	2,807939E+21	4,143385E+22
-2290	1,931192E+22	1,931278E+22	1,404261E+21	1,403988E+21	3,862470E+22	2,808249E+21	4,143295E+22
-2289	1,931224E+22	1,931177E+22	1,404054E+21	1,404326E+21	3,862401E+22	2,808379E+21	4,143239E+22
-2288	1,931135E+22	1,931100E+22	1,404159E+21	1,404127E+21	3,862235E+22	2,808286E+21	4,143063E+22
-2287	1,931033E+22	1,931126E+22	1,404361E+21	1,404255E+21	3,862158E+22	2,808616E+21	4,143020E+22
-2286	1,931105E+22	1,931008E+22	1,404108E+21	1,404407E+21	3,862112E+22	2,808515E+21	4,142964E+22
-2285	1,931025E+22	1,931049E+22	1,404355E+21	1,404103E+21	3,862073E+22	2,808458E+21	4,142919E+22
-2284	1,931052E+22	1,931088E+22	1,404331E+21	1,404337E+21	3,862140E+22	2,808668E+21	4,143007E+22
-2283	1,931119E+22	1,931025E+22	1,404080E+21	1,404266E+21	3,862144E+22	2,808345E+21	4,142979E+22
-2282	1,931037E+22	1,931151E+22	1,404315E+21	1,404044E+21	3,862188E+22	2,808359E+21	4,143024E+22
-2281	1,931162E+22	1,931163E+22	1,404087E+21	1,404313E+21	3,862325E+22	2,808400E+21	4,143165E+22
-2280	1,931220E+22	1,931157E+22	1,403997E+21	1,404021E+21	3,862378E+22	2,808018E+21	4,143179E+22
-2279	1,931193E+22	1,931286E+22	1,404200E+21	1,403967E+21	3,862479E+22	2,808167E+21	4,143296E+22
-2278	1,931318E+22	1,931247E+22	1,403899E+21	1,404161E+21	3,862565E+22	2,808060E+21	4,143371E+22
-2277	1,931282E+22	1,931291E+22	1,404025E+21	1,403861E+21	3,862573E+22	2,807886E+21	4,143361E+22
-2276	1,931266E+22	1,931342E+22	1,404122E+21	1,404085E+21	3,862608E+22	2,808207E+21	4,143429E+22
-2275	1,931326E+22	1,931229E+22	1,403848E+21	1,404144E+21	3,862555E+22	2,807992E+21	4,143354E+22
-2274	1,931213E+22	1,931269E+22	1,404163E+21	1,403926E+21	3,862482E+22	2,808088E+21	4,143291E+22
-2273	1,931231E+22	1,931228E+22	1,404132E+21	1,404256E+21	3,862459E+22	2,808388E+21	4,143298E+22
-2272	1,931215E+22	1,931109E+22	1,404042E+21	1,404157E+21	3,862324E+22	2,808200E+21	4,143144E+22
-2271	1,931045E+22	1,931144E+22	1,404386E+21	1,404129E+21	3,862189E+22	2,808515E+21	4,143041E+22
-2270	1,931054E+22	1,931026E+22	1,404185E+21	1,404479E+21	3,862080E+22	2,808664E+21	4,142947E+22
-2269	1,930991E+22	1,930955E+22	1,404300E+21	1,404254E+21	3,861946E+22	2,808555E+21	4,142802E+22
-2268	1,930910E+22	1,930991E+22	1,404512E+21	1,404375E+21	3,861901E+22	2,808887E+21	4,142789E+22
-2267	1,930988E+22	1,930874E+22	1,404221E+21	1,404520E+21	3,861863E+22	2,808741E+21	4,142737E+22
-2266	1,930909E+22	1,930929E+22	1,404444E+21	1,404214E+21	3,861838E+22	2,808657E+21	4,142703E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2265	1,930929E+22	1,930984E+22	1,404420E+21	1,404458E+21	3,861913E+22	2,808878E+21	4,142801E+22
-2264	1,931014E+22	1,930927E+22	1,404160E+21	1,404369E+21	3,861942E+22	2,808529E+21	4,142795E+22
-2263	1,930943E+22	1,931051E+22	1,404400E+21	1,404128E+21	3,861994E+22	2,808528E+21	4,142847E+22
-2262	1,931053E+22	1,931054E+22	1,404200E+21	1,404390E+21	3,862107E+22	2,808590E+21	4,142966E+22
-2261	1,931123E+22	1,931056E+22	1,404127E+21	1,404093E+21	3,862179E+22	2,808221E+21	4,143001E+22
-2260	1,931083E+22	1,931186E+22	1,404331E+21	1,404078E+21	3,862269E+22	2,808409E+21	4,143110E+22
-2259	1,931192E+22	1,931129E+22	1,403991E+21	1,404300E+21	3,862321E+22	2,808291E+21	4,143150E+22
-2258	1,931160E+22	1,931157E+22	1,404111E+21	1,403997E+21	3,862317E+22	2,808108E+21	4,143128E+22
-2257	1,931143E+22	1,931216E+22	1,404235E+21	1,404206E+21	3,862358E+22	2,808440E+21	4,143202E+22
-2256	1,931220E+22	1,931106E+22	1,403971E+21	1,404242E+21	3,862326E+22	2,808213E+21	4,143147E+22
-2255	1,931097E+22	1,931144E+22	1,404296E+21	1,404027E+21	3,862240E+22	2,808323E+21	4,143073E+22
-2254	1,931068E+22	1,931096E+22	1,404276E+21	1,404385E+21	3,862164E+22	2,808661E+21	4,143030E+22
-2253	1,931054E+22	1,930971E+22	1,404190E+21	1,404304E+21	3,862025E+22	2,808494E+21	4,142874E+22
-2252	1,930891E+22	1,930997E+22	1,404530E+21	1,404299E+21	3,861888E+22	2,808829E+21	4,142771E+22
-2251	1,930912E+22	1,930866E+22	1,404299E+21	1,404632E+21	3,861779E+22	2,808931E+21	4,142672E+22
-2250	1,930874E+22	1,930801E+22	1,404411E+21	1,404378E+21	3,861675E+22	2,808790E+21	4,142554E+22
-2249	1,930798E+22	1,930866E+22	1,404633E+21	1,404484E+21	3,861664E+22	2,809118E+21	4,142576E+22
-2248	1,930879E+22	1,930770E+22	1,404329E+21	1,404624E+21	3,861649E+22	2,808953E+21	4,142545E+22
-2247	1,930791E+22	1,930829E+22	1,404539E+21	1,404321E+21	3,861620E+22	2,808860E+21	4,142506E+22
-2246	1,930790E+22	1,930873E+22	1,404531E+21	1,404559E+21	3,861663E+22	2,809090E+21	4,142572E+22
-2245	1,930898E+22	1,930820E+22	1,404284E+21	1,404447E+21	3,861718E+22	2,808731E+21	4,142591E+22
-2244	1,930846E+22	1,930943E+22	1,404528E+21	1,404218E+21	3,861788E+22	2,808745E+21	4,142663E+22
-2243	1,930950E+22	1,930936E+22	1,404296E+21	1,404484E+21	3,861886E+22	2,808780E+21	4,142764E+22
-2242	1,931018E+22	1,930942E+22	1,404203E+21	1,404207E+21	3,861961E+22	2,808410E+21	4,142802E+22
-2241	1,930973E+22	1,931081E+22	1,404409E+21	1,404207E+21	3,862054E+22	2,808616E+21	4,142916E+22
-2240	1,931090E+22	1,931023E+22	1,404076E+21	1,404417E+21	3,862114E+22	2,808493E+21	4,142963E+22
-2239	1,931059E+22	1,931047E+22	1,404209E+21	1,404102E+21	3,862106E+22	2,808311E+21	4,142937E+22
-2238	1,931013E+22	1,931090E+22	1,404377E+21	1,404300E+21	3,862103E+22	2,808677E+21	4,142971E+22
-2237	1,931087E+22	1,930981E+22	1,404136E+21	1,404346E+21	3,862068E+22	2,808481E+21	4,142916E+22
-2236	1,930947E+22	1,931008E+22	1,404455E+21	1,404183E+21	3,861955E+22	2,808638E+21	4,142819E+22
-2235	1,930900E+22	1,930935E+22	1,404397E+21	1,404557E+21	3,861835E+22	2,808954E+21	4,142731E+22
-2234	1,930905E+22	1,930801E+22	1,404301E+21	1,404472E+21	3,861706E+22	2,808772E+21	4,142583E+22
-2233	1,930761E+22	1,930844E+22	1,404647E+21	1,404434E+21	3,861605E+22	2,809081E+21	4,142513E+22
-2232	1,930809E+22	1,930734E+22	1,404426E+21	1,404735E+21	3,861543E+22	2,809161E+21	4,142459E+22
-2231	1,930767E+22	1,930687E+22	1,404531E+21	1,404471E+21	3,861454E+22	2,809002E+21	4,142355E+22
-2230	1,930651E+22	1,930758E+22	1,404766E+21	1,404585E+21	3,861409E+22	2,809351E+21	4,142344E+22
-2229	1,930737E+22	1,930667E+22	1,404469E+21	1,404729E+21	3,861405E+22	2,809198E+21	4,142324E+22
-2228	1,930657E+22	1,930715E+22	1,404670E+21	1,404447E+21	3,861372E+22	2,809117E+21	4,142284E+22
-2227	1,930663E+22	1,930742E+22	1,404632E+21	1,404667E+21	3,861405E+22	2,809299E+21	4,142335E+22
-2226	1,930800E+22	1,930686E+22	1,404376E+21	1,404547E+21	3,861486E+22	2,808923E+21	4,142378E+22
-2225	1,930752E+22	1,930831E+22	1,404612E+21	1,404319E+21	3,861583E+22	2,808931E+21	4,142476E+22
-2224	1,930862E+22	1,930841E+22	1,404370E+21	1,404595E+21	3,861703E+22	2,808965E+21	4,142599E+22
-2223	1,930922E+22	1,930846E+22	1,404270E+21	1,404318E+21	3,861768E+22	2,808588E+21	4,142627E+22
-2222	1,930850E+22	1,930975E+22	1,404514E+21	1,404306E+21	3,861825E+22	2,808820E+21	4,142707E+22
-2221	1,930977E+22	1,930918E+22	1,404219E+21	1,404492E+21	3,861895E+22	2,808710E+21	4,142767E+22
-2220	1,930944E+22	1,930930E+22	1,404365E+21	1,404210E+21	3,861874E+22	2,808575E+21	4,142732E+22
-2219	1,930872E+22	1,930953E+22	1,404509E+21	1,404421E+21	3,861825E+22	2,808930E+21	4,142718E+22
-2218	1,930941E+22	1,930832E+22	1,404250E+21	1,404502E+21	3,861773E+22	2,808752E+21	4,142648E+22
-2217	1,930801E+22	1,930861E+22	1,404561E+21	1,404349E+21	3,861662E+22	2,808910E+21	4,142553E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2216	1,930774E+22	1,930789E+22	1,404504E+21	1,404705E+21	3,861563E+22	2,809209E+21	4,142484E+22
-2215	1,930789E+22	1,930662E+22	1,404416E+21	1,404591E+21	3,861451E+22	2,809007E+21	4,142352E+22
-2214	1,930628E+22	1,930710E+22	1,404799E+21	1,404534E+21	3,861338E+22	2,809333E+21	4,142271E+22
-2213	1,930672E+22	1,930620E+22	1,404602E+21	1,404830E+21	3,861292E+22	2,809432E+21	4,142235E+22
-2212	1,930619E+22	1,930574E+22	1,404688E+21	1,404617E+21	3,861193E+22	2,809305E+21	4,142123E+22
-2211	1,930489E+22	1,930618E+22	1,404881E+21	1,404723E+21	3,861107E+22	2,809604E+21	4,142067E+22
-2210	1,930600E+22	1,930519E+22	1,404567E+21	1,404862E+21	3,861119E+22	2,809429E+21	4,142062E+22
-2209	1,930549E+22	1,930581E+22	1,404756E+21	1,404554E+21	3,861130E+22	2,809310E+21	4,142061E+22
-2208	1,930582E+22	1,930625E+22	1,404717E+21	1,404752E+21	3,861207E+22	2,809470E+21	4,142154E+22
-2207	1,930719E+22	1,930592E+22	1,404447E+21	1,404629E+21	3,861311E+22	2,809076E+21	4,142219E+22
-2206	1,930642E+22	1,930742E+22	1,404700E+21	1,404413E+21	3,861384E+22	2,809112E+21	4,142295E+22
-2205	1,930753E+22	1,930759E+22	1,404487E+21	1,404683E+21	3,861511E+22	2,809170E+21	4,142428E+22
-2204	1,930813E+22	1,930751E+22	1,404392E+21	1,404435E+21	3,861565E+22	2,808827E+21	4,142447E+22
-2203	1,930728E+22	1,930850E+22	1,404633E+21	1,404402E+21	3,861578E+22	2,809035E+21	4,142481E+22
-2202	1,930863E+22	1,930781E+22	1,404346E+21	1,404598E+21	3,861644E+22	2,808944E+21	4,142538E+22
-2201	1,930818E+22	1,930799E+22	1,404487E+21	1,404341E+21	3,861617E+22	2,808828E+21	4,142499E+22
-2200	1,930741E+22	1,930820E+22	1,404619E+21	1,404572E+21	3,861560E+22	2,809191E+21	4,142479E+22
-2199	1,930805E+22	1,930692E+22	1,404350E+21	1,404652E+21	3,861498E+22	2,809002E+21	4,142398E+22
-2198	1,930652E+22	1,930715E+22	1,404689E+21	1,404482E+21	3,861367E+22	2,809171E+21	4,142284E+22
-2197	1,930644E+22	1,930657E+22	1,404671E+21	1,404804E+21	3,861301E+22	2,809475E+21	4,142248E+22
-2196	1,930658E+22	1,930534E+22	1,404589E+21	1,404715E+21	3,861192E+22	2,809304E+21	4,142122E+22
-2195	1,930472E+22	1,930572E+22	1,404944E+21	1,404660E+21	3,861044E+22	2,809604E+21	4,142004E+22
-2194	1,930521E+22	1,930476E+22	1,404727E+21	1,404979E+21	3,860997E+22	2,809707E+21	4,141967E+22
-2193	1,930472E+22	1,930436E+22	1,404792E+21	1,404770E+21	3,860908E+22	2,809561E+21	4,141864E+22
-2192	1,930371E+22	1,930484E+22	1,404967E+21	1,404852E+21	3,860855E+22	2,809819E+21	4,141837E+22
-2191	1,930503E+22	1,930394E+22	1,404646E+21	1,404953E+21	3,860897E+22	2,809599E+21	4,141857E+22
-2190	1,930446E+22	1,930469E+22	1,404861E+21	1,404630E+21	3,860915E+22	2,809490E+21	4,141864E+22
-2189	1,930485E+22	1,930539E+22	1,404846E+21	1,404823E+21	3,861023E+22	2,809669E+21	4,141990E+22
-2188	1,930609E+22	1,930509E+22	1,404566E+21	1,404748E+21	3,861118E+22	2,809314E+21	4,142050E+22
-2187	1,930516E+22	1,930633E+22	1,404796E+21	1,404525E+21	3,861149E+22	2,809321E+21	4,142081E+22
-2186	1,930642E+22	1,930636E+22	1,404589E+21	1,404787E+21	3,861278E+22	2,809377E+21	4,142216E+22
-2185	1,930710E+22	1,930634E+22	1,404495E+21	1,404533E+21	3,861344E+22	2,809028E+21	4,142247E+22
-2184	1,930631E+22	1,930731E+22	1,404737E+21	1,404503E+21	3,861362E+22	2,809240E+21	4,142286E+22
-2183	1,930747E+22	1,930667E+22	1,404439E+21	1,404710E+21	3,861414E+22	2,809149E+21	4,142329E+22
-2182	1,930673E+22	1,930675E+22	1,404601E+21	1,404480E+21	3,861348E+22	2,809081E+21	4,142256E+22
-2181	1,930600E+22	1,930695E+22	1,404764E+21	1,404700E+21	3,861295E+22	2,809464E+21	4,142241E+22
-2180	1,930668E+22	1,930562E+22	1,404501E+21	1,404805E+21	3,861230E+22	2,809307E+21	4,142160E+22
-2179	1,930509E+22	1,930558E+22	1,404832E+21	1,404607E+21	3,861067E+22	2,809439E+21	4,142011E+22
-2178	1,930509E+22	1,930500E+22	1,404822E+21	1,404933E+21	3,861009E+22	2,809755E+21	4,141985E+22
-2177	1,930514E+22	1,930396E+22	1,404722E+21	1,404866E+21	3,860910E+22	2,809589E+21	4,141869E+22
-2176	1,930329E+22	1,930433E+22	1,405056E+21	1,404818E+21	3,860761E+22	2,809874E+21	4,141748E+22
-2175	1,930381E+22	1,930338E+22	1,404823E+21	1,405109E+21	3,860719E+22	2,809932E+21	4,141713E+22
-2174	1,930334E+22	1,930299E+22	1,404908E+21	1,404876E+21	3,860634E+22	2,809784E+21	4,141612E+22
-2173	1,930260E+22	1,930367E+22	1,405110E+21	1,404918E+21	3,860627E+22	2,810027E+21	4,141630E+22
-2172	1,930397E+22	1,930294E+22	1,404784E+21	1,405047E+21	3,860691E+22	2,809832E+21	4,141674E+22
-2171	1,930324E+22	1,930360E+22	1,404963E+21	1,404729E+21	3,860683E+22	2,809692E+21	4,141652E+22
-2170	1,930372E+22	1,930429E+22	1,404941E+21	1,404943E+21	3,860801E+22	2,809884E+21	4,141789E+22
-2169	1,930498E+22	1,930407E+22	1,404650E+21	1,404871E+21	3,860905E+22	2,809521E+21	4,141857E+22
-2168	1,930423E+22	1,930524E+22	1,404876E+21	1,404635E+21	3,860947E+22	2,809511E+21	4,141898E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2167	1,930551E+22	1,930526E+22	1,404674E+21	1,404862E+21	3,861077E+22	2,809536E+21	4,142031E+22
-2166	1,930596E+22	1,930523E+22	1,404613E+21	1,404626E+21	3,861119E+22	2,809239E+21	4,142043E+22
-2165	1,930510E+22	1,930628E+22	1,404878E+21	1,404609E+21	3,861138E+22	2,809486E+21	4,142087E+22
-2164	1,930607E+22	1,930553E+22	1,404575E+21	1,404865E+21	3,861160E+22	2,809440E+21	4,142104E+22
-2163	1,930520E+22	1,930525E+22	1,404720E+21	1,404628E+21	3,861045E+22	2,809347E+21	4,141980E+22
-2162	1,930471E+22	1,930534E+22	1,404889E+21	1,404836E+21	3,861005E+22	2,809726E+21	4,141977E+22
-2161	1,930542E+22	1,930415E+22	1,404635E+21	1,404932E+21	3,860957E+22	2,809567E+21	4,141914E+22
-2160	1,930390E+22	1,930418E+22	1,404957E+21	1,404741E+21	3,860808E+22	2,809698E+21	4,141778E+22
-2159	1,930373E+22	1,930371E+22	1,404934E+21	1,405054E+21	3,860744E+22	2,809988E+21	4,141743E+22
-2158	1,930354E+22	1,930266E+22	1,404853E+21	1,405008E+21	3,860621E+22	2,809862E+21	4,141607E+22
-2157	1,930182E+22	1,930307E+22	1,405204E+21	1,404936E+21	3,860489E+22	2,810141E+21	4,141503E+22
-2156	1,930242E+22	1,930212E+22	1,404968E+21	1,405235E+21	3,860454E+22	2,810203E+21	4,141475E+22
-2155	1,930201E+22	1,930154E+22	1,405037E+21	1,404977E+21	3,860354E+22	2,810014E+21	4,141356E+22
-2154	1,930148E+22	1,930230E+22	1,405231E+21	1,405027E+21	3,860378E+22	2,810258E+21	4,141404E+22
-2153	1,930280E+22	1,930185E+22	1,404886E+21	1,405178E+21	3,860466E+22	2,810064E+21	4,141472E+22
-2152	1,930219E+22	1,930251E+22	1,405033E+21	1,404868E+21	3,860470E+22	2,809901E+21	4,141460E+22
-2151	1,930271E+22	1,930324E+22	1,405002E+21	1,405041E+21	3,860595E+22	2,810042E+21	4,141599E+22
-2150	1,930394E+22	1,930305E+22	1,404743E+21	1,404953E+21	3,860699E+22	2,809696E+21	4,141668E+22
-2149	1,930329E+22	1,930428E+22	1,405007E+21	1,404690E+21	3,860757E+22	2,809697E+21	4,141727E+22
-2148	1,930439E+22	1,930435E+22	1,404810E+21	1,404956E+21	3,860875E+22	2,809766E+21	4,141851E+22
-2147	1,930458E+22	1,930401E+22	1,404727E+21	1,404745E+21	3,860859E+22	2,809472E+21	4,141806E+22
-2146	1,930377E+22	1,930489E+22	1,404988E+21	1,404757E+21	3,860866E+22	2,809744E+21	4,141840E+22
-2145	1,930476E+22	1,930418E+22	1,404682E+21	1,405020E+21	3,860893E+22	2,809702E+21	4,141863E+22
-2144	1,930408E+22	1,930379E+22	1,404820E+21	1,404770E+21	3,860787E+22	2,809590E+21	4,141746E+22
-2143	1,930360E+22	1,930394E+22	1,404999E+21	1,404934E+21	3,860754E+22	2,809932E+21	4,141747E+22
-2142	1,930406E+22	1,930287E+22	1,404785E+21	1,405047E+21	3,860692E+22	2,809831E+21	4,141676E+22
-2141	1,930241E+22	1,930300E+22	1,405129E+21	1,404866E+21	3,860541E+22	2,809995E+21	4,141540E+22
-2140	1,930205E+22	1,930247E+22	1,405096E+21	1,405210E+21	3,860452E+22	2,810306E+21	4,141483E+22
-2139	1,930181E+22	1,930106E+22	1,404996E+21	1,405154E+21	3,860287E+22	2,810149E+21	4,141302E+22
-2138	1,930043E+22	1,930140E+22	1,405336E+21	1,405067E+21	3,860183E+22	2,810403E+21	4,141223E+22
-2137	1,930117E+22	1,930069E+22	1,405091E+21	1,405354E+21	3,860185E+22	2,810446E+21	4,141230E+22
-2136	1,930095E+22	1,930024E+22	1,405127E+21	1,405106E+21	3,860119E+22	2,810233E+21	4,141143E+22
-2135	1,930044E+22	1,930121E+22	1,405296E+21	1,405133E+21	3,860165E+22	2,810429E+21	4,141208E+22
-2134	1,930164E+22	1,930090E+22	1,404979E+21	1,405290E+21	3,860254E+22	2,810269E+21	4,141281E+22
-2133	1,930119E+22	1,930166E+22	1,405145E+21	1,404954E+21	3,860285E+22	2,810099E+21	4,141295E+22
-2132	1,930169E+22	1,930235E+22	1,405122E+21	1,405116E+21	3,860404E+22	2,810238E+21	4,141428E+22
-2131	1,930278E+22	1,930187E+22	1,404862E+21	1,405025E+21	3,860465E+22	2,809887E+21	4,141454E+22
-2130	1,930221E+22	1,930303E+22	1,405122E+21	1,404796E+21	3,860524E+22	2,809919E+21	4,141516E+22
-2129	1,930310E+22	1,930320E+22	1,404916E+21	1,405095E+21	3,860629E+22	2,810011E+21	4,141630E+22
-2128	1,930339E+22	1,930269E+22	1,404808E+21	1,404908E+21	3,860608E+22	2,809715E+21	4,141579E+22
-2127	1,930267E+22	1,930352E+22	1,405060E+21	1,404874E+21	3,860619E+22	2,809934E+21	4,141612E+22
-2126	1,930358E+22	1,930289E+22	1,404803E+21	1,405124E+21	3,860648E+22	2,809927E+21	4,141640E+22
-2125	1,930297E+22	1,930264E+22	1,404975E+21	1,404859E+21	3,860561E+22	2,809834E+21	4,141544E+22
-2124	1,930220E+22	1,930285E+22	1,405160E+21	1,405050E+21	3,860506E+22	2,810211E+21	4,141527E+22
-2123	1,930233E+22	1,930147E+22	1,404937E+21	1,405193E+21	3,860380E+22	2,810130E+21	4,141393E+22
-2122	1,930079E+22	1,930140E+22	1,405273E+21	1,405038E+21	3,860219E+22	2,810311E+21	4,141250E+22
-2121	1,930045E+22	1,930092E+22	1,405229E+21	1,405373E+21	3,860137E+22	2,810603E+21	4,141197E+22
-2120	1,930053E+22	1,929940E+22	1,405104E+21	1,405307E+21	3,859993E+22	2,810411E+21	4,141034E+22
-2119	1,929933E+22	1,929989E+22	1,405425E+21	1,405170E+21	3,859922E+22	2,810595E+21	4,140981E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2118	1,929999E+22	1,929950E+22	1,405209E+21	1,405467E+21	3,859948E+22	2,810677E+21	4,141016E+22
-2117	1,929981E+22	1,929928E+22	1,405252E+21	1,405211E+21	3,859909E+22	2,810463E+21	4,140955E+22
-2116	1,929922E+22	1,930032E+22	1,405416E+21	1,405240E+21	3,859954E+22	2,810656E+21	4,141020E+22
-2115	1,930035E+22	1,929974E+22	1,405096E+21	1,405375E+21	3,860009E+22	2,810471E+21	4,141056E+22
-2114	1,930014E+22	1,930041E+22	1,405261E+21	1,405035E+21	3,860055E+22	2,810296E+21	4,141084E+22
-2113	1,930058E+22	1,930126E+22	1,405236E+21	1,405201E+21	3,860185E+22	2,810437E+21	4,141228E+22
-2112	1,930172E+22	1,930071E+22	1,404945E+21	1,405144E+21	3,860243E+22	2,810090E+21	4,141252E+22
-2111	1,930113E+22	1,930187E+22	1,405180E+21	1,404911E+21	3,860300E+22	2,810091E+21	4,141309E+22
-2110	1,930191E+22	1,930208E+22	1,405011E+21	1,405224E+21	3,860399E+22	2,810234E+21	4,141423E+22
-2109	1,930233E+22	1,930162E+22	1,404927E+21	1,405017E+21	3,860395E+22	2,809943E+21	4,141389E+22
-2108	1,930156E+22	1,930244E+22	1,405195E+21	1,404973E+21	3,860399E+22	2,810168E+21	4,141416E+22
-2107	1,930223E+22	1,930153E+22	1,404958E+21	1,405225E+21	3,860376E+22	2,810183E+21	4,141395E+22
-2106	1,930158E+22	1,930121E+22	1,405130E+21	1,405005E+21	3,860279E+22	2,810135E+21	4,141293E+22
-2105	1,930052E+22	1,930147E+22	1,405306E+21	1,405219E+21	3,860199E+22	2,810525E+21	4,141252E+22
-2104	1,930077E+22	1,929984E+22	1,405054E+21	1,405382E+21	3,860061E+22	2,810436E+21	4,141105E+22
-2103	1,929942E+22	1,929971E+22	1,405368E+21	1,405175E+21	3,859913E+22	2,810542E+21	4,140967E+22
-2102	1,929912E+22	1,929941E+22	1,405360E+21	1,405484E+21	3,859853E+22	2,810844E+21	4,140937E+22
-2101	1,929939E+22	1,929817E+22	1,405249E+21	1,405400E+21	3,859757E+22	2,810649E+21	4,140821E+22
-2100	1,929810E+22	1,929886E+22	1,405556E+21	1,405271E+21	3,859695E+22	2,810827E+21	4,140778E+22
-2099	1,929853E+22	1,929832E+22	1,405341E+21	1,405581E+21	3,859685E+22	2,810922E+21	4,140777E+22
-2098	1,929855E+22	1,929809E+22	1,405369E+21	1,405340E+21	3,859664E+22	2,810708E+21	4,140734E+22
-2097	1,929796E+22	1,929921E+22	1,405528E+21	1,405346E+21	3,859716E+22	2,810874E+21	4,140804E+22
-2096	1,929933E+22	1,929848E+22	1,405187E+21	1,405477E+21	3,859781E+22	2,810664E+21	4,140847E+22
-2095	1,929922E+22	1,929918E+22	1,405333E+21	1,405113E+21	3,859840E+22	2,810445E+21	4,140884E+22
-2094	1,929946E+22	1,930023E+22	1,405335E+21	1,405305E+21	3,859970E+22	2,810640E+21	4,141034E+22
-2093	1,930063E+22	1,929978E+22	1,405050E+21	1,405263E+21	3,860041E+22	2,810314E+21	4,141073E+22
-2092	1,930000E+22	1,930088E+22	1,405278E+21	1,405032E+21	3,860088E+22	2,810310E+21	4,141119E+22
-2091	1,930068E+22	1,930080E+22	1,405132E+21	1,405327E+21	3,860148E+22	2,810459E+21	4,141194E+22
-2090	1,930126E+22	1,930028E+22	1,405058E+21	1,405122E+21	3,860154E+22	2,810181E+21	4,141172E+22
-2089	1,930028E+22	1,930121E+22	1,405339E+21	1,405085E+21	3,860149E+22	2,810424E+21	4,141192E+22
-2088	1,930087E+22	1,930016E+22	1,405080E+21	1,405375E+21	3,860104E+22	2,810455E+21	4,141149E+22
-2087	1,930014E+22	1,929975E+22	1,405231E+21	1,405156E+21	3,859989E+22	2,810388E+21	4,141028E+22
-2086	1,929899E+22	1,930005E+22	1,405436E+21	1,405374E+21	3,859904E+22	2,810810E+21	4,140985E+22
-2085	1,929941E+22	1,929844E+22	1,405199E+21	1,405508E+21	3,859784E+22	2,810707E+21	4,140855E+22
-2084	1,929811E+22	1,929833E+22	1,405512E+21	1,405278E+21	3,859644E+22	2,810790E+21	4,140723E+22
-2083	1,929769E+22	1,929791E+22	1,405520E+21	1,405586E+21	3,859560E+22	2,811106E+21	4,140670E+22
-2082	1,929799E+22	1,929681E+22	1,405398E+21	1,405535E+21	3,859480E+22	2,810933E+21	4,140573E+22
-2081	1,929657E+22	1,929766E+22	1,405687E+21	1,405419E+21	3,859424E+22	2,811106E+21	4,140535E+22
-2080	1,929721E+22	1,929697E+22	1,405444E+21	1,405728E+21	3,859418E+22	2,811173E+21	4,140535E+22
-2079	1,929745E+22	1,929675E+22	1,405443E+21	1,405438E+21	3,859420E+22	2,810880E+21	4,140508E+22
-2078	1,929689E+22	1,929807E+22	1,405629E+21	1,405425E+21	3,859496E+22	2,811054E+21	4,140602E+22
-2077	1,929836E+22	1,929754E+22	1,405296E+21	1,405551E+21	3,859591E+22	2,810847E+21	4,140675E+22
-2076	1,929816E+22	1,929832E+22	1,405426E+21	1,405207E+21	3,859648E+22	2,810633E+21	4,140711E+22
-2075	1,929821E+22	1,929912E+22	1,405444E+21	1,405419E+21	3,859733E+22	2,810862E+21	4,140819E+22
-2074	1,929953E+22	1,929864E+22	1,405159E+21	1,405394E+21	3,859817E+22	2,810553E+21	4,140872E+22
-2073	1,929888E+22	1,929975E+22	1,405390E+21	1,405148E+21	3,859863E+22	2,810537E+21	4,140917E+22
-2072	1,929967E+22	1,929948E+22	1,405241E+21	1,405439E+21	3,859915E+22	2,810680E+21	4,140983E+22
-2071	1,930021E+22	1,929896E+22	1,405156E+21	1,405228E+21	3,859917E+22	2,810385E+21	4,140955E+22
-2070	1,929889E+22	1,930001E+22	1,405471E+21	1,405215E+21	3,859890E+22	2,810686E+21	4,140959E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2069	1,929942E+22	1,929897E+22	1,405224E+21	1,405516E+21	3,859839E+22	2,810739E+21	4,140913E+22
-2068	1,929867E+22	1,929840E+22	1,405369E+21	1,405292E+21	3,859707E+22	2,810661E+21	4,140773E+22
-2067	1,929740E+22	1,929840E+22	1,405595E+21	1,405491E+21	3,859580E+22	2,811086E+21	4,140689E+22
-2066	1,929802E+22	1,929686E+22	1,405357E+21	1,405632E+21	3,859487E+22	2,810989E+21	4,140586E+22
-2065	1,929664E+22	1,929693E+22	1,405657E+21	1,405412E+21	3,859358E+22	2,811069E+21	4,140464E+22
-2064	1,929627E+22	1,929647E+22	1,405637E+21	1,405745E+21	3,859274E+22	2,811382E+21	4,140412E+22
-2063	1,929666E+22	1,929543E+22	1,405486E+21	1,405682E+21	3,859210E+22	2,811168E+21	4,140326E+22
-2062	1,929526E+22	1,929646E+22	1,405795E+21	1,405550E+21	3,859172E+22	2,811345E+21	4,140306E+22
-2061	1,929612E+22	1,929588E+22	1,405563E+21	1,405819E+21	3,859200E+22	2,811382E+21	4,140338E+22
-2060	1,929643E+22	1,929570E+22	1,405553E+21	1,405508E+21	3,859213E+22	2,811062E+21	4,140319E+22
-2059	1,929569E+22	1,929689E+22	1,405756E+21	1,405506E+21	3,859257E+22	2,811262E+21	4,140383E+22
-2058	1,929715E+22	1,929646E+22	1,405411E+21	1,405671E+21	3,859362E+22	2,811081E+21	4,140470E+22
-2057	1,929690E+22	1,929727E+22	1,405528E+21	1,405344E+21	3,859417E+22	2,810872E+21	4,140504E+22
-2056	1,929716E+22	1,929784E+22	1,405531E+21	1,405551E+21	3,859500E+22	2,811082E+21	4,140609E+22
-2055	1,929862E+22	1,929737E+22	1,405237E+21	1,405483E+21	3,859598E+22	2,810720E+21	4,140670E+22
-2054	1,929790E+22	1,929867E+22	1,405504E+21	1,405232E+21	3,859657E+22	2,810735E+21	4,140730E+22
-2053	1,929859E+22	1,929850E+22	1,405373E+21	1,405522E+21	3,859709E+22	2,810895E+21	4,140799E+22
-2052	1,929886E+22	1,929795E+22	1,405282E+21	1,405342E+21	3,859681E+22	2,810624E+21	4,140743E+22
-2051	1,929727E+22	1,929863E+22	1,405620E+21	1,405357E+21	3,859590E+22	2,810977E+21	4,140687E+22
-2050	1,929785E+22	1,929749E+22	1,405373E+21	1,405670E+21	3,859534E+22	2,811043E+21	4,140638E+22
-2049	1,929713E+22	1,929687E+22	1,405517E+21	1,405442E+21	3,859400E+22	2,810959E+21	4,140496E+22
-2048	1,929607E+22	1,929666E+22	1,405728E+21	1,405635E+21	3,859273E+22	2,811363E+21	4,140410E+22
-2047	1,929672E+22	1,929527E+22	1,405468E+21	1,405772E+21	3,859199E+22	2,811240E+21	4,140323E+22
-2046	1,929521E+22	1,929563E+22	1,405777E+21	1,405569E+21	3,859084E+22	2,811346E+21	4,140218E+22
-2045	1,929492E+22	1,929530E+22	1,405763E+21	1,405885E+21	3,859022E+22	2,811648E+21	4,140187E+22
-2044	1,929539E+22	1,929429E+22	1,405604E+21	1,405792E+21	3,858968E+22	2,811396E+21	4,140108E+22
-2043	1,929394E+22	1,929512E+22	1,405934E+21	1,405633E+21	3,858906E+22	2,811567E+21	4,140063E+22
-2042	1,929492E+22	1,929468E+22	1,405702E+21	1,405899E+21	3,858960E+22	2,811601E+21	4,140121E+22
-2041	1,929515E+22	1,929463E+22	1,405674E+21	1,405614E+21	3,858979E+22	2,811288E+21	4,140107E+22
-2040	1,929450E+22	1,929565E+22	1,405844E+21	1,405640E+21	3,859016E+22	2,811484E+21	4,140164E+22
-2039	1,929612E+22	1,929528E+22	1,405475E+21	1,405800E+21	3,859140E+22	2,811275E+21	4,140267E+22
-2038	1,929591E+22	1,929622E+22	1,405609E+21	1,405458E+21	3,859214E+22	2,811067E+21	4,140320E+22
-2037	1,929632E+22	1,929689E+22	1,405634E+21	1,405627E+21	3,859321E+22	2,811261E+21	4,140447E+22
-2036	1,929772E+22	1,929642E+22	1,405347E+21	1,405547E+21	3,859414E+22	2,810893E+21	4,140503E+22
-2035	1,929659E+22	1,929750E+22	1,405648E+21	1,405328E+21	3,859410E+22	2,810976E+21	4,140507E+22
-2034	1,929709E+22	1,929735E+22	1,405517E+21	1,405657E+21	3,859444E+22	2,811174E+21	4,140561E+22
-2033	1,929724E+22	1,929662E+22	1,405421E+21	1,405514E+21	3,859386E+22	2,810934E+21	4,140480E+22
-2032	1,929582E+22	1,929692E+22	1,405739E+21	1,405525E+21	3,859274E+22	2,811265E+21	4,140401E+22
-2031	1,929658E+22	1,929578E+22	1,405479E+21	1,405805E+21	3,859235E+22	2,811284E+21	4,140364E+22
-2030	1,929586E+22	1,929538E+22	1,405641E+21	1,405571E+21	3,859124E+22	2,811212E+21	4,140245E+22
-2029	1,929483E+22	1,929539E+22	1,405857E+21	1,405759E+21	3,859022E+22	2,811616E+21	4,140184E+22
-2028	1,929534E+22	1,929411E+22	1,405595E+21	1,405900E+21	3,858946E+22	2,811495E+21	4,140095E+22
-2027	1,929365E+22	1,929429E+22	1,405930E+21	1,405707E+21	3,858794E+22	2,811637E+21	4,139958E+22
-2026	1,929345E+22	1,929403E+22	1,405916E+21	1,406003E+21	3,858748E+22	2,811919E+21	4,139940E+22
-2025	1,929398E+22	1,929301E+22	1,405753E+21	1,405906E+21	3,858699E+22	2,811659E+21	4,139865E+22
-2024	1,929273E+22	1,929362E+22	1,406055E+21	1,405745E+21	3,858635E+22	2,811800E+21	4,139815E+22
-2023	1,929371E+22	1,929334E+22	1,405793E+21	1,406010E+21	3,858705E+22	2,811803E+21	4,139885E+22
-2022	1,929393E+22	1,929353E+22	1,405761E+21	1,405749E+21	3,858747E+22	2,811510E+21	4,139898E+22
-2021	1,929351E+22	1,929462E+22	1,405928E+21	1,405757E+21	3,858813E+22	2,811685E+21	4,139982E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2020	1,929519E+22	1,929432E+22	1,405563E+21	1,405880E+21	3,858952E+22	2,811442E+21	4,140096E+22
-2019	1,929490E+22	1,929513E+22	1,405726E+21	1,405530E+21	3,859003E+22	2,811256E+21	4,140128E+22
-2018	1,929524E+22	1,929591E+22	1,405765E+21	1,405696E+21	3,859115E+22	2,811460E+21	4,140261E+22
-2017	1,929640E+22	1,929543E+22	1,405475E+21	1,405663E+21	3,859183E+22	2,811138E+21	4,140297E+22
-2016	1,929523E+22	1,929613E+22	1,405757E+21	1,405484E+21	3,859136E+22	2,811241E+21	4,140260E+22
-2015	1,929572E+22	1,929589E+22	1,405611E+21	1,405812E+21	3,859161E+22	2,811423E+21	4,140304E+22
-2014	1,929593E+22	1,929521E+22	1,405530E+21	1,405667E+21	3,859113E+22	2,811197E+21	4,140233E+22
-2013	1,929473E+22	1,929549E+22	1,405857E+21	1,405644E+21	3,859022E+22	2,811502E+21	4,140172E+22
-2012	1,929543E+22	1,929445E+22	1,405609E+21	1,405905E+21	3,858988E+22	2,811514E+21	4,140140E+22
-2011	1,929439E+22	1,929398E+22	1,405798E+21	1,405701E+21	3,858837E+22	2,811499E+21	4,139987E+22
-2010	1,929322E+22	1,929414E+22	1,406018E+21	1,405900E+21	3,858736E+22	2,811918E+21	4,139928E+22
-2009	1,929369E+22	1,929280E+22	1,405759E+21	1,406060E+21	3,858649E+22	2,811820E+21	4,139831E+22
-2008	1,929218E+22	1,929266E+22	1,406069E+21	1,405852E+21	3,858484E+22	2,811922E+21	4,139676E+22
-2007	1,929215E+22	1,929248E+22	1,406031E+21	1,406110E+21	3,858463E+22	2,812142E+21	4,139677E+22
-2006	1,929272E+22	1,929168E+22	1,405864E+21	1,406017E+21	3,858440E+22	2,811881E+21	4,139628E+22
-2005	1,929159E+22	1,929246E+22	1,406147E+21	1,405856E+21	3,858405E+22	2,812003E+21	4,139606E+22
-2004	1,929261E+22	1,929232E+22	1,405874E+21	1,406117E+21	3,858493E+22	2,811991E+21	4,139692E+22
-2003	1,929275E+22	1,929242E+22	1,405865E+21	1,405864E+21	3,858517E+22	2,811729E+21	4,139690E+22
-2002	1,929247E+22	1,929366E+22	1,406040E+21	1,405843E+21	3,858613E+22	2,811883E+21	4,139801E+22
-2001	1,929417E+22	1,929335E+22	1,405690E+21	1,405965E+21	3,858751E+22	2,811655E+21	4,139917E+22
-2000	1,929389E+22	1,929387E+22	1,405835E+21	1,405632E+21	3,858775E+22	2,811468E+21	4,139922E+22
-1999	1,929405E+22	1,929470E+22	1,405856E+21	1,405810E+21	3,858875E+22	2,811666E+21	4,140041E+22
-1998	1,929505E+22	1,929427E+22	1,405574E+21	1,405813E+21	3,858931E+22	2,811387E+21	4,140070E+22
-1997	1,929407E+22	1,929483E+22	1,405858E+21	1,405626E+21	3,858889E+22	2,811484E+21	4,140038E+22
-1996	1,929459E+22	1,929457E+22	1,405723E+21	1,405912E+21	3,858916E+22	2,811635E+21	4,140079E+22
-1995	1,929465E+22	1,929376E+22	1,405679E+21	1,405771E+21	3,858842E+22	2,811450E+21	4,139987E+22
-1994	1,929337E+22	1,929423E+22	1,406013E+21	1,405744E+21	3,858760E+22	2,811758E+21	4,139935E+22
-1993	1,929385E+22	1,929323E+22	1,405773E+21	1,406052E+21	3,858708E+22	2,811825E+21	4,139891E+22
-1992	1,929281E+22	1,929244E+22	1,405939E+21	1,405881E+21	3,858525E+22	2,811820E+21	4,139707E+22
-1991	1,929166E+22	1,929258E+22	1,406141E+21	1,406056E+21	3,858424E+22	2,812197E+21	4,139643E+22
-1990	1,929222E+22	1,929135E+22	1,405890E+21	1,406207E+21	3,858357E+22	2,812096E+21	4,139566E+22
-1989	1,929102E+22	1,929118E+22	1,406190E+21	1,405967E+21	3,858220E+22	2,812156E+21	4,139436E+22
-1988	1,929095E+22	1,929117E+22	1,406144E+21	1,406196E+21	3,858211E+22	2,812340E+21	4,139445E+22
-1987	1,929132E+22	1,929042E+22	1,405987E+21	1,406140E+21	3,858174E+22	2,812128E+21	4,139387E+22
-1986	1,929026E+22	1,929139E+22	1,406259E+21	1,405976E+21	3,858164E+22	2,812235E+21	4,139388E+22
-1985	1,929139E+22	1,929127E+22	1,405997E+21	1,406244E+21	3,858266E+22	2,812241E+21	4,139490E+22
-1984	1,929176E+22	1,929112E+22	1,405965E+21	1,405969E+21	3,858289E+22	2,811934E+21	4,139482E+22
-1983	1,929155E+22	1,929248E+22	1,406128E+21	1,405913E+21	3,858403E+22	2,812042E+21	4,139607E+22
-1982	1,929313E+22	1,929237E+22	1,405787E+21	1,406052E+21	3,858550E+22	2,811839E+21	4,139734E+22
-1981	1,929286E+22	1,929286E+22	1,405922E+21	1,405745E+21	3,858572E+22	2,811666E+21	4,139738E+22
-1980	1,929288E+22	1,929367E+22	1,405947E+21	1,405916E+21	3,858655E+22	2,811863E+21	4,139842E+22
-1979	1,929371E+22	1,929303E+22	1,405699E+21	1,405944E+21	3,858674E+22	2,811643E+21	4,139838E+22
-1978	1,929280E+22	1,929360E+22	1,405993E+21	1,405733E+21	3,858641E+22	2,811726E+21	4,139813E+22
-1977	1,929332E+22	1,929327E+22	1,405883E+21	1,406030E+21	3,858659E+22	2,811913E+21	4,139850E+22
-1976	1,929332E+22	1,929219E+22	1,405822E+21	1,405911E+21	3,858551E+22	2,811733E+21	4,139724E+22
-1975	1,929188E+22	1,929275E+22	1,406134E+21	1,405900E+21	3,858463E+22	2,812035E+21	4,139667E+22
-1974	1,929225E+22	1,929182E+22	1,405905E+21	1,406228E+21	3,858407E+22	2,812132E+21	4,139620E+22
-1973	1,929142E+22	1,929093E+22	1,406064E+21	1,406044E+21	3,858235E+22	2,812108E+21	4,139446E+22
-1972	1,929035E+22	1,929113E+22	1,406263E+21	1,406158E+21	3,858148E+22	2,812421E+21	4,139390E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1971	1,929080E+22	1,928986E+22	1,406041E+21	1,406311E+21	3,858066E+22	2,812352E+21	4,139301E+22
-1970	1,928961E+22	1,928993E+22	1,406330E+21	1,406062E+21	3,857953E+22	2,812392E+21	4,139193E+22
-1969	1,928949E+22	1,928999E+22	1,406287E+21	1,406326E+21	3,857948E+22	2,812612E+21	4,139210E+22
-1968	1,928998E+22	1,928904E+22	1,406098E+21	1,406289E+21	3,857902E+22	2,812387E+21	4,139141E+22
-1967	1,928912E+22	1,929012E+22	1,406343E+21	1,406099E+21	3,857924E+22	2,812442E+21	4,139168E+22
-1966	1,929037E+22	1,929019E+22	1,406097E+21	1,406345E+21	3,858056E+22	2,812442E+21	4,139300E+22
-1965	1,929099E+22	1,929005E+22	1,406057E+21	1,406052E+21	3,858104E+22	2,812109E+21	4,139315E+22
-1964	1,929062E+22	1,929152E+22	1,406220E+21	1,405971E+21	3,858214E+22	2,812191E+21	4,139433E+22
-1963	1,929181E+22	1,929137E+22	1,405906E+21	1,406160E+21	3,858318E+22	2,812066E+21	4,139525E+22
-1962	1,929150E+22	1,929184E+22	1,406043E+21	1,405863E+21	3,858334E+22	2,811906E+21	4,139525E+22
-1961	1,929155E+22	1,929250E+22	1,406089E+21	1,406050E+21	3,858404E+22	2,812139E+21	4,139618E+22
-1960	1,929251E+22	1,929151E+22	1,405823E+21	1,406076E+21	3,858402E+22	2,811899E+21	4,139592E+22
-1959	1,929165E+22	1,929211E+22	1,406099E+21	1,405846E+21	3,858376E+22	2,811945E+21	4,139571E+22
-1958	1,929201E+22	1,929197E+22	1,406003E+21	1,406163E+21	3,858398E+22	2,812166E+21	4,139615E+22
-1957	1,929206E+22	1,929085E+22	1,405929E+21	1,406070E+21	3,858292E+22	2,811999E+21	4,139491E+22
-1956	1,929049E+22	1,929142E+22	1,406250E+21	1,406031E+21	3,858191E+22	2,812281E+21	4,139419E+22
-1955	1,929068E+22	1,929041E+22	1,406059E+21	1,406369E+21	3,858109E+22	2,812429E+21	4,139352E+22
-1954	1,928995E+22	1,928956E+22	1,406226E+21	1,406155E+21	3,857951E+22	2,812381E+21	4,139190E+22
-1953	1,928889E+22	1,928972E+22	1,406439E+21	1,406275E+21	3,857861E+22	2,812713E+21	4,139132E+22
-1952	1,928930E+22	1,928826E+22	1,406184E+21	1,406451E+21	3,857756E+22	2,812635E+21	4,139019E+22
-1951	1,928813E+22	1,928845E+22	1,406431E+21	1,406212E+21	3,857658E+22	2,812643E+21	4,138923E+22
-1950	1,928813E+22	1,928869E+22	1,406393E+21	1,406479E+21	3,857682E+22	2,812873E+21	4,138969E+22
-1949	1,928899E+22	1,928778E+22	1,406189E+21	1,406417E+21	3,857677E+22	2,812606E+21	4,138938E+22
-1948	1,928825E+22	1,928905E+22	1,406430E+21	1,406158E+21	3,857729E+22	2,812588E+21	4,138988E+22
-1947	1,928931E+22	1,928919E+22	1,406221E+21	1,406411E+21	3,857850E+22	2,812631E+21	4,139113E+22
-1946	1,928981E+22	1,928924E+22	1,406175E+21	1,406125E+21	3,857905E+22	2,812300E+21	4,139135E+22
-1945	1,928931E+22	1,929061E+22	1,406348E+21	1,406092E+21	3,857992E+22	2,812440E+21	4,139236E+22
-1944	1,929047E+22	1,929006E+22	1,406015E+21	1,406304E+21	3,858053E+22	2,812318E+21	4,139285E+22
-1943	1,929032E+22	1,929048E+22	1,406130E+21	1,405999E+21	3,858080E+22	2,812129E+21	4,139293E+22
-1942	1,929047E+22	1,929115E+22	1,406198E+21	1,406170E+21	3,858163E+22	2,812367E+21	4,139399E+22
-1941	1,929159E+22	1,929015E+22	1,405927E+21	1,406195E+21	3,858173E+22	2,812122E+21	4,139386E+22
-1940	1,929054E+22	1,929090E+22	1,406197E+21	1,405947E+21	3,858144E+22	2,812144E+21	4,139358E+22
-1939	1,929049E+22	1,929074E+22	1,406144E+21	1,406303E+21	3,858123E+22	2,812448E+21	4,139368E+22
-1938	1,929049E+22	1,928964E+22	1,406085E+21	1,406207E+21	3,858013E+22	2,812292E+21	4,139242E+22
-1937	1,928894E+22	1,929004E+22	1,406431E+21	1,406171E+21	3,857898E+22	2,812602E+21	4,139158E+22
-1936	1,928914E+22	1,928871E+22	1,406225E+21	1,406497E+21	3,857785E+22	2,812722E+21	4,139057E+22
-1935	1,928847E+22	1,928792E+22	1,406362E+21	1,406282E+21	3,857639E+22	2,812643E+21	4,138904E+22
-1934	1,928736E+22	1,928825E+22	1,406568E+21	1,406420E+21	3,857561E+22	2,812988E+21	4,138859E+22
-1933	1,928798E+22	1,928683E+22	1,406285E+21	1,406618E+21	3,857481E+22	2,812902E+21	4,138771E+22
-1932	1,928692E+22	1,928718E+22	1,406514E+21	1,406336E+21	3,857410E+22	2,812849E+21	4,138695E+22
-1931	1,928690E+22	1,928753E+22	1,406516E+21	1,406595E+21	3,857443E+22	2,813110E+21	4,138754E+22
-1930	1,928792E+22	1,928681E+22	1,406321E+21	1,406489E+21	3,857473E+22	2,812810E+21	4,138754E+22
-1929	1,928716E+22	1,928807E+22	1,406577E+21	1,406238E+21	3,857523E+22	2,812815E+21	4,138804E+22
-1928	1,928803E+22	1,928802E+22	1,406340E+21	1,406516E+21	3,857605E+22	2,812857E+21	4,138891E+22
-1927	1,928849E+22	1,928802E+22	1,406260E+21	1,406258E+21	3,857652E+22	2,812518E+21	4,138904E+22
-1926	1,928804E+22	1,928938E+22	1,406443E+21	1,406235E+21	3,857742E+22	2,812677E+21	4,139010E+22
-1925	1,928954E+22	1,928875E+22	1,406094E+21	1,406435E+21	3,857830E+22	2,812529E+21	4,139082E+22
-1924	1,928948E+22	1,928924E+22	1,406207E+21	1,406071E+21	3,857872E+22	2,812278E+21	4,139100E+22
-1923	1,928938E+22	1,929002E+22	1,406322E+21	1,406258E+21	3,857941E+22	2,812580E+21	4,139199E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1922	1,929031E+22	1,928919E+22	1,406064E+21	1,406290E+21	3,857950E+22	2,812353E+21	4,139186E+22
-1921	1,928908E+22	1,928981E+22	1,406357E+21	1,406090E+21	3,857889E+22	2,812447E+21	4,139134E+22
-1920	1,928888E+22	1,928927E+22	1,406297E+21	1,406458E+21	3,857814E+22	2,812755E+21	4,139090E+22
-1919	1,928894E+22	1,928806E+22	1,406221E+21	1,406364E+21	3,857701E+22	2,812585E+21	4,138959E+22
-1918	1,928747E+22	1,928842E+22	1,406581E+21	1,406316E+21	3,857589E+22	2,812897E+21	4,138879E+22
-1917	1,928783E+22	1,928706E+22	1,406352E+21	1,406646E+21	3,857489E+22	2,812998E+21	4,138789E+22
-1916	1,928709E+22	1,928643E+22	1,406462E+21	1,406413E+21	3,857352E+22	2,812875E+21	4,138640E+22
-1915	1,928581E+22	1,928686E+22	1,406694E+21	1,406577E+21	3,857267E+22	2,813271E+21	4,138594E+22
-1914	1,928657E+22	1,928566E+22	1,406422E+21	1,406747E+21	3,857223E+22	2,813169E+21	4,138539E+22
-1913	1,928572E+22	1,928602E+22	1,406663E+21	1,406452E+21	3,857175E+22	2,813115E+21	4,138486E+22
-1912	1,928570E+22	1,928620E+22	1,406653E+21	1,406680E+21	3,857189E+22	2,813332E+21	4,138523E+22
-1911	1,928673E+22	1,928563E+22	1,406429E+21	1,406578E+21	3,857235E+22	2,813007E+21	4,138536E+22
-1910	1,928590E+22	1,928695E+22	1,406679E+21	1,406352E+21	3,857285E+22	2,813030E+21	4,138588E+22
-1909	1,928688E+22	1,928682E+22	1,406417E+21	1,406650E+21	3,857371E+22	2,813067E+21	4,138677E+22
-1908	1,928745E+22	1,928689E+22	1,406320E+21	1,406363E+21	3,857433E+22	2,812683E+21	4,138702E+22
-1907	1,928698E+22	1,928825E+22	1,406545E+21	1,406339E+21	3,857523E+22	2,812885E+21	4,138811E+22
-1906	1,928857E+22	1,928777E+22	1,406224E+21	1,406505E+21	3,857634E+22	2,812729E+21	4,138907E+22
-1905	1,928844E+22	1,928822E+22	1,406353E+21	1,406167E+21	3,857666E+22	2,812520E+21	4,138918E+22
-1904	1,928798E+22	1,928877E+22	1,406456E+21	1,406381E+21	3,857674E+22	2,812837E+21	4,138958E+22
-1903	1,928878E+22	1,928786E+22	1,406185E+21	1,406448E+21	3,857664E+22	2,812633E+21	4,138927E+22
-1902	1,928755E+22	1,928833E+22	1,406497E+21	1,406261E+21	3,857589E+22	2,812757E+21	4,138864E+22
-1901	1,928755E+22	1,928766E+22	1,406421E+21	1,406612E+21	3,857521E+22	2,813034E+21	4,138824E+22
-1900	1,928767E+22	1,928649E+22	1,406333E+21	1,406476E+21	3,857416E+22	2,812809E+21	4,138697E+22
-1899	1,928601E+22	1,928694E+22	1,406721E+21	1,406448E+21	3,857295E+22	2,813168E+21	4,138612E+22
-1898	1,928632E+22	1,928580E+22	1,406496E+21	1,406774E+21	3,857212E+22	2,813270E+21	4,138539E+22
-1897	1,928561E+22	1,928514E+22	1,406613E+21	1,406566E+21	3,857075E+22	2,813179E+21	4,138393E+22
-1896	1,928432E+22	1,928541E+22	1,406832E+21	1,406719E+21	3,856973E+22	2,813550E+21	4,138328E+22
-1895	1,928526E+22	1,928428E+22	1,406550E+21	1,406868E+21	3,856954E+22	2,813417E+21	4,138296E+22
-1894	1,928453E+22	1,928471E+22	1,406798E+21	1,406558E+21	3,856924E+22	2,813356E+21	4,138260E+22
-1893	1,928462E+22	1,928493E+22	1,406754E+21	1,406785E+21	3,856955E+22	2,813539E+21	4,138309E+22
-1892	1,928554E+22	1,928449E+22	1,406498E+21	1,406675E+21	3,857002E+22	2,813173E+21	4,138319E+22
-1891	1,928460E+22	1,928583E+22	1,406774E+21	1,406479E+21	3,857042E+22	2,813253E+21	4,138368E+22
-1890	1,928572E+22	1,928583E+22	1,406529E+21	1,406745E+21	3,857156E+22	2,813274E+21	4,138483E+22
-1889	1,928648E+22	1,928584E+22	1,406446E+21	1,406457E+21	3,857232E+22	2,812903E+21	4,138523E+22
-1888	1,928593E+22	1,928702E+22	1,406664E+21	1,406424E+21	3,857295E+22	2,813088E+21	4,138604E+22
-1887	1,928742E+22	1,928663E+22	1,406334E+21	1,406609E+21	3,857405E+22	2,812943E+21	4,138699E+22
-1886	1,928714E+22	1,928706E+22	1,406468E+21	1,406312E+21	3,857420E+22	2,812780E+21	4,138698E+22
-1885	1,928670E+22	1,928743E+22	1,406554E+21	1,406540E+21	3,857413E+22	2,813094E+21	4,138722E+22
-1884	1,928749E+22	1,928649E+22	1,406276E+21	1,406582E+21	3,857397E+22	2,812859E+21	4,138683E+22
-1883	1,928620E+22	1,928688E+22	1,406635E+21	1,406399E+21	3,857308E+22	2,813033E+21	4,138612E+22
-1882	1,928621E+22	1,928632E+22	1,406584E+21	1,406711E+21	3,857252E+22	2,813295E+21	4,138582E+22
-1881	1,928628E+22	1,928512E+22	1,406503E+21	1,406609E+21	3,857141E+22	2,813112E+21	4,138452E+22
-1880	1,928434E+22	1,928535E+22	1,406865E+21	1,406598E+21	3,856969E+22	2,813463E+21	4,138315E+22
-1879	1,928467E+22	1,928426E+22	1,406633E+21	1,406939E+21	3,856893E+22	2,813572E+21	4,138250E+22
-1878	1,928416E+22	1,928362E+22	1,406755E+21	1,406725E+21	3,856778E+22	2,813480E+21	4,138126E+22
-1877	1,928313E+22	1,928390E+22	1,406950E+21	1,406840E+21	3,856703E+22	2,813790E+21	4,138082E+22
-1876	1,928414E+22	1,928298E+22	1,406651E+21	1,406946E+21	3,856712E+22	2,813596E+21	4,138071E+22
-1875	1,928324E+22	1,928357E+22	1,406915E+21	1,406661E+21	3,856680E+22	2,813576E+21	4,138038E+22
-1874	1,928327E+22	1,928399E+22	1,406874E+21	1,406877E+21	3,856726E+22	2,813750E+21	4,138101E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1873	1,928428E+22	1,928347E+22	1,406618E+21	1,406800E+21	3,856775E+22	2,813417E+21	4,138116E+22
-1872	1,928334E+22	1,928456E+22	1,406875E+21	1,406598E+21	3,856790E+22	2,813473E+21	4,138137E+22
-1871	1,928468E+22	1,928461E+22	1,406634E+21	1,406851E+21	3,856929E+22	2,813484E+21	4,138278E+22
-1870	1,928554E+22	1,928464E+22	1,406561E+21	1,406564E+21	3,857018E+22	2,813125E+21	4,138331E+22
-1869	1,928499E+22	1,928582E+22	1,406751E+21	1,406539E+21	3,857081E+22	2,813290E+21	4,138410E+22
-1868	1,928626E+22	1,928551E+22	1,406407E+21	1,406722E+21	3,857177E+22	2,813129E+21	4,138490E+22
-1867	1,928579E+22	1,928587E+22	1,406580E+21	1,406462E+21	3,857167E+22	2,813042E+21	4,138471E+22
-1866	1,928538E+22	1,928628E+22	1,406696E+21	1,406647E+21	3,857166E+22	2,813343E+21	4,138501E+22
-1865	1,928623E+22	1,928519E+22	1,406440E+21	1,406692E+21	3,857142E+22	2,813131E+21	4,138455E+22
-1864	1,928476E+22	1,928532E+22	1,406790E+21	1,406510E+21	3,857008E+22	2,813299E+21	4,138338E+22
-1863	1,928466E+22	1,928480E+22	1,406730E+21	1,406843E+21	3,856946E+22	2,813573E+21	4,138304E+22
-1862	1,928465E+22	1,928360E+22	1,406647E+21	1,406781E+21	3,856825E+22	2,813428E+21	4,138168E+22
-1861	1,928288E+22	1,928376E+22	1,406973E+21	1,406774E+21	3,856664E+22	2,813747E+21	4,138039E+22
-1860	1,928332E+22	1,928279E+22	1,406736E+21	1,407074E+21	3,856610E+22	2,813810E+21	4,137991E+22
-1859	1,928286E+22	1,928226E+22	1,406891E+21	1,406854E+21	3,856512E+22	2,813746E+21	4,137886E+22
-1858	1,928190E+22	1,928275E+22	1,407101E+21	1,406915E+21	3,856465E+22	2,814016E+21	4,137866E+22
-1857	1,928283E+22	1,928188E+22	1,406798E+21	1,407051E+21	3,856471E+22	2,813849E+21	4,137856E+22
-1856	1,928169E+22	1,928225E+22	1,407032E+21	1,406790E+21	3,856395E+22	2,813823E+21	4,137777E+22
-1855	1,928183E+22	1,928269E+22	1,406982E+21	1,407013E+21	3,856452E+22	2,813995E+21	4,137852E+22
-1854	1,928311E+22	1,928218E+22	1,406729E+21	1,406935E+21	3,856528E+22	2,813664E+21	4,137895E+22
-1853	1,928250E+22	1,928325E+22	1,406951E+21	1,406703E+21	3,856575E+22	2,813654E+21	4,137940E+22
-1852	1,928386E+22	1,928350E+22	1,406706E+21	1,406922E+21	3,856737E+22	2,813628E+21	4,138099E+22
-1851	1,928451E+22	1,928369E+22	1,406657E+21	1,406667E+21	3,856820E+22	2,813324E+21	4,138153E+22
-1850	1,928381E+22	1,928497E+22	1,406868E+21	1,406625E+21	3,856879E+22	2,813493E+21	4,138228E+22
-1849	1,928503E+22	1,928453E+22	1,406544E+21	1,406837E+21	3,856956E+22	2,813381E+21	4,138294E+22
-1848	1,928436E+22	1,928451E+22	1,406718E+21	1,406584E+21	3,856887E+22	2,813303E+21	4,138217E+22
-1847	1,928397E+22	1,928483E+22	1,406849E+21	1,406762E+21	3,856880E+22	2,813611E+21	4,138242E+22
-1846	1,928484E+22	1,928366E+22	1,406600E+21	1,406833E+21	3,856850E+22	2,813433E+21	4,138194E+22
-1845	1,928334E+22	1,928368E+22	1,406902E+21	1,406669E+21	3,856703E+22	2,813572E+21	4,138060E+22
-1844	1,928314E+22	1,928325E+22	1,406828E+21	1,407000E+21	3,856640E+22	2,813828E+21	4,138022E+22
-1843	1,928313E+22	1,928211E+22	1,406775E+21	1,406957E+21	3,856523E+22	2,813731E+21	4,137897E+22
-1842	1,928152E+22	1,928245E+22	1,407121E+21	1,406890E+21	3,856397E+22	2,814011E+21	4,137798E+22
-1841	1,928207E+22	1,928152E+22	1,406902E+21	1,407178E+21	3,856359E+22	2,814080E+21	4,137767E+22
-1840	1,928139E+22	1,928086E+22	1,407042E+21	1,406961E+21	3,856225E+22	2,814003E+21	4,137625E+22
-1839	1,928037E+22	1,928146E+22	1,407237E+21	1,407033E+21	3,856182E+22	2,814269E+21	4,137609E+22
-1838	1,928133E+22	1,928055E+22	1,406924E+21	1,407202E+21	3,856188E+22	2,814126E+21	4,137601E+22
-1837	1,928046E+22	1,928083E+22	1,407109E+21	1,406939E+21	3,856129E+22	2,814048E+21	4,137533E+22
-1836	1,928082E+22	1,928139E+22	1,407052E+21	1,407117E+21	3,856221E+22	2,814169E+21	4,137638E+22
-1835	1,928221E+22	1,928107E+22	1,406830E+21	1,407035E+21	3,856328E+22	2,813864E+21	4,137714E+22
-1834	1,928169E+22	1,928239E+22	1,407065E+21	1,406761E+21	3,856407E+22	2,813826E+21	4,137790E+22
-1833	1,928285E+22	1,928269E+22	1,406832E+21	1,407002E+21	3,856554E+22	2,813834E+21	4,137937E+22
-1832	1,928311E+22	1,928261E+22	1,406774E+21	1,406784E+21	3,856572E+22	2,813558E+21	4,137928E+22
-1831	1,928240E+22	1,928375E+22	1,406998E+21	1,406747E+21	3,856616E+22	2,813744E+21	4,137990E+22
-1830	1,928366E+22	1,928316E+22	1,406690E+21	1,406969E+21	3,856681E+22	2,813659E+21	4,138047E+22
-1829	1,928316E+22	1,928295E+22	1,406828E+21	1,406716E+21	3,856611E+22	2,813544E+21	4,137966E+22
-1828	1,928272E+22	1,928333E+22	1,406951E+21	1,406879E+21	3,856605E+22	2,813830E+21	4,137988E+22
-1827	1,928341E+22	1,928229E+22	1,406719E+21	1,406993E+21	3,856569E+22	2,813712E+21	4,137940E+22
-1826	1,928193E+22	1,928240E+22	1,407027E+21	1,406810E+21	3,856433E+22	2,813838E+21	4,137817E+22
-1825	1,928175E+22	1,928195E+22	1,406974E+21	1,407145E+21	3,856371E+22	2,814119E+21	4,137783E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1824	1,928160E+22	1,928062E+22	1,406929E+21	1,407096E+21	3,856221E+22	2,814025E+21	4,137624E+22
-1823	1,928008E+22	1,928098E+22	1,407291E+21	1,407003E+21	3,856106E+22	2,814294E+21	4,137536E+22
-1822	1,928060E+22	1,928009E+22	1,407077E+21	1,407308E+21	3,856069E+22	2,814385E+21	4,137507E+22
-1821	1,927990E+22	1,927935E+22	1,407155E+21	1,407112E+21	3,855925E+22	2,814267E+21	4,137352E+22
-1820	1,927889E+22	1,928000E+22	1,407324E+21	1,407173E+21	3,855889E+22	2,814498E+21	4,137339E+22
-1819	1,928000E+22	1,927923E+22	1,407028E+21	1,407350E+21	3,855923E+22	2,814377E+21	4,137361E+22
-1818	1,927946E+22	1,927970E+22	1,407217E+21	1,407019E+21	3,855916E+22	2,814236E+21	4,137340E+22
-1817	1,927999E+22	1,928042E+22	1,407178E+21	1,407181E+21	3,856041E+22	2,814359E+21	4,137477E+22
-1816	1,928109E+22	1,928005E+22	1,406951E+21	1,407107E+21	3,856114E+22	2,814058E+21	4,137520E+22
-1815	1,928042E+22	1,928143E+22	1,407185E+21	1,406853E+21	3,856185E+22	2,814038E+21	4,137589E+22
-1814	1,928150E+22	1,928164E+22	1,406958E+21	1,407134E+21	3,856313E+22	2,814092E+21	4,137723E+22
-1813	1,928185E+22	1,928128E+22	1,406859E+21	1,406931E+21	3,856313E+22	2,813790E+21	4,137692E+22
-1812	1,928123E+22	1,928236E+22	1,407085E+21	1,406868E+21	3,856359E+22	2,813953E+21	4,137755E+22
-1811	1,928251E+22	1,928181E+22	1,406808E+21	1,407097E+21	3,856432E+22	2,813905E+21	4,137822E+22
-1810	1,928205E+22	1,928171E+22	1,406953E+21	1,406821E+21	3,856376E+22	2,813774E+21	4,137754E+22
-1809	1,928144E+22	1,928211E+22	1,407084E+21	1,407009E+21	3,856355E+22	2,814094E+21	4,137765E+22
-1808	1,928177E+22	1,928086E+22	1,406858E+21	1,407151E+21	3,856262E+22	2,814009E+21	4,137663E+22
-1807	1,928037E+22	1,928095E+22	1,407183E+21	1,406957E+21	3,856132E+22	2,814141E+21	4,137546E+22
-1806	1,928028E+22	1,928046E+22	1,407152E+21	1,407285E+21	3,856073E+22	2,814437E+21	4,137517E+22
-1805	1,928023E+22	1,927901E+22	1,407069E+21	1,407230E+21	3,855924E+22	2,814300E+21	4,137354E+22
-1804	1,927865E+22	1,927947E+22	1,407413E+21	1,407124E+21	3,855812E+22	2,814537E+21	4,137266E+22
-1803	1,927903E+22	1,927873E+22	1,407203E+21	1,407456E+21	3,855776E+22	2,814659E+21	4,137242E+22
-1802	1,927852E+22	1,927809E+22	1,407269E+21	1,407243E+21	3,855661E+22	2,814512E+21	4,137113E+22
-1801	1,927767E+22	1,927877E+22	1,407443E+21	1,407289E+21	3,855645E+22	2,814732E+21	4,137118E+22
-1800	1,927873E+22	1,927796E+22	1,407154E+21	1,407455E+21	3,855668E+22	2,814609E+21	4,137129E+22
-1799	1,927841E+22	1,927855E+22	1,407347E+21	1,407102E+21	3,855696E+22	2,814448E+21	4,137141E+22
-1798	1,927887E+22	1,927935E+22	1,407314E+21	1,407283E+21	3,855823E+22	2,814597E+21	4,137282E+22
-1797	1,927988E+22	1,927890E+22	1,407032E+21	1,407237E+21	3,855878E+22	2,814269E+21	4,137305E+22
-1796	1,927918E+22	1,928021E+22	1,407256E+21	1,406982E+21	3,855939E+22	2,814238E+21	4,137363E+22
-1795	1,928027E+22	1,928044E+22	1,407054E+21	1,407266E+21	3,856072E+22	2,814320E+21	4,137504E+22
-1794	1,928087E+22	1,928012E+22	1,406966E+21	1,407023E+21	3,856099E+22	2,813989E+21	4,137498E+22
-1793	1,928027E+22	1,928120E+22	1,407210E+21	1,406954E+21	3,856146E+22	2,814164E+21	4,137563E+22
-1792	1,928115E+22	1,928055E+22	1,406942E+21	1,407209E+21	3,856170E+22	2,814152E+21	4,137585E+22
-1791	1,928060E+22	1,928044E+22	1,407091E+21	1,406951E+21	3,856104E+22	2,814043E+21	4,137508E+22
-1790	1,927992E+22	1,928075E+22	1,407239E+21	1,407170E+21	3,856067E+22	2,814409E+21	4,137508E+22
-1789	1,928029E+22	1,927930E+22	1,406983E+21	1,407317E+21	3,855959E+22	2,814300E+21	4,137389E+22
-1788	1,927898E+22	1,927936E+22	1,407315E+21	1,407098E+21	3,855834E+22	2,814413E+21	4,137276E+22
-1787	1,927887E+22	1,927899E+22	1,407307E+21	1,407420E+21	3,855786E+22	2,814727E+21	4,137259E+22
-1786	1,927883E+22	1,927765E+22	1,407217E+21	1,407352E+21	3,855648E+22	2,814569E+21	4,137105E+22
-1785	1,927714E+22	1,927813E+22	1,407549E+21	1,407261E+21	3,855528E+22	2,814810E+21	4,137009E+22
-1784	1,927731E+22	1,927724E+22	1,407337E+21	1,407605E+21	3,855454E+22	2,814942E+21	4,136949E+22
-1783	1,927706E+22	1,927666E+22	1,407405E+21	1,407367E+21	3,855372E+22	2,814773E+21	4,136849E+22
-1782	1,927648E+22	1,927745E+22	1,407584E+21	1,407406E+21	3,855392E+22	2,814990E+21	4,136891E+22
-1781	1,927767E+22	1,927665E+22	1,407257E+21	1,407561E+21	3,855432E+22	2,814818E+21	4,136913E+22
-1780	1,927735E+22	1,927741E+22	1,407427E+21	1,407204E+21	3,855475E+22	2,814630E+21	4,136938E+22
-1779	1,927769E+22	1,927837E+22	1,407402E+21	1,407400E+21	3,855606E+22	2,814802E+21	4,137086E+22
-1778	1,927881E+22	1,927794E+22	1,407116E+21	1,407341E+21	3,855675E+22	2,814457E+21	4,137121E+22
-1777	1,927818E+22	1,927918E+22	1,407355E+21	1,407079E+21	3,855736E+22	2,814434E+21	4,137179E+22
-1776	1,927905E+22	1,927925E+22	1,407180E+21	1,407358E+21	3,855830E+22	2,814538E+21	4,137283E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1775	1,927973E+22	1,927893E+22	1,407110E+21	1,407114E+21	3,855866E+22	2,814224E+21	4,137288E+22
-1774	1,927900E+22	1,927996E+22	1,407358E+21	1,407084E+21	3,855896E+22	2,814442E+21	4,137341E+22
-1773	1,927971E+22	1,927914E+22	1,407052E+21	1,407372E+21	3,855885E+22	2,814424E+21	4,137327E+22
-1772	1,927918E+22	1,927892E+22	1,407194E+21	1,407117E+21	3,855811E+22	2,814311E+21	4,137242E+22
-1771	1,927851E+22	1,927930E+22	1,407369E+21	1,407319E+21	3,855780E+22	2,814688E+21	4,137249E+22
-1770	1,927908E+22	1,927792E+22	1,407125E+21	1,407433E+21	3,855700E+22	2,814558E+21	4,137156E+22
-1769	1,927771E+22	1,927798E+22	1,407468E+21	1,407207E+21	3,855570E+22	2,814675E+21	4,137037E+22
-1768	1,927713E+22	1,927756E+22	1,407467E+21	1,407548E+21	3,855469E+22	2,815015E+21	4,136970E+22
-1767	1,927712E+22	1,927622E+22	1,407370E+21	1,407499E+21	3,855334E+22	2,814869E+21	4,136821E+22
-1766	1,927553E+22	1,927661E+22	1,407695E+21	1,407428E+21	3,855214E+22	2,815123E+21	4,136726E+22
-1765	1,927589E+22	1,927564E+22	1,407446E+21	1,407759E+21	3,855152E+22	2,815205E+21	4,136673E+22
-1764	1,927595E+22	1,927516E+22	1,407504E+21	1,407487E+21	3,855111E+22	2,814992E+21	4,136610E+22
-1763	1,927545E+22	1,927624E+22	1,407696E+21	1,407508E+21	3,855168E+22	2,815204E+21	4,136689E+22
-1762	1,927668E+22	1,927569E+22	1,407359E+21	1,407652E+21	3,855236E+22	2,815012E+21	4,136738E+22
-1761	1,927623E+22	1,927647E+22	1,407522E+21	1,407305E+21	3,855270E+22	2,814827E+21	4,136753E+22
-1760	1,927628E+22	1,927729E+22	1,407517E+21	1,407504E+21	3,855357E+22	2,815021E+21	4,136859E+22
-1759	1,927758E+22	1,927682E+22	1,407246E+21	1,407429E+21	3,855439E+22	2,814675E+21	4,136907E+22
-1758	1,927708E+22	1,927796E+22	1,407496E+21	1,407181E+21	3,855504E+22	2,814677E+21	4,136972E+22
-1757	1,927789E+22	1,927792E+22	1,407291E+21	1,407469E+21	3,855581E+22	2,814760E+21	4,137057E+22
-1756	1,927851E+22	1,927761E+22	1,407203E+21	1,407248E+21	3,855613E+22	2,814451E+21	4,137058E+22
-1755	1,927770E+22	1,927872E+22	1,407457E+21	1,407238E+21	3,855642E+22	2,814695E+21	4,137111E+22
-1754	1,927849E+22	1,927789E+22	1,407160E+21	1,407511E+21	3,855638E+22	2,814671E+21	4,137105E+22
-1753	1,927798E+22	1,927763E+22	1,407318E+21	1,407244E+21	3,855561E+22	2,814562E+21	4,137017E+22
-1752	1,927704E+22	1,927787E+22	1,407529E+21	1,407430E+21	3,855491E+22	2,814960E+21	4,136987E+22
-1751	1,927758E+22	1,927651E+22	1,407307E+21	1,407544E+21	3,855409E+22	2,814851E+21	4,136894E+22
-1750	1,927608E+22	1,927651E+22	1,407642E+21	1,407366E+21	3,855259E+22	2,815009E+21	4,136760E+22
-1749	1,927535E+22	1,927589E+22	1,407595E+21	1,407724E+21	3,855124E+22	2,815318E+21	4,136656E+22
-1748	1,927554E+22	1,927449E+22	1,407481E+21	1,407672E+21	3,855004E+22	2,815153E+21	4,136519E+22
-1747	1,927421E+22	1,927507E+22	1,407807E+21	1,407569E+21	3,854928E+22	2,815376E+21	4,136466E+22
-1746	1,927489E+22	1,927433E+22	1,407564E+21	1,407856E+21	3,854923E+22	2,815420E+21	4,136465E+22
-1745	1,927498E+22	1,927408E+22	1,407617E+21	1,407569E+21	3,854907E+22	2,815186E+21	4,136425E+22
-1744	1,927408E+22	1,927523E+22	1,407820E+21	1,407595E+21	3,854931E+22	2,815416E+21	4,136473E+22
-1743	1,927531E+22	1,927473E+22	1,407491E+21	1,407749E+21	3,855005E+22	2,815240E+21	4,136529E+22
-1742	1,927493E+22	1,927537E+22	1,407650E+21	1,407434E+21	3,855030E+22	2,815084E+21	4,136538E+22
-1741	1,927501E+22	1,927597E+22	1,407618E+21	1,407623E+21	3,855098E+22	2,815240E+21	4,136622E+22
-1740	1,927654E+22	1,927545E+22	1,407342E+21	1,407545E+21	3,855199E+22	2,814887E+21	4,136687E+22
-1739	1,927606E+22	1,927672E+22	1,407594E+21	1,407296E+21	3,855278E+22	2,814890E+21	4,136767E+22
-1738	1,927688E+22	1,927681E+22	1,407385E+21	1,407591E+21	3,855369E+22	2,814976E+21	4,136866E+22
-1737	1,927738E+22	1,927646E+22	1,407293E+21	1,407378E+21	3,855384E+22	2,814671E+21	4,136851E+22
-1736	1,927623E+22	1,927744E+22	1,407584E+21	1,407362E+21	3,855367E+22	2,814945E+21	4,136862E+22
-1735	1,927714E+22	1,927662E+22	1,407321E+21	1,407613E+21	3,855376E+22	2,814935E+21	4,136869E+22
-1734	1,927663E+22	1,927624E+22	1,407497E+21	1,407372E+21	3,855287E+22	2,814868E+21	4,136774E+22
-1733	1,927546E+22	1,927632E+22	1,407681E+21	1,407563E+21	3,855178E+22	2,815244E+21	4,136702E+22
-1732	1,927596E+22	1,927489E+22	1,407438E+21	1,407707E+21	3,855085E+22	2,815145E+21	4,136599E+22
-1731	1,927446E+22	1,927492E+22	1,407763E+21	1,407539E+21	3,854937E+22	2,815302E+21	4,136468E+22
-1730	1,927398E+22	1,927435E+22	1,407711E+21	1,407876E+21	3,854833E+22	2,815587E+21	4,136392E+22
-1729	1,927433E+22	1,927307E+22	1,407598E+21	1,407795E+21	3,854740E+22	2,815393E+21	4,136279E+22
-1728	1,927289E+22	1,927373E+22	1,407952E+21	1,407667E+21	3,854662E+22	2,815619E+21	4,136224E+22
-1727	1,927362E+22	1,927322E+22	1,407731E+21	1,407943E+21	3,854684E+22	2,815674E+21	4,136252E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1726	1,927360E+22	1,927301E+22	1,407767E+21	1,407703E+21	3,854660E+22	2,815470E+21	4,136207E+22
-1725	1,927256E+22	1,927394E+22	1,407927E+21	1,407731E+21	3,854650E+22	2,815659E+21	4,136216E+22
-1724	1,927399E+22	1,927335E+22	1,407585E+21	1,407882E+21	3,854733E+22	2,815467E+21	4,136280E+22
-1723	1,927384E+22	1,927407E+22	1,407740E+21	1,407549E+21	3,854792E+22	2,815289E+21	4,136321E+22
-1722	1,927418E+22	1,927478E+22	1,407711E+21	1,407710E+21	3,854895E+22	2,815421E+21	4,136437E+22
-1721	1,927564E+22	1,927442E+22	1,407429E+21	1,407632E+21	3,855006E+22	2,815060E+21	4,136512E+22
-1720	1,927483E+22	1,927569E+22	1,407694E+21	1,407401E+21	3,855052E+22	2,815096E+21	4,136561E+22
-1719	1,927560E+22	1,927578E+22	1,407517E+21	1,407697E+21	3,855139E+22	2,815214E+21	4,136660E+22
-1718	1,927609E+22	1,927531E+22	1,407435E+21	1,407518E+21	3,855140E+22	2,814953E+21	4,136636E+22
-1717	1,927484E+22	1,927600E+22	1,407718E+21	1,407484E+21	3,855084E+22	2,815202E+21	4,136604E+22
-1716	1,927581E+22	1,927507E+22	1,407466E+21	1,407741E+21	3,855088E+22	2,815207E+21	4,136609E+22
-1715	1,927520E+22	1,927475E+22	1,407639E+21	1,407519E+21	3,854995E+22	2,815158E+21	4,136511E+22
-1714	1,927398E+22	1,927483E+22	1,407807E+21	1,407724E+21	3,854881E+22	2,815531E+21	4,136434E+22
-1713	1,927443E+22	1,927337E+22	1,407554E+21	1,407869E+21	3,854780E+22	2,815423E+21	4,136323E+22
-1712	1,927283E+22	1,927333E+22	1,407897E+21	1,407684E+21	3,854616E+22	2,815581E+21	4,136174E+22
-1711	1,927259E+22	1,927293E+22	1,407879E+21	1,407982E+21	3,854553E+22	2,815861E+21	4,136139E+22
-1710	1,927304E+22	1,927176E+22	1,407768E+21	1,407920E+21	3,854480E+22	2,815689E+21	4,136048E+22
-1709	1,927142E+22	1,927239E+22	1,408087E+21	1,407789E+21	3,854381E+22	2,815876E+21	4,135968E+22
-1708	1,927220E+22	1,927190E+22	1,407848E+21	1,408085E+21	3,854410E+22	2,815933E+21	4,136003E+22
-1707	1,927221E+22	1,927173E+22	1,407865E+21	1,407847E+21	3,854394E+22	2,815712E+21	4,135966E+22
-1706	1,927143E+22	1,927269E+22	1,408013E+21	1,407853E+21	3,854412E+22	2,815866E+21	4,135999E+22
-1705	1,927302E+22	1,927215E+22	1,407666E+21	1,407970E+21	3,854517E+22	2,815636E+21	4,136081E+22
-1704	1,927277E+22	1,927290E+22	1,407850E+21	1,407625E+21	3,854568E+22	2,815474E+21	4,136115E+22
-1703	1,927313E+22	1,927382E+22	1,407848E+21	1,407786E+21	3,854695E+22	2,815634E+21	4,136259E+22
-1702	1,927443E+22	1,927345E+22	1,407561E+21	1,407763E+21	3,854789E+22	2,815323E+21	4,136321E+22
-1701	1,927342E+22	1,927444E+22	1,407803E+21	1,407535E+21	3,854786E+22	2,815338E+21	4,136320E+22
-1700	1,927433E+22	1,927439E+22	1,407635E+21	1,407827E+21	3,854872E+22	2,815461E+21	4,136418E+22
-1699	1,927487E+22	1,927393E+22	1,407559E+21	1,407641E+21	3,854880E+22	2,815200E+21	4,136400E+22
-1698	1,927369E+22	1,927462E+22	1,407847E+21	1,407601E+21	3,854831E+22	2,815449E+21	4,136376E+22
-1697	1,927445E+22	1,927374E+22	1,407586E+21	1,407863E+21	3,854820E+22	2,815449E+21	4,136365E+22
-1696	1,927352E+22	1,927333E+22	1,407776E+21	1,407671E+21	3,854685E+22	2,815447E+21	4,136230E+22
-1695	1,927236E+22	1,927341E+22	1,407968E+21	1,407868E+21	3,854577E+22	2,815836E+21	4,136160E+22
-1694	1,927289E+22	1,927190E+22	1,407717E+21	1,408040E+21	3,854479E+22	2,815756E+21	4,136055E+22
-1693	1,927133E+22	1,927168E+22	1,408039E+21	1,407825E+21	3,854302E+22	2,815864E+21	4,135888E+22
-1692	1,927128E+22	1,927135E+22	1,408027E+21	1,408114E+21	3,854262E+22	2,816141E+21	4,135876E+22
-1691	1,927168E+22	1,927042E+22	1,407901E+21	1,408062E+21	3,854210E+22	2,815963E+21	4,135806E+22
-1690	1,927009E+22	1,927109E+22	1,408195E+21	1,407931E+21	3,854118E+22	2,816126E+21	4,135731E+22
-1689	1,927084E+22	1,927063E+22	1,407942E+21	1,408203E+21	3,854148E+22	2,816145E+21	4,135762E+22
-1688	1,927085E+22	1,927046E+22	1,407974E+21	1,407950E+21	3,854131E+22	2,815924E+21	4,135724E+22
-1687	1,927033E+22	1,927154E+22	1,408151E+21	1,407918E+21	3,854187E+22	2,816070E+21	4,135794E+22
-1686	1,927197E+22	1,927113E+22	1,407805E+21	1,408065E+21	3,854310E+22	2,815870E+21	4,135897E+22
-1685	1,927156E+22	1,927176E+22	1,407952E+21	1,407728E+21	3,854332E+22	2,815680E+21	4,135900E+22
-1684	1,927195E+22	1,927264E+22	1,407948E+21	1,407915E+21	3,854459E+22	2,815863E+21	4,136045E+22
-1683	1,927323E+22	1,927231E+22	1,407655E+21	1,407902E+21	3,854554E+22	2,815557E+21	4,136110E+22
-1682	1,927236E+22	1,927321E+22	1,407896E+21	1,407666E+21	3,854557E+22	2,815562E+21	4,136113E+22
-1681	1,927325E+22	1,927314E+22	1,407739E+21	1,407923E+21	3,854639E+22	2,815662E+21	4,136205E+22
-1680	1,927356E+22	1,927263E+22	1,407698E+21	1,407752E+21	3,854619E+22	2,815450E+21	4,136164E+22
-1679	1,927227E+22	1,927338E+22	1,408014E+21	1,407721E+21	3,854565E+22	2,815735E+21	4,136138E+22
-1678	1,927283E+22	1,927241E+22	1,407745E+21	1,408039E+21	3,854524E+22	2,815784E+21	4,136102E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1677	1,927178E+22	1,927164E+22	1,407910E+21	1,407844E+21	3,854342E+22	2,815754E+21	4,135917E+22
-1676	1,927089E+22	1,927164E+22	1,408107E+21	1,408028E+21	3,854254E+22	2,816135E+21	4,135867E+22
-1675	1,927154E+22	1,927030E+22	1,407861E+21	1,408177E+21	3,854184E+22	2,816038E+21	4,135788E+22
-1674	1,927012E+22	1,927023E+22	1,408171E+21	1,407955E+21	3,854034E+22	2,816126E+21	4,135647E+22
-1673	1,926993E+22	1,927007E+22	1,408144E+21	1,408225E+21	3,854000E+22	2,816369E+21	4,135637E+22
-1672	1,927007E+22	1,926917E+22	1,408032E+21	1,408190E+21	3,853924E+22	2,816222E+21	4,135546E+22
-1671	1,926863E+22	1,926991E+22	1,408340E+21	1,408040E+21	3,853853E+22	2,816380E+21	4,135491E+22
-1670	1,926947E+22	1,926944E+22	1,408084E+21	1,408324E+21	3,853891E+22	2,816408E+21	4,135532E+22
-1669	1,926954E+22	1,926906E+22	1,408094E+21	1,408052E+21	3,853860E+22	2,816146E+21	4,135475E+22
-1668	1,926927E+22	1,927019E+22	1,408269E+21	1,408027E+21	3,853946E+22	2,816296E+21	4,135575E+22
-1667	1,927083E+22	1,927001E+22	1,407906E+21	1,408195E+21	3,854084E+22	2,816101E+21	4,135694E+22
-1666	1,927050E+22	1,927064E+22	1,408026E+21	1,407872E+21	3,854113E+22	2,815898E+21	4,135703E+22
-1665	1,927087E+22	1,927150E+22	1,408017E+21	1,408025E+21	3,854237E+22	2,816042E+21	4,135841E+22
-1664	1,927205E+22	1,927116E+22	1,407762E+21	1,408001E+21	3,854321E+22	2,815763E+21	4,135897E+22
-1663	1,927128E+22	1,927210E+22	1,408046E+21	1,407743E+21	3,854338E+22	2,815789E+21	4,135917E+22
-1662	1,927196E+22	1,927205E+22	1,407899E+21	1,408035E+21	3,854401E+22	2,815934E+21	4,135995E+22
-1661	1,927198E+22	1,927124E+22	1,407834E+21	1,407894E+21	3,854322E+22	2,815729E+21	4,135895E+22
-1660	1,927073E+22	1,927178E+22	1,408147E+21	1,407889E+21	3,854252E+22	2,816036E+21	4,135855E+22
-1659	1,927130E+22	1,927085E+22	1,407873E+21	1,408212E+21	3,854214E+22	2,816085E+21	4,135823E+22
-1658	1,927050E+22	1,927000E+22	1,408024E+21	1,408002E+21	3,854050E+22	2,816026E+21	4,135652E+22
-1657	1,926965E+22	1,927011E+22	1,408227E+21	1,408137E+21	3,853975E+22	2,816364E+21	4,135612E+22
-1656	1,927012E+22	1,926894E+22	1,408017E+21	1,408296E+21	3,853905E+22	2,816313E+21	4,135537E+22
-1655	1,926862E+22	1,926902E+22	1,408344E+21	1,408077E+21	3,853764E+22	2,816421E+21	4,135406E+22
-1654	1,926826E+22	1,926886E+22	1,408306E+21	1,408376E+21	3,853712E+22	2,816682E+21	4,135380E+22
-1653	1,926837E+22	1,926763E+22	1,408165E+21	1,408333E+21	3,853600E+22	2,816498E+21	4,135249E+22
-1652	1,926728E+22	1,926829E+22	1,408464E+21	1,408169E+21	3,853556E+22	2,816633E+21	4,135220E+22
-1651	1,926828E+22	1,926805E+22	1,408199E+21	1,408437E+21	3,853633E+22	2,816636E+21	4,135296E+22
-1650	1,926856E+22	1,926780E+22	1,408178E+21	1,408172E+21	3,853636E+22	2,816350E+21	4,135271E+22
-1649	1,926826E+22	1,926912E+22	1,408334E+21	1,408130E+21	3,853738E+22	2,816463E+21	4,135384E+22
-1648	1,926965E+22	1,926903E+22	1,408000E+21	1,408309E+21	3,853868E+22	2,816309E+21	4,135499E+22
-1647	1,926943E+22	1,926971E+22	1,408144E+21	1,407969E+21	3,853914E+22	2,816113E+21	4,135526E+22
-1646	1,926975E+22	1,927054E+22	1,408150E+21	1,408121E+21	3,854029E+22	2,816271E+21	4,135656E+22
-1645	1,927077E+22	1,926987E+22	1,407896E+21	1,408093E+21	3,854064E+22	2,815989E+21	4,135663E+22
-1644	1,927006E+22	1,927069E+22	1,408189E+21	1,407866E+21	3,854076E+22	2,816055E+21	4,135681E+22
-1643	1,927048E+22	1,927070E+22	1,408033E+21	1,408185E+21	3,854118E+22	2,816218E+21	4,135740E+22
-1642	1,927053E+22	1,926971E+22	1,407942E+21	1,408073E+21	3,854025E+22	2,816015E+21	4,135626E+22
-1641	1,926937E+22	1,927020E+22	1,408241E+21	1,408031E+21	3,853957E+22	2,816272E+21	4,135584E+22
-1640	1,926988E+22	1,926932E+22	1,408013E+21	1,408338E+21	3,853921E+22	2,816351E+21	4,135556E+22
-1639	1,926921E+22	1,926866E+22	1,408195E+21	1,408106E+21	3,853787E+22	2,816301E+21	4,135417E+22
-1638	1,926817E+22	1,926889E+22	1,408400E+21	1,408260E+21	3,853706E+22	2,816661E+21	4,135372E+22
-1637	1,926834E+22	1,926750E+22	1,408174E+21	1,408443E+21	3,853584E+22	2,816617E+21	4,135245E+22
-1636	1,926697E+22	1,926744E+22	1,408490E+21	1,408247E+21	3,853441E+22	2,816737E+21	4,135115E+22
-1635	1,926665E+22	1,926734E+22	1,408435E+21	1,408534E+21	3,853399E+22	2,816969E+21	4,135096E+22
-1634	1,926711E+22	1,926605E+22	1,408265E+21	1,408481E+21	3,853316E+22	2,816746E+21	4,134991E+22
-1633	1,926624E+22	1,926684E+22	1,408546E+21	1,408264E+21	3,853308E+22	2,816810E+21	4,134989E+22
-1632	1,926717E+22	1,926690E+22	1,408312E+21	1,408539E+21	3,853407E+22	2,816851E+21	4,135092E+22
-1631	1,926749E+22	1,926689E+22	1,408297E+21	1,408272E+21	3,853438E+22	2,816570E+21	4,135095E+22
-1630	1,926707E+22	1,926825E+22	1,408451E+21	1,408244E+21	3,853532E+22	2,816694E+21	4,135201E+22
-1629	1,926836E+22	1,926786E+22	1,408117E+21	1,408410E+21	3,853622E+22	2,816527E+21	4,135275E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1628	1,926835E+22	1,926840E+22	1,408269E+21	1,408066E+21	3,853675E+22	2,816336E+21	4,135308E+22
-1627	1,926856E+22	1,926933E+22	1,408281E+21	1,408215E+21	3,853789E+22	2,816496E+21	4,135439E+22
-1626	1,926960E+22	1,926856E+22	1,407998E+21	1,408222E+21	3,853817E+22	2,816221E+21	4,135439E+22
-1625	1,926877E+22	1,926934E+22	1,408271E+21	1,407995E+21	3,853811E+22	2,816265E+21	4,135437E+22
-1624	1,926903E+22	1,926937E+22	1,408148E+21	1,408334E+21	3,853840E+22	2,816483E+21	4,135488E+22
-1623	1,926922E+22	1,926841E+22	1,408081E+21	1,408207E+21	3,853762E+22	2,816288E+21	4,135391E+22
-1622	1,926803E+22	1,926889E+22	1,408391E+21	1,408158E+21	3,853692E+22	2,816548E+21	4,135347E+22
-1621	1,926839E+22	1,926778E+22	1,408179E+21	1,408460E+21	3,853617E+22	2,816639E+21	4,135281E+22
-1620	1,926774E+22	1,926710E+22	1,408363E+21	1,408261E+21	3,853484E+22	2,816624E+21	4,135146E+22
-1619	1,926644E+22	1,926744E+22	1,408554E+21	1,408429E+21	3,853388E+22	2,816983E+21	4,135086E+22
-1618	1,926672E+22	1,926585E+22	1,408294E+21	1,408630E+21	3,853257E+22	2,816924E+21	4,134950E+22
-1617	1,926555E+22	1,926576E+22	1,408586E+21	1,408384E+21	3,853131E+22	2,816970E+21	4,134828E+22
-1616	1,926531E+22	1,926585E+22	1,408562E+21	1,408643E+21	3,853115E+22	2,817205E+21	4,134836E+22
-1615	1,926600E+22	1,926485E+22	1,408407E+21	1,408567E+21	3,853085E+22	2,816974E+21	4,134782E+22
-1614	1,926508E+22	1,926586E+22	1,408673E+21	1,408362E+21	3,853094E+22	2,817034E+21	4,134798E+22
-1613	1,926579E+22	1,926578E+22	1,408438E+21	1,408648E+21	3,853157E+22	2,817086E+21	4,134865E+22
-1612	1,926628E+22	1,926573E+22	1,408415E+21	1,408399E+21	3,853201E+22	2,816814E+21	4,134883E+22
-1611	1,926583E+22	1,926713E+22	1,408565E+21	1,408350E+21	3,853295E+22	2,816915E+21	4,134987E+22
-1610	1,926728E+22	1,926659E+22	1,408213E+21	1,408517E+21	3,853386E+22	2,816730E+21	4,135059E+22
-1609	1,926734E+22	1,926710E+22	1,408353E+21	1,408156E+21	3,853445E+22	2,816509E+21	4,135096E+22
-1608	1,926730E+22	1,926816E+22	1,408398E+21	1,408330E+21	3,853546E+22	2,816728E+21	4,135219E+22
-1607	1,926830E+22	1,926747E+22	1,408125E+21	1,408357E+21	3,853577E+22	2,816482E+21	4,135226E+22
-1606	1,926741E+22	1,926814E+22	1,408390E+21	1,408140E+21	3,853555E+22	2,816530E+21	4,135208E+22
-1605	1,926756E+22	1,926784E+22	1,408286E+21	1,408466E+21	3,853540E+22	2,816752E+21	4,135215E+22
-1604	1,926795E+22	1,926684E+22	1,408231E+21	1,408339E+21	3,853479E+22	2,816570E+21	4,135136E+22
-1603	1,926661E+22	1,926746E+22	1,408549E+21	1,408285E+21	3,853408E+22	2,816834E+21	4,135091E+22
-1602	1,926692E+22	1,926629E+22	1,408316E+21	1,408619E+21	3,853321E+22	2,816935E+21	4,135015E+22
-1601	1,926620E+22	1,926556E+22	1,408476E+21	1,408417E+21	3,853176E+22	2,816893E+21	4,134865E+22
-1600	1,926479E+22	1,926596E+22	1,408692E+21	1,408585E+21	3,853075E+22	2,817277E+21	4,134803E+22
-1599	1,926528E+22	1,926445E+22	1,408442E+21	1,408760E+21	3,852974E+22	2,817202E+21	4,134694E+22
-1598	1,926422E+22	1,926440E+22	1,408727E+21	1,408493E+21	3,852862E+22	2,817219E+21	4,134584E+22
-1597	1,926393E+22	1,926439E+22	1,408716E+21	1,408744E+21	3,852832E+22	2,817460E+21	4,134578E+22
-1596	1,926472E+22	1,926354E+22	1,408550E+21	1,408693E+21	3,852826E+22	2,817243E+21	4,134550E+22
-1595	1,926366E+22	1,926473E+22	1,408795E+21	1,408499E+21	3,852839E+22	2,817294E+21	4,134568E+22
-1594	1,926455E+22	1,926449E+22	1,408531E+21	1,408792E+21	3,852904E+22	2,817323E+21	4,134637E+22
-1593	1,926520E+22	1,926442E+22	1,408485E+21	1,408498E+21	3,852962E+22	2,816984E+21	4,134660E+22
-1592	1,926474E+22	1,926597E+22	1,408669E+21	1,408433E+21	3,853072E+22	2,817102E+21	4,134782E+22
-1591	1,926626E+22	1,926560E+22	1,408335E+21	1,408593E+21	3,853185E+22	2,816928E+21	4,134878E+22
-1590	1,926616E+22	1,926614E+22	1,408465E+21	1,408262E+21	3,853230E+22	2,816727E+21	4,134903E+22
-1589	1,926586E+22	1,926690E+22	1,408525E+21	1,408460E+21	3,853276E+22	2,816985E+21	4,134975E+22
-1588	1,926699E+22	1,926610E+22	1,408254E+21	1,408511E+21	3,853309E+22	2,816764E+21	4,134985E+22
-1587	1,926606E+22	1,926677E+22	1,408517E+21	1,408281E+21	3,853283E+22	2,816798E+21	4,134963E+22
-1586	1,926635E+22	1,926629E+22	1,408410E+21	1,408601E+21	3,853264E+22	2,817011E+21	4,134966E+22
-1585	1,926673E+22	1,926532E+22	1,408350E+21	1,408461E+21	3,853205E+22	2,816811E+21	4,134886E+22
-1584	1,926509E+22	1,926611E+22	1,408700E+21	1,408428E+21	3,853120E+22	2,817128E+21	4,134833E+22
-1583	1,926530E+22	1,926500E+22	1,408479E+21	1,408769E+21	3,853030E+22	2,817249E+21	4,134755E+22
-1582	1,926456E+22	1,926415E+22	1,408629E+21	1,408570E+21	3,852872E+22	2,817199E+21	4,134592E+22
-1581	1,926309E+22	1,926425E+22	1,408857E+21	1,408713E+21	3,852735E+22	2,817570E+21	4,134492E+22
-1580	1,926385E+22	1,926282E+22	1,408605E+21	1,408886E+21	3,852668E+22	2,817491E+21	4,134417E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1579	1,926279E+22	1,926298E+22	1,408869E+21	1,408616E+21	3,852577E+22	2,817485E+21	4,134326E+22
-1578	1,926258E+22	1,926298E+22	1,408828E+21	1,408890E+21	3,852556E+22	2,817718E+21	4,134328E+22
-1577	1,926346E+22	1,926225E+22	1,408629E+21	1,408830E+21	3,852571E+22	2,817459E+21	4,134317E+22
-1576	1,926241E+22	1,926359E+22	1,408894E+21	1,408624E+21	3,852600E+22	2,817517E+21	4,134352E+22
-1575	1,926349E+22	1,926348E+22	1,408645E+21	1,408880E+21	3,852697E+22	2,817525E+21	4,134450E+22
-1574	1,926420E+22	1,926341E+22	1,408595E+21	1,408573E+21	3,852761E+22	2,817168E+21	4,134478E+22
-1573	1,926353E+22	1,926476E+22	1,408802E+21	1,408518E+21	3,852829E+22	2,817320E+21	4,134561E+22
-1572	1,926500E+22	1,926444E+22	1,408463E+21	1,408719E+21	3,852944E+22	2,817182E+21	4,134662E+22
-1571	1,926476E+22	1,926496E+22	1,408580E+21	1,408412E+21	3,852972E+22	2,816992E+21	4,134671E+22
-1570	1,926462E+22	1,926544E+22	1,408626E+21	1,408616E+21	3,853006E+22	2,817242E+21	4,134731E+22
-1569	1,926588E+22	1,926461E+22	1,408346E+21	1,408629E+21	3,853049E+22	2,816975E+21	4,134747E+22
-1568	1,926489E+22	1,926545E+22	1,408647E+21	1,408390E+21	3,853034E+22	2,817038E+21	4,134738E+22
-1567	1,926512E+22	1,926514E+22	1,408563E+21	1,408705E+21	3,853026E+22	2,817268E+21	4,134753E+22
-1566	1,926523E+22	1,926416E+22	1,408499E+21	1,408593E+21	3,852939E+22	2,817092E+21	4,134649E+22
-1565	1,926330E+22	1,926461E+22	1,408869E+21	1,408584E+21	3,852791E+22	2,817453E+21	4,134536E+22
-1564	1,926360E+22	1,926339E+22	1,408646E+21	1,408933E+21	3,852699E+22	2,817578E+21	4,134457E+22
-1563	1,926289E+22	1,926252E+22	1,408784E+21	1,408726E+21	3,852541E+22	2,817510E+21	4,134292E+22
-1562	1,926170E+22	1,926245E+22	1,408989E+21	1,408862E+21	3,852416E+22	2,817851E+21	4,134201E+22
-1561	1,926256E+22	1,926120E+22	1,408715E+21	1,409020E+21	3,852377E+22	2,817735E+21	4,134150E+22
-1560	1,926142E+22	1,926170E+22	1,408982E+21	1,408764E+21	3,852312E+22	2,817746E+21	4,134087E+22
-1559	1,926130E+22	1,926188E+22	1,408947E+21	1,409021E+21	3,852319E+22	2,817969E+21	4,134115E+22
-1558	1,926224E+22	1,926118E+22	1,408740E+21	1,408936E+21	3,852342E+22	2,817676E+21	4,134110E+22
-1557	1,926114E+22	1,926232E+22	1,409027E+21	1,408706E+21	3,852346E+22	2,817733E+21	4,134120E+22
-1556	1,926233E+22	1,926230E+22	1,408785E+21	1,408955E+21	3,852464E+22	2,817740E+21	4,134238E+22
-1555	1,926293E+22	1,926233E+22	1,408722E+21	1,408675E+21	3,852526E+22	2,817397E+21	4,134265E+22
-1554	1,926229E+22	1,926347E+22	1,408899E+21	1,408656E+21	3,852576E+22	2,817556E+21	4,134332E+22
-1553	1,926381E+22	1,926314E+22	1,408540E+21	1,408859E+21	3,852695E+22	2,817400E+21	4,134435E+22
-1552	1,926360E+22	1,926374E+22	1,408673E+21	1,408549E+21	3,852734E+22	2,817223E+21	4,134456E+22
-1551	1,926359E+22	1,926430E+22	1,408744E+21	1,408719E+21	3,852789E+22	2,817463E+21	4,134535E+22
-1550	1,926480E+22	1,926348E+22	1,408478E+21	1,408722E+21	3,852829E+22	2,817200E+21	4,134549E+22
-1549	1,926345E+22	1,926409E+22	1,408816E+21	1,408506E+21	3,852754E+22	2,817322E+21	4,134486E+22
-1548	1,926346E+22	1,926381E+22	1,408736E+21	1,408854E+21	3,852727E+22	2,817590E+21	4,134486E+22
-1547	1,926343E+22	1,926267E+22	1,408658E+21	1,408777E+21	3,852610E+22	2,817435E+21	4,134354E+22
-1546	1,926165E+22	1,926274E+22	1,409004E+21	1,408766E+21	3,852439E+22	2,817770E+21	4,134216E+22
-1545	1,926216E+22	1,926155E+22	1,408760E+21	1,409078E+21	3,852371E+22	2,817838E+21	4,134155E+22
-1544	1,926154E+22	1,926092E+22	1,408912E+21	1,408859E+21	3,852246E+22	2,817771E+21	4,134023E+22
-1543	1,926044E+22	1,926115E+22	1,409122E+21	1,408981E+21	3,852159E+22	2,818103E+21	4,133970E+22
-1542	1,926122E+22	1,926008E+22	1,408841E+21	1,409143E+21	3,852131E+22	2,817984E+21	4,133929E+22
-1541	1,925992E+22	1,926042E+22	1,409126E+21	1,408894E+21	3,852034E+22	2,818020E+21	4,133836E+22
-1540	1,925993E+22	1,926068E+22	1,409092E+21	1,409132E+21	3,852061E+22	2,818224E+21	4,133884E+22
-1539	1,926090E+22	1,925999E+22	1,408874E+21	1,409042E+21	3,852089E+22	2,817917E+21	4,133881E+22
-1538	1,926000E+22	1,926089E+22	1,409140E+21	1,408814E+21	3,852089E+22	2,817954E+21	4,133884E+22
-1537	1,926119E+22	1,926099E+22	1,408874E+21	1,409064E+21	3,852218E+22	2,817939E+21	4,134012E+22
-1536	1,926169E+22	1,926121E+22	1,408812E+21	1,408817E+21	3,852290E+22	2,817628E+21	4,134052E+22
-1535	1,926120E+22	1,926238E+22	1,408993E+21	1,408791E+21	3,852359E+22	2,817784E+21	4,134137E+22
-1534	1,926276E+22	1,926204E+22	1,408641E+21	1,408964E+21	3,852480E+22	2,817605E+21	4,134241E+22
-1533	1,926245E+22	1,926246E+22	1,408807E+21	1,408644E+21	3,852490E+22	2,817451E+21	4,134235E+22
-1532	1,926239E+22	1,926309E+22	1,408896E+21	1,408805E+21	3,852549E+22	2,817701E+21	4,134319E+22
-1531	1,926330E+22	1,926230E+22	1,408632E+21	1,408850E+21	3,852560E+22	2,817482E+21	4,134308E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1530	1,926189E+22	1,926255E+22	1,408950E+21	1,408680E+21	3,852444E+22	2,817630E+21	4,134207E+22
-1529	1,926187E+22	1,926216E+22	1,408852E+21	1,409023E+21	3,852403E+22	2,817875E+21	4,134191E+22
-1528	1,926188E+22	1,926108E+22	1,408784E+21	1,408948E+21	3,852296E+22	2,817732E+21	4,134069E+22
-1527	1,926037E+22	1,926116E+22	1,409137E+21	1,408899E+21	3,852152E+22	2,818036E+21	4,133956E+22
-1526	1,926089E+22	1,926010E+22	1,408901E+21	1,409187E+21	3,852098E+22	2,818087E+21	4,133907E+22
-1525	1,926003E+22	1,925946E+22	1,409075E+21	1,408988E+21	3,851949E+22	2,818063E+21	4,133755E+22
-1524	1,925885E+22	1,925988E+22	1,409283E+21	1,409119E+21	3,851873E+22	2,818402E+21	4,133713E+22
-1523	1,925958E+22	1,925882E+22	1,408999E+21	1,409298E+21	3,851840E+22	2,818297E+21	4,133670E+22
-1522	1,925851E+22	1,925886E+22	1,409253E+21	1,409037E+21	3,851736E+22	2,818290E+21	4,133565E+22
-1521	1,925868E+22	1,925921E+22	1,409197E+21	1,409233E+21	3,851789E+22	2,818431E+21	4,133632E+22
-1520	1,925971E+22	1,925874E+22	1,408979E+21	1,409147E+21	3,851845E+22	2,818126E+21	4,133658E+22
-1519	1,925892E+22	1,925979E+22	1,409235E+21	1,408921E+21	3,851871E+22	2,818156E+21	4,133686E+22
-1518	1,926007E+22	1,926001E+22	1,408963E+21	1,409175E+21	3,852008E+22	2,818138E+21	4,133822E+22
-1517	1,926046E+22	1,926003E+22	1,408925E+21	1,408939E+21	3,852049E+22	2,817863E+21	4,133835E+22
-1516	1,926006E+22	1,926129E+22	1,409116E+21	1,408891E+21	3,852136E+22	2,818007E+21	4,133936E+22
-1515	1,926161E+22	1,926092E+22	1,408777E+21	1,409067E+21	3,852253E+22	2,817843E+21	4,134037E+22
-1514	1,926130E+22	1,926102E+22	1,408932E+21	1,408764E+21	3,852232E+22	2,817696E+21	4,134002E+22
-1513	1,926106E+22	1,926172E+22	1,409009E+21	1,408932E+21	3,852279E+22	2,817941E+21	4,134073E+22
-1512	1,926177E+22	1,926097E+22	1,408751E+21	1,409017E+21	3,852274E+22	2,817769E+21	4,134051E+22
-1511	1,926048E+22	1,926108E+22	1,409075E+21	1,408843E+21	3,852156E+22	2,817919E+21	4,133948E+22
-1510	1,926049E+22	1,926067E+22	1,408983E+21	1,409147E+21	3,852115E+22	2,818130E+21	4,133928E+22
-1509	1,926041E+22	1,925943E+22	1,408948E+21	1,409069E+21	3,851984E+22	2,818017E+21	4,133786E+22
-1508	1,925890E+22	1,925971E+22	1,409304E+21	1,409010E+21	3,851862E+22	2,818314E+21	4,133693E+22
-1507	1,925925E+22	1,925877E+22	1,409070E+21	1,409335E+21	3,851802E+22	2,818405E+21	4,133642E+22
-1506	1,925843E+22	1,925789E+22	1,409215E+21	1,409167E+21	3,851632E+22	2,818382E+21	4,133470E+22
-1505	1,925733E+22	1,925835E+22	1,409399E+21	1,409274E+21	3,851568E+22	2,818673E+21	4,133436E+22
-1504	1,925816E+22	1,925744E+22	1,409118E+21	1,409442E+21	3,851560E+22	2,818560E+21	4,133416E+22
-1503	1,925741E+22	1,925750E+22	1,409366E+21	1,409149E+21	3,851491E+22	2,818515E+21	4,133342E+22
-1502	1,925758E+22	1,925799E+22	1,409308E+21	1,409310E+21	3,851557E+22	2,818619E+21	4,133418E+22
-1501	1,925838E+22	1,925754E+22	1,409105E+21	1,409260E+21	3,851593E+22	2,818365E+21	4,133429E+22
-1500	1,925762E+22	1,925871E+22	1,409350E+21	1,409039E+21	3,851633E+22	2,818389E+21	4,133472E+22
-1499	1,925877E+22	1,925890E+22	1,409089E+21	1,409306E+21	3,851767E+22	2,818395E+21	4,133607E+22
-1498	1,925938E+22	1,925865E+22	1,409028E+21	1,409059E+21	3,851802E+22	2,818087E+21	4,133611E+22
-1497	1,925906E+22	1,925997E+22	1,409212E+21	1,408977E+21	3,851903E+22	2,818189E+21	4,133722E+22
-1496	1,926046E+22	1,925979E+22	1,408891E+21	1,409167E+21	3,852025E+22	2,818058E+21	4,133830E+22
-1495	1,926012E+22	1,925987E+22	1,409045E+21	1,408891E+21	3,851999E+22	2,817936E+21	4,133793E+22
-1494	1,925967E+22	1,926053E+22	1,409127E+21	1,409056E+21	3,852020E+22	2,818183E+21	4,133838E+22
-1493	1,926018E+22	1,925953E+22	1,408901E+21	1,409168E+21	3,851972E+22	2,818070E+21	4,133779E+22
-1492	1,925897E+22	1,925962E+22	1,409230E+21	1,408973E+21	3,851859E+22	2,818203E+21	4,133679E+22
-1491	1,925898E+22	1,925915E+22	1,409157E+21	1,409284E+21	3,851813E+22	2,818440E+21	4,133657E+22
-1490	1,925894E+22	1,925767E+22	1,409102E+21	1,409226E+21	3,851662E+22	2,818328E+21	4,133495E+22
-1489	1,925735E+22	1,925812E+22	1,409431E+21	1,409174E+21	3,851547E+22	2,818605E+21	4,133407E+22
-1488	1,925762E+22	1,925733E+22	1,409204E+21	1,409519E+21	3,851495E+22	2,818723E+21	4,133367E+22
-1487	1,925704E+22	1,925641E+22	1,409339E+21	1,409332E+21	3,851345E+22	2,818671E+21	4,133212E+22
-1486	1,925605E+22	1,925698E+22	1,409519E+21	1,409373E+21	3,851303E+22	2,818892E+21	4,133192E+22
-1485	1,925681E+22	1,925602E+22	1,409266E+21	1,409533E+21	3,851283E+22	2,818798E+21	4,133163E+22
-1484	1,925606E+22	1,925631E+22	1,409507E+21	1,409230E+21	3,851238E+22	2,818736E+21	4,133111E+22
-1483	1,925616E+22	1,925689E+22	1,409446E+21	1,409431E+21	3,851305E+22	2,818877E+21	4,133193E+22
-1482	1,925707E+22	1,925618E+22	1,409212E+21	1,409407E+21	3,851325E+22	2,818619E+21	4,133187E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1481	1,925648E+22	1,925743E+22	1,409429E+21	1,409167E+21	3,851392E+22	2,818595E+21	4,133251E+22
-1480	1,925773E+22	1,925777E+22	1,409184E+21	1,409418E+21	3,851550E+22	2,818602E+21	4,133410E+22
-1479	1,925855E+22	1,925750E+22	1,409125E+21	1,409155E+21	3,851605E+22	2,818279E+21	4,133433E+22
-1478	1,925806E+22	1,925892E+22	1,409319E+21	1,409047E+21	3,851698E+22	2,818366E+21	4,133535E+22
-1477	1,925902E+22	1,925865E+22	1,409031E+21	1,409286E+21	3,851768E+22	2,818317E+21	4,133600E+22
-1476	1,925858E+22	1,925869E+22	1,409190E+21	1,409031E+21	3,851727E+22	2,818220E+21	4,133549E+22
-1475	1,925809E+22	1,925915E+22	1,409288E+21	1,409214E+21	3,851723E+22	2,818502E+21	4,133573E+22
-1474	1,925873E+22	1,925777E+22	1,409043E+21	1,409326E+21	3,851650E+22	2,818369E+21	4,133487E+22
-1473	1,925763E+22	1,925790E+22	1,409350E+21	1,409110E+21	3,851553E+22	2,818460E+21	4,133399E+22
-1472	1,925754E+22	1,925765E+22	1,409291E+21	1,409433E+21	3,851519E+22	2,818724E+21	4,133391E+22
-1471	1,925758E+22	1,925624E+22	1,409226E+21	1,409396E+21	3,851382E+22	2,818622E+21	4,133244E+22
-1470	1,925589E+22	1,925674E+22	1,409557E+21	1,409310E+21	3,851263E+22	2,818867E+21	4,133150E+22
-1469	1,925600E+22	1,925590E+22	1,409368E+21	1,409660E+21	3,851190E+22	2,819027E+21	4,133093E+22
-1468	1,925555E+22	1,925506E+22	1,409501E+21	1,409440E+21	3,851061E+22	2,818941E+21	4,132955E+22
-1467	1,925458E+22	1,925559E+22	1,409690E+21	1,409479E+21	3,851017E+22	2,819170E+21	4,132934E+22
-1466	1,925536E+22	1,925447E+22	1,409404E+21	1,409662E+21	3,850984E+22	2,819065E+21	4,132890E+22
-1465	1,925466E+22	1,925490E+22	1,409602E+21	1,409370E+21	3,850956E+22	2,818972E+21	4,132853E+22
-1464	1,925482E+22	1,925564E+22	1,409548E+21	1,409582E+21	3,851046E+22	2,819130E+21	4,132959E+22
-1463	1,925607E+22	1,925495E+22	1,409299E+21	1,409541E+21	3,851103E+22	2,818840E+21	4,132987E+22
-1462	1,925560E+22	1,925632E+22	1,409514E+21	1,409235E+21	3,851192E+22	2,818749E+21	4,133067E+22
-1461	1,925665E+22	1,925670E+22	1,409314E+21	1,409489E+21	3,851335E+22	2,818803E+21	4,133215E+22
-1460	1,925733E+22	1,925658E+22	1,409256E+21	1,409235E+21	3,851391E+22	2,818491E+21	4,133240E+22
-1459	1,925661E+22	1,925789E+22	1,409465E+21	1,409178E+21	3,851451E+22	2,818644E+21	4,133315E+22
-1458	1,925751E+22	1,925720E+22	1,409158E+21	1,409449E+21	3,851471E+22	2,818607E+21	4,133332E+22
-1457	1,925718E+22	1,925713E+22	1,409296E+21	1,409192E+21	3,851432E+22	2,818488E+21	4,133281E+22
-1456	1,925678E+22	1,925761E+22	1,409413E+21	1,409363E+21	3,851438E+22	2,818776E+21	4,133316E+22
-1455	1,925761E+22	1,925620E+22	1,409167E+21	1,409467E+21	3,851381E+22	2,818634E+21	4,133245E+22
-1454	1,925638E+22	1,925650E+22	1,409469E+21	1,409224E+21	3,851288E+22	2,818694E+21	4,133157E+22
-1453	1,925592E+22	1,925627E+22	1,409450E+21	1,409582E+21	3,851219E+22	2,819032E+21	4,133122E+22
-1452	1,925587E+22	1,925493E+22	1,409396E+21	1,409542E+21	3,851080E+22	2,818938E+21	4,132974E+22
-1451	1,925423E+22	1,925531E+22	1,409740E+21	1,409459E+21	3,850954E+22	2,819199E+21	4,132874E+22
-1450	1,925442E+22	1,925417E+22	1,409531E+21	1,409790E+21	3,850859E+22	2,819321E+21	4,132791E+22
-1449	1,925410E+22	1,925343E+22	1,409631E+21	1,409562E+21	3,850753E+22	2,819193E+21	4,132672E+22
-1448	1,925311E+22	1,925417E+22	1,409813E+21	1,409616E+21	3,850728E+22	2,819429E+21	4,132671E+22
-1447	1,925409E+22	1,925313E+22	1,409498E+21	1,409819E+21	3,850722E+22	2,819317E+21	4,132653E+22
-1446	1,925351E+22	1,925370E+22	1,409676E+21	1,409489E+21	3,850721E+22	2,819166E+21	4,132637E+22
-1445	1,925364E+22	1,925449E+22	1,409662E+21	1,409696E+21	3,850814E+22	2,819359E+21	4,132750E+22
-1444	1,925502E+22	1,925399E+22	1,409426E+21	1,409615E+21	3,850901E+22	2,819041E+21	4,132805E+22
-1443	1,925453E+22	1,925531E+22	1,409660E+21	1,409320E+21	3,850984E+22	2,818981E+21	4,132882E+22
-1442	1,925537E+22	1,925546E+22	1,409443E+21	1,409600E+21	3,851082E+22	2,819043E+21	4,132987E+22
-1441	1,925594E+22	1,925530E+22	1,409355E+21	1,409383E+21	3,851124E+22	2,818738E+21	4,132998E+22
-1440	1,925518E+22	1,925654E+22	1,409578E+21	1,409343E+21	3,851172E+22	2,818921E+21	4,133064E+22
-1439	1,925635E+22	1,925573E+22	1,409262E+21	1,409605E+21	3,851208E+22	2,818866E+21	4,133095E+22
-1438	1,925611E+22	1,925567E+22	1,409397E+21	1,409286E+21	3,851178E+22	2,818683E+21	4,133047E+22
-1437	1,925547E+22	1,925621E+22	1,409564E+21	1,409467E+21	3,851168E+22	2,819030E+21	4,133071E+22
-1436	1,925615E+22	1,925502E+22	1,409328E+21	1,409578E+21	3,851117E+22	2,818906E+21	4,133007E+22
-1435	1,925472E+22	1,925522E+22	1,409647E+21	1,409381E+21	3,850994E+22	2,819029E+21	4,132897E+22
-1434	1,925415E+22	1,925467E+22	1,409616E+21	1,409751E+21	3,850881E+22	2,819367E+21	4,132818E+22
-1433	1,925423E+22	1,925327E+22	1,409538E+21	1,409708E+21	3,850750E+22	2,819247E+21	4,132674E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1432	1,925268E+22	1,925365E+22	1,409890E+21	1,409608E+21	3,850633E+22	2,819498E+21	4,132583E+22
-1431	1,925310E+22	1,925253E+22	1,409659E+21	1,409933E+21	3,850563E+22	2,819592E+21	4,132522E+22
-1430	1,925275E+22	1,925198E+22	1,409731E+21	1,409682E+21	3,850473E+22	2,819413E+21	4,132415E+22
-1429	1,925162E+22	1,925284E+22	1,409937E+21	1,409764E+21	3,850446E+22	2,819701E+21	4,132416E+22
-1428	1,925273E+22	1,925201E+22	1,409628E+21	1,409944E+21	3,850474E+22	2,819572E+21	4,132431E+22
-1427	1,925235E+22	1,925258E+22	1,409814E+21	1,409604E+21	3,850493E+22	2,819418E+21	4,132434E+22
-1426	1,925252E+22	1,925319E+22	1,409789E+21	1,409784E+21	3,850572E+22	2,819573E+21	4,132529E+22
-1425	1,925391E+22	1,925281E+22	1,409531E+21	1,409705E+21	3,850672E+22	2,819236E+21	4,132596E+22
-1424	1,925328E+22	1,925421E+22	1,409770E+21	1,409440E+21	3,850749E+22	2,819210E+21	4,132670E+22
-1423	1,925415E+22	1,925424E+22	1,409536E+21	1,409740E+21	3,850840E+22	2,819276E+21	4,132767E+22
-1422	1,925475E+22	1,925407E+22	1,409436E+21	1,409502E+21	3,850882E+22	2,818938E+21	4,132776E+22
-1421	1,925394E+22	1,925522E+22	1,409700E+21	1,409467E+21	3,850916E+22	2,819168E+21	4,132833E+22
-1420	1,925513E+22	1,925451E+22	1,409408E+21	1,409697E+21	3,850964E+22	2,819106E+21	4,132875E+22
-1419	1,925486E+22	1,925441E+22	1,409560E+21	1,409404E+21	3,850926E+22	2,818964E+21	4,132823E+22
-1418	1,925391E+22	1,925472E+22	1,409716E+21	1,409610E+21	3,850863E+22	2,819326E+21	4,132796E+22
-1417	1,925446E+22	1,925352E+22	1,409467E+21	1,409756E+21	3,850798E+22	2,819223E+21	4,132720E+22
-1416	1,925304E+22	1,925362E+22	1,409800E+21	1,409572E+21	3,850666E+22	2,819372E+21	4,132603E+22
-1415	1,925269E+22	1,925295E+22	1,409751E+21	1,409917E+21	3,850564E+22	2,819668E+21	4,132531E+22
-1414	1,925287E+22	1,925163E+22	1,409657E+21	1,409824E+21	3,850450E+22	2,819481E+21	4,132398E+22
-1413	1,925119E+22	1,925211E+22	1,410036E+21	1,409734E+21	3,850330E+22	2,819770E+21	4,132307E+22
-1412	1,925156E+22	1,925127E+22	1,409806E+21	1,410053E+21	3,850283E+22	2,819859E+21	4,132269E+22
-1411	1,925128E+22	1,925072E+22	1,409877E+21	1,409831E+21	3,850200E+22	2,819708E+21	4,132171E+22
-1410	1,925018E+22	1,925141E+22	1,410067E+21	1,409904E+21	3,850159E+22	2,819972E+21	4,132157E+22
-1409	1,925151E+22	1,925070E+22	1,409745E+21	1,410066E+21	3,850220E+22	2,819811E+21	4,132202E+22
-1408	1,925124E+22	1,925133E+22	1,409938E+21	1,409709E+21	3,850257E+22	2,819647E+21	4,132222E+22
-1407	1,925153E+22	1,925199E+22	1,409893E+21	1,409883E+21	3,850352E+22	2,819776E+21	4,132329E+22
-1406	1,925276E+22	1,925171E+22	1,409609E+21	1,409795E+21	3,850447E+22	2,819403E+21	4,132387E+22
-1405	1,925189E+22	1,925305E+22	1,409882E+21	1,409571E+21	3,850495E+22	2,819453E+21	4,132440E+22
-1404	1,925282E+22	1,925316E+22	1,409664E+21	1,409852E+21	3,850597E+22	2,819516E+21	4,132549E+22
-1403	1,925356E+22	1,925283E+22	1,409577E+21	1,409621E+21	3,850639E+22	2,819198E+21	4,132559E+22
-1402	1,925269E+22	1,925374E+22	1,409835E+21	1,409576E+21	3,850643E+22	2,819411E+21	4,132584E+22
-1401	1,925383E+22	1,925312E+22	1,409536E+21	1,409823E+21	3,850695E+22	2,819359E+21	4,132631E+22
-1400	1,925338E+22	1,925304E+22	1,409693E+21	1,409568E+21	3,850641E+22	2,819260E+21	4,132567E+22
-1399	1,925246E+22	1,925323E+22	1,409833E+21	1,409786E+21	3,850569E+22	2,819620E+21	4,132531E+22
-1398	1,925300E+22	1,925200E+22	1,409577E+21	1,409906E+21	3,850501E+22	2,819482E+21	4,132449E+22
-1397	1,925152E+22	1,925206E+22	1,409954E+21	1,409723E+21	3,850358E+22	2,819677E+21	4,132326E+22
-1396	1,925121E+22	1,925152E+22	1,409923E+21	1,410022E+21	3,850273E+22	2,819945E+21	4,132267E+22
-1395	1,925140E+22	1,925019E+22	1,409833E+21	1,409958E+21	3,850158E+22	2,819790E+21	4,132137E+22
-1394	1,924951E+22	1,925051E+22	1,410181E+21	1,409886E+21	3,850002E+22	2,820067E+21	4,132009E+22
-1393	1,924994E+22	1,924976E+22	1,409938E+21	1,410220E+21	3,849970E+22	2,820158E+21	4,131986E+22
-1392	1,924987E+22	1,924928E+22	1,410008E+21	1,409992E+21	3,849915E+22	2,820000E+21	4,131915E+22
-1391	1,924910E+22	1,924997E+22	1,410175E+21	1,410022E+21	3,849907E+22	2,820197E+21	4,131927E+22
-1390	1,925049E+22	1,924947E+22	1,409838E+21	1,410133E+21	3,849997E+22	2,819971E+21	4,131994E+22
-1389	1,925006E+22	1,925024E+22	1,410053E+21	1,409800E+21	3,850030E+22	2,819853E+21	4,132015E+22
-1388	1,925018E+22	1,925108E+22	1,410015E+21	1,409968E+21	3,850126E+22	2,819983E+21	4,132124E+22
-1387	1,925143E+22	1,925068E+22	1,409733E+21	1,409925E+21	3,850212E+22	2,819658E+21	4,132177E+22
-1386	1,925055E+22	1,925168E+22	1,409994E+21	1,409705E+21	3,850223E+22	2,819699E+21	4,132193E+22
-1385	1,925163E+22	1,925179E+22	1,409778E+21	1,409977E+21	3,850341E+22	2,819755E+21	4,132317E+22
-1384	1,925245E+22	1,925145E+22	1,409704E+21	1,409748E+21	3,850390E+22	2,819452E+21	4,132335E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1383	1,925160E+22	1,925233E+22	1,409939E+21	1,409709E+21	3,850393E+22	2,819648E+21	4,132358E+22
-1382	1,925252E+22	1,925182E+22	1,409631E+21	1,409953E+21	3,850434E+22	2,819584E+21	4,132392E+22
-1381	1,925184E+22	1,925167E+22	1,409828E+21	1,409737E+21	3,850351E+22	2,819565E+21	4,132308E+22
-1380	1,925092E+22	1,925191E+22	1,409996E+21	1,409914E+21	3,850282E+22	2,819910E+21	4,132273E+22
-1379	1,925154E+22	1,925054E+22	1,409757E+21	1,410035E+21	3,850209E+22	2,819792E+21	4,132188E+22
-1378	1,924993E+22	1,925033E+22	1,410125E+21	1,409847E+21	3,850026E+22	2,819972E+21	4,132024E+22
-1377	1,924957E+22	1,924991E+22	1,410080E+21	1,410162E+21	3,849948E+22	2,820242E+21	4,131972E+22
-1376	1,924970E+22	1,924862E+22	1,409984E+21	1,410130E+21	3,849832E+22	2,820114E+21	4,131843E+22
-1375	1,924805E+22	1,924892E+22	1,410292E+21	1,410061E+21	3,849696E+22	2,820353E+21	4,131732E+22
-1374	1,924864E+22	1,924831E+22	1,410036E+21	1,410350E+21	3,849695E+22	2,820385E+21	4,131734E+22
-1373	1,924862E+22	1,924796E+22	1,410135E+21	1,410113E+21	3,849658E+22	2,820248E+21	4,131683E+22
-1372	1,924794E+22	1,924891E+22	1,410315E+21	1,410088E+21	3,849685E+22	2,820403E+21	4,131725E+22
-1371	1,924928E+22	1,924844E+22	1,409980E+21	1,410226E+21	3,849772E+22	2,820206E+21	4,131792E+22
-1370	1,924858E+22	1,924899E+22	1,410171E+21	1,409926E+21	3,849756E+22	2,820097E+21	4,131766E+22
-1369	1,924875E+22	1,924980E+22	1,410126E+21	1,410109E+21	3,849855E+22	2,820235E+21	4,131879E+22
-1368	1,925017E+22	1,924934E+22	1,409848E+21	1,410071E+21	3,849951E+22	2,819920E+21	4,131943E+22
-1367	1,924961E+22	1,925025E+22	1,410077E+21	1,409826E+21	3,849987E+22	2,819903E+21	4,131977E+22
-1366	1,925070E+22	1,925051E+22	1,409861E+21	1,410060E+21	3,850121E+22	2,819921E+21	4,132113E+22
-1365	1,925129E+22	1,925031E+22	1,409819E+21	1,409866E+21	3,850160E+22	2,819684E+21	4,132128E+22
-1364	1,925025E+22	1,925131E+22	1,410075E+21	1,409815E+21	3,850157E+22	2,819890E+21	4,132146E+22
-1363	1,925107E+22	1,925066E+22	1,409790E+21	1,410092E+21	3,850173E+22	2,819882E+21	4,132161E+22
-1362	1,925022E+22	1,925013E+22	1,409988E+21	1,409888E+21	3,850036E+22	2,819876E+21	4,132023E+22
-1361	1,924933E+22	1,925030E+22	1,410164E+21	1,410051E+21	3,849963E+22	2,820215E+21	4,131985E+22
-1360	1,925000E+22	1,924887E+22	1,409931E+21	1,410189E+21	3,849887E+22	2,820120E+21	4,131899E+22
-1359	1,924844E+22	1,924857E+22	1,410251E+21	1,410011E+21	3,849701E+22	2,820262E+21	4,131727E+22
-1358	1,924797E+22	1,924829E+22	1,410188E+21	1,410318E+21	3,849626E+22	2,820507E+21	4,131677E+22
-1357	1,924812E+22	1,924710E+22	1,410114E+21	1,410310E+21	3,849522E+22	2,820423E+21	4,131565E+22
-1356	1,924667E+22	1,924760E+22	1,410433E+21	1,410178E+21	3,849426E+22	2,820611E+21	4,131487E+22
-1355	1,924743E+22	1,924708E+22	1,410192E+21	1,410451E+21	3,849451E+22	2,820643E+21	4,131516E+22
-1354	1,924726E+22	1,924662E+22	1,410277E+21	1,410209E+21	3,849388E+22	2,820486E+21	4,131437E+22
-1353	1,924651E+22	1,924769E+22	1,410444E+21	1,410193E+21	3,849421E+22	2,820637E+21	4,131485E+22
-1352	1,924781E+22	1,924721E+22	1,410103E+21	1,410367E+21	3,849503E+22	2,820470E+21	4,131550E+22
-1351	1,924735E+22	1,924759E+22	1,410250E+21	1,410075E+21	3,849494E+22	2,820325E+21	4,131527E+22
-1350	1,924769E+22	1,924849E+22	1,410200E+21	1,410220E+21	3,849618E+22	2,820420E+21	4,131660E+22
-1349	1,924918E+22	1,924814E+22	1,409955E+21	1,410183E+21	3,849731E+22	2,820138E+21	4,131745E+22
-1348	1,924867E+22	1,924924E+22	1,410200E+21	1,409897E+21	3,849791E+22	2,820097E+21	4,131801E+22
-1347	1,924957E+22	1,924953E+22	1,410002E+21	1,410160E+21	3,849910E+22	2,820162E+21	4,131926E+22
-1346	1,924974E+22	1,924906E+22	1,409957E+21	1,410007E+21	3,849880E+22	2,819963E+21	4,131876E+22
-1345	1,924866E+22	1,924994E+22	1,410228E+21	1,409966E+21	3,849859E+22	2,820194E+21	4,131879E+22
-1344	1,924949E+22	1,924910E+22	1,409959E+21	1,410247E+21	3,849859E+22	2,820206E+21	4,131880E+22
-1343	1,924883E+22	1,924838E+22	1,410122E+21	1,410038E+21	3,849722E+22	2,820161E+21	4,131738E+22
-1342	1,924792E+22	1,924861E+22	1,410284E+21	1,410178E+21	3,849653E+22	2,820462E+21	4,131699E+22
-1341	1,924838E+22	1,924733E+22	1,410068E+21	1,410355E+21	3,849571E+22	2,820422E+21	4,131613E+22
-1340	1,924687E+22	1,924719E+22	1,410385E+21	1,410158E+21	3,849406E+22	2,820543E+21	4,131460E+22
-1339	1,924651E+22	1,924691E+22	1,410339E+21	1,410470E+21	3,849342E+22	2,820809E+21	4,131423E+22
-1338	1,924659E+22	1,924560E+22	1,410266E+21	1,410451E+21	3,849218E+22	2,820717E+21	4,131290E+22
-1337	1,924529E+22	1,924618E+22	1,410591E+21	1,410288E+21	3,849147E+22	2,820879E+21	4,131235E+22
-1336	1,924606E+22	1,924572E+22	1,410357E+21	1,410566E+21	3,849178E+22	2,820923E+21	4,131270E+22
-1335	1,924591E+22	1,924522E+22	1,410381E+21	1,410346E+21	3,849113E+22	2,820728E+21	4,131186E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1334	1,924512E+22	1,924635E+22	1,410525E+21	1,410324E+21	3,849147E+22	2,820849E+21	4,131232E+22
-1333	1,924648E+22	1,924595E+22	1,410204E+21	1,410514E+21	3,849243E+22	2,820718E+21	4,131315E+22
-1332	1,924632E+22	1,924646E+22	1,410354E+21	1,410165E+21	3,849278E+22	2,820519E+21	4,131330E+22
-1331	1,924681E+22	1,924743E+22	1,410328E+21	1,410297E+21	3,849424E+22	2,820625E+21	4,131487E+22
-1330	1,924802E+22	1,924700E+22	1,410085E+21	1,410272E+21	3,849502E+22	2,820357E+21	4,131538E+22
-1329	1,924734E+22	1,924817E+22	1,410332E+21	1,410006E+21	3,849551E+22	2,820338E+21	4,131585E+22
-1328	1,924809E+22	1,924835E+22	1,410147E+21	1,410308E+21	3,849643E+22	2,820456E+21	4,131689E+22
-1327	1,924834E+22	1,924757E+22	1,410064E+21	1,410174E+21	3,849590E+22	2,820238E+21	4,131614E+22
-1326	1,924727E+22	1,924837E+22	1,410338E+21	1,410105E+21	3,849564E+22	2,820443E+21	4,131608E+22
-1325	1,924811E+22	1,924756E+22	1,410097E+21	1,410393E+21	3,849567E+22	2,820490E+21	4,131616E+22
-1324	1,924750E+22	1,924692E+22	1,410267E+21	1,410158E+21	3,849442E+22	2,820425E+21	4,131485E+22
-1323	1,924645E+22	1,924720E+22	1,410437E+21	1,410321E+21	3,849365E+22	2,820758E+21	4,131441E+22
-1322	1,924661E+22	1,924575E+22	1,410221E+21	1,410527E+21	3,849236E+22	2,820748E+21	4,131311E+22
-1321	1,924522E+22	1,924563E+22	1,410544E+21	1,410318E+21	3,849084E+22	2,820862E+21	4,131171E+22
-1320	1,924499E+22	1,924537E+22	1,410515E+21	1,410615E+21	3,849036E+22	2,821130E+21	4,131149E+22
-1319	1,924525E+22	1,924400E+22	1,410401E+21	1,410580E+21	3,848925E+22	2,820982E+21	4,131023E+22
-1318	1,924393E+22	1,924474E+22	1,410708E+21	1,410395E+21	3,848867E+22	2,821103E+21	4,130977E+22
-1317	1,924455E+22	1,924446E+22	1,410479E+21	1,410701E+21	3,848900E+22	2,821180E+21	4,131018E+22
-1316	1,924453E+22	1,924406E+22	1,410492E+21	1,410468E+21	3,848859E+22	2,820960E+21	4,130955E+22
-1315	1,924392E+22	1,924519E+22	1,410641E+21	1,410445E+21	3,848911E+22	2,821086E+21	4,131019E+22
-1314	1,924522E+22	1,924469E+22	1,410326E+21	1,410629E+21	3,848991E+22	2,820954E+21	4,131086E+22
-1313	1,924528E+22	1,924529E+22	1,410482E+21	1,410258E+21	3,849056E+22	2,820740E+21	4,131130E+22
-1312	1,924570E+22	1,924628E+22	1,410471E+21	1,410402E+21	3,849198E+22	2,820873E+21	4,131285E+22
-1311	1,924678E+22	1,924576E+22	1,410181E+21	1,410408E+21	3,849254E+22	2,820589E+21	4,131313E+22
-1310	1,924601E+22	1,924685E+22	1,410419E+21	1,410149E+21	3,849286E+22	2,820568E+21	4,131343E+22
-1309	1,924667E+22	1,924700E+22	1,410265E+21	1,410459E+21	3,849367E+22	2,820724E+21	4,131439E+22
-1308	1,924711E+22	1,924624E+22	1,410191E+21	1,410288E+21	3,849335E+22	2,820479E+21	4,131383E+22
-1307	1,924609E+22	1,924699E+22	1,410486E+21	1,410211E+21	3,849308E+22	2,820697E+21	4,131378E+22
-1306	1,924654E+22	1,924608E+22	1,410254E+21	1,410521E+21	3,849263E+22	2,820775E+21	4,131340E+22
-1305	1,924586E+22	1,924547E+22	1,410422E+21	1,410305E+21	3,849133E+22	2,820727E+21	4,131205E+22
-1304	1,924476E+22	1,924567E+22	1,410604E+21	1,410496E+21	3,849042E+22	2,821100E+21	4,131152E+22
-1303	1,924505E+22	1,924408E+22	1,410354E+21	1,410706E+21	3,848913E+22	2,821060E+21	4,131018E+22
-1302	1,924379E+22	1,924399E+22	1,410672E+21	1,410464E+21	3,848779E+22	2,821136E+21	4,130892E+22
-1301	1,924359E+22	1,924390E+22	1,410667E+21	1,410747E+21	3,848748E+22	2,821414E+21	4,130889E+22
-1300	1,924391E+22	1,924269E+22	1,410542E+21	1,410693E+21	3,848660E+22	2,821235E+21	4,130784E+22
-1299	1,924249E+22	1,924348E+22	1,410840E+21	1,410524E+21	3,848598E+22	2,821364E+21	4,130734E+22
-1298	1,924288E+22	1,924307E+22	1,410610E+21	1,410848E+21	3,848595E+22	2,821458E+21	4,130741E+22
-1297	1,924312E+22	1,924269E+22	1,410621E+21	1,410595E+21	3,848582E+22	2,821216E+21	4,130703E+22
-1296	1,924276E+22	1,924387E+22	1,410780E+21	1,410561E+21	3,848663E+22	2,821341E+21	4,130797E+22
-1295	1,924423E+22	1,924335E+22	1,410426E+21	1,410734E+21	3,848758E+22	2,821160E+21	4,130874E+22
-1294	1,924422E+22	1,924409E+22	1,410564E+21	1,410358E+21	3,848831E+22	2,820921E+21	4,130923E+22
-1293	1,924446E+22	1,924523E+22	1,410567E+21	1,410525E+21	3,848969E+22	2,821092E+21	4,131078E+22
-1292	1,924558E+22	1,924471E+22	1,410280E+21	1,410523E+21	3,849029E+22	2,820804E+21	4,131110E+22
-1291	1,924483E+22	1,924568E+22	1,410541E+21	1,410267E+21	3,849051E+22	2,820808E+21	4,131132E+22
-1290	1,924524E+22	1,924564E+22	1,410413E+21	1,410572E+21	3,849087E+22	2,820985E+21	4,131186E+22
-1289	1,924575E+22	1,924483E+22	1,410356E+21	1,410400E+21	3,849058E+22	2,820756E+21	4,131133E+22
-1288	1,924462E+22	1,924551E+22	1,410657E+21	1,410358E+21	3,849013E+22	2,821014E+21	4,131114E+22
-1287	1,924492E+22	1,924445E+22	1,410382E+21	1,410701E+21	3,848936E+22	2,821083E+21	4,131045E+22
-1286	1,924425E+22	1,924378E+22	1,410539E+21	1,410488E+21	3,848803E+22	2,821027E+21	4,130906E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1285	1,924320E+22	1,924406E+22	1,410743E+21	1,410665E+21	3,848727E+22	2,821408E+21	4,130868E+22
-1284	1,924372E+22	1,924261E+22	1,410503E+21	1,410832E+21	3,848633E+22	2,821335E+21	4,130767E+22
-1283	1,924250E+22	1,924260E+22	1,410829E+21	1,410577E+21	3,848510E+22	2,821406E+21	4,130650E+22
-1282	1,924188E+22	1,924250E+22	1,410828E+21	1,410869E+21	3,848438E+22	2,821697E+21	4,130607E+22
-1281	1,924223E+22	1,924135E+22	1,410693E+21	1,410831E+21	3,848358E+22	2,821524E+21	4,130511E+22
-1280	1,924094E+22	1,924203E+22	1,410984E+21	1,410680E+21	3,848296E+22	2,821664E+21	4,130463E+22
-1279	1,924151E+22	1,924153E+22	1,410714E+21	1,410994E+21	3,848305E+22	2,821708E+21	4,130476E+22
-1278	1,924207E+22	1,924126E+22	1,410708E+21	1,410711E+21	3,848333E+22	2,821419E+21	4,130475E+22
-1277	1,924179E+22	1,924266E+22	1,410883E+21	1,410661E+21	3,848444E+22	2,821545E+21	4,130599E+22
-1276	1,924327E+22	1,924239E+22	1,410528E+21	1,410822E+21	3,848566E+22	2,821350E+21	4,130701E+22
-1275	1,924311E+22	1,924314E+22	1,410665E+21	1,410465E+21	3,848625E+22	2,821130E+21	4,130738E+22
-1274	1,924298E+22	1,924409E+22	1,410692E+21	1,410643E+21	3,848707E+22	2,821335E+21	4,130840E+22
-1273	1,924422E+22	1,924348E+22	1,410422E+21	1,410633E+21	3,848770E+22	2,821055E+21	4,130876E+22
-1272	1,924356E+22	1,924428E+22	1,410701E+21	1,410389E+21	3,848784E+22	2,821089E+21	4,130893E+22
-1271	1,924391E+22	1,924410E+22	1,410543E+21	1,410701E+21	3,848800E+22	2,821244E+21	4,130925E+22
-1270	1,924435E+22	1,924329E+22	1,410466E+21	1,410551E+21	3,848764E+22	2,821017E+21	4,130866E+22
-1269	1,924309E+22	1,924404E+22	1,410772E+21	1,410532E+21	3,848713E+22	2,821304E+21	4,130844E+22
-1268	1,924350E+22	1,924302E+22	1,410505E+21	1,410864E+21	3,848652E+22	2,821369E+21	4,130789E+22
-1267	1,924290E+22	1,924234E+22	1,410677E+21	1,410638E+21	3,848524E+22	2,821315E+21	4,130656E+22
-1266	1,924164E+22	1,924255E+22	1,410913E+21	1,410792E+21	3,848419E+22	2,821705E+21	4,130589E+22
-1265	1,924220E+22	1,924114E+22	1,410692E+21	1,410945E+21	3,848334E+22	2,821637E+21	4,130498E+22
-1264	1,924086E+22	1,924111E+22	1,411011E+21	1,410728E+21	3,848197E+22	2,821740E+21	4,130371E+22
-1263	1,924013E+22	1,924086E+22	1,410957E+21	1,411036E+21	3,848098E+22	2,821992E+21	4,130298E+22
-1262	1,924065E+22	1,923967E+22	1,410799E+21	1,410998E+21	3,848032E+22	2,821797E+21	4,130212E+22
-1261	1,923962E+22	1,924052E+22	1,411088E+21	1,410820E+21	3,848015E+22	2,821908E+21	4,130205E+22
-1260	1,924056E+22	1,924026E+22	1,410823E+21	1,411086E+21	3,848083E+22	2,821909E+21	4,130274E+22
-1259	1,924117E+22	1,924021E+22	1,410817E+21	1,410785E+21	3,848138E+22	2,821603E+21	4,130298E+22
-1258	1,924048E+22	1,924167E+22	1,411007E+21	1,410745E+21	3,848215E+22	2,821752E+21	4,130391E+22
-1257	1,924190E+22	1,924143E+22	1,410662E+21	1,410919E+21	3,848333E+22	2,821581E+21	4,130491E+22
-1256	1,924175E+22	1,924199E+22	1,410804E+21	1,410604E+21	3,848374E+22	2,821407E+21	4,130515E+22
-1255	1,924160E+22	1,924268E+22	1,410804E+21	1,410777E+21	3,848429E+22	2,821581E+21	4,130587E+22
-1254	1,924302E+22	1,924198E+22	1,410531E+21	1,410765E+21	3,848500E+22	2,821295E+21	4,130629E+22
-1253	1,924237E+22	1,924284E+22	1,410816E+21	1,410524E+21	3,848521E+22	2,821340E+21	4,130655E+22
-1252	1,924270E+22	1,924277E+22	1,410657E+21	1,410840E+21	3,848547E+22	2,821497E+21	4,130696E+22
-1251	1,924301E+22	1,924196E+22	1,410580E+21	1,410706E+21	3,848497E+22	2,821286E+21	4,130625E+22
-1250	1,924144E+22	1,924258E+22	1,410918E+21	1,410682E+21	3,848402E+22	2,821600E+21	4,130562E+22
-1249	1,924199E+22	1,924159E+22	1,410684E+21	1,410989E+21	3,848357E+22	2,821673E+21	4,130525E+22
-1248	1,924145E+22	1,924081E+22	1,410871E+21	1,410776E+21	3,848225E+22	2,821646E+21	4,130390E+22
-1247	1,923999E+22	1,924091E+22	1,411074E+21	1,410925E+21	3,848090E+22	2,821998E+21	4,130289E+22
-1246	1,924052E+22	1,923951E+22	1,410826E+21	1,411104E+21	3,848003E+22	2,821930E+21	4,130196E+22
-1245	1,923919E+22	1,923951E+22	1,411133E+21	1,410898E+21	3,847870E+22	2,822031E+21	4,130073E+22
-1244	1,923872E+22	1,923936E+22	1,411070E+21	1,411184E+21	3,847808E+22	2,822254E+21	4,130033E+22
-1243	1,923947E+22	1,923830E+22	1,410908E+21	1,411119E+21	3,847778E+22	2,822028E+21	4,129980E+22
-1242	1,923837E+22	1,923924E+22	1,411220E+21	1,410915E+21	3,847761E+22	2,822135E+21	4,129975E+22
-1241	1,923941E+22	1,923920E+22	1,410977E+21	1,411166E+21	3,847861E+22	2,822144E+21	4,130076E+22
-1240	1,923989E+22	1,923917E+22	1,410960E+21	1,410911E+21	3,847906E+22	2,821871E+21	4,130093E+22
-1239	1,923902E+22	1,924042E+22	1,411112E+21	1,410881E+21	3,847944E+22	2,821993E+21	4,130144E+22
-1238	1,924056E+22	1,924005E+22	1,410757E+21	1,411060E+21	3,848061E+22	2,821816E+21	4,130242E+22
-1237	1,924057E+22	1,924061E+22	1,410903E+21	1,410735E+21	3,848118E+22	2,821638E+21	4,130281E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1236	1,924064E+22	1,924137E+22	1,410910E+21	1,410883E+21	3,848201E+22	2,821793E+21	4,130380E+22
-1235	1,924197E+22	1,924077E+22	1,410638E+21	1,410870E+21	3,848275E+22	2,821508E+21	4,130426E+22
-1234	1,924095E+22	1,924161E+22	1,410939E+21	1,410649E+21	3,848256E+22	2,821588E+21	4,130415E+22
-1233	1,924123E+22	1,924152E+22	1,410811E+21	1,410966E+21	3,848275E+22	2,821778E+21	4,130452E+22
-1232	1,924150E+22	1,924058E+22	1,410748E+21	1,410867E+21	3,848209E+22	2,821615E+21	4,130370E+22
-1231	1,923988E+22	1,924095E+22	1,411069E+21	1,410826E+21	3,848083E+22	2,821895E+21	4,130273E+22
-1230	1,924050E+22	1,923988E+22	1,410842E+21	1,411129E+21	3,848038E+22	2,821972E+21	4,130235E+22
-1229	1,923989E+22	1,923920E+22	1,411026E+21	1,410931E+21	3,847909E+22	2,821957E+21	4,130105E+22
-1228	1,923841E+22	1,923936E+22	1,411210E+21	1,411085E+21	3,847778E+22	2,822294E+21	4,130007E+22
-1227	1,923890E+22	1,923797E+22	1,410949E+21	1,411266E+21	3,847688E+22	2,822216E+21	4,129909E+22
-1226	1,923751E+22	1,923792E+22	1,411267E+21	1,411046E+21	3,847543E+22	2,822314E+21	4,129775E+22
-1225	1,923735E+22	1,923793E+22	1,411231E+21	1,411291E+21	3,847529E+22	2,822522E+21	4,129781E+22
-1224	1,923825E+22	1,923702E+22	1,411071E+21	1,411237E+21	3,847527E+22	2,822308E+21	4,129758E+22
-1223	1,923704E+22	1,923794E+22	1,411342E+21	1,411026E+21	3,847499E+22	2,822368E+21	4,129736E+22
-1222	1,923808E+22	1,923796E+22	1,411085E+21	1,411297E+21	3,847604E+22	2,822382E+21	4,129842E+22
-1221	1,923856E+22	1,923797E+22	1,411053E+21	1,411054E+21	3,847653E+22	2,822106E+21	4,129864E+22
-1220	1,923790E+22	1,923921E+22	1,411200E+21	1,411006E+21	3,847710E+22	2,822206E+21	4,129931E+22
-1219	1,923954E+22	1,923886E+22	1,410848E+21	1,411159E+21	3,847840E+22	2,822006E+21	4,130041E+22
-1218	1,923941E+22	1,923936E+22	1,411027E+21	1,410825E+21	3,847877E+22	2,821851E+21	4,130062E+22
-1217	1,923947E+22	1,924026E+22	1,411066E+21	1,410970E+21	3,847973E+22	2,822036E+21	4,130177E+22
-1216	1,924061E+22	1,923961E+22	1,410790E+21	1,411017E+21	3,848023E+22	2,821807E+21	4,130203E+22
-1215	1,923935E+22	1,924015E+22	1,411063E+21	1,410806E+21	3,847949E+22	2,821869E+21	4,130136E+22
-1214	1,923974E+22	1,923993E+22	1,410943E+21	1,411124E+21	3,847968E+22	2,822067E+21	4,130174E+22
-1213	1,924010E+22	1,923900E+22	1,410888E+21	1,411015E+21	3,847910E+22	2,821903E+21	4,130100E+22
-1212	1,923858E+22	1,923941E+22	1,411215E+21	1,410958E+21	3,847799E+22	2,822172E+21	4,130016E+22
-1211	1,923902E+22	1,923844E+22	1,410982E+21	1,411258E+21	3,847746E+22	2,822239E+21	4,129970E+22
-1210	1,923807E+22	1,923769E+22	1,411176E+21	1,411087E+21	3,847577E+22	2,822263E+21	4,129803E+22
-1209	1,923669E+22	1,923787E+22	1,411377E+21	1,411234E+21	3,847456E+22	2,822611E+21	4,129717E+22
-1208	1,923730E+22	1,923645E+22	1,411113E+21	1,411439E+21	3,847376E+22	2,822553E+21	4,129631E+22
-1207	1,923603E+22	1,923627E+22	1,411399E+21	1,411188E+21	3,847230E+22	2,822587E+21	4,129489E+22
-1206	1,923612E+22	1,923638E+22	1,411367E+21	1,411417E+21	3,847251E+22	2,822784E+21	4,129529E+22
-1205	1,923701E+22	1,923573E+22	1,411194E+21	1,411368E+21	3,847274E+22	2,822562E+21	4,129530E+22
-1204	1,923583E+22	1,923676E+22	1,411441E+21	1,411160E+21	3,847259E+22	2,822601E+21	4,129519E+22
-1203	1,923680E+22	1,923681E+22	1,411177E+21	1,411411E+21	3,847361E+22	2,822589E+21	4,129620E+22
-1202	1,923721E+22	1,923676E+22	1,411166E+21	1,411161E+21	3,847397E+22	2,822327E+21	4,129630E+22
-1201	1,923677E+22	1,923803E+22	1,411346E+21	1,411078E+21	3,847480E+22	2,822424E+21	4,129722E+22
-1200	1,923839E+22	1,923774E+22	1,411001E+21	1,411260E+21	3,847612E+22	2,822261E+21	4,129838E+22
-1199	1,923808E+22	1,923808E+22	1,411141E+21	1,410940E+21	3,847615E+22	2,822081E+21	4,129823E+22
-1198	1,923811E+22	1,923889E+22	1,411180E+21	1,411116E+21	3,847700E+22	2,822296E+21	4,129929E+22
-1197	1,923920E+22	1,923826E+22	1,410902E+21	1,411181E+21	3,847746E+22	2,822083E+21	4,129954E+22
-1196	1,923810E+22	1,923872E+22	1,411174E+21	1,410962E+21	3,847682E+22	2,822135E+21	4,129896E+22
-1195	1,923848E+22	1,923851E+22	1,411067E+21	1,411243E+21	3,847699E+22	2,822311E+21	4,129930E+22
-1194	1,923862E+22	1,923753E+22	1,411048E+21	1,411143E+21	3,847615E+22	2,822191E+21	4,129834E+22
-1193	1,923701E+22	1,923801E+22	1,411400E+21	1,411086E+21	3,847501E+22	2,822486E+21	4,129750E+22
-1192	1,923724E+22	1,923698E+22	1,411158E+21	1,411439E+21	3,847422E+22	2,822597E+21	4,129682E+22
-1191	1,923621E+22	1,923590E+22	1,411317E+21	1,411269E+21	3,847212E+22	2,822586E+21	4,129470E+22
-1190	1,923513E+22	1,923603E+22	1,411517E+21	1,411402E+21	3,847117E+22	2,822919E+21	4,129409E+22
-1189	1,923595E+22	1,923483E+22	1,411251E+21	1,411583E+21	3,847078E+22	2,822835E+21	4,129361E+22
-1188	1,923490E+22	1,923485E+22	1,411520E+21	1,411313E+21	3,846975E+22	2,822833E+21	4,129258E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1187	1,923491E+22	1,923521E+22	1,411477E+21	1,411519E+21	3,847011E+22	2,822996E+21	4,129311E+22
-1186	1,923552E+22	1,923460E+22	1,411318E+21	1,411483E+21	3,847012E+22	2,822800E+21	4,129292E+22
-1185	1,923444E+22	1,923568E+22	1,411584E+21	1,411260E+21	3,847011E+22	2,822844E+21	4,129296E+22
-1184	1,923546E+22	1,923568E+22	1,411318E+21	1,411529E+21	3,847114E+22	2,822847E+21	4,129399E+22
-1183	1,923589E+22	1,923536E+22	1,411282E+21	1,411268E+21	3,847124E+22	2,822550E+21	4,129379E+22
-1182	1,923566E+22	1,923662E+22	1,411465E+21	1,411195E+21	3,847229E+22	2,822661E+21	4,129495E+22
-1181	1,923718E+22	1,923649E+22	1,411110E+21	1,411399E+21	3,847368E+22	2,822509E+21	4,129619E+22
-1180	1,923690E+22	1,923681E+22	1,411226E+21	1,411099E+21	3,847372E+22	2,822324E+21	4,129604E+22
-1179	1,923688E+22	1,923760E+22	1,411267E+21	1,411248E+21	3,847448E+22	2,822515E+21	4,129700E+22
-1178	1,923783E+22	1,923692E+22	1,411029E+21	1,411305E+21	3,847475E+22	2,822334E+21	4,129709E+22
-1177	1,923683E+22	1,923742E+22	1,411346E+21	1,411061E+21	3,847425E+22	2,822407E+21	4,129666E+22
-1176	1,923701E+22	1,923721E+22	1,411251E+21	1,411370E+21	3,847423E+22	2,822621E+21	4,129685E+22
-1175	1,923685E+22	1,923597E+22	1,411204E+21	1,411297E+21	3,847282E+22	2,822501E+21	4,129532E+22
-1174	1,923529E+22	1,923626E+22	1,411549E+21	1,411268E+21	3,847155E+22	2,822817E+21	4,129436E+22
-1173	1,923554E+22	1,923527E+22	1,411298E+21	1,411625E+21	3,847081E+22	2,822923E+21	4,129373E+22
-1172	1,923482E+22	1,923419E+22	1,411436E+21	1,411440E+21	3,846901E+22	2,822876E+21	4,129189E+22
-1171	1,923387E+22	1,923447E+22	1,411639E+21	1,411516E+21	3,846834E+22	2,823155E+21	4,129149E+22
-1170	1,923457E+22	1,923348E+22	1,411408E+21	1,411697E+21	3,846805E+22	2,823105E+21	4,129116E+22
-1169	1,923349E+22	1,923370E+22	1,411688E+21	1,411420E+21	3,846720E+22	2,823108E+21	4,129031E+22
-1168	1,923330E+22	1,923408E+22	1,411636E+21	1,411657E+21	3,846738E+22	2,823293E+21	4,129067E+22
-1167	1,923386E+22	1,923317E+22	1,411441E+21	1,411620E+21	3,846703E+22	2,823061E+21	4,129009E+22
-1166	1,923312E+22	1,923411E+22	1,411702E+21	1,411389E+21	3,846723E+22	2,823091E+21	4,129032E+22
-1165	1,923427E+22	1,923429E+22	1,411431E+21	1,411643E+21	3,846857E+22	2,823074E+21	4,129164E+22
-1164	1,923492E+22	1,923407E+22	1,411368E+21	1,411388E+21	3,846899E+22	2,822757E+21	4,129175E+22
-1163	1,923461E+22	1,923549E+22	1,411538E+21	1,411303E+21	3,847010E+22	2,822841E+21	4,129294E+22
-1162	1,923591E+22	1,923541E+22	1,411215E+21	1,411526E+21	3,847131E+22	2,822740E+21	4,129406E+22
-1161	1,923570E+22	1,923573E+22	1,411358E+21	1,411212E+21	3,847144E+22	2,822570E+21	4,129401E+22
-1160	1,923560E+22	1,923647E+22	1,411417E+21	1,411366E+21	3,847207E+22	2,822783E+21	4,129485E+22
-1159	1,923640E+22	1,923546E+22	1,411178E+21	1,411419E+21	3,847186E+22	2,822598E+21	4,129445E+22
-1158	1,923544E+22	1,923582E+22	1,411509E+21	1,411204E+21	3,847127E+22	2,822713E+21	4,129398E+22
-1157	1,923535E+22	1,923570E+22	1,411403E+21	1,411538E+21	3,847105E+22	2,822941E+21	4,129399E+22
-1156	1,923523E+22	1,923430E+22	1,411327E+21	1,411494E+21	3,846953E+22	2,822822E+21	4,129235E+22
-1155	1,923376E+22	1,923455E+22	1,411658E+21	1,411429E+21	3,846831E+22	2,823088E+21	4,129139E+22
-1154	1,923402E+22	1,923362E+22	1,411447E+21	1,411764E+21	3,846764E+22	2,823211E+21	4,129085E+22
-1153	1,923348E+22	1,923277E+22	1,411612E+21	1,411545E+21	3,846625E+22	2,823158E+21	4,128941E+22
-1152	1,923243E+22	1,923323E+22	1,411812E+21	1,411635E+21	3,846566E+22	2,823447E+21	4,128911E+22
-1151	1,923283E+22	1,923208E+22	1,411559E+21	1,411833E+21	3,846492E+22	2,823392E+21	4,128831E+22
-1150	1,923190E+22	1,923221E+22	1,411825E+21	1,411582E+21	3,846411E+22	2,823407E+21	4,128752E+22
-1149	1,923175E+22	1,923265E+22	1,411756E+21	1,411806E+21	3,846439E+22	2,823562E+21	4,128796E+22
-1148	1,923266E+22	1,923168E+22	1,411530E+21	1,411762E+21	3,846434E+22	2,823293E+21	4,128763E+22
-1147	1,923214E+22	1,923272E+22	1,411781E+21	1,411483E+21	3,846486E+22	2,823263E+21	4,128812E+22
-1146	1,923319E+22	1,923313E+22	1,411544E+21	1,411742E+21	3,846632E+22	2,823286E+21	4,128960E+22
-1145	1,923382E+22	1,923312E+22	1,411494E+21	1,411490E+21	3,846695E+22	2,822984E+21	4,128993E+22
-1144	1,923334E+22	1,923453E+22	1,411663E+21	1,411429E+21	3,846787E+22	2,823093E+21	4,129096E+22
-1143	1,923448E+22	1,923411E+22	1,411341E+21	1,411646E+21	3,846859E+22	2,822987E+21	4,129158E+22
-1142	1,923448E+22	1,923427E+22	1,411498E+21	1,411337E+21	3,846875E+22	2,822835E+21	4,129158E+22
-1141	1,923425E+22	1,923508E+22	1,411567E+21	1,411480E+21	3,846933E+22	2,823047E+21	4,129238E+22
-1140	1,923506E+22	1,923400E+22	1,411305E+21	1,411567E+21	3,846906E+22	2,822872E+21	4,129193E+22
-1139	1,923396E+22	1,923430E+22	1,411620E+21	1,411348E+21	3,846826E+22	2,822968E+21	4,129123E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1138	1,923366E+22	1,923418E+22	1,411544E+21	1,411701E+21	3,846784E+22	2,823246E+21	4,129109E+22
-1137	1,923370E+22	1,923280E+22	1,411485E+21	1,411644E+21	3,846651E+22	2,823129E+21	4,128964E+22
-1136	1,923225E+22	1,923306E+22	1,411820E+21	1,411572E+21	3,846531E+22	2,823391E+21	4,128870E+22
-1135	1,923244E+22	1,923198E+22	1,411615E+21	1,411896E+21	3,846442E+22	2,823512E+21	4,128793E+22
-1134	1,923202E+22	1,923116E+22	1,411780E+21	1,411699E+21	3,846318E+22	2,823479E+21	4,128666E+22
-1133	1,923074E+22	1,923180E+22	1,411962E+21	1,411794E+21	3,846254E+22	2,823756E+21	4,128630E+22
-1132	1,923128E+22	1,923054E+22	1,411672E+21	1,412009E+21	3,846182E+22	2,823681E+21	4,128550E+22
-1131	1,923052E+22	1,923065E+22	1,411915E+21	1,411712E+21	3,846117E+22	2,823627E+21	4,128480E+22
-1130	1,923045E+22	1,923125E+22	1,411876E+21	1,411910E+21	3,846170E+22	2,823787E+21	4,128549E+22
-1129	1,923159E+22	1,923053E+22	1,411667E+21	1,411841E+21	3,846213E+22	2,823508E+21	4,128563E+22
-1128	1,923102E+22	1,923175E+22	1,411905E+21	1,411577E+21	3,846278E+22	2,823483E+21	4,128626E+22
-1127	1,923183E+22	1,923199E+22	1,411666E+21	1,411854E+21	3,846382E+22	2,823520E+21	4,128734E+22
-1126	1,923259E+22	1,923189E+22	1,411614E+21	1,411627E+21	3,846448E+22	2,823241E+21	4,128772E+22
-1125	1,923204E+22	1,923332E+22	1,411782E+21	1,411555E+21	3,846536E+22	2,823337E+21	4,128870E+22
-1124	1,923332E+22	1,923275E+22	1,411448E+21	1,411773E+21	3,846607E+22	2,823221E+21	4,128929E+22
-1123	1,923336E+22	1,923286E+22	1,411604E+21	1,411446E+21	3,846622E+22	2,823049E+21	4,128927E+22
-1122	1,923285E+22	1,923374E+22	1,411709E+21	1,411607E+21	3,846659E+22	2,823316E+21	4,128991E+22
-1121	1,923354E+22	1,923271E+22	1,411458E+21	1,411713E+21	3,846625E+22	2,823171E+21	4,128942E+22
-1120	1,923235E+22	1,923289E+22	1,411762E+21	1,411515E+21	3,846524E+22	2,823277E+21	4,128852E+22
-1119	1,923196E+22	1,923242E+22	1,411697E+21	1,411856E+21	3,846438E+22	2,823553E+21	4,128794E+22
-1118	1,923226E+22	1,923104E+22	1,411648E+21	1,411796E+21	3,846330E+22	2,823444E+21	4,128674E+22
-1117	1,923075E+22	1,923150E+22	1,411983E+21	1,411709E+21	3,846224E+22	2,823691E+21	4,128593E+22
-1116	1,923095E+22	1,923044E+22	1,411756E+21	1,412055E+21	3,846138E+22	2,823812E+21	4,128519E+22
-1115	1,923048E+22	1,922965E+22	1,411896E+21	1,411850E+21	3,846013E+22	2,823745E+21	4,128388E+22
-1114	1,922909E+22	1,923037E+22	1,412098E+21	1,411941E+21	3,845947E+22	2,824038E+21	4,128351E+22
-1113	1,922985E+22	1,922922E+22	1,411817E+21	1,412129E+21	3,845907E+22	2,823946E+21	4,128301E+22
-1112	1,922923E+22	1,922935E+22	1,412049E+21	1,411817E+21	3,845859E+22	2,823866E+21	4,128245E+22
-1111	1,922912E+22	1,922983E+22	1,412022E+21	1,412007E+21	3,845895E+22	2,824029E+21	4,128298E+22
-1110	1,923039E+22	1,922925E+22	1,411804E+21	1,411968E+21	3,845964E+22	2,823771E+21	4,128341E+22
-1109	1,922965E+22	1,923063E+22	1,412022E+21	1,411717E+21	3,846028E+22	2,823739E+21	4,128402E+22
-1108	1,923060E+22	1,923071E+22	1,411760E+21	1,412007E+21	3,846131E+22	2,823767E+21	4,128508E+22
-1107	1,923148E+22	1,923054E+22	1,411692E+21	1,411739E+21	3,846202E+22	2,823431E+21	4,128545E+22
-1106	1,923087E+22	1,923207E+22	1,411903E+21	1,411649E+21	3,846294E+22	2,823552E+21	4,128650E+22
-1105	1,923217E+22	1,923163E+22	1,411591E+21	1,411858E+21	3,846380E+22	2,823449E+21	4,128725E+22
-1104	1,923198E+22	1,923173E+22	1,411741E+21	1,411567E+21	3,846371E+22	2,823308E+21	4,128702E+22
-1103	1,923117E+22	1,923229E+22	1,411856E+21	1,411756E+21	3,846346E+22	2,823612E+21	4,128707E+22
-1102	1,923199E+22	1,923111E+22	1,411606E+21	1,411889E+21	3,846310E+22	2,823495E+21	4,128660E+22
-1101	1,923079E+22	1,923129E+22	1,411903E+21	1,411677E+21	3,846208E+22	2,823580E+21	4,128566E+22
-1100	1,923061E+22	1,923070E+22	1,411831E+21	1,412011E+21	3,846131E+22	2,823842E+21	4,128515E+22
-1099	1,923095E+22	1,922940E+22	1,411778E+21	1,411929E+21	3,846035E+22	2,823706E+21	4,128406E+22
-1098	1,922919E+22	1,923008E+22	1,412141E+21	1,411854E+21	3,845927E+22	2,823995E+21	4,128326E+22
-1097	1,922930E+22	1,922914E+22	1,411924E+21	1,412202E+21	3,845844E+22	2,824126E+21	4,128256E+22
-1096	1,922881E+22	1,922828E+22	1,412048E+21	1,412002E+21	3,845709E+22	2,824050E+21	4,128114E+22
-1095	1,922741E+22	1,922871E+22	1,412254E+21	1,412070E+21	3,845612E+22	2,824324E+21	4,128044E+22
-1094	1,922847E+22	1,922762E+22	1,411971E+21	1,412253E+21	3,845610E+22	2,824224E+21	4,128032E+22
-1093	1,922790E+22	1,922799E+22	1,412182E+21	1,411935E+21	3,845589E+22	2,824117E+21	4,128001E+22
-1092	1,922789E+22	1,922849E+22	1,412127E+21	1,412146E+21	3,845638E+22	2,824273E+21	4,128066E+22
-1091	1,922920E+22	1,922803E+22	1,411882E+21	1,412099E+21	3,845723E+22	2,823981E+21	4,128121E+22
-1090	1,922844E+22	1,922950E+22	1,412120E+21	1,411841E+21	3,845794E+22	2,823961E+21	4,128190E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1089	1,922949E+22	1,922968E+22	1,411880E+21	1,412098E+21	3,845917E+22	2,823978E+21	4,128315E+22
-1088	1,923040E+22	1,922947E+22	1,411812E+21	1,411827E+21	3,845987E+22	2,823640E+21	4,128351E+22
-1087	1,922955E+22	1,923073E+22	1,412052E+21	1,411747E+21	3,846028E+22	2,823798E+21	4,128408E+22
-1086	1,923077E+22	1,923031E+22	1,411741E+21	1,411996E+21	3,846107E+22	2,823737E+21	4,128481E+22
-1085	1,923038E+22	1,923035E+22	1,411876E+21	1,411734E+21	3,846073E+22	2,823611E+21	4,128434E+22
-1084	1,922969E+22	1,923062E+22	1,411976E+21	1,411936E+21	3,846031E+22	2,823912E+21	4,128422E+22
-1083	1,923066E+22	1,922942E+22	1,411717E+21	1,412034E+21	3,846007E+22	2,823751E+21	4,128382E+22
-1082	1,922944E+22	1,922975E+22	1,412047E+21	1,411806E+21	3,845919E+22	2,823854E+21	4,128305E+22
-1081	1,922923E+22	1,922939E+22	1,412002E+21	1,412125E+21	3,845862E+22	2,824127E+21	4,128275E+22
-1080	1,922935E+22	1,922814E+22	1,411941E+21	1,412069E+21	3,845749E+22	2,824010E+21	4,128150E+22
-1079	1,922730E+22	1,922852E+22	1,412317E+21	1,412013E+21	3,845582E+22	2,824330E+21	4,128015E+22
-1078	1,922754E+22	1,922752E+22	1,412094E+21	1,412369E+21	3,845506E+22	2,824463E+21	4,127953E+22
-1077	1,922713E+22	1,922667E+22	1,412199E+21	1,412159E+21	3,845379E+22	2,824357E+21	4,127815E+22
-1076	1,922607E+22	1,922698E+22	1,412380E+21	1,412217E+21	3,845305E+22	2,824597E+21	4,127765E+22
-1075	1,922729E+22	1,922607E+22	1,412075E+21	1,412377E+21	3,845337E+22	2,824452E+21	4,127782E+22
-1074	1,922663E+22	1,922677E+22	1,412289E+21	1,412068E+21	3,845340E+22	2,824357E+21	4,127776E+22
-1073	1,922670E+22	1,922746E+22	1,412240E+21	1,412268E+21	3,845416E+22	2,824508E+21	4,127867E+22
-1072	1,922800E+22	1,922700E+22	1,411989E+21	1,412206E+21	3,845500E+22	2,824195E+21	4,127919E+22
-1071	1,922716E+22	1,922823E+22	1,412252E+21	1,411931E+21	3,845539E+22	2,824183E+21	4,127957E+22
-1070	1,922832E+22	1,922845E+22	1,412026E+21	1,412182E+21	3,845677E+22	2,824208E+21	4,128098E+22
-1069	1,922906E+22	1,922830E+22	1,411949E+21	1,411938E+21	3,845736E+22	2,823887E+21	4,128125E+22
-1068	1,922820E+22	1,922933E+22	1,412165E+21	1,411899E+21	3,845753E+22	2,824064E+21	4,128159E+22
-1067	1,922939E+22	1,922884E+22	1,411836E+21	1,412153E+21	3,845823E+22	2,823989E+21	4,128222E+22
-1066	1,922900E+22	1,922892E+22	1,411988E+21	1,411893E+21	3,845792E+22	2,823880E+21	4,128181E+22
-1065	1,922845E+22	1,922925E+22	1,412111E+21	1,412062E+21	3,845770E+22	2,824172E+21	4,128188E+22
-1064	1,922938E+22	1,922808E+22	1,411867E+21	1,412151E+21	3,845746E+22	2,824019E+21	4,128148E+22
-1063	1,922787E+22	1,922823E+22	1,412230E+21	1,411941E+21	3,845610E+22	2,824171E+21	4,128027E+22
-1062	1,922750E+22	1,922793E+22	1,412188E+21	1,412287E+21	3,845543E+22	2,824475E+21	4,127990E+22
-1061	1,922746E+22	1,922660E+22	1,412110E+21	1,412262E+21	3,845405E+22	2,824372E+21	4,127842E+22
-1060	1,922560E+22	1,922662E+22	1,412457E+21	1,412201E+21	3,845222E+22	2,824658E+21	4,127688E+22
-1059	1,922606E+22	1,922568E+22	1,412213E+21	1,412513E+21	3,845174E+22	2,824726E+21	4,127647E+22
-1058	1,922579E+22	1,922507E+22	1,412323E+21	1,412285E+21	3,845086E+22	2,824609E+21	4,127547E+22
-1057	1,922484E+22	1,922570E+22	1,412511E+21	1,412325E+21	3,845054E+22	2,824836E+21	4,127537E+22
-1056	1,922600E+22	1,922502E+22	1,412195E+21	1,412492E+21	3,845103E+22	2,824687E+21	4,127571E+22
-1055	1,922520E+22	1,922555E+22	1,412422E+21	1,412190E+21	3,845074E+22	2,824613E+21	4,127536E+22
-1054	1,922538E+22	1,922630E+22	1,412379E+21	1,412376E+21	3,845168E+22	2,824755E+21	4,127644E+22
-1053	1,922670E+22	1,922584E+22	1,412120E+21	1,412310E+21	3,845253E+22	2,824429E+21	4,127696E+22
-1052	1,922602E+22	1,922679E+22	1,412368E+21	1,412045E+21	3,845282E+22	2,824413E+21	4,127723E+22
-1051	1,922713E+22	1,922710E+22	1,412127E+21	1,412296E+21	3,845423E+22	2,824423E+21	4,127865E+22
-1050	1,922770E+22	1,922708E+22	1,412054E+21	1,412090E+21	3,845477E+22	2,824144E+21	4,127891E+22
-1049	1,922691E+22	1,922808E+22	1,412278E+21	1,412050E+21	3,845499E+22	2,824328E+21	4,127932E+22
-1048	1,922812E+22	1,922754E+22	1,411954E+21	1,412287E+21	3,845566E+22	2,824241E+21	4,127990E+22
-1047	1,922763E+22	1,922739E+22	1,412137E+21	1,412015E+21	3,845503E+22	2,824153E+21	4,127918E+22
-1046	1,922710E+22	1,922783E+22	1,412281E+21	1,412174E+21	3,845493E+22	2,824455E+21	4,127938E+22
-1045	1,922775E+22	1,922673E+22	1,412041E+21	1,412296E+21	3,845448E+22	2,824336E+21	4,127882E+22
-1044	1,922619E+22	1,922659E+22	1,412383E+21	1,412128E+21	3,845278E+22	2,824511E+21	4,127729E+22
-1043	1,922579E+22	1,922621E+22	1,412320E+21	1,412461E+21	3,845200E+22	2,824781E+21	4,127678E+22
-1042	1,922579E+22	1,922492E+22	1,412246E+21	1,412435E+21	3,845071E+22	2,824681E+21	4,127539E+22
-1041	1,922422E+22	1,922502E+22	1,412593E+21	1,412335E+21	3,844924E+22	2,824928E+21	4,127416E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1040	1,922476E+22	1,922421E+22	1,412352E+21	1,412620E+21	3,844897E+22	2,824972E+21	4,127394E+22
-1039	1,922433E+22	1,922363E+22	1,412479E+21	1,412407E+21	3,844796E+22	2,824886E+21	4,127284E+22
-1038	1,922336E+22	1,922448E+22	1,412662E+21	1,412455E+21	3,844784E+22	2,825118E+21	4,127296E+22
-1037	1,922445E+22	1,922384E+22	1,412340E+21	1,412639E+21	3,844829E+22	2,824979E+21	4,127327E+22
-1036	1,922389E+22	1,922408E+22	1,412537E+21	1,412332E+21	3,844796E+22	2,824869E+21	4,127283E+22
-1035	1,922422E+22	1,922488E+22	1,412477E+21	1,412473E+21	3,844910E+22	2,824951E+21	4,127405E+22
-1034	1,922554E+22	1,922461E+22	1,412223E+21	1,412412E+21	3,845015E+22	2,824636E+21	4,127479E+22
-1033	1,922492E+22	1,922567E+22	1,412473E+21	1,412154E+21	3,845059E+22	2,824627E+21	4,127522E+22
-1032	1,922588E+22	1,922604E+22	1,412230E+21	1,412417E+21	3,845192E+22	2,824646E+21	4,127656E+22
-1031	1,922630E+22	1,922576E+22	1,412181E+21	1,412233E+21	3,845206E+22	2,824414E+21	4,127647E+22
-1030	1,922560E+22	1,922678E+22	1,412415E+21	1,412178E+21	3,845238E+22	2,824593E+21	4,127698E+22
-1029	1,922678E+22	1,922621E+22	1,412106E+21	1,412416E+21	3,845300E+22	2,824522E+21	4,127752E+22
-1028	1,922636E+22	1,922575E+22	1,412282E+21	1,412157E+21	3,845212E+22	2,824439E+21	4,127656E+22
-1027	1,922563E+22	1,922629E+22	1,412417E+21	1,412314E+21	3,845192E+22	2,824731E+21	4,127665E+22
-1026	1,922607E+22	1,922526E+22	1,412181E+21	1,412473E+21	3,845133E+22	2,824654E+21	4,127598E+22
-1025	1,922457E+22	1,922500E+22	1,412529E+21	1,412302E+21	3,844957E+22	2,824831E+21	4,127440E+22
-1024	1,922421E+22	1,922461E+22	1,412465E+21	1,412597E+21	3,844881E+22	2,825062E+21	4,127388E+22
-1023	1,922418E+22	1,922318E+22	1,412417E+21	1,412563E+21	3,844736E+22	2,824980E+21	4,127234E+22
-1022	1,922272E+22	1,922349E+22	1,412763E+21	1,412448E+21	3,844621E+22	2,825211E+21	4,127142E+22
-1021	1,922315E+22	1,922287E+22	1,412519E+21	1,412762E+21	3,844603E+22	2,825281E+21	4,127131E+22
-1020	1,922280E+22	1,922211E+22	1,412609E+21	1,412577E+21	3,844491E+22	2,825186E+21	4,127010E+22
-1019	1,922194E+22	1,922304E+22	1,412768E+21	1,412601E+21	3,844499E+22	2,825368E+21	4,127035E+22
-1018	1,922312E+22	1,922255E+22	1,412447E+21	1,412773E+21	3,844567E+22	2,825220E+21	4,127089E+22
-1017	1,922283E+22	1,922282E+22	1,412643E+21	1,412438E+21	3,844565E+22	2,825081E+21	4,127073E+22
-1016	1,922315E+22	1,922373E+22	1,412587E+21	1,412551E+21	3,844688E+22	2,825137E+21	4,127202E+22
-1015	1,922422E+22	1,922341E+22	1,412354E+21	1,412526E+21	3,844763E+22	2,824880E+21	4,127251E+22
-1014	1,922358E+22	1,922454E+22	1,412599E+21	1,412284E+21	3,844812E+22	2,824882E+21	4,127301E+22
-1013	1,922448E+22	1,922482E+22	1,412367E+21	1,412562E+21	3,844929E+22	2,824929E+21	4,127422E+22
-1012	1,922508E+22	1,922422E+22	1,412298E+21	1,412377E+21	3,844930E+22	2,824675E+21	4,127397E+22
-1011	1,922446E+22	1,922527E+22	1,412526E+21	1,412285E+21	3,844974E+22	2,824811E+21	4,127455E+22
-1010	1,922547E+22	1,922488E+22	1,412239E+21	1,412534E+21	3,845035E+22	2,824773E+21	4,127512E+22
-1009	1,922501E+22	1,922446E+22	1,412417E+21	1,412301E+21	3,844946E+22	2,824718E+21	4,127418E+22
-1008	1,922405E+22	1,922494E+22	1,412556E+21	1,412452E+21	3,844899E+22	2,825009E+21	4,127400E+22
-1007	1,922428E+22	1,922367E+22	1,412350E+21	1,412636E+21	3,844795E+22	2,824986E+21	4,127293E+22
-1006	1,922291E+22	1,922339E+22	1,412698E+21	1,412446E+21	3,844630E+22	2,825144E+21	4,127144E+22
-1005	1,922257E+22	1,922297E+22	1,412644E+21	1,412742E+21	3,844554E+22	2,825386E+21	4,127093E+22
-1004	1,922268E+22	1,922136E+22	1,412571E+21	1,412725E+21	3,844404E+22	2,825296E+21	4,126934E+22
-1003	1,922121E+22	1,922188E+22	1,412885E+21	1,412608E+21	3,844309E+22	2,825493E+21	4,126858E+22
-1002	1,922158E+22	1,922148E+22	1,412645E+21	1,412939E+21	3,844306E+22	2,825584E+21	4,126864E+22
-1001	1,922148E+22	1,922073E+22	1,412724E+21	1,412735E+21	3,844221E+22	2,825459E+21	4,126767E+22
-1000	1,922072E+22	1,922175E+22	1,412878E+21	1,412694E+21	3,844247E+22	2,825572E+21	4,126805E+22
-999	1,922184E+22	1,922122E+22	1,412587E+21	1,412859E+21	3,844306E+22	2,825446E+21	4,126851E+22
-998	1,922157E+22	1,922168E+22	1,412784E+21	1,412517E+21	3,844326E+22	2,825301E+21	4,126856E+22
-997	1,922175E+22	1,922267E+22	1,412730E+21	1,412670E+21	3,844442E+22	2,825401E+21	4,126982E+22
-996	1,922287E+22	1,922203E+22	1,412468E+21	1,412678E+21	3,844490E+22	2,825146E+21	4,127004E+22
-995	1,922235E+22	1,922315E+22	1,412688E+21	1,412421E+21	3,844550E+22	2,825109E+21	4,127061E+22
-994	1,922330E+22	1,922353E+22	1,412472E+21	1,412691E+21	3,844683E+22	2,825162E+21	4,127199E+22
-993	1,922408E+22	1,922290E+22	1,412410E+21	1,412491E+21	3,844698E+22	2,824901E+21	4,127188E+22
-992	1,922330E+22	1,922405E+22	1,412653E+21	1,412375E+21	3,844734E+22	2,825028E+21	4,127237E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-991	1,922388E+22	1,922357E+22	1,412403E+21	1,412669E+21	3,844745E+22	2,825072E+21	4,127252E+22
-990	1,922327E+22	1,922310E+22	1,412587E+21	1,412460E+21	3,844637E+22	2,825048E+21	4,127142E+22
-989	1,922225E+22	1,922339E+22	1,412736E+21	1,412629E+21	3,844564E+22	2,825366E+21	4,127100E+22
-988	1,922264E+22	1,922172E+22	1,412505E+21	1,412812E+21	3,844436E+22	2,825317E+21	4,126968E+22
-987	1,922144E+22	1,922152E+22	1,412827E+21	1,412593E+21	3,844295E+22	2,825420E+21	4,126837E+22
-986	1,922106E+22	1,922136E+22	1,412783E+21	1,412895E+21	3,844242E+22	2,825677E+21	4,126810E+22
-985	1,922127E+22	1,921991E+22	1,412699E+21	1,412892E+21	3,844118E+22	2,825591E+21	4,126677E+22
-984	1,921977E+22	1,922056E+22	1,413006E+21	1,412743E+21	3,844032E+22	2,825749E+21	4,126607E+22
-983	1,922003E+22	1,922012E+22	1,412801E+21	1,413075E+21	3,844015E+22	2,825875E+21	4,126602E+22
-982	1,922009E+22	1,921949E+22	1,412877E+21	1,412839E+21	3,843957E+22	2,825715E+21	4,126529E+22
-981	1,921936E+22	1,922048E+22	1,413041E+21	1,412791E+21	3,843984E+22	2,825832E+21	4,126567E+22
-980	1,922050E+22	1,921977E+22	1,412721E+21	1,412977E+21	3,844027E+22	2,825699E+21	4,126597E+22
-979	1,922025E+22	1,922032E+22	1,412878E+21	1,412652E+21	3,844057E+22	2,825529E+21	4,126610E+22
-978	1,922038E+22	1,922140E+22	1,412833E+21	1,412824E+21	3,844178E+22	2,825657E+21	4,126744E+22
-977	1,922179E+22	1,922074E+22	1,412560E+21	1,412824E+21	3,844253E+22	2,825384E+21	4,126792E+22
-976	1,922136E+22	1,922192E+22	1,412779E+21	1,412507E+21	3,844329E+22	2,825286E+21	4,126857E+22
-975	1,922212E+22	1,922230E+22	1,412614E+21	1,412778E+21	3,844442E+22	2,825391E+21	4,126981E+22
-974	1,922275E+22	1,922181E+22	1,412562E+21	1,412587E+21	3,844457E+22	2,825149E+21	4,126972E+22
-973	1,922168E+22	1,922286E+22	1,412822E+21	1,412521E+21	3,844454E+22	2,825343E+21	4,126989E+22
-972	1,922217E+22	1,922196E+22	1,412553E+21	1,412850E+21	3,844413E+22	2,825403E+21	4,126953E+22
-971	1,922166E+22	1,922136E+22	1,412714E+21	1,412640E+21	3,844301E+22	2,825354E+21	4,126837E+22
-970	1,922071E+22	1,922166E+22	1,412876E+21	1,412796E+21	3,844237E+22	2,825672E+21	4,126804E+22
-969	1,922135E+22	1,921999E+22	1,412641E+21	1,412968E+21	3,844134E+22	2,825609E+21	4,126695E+22
-968	1,922009E+22	1,921998E+22	1,412955E+21	1,412717E+21	3,844007E+22	2,825672E+21	4,126574E+22
-967	1,921941E+22	1,921993E+22	1,412947E+21	1,413048E+21	3,843934E+22	2,825996E+21	4,126534E+22
-966	1,921958E+22	1,921860E+22	1,412871E+21	1,413039E+21	3,843819E+22	2,825910E+21	4,126410E+22
-965	1,921813E+22	1,921919E+22	1,413187E+21	1,412888E+21	3,843732E+22	2,826075E+21	4,126339E+22
-964	1,921852E+22	1,921846E+22	1,412959E+21	1,413197E+21	3,843698E+22	2,826156E+21	4,126314E+22
-963	1,921870E+22	1,921793E+22	1,413001E+21	1,412948E+21	3,843663E+22	2,825949E+21	4,126258E+22
-962	1,921795E+22	1,921913E+22	1,413158E+21	1,412917E+21	3,843708E+22	2,826076E+21	4,126316E+22
-961	1,921924E+22	1,921848E+22	1,412814E+21	1,413127E+21	3,843772E+22	2,825941E+21	4,126366E+22
-960	1,921908E+22	1,921913E+22	1,412952E+21	1,412772E+21	3,843821E+22	2,825724E+21	4,126393E+22
-959	1,921918E+22	1,922020E+22	1,412950E+21	1,412945E+21	3,843938E+22	2,825895E+21	4,126528E+22
-958	1,922067E+22	1,921969E+22	1,412692E+21	1,412913E+21	3,844036E+22	2,825604E+21	4,126597E+22
-957	1,922021E+22	1,922081E+22	1,412934E+21	1,412608E+21	3,844102E+22	2,825542E+21	4,126656E+22
-956	1,922075E+22	1,922092E+22	1,412759E+21	1,412902E+21	3,844167E+22	2,825661E+21	4,126733E+22
-955	1,922124E+22	1,922040E+22	1,412682E+21	1,412750E+21	3,844164E+22	2,825432E+21	4,126708E+22
-954	1,922006E+22	1,922134E+22	1,412954E+21	1,412704E+21	3,844140E+22	2,825659E+21	4,126706E+22
-953	1,922076E+22	1,922030E+22	1,412677E+21	1,413026E+21	3,844106E+22	2,825703E+21	4,126676E+22
-952	1,922036E+22	1,921971E+22	1,412831E+21	1,412759E+21	3,844007E+22	2,825591E+21	4,126566E+22
-951	1,921924E+22	1,922007E+22	1,413041E+21	1,412919E+21	3,843931E+22	2,825961E+21	4,126527E+22
-950	1,921978E+22	1,921868E+22	1,412818E+21	1,413094E+21	3,843846E+22	2,825912E+21	4,126437E+22
-949	1,921838E+22	1,921863E+22	1,413140E+21	1,412879E+21	3,843701E+22	2,826018E+21	4,126303E+22
-948	1,921763E+22	1,921829E+22	1,413117E+21	1,413218E+21	3,843593E+22	2,826335E+21	4,126226E+22
-947	1,921797E+22	1,921697E+22	1,413008E+21	1,413200E+21	3,843494E+22	2,826209E+21	4,126115E+22
-946	1,921661E+22	1,921758E+22	1,413326E+21	1,413030E+21	3,843419E+22	2,826356E+21	4,126055E+22
-945	1,921725E+22	1,921691E+22	1,413079E+21	1,413329E+21	3,843416E+22	2,826408E+21	4,126057E+22
-944	1,921744E+22	1,921658E+22	1,413094E+21	1,413057E+21	3,843402E+22	2,826151E+21	4,126017E+22
-943	1,921653E+22	1,921786E+22	1,413279E+21	1,413058E+21	3,843439E+22	2,826338E+21	4,126073E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-942	1,921791E+22	1,921739E+22	1,412942E+21	1,413253E+21	3,843530E+22	2,826195E+21	4,126150E+22
-941	1,921791E+22	1,921798E+22	1,413086E+21	1,412893E+21	3,843589E+22	2,825978E+21	4,126186E+22
-940	1,921805E+22	1,921883E+22	1,413078E+21	1,413042E+21	3,843688E+22	2,826120E+21	4,126300E+22
-939	1,921953E+22	1,921841E+22	1,412805E+21	1,413010E+21	3,843795E+22	2,825815E+21	4,126376E+22
-938	1,921887E+22	1,921959E+22	1,413060E+21	1,412738E+21	3,843846E+22	2,825798E+21	4,126426E+22
-937	1,921938E+22	1,921960E+22	1,412872E+21	1,413058E+21	3,843898E+22	2,825930E+21	4,126491E+22
-936	1,921984E+22	1,921901E+22	1,412786E+21	1,412890E+21	3,843885E+22	2,825676E+21	4,126453E+22
-935	1,921859E+22	1,921983E+22	1,413101E+21	1,412853E+21	3,843841E+22	2,825954E+21	4,126437E+22
-934	1,921932E+22	1,921887E+22	1,412845E+21	1,413141E+21	3,843819E+22	2,825986E+21	4,126417E+22
-933	1,921891E+22	1,921824E+22	1,413014E+21	1,412895E+21	3,843715E+22	2,825910E+21	4,126306E+22
-932	1,921758E+22	1,921840E+22	1,413210E+21	1,413075E+21	3,843598E+22	2,826285E+21	4,126226E+22
-931	1,921799E+22	1,921706E+22	1,412969E+21	1,413280E+21	3,843506E+22	2,826249E+21	4,126131E+22
-930	1,921661E+22	1,921698E+22	1,413295E+21	1,413075E+21	3,843360E+22	2,826370E+21	4,125997E+22
-929	1,921614E+22	1,921658E+22	1,413253E+21	1,413383E+21	3,843271E+22	2,826636E+21	4,125935E+22
-928	1,921663E+22	1,921537E+22	1,413123E+21	1,413309E+21	3,843200E+22	2,826432E+21	4,125843E+22
-927	1,921518E+22	1,921611E+22	1,413468E+21	1,413143E+21	3,843129E+22	2,826612E+21	4,125790E+22
-926	1,921577E+22	1,921574E+22	1,413222E+21	1,413436E+21	3,843151E+22	2,826658E+21	4,125817E+22
-925	1,921601E+22	1,921542E+22	1,413234E+21	1,413199E+21	3,843143E+22	2,826432E+21	4,125786E+22
-924	1,921516E+22	1,921647E+22	1,413402E+21	1,413196E+21	3,843163E+22	2,826599E+21	4,125823E+22
-923	1,921674E+22	1,921610E+22	1,413051E+21	1,413376E+21	3,843283E+22	2,826428E+21	4,125926E+22
-922	1,921682E+22	1,921672E+22	1,413202E+21	1,413003E+21	3,843354E+22	2,826205E+21	4,125975E+22
-921	1,921705E+22	1,921758E+22	1,413184E+21	1,413147E+21	3,843463E+22	2,826331E+21	4,126096E+22
-920	1,921835E+22	1,921727E+22	1,412894E+21	1,413111E+21	3,843562E+22	2,826005E+21	4,126162E+22
-919	1,921738E+22	1,921835E+22	1,413192E+21	1,412887E+21	3,843573E+22	2,826079E+21	4,126181E+22
-918	1,921786E+22	1,921838E+22	1,413025E+21	1,413191E+21	3,843625E+22	2,826216E+21	4,126246E+22
-917	1,921843E+22	1,921758E+22	1,412950E+21	1,413032E+21	3,843600E+22	2,825982E+21	4,126199E+22
-916	1,921713E+22	1,921809E+22	1,413257E+21	1,412982E+21	3,843522E+22	2,826240E+21	4,126146E+22
-915	1,921784E+22	1,921725E+22	1,412990E+21	1,413284E+21	3,843509E+22	2,826274E+21	4,126136E+22
-914	1,921727E+22	1,921667E+22	1,413161E+21	1,413071E+21	3,843393E+22	2,826232E+21	4,126017E+22
-913	1,921599E+22	1,921679E+22	1,413339E+21	1,413263E+21	3,843278E+22	2,826602E+21	4,125938E+22
-912	1,921645E+22	1,921549E+22	1,413089E+21	1,413435E+21	3,843193E+22	2,826524E+21	4,125846E+22
-911	1,921503E+22	1,921539E+22	1,413453E+21	1,413229E+21	3,843043E+22	2,826682E+21	4,125711E+22
-910	1,921464E+22	1,921516E+22	1,413425E+21	1,413485E+21	3,842980E+22	2,826910E+21	4,125671E+22
-909	1,921516E+22	1,921396E+22	1,413295E+21	1,413433E+21	3,842913E+22	2,826728E+21	4,125585E+22
-908	1,921358E+22	1,921455E+22	1,413611E+21	1,413284E+21	3,842813E+22	2,826895E+21	4,125502E+22
-907	1,921423E+22	1,921429E+22	1,413346E+21	1,413594E+21	3,842852E+22	2,826941E+21	4,125546E+22
-906	1,921463E+22	1,921402E+22	1,413354E+21	1,413355E+21	3,842865E+22	2,826710E+21	4,125536E+22
-905	1,921412E+22	1,921508E+22	1,413500E+21	1,413319E+21	3,842920E+22	2,826819E+21	4,125602E+22
-904	1,921576E+22	1,921489E+22	1,413141E+21	1,413446E+21	3,843065E+22	2,826587E+21	4,125724E+22
-903	1,921567E+22	1,921563E+22	1,413325E+21	1,413100E+21	3,843129E+22	2,826426E+21	4,125772E+22
-902	1,921567E+22	1,921664E+22	1,413322E+21	1,413237E+21	3,843231E+22	2,826559E+21	4,125887E+22
-901	1,921689E+22	1,921616E+22	1,413039E+21	1,413251E+21	3,843305E+22	2,826290E+21	4,125934E+22
-900	1,921587E+22	1,921682E+22	1,413326E+21	1,413038E+21	3,843269E+22	2,826364E+21	4,125906E+22
-899	1,921644E+22	1,921680E+22	1,413156E+21	1,413336E+21	3,843324E+22	2,826493E+21	4,125974E+22
-898	1,921708E+22	1,921597E+22	1,413090E+21	1,413182E+21	3,843305E+22	2,826272E+21	4,125932E+22
-897	1,921587E+22	1,921646E+22	1,413377E+21	1,413135E+21	3,843233E+22	2,826512E+21	4,125884E+22
-896	1,921639E+22	1,921577E+22	1,413103E+21	1,413429E+21	3,843216E+22	2,826532E+21	4,125869E+22
-895	1,921561E+22	1,921518E+22	1,413314E+21	1,413254E+21	3,843079E+22	2,826568E+21	4,125736E+22
-894	1,921432E+22	1,921538E+22	1,413513E+21	1,413400E+21	3,842970E+22	2,826914E+21	4,125661E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-893	1,921489E+22	1,921398E+22	1,413275E+21	1,413571E+21	3,842887E+22	2,826846E+21	4,125571E+22
-892	1,921341E+22	1,921364E+22	1,413626E+21	1,413353E+21	3,842705E+22	2,826978E+21	4,125403E+22
-891	1,921300E+22	1,921356E+22	1,413581E+21	1,413617E+21	3,842656E+22	2,827198E+21	4,125376E+22
-890	1,921350E+22	1,921245E+22	1,413438E+21	1,413598E+21	3,842595E+22	2,827036E+21	4,125299E+22
-889	1,921218E+22	1,921302E+22	1,413711E+21	1,413454E+21	3,842520E+22	2,827166E+21	4,125236E+22
-888	1,921302E+22	1,921294E+22	1,413433E+21	1,413721E+21	3,842596E+22	2,827155E+21	4,125311E+22
-887	1,921348E+22	1,921278E+22	1,413472E+21	1,413473E+21	3,842626E+22	2,826945E+21	4,125321E+22
-886	1,921305E+22	1,921407E+22	1,413637E+21	1,413382E+21	3,842712E+22	2,827019E+21	4,125414E+22
-885	1,921461E+22	1,921388E+22	1,413285E+21	1,413535E+21	3,842849E+22	2,826820E+21	4,125531E+22
-884	1,921418E+22	1,921434E+22	1,413455E+21	1,413229E+21	3,842852E+22	2,826683E+21	4,125520E+22
-883	1,921415E+22	1,921530E+22	1,413445E+21	1,413390E+21	3,842945E+22	2,826835E+21	4,125628E+22
-882	1,921545E+22	1,921467E+22	1,413167E+21	1,413415E+21	3,843012E+22	2,826582E+21	4,125670E+22
-881	1,921474E+22	1,921519E+22	1,413425E+21	1,413181E+21	3,842993E+22	2,826606E+21	4,125653E+22
-880	1,921533E+22	1,921530E+22	1,413257E+21	1,413438E+21	3,843063E+22	2,826695E+21	4,125733E+22
-879	1,921572E+22	1,921461E+22	1,413228E+21	1,413318E+21	3,843034E+22	2,826546E+21	4,125688E+22
-878	1,921432E+22	1,921527E+22	1,413534E+21	1,413259E+21	3,842960E+22	2,826793E+21	4,125639E+22
-877	1,921476E+22	1,921445E+22	1,413282E+21	1,413586E+21	3,842921E+22	2,826867E+21	4,125608E+22
-876	1,921384E+22	1,921351E+22	1,413491E+21	1,413419E+21	3,842735E+22	2,826910E+21	4,125426E+22
-875	1,921262E+22	1,921367E+22	1,413687E+21	1,413547E+21	3,842630E+22	2,827235E+21	4,125353E+22
-874	1,921324E+22	1,921224E+22	1,413452E+21	1,413726E+21	3,842548E+22	2,827178E+21	4,125266E+22
-873	1,921191E+22	1,921187E+22	1,413753E+21	1,413517E+21	3,842378E+22	2,827271E+21	4,125105E+22
-872	1,921144E+22	1,921199E+22	1,413687E+21	1,413770E+21	3,842343E+22	2,827457E+21	4,125089E+22
-871	1,921197E+22	1,921101E+22	1,413565E+21	1,413776E+21	3,842299E+22	2,827341E+21	4,125033E+22
-870	1,921088E+22	1,921177E+22	1,413845E+21	1,413567E+21	3,842265E+22	2,827411E+21	4,125006E+22
-869	1,921189E+22	1,921176E+22	1,413582E+21	1,413816E+21	3,842365E+22	2,827398E+21	4,125105E+22
-868	1,921224E+22	1,921148E+22	1,413606E+21	1,413561E+21	3,842372E+22	2,827167E+21	4,125089E+22
-867	1,921168E+22	1,921289E+22	1,413765E+21	1,413480E+21	3,842457E+22	2,827245E+21	4,125182E+22
-866	1,921312E+22	1,921268E+22	1,413412E+21	1,413673E+21	3,842580E+22	2,827085E+21	4,125289E+22
-865	1,921288E+22	1,921292E+22	1,413544E+21	1,413386E+21	3,842580E+22	2,826930E+21	4,125273E+22
-864	1,921296E+22	1,921390E+22	1,413531E+21	1,413515E+21	3,842685E+22	2,827046E+21	4,125390E+22
-863	1,921429E+22	1,921332E+22	1,413288E+21	1,413547E+21	3,842761E+22	2,826834E+21	4,125444E+22
-862	1,921361E+22	1,921398E+22	1,413562E+21	1,413271E+21	3,842759E+22	2,826833E+21	4,125442E+22
-861	1,921404E+22	1,921412E+22	1,413416E+21	1,413557E+21	3,842816E+22	2,826973E+21	4,125513E+22
-860	1,921403E+22	1,921317E+22	1,413386E+21	1,413477E+21	3,842720E+22	2,826863E+21	4,125406E+22
-859	1,921256E+22	1,921373E+22	1,413703E+21	1,413431E+21	3,842629E+22	2,827134E+21	4,125343E+22
-858	1,921301E+22	1,921276E+22	1,413463E+21	1,413761E+21	3,842577E+22	2,827224E+21	4,125300E+22
-857	1,921233E+22	1,921164E+22	1,413635E+21	1,413585E+21	3,842397E+22	2,827220E+21	4,125119E+22
-856	1,921113E+22	1,921193E+22	1,413816E+21	1,413680E+21	3,842306E+22	2,827496E+21	4,125055E+22
-855	1,921160E+22	1,921066E+22	1,413597E+21	1,413889E+21	3,842226E+22	2,827486E+21	4,124974E+22
-854	1,921031E+22	1,921050E+22	1,413891E+21	1,413659E+21	3,842081E+22	2,827550E+21	4,124836E+22
-853	1,921000E+22	1,921063E+22	1,413836E+21	1,413916E+21	3,842064E+22	2,827752E+21	4,124839E+22
-852	1,921049E+22	1,920954E+22	1,413711E+21	1,413910E+21	3,842003E+22	2,827620E+21	4,124765E+22
-851	1,920958E+22	1,921043E+22	1,413988E+21	1,413671E+21	3,842001E+22	2,827660E+21	4,124767E+22
-850	1,921061E+22	1,921046E+22	1,413736E+21	1,413920E+21	3,842107E+22	2,827656E+21	4,124873E+22
-849	1,921099E+22	1,921015E+22	1,413707E+21	1,413689E+21	3,842114E+22	2,827396E+21	4,124853E+22
-848	1,921033E+22	1,921161E+22	1,413849E+21	1,413607E+21	3,842194E+22	2,827456E+21	4,124940E+22
-847	1,921172E+22	1,921141E+22	1,413521E+21	1,413826E+21	3,842313E+22	2,827347E+21	4,125048E+22
-846	1,921172E+22	1,921172E+22	1,413661E+21	1,413491E+21	3,842343E+22	2,827152E+21	4,125059E+22
-845	1,921191E+22	1,921267E+22	1,413674E+21	1,413609E+21	3,842458E+22	2,827283E+21	4,125186E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-844	1,921297E+22	1,921197E+22	1,413435E+21	1,413654E+21	3,842494E+22	2,827089E+21	4,125203E+22
-843	1,921214E+22	1,921269E+22	1,413709E+21	1,413401E+21	3,842482E+22	2,827110E+21	4,125194E+22
-842	1,921237E+22	1,921273E+22	1,413579E+21	1,413725E+21	3,842510E+22	2,827304E+21	4,125241E+22
-841	1,921247E+22	1,921152E+22	1,413514E+21	1,413669E+21	3,842399E+22	2,827183E+21	4,125117E+22
-840	1,921103E+22	1,921204E+22	1,413831E+21	1,413589E+21	3,842306E+22	2,827420E+21	4,125048E+22
-839	1,921148E+22	1,921111E+22	1,413621E+21	1,413919E+21	3,842259E+22	2,827539E+21	4,125013E+22
-838	1,921087E+22	1,921009E+22	1,413796E+21	1,413708E+21	3,842096E+22	2,827504E+21	4,124847E+22
-837	1,920957E+22	1,921043E+22	1,413981E+21	1,413822E+21	3,842001E+22	2,827803E+21	4,124781E+22
-836	1,920979E+22	1,920905E+22	1,413753E+21	1,414061E+21	3,841884E+22	2,827814E+21	4,124665E+22
-835	1,920866E+22	1,920893E+22	1,414042E+21	1,413818E+21	3,841759E+22	2,827860E+21	4,124545E+22
-834	1,920853E+22	1,920912E+22	1,414000E+21	1,414058E+21	3,841765E+22	2,828058E+21	4,124571E+22
-833	1,920927E+22	1,920802E+22	1,413832E+21	1,414031E+21	3,841729E+22	2,827863E+21	4,124515E+22
-832	1,920836E+22	1,920909E+22	1,414093E+21	1,413765E+21	3,841745E+22	2,827858E+21	4,124531E+22
-831	1,920920E+22	1,920931E+22	1,413854E+21	1,414043E+21	3,841852E+22	2,827897E+21	4,124641E+22
-830	1,920963E+22	1,920908E+22	1,413817E+21	1,413804E+21	3,841870E+22	2,827621E+21	4,124632E+22
-829	1,920910E+22	1,921045E+22	1,413970E+21	1,413732E+21	3,841955E+22	2,827702E+21	4,124726E+22
-828	1,921039E+22	1,921008E+22	1,413648E+21	1,413951E+21	3,842047E+22	2,827599E+21	4,124807E+22
-827	1,921056E+22	1,921040E+22	1,413793E+21	1,413601E+21	3,842095E+22	2,827394E+21	4,124835E+22
-826	1,921069E+22	1,921135E+22	1,413825E+21	1,413734E+21	3,842204E+22	2,827558E+21	4,124959E+22
-825	1,921164E+22	1,921056E+22	1,413548E+21	1,413812E+21	3,842219E+22	2,827360E+21	4,124955E+22
-824	1,921067E+22	1,921124E+22	1,413818E+21	1,413567E+21	3,842191E+22	2,827385E+21	4,124930E+22
-823	1,921079E+22	1,921123E+22	1,413722E+21	1,413896E+21	3,842202E+22	2,827619E+21	4,124964E+22
-822	1,921103E+22	1,921004E+22	1,413666E+21	1,413801E+21	3,842107E+22	2,827467E+21	4,124853E+22
-821	1,920966E+22	1,921048E+22	1,414000E+21	1,413708E+21	3,842014E+22	2,827708E+21	4,124785E+22
-820	1,920973E+22	1,920946E+22	1,413796E+21	1,414052E+21	3,841919E+22	2,827848E+21	4,124703E+22
-819	1,920908E+22	1,920852E+22	1,413962E+21	1,413861E+21	3,841760E+22	2,827823E+21	4,124542E+22
-818	1,920779E+22	1,920881E+22	1,414154E+21	1,413999E+21	3,841660E+22	2,828153E+21	4,124475E+22
-817	1,920821E+22	1,920735E+22	1,413887E+21	1,414242E+21	3,841556E+22	2,828129E+21	4,124368E+22
-816	1,920729E+22	1,920734E+22	1,414160E+21	1,413960E+21	3,841463E+22	2,828120E+21	4,124275E+22
-815	1,920720E+22	1,920772E+22	1,414141E+21	1,414182E+21	3,841492E+22	2,828322E+21	4,124324E+22
-814	1,920802E+22	1,920683E+22	1,413964E+21	1,414128E+21	3,841485E+22	2,828092E+21	4,124295E+22
-813	1,920702E+22	1,920794E+22	1,414221E+21	1,413882E+21	3,841496E+22	2,828103E+21	4,124307E+22
-812	1,920757E+22	1,920801E+22	1,413984E+21	1,414184E+21	3,841558E+22	2,828168E+21	4,124375E+22
-811	1,920821E+22	1,920773E+22	1,413944E+21	1,413939E+21	3,841595E+22	2,827883E+21	4,124383E+22
-810	1,920790E+22	1,920906E+22	1,414109E+21	1,413861E+21	3,841696E+22	2,827970E+21	4,124493E+22
-809	1,920936E+22	1,920865E+22	1,413754E+21	1,414072E+21	3,841800E+22	2,827826E+21	4,124583E+22
-808	1,920946E+22	1,920909E+22	1,413885E+21	1,413712E+21	3,841855E+22	2,827597E+21	4,124614E+22
-807	1,920934E+22	1,921018E+22	1,413940E+21	1,413870E+21	3,841952E+22	2,827811E+21	4,124733E+22
-806	1,921028E+22	1,920938E+22	1,413671E+21	1,413942E+21	3,841966E+22	2,827613E+21	4,124727E+22
-805	1,920929E+22	1,920990E+22	1,413967E+21	1,413704E+21	3,841919E+22	2,827671E+21	4,124686E+22
-804	1,920914E+22	1,920970E+22	1,413891E+21	1,414030E+21	3,841884E+22	2,827920E+21	4,124676E+22
-803	1,920947E+22	1,920843E+22	1,413845E+21	1,413931E+21	3,841790E+22	2,827776E+21	4,124567E+22
-802	1,920802E+22	1,920881E+22	1,414186E+21	1,413865E+21	3,841683E+22	2,828050E+21	4,124488E+22
-801	1,920801E+22	1,920769E+22	1,413934E+21	1,414241E+21	3,841570E+22	2,828175E+21	4,124387E+22
-800	1,920740E+22	1,920676E+22	1,414082E+21	1,414051E+21	3,841416E+22	2,828133E+21	4,124229E+22
-799	1,920620E+22	1,920718E+22	1,414293E+21	1,414176E+21	3,841338E+22	2,828469E+21	4,124185E+22
-798	1,920689E+22	1,920590E+22	1,414031E+21	1,414366E+21	3,841279E+22	2,828397E+21	4,124119E+22
-797	1,920607E+22	1,920600E+22	1,414310E+21	1,414064E+21	3,841207E+22	2,828374E+21	4,124044E+22
-796	1,920561E+22	1,920640E+22	1,414295E+21	1,414288E+21	3,841201E+22	2,828583E+21	4,124059E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-795	1,920642E+22	1,920558E+22	1,414106E+21	1,414254E+21	3,841200E+22	2,828360E+21	4,124036E+22
-794	1,920551E+22	1,920657E+22	1,414361E+21	1,414035E+21	3,841208E+22	2,828396E+21	4,124047E+22
-793	1,920624E+22	1,920652E+22	1,414085E+21	1,414334E+21	3,841277E+22	2,828418E+21	4,124118E+22
-792	1,920716E+22	1,920632E+22	1,414031E+21	1,414063E+21	3,841348E+22	2,828094E+21	4,124158E+22
-791	1,920691E+22	1,920779E+22	1,414219E+21	1,413968E+21	3,841469E+22	2,828187E+21	4,124288E+22
-790	1,920833E+22	1,920758E+22	1,413869E+21	1,414164E+21	3,841592E+22	2,828034E+21	4,124395E+22
-789	1,920826E+22	1,920802E+22	1,414004E+21	1,413831E+21	3,841628E+22	2,827835E+21	4,124411E+22
-788	1,920769E+22	1,920888E+22	1,414087E+21	1,414005E+21	3,841657E+22	2,828092E+21	4,124466E+22
-787	1,920870E+22	1,920797E+22	1,413833E+21	1,414075E+21	3,841667E+22	2,827909E+21	4,124458E+22
-786	1,920779E+22	1,920830E+22	1,414149E+21	1,413848E+21	3,841609E+22	2,827997E+21	4,124409E+22
-785	1,920761E+22	1,920795E+22	1,414041E+21	1,414177E+21	3,841556E+22	2,828217E+21	4,124378E+22
-784	1,920789E+22	1,920672E+22	1,413974E+21	1,414095E+21	3,841460E+22	2,828069E+21	4,124267E+22
-783	1,920631E+22	1,920718E+22	1,414316E+21	1,414051E+21	3,841349E+22	2,828367E+21	4,124186E+22
-782	1,920645E+22	1,920615E+22	1,414070E+21	1,414412E+21	3,841261E+22	2,828481E+21	4,124109E+22
-781	1,920599E+22	1,920525E+22	1,414225E+21	1,414207E+21	3,841123E+22	2,828431E+21	4,123967E+22
-780	1,920462E+22	1,920566E+22	1,414459E+21	1,414303E+21	3,841027E+22	2,828762E+21	4,123904E+22
-779	1,920542E+22	1,920448E+22	1,414210E+21	1,414476E+21	3,840990E+22	2,828686E+21	4,123859E+22
-778	1,920452E+22	1,920460E+22	1,414484E+21	1,414203E+21	3,840912E+22	2,828687E+21	4,123781E+22
-777	1,920398E+22	1,920489E+22	1,414416E+21	1,414446E+21	3,840887E+22	2,828863E+21	4,123773E+22
-776	1,920493E+22	1,920404E+22	1,414205E+21	1,414413E+21	3,840897E+22	2,828618E+21	4,123759E+22
-775	1,920424E+22	1,920513E+22	1,414463E+21	1,414175E+21	3,840937E+22	2,828638E+21	4,123801E+22
-774	1,920531E+22	1,920527E+22	1,414191E+21	1,414425E+21	3,841058E+22	2,828616E+21	4,123919E+22
-773	1,920625E+22	1,920521E+22	1,414142E+21	1,414138E+21	3,841147E+22	2,828281E+21	4,123975E+22
-772	1,920557E+22	1,920673E+22	1,414347E+21	1,414059E+21	3,841230E+22	2,828406E+21	4,124071E+22
-771	1,920689E+22	1,920653E+22	1,414012E+21	1,414274E+21	3,841341E+22	2,828286E+21	4,124170E+22
-770	1,920676E+22	1,920674E+22	1,414160E+21	1,413987E+21	3,841351E+22	2,828146E+21	4,124165E+22
-769	1,920618E+22	1,920733E+22	1,414216E+21	1,414159E+21	3,841351E+22	2,828375E+21	4,124189E+22
-768	1,920731E+22	1,920632E+22	1,413957E+21	1,414226E+21	3,841363E+22	2,828184E+21	4,124181E+22
-767	1,920641E+22	1,920666E+22	1,414284E+21	1,414002E+21	3,841307E+22	2,828287E+21	4,124135E+22
-766	1,920621E+22	1,920642E+22	1,414175E+21	1,414327E+21	3,841263E+22	2,828501E+21	4,124113E+22
-765	1,920636E+22	1,920521E+22	1,414108E+21	1,414264E+21	3,841158E+22	2,828372E+21	4,123995E+22
-764	1,920452E+22	1,920557E+22	1,414472E+21	1,414219E+21	3,841009E+22	2,828691E+21	4,123878E+22
-763	1,920484E+22	1,920460E+22	1,414252E+21	1,414553E+21	3,840944E+22	2,828805E+21	4,123824E+22
-762	1,920449E+22	1,920367E+22	1,414418E+21	1,414351E+21	3,840817E+22	2,828769E+21	4,123694E+22
-761	1,920304E+22	1,920403E+22	1,414618E+21	1,414431E+21	3,840707E+22	2,829048E+21	4,123611E+22
-760	1,920382E+22	1,920295E+22	1,414344E+21	1,414619E+21	3,840676E+22	2,828963E+21	4,123573E+22
-759	1,920290E+22	1,920310E+22	1,414605E+21	1,414361E+21	3,840601E+22	2,828967E+21	4,123497E+22
-758	1,920258E+22	1,920348E+22	1,414530E+21	1,414583E+21	3,840606E+22	2,829113E+21	4,123518E+22
-757	1,920377E+22	1,920274E+22	1,414310E+21	1,414531E+21	3,840651E+22	2,828841E+21	4,123535E+22
-756	1,920300E+22	1,920385E+22	1,414587E+21	1,414270E+21	3,840685E+22	2,828857E+21	4,123571E+22
-755	1,920418E+22	1,920417E+22	1,414340E+21	1,414507E+21	3,840835E+22	2,828847E+21	4,123720E+22
-754	1,920499E+22	1,920413E+22	1,414288E+21	1,414265E+21	3,840912E+22	2,828553E+21	4,123768E+22
-753	1,920409E+22	1,920543E+22	1,414460E+21	1,414204E+21	3,840952E+22	2,828664E+21	4,123818E+22
-752	1,920545E+22	1,920508E+22	1,414120E+21	1,414429E+21	3,841053E+22	2,828549E+21	4,123908E+22
-751	1,920542E+22	1,920523E+22	1,414277E+21	1,414140E+21	3,841065E+22	2,828417E+21	4,123906E+22
-750	1,920502E+22	1,920586E+22	1,414342E+21	1,414281E+21	3,841088E+22	2,828623E+21	4,123950E+22
-749	1,920607E+22	1,920491E+22	1,414087E+21	1,414346E+21	3,841098E+22	2,828433E+21	4,123941E+22
-748	1,920476E+22	1,920521E+22	1,414428E+21	1,414143E+21	3,840998E+22	2,828571E+21	4,123855E+22
-747	1,920454E+22	1,920499E+22	1,414344E+21	1,414474E+21	3,840952E+22	2,828819E+21	4,123834E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-746	1,920470E+22	1,920367E+22	1,414290E+21	1,414445E+21	3,840837E+22	2,828735E+21	4,123711E+22
-745	1,920289E+22	1,920386E+22	1,414629E+21	1,414382E+21	3,840674E+22	2,829011E+21	4,123575E+22
-744	1,920333E+22	1,920287E+22	1,414414E+21	1,414699E+21	3,840620E+22	2,829112E+21	4,123531E+22
-743	1,920295E+22	1,920207E+22	1,414576E+21	1,414501E+21	3,840502E+22	2,829078E+21	4,123410E+22
-742	1,920151E+22	1,920255E+22	1,414752E+21	1,414576E+21	3,840406E+22	2,829328E+21	4,123338E+22
-741	1,920222E+22	1,920149E+22	1,414464E+21	1,414770E+21	3,840371E+22	2,829234E+21	4,123295E+22
-740	1,920124E+22	1,920160E+22	1,414733E+21	1,414505E+21	3,840284E+22	2,829238E+21	4,123208E+22
-739	1,920125E+22	1,920210E+22	1,414681E+21	1,414689E+21	3,840336E+22	2,829371E+21	4,123273E+22
-738	1,920261E+22	1,920147E+22	1,414465E+21	1,414646E+21	3,840408E+22	2,829111E+21	4,123319E+22
-737	1,920178E+22	1,920256E+22	1,414701E+21	1,414378E+21	3,840435E+22	2,829079E+21	4,123343E+22
-736	1,920290E+22	1,920294E+22	1,414445E+21	1,414635E+21	3,840584E+22	2,829079E+21	4,123492E+22
-735	1,920364E+22	1,920291E+22	1,414388E+21	1,414414E+21	3,840655E+22	2,828801E+21	4,123535E+22
-734	1,920288E+22	1,920415E+22	1,414561E+21	1,414338E+21	3,840703E+22	2,828900E+21	4,123593E+22
-733	1,920428E+22	1,920379E+22	1,414230E+21	1,414542E+21	3,840806E+22	2,828772E+21	4,123684E+22
-732	1,920407E+22	1,920382E+22	1,414419E+21	1,414251E+21	3,840789E+22	2,828671E+21	4,123656E+22
-731	1,920365E+22	1,920452E+22	1,414517E+21	1,414389E+21	3,840817E+22	2,828906E+21	4,123707E+22
-730	1,920451E+22	1,920354E+22	1,414261E+21	1,414515E+21	3,840804E+22	2,828776E+21	4,123682E+22
-729	1,920300E+22	1,920355E+22	1,414570E+21	1,414323E+21	3,840656E+22	2,828893E+21	4,123545E+22
-728	1,920288E+22	1,920324E+22	1,414493E+21	1,414655E+21	3,840613E+22	2,829148E+21	4,123527E+22
-727	1,920316E+22	1,920195E+22	1,414445E+21	1,414610E+21	3,840511E+22	2,829055E+21	4,123416E+22
-726	1,920148E+22	1,920222E+22	1,414786E+21	1,414516E+21	3,840369E+22	2,829302E+21	4,123300E+22
-725	1,920181E+22	1,920139E+22	1,414562E+21	1,414823E+21	3,840320E+22	2,829385E+21	4,123258E+22
-724	1,920110E+22	1,920057E+22	1,414729E+21	1,414650E+21	3,840167E+22	2,829379E+21	4,123105E+22
-723	1,919976E+22	1,920109E+22	1,414917E+21	1,414720E+21	3,840085E+22	2,829636E+21	4,123049E+22
-722	1,920065E+22	1,920002E+22	1,414622E+21	1,414937E+21	3,840067E+22	2,829559E+21	4,123023E+22
-721	1,919984E+22	1,920001E+22	1,414851E+21	1,414643E+21	3,839984E+22	2,829494E+21	4,122934E+22
-720	1,920013E+22	1,920062E+22	1,414804E+21	1,414810E+21	3,840076E+22	2,829614E+21	4,123037E+22
-719	1,920147E+22	1,920022E+22	1,414579E+21	1,414768E+21	3,840170E+22	2,829347E+21	4,123104E+22
-718	1,920065E+22	1,920144E+22	1,414798E+21	1,414504E+21	3,840209E+22	2,829302E+21	4,123139E+22
-717	1,920164E+22	1,920182E+22	1,414541E+21	1,414751E+21	3,840346E+22	2,829292E+21	4,123275E+22
-716	1,920221E+22	1,920166E+22	1,414509E+21	1,414535E+21	3,840387E+22	2,829043E+21	4,123292E+22
-715	1,920162E+22	1,920289E+22	1,414719E+21	1,414432E+21	3,840451E+22	2,829151E+21	4,123366E+22
-714	1,920298E+22	1,920251E+22	1,414400E+21	1,414661E+21	3,840549E+22	2,829062E+21	4,123455E+22
-713	1,920260E+22	1,920236E+22	1,414554E+21	1,414386E+21	3,840496E+22	2,828940E+21	4,123390E+22
-712	1,920213E+22	1,920295E+22	1,414652E+21	1,414552E+21	3,840508E+22	2,829204E+21	4,123428E+22
-711	1,920289E+22	1,920197E+22	1,414396E+21	1,414698E+21	3,840486E+22	2,829094E+21	4,123395E+22
-710	1,920158E+22	1,920195E+22	1,414695E+21	1,414497E+21	3,840353E+22	2,829193E+21	4,123272E+22
-709	1,920146E+22	1,920167E+22	1,414631E+21	1,414790E+21	3,840313E+22	2,829421E+21	4,123255E+22
-708	1,920155E+22	1,920038E+22	1,414616E+21	1,414747E+21	3,840193E+22	2,829363E+21	4,123130E+22
-707	1,919985E+22	1,920074E+22	1,414979E+21	1,414645E+21	3,840059E+22	2,829624E+21	4,123021E+22
-706	1,919999E+22	1,919991E+22	1,414745E+21	1,414999E+21	3,839990E+22	2,829744E+21	4,122964E+22
-705	1,919923E+22	1,919881E+22	1,414869E+21	1,414831E+21	3,839804E+22	2,829700E+21	4,122774E+22
-704	1,919821E+22	1,919928E+22	1,415050E+21	1,414887E+21	3,839750E+22	2,829938E+21	4,122743E+22
-703	1,919934E+22	1,919843E+22	1,414752E+21	1,415078E+21	3,839777E+22	2,829830E+21	4,122760E+22
-702	1,919881E+22	1,919863E+22	1,414960E+21	1,414756E+21	3,839744E+22	2,829716E+21	4,122716E+22
-701	1,919901E+22	1,919951E+22	1,414908E+21	1,414900E+21	3,839852E+22	2,829808E+21	4,122833E+22
-700	1,920004E+22	1,919917E+22	1,414700E+21	1,414878E+21	3,839921E+22	2,829577E+21	4,122879E+22
-699	1,919926E+22	1,920038E+22	1,414944E+21	1,414609E+21	3,839964E+22	2,829553E+21	4,122920E+22
-698	1,920025E+22	1,920068E+22	1,414693E+21	1,414880E+21	3,840094E+22	2,829572E+21	4,123051E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-697	1,920082E+22	1,920020E+22	1,414636E+21	1,414657E+21	3,840102E+22	2,829293E+21	4,123032E+22
-696	1,920040E+22	1,920135E+22	1,414854E+21	1,414564E+21	3,840175E+22	2,829419E+21	4,123117E+22
-695	1,920164E+22	1,920107E+22	1,414527E+21	1,414814E+21	3,840271E+22	2,829341E+21	4,123205E+22
-694	1,920123E+22	1,920089E+22	1,414658E+21	1,414559E+21	3,840212E+22	2,829217E+21	4,123134E+22
-693	1,920068E+22	1,920148E+22	1,414759E+21	1,414706E+21	3,840216E+22	2,829466E+21	4,123163E+22
-692	1,920131E+22	1,920044E+22	1,414542E+21	1,414848E+21	3,840175E+22	2,829390E+21	4,123114E+22
-691	1,920014E+22	1,920048E+22	1,414884E+21	1,414617E+21	3,840061E+22	2,829501E+21	4,123011E+22
-690	1,919989E+22	1,920024E+22	1,414831E+21	1,414925E+21	3,840013E+22	2,829757E+21	4,122988E+22
-689	1,919971E+22	1,919873E+22	1,414782E+21	1,414903E+21	3,839844E+22	2,829685E+21	4,122813E+22
-688	1,919806E+22	1,919897E+22	1,415134E+21	1,414827E+21	3,839703E+22	2,829961E+21	4,122699E+22
-687	1,919822E+22	1,919818E+22	1,414887E+21	1,415182E+21	3,839640E+22	2,830070E+21	4,122647E+22
-686	1,919783E+22	1,919712E+22	1,414983E+21	1,414999E+21	3,839495E+22	2,829982E+21	4,122493E+22
-685	1,919701E+22	1,919777E+22	1,415162E+21	1,415000E+21	3,839479E+22	2,830162E+21	4,122495E+22
-684	1,919805E+22	1,919714E+22	1,414896E+21	1,415185E+21	3,839519E+22	2,830081E+21	4,122527E+22
-683	1,919755E+22	1,919758E+22	1,415116E+21	1,414855E+21	3,839512E+22	2,829971E+21	4,122509E+22
-682	1,919754E+22	1,919848E+22	1,415060E+21	1,415031E+21	3,839602E+22	2,830091E+21	4,122611E+22
-681	1,919846E+22	1,919783E+22	1,414820E+21	1,415015E+21	3,839628E+22	2,829835E+21	4,122612E+22
-680	1,919796E+22	1,919884E+22	1,415066E+21	1,414746E+21	3,839680E+22	2,829811E+21	4,122661E+22
-679	1,919899E+22	1,919924E+22	1,414816E+21	1,415000E+21	3,839822E+22	2,829816E+21	4,122804E+22
-678	1,919975E+22	1,919881E+22	1,414734E+21	1,414786E+21	3,839856E+22	2,829519E+21	4,122808E+22
-677	1,919921E+22	1,920004E+22	1,414944E+21	1,414684E+21	3,839925E+22	2,829628E+21	4,122888E+22
-676	1,920015E+22	1,919980E+22	1,414651E+21	1,414959E+21	3,839995E+22	2,829610E+21	4,122956E+22
-675	1,919983E+22	1,919960E+22	1,414810E+21	1,414694E+21	3,839943E+22	2,829505E+21	4,122893E+22
-674	1,919921E+22	1,920014E+22	1,414929E+21	1,414848E+21	3,839935E+22	2,829778E+21	4,122913E+22
-673	1,919972E+22	1,919881E+22	1,414709E+21	1,414984E+21	3,839853E+22	2,829693E+21	4,122822E+22
-672	1,919861E+22	1,919873E+22	1,415065E+21	1,414772E+21	3,839734E+22	2,829837E+21	4,122718E+22
-671	1,919811E+22	1,919860E+22	1,415000E+21	1,415096E+21	3,839671E+22	2,830096E+21	4,122680E+22
-670	1,919798E+22	1,919699E+22	1,414915E+21	1,415102E+21	3,839497E+22	2,830017E+21	4,122499E+22
-669	1,919641E+22	1,919720E+22	1,415251E+21	1,414994E+21	3,839362E+22	2,830244E+21	4,122386E+22
-668	1,919663E+22	1,919652E+22	1,415035E+21	1,415330E+21	3,839315E+22	2,830365E+21	4,122352E+22
-667	1,919651E+22	1,919571E+22	1,415152E+21	1,415105E+21	3,839222E+22	2,830257E+21	4,122248E+22
-666	1,919568E+22	1,919659E+22	1,415330E+21	1,415113E+21	3,839227E+22	2,830443E+21	4,122271E+22
-665	1,919648E+22	1,919583E+22	1,415039E+21	1,415307E+21	3,839231E+22	2,830346E+21	4,122265E+22
-664	1,919605E+22	1,919619E+22	1,415247E+21	1,415005E+21	3,839225E+22	2,830252E+21	4,122250E+22
-663	1,919605E+22	1,919712E+22	1,415177E+21	1,415172E+21	3,839317E+22	2,830349E+21	4,122352E+22
-662	1,919725E+22	1,919639E+22	1,414908E+21	1,415154E+21	3,839364E+22	2,830062E+21	4,122370E+22
-661	1,919693E+22	1,919744E+22	1,415149E+21	1,414845E+21	3,839437E+22	2,829995E+21	4,122437E+22
-660	1,919783E+22	1,919798E+22	1,414939E+21	1,415106E+21	3,839581E+22	2,830044E+21	4,122586E+22
-659	1,919855E+22	1,919772E+22	1,414873E+21	1,414898E+21	3,839627E+22	2,829771E+21	4,122604E+22
-658	1,919780E+22	1,919892E+22	1,415085E+21	1,414829E+21	3,839673E+22	2,829915E+21	4,122664E+22
-657	1,919856E+22	1,919832E+22	1,414792E+21	1,415106E+21	3,839688E+22	2,829898E+21	4,122677E+22
-656	1,919843E+22	1,919796E+22	1,414967E+21	1,414847E+21	3,839639E+22	2,829813E+21	4,122620E+22
-655	1,919770E+22	1,919856E+22	1,415095E+21	1,414981E+21	3,839626E+22	2,830076E+21	4,122634E+22
-654	1,919824E+22	1,919719E+22	1,414854E+21	1,415141E+21	3,839543E+22	2,829994E+21	4,122543E+22
-653	1,919698E+22	1,919710E+22	1,415194E+21	1,414927E+21	3,839408E+22	2,830121E+21	4,122420E+22
-652	1,919626E+22	1,919697E+22	1,415153E+21	1,415270E+21	3,839323E+22	2,830423E+21	4,122365E+22
-651	1,919633E+22	1,919543E+22	1,415081E+21	1,415264E+21	3,839176E+22	2,830345E+21	4,122210E+22
-650	1,919487E+22	1,919568E+22	1,415413E+21	1,415144E+21	3,839055E+22	2,830558E+21	4,122111E+22
-649	1,919510E+22	1,919488E+22	1,415199E+21	1,415462E+21	3,838998E+22	2,830661E+21	4,122064E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-648	1,919517E+22	1,919414E+22	1,415311E+21	1,415247E+21	3,838931E+22	2,830558E+21	4,121987E+22
-647	1,919411E+22	1,919522E+22	1,415471E+21	1,415254E+21	3,838934E+22	2,830725E+21	4,122006E+22
-646	1,919502E+22	1,919443E+22	1,415141E+21	1,415469E+21	3,838944E+22	2,830611E+21	4,122005E+22
-645	1,919473E+22	1,919473E+22	1,415331E+21	1,415131E+21	3,838946E+22	2,830463E+21	4,121992E+22
-644	1,919476E+22	1,919577E+22	1,415295E+21	1,415278E+21	3,839053E+22	2,830573E+21	4,122110E+22
-643	1,919617E+22	1,919523E+22	1,415047E+21	1,415234E+21	3,839140E+22	2,830282E+21	4,122168E+22
-642	1,919577E+22	1,919639E+22	1,415284E+21	1,414945E+21	3,839217E+22	2,830229E+21	4,122239E+22
-641	1,919638E+22	1,919674E+22	1,415071E+21	1,415227E+21	3,839312E+22	2,830298E+21	4,122342E+22
-640	1,919717E+22	1,919634E+22	1,415007E+21	1,415052E+21	3,839350E+22	2,830059E+21	4,122356E+22
-639	1,919633E+22	1,919753E+22	1,415220E+21	1,414976E+21	3,839386E+22	2,830196E+21	4,122406E+22
-638	1,919723E+22	1,919679E+22	1,414914E+21	1,415256E+21	3,839402E+22	2,830170E+21	4,122419E+22
-637	1,919713E+22	1,919638E+22	1,415092E+21	1,414978E+21	3,839351E+22	2,830070E+21	4,122358E+22
-636	1,919614E+22	1,919706E+22	1,415257E+21	1,415126E+21	3,839320E+22	2,830382E+21	4,122358E+22
-635	1,919656E+22	1,919577E+22	1,415028E+21	1,415298E+21	3,839233E+22	2,830326E+21	4,122266E+22
-634	1,919522E+22	1,919557E+22	1,415357E+21	1,415109E+21	3,839078E+22	2,830466E+21	4,122125E+22
-633	1,919443E+22	1,919511E+22	1,415318E+21	1,415436E+21	3,838954E+22	2,830754E+21	4,122029E+22
-632	1,919481E+22	1,919357E+22	1,415250E+21	1,415423E+21	3,838838E+22	2,830673E+21	4,121905E+22
-631	1,919339E+22	1,919407E+22	1,415570E+21	1,415279E+21	3,838746E+22	2,830849E+21	4,121831E+22
-630	1,919369E+22	1,919336E+22	1,415332E+21	1,415609E+21	3,838705E+22	2,830941E+21	4,121799E+22
-629	1,919371E+22	1,919275E+22	1,415418E+21	1,415383E+21	3,838646E+22	2,830801E+21	4,121726E+22
-628	1,919255E+22	1,919391E+22	1,415599E+21	1,415388E+21	3,838646E+22	2,830986E+21	4,121745E+22
-627	1,919363E+22	1,919322E+22	1,415280E+21	1,415579E+21	3,838685E+22	2,830859E+21	4,121771E+22
-626	1,919348E+22	1,919353E+22	1,415463E+21	1,415236E+21	3,838701E+22	2,830699E+21	4,121771E+22
-625	1,919345E+22	1,919438E+22	1,415437E+21	1,415376E+21	3,838783E+22	2,830813E+21	4,121864E+22
-624	1,919498E+22	1,919391E+22	1,415186E+21	1,415364E+21	3,838889E+22	2,830550E+21	4,121944E+22
-623	1,919438E+22	1,919518E+22	1,415402E+21	1,415090E+21	3,838956E+22	2,830492E+21	4,122005E+22
-622	1,919506E+22	1,919536E+22	1,415170E+21	1,415395E+21	3,839042E+22	2,830565E+21	4,122098E+22
-621	1,919593E+22	1,919487E+22	1,415098E+21	1,415190E+21	3,839080E+22	2,830288E+21	4,122109E+22
-620	1,919501E+22	1,919612E+22	1,415357E+21	1,415096E+21	3,839113E+22	2,830453E+21	4,122159E+22
-619	1,919594E+22	1,919551E+22	1,415081E+21	1,415360E+21	3,839145E+22	2,830441E+21	4,122189E+22
-618	1,919561E+22	1,919507E+22	1,415258E+21	1,415114E+21	3,839069E+22	2,830372E+21	4,122106E+22
-617	1,919426E+22	1,919545E+22	1,415427E+21	1,415287E+21	3,838971E+22	2,830714E+21	4,122043E+22
-616	1,919481E+22	1,919400E+22	1,415195E+21	1,415488E+21	3,838881E+22	2,830683E+21	4,121949E+22
-615	1,919347E+22	1,919379E+22	1,415509E+21	1,415282E+21	3,838725E+22	2,830791E+21	4,121804E+22
-614	1,919296E+22	1,919329E+22	1,415455E+21	1,415602E+21	3,838625E+22	2,831056E+21	4,121731E+22
-613	1,919347E+22	1,919189E+22	1,415381E+21	1,415557E+21	3,838536E+22	2,830938E+21	4,121629E+22
-612	1,919187E+22	1,919266E+22	1,415726E+21	1,415416E+21	3,838453E+22	2,831142E+21	4,121567E+22
-611	1,919211E+22	1,919215E+22	1,415496E+21	1,415743E+21	3,838426E+22	2,831239E+21	4,121550E+22
-610	1,919209E+22	1,919148E+22	1,415564E+21	1,415528E+21	3,838357E+22	2,831093E+21	4,121467E+22
-609	1,919091E+22	1,919236E+22	1,415747E+21	1,415514E+21	3,838326E+22	2,831261E+21	4,121452E+22
-608	1,919230E+22	1,919168E+22	1,415426E+21	1,415700E+21	3,838398E+22	2,831126E+21	4,121511E+22
-607	1,919219E+22	1,919217E+22	1,415591E+21	1,415349E+21	3,838436E+22	2,830940E+21	4,121530E+22
-606	1,919227E+22	1,919303E+22	1,415539E+21	1,415515E+21	3,838530E+22	2,831054E+21	4,121635E+22
-605	1,919376E+22	1,919265E+22	1,415267E+21	1,415502E+21	3,838642E+22	2,830768E+21	4,121718E+22
-604	1,919310E+22	1,919398E+22	1,415506E+21	1,415231E+21	3,838708E+22	2,830737E+21	4,121781E+22
-603	1,919386E+22	1,919423E+22	1,415304E+21	1,415503E+21	3,838809E+22	2,830807E+21	4,121889E+22
-602	1,919472E+22	1,919369E+22	1,415239E+21	1,415300E+21	3,838842E+22	2,830539E+21	4,121896E+22
-601	1,919356E+22	1,919463E+22	1,415528E+21	1,415208E+21	3,838819E+22	2,830736E+21	4,121892E+22
-600	1,919436E+22	1,919400E+22	1,415257E+21	1,415509E+21	3,838836E+22	2,830766E+21	4,121913E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-599	1,919380E+22	1,919352E+22	1,415414E+21	1,415296E+21	3,838733E+22	2,830709E+21	4,121803E+22
-598	1,919257E+22	1,919359E+22	1,415562E+21	1,415486E+21	3,838616E+22	2,831048E+21	4,121721E+22
-597	1,919328E+22	1,919214E+22	1,415317E+21	1,415655E+21	3,838542E+22	2,830972E+21	4,121639E+22
-596	1,919200E+22	1,919211E+22	1,415657E+21	1,415426E+21	3,838412E+22	2,831082E+21	4,121520E+22
-595	1,919156E+22	1,919190E+22	1,415629E+21	1,415718E+21	3,838345E+22	2,831347E+21	4,121480E+22
-594	1,919190E+22	1,919064E+22	1,415547E+21	1,415693E+21	3,838254E+22	2,831240E+21	4,121378E+22
-593	1,919002E+22	1,919117E+22	1,415896E+21	1,415565E+21	3,838118E+22	2,831462E+21	4,121264E+22
-592	1,919041E+22	1,919061E+22	1,415661E+21	1,415900E+21	3,838102E+22	2,831562E+21	4,121258E+22
-591	1,919047E+22	1,918996E+22	1,415703E+21	1,415677E+21	3,838043E+22	2,831379E+21	4,121181E+22
-590	1,918963E+22	1,919071E+22	1,415860E+21	1,415658E+21	3,838033E+22	2,831517E+21	4,121185E+22
-589	1,919120E+22	1,919021E+22	1,415521E+21	1,415822E+21	3,838140E+22	2,831343E+21	4,121275E+22
-588	1,919100E+22	1,919098E+22	1,415693E+21	1,415480E+21	3,838197E+22	2,831173E+21	4,121315E+22
-587	1,919109E+22	1,919202E+22	1,415658E+21	1,415639E+21	3,838311E+22	2,831296E+21	4,121441E+22
-586	1,919254E+22	1,919158E+22	1,415385E+21	1,415620E+21	3,838412E+22	2,831005E+21	4,121512E+22
-585	1,919172E+22	1,919261E+22	1,415652E+21	1,415337E+21	3,838434E+22	2,830989E+21	4,121533E+22
-584	1,919258E+22	1,919285E+22	1,415467E+21	1,415603E+21	3,838543E+22	2,831070E+21	4,121650E+22
-583	1,919323E+22	1,919233E+22	1,415396E+21	1,415422E+21	3,838556E+22	2,830818E+21	4,121638E+22
-582	1,919201E+22	1,919306E+22	1,415663E+21	1,415375E+21	3,838507E+22	2,831038E+21	4,121611E+22
-581	1,919275E+22	1,919236E+22	1,415374E+21	1,415682E+21	3,838510E+22	2,831056E+21	4,121616E+22
-580	1,919217E+22	1,919188E+22	1,415545E+21	1,415475E+21	3,838405E+22	2,831020E+21	4,121507E+22
-579	1,919112E+22	1,919204E+22	1,415714E+21	1,415632E+21	3,838316E+22	2,831346E+21	4,121451E+22
-578	1,919185E+22	1,919065E+22	1,415480E+21	1,415790E+21	3,838250E+22	2,831270E+21	4,121377E+22
-577	1,919038E+22	1,919049E+22	1,415844E+21	1,415567E+21	3,838087E+22	2,831411E+21	4,121228E+22
-576	1,918984E+22	1,919038E+22	1,415818E+21	1,415876E+21	3,838023E+22	2,831695E+21	4,121192E+22
-575	1,919001E+22	1,918913E+22	1,415713E+21	1,415876E+21	3,837914E+22	2,831589E+21	4,121072E+22
-574	1,918835E+22	1,918936E+22	1,416028E+21	1,415752E+21	3,837770E+22	2,831780E+21	4,120948E+22
-573	1,918897E+22	1,918886E+22	1,415771E+21	1,416041E+21	3,837783E+22	2,831812E+21	4,120964E+22
-572	1,918920E+22	1,918846E+22	1,415819E+21	1,415799E+21	3,837766E+22	2,831618E+21	4,120928E+22
-571	1,918851E+22	1,918950E+22	1,415988E+21	1,415755E+21	3,837801E+22	2,831743E+21	4,120976E+22
-570	1,918999E+22	1,918922E+22	1,415643E+21	1,415930E+21	3,837921E+22	2,831573E+21	4,121078E+22
-569	1,918961E+22	1,918977E+22	1,415824E+21	1,415600E+21	3,837938E+22	2,831424E+21	4,121080E+22
-568	1,918976E+22	1,919080E+22	1,415799E+21	1,415752E+21	3,838057E+22	2,831551E+21	4,121212E+22
-567	1,919117E+22	1,919037E+22	1,415519E+21	1,415735E+21	3,838153E+22	2,831254E+21	4,121279E+22
-566	1,919051E+22	1,919109E+22	1,415777E+21	1,415467E+21	3,838160E+22	2,831244E+21	4,121285E+22
-565	1,919127E+22	1,919139E+22	1,415585E+21	1,415730E+21	3,838266E+22	2,831315E+21	4,121398E+22
-564	1,919172E+22	1,919095E+22	1,415520E+21	1,415588E+21	3,838268E+22	2,831108E+21	4,121379E+22
-563	1,919051E+22	1,919164E+22	1,415798E+21	1,415544E+21	3,838215E+22	2,831342E+21	4,121349E+22
-562	1,919124E+22	1,919086E+22	1,415513E+21	1,415842E+21	3,838210E+22	2,831354E+21	4,121345E+22
-561	1,919060E+22	1,919013E+22	1,415709E+21	1,415621E+21	3,838073E+22	2,831330E+21	4,121206E+22
-560	1,918964E+22	1,919041E+22	1,415897E+21	1,415762E+21	3,838005E+22	2,831659E+21	4,121171E+22
-559	1,919016E+22	1,918916E+22	1,415662E+21	1,415941E+21	3,837932E+22	2,831603E+21	4,121093E+22
-558	1,918866E+22	1,918880E+22	1,416001E+21	1,415756E+21	3,837746E+22	2,831758E+21	4,120922E+22
-557	1,918811E+22	1,918869E+22	1,415953E+21	1,416051E+21	3,837680E+22	2,832003E+21	4,120880E+22
-556	1,918834E+22	1,918750E+22	1,415847E+21	1,416046E+21	3,837584E+22	2,831894E+21	4,120773E+22
-555	1,918699E+22	1,918783E+22	1,416164E+21	1,415880E+21	3,837482E+22	2,832044E+21	4,120687E+22
-554	1,918773E+22	1,918747E+22	1,415908E+21	1,416140E+21	3,837519E+22	2,832048E+21	4,120724E+22
-553	1,918781E+22	1,918706E+22	1,415971E+21	1,415908E+21	3,837488E+22	2,831879E+21	4,120675E+22
-552	1,918714E+22	1,918832E+22	1,416133E+21	1,415878E+21	3,837545E+22	2,832011E+21	4,120747E+22
-551	1,918847E+22	1,918805E+22	1,415781E+21	1,416074E+21	3,837652E+22	2,831854E+21	4,120838E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-550	1,918830E+22	1,918831E+22	1,415934E+21	1,415750E+21	3,837660E+22	2,831684E+21	4,120829E+22
-549	1,918858E+22	1,918936E+22	1,415899E+21	1,415860E+21	3,837794E+22	2,831759E+21	4,120970E+22
-548	1,918996E+22	1,918906E+22	1,415632E+21	1,415847E+21	3,837901E+22	2,831479E+21	4,121049E+22
-547	1,918931E+22	1,918987E+22	1,415902E+21	1,415586E+21	3,837918E+22	2,831488E+21	4,121067E+22
-546	1,918985E+22	1,919018E+22	1,415710E+21	1,415863E+21	3,838003E+22	2,831573E+21	4,121161E+22
-545	1,919009E+22	1,918946E+22	1,415668E+21	1,415750E+21	3,837955E+22	2,831418E+21	4,121097E+22
-544	1,918900E+22	1,919009E+22	1,415953E+21	1,415695E+21	3,837909E+22	2,831648E+21	4,121073E+22
-543	1,918969E+22	1,918931E+22	1,415678E+21	1,415993E+21	3,837900E+22	2,831671E+21	4,121067E+22
-542	1,918919E+22	1,918834E+22	1,415863E+21	1,415785E+21	3,837753E+22	2,831648E+21	4,120917E+22
-541	1,918811E+22	1,918876E+22	1,416044E+21	1,415913E+21	3,837687E+22	2,831957E+21	4,120883E+22
-540	1,918844E+22	1,918765E+22	1,415814E+21	1,416124E+21	3,837609E+22	2,831938E+21	4,120803E+22
-539	1,918700E+22	1,918723E+22	1,416157E+21	1,415931E+21	3,837422E+22	2,832088E+21	4,120631E+22
-538	1,918647E+22	1,918712E+22	1,416103E+21	1,416188E+21	3,837359E+22	2,832291E+21	4,120588E+22
-537	1,918673E+22	1,918578E+22	1,416012E+21	1,416172E+21	3,837251E+22	2,832185E+21	4,120470E+22
-536	1,918555E+22	1,918630E+22	1,416327E+21	1,415985E+21	3,837185E+22	2,832313E+21	4,120416E+22
-535	1,918620E+22	1,918618E+22	1,416065E+21	1,416269E+21	3,837238E+22	2,832334E+21	4,120471E+22
-534	1,918639E+22	1,918563E+22	1,416088E+21	1,416068E+21	3,837202E+22	2,832156E+21	4,120417E+22
-533	1,918580E+22	1,918695E+22	1,416229E+21	1,416019E+21	3,837275E+22	2,832247E+21	4,120499E+22
-532	1,918720E+22	1,918681E+22	1,415881E+21	1,416207E+21	3,837400E+22	2,832088E+21	4,120609E+22
-531	1,918725E+22	1,918707E+22	1,416041E+21	1,415861E+21	3,837432E+22	2,831901E+21	4,120623E+22
-530	1,918748E+22	1,918818E+22	1,416018E+21	1,415945E+21	3,837567E+22	2,831962E+21	4,120763E+22
-529	1,918856E+22	1,918776E+22	1,415776E+21	1,415965E+21	3,837632E+22	2,831742E+21	4,120807E+22
-528	1,918784E+22	1,918858E+22	1,416049E+21	1,415728E+21	3,837642E+22	2,831777E+21	4,120820E+22
-527	1,918824E+22	1,918878E+22	1,415864E+21	1,416029E+21	3,837702E+22	2,831893E+21	4,120891E+22
-526	1,918865E+22	1,918769E+22	1,415801E+21	1,415924E+21	3,837634E+22	2,831725E+21	4,120807E+22
-525	1,918766E+22	1,918838E+22	1,416078E+21	1,415833E+21	3,837604E+22	2,831911E+21	4,120795E+22
-524	1,918825E+22	1,918778E+22	1,415829E+21	1,416132E+21	3,837603E+22	2,831961E+21	4,120799E+22
-523	1,918772E+22	1,918691E+22	1,416022E+21	1,415938E+21	3,837463E+22	2,831960E+21	4,120659E+22
-522	1,918641E+22	1,918733E+22	1,416201E+21	1,416057E+21	3,837375E+22	2,832258E+21	4,120601E+22
-521	1,918651E+22	1,918599E+22	1,415997E+21	1,416288E+21	3,837249E+22	2,832285E+21	4,120478E+22
-520	1,918524E+22	1,918557E+22	1,416331E+21	1,416080E+21	3,837081E+22	2,832411E+21	4,120322E+22
-519	1,918477E+22	1,918547E+22	1,416277E+21	1,416332E+21	3,837024E+22	2,832610E+21	4,120285E+22
-518	1,918526E+22	1,918399E+22	1,416158E+21	1,416331E+21	3,836924E+22	2,832489E+21	4,120173E+22
-517	1,918416E+22	1,918475E+22	1,416439E+21	1,416135E+21	3,836891E+22	2,832573E+21	4,120148E+22
-516	1,918475E+22	1,918487E+22	1,416179E+21	1,416435E+21	3,836962E+22	2,832614E+21	4,120223E+22
-515	1,918516E+22	1,918436E+22	1,416194E+21	1,416218E+21	3,836952E+22	2,832412E+21	4,120193E+22
-514	1,918464E+22	1,918573E+22	1,416334E+21	1,416111E+21	3,837037E+22	2,832444E+21	4,120281E+22
-513	1,918595E+22	1,918552E+22	1,416020E+21	1,416290E+21	3,837147E+22	2,832310E+21	4,120378E+22
-512	1,918601E+22	1,918591E+22	1,416187E+21	1,415943E+21	3,837192E+22	2,832130E+21	4,120405E+22
-511	1,918601E+22	1,918706E+22	1,416171E+21	1,416068E+21	3,837306E+22	2,832239E+21	4,120530E+22
-510	1,918708E+22	1,918629E+22	1,415902E+21	1,416135E+21	3,837338E+22	2,832037E+21	4,120541E+22
-509	1,918644E+22	1,918704E+22	1,416152E+21	1,415888E+21	3,837348E+22	2,832040E+21	4,120552E+22
-508	1,918689E+22	1,918730E+22	1,415984E+21	1,416183E+21	3,837419E+22	2,832168E+21	4,120636E+22
-507	1,918749E+22	1,918620E+22	1,415932E+21	1,416060E+21	3,837368E+22	2,831992E+21	4,120567E+22
-506	1,918635E+22	1,918697E+22	1,416226E+21	1,415940E+21	3,837332E+22	2,832166E+21	4,120549E+22
-505	1,918654E+22	1,918632E+22	1,416011E+21	1,416278E+21	3,837286E+22	2,832290E+21	4,120515E+22
-504	1,918585E+22	1,918542E+22	1,416209E+21	1,416108E+21	3,837128E+22	2,832317E+21	4,120359E+22
-503	1,918445E+22	1,918569E+22	1,416390E+21	1,416243E+21	3,837014E+22	2,832632E+21	4,120278E+22
-502	1,918476E+22	1,918398E+22	1,416155E+21	1,416472E+21	3,836874E+22	2,832627E+21	4,120137E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-501	1,918373E+22	1,918365E+22	1,416460E+21	1,416229E+21	3,836738E+22	2,832689E+21	4,120006E+22
-500	1,918331E+22	1,918384E+22	1,416414E+21	1,416478E+21	3,836715E+22	2,832892E+21	4,120004E+22
-499	1,918392E+22	1,918259E+22	1,416281E+21	1,416485E+21	3,836651E+22	2,832766E+21	4,119927E+22
-498	1,918279E+22	1,918352E+22	1,416550E+21	1,416260E+21	3,836631E+22	2,832810E+21	4,119912E+22
-497	1,918328E+22	1,918358E+22	1,416324E+21	1,416561E+21	3,836687E+22	2,832885E+21	4,119975E+22
-496	1,918383E+22	1,918318E+22	1,416338E+21	1,416317E+21	3,836701E+22	2,832656E+21	4,119966E+22
-495	1,918332E+22	1,918452E+22	1,416490E+21	1,416208E+21	3,836783E+22	2,832697E+21	4,120053E+22
-494	1,918463E+22	1,918408E+22	1,416155E+21	1,416411E+21	3,836871E+22	2,832565E+21	4,120128E+22
-493	1,918468E+22	1,918453E+22	1,416292E+21	1,416086E+21	3,836921E+22	2,832377E+21	4,120159E+22
-492	1,918455E+22	1,918571E+22	1,416287E+21	1,416236E+21	3,837026E+22	2,832522E+21	4,120278E+22
-491	1,918583E+22	1,918488E+22	1,416013E+21	1,416302E+21	3,837071E+22	2,832314E+21	4,120302E+22
-490	1,918527E+22	1,918562E+22	1,416258E+21	1,415999E+21	3,837089E+22	2,832258E+21	4,120315E+22
-489	1,918551E+22	1,918583E+22	1,416144E+21	1,416292E+21	3,837134E+22	2,832436E+21	4,120378E+22
-488	1,918601E+22	1,918490E+22	1,416105E+21	1,416176E+21	3,837090E+22	2,832281E+21	4,120318E+22
-487	1,918458E+22	1,918562E+22	1,416414E+21	1,416099E+21	3,837019E+22	2,832513E+21	4,120271E+22
-486	1,918467E+22	1,918458E+22	1,416180E+21	1,416471E+21	3,836925E+22	2,832651E+21	4,120190E+22
-485	1,918409E+22	1,918358E+22	1,416349E+21	1,416299E+21	3,836767E+22	2,832649E+21	4,120032E+22
-484	1,918278E+22	1,918387E+22	1,416535E+21	1,416419E+21	3,836665E+22	2,832953E+21	4,119961E+22
-483	1,918339E+22	1,918222E+22	1,416294E+21	1,416631E+21	3,836561E+22	2,832925E+21	4,119853E+22
-482	1,918239E+22	1,918210E+22	1,416586E+21	1,416347E+21	3,836448E+22	2,832933E+21	4,119742E+22
-481	1,918173E+22	1,918244E+22	1,416575E+21	1,416621E+21	3,836417E+22	2,833196E+21	4,119736E+22
-480	1,918232E+22	1,918137E+22	1,416443E+21	1,416625E+21	3,836369E+22	2,833068E+21	4,119676E+22
-479	1,918123E+22	1,918224E+22	1,416716E+21	1,416401E+21	3,836347E+22	2,833117E+21	4,119659E+22
-478	1,918188E+22	1,918203E+22	1,416468E+21	1,416685E+21	3,836391E+22	2,833153E+21	4,119706E+22
-477	1,918256E+22	1,918171E+22	1,416453E+21	1,416424E+21	3,836428E+22	2,832878E+21	4,119715E+22
-476	1,918200E+22	1,918322E+22	1,416609E+21	1,416331E+21	3,836522E+22	2,832939E+21	4,119816E+22
-475	1,918338E+22	1,918282E+22	1,416257E+21	1,416557E+21	3,836620E+22	2,832813E+21	4,119901E+22
-474	1,918341E+22	1,918328E+22	1,416379E+21	1,416212E+21	3,836669E+22	2,832591E+21	4,119928E+22
-473	1,918321E+22	1,918437E+22	1,416416E+21	1,416371E+21	3,836758E+22	2,832787E+21	4,120037E+22
-472	1,918455E+22	1,918363E+22	1,416157E+21	1,416413E+21	3,836818E+22	2,832570E+21	4,120075E+22
-471	1,918394E+22	1,918431E+22	1,416426E+21	1,416122E+21	3,836826E+22	2,832548E+21	4,120080E+22
-470	1,918403E+22	1,918427E+22	1,416307E+21	1,416434E+21	3,836830E+22	2,832741E+21	4,120104E+22
-469	1,918436E+22	1,918333E+22	1,416246E+21	1,416352E+21	3,836770E+22	2,832599E+21	4,120029E+22
-468	1,918279E+22	1,918396E+22	1,416567E+21	1,416298E+21	3,836675E+22	2,832865E+21	4,119962E+22
-467	1,918305E+22	1,918279E+22	1,416322E+21	1,416660E+21	3,836585E+22	2,832982E+21	4,119883E+22
-466	1,918262E+22	1,918181E+22	1,416481E+21	1,416432E+21	3,836442E+22	2,832912E+21	4,119734E+22
-465	1,918121E+22	1,918215E+22	1,416708E+21	1,416547E+21	3,836337E+22	2,833255E+21	4,119662E+22
-464	1,918178E+22	1,918081E+22	1,416476E+21	1,416757E+21	3,836259E+22	2,833233E+21	4,119583E+22
-463	1,918068E+22	1,918076E+22	1,416765E+21	1,416507E+21	3,836144E+22	2,833272E+21	4,119472E+22
-462	1,918002E+22	1,918085E+22	1,416735E+21	1,416789E+21	3,836088E+22	2,833524E+21	4,119440E+22
-461	1,918081E+22	1,917984E+22	1,416571E+21	1,416781E+21	3,836065E+22	2,833353E+21	4,119400E+22
-460	1,917982E+22	1,918075E+22	1,416845E+21	1,416535E+21	3,836058E+22	2,833380E+21	4,119396E+22
-459	1,918069E+22	1,918060E+22	1,416585E+21	1,416806E+21	3,836129E+22	2,833390E+21	4,119468E+22
-458	1,918138E+22	1,918043E+22	1,416546E+21	1,416525E+21	3,836181E+22	2,833070E+21	4,119488E+22
-457	1,918058E+22	1,918195E+22	1,416734E+21	1,416468E+21	3,836253E+22	2,833202E+21	4,119573E+22
-456	1,918198E+22	1,918169E+22	1,416390E+21	1,416691E+21	3,836366E+22	2,833081E+21	4,119674E+22
-455	1,918212E+22	1,918202E+22	1,416518E+21	1,416349E+21	3,836414E+22	2,832867E+21	4,119701E+22
-454	1,918197E+22	1,918284E+22	1,416552E+21	1,416489E+21	3,836481E+22	2,833042E+21	4,119785E+22
-453	1,918331E+22	1,918219E+22	1,416284E+21	1,416529E+21	3,836551E+22	2,832813E+21	4,119832E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-452	1,918248E+22	1,918294E+22	1,416570E+21	1,416268E+21	3,836542E+22	2,832838E+21	4,119826E+22
-451	1,918250E+22	1,918283E+22	1,416444E+21	1,416604E+21	3,836533E+22	2,833047E+21	4,119837E+22
-450	1,918277E+22	1,918179E+22	1,416372E+21	1,416508E+21	3,836456E+22	2,832880E+21	4,119744E+22
-449	1,918110E+22	1,918227E+22	1,416733E+21	1,416462E+21	3,836338E+22	2,833194E+21	4,119657E+22
-448	1,918143E+22	1,918121E+22	1,416501E+21	1,416793E+21	3,836264E+22	2,833294E+21	4,119593E+22
-447	1,918103E+22	1,918020E+22	1,416668E+21	1,416581E+21	3,836123E+22	2,833249E+21	4,119448E+22
-446	1,917954E+22	1,918041E+22	1,416879E+21	1,416711E+21	3,835995E+22	2,833591E+21	4,119354E+22
-445	1,918006E+22	1,917921E+22	1,416626E+21	1,416942E+21	3,835927E+22	2,833569E+21	4,119283E+22
-444	1,917899E+22	1,917918E+22	1,416913E+21	1,416699E+21	3,835817E+22	2,833612E+21	4,119178E+22
-443	1,917862E+22	1,917923E+22	1,416863E+21	1,416946E+21	3,835785E+22	2,833809E+21	4,119166E+22
-442	1,917953E+22	1,917833E+22	1,416677E+21	1,416877E+21	3,835787E+22	2,833554E+21	4,119142E+22
-441	1,917849E+22	1,917936E+22	1,416981E+21	1,416637E+21	3,835784E+22	2,833617E+21	4,119146E+22
-440	1,917927E+22	1,917949E+22	1,416726E+21	1,416901E+21	3,835876E+22	2,833627E+21	4,119239E+22
-439	1,917994E+22	1,917931E+22	1,416685E+21	1,416664E+21	3,835925E+22	2,833349E+21	4,119260E+22
-438	1,917919E+22	1,918053E+22	1,416859E+21	1,416613E+21	3,835972E+22	2,833473E+21	4,119319E+22
-437	1,918074E+22	1,918030E+22	1,416503E+21	1,416828E+21	3,836104E+22	2,833331E+21	4,119437E+22
-436	1,918095E+22	1,918065E+22	1,416640E+21	1,416476E+21	3,836160E+22	2,833116E+21	4,119471E+22
-435	1,918087E+22	1,918145E+22	1,416672E+21	1,416608E+21	3,836233E+22	2,833280E+21	4,119561E+22
-434	1,918201E+22	1,918091E+22	1,416396E+21	1,416642E+21	3,836292E+22	2,833037E+21	4,119596E+22
-433	1,918084E+22	1,918154E+22	1,416726E+21	1,416434E+21	3,836238E+22	2,833160E+21	4,119554E+22
-432	1,918074E+22	1,918143E+22	1,416618E+21	1,416759E+21	3,836217E+22	2,833377E+21	4,119555E+22
-431	1,918110E+22	1,918018E+22	1,416553E+21	1,416678E+21	3,836128E+22	2,833231E+21	4,119451E+22
-430	1,917947E+22	1,918034E+22	1,416903E+21	1,416615E+21	3,835981E+22	2,833518E+21	4,119333E+22
-429	1,917986E+22	1,917943E+22	1,416660E+21	1,416949E+21	3,835929E+22	2,833609E+21	4,119289E+22
-428	1,917936E+22	1,917854E+22	1,416824E+21	1,416757E+21	3,835789E+22	2,833581E+21	4,119147E+22
-427	1,917793E+22	1,917879E+22	1,417014E+21	1,416896E+21	3,835671E+22	2,833910E+21	4,119062E+22
-426	1,917852E+22	1,917767E+22	1,416745E+21	1,417092E+21	3,835620E+22	2,833837E+21	4,119003E+22
-425	1,917743E+22	1,917765E+22	1,417064E+21	1,416844E+21	3,835509E+22	2,833908E+21	4,118899E+22
-424	1,917716E+22	1,917792E+22	1,417025E+21	1,417038E+21	3,835508E+22	2,834063E+21	4,118914E+22
-423	1,917816E+22	1,917703E+22	1,416839E+21	1,416988E+21	3,835518E+22	2,833827E+21	4,118901E+22
-422	1,917700E+22	1,917788E+22	1,417118E+21	1,416767E+21	3,835488E+22	2,833886E+21	4,118876E+22
-421	1,917780E+22	1,917812E+22	1,416845E+21	1,417055E+21	3,835593E+22	2,833901E+21	4,118983E+22
-420	1,917857E+22	1,917792E+22	1,416800E+21	1,416824E+21	3,835649E+22	2,833625E+21	4,119012E+22
-419	1,917813E+22	1,917910E+22	1,416955E+21	1,416748E+21	3,835723E+22	2,833704E+21	4,119094E+22
-418	1,917974E+22	1,917901E+22	1,416596E+21	1,416908E+21	3,835874E+22	2,833504E+21	4,119225E+22
-417	1,917973E+22	1,917943E+22	1,416775E+21	1,416584E+21	3,835916E+22	2,833359E+21	4,119252E+22
-416	1,917939E+22	1,918040E+22	1,416827E+21	1,416712E+21	3,835980E+22	2,833539E+21	4,119333E+22
-415	1,918038E+22	1,917967E+22	1,416560E+21	1,416800E+21	3,836005E+22	2,833361E+21	4,119341E+22
-414	1,917914E+22	1,917985E+22	1,416884E+21	1,416610E+21	3,835899E+22	2,833494E+21	4,119248E+22
-413	1,917913E+22	1,917967E+22	1,416770E+21	1,416926E+21	3,835880E+22	2,833696E+21	4,119250E+22
-412	1,917956E+22	1,917839E+22	1,416711E+21	1,416847E+21	3,835794E+22	2,833558E+21	4,119150E+22
-411	1,917809E+22	1,917853E+22	1,417036E+21	1,416779E+21	3,835662E+22	2,833815E+21	4,119044E+22
-410	1,917832E+22	1,917782E+22	1,416785E+21	1,417098E+21	3,835613E+22	2,833884E+21	4,119002E+22
-409	1,917763E+22	1,917700E+22	1,416983E+21	1,416943E+21	3,835462E+22	2,833926E+21	4,118855E+22
-408	1,917622E+22	1,917737E+22	1,417189E+21	1,417035E+21	3,835359E+22	2,834223E+21	4,118781E+22
-407	1,917695E+22	1,917620E+22	1,416927E+21	1,417227E+21	3,835315E+22	2,834154E+21	4,118730E+22
-406	1,917587E+22	1,917595E+22	1,417230E+21	1,416963E+21	3,835183E+22	2,834192E+21	4,118602E+22
-405	1,917561E+22	1,917640E+22	1,417174E+21	1,417159E+21	3,835201E+22	2,834333E+21	4,118634E+22
-404	1,917656E+22	1,917561E+22	1,416974E+21	1,417142E+21	3,835218E+22	2,834116E+21	4,118629E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-403	1,917564E+22	1,917642E+22	1,417213E+21	1,416931E+21	3,835206E+22	2,834144E+21	4,118620E+22
-402	1,917661E+22	1,917678E+22	1,416929E+21	1,417181E+21	3,835340E+22	2,834110E+21	4,118751E+22
-401	1,917742E+22	1,917666E+22	1,416914E+21	1,416949E+21	3,835408E+22	2,833863E+21	4,118795E+22
-400	1,917702E+22	1,917804E+22	1,417092E+21	1,416823E+21	3,835506E+22	2,833915E+21	4,118897E+22
-399	1,917854E+22	1,917793E+22	1,416749E+21	1,417012E+21	3,835647E+22	2,833760E+21	4,119023E+22
-398	1,917820E+22	1,917806E+22	1,416922E+21	1,416727E+21	3,835626E+22	2,833649E+21	4,118991E+22
-397	1,917775E+22	1,917896E+22	1,416972E+21	1,416881E+21	3,835671E+22	2,833854E+21	4,119056E+22
-396	1,917875E+22	1,917802E+22	1,416709E+21	1,416982E+21	3,835678E+22	2,833691E+21	4,119047E+22
-395	1,917778E+22	1,917801E+22	1,417006E+21	1,416773E+21	3,835578E+22	2,833779E+21	4,118956E+22
-394	1,917782E+22	1,917796E+22	1,416887E+21	1,417044E+21	3,835578E+22	2,833932E+21	4,118971E+22
-393	1,917803E+22	1,917682E+22	1,416865E+21	1,416995E+21	3,835486E+22	2,833860E+21	4,118872E+22
-392	1,917640E+22	1,917721E+22	1,417204E+21	1,416915E+21	3,835362E+22	2,834119E+21	4,118774E+22
-391	1,917659E+22	1,917643E+22	1,416972E+21	1,417265E+21	3,835302E+22	2,834236E+21	4,118725E+22
-390	1,917583E+22	1,917529E+22	1,417162E+21	1,417113E+21	3,835112E+22	2,834275E+21	4,118539E+22
-389	1,917454E+22	1,917569E+22	1,417358E+21	1,417180E+21	3,835023E+22	2,834538E+21	4,118477E+22
-388	1,917534E+22	1,917452E+22	1,417093E+21	1,417371E+21	3,834986E+22	2,834465E+21	4,118432E+22
-387	1,917446E+22	1,917427E+22	1,417350E+21	1,417115E+21	3,834873E+22	2,834465E+21	4,118320E+22
-386	1,917416E+22	1,917492E+22	1,417272E+21	1,417299E+21	3,834908E+22	2,834571E+21	4,118365E+22
-385	1,917509E+22	1,917426E+22	1,417093E+21	1,417313E+21	3,834935E+22	2,834406E+21	4,118375E+22
-384	1,917438E+22	1,917523E+22	1,417336E+21	1,417048E+21	3,834961E+22	2,834384E+21	4,118400E+22
-383	1,917553E+22	1,917562E+22	1,417070E+21	1,417283E+21	3,835114E+22	2,834353E+21	4,118550E+22
-382	1,917623E+22	1,917535E+22	1,417050E+21	1,417043E+21	3,835158E+22	2,834094E+21	4,118567E+22
-381	1,917570E+22	1,917681E+22	1,417230E+21	1,416924E+21	3,835251E+22	2,834154E+21	4,118666E+22
-380	1,917697E+22	1,917667E+22	1,416892E+21	1,417153E+21	3,835365E+22	2,834045E+21	4,118769E+22
-379	1,917676E+22	1,917653E+22	1,417032E+21	1,416900E+21	3,835330E+22	2,833931E+21	4,118723E+22
-378	1,917634E+22	1,917738E+22	1,417079E+21	1,417023E+21	3,835372E+22	2,834102E+21	4,118782E+22
-377	1,917733E+22	1,917647E+22	1,416849E+21	1,417135E+21	3,835380E+22	2,833985E+21	4,118778E+22
-376	1,917642E+22	1,917657E+22	1,417160E+21	1,416883E+21	3,835299E+22	2,834043E+21	4,118704E+22
-375	1,917635E+22	1,917656E+22	1,417065E+21	1,417181E+21	3,835291E+22	2,834245E+21	4,118715E+22
-374	1,917623E+22	1,917523E+22	1,417040E+21	1,417170E+21	3,835145E+22	2,834210E+21	4,118566E+22
-373	1,917453E+22	1,917557E+22	1,417383E+21	1,417101E+21	3,835011E+22	2,834483E+21	4,118459E+22
-372	1,917476E+22	1,917468E+22	1,417158E+21	1,417448E+21	3,834944E+22	2,834606E+21	4,118404E+22
-371	1,917428E+22	1,917340E+22	1,417306E+21	1,417281E+21	3,834768E+22	2,834587E+21	4,118227E+22
-370	1,917306E+22	1,917396E+22	1,417483E+21	1,417304E+21	3,834702E+22	2,834787E+21	4,118181E+22
-369	1,917375E+22	1,917300E+22	1,417233E+21	1,417523E+21	3,834674E+22	2,834756E+21	4,118150E+22
-368	1,917291E+22	1,917299E+22	1,417481E+21	1,417247E+21	3,834590E+22	2,834728E+21	4,118063E+22
-367	1,917278E+22	1,917366E+22	1,417415E+21	1,417442E+21	3,834644E+22	2,834857E+21	4,118130E+22
-366	1,917370E+22	1,917286E+22	1,417232E+21	1,417446E+21	3,834656E+22	2,834677E+21	4,118123E+22
-365	1,917318E+22	1,917394E+22	1,417471E+21	1,417153E+21	3,834712E+22	2,834625E+21	4,118175E+22
-364	1,917432E+22	1,917434E+22	1,417218E+21	1,417384E+21	3,834866E+22	2,834602E+21	4,118326E+22
-363	1,917501E+22	1,917400E+22	1,417157E+21	1,417170E+21	3,834901E+22	2,834327E+21	4,118334E+22
-362	1,917431E+22	1,917551E+22	1,417324E+21	1,417056E+21	3,834982E+22	2,834380E+21	4,118421E+22
-361	1,917544E+22	1,917532E+22	1,417017E+21	1,417319E+21	3,835076E+22	2,834335E+21	4,118510E+22
-360	1,917538E+22	1,917519E+22	1,417166E+21	1,417028E+21	3,835057E+22	2,834194E+21	4,118476E+22
-359	1,917509E+22	1,917595E+22	1,417238E+21	1,417143E+21	3,835103E+22	2,834381E+21	4,118542E+22
-358	1,917585E+22	1,917488E+22	1,417014E+21	1,417265E+21	3,835072E+22	2,834279E+21	4,118500E+22
-357	1,917481E+22	1,917508E+22	1,417322E+21	1,417031E+21	3,834989E+22	2,834353E+21	4,118424E+22
-356	1,917454E+22	1,917501E+22	1,417240E+21	1,417362E+21	3,834954E+22	2,834602E+21	4,118415E+22
-355	1,917454E+22	1,917347E+22	1,417182E+21	1,417374E+21	3,834800E+22	2,834556E+21	4,118256E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-354	1,917292E+22	1,917381E+22	1,417516E+21	1,417266E+21	3,834673E+22	2,834783E+21	4,118151E+22
-353	1,917313E+22	1,917299E+22	1,417319E+21	1,417609E+21	3,834613E+22	2,834929E+21	4,118106E+22
-352	1,917279E+22	1,917187E+22	1,417467E+21	1,417405E+21	3,834466E+22	2,834871E+21	4,117953E+22
-351	1,917154E+22	1,917250E+22	1,417648E+21	1,417441E+21	3,834404E+22	2,835089E+21	4,117913E+22
-350	1,917201E+22	1,917146E+22	1,417389E+21	1,417688E+21	3,834347E+22	2,835077E+21	4,117855E+22
-349	1,917135E+22	1,917150E+22	1,417624E+21	1,417400E+21	3,834285E+22	2,835024E+21	4,117788E+22
-348	1,917137E+22	1,917220E+22	1,417570E+21	1,417578E+21	3,834357E+22	2,835148E+21	4,117872E+22
-347	1,917257E+22	1,917139E+22	1,417343E+21	1,417563E+21	3,834396E+22	2,834906E+21	4,117887E+22
-346	1,917203E+22	1,917263E+22	1,417571E+21	1,417240E+21	3,834466E+22	2,834811E+21	4,117947E+22
-345	1,917292E+22	1,917321E+22	1,417341E+21	1,417503E+21	3,834613E+22	2,834844E+21	4,118097E+22
-344	1,917359E+22	1,917292E+22	1,417277E+21	1,417290E+21	3,834651E+22	2,834567E+21	4,118108E+22
-343	1,917295E+22	1,917427E+22	1,417462E+21	1,417195E+21	3,834722E+22	2,834657E+21	4,118187E+22
-342	1,917395E+22	1,917384E+22	1,417160E+21	1,417463E+21	3,834779E+22	2,834623E+21	4,118241E+22
-341	1,917403E+22	1,917367E+22	1,417312E+21	1,417159E+21	3,834770E+22	2,834471E+21	4,118217E+22
-340	1,917369E+22	1,917440E+22	1,417404E+21	1,417286E+21	3,834809E+22	2,834690E+21	4,118278E+22
-339	1,917438E+22	1,917326E+22	1,417144E+21	1,417441E+21	3,834764E+22	2,834585E+21	4,118223E+22
-338	1,917320E+22	1,917348E+22	1,417446E+21	1,417212E+21	3,834668E+22	2,834658E+21	4,118134E+22
-337	1,917281E+22	1,917339E+22	1,417398E+21	1,417553E+21	3,834620E+22	2,834951E+21	4,118115E+22
-336	1,917296E+22	1,917189E+22	1,417346E+21	1,417521E+21	3,834485E+22	2,834867E+21	4,117972E+22
-335	1,917146E+22	1,917220E+22	1,417695E+21	1,417396E+21	3,834366E+22	2,835091E+21	4,117875E+22
-334	1,917138E+22	1,917130E+22	1,417503E+21	1,417740E+21	3,834268E+22	2,835242E+21	4,117792E+22
-333	1,917101E+22	1,917031E+22	1,417635E+21	1,417552E+21	3,834131E+22	2,835186E+21	4,117650E+22
-332	1,916979E+22	1,917092E+22	1,417815E+21	1,417611E+21	3,834070E+22	2,835426E+21	4,117613E+22
-331	1,917049E+22	1,916980E+22	1,417513E+21	1,417863E+21	3,834029E+22	2,835376E+21	4,117567E+22
-330	1,917007E+22	1,917000E+22	1,417724E+21	1,417534E+21	3,834007E+22	2,835258E+21	4,117533E+22
-329	1,917016E+22	1,917087E+22	1,417695E+21	1,417694E+21	3,834103E+22	2,835389E+21	4,117642E+22
-328	1,917142E+22	1,917028E+22	1,417467E+21	1,417649E+21	3,834170E+22	2,835116E+21	4,117682E+22
-327	1,917078E+22	1,917155E+22	1,417701E+21	1,417353E+21	3,834233E+22	2,835054E+21	4,117738E+22
-326	1,917129E+22	1,917193E+22	1,417478E+21	1,417646E+21	3,834322E+22	2,835124E+21	4,117835E+22
-325	1,917210E+22	1,917154E+22	1,417412E+21	1,417439E+21	3,834364E+22	2,834851E+21	4,117849E+22
-324	1,917161E+22	1,917273E+22	1,417612E+21	1,417340E+21	3,834434E+22	2,834952E+21	4,117929E+22
-323	1,917277E+22	1,917221E+22	1,417278E+21	1,417603E+21	3,834498E+22	2,834881E+21	4,117986E+22
-322	1,917280E+22	1,917216E+22	1,417416E+21	1,417288E+21	3,834496E+22	2,834704E+21	4,117966E+22
-321	1,917218E+22	1,917303E+22	1,417537E+21	1,417443E+21	3,834521E+22	2,834980E+21	4,118019E+22
-320	1,917283E+22	1,917194E+22	1,417290E+21	1,417594E+21	3,834477E+22	2,834883E+21	4,117965E+22
-319	1,917166E+22	1,917200E+22	1,417618E+21	1,417371E+21	3,834366E+22	2,834989E+21	4,117865E+22
-318	1,917102E+22	1,917174E+22	1,417587E+21	1,417701E+21	3,834276E+22	2,835288E+21	4,117805E+22
-317	1,917129E+22	1,917018E+22	1,417538E+21	1,417659E+21	3,834147E+22	2,835197E+21	4,117666E+22
-316	1,916972E+22	1,917043E+22	1,417890E+21	1,417550E+21	3,834014E+22	2,835441E+21	4,117559E+22
-315	1,916962E+22	1,916951E+22	1,417643E+21	1,417926E+21	3,833913E+22	2,835569E+21	4,117470E+22
-314	1,916931E+22	1,916857E+22	1,417750E+21	1,417738E+21	3,833788E+22	2,835488E+21	4,117337E+22
-313	1,916822E+22	1,916932E+22	1,417946E+21	1,417788E+21	3,833754E+22	2,835734E+21	4,117328E+22
-312	1,916924E+22	1,916843E+22	1,417646E+21	1,417982E+21	3,833767E+22	2,835628E+21	4,117330E+22
-311	1,916897E+22	1,916873E+22	1,417863E+21	1,417629E+21	3,833770E+22	2,835491E+21	4,117319E+22
-310	1,916871E+22	1,916964E+22	1,417842E+21	1,417788E+21	3,833834E+22	2,835630E+21	4,117397E+22
-309	1,916990E+22	1,916911E+22	1,417603E+21	1,417765E+21	3,833902E+22	2,835368E+21	4,117439E+22
-308	1,916926E+22	1,917022E+22	1,417844E+21	1,417504E+21	3,833948E+22	2,835348E+21	4,117483E+22
-307	1,916992E+22	1,917042E+22	1,417584E+21	1,417804E+21	3,834034E+22	2,835387E+21	4,117573E+22
-306	1,917093E+22	1,917004E+22	1,417505E+21	1,417576E+21	3,834097E+22	2,835081E+21	4,117605E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-305	1,917048E+22	1,917132E+22	1,417729E+21	1,417470E+21	3,834180E+22	2,835198E+21	4,117700E+22
-304	1,917162E+22	1,917098E+22	1,417409E+21	1,417714E+21	3,834260E+22	2,835122E+21	4,117772E+22
-303	1,917149E+22	1,917094E+22	1,417557E+21	1,417427E+21	3,834242E+22	2,834984E+21	4,117741E+22
-302	1,917040E+22	1,917159E+22	1,417706E+21	1,417596E+21	3,834199E+22	2,835302E+21	4,117730E+22
-301	1,917108E+22	1,917039E+22	1,417473E+21	1,417748E+21	3,834147E+22	2,835221E+21	4,117669E+22
-300	1,916999E+22	1,917025E+22	1,417816E+21	1,417533E+21	3,834023E+22	2,835348E+21	4,117558E+22
-299	1,916935E+22	1,916984E+22	1,417749E+21	1,417857E+21	3,833919E+22	2,835606E+21	4,117480E+22
-298	1,916960E+22	1,916837E+22	1,417675E+21	1,417825E+21	3,833797E+22	2,835499E+21	4,117347E+22
-297	1,916795E+22	1,916873E+22	1,418026E+21	1,417737E+21	3,833669E+22	2,835763E+21	4,117245E+22
-296	1,916803E+22	1,916796E+22	1,417780E+21	1,418094E+21	3,833598E+22	2,835874E+21	4,117186E+22
-295	1,916793E+22	1,916710E+22	1,417887E+21	1,417889E+21	3,833503E+22	2,835777E+21	4,117081E+22
-294	1,916672E+22	1,916786E+22	1,418101E+21	1,417909E+21	3,833458E+22	2,836010E+21	4,117059E+22
-293	1,916789E+22	1,916710E+22	1,417812E+21	1,418081E+21	3,833499E+22	2,835893E+21	4,117088E+22
-292	1,916755E+22	1,916741E+22	1,418027E+21	1,417753E+21	3,833496E+22	2,835780E+21	4,117074E+22
-291	1,916718E+22	1,916822E+22	1,417959E+21	1,417936E+21	3,833540E+22	2,835895E+21	4,117130E+22
-290	1,916844E+22	1,916766E+22	1,417698E+21	1,417923E+21	3,833610E+22	2,835621E+21	4,117172E+22
-289	1,916795E+22	1,916876E+22	1,417948E+21	1,417656E+21	3,833671E+22	2,835604E+21	4,117232E+22
-288	1,916889E+22	1,916910E+22	1,417698E+21	1,417910E+21	3,833800E+22	2,835608E+21	4,117360E+22
-287	1,916994E+22	1,916881E+22	1,417630E+21	1,417668E+21	3,833875E+22	2,835298E+21	4,117405E+22
-286	1,916904E+22	1,917011E+22	1,417876E+21	1,417575E+21	3,833915E+22	2,835452E+21	4,117461E+22
-285	1,917004E+22	1,916976E+22	1,417571E+21	1,417841E+21	3,833980E+22	2,835412E+21	4,117521E+22
-284	1,916979E+22	1,916947E+22	1,417736E+21	1,417601E+21	3,833926E+22	2,835336E+21	4,117460E+22
-283	1,916871E+22	1,916987E+22	1,417853E+21	1,417771E+21	3,833858E+22	2,835624E+21	4,117420E+22
-282	1,916950E+22	1,916858E+22	1,417612E+21	1,417915E+21	3,833808E+22	2,835526E+21	4,117361E+22
-281	1,916843E+22	1,916845E+22	1,417967E+21	1,417701E+21	3,833687E+22	2,835668E+21	4,117254E+22
-280	1,916782E+22	1,916820E+22	1,417896E+21	1,418012E+21	3,833601E+22	2,835909E+21	4,117192E+22
-279	1,916799E+22	1,916679E+22	1,417818E+21	1,417998E+21	3,833478E+22	2,835817E+21	4,117060E+22
-278	1,916612E+22	1,916709E+22	1,418184E+21	1,417910E+21	3,833322E+22	2,836094E+21	4,116931E+22
-277	1,916643E+22	1,916639E+22	1,417957E+21	1,418237E+21	3,833282E+22	2,836194E+21	4,116902E+22
-276	1,916650E+22	1,916556E+22	1,418070E+21	1,418026E+21	3,833206E+22	2,836096E+21	4,116816E+22
-275	1,916529E+22	1,916631E+22	1,418244E+21	1,418025E+21	3,833160E+22	2,836269E+21	4,116787E+22
-274	1,916641E+22	1,916569E+22	1,417932E+21	1,418209E+21	3,833210E+22	2,836141E+21	4,116824E+22
-273	1,916602E+22	1,916606E+22	1,418140E+21	1,417907E+21	3,833208E+22	2,836046E+21	4,116812E+22
-272	1,916582E+22	1,916692E+22	1,418070E+21	1,418071E+21	3,833275E+22	2,836141E+21	4,116889E+22
-271	1,916730E+22	1,916640E+22	1,417808E+21	1,418046E+21	3,833369E+22	2,835853E+21	4,116955E+22
-270	1,916672E+22	1,916744E+22	1,418075E+21	1,417759E+21	3,833415E+22	2,835834E+21	4,116999E+22
-269	1,916771E+22	1,916789E+22	1,417853E+21	1,418000E+21	3,833560E+22	2,835853E+21	4,117145E+22
-268	1,916861E+22	1,916759E+22	1,417786E+21	1,417804E+21	3,833620E+22	2,835591E+21	4,117179E+22
-267	1,916746E+22	1,916866E+22	1,418001E+21	1,417737E+21	3,833612E+22	2,835739E+21	4,117186E+22
-266	1,916844E+22	1,916819E+22	1,417695E+21	1,418017E+21	3,833663E+22	2,835712E+21	4,117234E+22
-265	1,916826E+22	1,916779E+22	1,417873E+21	1,417779E+21	3,833606E+22	2,835652E+21	4,117171E+22
-264	1,916734E+22	1,916822E+22	1,417999E+21	1,417909E+21	3,833557E+22	2,835908E+21	4,117147E+22
-263	1,916810E+22	1,916700E+22	1,417762E+21	1,418046E+21	3,833509E+22	2,835808E+21	4,117090E+22
-262	1,916663E+22	1,916684E+22	1,418128E+21	1,417849E+21	3,833347E+22	2,835977E+21	4,116945E+22
-261	1,916600E+22	1,916664E+22	1,418078E+21	1,418168E+21	3,833264E+22	2,836246E+21	4,116889E+22
-260	1,916623E+22	1,916516E+22	1,418007E+21	1,418184E+21	3,833139E+22	2,836191E+21	4,116758E+22
-259	1,916447E+22	1,916535E+22	1,418336E+21	1,418076E+21	3,832981E+22	2,836412E+21	4,116623E+22
-258	1,916496E+22	1,916472E+22	1,418106E+21	1,418383E+21	3,832969E+22	2,836489E+21	4,116617E+22
-257	1,916505E+22	1,916403E+22	1,418217E+21	1,418169E+21	3,832908E+22	2,836386E+21	4,116547E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-256	1,916388E+22	1,916497E+22	1,418373E+21	1,418156E+21	3,832885E+22	2,836529E+21	4,116538E+22
-255	1,916492E+22	1,916438E+22	1,418050E+21	1,418346E+21	3,832931E+22	2,836396E+21	4,116570E+22
-254	1,916440E+22	1,916465E+22	1,418269E+21	1,418047E+21	3,832905E+22	2,836316E+21	4,116536E+22
-253	1,916451E+22	1,916556E+22	1,418219E+21	1,418181E+21	3,833007E+22	2,836400E+21	4,116647E+22
-252	1,916610E+22	1,916507E+22	1,417962E+21	1,418164E+21	3,833117E+22	2,836126E+21	4,116730E+22
-251	1,916548E+22	1,916606E+22	1,418189E+21	1,417874E+21	3,833154E+22	2,836063E+21	4,116761E+22
-250	1,916639E+22	1,916657E+22	1,417963E+21	1,418135E+21	3,833296E+22	2,836098E+21	4,116906E+22
-249	1,916715E+22	1,916626E+22	1,417900E+21	1,417968E+21	3,833341E+22	2,835868E+21	4,116927E+22
-248	1,916611E+22	1,916727E+22	1,418123E+21	1,417887E+21	3,833338E+22	2,836010E+21	4,116939E+22
-247	1,916709E+22	1,916675E+22	1,417828E+21	1,418147E+21	3,833384E+22	2,835975E+21	4,116982E+22
-246	1,916672E+22	1,916623E+22	1,418037E+21	1,417910E+21	3,833295E+22	2,835947E+21	4,116890E+22
-245	1,916579E+22	1,916668E+22	1,418191E+21	1,418032E+21	3,833248E+22	2,836223E+21	4,116870E+22
-244	1,916636E+22	1,916544E+22	1,417953E+21	1,418224E+21	3,833180E+22	2,836177E+21	4,116798E+22
-243	1,916475E+22	1,916505E+22	1,418275E+21	1,418044E+21	3,832980E+22	2,836320E+21	4,116612E+22
-242	1,916426E+22	1,916480E+22	1,418227E+21	1,418363E+21	3,832907E+22	2,836590E+21	4,116566E+22
-241	1,916465E+22	1,916341E+22	1,418160E+21	1,418362E+21	3,832807E+22	2,836523E+21	4,116459E+22
-240	1,916311E+22	1,916374E+22	1,418487E+21	1,418209E+21	3,832686E+22	2,836695E+21	4,116355E+22
-239	1,916355E+22	1,916332E+22	1,418254E+21	1,418494E+21	3,832687E+22	2,836749E+21	4,116362E+22
-238	1,916331E+22	1,916265E+22	1,418365E+21	1,418301E+21	3,832596E+22	2,836666E+21	4,116263E+22
-237	1,916219E+22	1,916361E+22	1,418532E+21	1,418286E+21	3,832579E+22	2,836818E+21	4,116261E+22
-236	1,916338E+22	1,916300E+22	1,418202E+21	1,418505E+21	3,832637E+22	2,836707E+21	4,116308E+22
-235	1,916304E+22	1,916310E+22	1,418377E+21	1,418185E+21	3,832613E+22	2,836561E+21	4,116269E+22
-234	1,916341E+22	1,916408E+22	1,418334E+21	1,418304E+21	3,832749E+22	2,836638E+21	4,116413E+22
-233	1,916499E+22	1,916378E+22	1,418077E+21	1,418291E+21	3,832876E+22	2,836368E+21	4,116513E+22
-232	1,916433E+22	1,916488E+22	1,418293E+21	1,418005E+21	3,832922E+22	2,836297E+21	4,116551E+22
-231	1,916506E+22	1,916539E+22	1,418074E+21	1,418262E+21	3,833045E+22	2,836337E+21	4,116678E+22
-230	1,916558E+22	1,916489E+22	1,418040E+21	1,418107E+21	3,833047E+22	2,836146E+21	4,116662E+22
-229	1,916467E+22	1,916584E+22	1,418301E+21	1,418002E+21	3,833051E+22	2,836303E+21	4,116681E+22
-228	1,916559E+22	1,916527E+22	1,418018E+21	1,418284E+21	3,833086E+22	2,836302E+21	4,116716E+22
-227	1,916505E+22	1,916455E+22	1,418191E+21	1,418063E+21	3,832959E+22	2,836253E+21	4,116584E+22
-226	1,916407E+22	1,916495E+22	1,418341E+21	1,418215E+21	3,832902E+22	2,836556E+21	4,116558E+22
-225	1,916457E+22	1,916371E+22	1,418102E+21	1,418429E+21	3,832828E+22	2,836531E+21	4,116481E+22
-224	1,916322E+22	1,916334E+22	1,418413E+21	1,418232E+21	3,832656E+22	2,836644E+21	4,116321E+22
-223	1,916282E+22	1,916318E+22	1,418373E+21	1,418504E+21	3,832600E+22	2,836877E+21	4,116288E+22
-222	1,916304E+22	1,916184E+22	1,418334E+21	1,418496E+21	3,832488E+22	2,836830E+21	4,116171E+22
-221	1,916154E+22	1,916231E+22	1,418676E+21	1,418327E+21	3,832384E+22	2,837003E+21	4,116084E+22
-220	1,916178E+22	1,916191E+22	1,418434E+21	1,418654E+21	3,832369E+22	2,837088E+21	4,116078E+22
-219	1,916150E+22	1,916101E+22	1,418496E+21	1,418473E+21	3,832250E+22	2,836969E+21	4,115947E+22
-218	1,916071E+22	1,916190E+22	1,418655E+21	1,418450E+21	3,832260E+22	2,837105E+21	4,115971E+22
-217	1,916212E+22	1,916146E+22	1,418321E+21	1,418645E+21	3,832358E+22	2,836966E+21	4,116055E+22
-216	1,916209E+22	1,916176E+22	1,418477E+21	1,418293E+21	3,832384E+22	2,836769E+21	4,116061E+22
-215	1,916236E+22	1,916297E+22	1,418437E+21	1,418391E+21	3,832533E+22	2,836828E+21	4,116216E+22
-214	1,916356E+22	1,916272E+22	1,418202E+21	1,418403E+21	3,832628E+22	2,836605E+21	4,116288E+22
-213	1,916289E+22	1,916377E+22	1,418448E+21	1,418120E+21	3,832666E+22	2,836568E+21	4,116323E+22
-212	1,916356E+22	1,916415E+22	1,418242E+21	1,418404E+21	3,832770E+22	2,836646E+21	4,116435E+22
-211	1,916406E+22	1,916331E+22	1,418179E+21	1,418251E+21	3,832737E+22	2,836430E+21	4,116380E+22
-210	1,916328E+22	1,916413E+22	1,418450E+21	1,418155E+21	3,832741E+22	2,836606E+21	4,116402E+22
-209	1,916407E+22	1,916365E+22	1,418164E+21	1,418457E+21	3,832772E+22	2,836620E+21	4,116434E+22
-208	1,916353E+22	1,916291E+22	1,418314E+21	1,418250E+21	3,832644E+22	2,836565E+21	4,116300E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-207	1,916248E+22	1,916332E+22	1,418470E+21	1,418387E+21	3,832580E+22	2,836857E+21	4,116265E+22
-206	1,916286E+22	1,916204E+22	1,418265E+21	1,418596E+21	3,832490E+22	2,836860E+21	4,116176E+22
-205	1,916167E+22	1,916174E+22	1,418609E+21	1,418360E+21	3,832342E+22	2,836969E+21	4,116039E+22
-204	1,916120E+22	1,916169E+22	1,418577E+21	1,418639E+21	3,832289E+22	2,837216E+21	4,116011E+22
-203	1,916122E+22	1,916020E+22	1,418498E+21	1,418644E+21	3,832142E+22	2,837141E+21	4,115856E+22
-202	1,915976E+22	1,916061E+22	1,418826E+21	1,418499E+21	3,832037E+22	2,837325E+21	4,115769E+22
-201	1,916004E+22	1,916027E+22	1,418572E+21	1,418829E+21	3,832031E+22	2,837400E+21	4,115771E+22
-200	1,916013E+22	1,915941E+22	1,418602E+21	1,418632E+21	3,831954E+22	2,837235E+21	4,115678E+22
-199	1,915958E+22	1,916047E+22	1,418760E+21	1,418558E+21	3,832004E+22	2,837318E+21	4,115736E+22
-198	1,916091E+22	1,916020E+22	1,418457E+21	1,418746E+21	3,832111E+22	2,837203E+21	4,115832E+22
-197	1,916089E+22	1,916071E+22	1,418628E+21	1,418386E+21	3,832160E+22	2,837013E+21	4,115862E+22
-196	1,916092E+22	1,916195E+22	1,418589E+21	1,418523E+21	3,832287E+22	2,837112E+21	4,115998E+22
-195	1,916194E+22	1,916135E+22	1,418326E+21	1,418552E+21	3,832329E+22	2,836878E+21	4,116017E+22
-194	1,916150E+22	1,916217E+22	1,418581E+21	1,418279E+21	3,832367E+22	2,836859E+21	4,116053E+22
-193	1,916217E+22	1,916258E+22	1,418380E+21	1,418545E+21	3,832475E+22	2,836925E+21	4,116167E+22
-192	1,916285E+22	1,916177E+22	1,418299E+21	1,418396E+21	3,832462E+22	2,836695E+21	4,116131E+22
-191	1,916194E+22	1,916264E+22	1,418565E+21	1,418288E+21	3,832458E+22	2,836853E+21	4,116144E+22
-190	1,916238E+22	1,916217E+22	1,418310E+21	1,418616E+21	3,832455E+22	2,836926E+21	4,116147E+22
-189	1,916191E+22	1,916144E+22	1,418483E+21	1,418404E+21	3,832335E+22	2,836887E+21	4,116024E+22
-188	1,916083E+22	1,916181E+22	1,418653E+21	1,418547E+21	3,832264E+22	2,837200E+21	4,115984E+22
-187	1,916116E+22	1,916031E+22	1,418439E+21	1,418746E+21	3,832147E+22	2,837185E+21	4,115865E+22
-186	1,916011E+22	1,915995E+22	1,418793E+21	1,418521E+21	3,832006E+22	2,837314E+21	4,115737E+22
-185	1,915942E+22	1,916004E+22	1,418748E+21	1,418804E+21	3,831946E+22	2,837551E+21	4,115701E+22
-184	1,915952E+22	1,915853E+22	1,418628E+21	1,418833E+21	3,831805E+22	2,837461E+21	4,115551E+22
-183	1,915815E+22	1,915892E+22	1,418939E+21	1,418659E+21	3,831707E+22	2,837598E+21	4,115467E+22
-182	1,915849E+22	1,915868E+22	1,418711E+21	1,418971E+21	3,831717E+22	2,837682E+21	4,115485E+22
-181	1,915890E+22	1,915805E+22	1,418758E+21	1,418732E+21	3,831695E+22	2,837489E+21	4,115444E+22
-180	1,915835E+22	1,915931E+22	1,418917E+21	1,418664E+21	3,831766E+22	2,837581E+21	4,115524E+22
-179	1,915945E+22	1,915896E+22	1,418589E+21	1,418865E+21	3,831841E+22	2,837454E+21	4,115587E+22
-178	1,915947E+22	1,915938E+22	1,418753E+21	1,418537E+21	3,831885E+22	2,837291E+21	4,115614E+22
-177	1,915945E+22	1,916060E+22	1,418710E+21	1,418670E+21	3,832005E+22	2,837380E+21	4,115743E+22
-176	1,916071E+22	1,915989E+22	1,418424E+21	1,418697E+21	3,832060E+22	2,837122E+21	4,115772E+22
-175	1,916036E+22	1,916070E+22	1,418684E+21	1,418391E+21	3,832107E+22	2,837075E+21	4,115814E+22
-174	1,916085E+22	1,916117E+22	1,418522E+21	1,418663E+21	3,832203E+22	2,837185E+21	4,115921E+22
-173	1,916144E+22	1,916047E+22	1,418459E+21	1,418522E+21	3,832191E+22	2,836981E+21	4,115889E+22
-172	1,916032E+22	1,916131E+22	1,418726E+21	1,418453E+21	3,832163E+22	2,837179E+21	4,115881E+22
-171	1,916059E+22	1,916049E+22	1,418468E+21	1,418787E+21	3,832108E+22	2,837255E+21	4,115833E+22
-170	1,916034E+22	1,915962E+22	1,418654E+21	1,418579E+21	3,831996E+22	2,837234E+21	4,115719E+22
-169	1,915921E+22	1,916008E+22	1,418830E+21	1,418694E+21	3,831929E+22	2,837525E+21	4,115682E+22
-168	1,915960E+22	1,915861E+22	1,418594E+21	1,418905E+21	3,831821E+22	2,837499E+21	4,115571E+22
-167	1,915842E+22	1,915831E+22	1,418932E+21	1,418674E+21	3,831672E+22	2,837606E+21	4,115433E+22
-166	1,915751E+22	1,915842E+22	1,418906E+21	1,418973E+21	3,831592E+22	2,837878E+21	4,115380E+22
-165	1,915783E+22	1,915698E+22	1,418794E+21	1,418988E+21	3,831480E+22	2,837783E+21	4,115259E+22
-164	1,915664E+22	1,915743E+22	1,419094E+21	1,418808E+21	3,831407E+22	2,837902E+21	4,115197E+22
-163	1,915704E+22	1,915709E+22	1,418860E+21	1,419100E+21	3,831413E+22	2,837960E+21	4,115209E+22
-162	1,915769E+22	1,915657E+22	1,418903E+21	1,418868E+21	3,831426E+22	2,837771E+21	4,115203E+22
-161	1,915694E+22	1,915804E+22	1,419049E+21	1,418795E+21	3,831499E+22	2,837844E+21	4,115283E+22
-160	1,915810E+22	1,915767E+22	1,418690E+21	1,419018E+21	3,831577E+22	2,837708E+21	4,115348E+22
-159	1,915820E+22	1,915799E+22	1,418843E+21	1,418665E+21	3,831618E+22	2,837508E+21	4,115369E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-158	1,915809E+22	1,915923E+22	1,418838E+21	1,418782E+21	3,831732E+22	2,837619E+21	4,115494E+22
-157	1,915952E+22	1,915866E+22	1,418573E+21	1,418787E+21	3,831818E+22	2,837360E+21	4,115554E+22
-156	1,915908E+22	1,915949E+22	1,418833E+21	1,418504E+21	3,831857E+22	2,837338E+21	4,115590E+22
-155	1,915924E+22	1,915975E+22	1,418669E+21	1,418801E+21	3,831899E+22	2,837471E+21	4,115646E+22
-154	1,915988E+22	1,915891E+22	1,418609E+21	1,418698E+21	3,831878E+22	2,837308E+21	4,115609E+22
-153	1,915867E+22	1,915972E+22	1,418876E+21	1,418622E+21	3,831839E+22	2,837498E+21	4,115589E+22
-152	1,915913E+22	1,915881E+22	1,418605E+21	1,418958E+21	3,831793E+22	2,837563E+21	4,115550E+22
-151	1,915892E+22	1,915791E+22	1,418794E+21	1,418725E+21	3,831684E+22	2,837519E+21	4,115436E+22
-150	1,915755E+22	1,915848E+22	1,419005E+21	1,418843E+21	3,831603E+22	2,837848E+21	4,115388E+22
-149	1,915784E+22	1,915713E+22	1,418777E+21	1,419062E+21	3,831497E+22	2,837839E+21	4,115281E+22
-148	1,915657E+22	1,915674E+22	1,419101E+21	1,418860E+21	3,831330E+22	2,837961E+21	4,115126E+22
-147	1,915564E+22	1,915656E+22	1,419068E+21	1,419146E+21	3,831219E+22	2,838214E+21	4,115041E+22
-146	1,915633E+22	1,915514E+22	1,418955E+21	1,419152E+21	3,831148E+22	2,838108E+21	4,114959E+22
-145	1,915526E+22	1,915586E+22	1,419241E+21	1,418937E+21	3,831112E+22	2,838178E+21	4,114930E+22
-144	1,915580E+22	1,915566E+22	1,418983E+21	1,419233E+21	3,831147E+22	2,838216E+21	4,114968E+22
-143	1,915635E+22	1,915530E+22	1,419004E+21	1,418988E+21	3,831165E+22	2,837992E+21	4,114964E+22
-142	1,915545E+22	1,915683E+22	1,419172E+21	1,418919E+21	3,831228E+22	2,838091E+21	4,115037E+22
-141	1,915672E+22	1,915650E+22	1,418829E+21	1,419122E+21	3,831322E+22	2,837951E+21	4,115117E+22
-140	1,915690E+22	1,915678E+22	1,418980E+21	1,418777E+21	3,831368E+22	2,837758E+21	4,115144E+22
-139	1,915671E+22	1,915778E+22	1,418986E+21	1,418891E+21	3,831449E+22	2,837876E+21	4,115236E+22
-138	1,915823E+22	1,915721E+22	1,418724E+21	1,418929E+21	3,831543E+22	2,837653E+21	4,115308E+22
-137	1,915756E+22	1,915811E+22	1,418964E+21	1,418663E+21	3,831567E+22	2,837628E+21	4,115330E+22
-136	1,915776E+22	1,915820E+22	1,418783E+21	1,418988E+21	3,831596E+22	2,837771E+21	4,115373E+22
-135	1,915846E+22	1,915727E+22	1,418719E+21	1,418861E+21	3,831573E+22	2,837580E+21	4,115331E+22
-134	1,915718E+22	1,915812E+22	1,419029E+21	1,418765E+21	3,831530E+22	2,837794E+21	4,115310E+22
-133	1,915767E+22	1,915736E+22	1,418791E+21	1,419076E+21	3,831503E+22	2,837867E+21	4,115290E+22
-132	1,915728E+22	1,915649E+22	1,418978E+21	1,418874E+21	3,831377E+22	2,837852E+21	4,115162E+22
-131	1,915555E+22	1,915678E+22	1,419185E+21	1,419012E+21	3,831234E+22	2,838197E+21	4,115053E+22
-130	1,915599E+22	1,915531E+22	1,418953E+21	1,419259E+21	3,831130E+22	2,838212E+21	4,114951E+22
-129	1,915479E+22	1,915493E+22	1,419256E+21	1,419034E+21	3,830971E+22	2,838290E+21	4,114800E+22
-128	1,915420E+22	1,915476E+22	1,419203E+21	1,419309E+21	3,830896E+22	2,838512E+21	4,114747E+22
-127	1,915508E+22	1,915353E+22	1,419078E+21	1,419278E+21	3,830861E+22	2,838357E+21	4,114697E+22
-126	1,915385E+22	1,915452E+22	1,419384E+21	1,419060E+21	3,830837E+22	2,838444E+21	4,114682E+22
-125	1,915434E+22	1,915457E+22	1,419136E+21	1,419351E+21	3,830892E+22	2,838486E+21	4,114740E+22
-124	1,915483E+22	1,915415E+22	1,419141E+21	1,419125E+21	3,830897E+22	2,838266E+21	4,114724E+22
-123	1,915386E+22	1,915536E+22	1,419314E+21	1,419045E+21	3,830921E+22	2,838359E+21	4,114757E+22
-122	1,915541E+22	1,915500E+22	1,418974E+21	1,419245E+21	3,831041E+22	2,838220E+21	4,114863E+22
-121	1,915559E+22	1,915539E+22	1,419112E+21	1,418894E+21	3,831097E+22	2,838006E+21	4,114898E+22
-120	1,915548E+22	1,915635E+22	1,419097E+21	1,419036E+21	3,831184E+22	2,838133E+21	4,114997E+22
-119	1,915690E+22	1,915583E+22	1,418817E+21	1,419079E+21	3,831273E+22	2,837896E+21	4,115062E+22
-118	1,915612E+22	1,915674E+22	1,419083E+21	1,418821E+21	3,831286E+22	2,837904E+21	4,115076E+22
-117	1,915639E+22	1,915690E+22	1,418932E+21	1,419118E+21	3,831329E+22	2,838050E+21	4,115134E+22
-116	1,915707E+22	1,915592E+22	1,418879E+21	1,418996E+21	3,831299E+22	2,837874E+21	4,115087E+22
-115	1,915557E+22	1,915649E+22	1,419217E+21	1,418899E+21	3,831206E+22	2,838116E+21	4,115017E+22
-114	1,915597E+22	1,915571E+22	1,418987E+21	1,419237E+21	3,831169E+22	2,838225E+21	4,114991E+22
-113	1,915535E+22	1,915483E+22	1,419153E+21	1,419063E+21	3,831017E+22	2,838216E+21	4,114839E+22
-112	1,915376E+22	1,915485E+22	1,419332E+21	1,419218E+21	3,830860E+22	2,838550E+21	4,114715E+22
-111	1,915435E+22	1,915338E+22	1,419084E+21	1,419431E+21	3,830773E+22	2,838515E+21	4,114624E+22
-110	1,915328E+22	1,915321E+22	1,419400E+21	1,419180E+21	3,830649E+22	2,838580E+21	4,114507E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-109	1,915282E+22	1,915336E+22	1,419372E+21	1,419418E+21	3,830618E+22	2,838790E+21	4,114497E+22
-108	1,915359E+22	1,915234E+22	1,419238E+21	1,419404E+21	3,830593E+22	2,838641E+21	4,114457E+22
-107	1,915211E+22	1,915314E+22	1,419544E+21	1,419197E+21	3,830524E+22	2,838741E+21	4,114398E+22
-106	1,915274E+22	1,915313E+22	1,419293E+21	1,419498E+21	3,830587E+22	2,838791E+21	4,114466E+22
-105	1,915328E+22	1,915272E+22	1,419272E+21	1,419266E+21	3,830600E+22	2,838538E+21	4,114454E+22
-104	1,915263E+22	1,915377E+22	1,419421E+21	1,419187E+21	3,830640E+22	2,838608E+21	4,114500E+22
-103	1,915430E+22	1,915355E+22	1,419071E+21	1,419368E+21	3,830785E+22	2,838438E+21	4,114629E+22
-102	1,915437E+22	1,915412E+22	1,419219E+21	1,419029E+21	3,830849E+22	2,838248E+21	4,114674E+22
-101	1,915421E+22	1,915524E+22	1,419225E+21	1,419169E+21	3,830945E+22	2,838394E+21	4,114784E+22
-100	1,915554E+22	1,915464E+22	1,418950E+21	1,419222E+21	3,831018E+22	2,838172E+21	4,114835E+22
-99	1,915461E+22	1,915523E+22	1,419241E+21	1,418955E+21	3,830983E+22	2,838196E+21	4,114803E+22
-98	1,915499E+22	1,915536E+22	1,419114E+21	1,419242E+21	3,831035E+22	2,838356E+21	4,114870E+22
-97	1,915547E+22	1,915440E+22	1,419057E+21	1,419132E+21	3,830987E+22	2,838189E+21	4,114806E+22
-96	1,915389E+22	1,915478E+22	1,419375E+21	1,419076E+21	3,830867E+22	2,838450E+21	4,114712E+22
-95	1,915419E+22	1,915396E+22	1,419122E+21	1,419419E+21	3,830815E+22	2,838541E+21	4,114669E+22
-94	1,915353E+22	1,915304E+22	1,419298E+21	1,419252E+21	3,830657E+22	2,838550E+21	4,114512E+22
-93	1,915217E+22	1,915319E+22	1,419492E+21	1,419372E+21	3,830536E+22	2,838864E+21	4,114422E+22
-92	1,915288E+22	1,915183E+22	1,419248E+21	1,419573E+21	3,830471E+22	2,838820E+21	4,114353E+22
-91	1,915169E+22	1,915159E+22	1,419580E+21	1,419317E+21	3,830328E+22	2,838896E+21	4,114217E+22
-90	1,915123E+22	1,915190E+22	1,419553E+21	1,419566E+21	3,830314E+22	2,839119E+21	4,114226E+22
-89	1,915181E+22	1,915094E+22	1,419393E+21	1,419570E+21	3,830275E+22	2,838963E+21	4,114171E+22
-88	1,915054E+22	1,915147E+22	1,419665E+21	1,419373E+21	3,830202E+22	2,839039E+21	4,114105E+22
-87	1,915137E+22	1,915150E+22	1,419395E+21	1,419631E+21	3,830287E+22	2,839027E+21	4,114189E+22
-86	1,915205E+22	1,915127E+22	1,419383E+21	1,419384E+21	3,830332E+22	2,838767E+21	4,114209E+22
-85	1,915154E+22	1,915257E+22	1,419548E+21	1,419284E+21	3,830411E+22	2,838832E+21	4,114295E+22
-84	1,915307E+22	1,915252E+22	1,419196E+21	1,419483E+21	3,830559E+22	2,838678E+21	4,114426E+22
-83	1,915290E+22	1,915286E+22	1,419356E+21	1,419162E+21	3,830576E+22	2,838518E+21	4,114428E+22
-82	1,915281E+22	1,915390E+22	1,419380E+21	1,419300E+21	3,830671E+22	2,838681E+21	4,114539E+22
-81	1,915405E+22	1,915329E+22	1,419103E+21	1,419354E+21	3,830734E+22	2,838457E+21	4,114580E+22
-80	1,915327E+22	1,915357E+22	1,419386E+21	1,419104E+21	3,830684E+22	2,838490E+21	4,114533E+22
-79	1,915351E+22	1,915373E+22	1,419256E+21	1,419382E+21	3,830724E+22	2,838637E+21	4,114588E+22
-78	1,915378E+22	1,915286E+22	1,419202E+21	1,419310E+21	3,830663E+22	2,838512E+21	4,114515E+22
-77	1,915218E+22	1,915319E+22	1,419530E+21	1,419257E+21	3,830537E+22	2,838787E+21	4,114416E+22
-76	1,915247E+22	1,915230E+22	1,419277E+21	1,419596E+21	3,830477E+22	2,838874E+21	4,114364E+22
-75	1,915181E+22	1,915116E+22	1,419470E+21	1,419413E+21	3,830297E+22	2,838882E+21	4,114185E+22
-74	1,915064E+22	1,915146E+22	1,419678E+21	1,419510E+21	3,830209E+22	2,839189E+21	4,114128E+22
-73	1,915122E+22	1,915032E+22	1,419430E+21	1,419719E+21	3,830154E+22	2,839149E+21	4,114069E+22
-72	1,915005E+22	1,914996E+22	1,419728E+21	1,419495E+21	3,830001E+22	2,839223E+21	4,113923E+22
-71	1,914957E+22	1,915033E+22	1,419679E+21	1,419726E+21	3,829990E+22	2,839404E+21	4,113931E+22
-70	1,915022E+22	1,914944E+22	1,419514E+21	1,419728E+21	3,829965E+22	2,839242E+21	4,113890E+22
-69	1,914924E+22	1,915006E+22	1,419792E+21	1,419494E+21	3,829930E+22	2,839286E+21	4,113859E+22
-68	1,915017E+22	1,915022E+22	1,419525E+21	1,419730E+21	3,830039E+22	2,839255E+21	4,113964E+22
-67	1,915073E+22	1,914992E+22	1,419529E+21	1,419492E+21	3,830066E+22	2,839022E+21	4,113968E+22
-66	1,915024E+22	1,915138E+22	1,419696E+21	1,419409E+21	3,830162E+22	2,839105E+21	4,114073E+22
-65	1,915157E+22	1,915132E+22	1,419338E+21	1,419630E+21	3,830289E+22	2,838967E+21	4,114186E+22
-64	1,915155E+22	1,915132E+22	1,419473E+21	1,419326E+21	3,830287E+22	2,838799E+21	4,114167E+22
-63	1,915153E+22	1,915236E+22	1,419490E+21	1,419425E+21	3,830389E+22	2,838915E+21	4,114281E+22
-62	1,915271E+22	1,915183E+22	1,419231E+21	1,419481E+21	3,830454E+22	2,838712E+21	4,114325E+22
-61	1,915190E+22	1,915220E+22	1,419535E+21	1,419237E+21	3,830410E+22	2,838771E+21	4,114287E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-60	1,915190E+22	1,915237E+22	1,419405E+21	1,419530E+21	3,830427E+22	2,838935E+21	4,114320E+22
-59	1,915192E+22	1,915118E+22	1,419370E+21	1,419488E+21	3,830310E+22	2,838859E+21	4,114196E+22
-58	1,915048E+22	1,915145E+22	1,419702E+21	1,419427E+21	3,830193E+22	2,839129E+21	4,114106E+22
-57	1,915076E+22	1,915059E+22	1,419453E+21	1,419761E+21	3,830135E+22	2,839214E+21	4,114057E+22
-56	1,915033E+22	1,914927E+22	1,419628E+21	1,419585E+21	3,829960E+22	2,839213E+21	4,113881E+22
-55	1,914912E+22	1,914976E+22	1,419825E+21	1,419661E+21	3,829888E+22	2,839486E+21	4,113836E+22
-54	1,914952E+22	1,914883E+22	1,419580E+21	1,419893E+21	3,829835E+22	2,839474E+21	4,113782E+22
-53	1,914842E+22	1,914849E+22	1,419878E+21	1,419662E+21	3,829691E+22	2,839540E+21	4,113645E+22
-52	1,914798E+22	1,914886E+22	1,419822E+21	1,419860E+21	3,829684E+22	2,839682E+21	4,113652E+22
-51	1,914866E+22	1,914783E+22	1,419671E+21	1,419850E+21	3,829649E+22	2,839521E+21	4,113601E+22
-50	1,914791E+22	1,914859E+22	1,419951E+21	1,419593E+21	3,829650E+22	2,839545E+21	4,113605E+22
-49	1,914873E+22	1,914897E+22	1,419680E+21	1,419849E+21	3,829770E+22	2,839529E+21	4,113723E+22
-48	1,914937E+22	1,914852E+22	1,419643E+21	1,419649E+21	3,829789E+22	2,839293E+21	4,113718E+22
-47	1,914888E+22	1,914999E+22	1,419792E+21	1,419553E+21	3,829887E+22	2,839345E+21	4,113822E+22
-46	1,915024E+22	1,915001E+22	1,419442E+21	1,419772E+21	3,830025E+22	2,839214E+21	4,113947E+22
-45	1,915042E+22	1,915001E+22	1,419590E+21	1,419449E+21	3,830043E+22	2,839039E+21	4,113947E+22
-44	1,915032E+22	1,915108E+22	1,419625E+21	1,419524E+21	3,830140E+22	2,839149E+21	4,114055E+22
-43	1,915119E+22	1,915040E+22	1,419395E+21	1,419612E+21	3,830159E+22	2,839007E+21	4,114060E+22
-42	1,915027E+22	1,915074E+22	1,419705E+21	1,419394E+21	3,830101E+22	2,839099E+21	4,114011E+22
-41	1,915007E+22	1,915080E+22	1,419578E+21	1,419712E+21	3,830087E+22	2,839290E+21	4,114016E+22
-40	1,915028E+22	1,914923E+22	1,419518E+21	1,419684E+21	3,829951E+22	2,839203E+21	4,113871E+22
-39	1,914899E+22	1,914956E+22	1,419837E+21	1,419583E+21	3,829855E+22	2,839420E+21	4,113797E+22
-38	1,914925E+22	1,914892E+22	1,419609E+21	1,419913E+21	3,829817E+22	2,839521E+21	4,113769E+22
-37	1,914881E+22	1,914780E+22	1,419790E+21	1,419741E+21	3,829661E+22	2,839531E+21	4,113614E+22
-36	1,914742E+22	1,914837E+22	1,419984E+21	1,419805E+21	3,829579E+22	2,839789E+21	4,113558E+22
-35	1,914762E+22	1,914723E+22	1,419761E+21	1,420051E+21	3,829486E+22	2,839813E+21	4,113467E+22
-34	1,914673E+22	1,914691E+22	1,420052E+21	1,419805E+21	3,829364E+22	2,839857E+21	4,113350E+22
-33	1,914636E+22	1,914731E+22	1,419990E+21	1,419992E+21	3,829367E+22	2,839982E+21	4,113365E+22
-32	1,914727E+22	1,914612E+22	1,419807E+21	1,419998E+21	3,829339E+22	2,839805E+21	4,113320E+22
-31	1,914663E+22	1,914711E+22	1,420052E+21	1,419733E+21	3,829374E+22	2,839785E+21	4,113352E+22
-30	1,914736E+22	1,914769E+22	1,419785E+21	1,420008E+21	3,829505E+22	2,839793E+21	4,113484E+22
-29	1,914815E+22	1,914728E+22	1,419746E+21	1,419799E+21	3,829543E+22	2,839546E+21	4,113498E+22
-28	1,914771E+22	1,914876E+22	1,419900E+21	1,419655E+21	3,829647E+22	2,839555E+21	4,113603E+22
-27	1,914894E+22	1,914866E+22	1,419589E+21	1,419866E+21	3,829759E+22	2,839454E+21	4,113705E+22
-26	1,914912E+22	1,914874E+22	1,419753E+21	1,419545E+21	3,829785E+22	2,839298E+21	4,113715E+22
-25	1,914871E+22	1,914982E+22	1,419797E+21	1,419657E+21	3,829853E+22	2,839454E+21	4,113798E+22
-24	1,914952E+22	1,914878E+22	1,419540E+21	1,419796E+21	3,829830E+22	2,839336E+21	4,113763E+22
-23	1,914865E+22	1,914900E+22	1,419827E+21	1,419573E+21	3,829765E+22	2,839400E+21	4,113705E+22
-22	1,914849E+22	1,914909E+22	1,419715E+21	1,419888E+21	3,829758E+22	2,839603E+21	4,113718E+22
-21	1,914891E+22	1,914757E+22	1,419664E+21	1,419844E+21	3,829649E+22	2,839508E+21	4,113599E+22
-20	1,914756E+22	1,914803E+22	1,419995E+21	1,419710E+21	3,829559E+22	2,839704E+21	4,113529E+22
-19	1,914749E+22	1,914739E+22	1,419803E+21	1,420067E+21	3,829488E+22	2,839870E+21	4,113475E+22
-18	1,914695E+22	1,914629E+22	1,419986E+21	1,419911E+21	3,829324E+22	2,839897E+21	4,113314E+22
-17	1,914543E+22	1,914676E+22	1,420176E+21	1,419985E+21	3,829219E+22	2,840160E+21	4,113235E+22
-16	1,914589E+22	1,914528E+22	1,419914E+21	1,420231E+21	3,829118E+22	2,840145E+21	4,113132E+22
-15	1,914525E+22	1,914504E+22	1,420173E+21	1,419946E+21	3,829029E+22	2,840119E+21	4,113041E+22
-14	1,914497E+22	1,914574E+22	1,420117E+21	1,420128E+21	3,829071E+22	2,840245E+21	4,113095E+22
-13	1,914602E+22	1,914482E+22	1,419922E+21	1,420139E+21	3,829084E+22	2,840061E+21	4,113090E+22
-12	1,914534E+22	1,914596E+22	1,420155E+21	1,419851E+21	3,829130E+22	2,840006E+21	4,113131E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-11	1,914595E+22	1,914646E+22	1,419925E+21	1,420130E+21	3,829241E+22	2,840055E+21	4,113247E+22
-10	1,914686E+22	1,914611E+22	1,419890E+21	1,419901E+21	3,829297E+22	2,839791E+21	4,113276E+22
-9	1,914637E+22	1,914754E+22	1,420060E+21	1,419757E+21	3,829391E+22	2,839817E+21	4,113373E+22
-8	1,914759E+22	1,914716E+22	1,419733E+21	1,419993E+21	3,829474E+22	2,839726E+21	4,113447E+22
-7	1,914768E+22	1,914726E+22	1,419873E+21	1,419698E+21	3,829495E+22	2,839571E+21	4,113452E+22
-6	1,914710E+22	1,914833E+22	1,419926E+21	1,419842E+21	3,829544E+22	2,839769E+21	4,113521E+22
-5	1,914805E+22	1,914720E+22	1,419668E+21	1,419986E+21	3,829525E+22	2,839653E+21	4,113490E+22
-4	1,914728E+22	1,914739E+22	1,419950E+21	1,419713E+21	3,829467E+22	2,839663E+21	4,113434E+22
-3	1,914698E+22	1,914742E+22	1,419891E+21	1,420017E+21	3,829440E+22	2,839908E+21	4,113431E+22
-2	1,914734E+22	1,914611E+22	1,419858E+21	1,419973E+21	3,829345E+22	2,839831E+21	4,113328E+22
-1	1,914572E+22	1,914657E+22	1,420196E+21	1,419872E+21	3,829229E+22	2,840068E+21	4,113236E+22
1	1,914554E+22	1,914559E+22	1,419982E+21	1,420261E+21	3,829113E+22	2,840242E+21	4,113137E+22
2	1,914513E+22	1,914444E+22	1,420129E+21	1,420102E+21	3,828957E+22	2,840231E+21	4,112980E+22
3	1,914373E+22	1,914494E+22	1,420316E+21	1,420158E+21	3,828867E+22	2,840474E+21	4,112915E+22
4	1,914451E+22	1,914358E+22	1,420048E+21	1,420382E+21	3,828809E+22	2,840430E+21	4,112852E+22
5	1,914398E+22	1,914356E+22	1,420292E+21	1,420055E+21	3,828755E+22	2,840347E+21	4,112789E+22
6	1,914350E+22	1,914440E+22	1,420271E+21	1,420258E+21	3,828790E+22	2,840529E+21	4,112843E+22
7	1,914454E+22	1,914367E+22	1,420077E+21	1,420271E+21	3,828822E+22	2,840348E+21	4,112856E+22
8	1,914384E+22	1,914475E+22	1,420311E+21	1,419987E+21	3,828859E+22	2,840299E+21	4,112889E+22
9	1,914459E+22	1,914494E+22	1,420063E+21	1,420257E+21	3,828953E+22	2,840320E+21	4,112985E+22
10	1,914561E+22	1,914464E+22	1,420004E+21	1,420014E+21	3,829025E+22	2,840018E+21	4,113027E+22
11	1,914502E+22	1,914618E+22	1,420186E+21	1,419888E+21	3,829120E+22	2,840074E+21	4,113127E+22
12	1,914622E+22	1,914584E+22	1,419850E+21	1,420150E+21	3,829206E+22	2,840000E+21	4,113206E+22
13	1,914625E+22	1,914590E+22	1,419981E+21	1,419843E+21	3,829215E+22	2,839824E+21	4,113197E+22
14	1,914557E+22	1,914681E+22	1,420078E+21	1,419998E+21	3,829239E+22	2,840076E+21	4,113246E+22
15	1,914660E+22	1,914574E+22	1,419833E+21	1,420120E+21	3,829234E+22	2,839953E+21	4,113229E+22
16	1,914577E+22	1,914588E+22	1,420133E+21	1,419854E+21	3,829166E+22	2,839988E+21	4,113164E+22
17	1,914538E+22	1,914570E+22	1,420067E+21	1,420176E+21	3,829108E+22	2,840243E+21	4,113132E+22
18	1,914560E+22	1,914443E+22	1,420013E+21	1,420158E+21	3,829003E+22	2,840170E+21	4,113020E+22
19	1,914382E+22	1,914485E+22	1,420358E+21	1,420076E+21	3,828868E+22	2,840435E+21	4,112911E+22
20	1,914383E+22	1,914379E+22	1,420132E+21	1,420451E+21	3,828762E+22	2,840583E+21	4,112820E+22
21	1,914359E+22	1,914266E+22	1,420263E+21	1,420236E+21	3,828625E+22	2,840499E+21	4,112675E+22
22	1,914218E+22	1,914324E+22	1,420486E+21	1,420282E+21	3,828541E+22	2,840769E+21	4,112618E+22
23	1,914298E+22	1,914221E+22	1,420222E+21	1,420499E+21	3,828519E+22	2,840722E+21	4,112591E+22
24	1,914237E+22	1,914231E+22	1,420458E+21	1,420202E+21	3,828468E+22	2,840659E+21	4,112534E+22
25	1,914192E+22	1,914290E+22	1,420417E+21	1,420416E+21	3,828482E+22	2,840833E+21	4,112565E+22
26	1,914312E+22	1,914223E+22	1,420194E+21	1,420418E+21	3,828536E+22	2,840612E+21	4,112597E+22
27	1,914252E+22	1,914334E+22	1,420429E+21	1,420122E+21	3,828586E+22	2,840551E+21	4,112642E+22
28	1,914345E+22	1,914358E+22	1,420177E+21	1,420378E+21	3,828703E+22	2,840555E+21	4,112758E+22
29	1,914445E+22	1,914338E+22	1,420105E+21	1,420119E+21	3,828783E+22	2,840224E+21	4,112805E+22
30	1,914357E+22	1,914486E+22	1,420327E+21	1,420031E+21	3,828843E+22	2,840357E+21	4,112879E+22
31	1,914469E+22	1,914460E+22	1,420003E+21	1,420298E+21	3,828929E+22	2,840301E+21	4,112959E+22
32	1,914477E+22	1,914446E+22	1,420136E+21	1,420000E+21	3,828924E+22	2,840136E+21	4,112937E+22
33	1,914414E+22	1,914505E+22	1,420231E+21	1,420141E+21	3,828919E+22	2,840371E+21	4,112956E+22
34	1,914519E+22	1,914409E+22	1,419977E+21	1,420258E+21	3,828929E+22	2,840235E+21	4,112952E+22
35	1,914418E+22	1,914432E+22	1,420293E+21	1,420015E+21	3,828850E+22	2,840309E+21	4,112881E+22
36	1,914370E+22	1,914414E+22	1,420223E+21	1,420355E+21	3,828784E+22	2,840578E+21	4,112842E+22
37	1,914386E+22	1,914281E+22	1,420156E+21	1,420322E+21	3,828667E+22	2,840478E+21	4,112714E+22
38	1,914200E+22	1,914309E+22	1,420537E+21	1,420245E+21	3,828509E+22	2,840782E+21	4,112587E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
39	1,914211E+22	1,914216E+22	1,420318E+21	1,420588E+21	3,828427E+22	2,840906E+21	4,112517E+22
40	1,914196E+22	1,914103E+22	1,420449E+21	1,420383E+21	3,828299E+22	2,840832E+21	4,112382E+22
41	1,914056E+22	1,914149E+22	1,420652E+21	1,420440E+21	3,828205E+22	2,841093E+21	4,112314E+22
42	1,914137E+22	1,914067E+22	1,420361E+21	1,420677E+21	3,828203E+22	2,841038E+21	4,112307E+22
43	1,914078E+22	1,914082E+22	1,420589E+21	1,420386E+21	3,828160E+22	2,840975E+21	4,112258E+22
44	1,914061E+22	1,914141E+22	1,420532E+21	1,420570E+21	3,828203E+22	2,841102E+21	4,112313E+22
45	1,914196E+22	1,914084E+22	1,420292E+21	1,420509E+21	3,828280E+22	2,840801E+21	4,112360E+22
46	1,914127E+22	1,914202E+22	1,420569E+21	1,420218E+21	3,828329E+22	2,840787E+21	4,112408E+22
47	1,914207E+22	1,914249E+22	1,420328E+21	1,420469E+21	3,828456E+22	2,840796E+21	4,112535E+22
48	1,914292E+22	1,914223E+22	1,420255E+21	1,420260E+21	3,828515E+22	2,840516E+21	4,112567E+22
49	1,914206E+22	1,914333E+22	1,420462E+21	1,420190E+21	3,828539E+22	2,840653E+21	4,112604E+22
50	1,914330E+22	1,914304E+22	1,420127E+21	1,420453E+21	3,828634E+22	2,840579E+21	4,112692E+22
51	1,914343E+22	1,914291E+22	1,420268E+21	1,420149E+21	3,828634E+22	2,840416E+21	4,112676E+22
52	1,914290E+22	1,914350E+22	1,420365E+21	1,420279E+21	3,828640E+22	2,840643E+21	4,112705E+22
53	1,914377E+22	1,914266E+22	1,420109E+21	1,420386E+21	3,828643E+22	2,840495E+21	4,112693E+22
54	1,914241E+22	1,914282E+22	1,420471E+21	1,420193E+21	3,828523E+22	2,840664E+21	4,112589E+22
55	1,914179E+22	1,914264E+22	1,420415E+21	1,420521E+21	3,828443E+22	2,840936E+21	4,112536E+22
56	1,914203E+22	1,914110E+22	1,420348E+21	1,420503E+21	3,828313E+22	2,840851E+21	4,112398E+22
57	1,914028E+22	1,914105E+22	1,420711E+21	1,420408E+21	3,828133E+22	2,841119E+21	4,112245E+22
58	1,914050E+22	1,914030E+22	1,420476E+21	1,420745E+21	3,828080E+22	2,841221E+21	4,112202E+22
59	1,914031E+22	1,913938E+22	1,420597E+21	1,420557E+21	3,827969E+22	2,841155E+21	4,112084E+22
60	1,913903E+22	1,913994E+22	1,420779E+21	1,420619E+21	3,827897E+22	2,841398E+21	4,112037E+22
61	1,913994E+22	1,913925E+22	1,420474E+21	1,420818E+21	3,827919E+22	2,841292E+21	4,112048E+22
62	1,913936E+22	1,913941E+22	1,420731E+21	1,420519E+21	3,827877E+22	2,841251E+21	4,112002E+22
63	1,913925E+22	1,914020E+22	1,420688E+21	1,420652E+21	3,827945E+22	2,841340E+21	4,112079E+22
64	1,914065E+22	1,913962E+22	1,420448E+21	1,420611E+21	3,828027E+22	2,841059E+21	4,112133E+22
65	1,913983E+22	1,914054E+22	1,420709E+21	1,420346E+21	3,828037E+22	2,841054E+21	4,112142E+22
66	1,914056E+22	1,914111E+22	1,420452E+21	1,420626E+21	3,828167E+22	2,841078E+21	4,112275E+22
67	1,914145E+22	1,914076E+22	1,420377E+21	1,420433E+21	3,828221E+22	2,840810E+21	4,112302E+22
68	1,914086E+22	1,914177E+22	1,420569E+21	1,420344E+21	3,828263E+22	2,840913E+21	4,112354E+22
69	1,914216E+22	1,914158E+22	1,420234E+21	1,420555E+21	3,828375E+22	2,840789E+21	4,112454E+22
70	1,914208E+22	1,914150E+22	1,420421E+21	1,420274E+21	3,828358E+22	2,840695E+21	4,112428E+22
71	1,914128E+22	1,914229E+22	1,420542E+21	1,420398E+21	3,828357E+22	2,840939E+21	4,112451E+22
72	1,914196E+22	1,914127E+22	1,420295E+21	1,420558E+21	3,828324E+22	2,840853E+21	4,112409E+22
73	1,914053E+22	1,914096E+22	1,420649E+21	1,420385E+21	3,828149E+22	2,841035E+21	4,112252E+22
74	1,914001E+22	1,914075E+22	1,420578E+21	1,420704E+21	3,828076E+22	2,841282E+21	4,112204E+22
75	1,914035E+22	1,913919E+22	1,420511E+21	1,420683E+21	3,827954E+22	2,841194E+21	4,112073E+22
76	1,913884E+22	1,913919E+22	1,420848E+21	1,420579E+21	3,827803E+22	2,841427E+21	4,111946E+22
77	1,913901E+22	1,913869E+22	1,420605E+21	1,420890E+21	3,827770E+22	2,841495E+21	4,111920E+22
78	1,913866E+22	1,913790E+22	1,420755E+21	1,420732E+21	3,827656E+22	2,841488E+21	4,111805E+22
79	1,913741E+22	1,913862E+22	1,420947E+21	1,420748E+21	3,827603E+22	2,841695E+21	4,111773E+22
80	1,913843E+22	1,913787E+22	1,420645E+21	1,420942E+21	3,827630E+22	2,841587E+21	4,111789E+22
81	1,913790E+22	1,913781E+22	1,420884E+21	1,420630E+21	3,827572E+22	2,841515E+21	4,111723E+22
82	1,913781E+22	1,913877E+22	1,420829E+21	1,420763E+21	3,827658E+22	2,841591E+21	4,111817E+22
83	1,913910E+22	1,913828E+22	1,420578E+21	1,420756E+21	3,827738E+22	2,841334E+21	4,111871E+22
84	1,913848E+22	1,913912E+22	1,420805E+21	1,420509E+21	3,827760E+22	2,841315E+21	4,111891E+22
85	1,913932E+22	1,913973E+22	1,420542E+21	1,420757E+21	3,827905E+22	2,841298E+21	4,112035E+22
86	1,914022E+22	1,913941E+22	1,420499E+21	1,420570E+21	3,827963E+22	2,841070E+21	4,112070E+22
87	1,913964E+22	1,914058E+22	1,420714E+21	1,420436E+21	3,828021E+22	2,841150E+21	4,112136E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
88	1,914084E+22	1,914036E+22	1,420402E+21	1,420674E+21	3,828120E+22	2,841076E+21	4,112228E+22
89	1,914045E+22	1,913997E+22	1,420586E+21	1,420435E+21	3,828042E+22	2,841022E+21	4,112144E+22
90	1,913948E+22	1,914069E+22	1,420706E+21	1,420584E+21	3,828018E+22	2,841290E+21	4,112147E+22
91	1,914013E+22	1,913949E+22	1,420461E+21	1,420760E+21	3,827962E+22	2,841221E+21	4,112085E+22
92	1,913898E+22	1,913898E+22	1,420789E+21	1,420569E+21	3,827796E+22	2,841357E+21	4,111932E+22
93	1,913856E+22	1,913891E+22	1,420712E+21	1,420834E+21	3,827747E+22	2,841546E+21	4,111902E+22
94	1,913876E+22	1,913752E+22	1,420678E+21	1,420835E+21	3,827628E+22	2,841513E+21	4,111779E+22
95	1,913711E+22	1,913782E+22	1,421022E+21	1,420713E+21	3,827493E+22	2,841735E+21	4,111666E+22
96	1,913727E+22	1,913732E+22	1,420790E+21	1,421054E+21	3,827458E+22	2,841843E+21	4,111643E+22
97	1,913689E+22	1,913623E+22	1,420927E+21	1,420896E+21	3,827312E+22	2,841823E+21	4,111494E+22
98	1,913580E+22	1,913703E+22	1,421104E+21	1,420885E+21	3,827283E+22	2,841989E+21	4,111482E+22
99	1,913691E+22	1,913630E+22	1,420798E+21	1,421074E+21	3,827321E+22	2,841872E+21	4,111508E+22
100	1,913659E+22	1,913624E+22	1,420998E+21	1,420771E+21	3,827283E+22	2,841770E+21	4,111460E+22
101	1,913646E+22	1,913739E+22	1,420924E+21	1,420893E+21	3,827385E+22	2,841817E+21	4,111566E+22
102	1,913765E+22	1,913697E+22	1,420697E+21	1,420925E+21	3,827462E+22	2,841622E+21	4,111624E+22
103	1,913718E+22	1,913791E+22	1,420929E+21	1,420634E+21	3,827509E+22	2,841563E+21	4,111666E+22
104	1,913817E+22	1,913847E+22	1,420685E+21	1,420872E+21	3,827664E+22	2,841557E+21	4,111820E+22
105	1,913896E+22	1,913796E+22	1,420644E+21	1,420680E+21	3,827691E+22	2,841324E+21	4,111824E+22
106	1,913825E+22	1,913922E+22	1,420865E+21	1,420554E+21	3,827747E+22	2,841419E+21	4,111889E+22
107	1,913916E+22	1,913898E+22	1,420562E+21	1,420831E+21	3,827814E+22	2,841393E+21	4,111953E+22
108	1,913885E+22	1,913834E+22	1,420720E+21	1,420628E+21	3,827720E+22	2,841348E+21	4,111855E+22
109	1,913791E+22	1,913898E+22	1,420835E+21	1,420742E+21	3,827688E+22	2,841577E+21	4,111846E+22
110	1,913852E+22	1,913778E+22	1,420622E+21	1,420928E+21	3,827629E+22	2,841550E+21	4,111784E+22
111	1,913746E+22	1,913739E+22	1,420957E+21	1,420692E+21	3,827485E+22	2,841648E+21	4,111650E+22
112	1,913698E+22	1,913735E+22	1,420900E+21	1,420978E+21	3,827432E+22	2,841878E+21	4,111620E+22
113	1,913691E+22	1,913585E+22	1,420858E+21	1,421014E+21	3,827275E+22	2,841871E+21	4,111463E+22
114	1,913526E+22	1,913618E+22	1,421196E+21	1,420899E+21	3,827144E+22	2,842095E+21	4,111353E+22
115	1,913546E+22	1,913562E+22	1,420968E+21	1,421234E+21	3,827108E+22	2,842202E+21	4,111328E+22
116	1,913543E+22	1,913444E+22	1,421060E+21	1,421057E+21	3,826987E+22	2,842118E+21	4,111199E+22
117	1,913443E+22	1,913541E+22	1,421219E+21	1,420994E+21	3,826984E+22	2,842213E+21	4,111205E+22
118	1,913542E+22	1,913490E+22	1,420932E+21	1,421209E+21	3,827033E+22	2,842140E+21	4,111247E+22
119	1,913511E+22	1,913506E+22	1,421125E+21	1,420891E+21	3,827017E+22	2,842016E+21	4,111218E+22
120	1,913509E+22	1,913617E+22	1,421065E+21	1,421034E+21	3,827126E+22	2,842099E+21	4,111336E+22
121	1,913627E+22	1,913555E+22	1,420832E+21	1,421065E+21	3,827182E+22	2,841897E+21	4,111372E+22
122	1,913596E+22	1,913656E+22	1,421060E+21	1,420752E+21	3,827252E+22	2,841812E+21	4,111433E+22
123	1,913692E+22	1,913712E+22	1,420836E+21	1,420987E+21	3,827404E+22	2,841823E+21	4,111586E+22
124	1,913771E+22	1,913653E+22	1,420766E+21	1,420819E+21	3,827423E+22	2,841585E+21	4,111582E+22
125	1,913678E+22	1,913784E+22	1,420983E+21	1,420696E+21	3,827462E+22	2,841679E+21	4,111630E+22
126	1,913747E+22	1,913751E+22	1,420713E+21	1,421009E+21	3,827497E+22	2,841722E+21	4,111669E+22
127	1,913722E+22	1,913682E+22	1,420880E+21	1,420776E+21	3,827404E+22	2,841656E+21	4,111570E+22
128	1,913640E+22	1,913734E+22	1,421012E+21	1,420885E+21	3,827374E+22	2,841897E+21	4,111564E+22
129	1,913684E+22	1,913596E+22	1,420802E+21	1,421077E+21	3,827280E+22	2,841879E+21	4,111468E+22
130	1,913572E+22	1,913571E+22	1,421129E+21	1,420852E+21	3,827144E+22	2,841980E+21	4,111342E+22
131	1,913509E+22	1,913570E+22	1,421082E+21	1,421165E+21	3,827079E+22	2,842247E+21	4,111303E+22
132	1,913518E+22	1,913406E+22	1,421004E+21	1,421220E+21	3,826924E+22	2,842224E+21	4,111147E+22
133	1,913366E+22	1,913445E+22	1,421327E+21	1,421060E+21	3,826811E+22	2,842387E+21	4,111050E+22
134	1,913389E+22	1,913400E+22	1,421123E+21	1,421385E+21	3,826789E+22	2,842508E+21	4,111039E+22
135	1,913399E+22	1,913302E+22	1,421213E+21	1,421167E+21	3,826701E+22	2,842380E+21	4,110939E+22
136	1,913302E+22	1,913405E+22	1,421375E+21	1,421119E+21	3,826706E+22	2,842494E+21	4,110956E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
137	1,913377E+22	1,913346E+22	1,421079E+21	1,421363E+21	3,826723E+22	2,842442E+21	4,110968E+22
138	1,913362E+22	1,913365E+22	1,421258E+21	1,421045E+21	3,826727E+22	2,842303E+21	4,110957E+22
139	1,913373E+22	1,913474E+22	1,421211E+21	1,421175E+21	3,826846E+22	2,842386E+21	4,111085E+22
140	1,913519E+22	1,913408E+22	1,420942E+21	1,421191E+21	3,826928E+22	2,842133E+21	4,111141E+22
141	1,913487E+22	1,913522E+22	1,421165E+21	1,420844E+21	3,827009E+22	2,842008E+21	4,111210E+22
142	1,913550E+22	1,913594E+22	1,420973E+21	1,421110E+21	3,827143E+22	2,842083E+21	4,111352E+22
143	1,913617E+22	1,913538E+22	1,420903E+21	1,420950E+21	3,827156E+22	2,841853E+21	4,111341E+22
144	1,913523E+22	1,913645E+22	1,421142E+21	1,420852E+21	3,827168E+22	2,841994E+21	4,111367E+22
145	1,913575E+22	1,913584E+22	1,420877E+21	1,421172E+21	3,827160E+22	2,842049E+21	4,111365E+22
146	1,913567E+22	1,913510E+22	1,421041E+21	1,420928E+21	3,827077E+22	2,841970E+21	4,111274E+22
147	1,913482E+22	1,913558E+22	1,421192E+21	1,421044E+21	3,827040E+22	2,842236E+21	4,111263E+22
148	1,913527E+22	1,913418E+22	1,420947E+21	1,421266E+21	3,826945E+22	2,842213E+21	4,111167E+22
149	1,913404E+22	1,913402E+22	1,421260E+21	1,421039E+21	3,826806E+22	2,842300E+21	4,111036E+22
150	1,913330E+22	1,913405E+22	1,421246E+21	1,421362E+21	3,826735E+22	2,842608E+21	4,110995E+22
151	1,913356E+22	1,913248E+22	1,421170E+21	1,421368E+21	3,826604E+22	2,842538E+21	4,110858E+22
152	1,913219E+22	1,913286E+22	1,421504E+21	1,421186E+21	3,826505E+22	2,842689E+21	4,110774E+22
153	1,913219E+22	1,913236E+22	1,421300E+21	1,421507E+21	3,826455E+22	2,842808E+21	4,110736E+22
154	1,913228E+22	1,913154E+22	1,421372E+21	1,421305E+21	3,826382E+22	2,842677E+21	4,110650E+22
155	1,913133E+22	1,913256E+22	1,421535E+21	1,421282E+21	3,826389E+22	2,842817E+21	4,110671E+22
156	1,913235E+22	1,913188E+22	1,421198E+21	1,421534E+21	3,826423E+22	2,842732E+21	4,110696E+22
157	1,913241E+22	1,913221E+22	1,421352E+21	1,421175E+21	3,826462E+22	2,842527E+21	4,110715E+22
158	1,913257E+22	1,913343E+22	1,421332E+21	1,421291E+21	3,826600E+22	2,842623E+21	4,110862E+22
159	1,913403E+22	1,913296E+22	1,421070E+21	1,421277E+21	3,826699E+22	2,842347E+21	4,110934E+22
160	1,913359E+22	1,913410E+22	1,421305E+21	1,420963E+21	3,826768E+22	2,842268E+21	4,110995E+22
161	1,913379E+22	1,913458E+22	1,421126E+21	1,421262E+21	3,826837E+22	2,842388E+21	4,111076E+22
162	1,913452E+22	1,913388E+22	1,421055E+21	1,421117E+21	3,826840E+22	2,842172E+21	4,111058E+22
163	1,913369E+22	1,913474E+22	1,421309E+21	1,421018E+21	3,826843E+22	2,842326E+21	4,111075E+22
164	1,913438E+22	1,913401E+22	1,421011E+21	1,421333E+21	3,826839E+22	2,842344E+21	4,111073E+22
165	1,913428E+22	1,913340E+22	1,421163E+21	1,421072E+21	3,826768E+22	2,842234E+21	4,110992E+22
166	1,913317E+22	1,913404E+22	1,421341E+21	1,421213E+21	3,826721E+22	2,842554E+21	4,110977E+22
167	1,913357E+22	1,913276E+22	1,421108E+21	1,421430E+21	3,826633E+22	2,842538E+21	4,110887E+22
168	1,913240E+22	1,913247E+22	1,421441E+21	1,421209E+21	3,826487E+22	2,842650E+21	4,110752E+22
169	1,913145E+22	1,913235E+22	1,421438E+21	1,421515E+21	3,826380E+22	2,842953E+21	4,110675E+22
170	1,913188E+22	1,913079E+22	1,421357E+21	1,421508E+21	3,826267E+22	2,842865E+21	4,110554E+22
171	1,913051E+22	1,913113E+22	1,421693E+21	1,421333E+21	3,826164E+22	2,843026E+21	4,110467E+22
172	1,913054E+22	1,913066E+22	1,421439E+21	1,421681E+21	3,826121E+22	2,843120E+21	4,110433E+22
173	1,913071E+22	1,912993E+22	1,421479E+21	1,421478E+21	3,826064E+22	2,842957E+21	4,110360E+22
174	1,912984E+22	1,913106E+22	1,421658E+21	1,421453E+21	3,826089E+22	2,843111E+21	4,110400E+22
175	1,913116E+22	1,913059E+22	1,421320E+21	1,421650E+21	3,826174E+22	2,842970E+21	4,110471E+22
176	1,913138E+22	1,913096E+22	1,421481E+21	1,421268E+21	3,826234E+22	2,842749E+21	4,110509E+22
177	1,913118E+22	1,913220E+22	1,421478E+21	1,421382E+21	3,826337E+22	2,842860E+21	4,110623E+22
178	1,913253E+22	1,913179E+22	1,421211E+21	1,421392E+21	3,826432E+22	2,842604E+21	4,110692E+22
179	1,913199E+22	1,913272E+22	1,421461E+21	1,421121E+21	3,826470E+22	2,842582E+21	4,110729E+22
180	1,913229E+22	1,913297E+22	1,421248E+21	1,421434E+21	3,826526E+22	2,842683E+21	4,110795E+22
181	1,913318E+22	1,913223E+22	1,421163E+21	1,421272E+21	3,826541E+22	2,842435E+21	4,110785E+22
182	1,913236E+22	1,913313E+22	1,421443E+21	1,421167E+21	3,826549E+22	2,842610E+21	4,110810E+22
183	1,913305E+22	1,913256E+22	1,421159E+21	1,421461E+21	3,826562E+22	2,842620E+21	4,110824E+22
184	1,913280E+22	1,913198E+22	1,421322E+21	1,421227E+21	3,826478E+22	2,842549E+21	4,110733E+22
185	1,913126E+22	1,913247E+22	1,421524E+21	1,421387E+21	3,826373E+22	2,842911E+21	4,110664E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
186	1,913170E+22	1,913111E+22	1,421303E+21	1,421603E+21	3,826281E+22	2,842906E+21	4,110571E+22
187	1,913063E+22	1,913066E+22	1,421647E+21	1,421384E+21	3,826129E+22	2,843031E+21	4,110432E+22
188	1,912978E+22	1,913041E+22	1,421605E+21	1,421673E+21	3,826019E+22	2,843278E+21	4,110347E+22
189	1,913021E+22	1,912901E+22	1,421496E+21	1,421664E+21	3,825922E+22	2,843160E+21	4,110238E+22
190	1,912878E+22	1,912949E+22	1,421826E+21	1,421510E+21	3,825827E+22	2,843336E+21	4,110160E+22
191	1,912896E+22	1,912918E+22	1,421570E+21	1,421838E+21	3,825814E+22	2,843408E+21	4,110155E+22
192	1,912938E+22	1,912853E+22	1,421607E+21	1,421622E+21	3,825791E+22	2,843229E+21	4,110114E+22
193	1,912844E+22	1,912966E+22	1,421800E+21	1,421567E+21	3,825810E+22	2,843367E+21	4,110147E+22
194	1,912990E+22	1,912933E+22	1,421473E+21	1,421743E+21	3,825923E+22	2,843216E+21	4,110245E+22
195	1,913007E+22	1,912970E+22	1,421640E+21	1,421385E+21	3,825976E+22	2,843025E+21	4,110279E+22
196	1,912972E+22	1,913082E+22	1,421597E+21	1,421526E+21	3,826054E+22	2,843123E+21	4,110367E+22
197	1,913105E+22	1,913036E+22	1,421313E+21	1,421553E+21	3,826140E+22	2,842867E+21	4,110427E+22
198	1,913056E+22	1,913118E+22	1,421578E+21	1,421289E+21	3,826175E+22	2,842867E+21	4,110461E+22
199	1,913107E+22	1,913152E+22	1,421377E+21	1,421558E+21	3,826259E+22	2,842935E+21	4,110552E+22
200	1,913202E+22	1,913081E+22	1,421302E+21	1,421386E+21	3,826283E+22	2,842689E+21	4,110552E+22
201	1,913078E+22	1,913170E+22	1,421604E+21	1,421294E+21	3,826248E+22	2,842898E+21	4,110537E+22
202	1,913133E+22	1,913117E+22	1,421338E+21	1,421611E+21	3,826251E+22	2,842949E+21	4,110545E+22
203	1,913098E+22	1,913038E+22	1,421519E+21	1,421418E+21	3,826136E+22	2,842937E+21	4,110429E+22
204	1,912948E+22	1,913064E+22	1,421689E+21	1,421574E+21	3,826012E+22	2,843263E+21	4,110338E+22
205	1,913005E+22	1,912924E+22	1,421452E+21	1,421775E+21	3,825928E+22	2,843226E+21	4,110251E+22
206	1,912898E+22	1,912880E+22	1,421807E+21	1,421553E+21	3,825778E+22	2,843360E+21	4,110114E+22
207	1,912819E+22	1,912877E+22	1,421756E+21	1,421822E+21	3,825696E+22	2,843578E+21	4,110054E+22
208	1,912860E+22	1,912745E+22	1,421639E+21	1,421829E+21	3,825605E+22	2,843468E+21	4,109952E+22
209	1,912698E+22	1,912790E+22	1,421978E+21	1,421677E+21	3,825488E+22	2,843655E+21	4,109853E+22
210	1,912744E+22	1,912768E+22	1,421736E+21	1,421977E+21	3,825512E+22	2,843713E+21	4,109883E+22
211	1,912804E+22	1,912706E+22	1,421776E+21	1,421750E+21	3,825510E+22	2,843526E+21	4,109863E+22
212	1,912716E+22	1,912819E+22	1,421931E+21	1,421675E+21	3,825535E+22	2,843606E+21	4,109896E+22
213	1,912854E+22	1,912801E+22	1,421586E+21	1,421858E+21	3,825655E+22	2,843444E+21	4,109999E+22
214	1,912856E+22	1,912841E+22	1,421755E+21	1,421536E+21	3,825697E+22	2,843291E+21	4,110026E+22
215	1,912831E+22	1,912954E+22	1,421715E+21	1,421665E+21	3,825784E+22	2,843380E+21	4,110122E+22
216	1,912977E+22	1,912902E+22	1,421434E+21	1,421689E+21	3,825879E+22	2,843123E+21	4,110192E+22
217	1,912917E+22	1,912973E+22	1,421717E+21	1,421413E+21	3,825891E+22	2,843130E+21	4,110204E+22
218	1,912975E+22	1,913011E+22	1,421544E+21	1,421670E+21	3,825986E+22	2,843214E+21	4,110308E+22
219	1,913056E+22	1,912940E+22	1,421478E+21	1,421541E+21	3,825996E+22	2,843020E+21	4,110298E+22
220	1,912911E+22	1,913009E+22	1,421748E+21	1,421474E+21	3,825920E+22	2,843222E+21	4,110242E+22
221	1,912959E+22	1,912948E+22	1,421482E+21	1,421805E+21	3,825906E+22	2,843286E+21	4,110235E+22
222	1,912929E+22	1,912858E+22	1,421673E+21	1,421616E+21	3,825787E+22	2,843289E+21	4,110115E+22
223	1,912794E+22	1,912887E+22	1,421848E+21	1,421722E+21	3,825681E+22	2,843570E+21	4,110038E+22
224	1,912852E+22	1,912756E+22	1,421613E+21	1,421908E+21	3,825608E+22	2,843522E+21	4,109961E+22
225	1,912713E+22	1,912714E+22	1,421976E+21	1,421699E+21	3,825427E+22	2,843674E+21	4,109794E+22
226	1,912634E+22	1,912720E+22	1,421938E+21	1,421974E+21	3,825354E+22	2,843912E+21	4,109746E+22
227	1,912685E+22	1,912586E+22	1,421823E+21	1,422011E+21	3,825271E+22	2,843834E+21	4,109654E+22
228	1,912542E+22	1,912621E+22	1,422116E+21	1,421838E+21	3,825163E+22	2,843954E+21	4,109558E+22
229	1,912610E+22	1,912611E+22	1,421868E+21	1,422113E+21	3,825221E+22	2,843981E+21	4,109620E+22
230	1,912674E+22	1,912563E+22	1,421907E+21	1,421881E+21	3,825237E+22	2,843788E+21	4,109616E+22
231	1,912587E+22	1,912696E+22	1,422052E+21	1,421790E+21	3,825282E+22	2,843842E+21	4,109666E+22
232	1,912714E+22	1,912681E+22	1,421701E+21	1,421988E+21	3,825395E+22	2,843689E+21	4,109764E+22
233	1,912694E+22	1,912705E+22	1,421887E+21	1,421683E+21	3,825399E+22	2,843570E+21	4,109756E+22
234	1,912693E+22	1,912815E+22	1,421870E+21	1,421792E+21	3,825508E+22	2,843662E+21	4,109874E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
235	1,912851E+22	1,912757E+22	1,421599E+21	1,421823E+21	3,825608E+22	2,843422E+21	4,109950E+22
236	1,912787E+22	1,912819E+22	1,421844E+21	1,421543E+21	3,825607E+22	2,843386E+21	4,109945E+22
237	1,912834E+22	1,912864E+22	1,421668E+21	1,421817E+21	3,825698E+22	2,843485E+21	4,110046E+22
238	1,912893E+22	1,912790E+22	1,421612E+21	1,421722E+21	3,825683E+22	2,843334E+21	4,110016E+22
239	1,912755E+22	1,912856E+22	1,421890E+21	1,421641E+21	3,825611E+22	2,843531E+21	4,109964E+22
240	1,912806E+22	1,912790E+22	1,421635E+21	1,421951E+21	3,825595E+22	2,843587E+21	4,109954E+22
241	1,912756E+22	1,912688E+22	1,421854E+21	1,421761E+21	3,825444E+22	2,843615E+21	4,109806E+22
242	1,912626E+22	1,912721E+22	1,422052E+21	1,421853E+21	3,825347E+22	2,843905E+21	4,109737E+22
243	1,912669E+22	1,912590E+22	1,421815E+21	1,422086E+21	3,825259E+22	2,843901E+21	4,109650E+22
244	1,912522E+22	1,912532E+22	1,422125E+21	1,421895E+21	3,825054E+22	2,844020E+21	4,109456E+22
245	1,912460E+22	1,912537E+22	1,422084E+21	1,422169E+21	3,824998E+22	2,844252E+21	4,109423E+22
246	1,912530E+22	1,912414E+22	1,421968E+21	1,422189E+21	3,824944E+22	2,844157E+21	4,109360E+22
247	1,912416E+22	1,912469E+22	1,422251E+21	1,421964E+21	3,824884E+22	2,844215E+21	4,109306E+22
248	1,912482E+22	1,912480E+22	1,422004E+21	1,422213E+21	3,824962E+22	2,844217E+21	4,109384E+22
249	1,912512E+22	1,912438E+22	1,422047E+21	1,422003E+21	3,824950E+22	2,844049E+21	4,109355E+22
250	1,912427E+22	1,912570E+22	1,422209E+21	1,421914E+21	3,824997E+22	2,844123E+21	4,109409E+22
251	1,912561E+22	1,912549E+22	1,421858E+21	1,422144E+21	3,825109E+22	2,844002E+21	4,109510E+22
252	1,912558E+22	1,912549E+22	1,421999E+21	1,421826E+21	3,825107E+22	2,843825E+21	4,109490E+22
253	1,912576E+22	1,912660E+22	1,421990E+21	1,421924E+21	3,825236E+22	2,843914E+21	4,109627E+22
254	1,912730E+22	1,912616E+22	1,421722E+21	1,421964E+21	3,825346E+22	2,843685E+21	4,109714E+22
255	1,912662E+22	1,912687E+22	1,421959E+21	1,421684E+21	3,825349E+22	2,843643E+21	4,109713E+22
256	1,912687E+22	1,912733E+22	1,421798E+21	1,421961E+21	3,825420E+22	2,843759E+21	4,109796E+22
257	1,912719E+22	1,912640E+22	1,421773E+21	1,421882E+21	3,825360E+22	2,843655E+21	4,109725E+22
258	1,912593E+22	1,912697E+22	1,422086E+21	1,421777E+21	3,825290E+22	2,843864E+21	4,109676E+22
259	1,912639E+22	1,912625E+22	1,421844E+21	1,422101E+21	3,825264E+22	2,843945E+21	4,109659E+22
260	1,912577E+22	1,912505E+22	1,422021E+21	1,421924E+21	3,825082E+22	2,843944E+21	4,109476E+22
261	1,912444E+22	1,912537E+22	1,422210E+21	1,422041E+21	3,824981E+22	2,844251E+21	4,109406E+22
262	1,912483E+22	1,912410E+22	1,421968E+21	1,422297E+21	3,824893E+22	2,844265E+21	4,109319E+22
263	1,912365E+22	1,912359E+22	1,422259E+21	1,422082E+21	3,824723E+22	2,844341E+21	4,109158E+22
264	1,912320E+22	1,912379E+22	1,422221E+21	1,422310E+21	3,824700E+22	2,844531E+21	4,109153E+22
265	1,912378E+22	1,912266E+22	1,422129E+21	1,422316E+21	3,824644E+22	2,844445E+21	4,109089E+22
266	1,912272E+22	1,912337E+22	1,422430E+21	1,422070E+21	3,824609E+22	2,844501E+21	4,109059E+22
267	1,912321E+22	1,912353E+22	1,422179E+21	1,422354E+21	3,824674E+22	2,844533E+21	4,109127E+22
268	1,912341E+22	1,912287E+22	1,422173E+21	1,422164E+21	3,824628E+22	2,844337E+21	4,109062E+22
269	1,912282E+22	1,912408E+22	1,422327E+21	1,422078E+21	3,824690E+22	2,844405E+21	4,109130E+22
270	1,912431E+22	1,912392E+22	1,421976E+21	1,422290E+21	3,824823E+22	2,844266E+21	4,109250E+22
271	1,912457E+22	1,912409E+22	1,422100E+21	1,421941E+21	3,824866E+22	2,844041E+21	4,109270E+22
272	1,912466E+22	1,912538E+22	1,422102E+21	1,422018E+21	3,825004E+22	2,844120E+21	4,109416E+22
273	1,912576E+22	1,912498E+22	1,421862E+21	1,422088E+21	3,825074E+22	2,843950E+21	4,109469E+22
274	1,912504E+22	1,912563E+22	1,422132E+21	1,421818E+21	3,825066E+22	2,843950E+21	4,109461E+22
275	1,912520E+22	1,912592E+22	1,421988E+21	1,422121E+21	3,825112E+22	2,844109E+21	4,109523E+22
276	1,912550E+22	1,912466E+22	1,421931E+21	1,422048E+21	3,825017E+22	2,843979E+21	4,109415E+22
277	1,912437E+22	1,912509E+22	1,422251E+21	1,421947E+21	3,824946E+22	2,844199E+21	4,109366E+22
278	1,912470E+22	1,912445E+22	1,422005E+21	1,422285E+21	3,824915E+22	2,844290E+21	4,109344E+22
279	1,912412E+22	1,912329E+22	1,422155E+21	1,422121E+21	3,824741E+22	2,844276E+21	4,109169E+22
280	1,912275E+22	1,912366E+22	1,422346E+21	1,422225E+21	3,824641E+22	2,844570E+21	4,109098E+22
281	1,912306E+22	1,912240E+22	1,422134E+21	1,422475E+21	3,824546E+22	2,844610E+21	4,109007E+22
282	1,912214E+22	1,912199E+22	1,422450E+21	1,422213E+21	3,824413E+22	2,844663E+21	4,108880E+22
283	1,912169E+22	1,912235E+22	1,422422E+21	1,422435E+21	3,824404E+22	2,844857E+21	4,108889E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
284	1,912212E+22	1,912112E+22	1,422284E+21	1,422445E+21	3,824324E+22	2,844729E+21	4,108797E+22
285	1,912105E+22	1,912180E+22	1,422572E+21	1,422225E+21	3,824285E+22	2,844797E+21	4,108765E+22
286	1,912152E+22	1,912201E+22	1,422308E+21	1,422519E+21	3,824353E+22	2,844828E+21	4,108836E+22
287	1,912208E+22	1,912136E+22	1,422273E+21	1,422318E+21	3,824344E+22	2,844590E+21	4,108803E+22
288	1,912171E+22	1,912268E+22	1,422428E+21	1,422189E+21	3,824439E+22	2,844617E+21	4,108901E+22
289	1,912311E+22	1,912264E+22	1,422111E+21	1,422395E+21	3,824576E+22	2,844506E+21	4,109026E+22
290	1,912338E+22	1,912296E+22	1,422254E+21	1,422038E+21	3,824634E+22	2,844291E+21	4,109063E+22
291	1,912320E+22	1,912427E+22	1,422263E+21	1,422157E+21	3,824747E+22	2,844421E+21	4,109189E+22
292	1,912407E+22	1,912352E+22	1,421999E+21	1,422252E+21	3,824759E+22	2,844251E+21	4,109185E+22
293	1,912350E+22	1,912392E+22	1,422282E+21	1,421999E+21	3,824742E+22	2,844281E+21	4,109170E+22
294	1,912364E+22	1,912419E+22	1,422142E+21	1,422284E+21	3,824783E+22	2,844427E+21	4,109225E+22
295	1,912411E+22	1,912294E+22	1,422067E+21	1,422208E+21	3,824704E+22	2,844276E+21	4,109132E+22
296	1,912287E+22	1,912343E+22	1,422385E+21	1,422094E+21	3,824630E+22	2,844480E+21	4,109078E+22
297	1,912285E+22	1,912283E+22	1,422168E+21	1,422457E+21	3,824568E+22	2,844625E+21	4,109030E+22
298	1,912237E+22	1,912171E+22	1,422339E+21	1,422286E+21	3,824409E+22	2,844625E+21	4,108871E+22
299	1,912105E+22	1,912207E+22	1,422539E+21	1,422392E+21	3,824312E+22	2,844931E+21	4,108805E+22
300	1,912134E+22	1,912065E+22	1,422310E+21	1,422628E+21	3,824199E+22	2,844939E+21	4,108693E+22
301	1,912061E+22	1,912024E+22	1,422625E+21	1,422368E+21	3,824086E+22	2,844993E+21	4,108585E+22
302	1,911999E+22	1,912075E+22	1,422584E+21	1,422585E+21	3,824073E+22	2,845169E+21	4,108590E+22
303	1,912050E+22	1,911957E+22	1,422405E+21	1,422617E+21	3,824007E+22	2,845022E+21	4,108510E+22
304	1,911951E+22	1,912024E+22	1,422680E+21	1,422376E+21	3,823976E+22	2,845055E+21	4,108481E+22
305	1,912000E+22	1,912051E+22	1,422442E+21	1,422660E+21	3,824050E+22	2,845102E+21	4,108561E+22
306	1,912088E+22	1,912003E+22	1,422421E+21	1,422419E+21	3,824091E+22	2,844840E+21	4,108575E+22
307	1,912053E+22	1,912149E+22	1,422582E+21	1,422296E+21	3,824202E+22	2,844878E+21	4,108690E+22
308	1,912169E+22	1,912136E+22	1,422243E+21	1,422517E+21	3,824306E+22	2,844760E+21	4,108781E+22
309	1,912195E+22	1,912158E+22	1,422384E+21	1,422197E+21	3,824352E+22	2,844580E+21	4,108810E+22
310	1,912163E+22	1,912283E+22	1,422396E+21	1,422317E+21	3,824446E+22	2,844713E+21	4,108918E+22
311	1,912271E+22	1,912198E+22	1,422111E+21	1,422415E+21	3,824469E+22	2,844526E+21	4,108921E+22
312	1,912220E+22	1,912233E+22	1,422404E+21	1,422133E+21	3,824453E+22	2,844537E+21	4,108907E+22
313	1,912214E+22	1,912264E+22	1,422305E+21	1,422421E+21	3,824477E+22	2,844727E+21	4,108950E+22
314	1,912255E+22	1,912147E+22	1,422251E+21	1,422348E+21	3,824402E+22	2,844598E+21	4,108861E+22
315	1,912110E+22	1,912194E+22	1,422568E+21	1,422273E+21	3,824304E+22	2,844841E+21	4,108788E+22
316	1,912094E+22	1,912102E+22	1,422338E+21	1,422645E+21	3,824196E+22	2,844983E+21	4,108694E+22
317	1,912069E+22	1,911978E+22	1,422515E+21	1,422475E+21	3,824047E+22	2,844989E+21	4,108546E+22
318	1,911938E+22	1,912029E+22	1,422714E+21	1,422546E+21	3,823967E+22	2,845260E+21	4,108493E+22
319	1,911983E+22	1,911896E+22	1,422461E+21	1,422780E+21	3,823879E+22	2,845240E+21	4,108403E+22
320	1,911899E+22	1,911868E+22	1,422760E+21	1,422508E+21	3,823768E+22	2,845269E+21	4,108295E+22
321	1,911814E+22	1,911925E+22	1,422737E+21	1,422740E+21	3,823739E+22	2,845477E+21	4,108287E+22
322	1,911885E+22	1,911813E+22	1,422564E+21	1,422760E+21	3,823699E+22	2,845324E+21	4,108231E+22
323	1,911808E+22	1,911884E+22	1,422827E+21	1,422518E+21	3,823691E+22	2,845345E+21	4,108226E+22
324	1,911864E+22	1,911898E+22	1,422578E+21	1,422784E+21	3,823761E+22	2,845363E+21	4,108297E+22
325	1,911974E+22	1,911858E+22	1,422557E+21	1,422551E+21	3,823832E+22	2,845108E+21	4,108343E+22
326	1,911920E+22	1,912022E+22	1,422707E+21	1,422428E+21	3,823942E+22	2,845135E+21	4,108455E+22
327	1,912035E+22	1,912007E+22	1,422345E+21	1,422673E+21	3,824042E+22	2,845018E+21	4,108544E+22
328	1,912061E+22	1,912017E+22	1,422485E+21	1,422341E+21	3,824078E+22	2,844826E+21	4,108561E+22
329	1,912017E+22	1,912137E+22	1,422541E+21	1,422448E+21	3,824154E+22	2,844989E+21	4,108653E+22
330	1,912137E+22	1,912060E+22	1,422282E+21	1,422521E+21	3,824197E+22	2,844803E+21	4,108677E+22
331	1,912076E+22	1,912092E+22	1,422579E+21	1,422261E+21	3,824168E+22	2,844840E+21	4,108652E+22
332	1,912032E+22	1,912101E+22	1,422475E+21	1,422573E+21	3,824133E+22	2,845048E+21	4,108638E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
333	1,912077E+22	1,911972E+22	1,422417E+21	1,422544E+21	3,824049E+22	2,844961E+21	4,108545E+22
334	1,911926E+22	1,912015E+22	1,422728E+21	1,422462E+21	3,823940E+22	2,845191E+21	4,108460E+22
335	1,911934E+22	1,911921E+22	1,422483E+21	1,422831E+21	3,823855E+22	2,845314E+21	4,108386E+22
336	1,911922E+22	1,911802E+22	1,422660E+21	1,422627E+21	3,823724E+22	2,845287E+21	4,108253E+22
337	1,911771E+22	1,911866E+22	1,422889E+21	1,422690E+21	3,823637E+22	2,845580E+21	4,108195E+22
338	1,911811E+22	1,911753E+22	1,422644E+21	1,422923E+21	3,823564E+22	2,845567E+21	4,108121E+22
339	1,911719E+22	1,911721E+22	1,422927E+21	1,422683E+21	3,823439E+22	2,845610E+21	4,108000E+22
340	1,911631E+22	1,911750E+22	1,422891E+21	1,422908E+21	3,823381E+22	2,845799E+21	4,107961E+22
341	1,911743E+22	1,911638E+22	1,422712E+21	1,422921E+21	3,823381E+22	2,845633E+21	4,107944E+22
342	1,911678E+22	1,911731E+22	1,422959E+21	1,422642E+21	3,823409E+22	2,845601E+21	4,107969E+22
343	1,911752E+22	1,911761E+22	1,422689E+21	1,422910E+21	3,823513E+22	2,845599E+21	4,108073E+22
344	1,911850E+22	1,911738E+22	1,422653E+21	1,422667E+21	3,823588E+22	2,845320E+21	4,108120E+22
345	1,911773E+22	1,911905E+22	1,422835E+21	1,422555E+21	3,823679E+22	2,845389E+21	4,108217E+22
346	1,911895E+22	1,911890E+22	1,422496E+21	1,422783E+21	3,823785E+22	2,845279E+21	4,108313E+22
347	1,911922E+22	1,911891E+22	1,422640E+21	1,422468E+21	3,823813E+22	2,845109E+21	4,108323E+22
348	1,911866E+22	1,911980E+22	1,422702E+21	1,422573E+21	3,823846E+22	2,845275E+21	4,108374E+22
349	1,911991E+22	1,911896E+22	1,422449E+21	1,422677E+21	3,823887E+22	2,845126E+21	4,108399E+22
350	1,911908E+22	1,911933E+22	1,422725E+21	1,422434E+21	3,823841E+22	2,845160E+21	4,108357E+22
351	1,911869E+22	1,911928E+22	1,422602E+21	1,422776E+21	3,823797E+22	2,845379E+21	4,108335E+22
352	1,911918E+22	1,911794E+22	1,422543E+21	1,422728E+21	3,823712E+22	2,845271E+21	4,108239E+22
353	1,911764E+22	1,911843E+22	1,422892E+21	1,422624E+21	3,823607E+22	2,845516E+21	4,108158E+22
354	1,911781E+22	1,911766E+22	1,422678E+21	1,422957E+21	3,823547E+22	2,845635E+21	4,108111E+22
355	1,911755E+22	1,911656E+22	1,422851E+21	1,422775E+21	3,823410E+22	2,845627E+21	4,107973E+22
356	1,911572E+22	1,911698E+22	1,423070E+21	1,422851E+21	3,823269E+22	2,845921E+21	4,107861E+22
357	1,911624E+22	1,911575E+22	1,422817E+21	1,423111E+21	3,823200E+22	2,845929E+21	4,107792E+22
358	1,911542E+22	1,911546E+22	1,423074E+21	1,422854E+21	3,823087E+22	2,845928E+21	4,107680E+22
359	1,911493E+22	1,911577E+22	1,423013E+21	1,423068E+21	3,823071E+22	2,846081E+21	4,107679E+22
360	1,911627E+22	1,911487E+22	1,422823E+21	1,423044E+21	3,823114E+22	2,845868E+21	4,107701E+22
361	1,911553E+22	1,911603E+22	1,423093E+21	1,422756E+21	3,823156E+22	2,845848E+21	4,107741E+22
362	1,911618E+22	1,911659E+22	1,422840E+21	1,423018E+21	3,823278E+22	2,845857E+21	4,107863E+22
363	1,911704E+22	1,911629E+22	1,422793E+21	1,422803E+21	3,823333E+22	2,845596E+21	4,107892E+22
364	1,911610E+22	1,911757E+22	1,422983E+21	1,422688E+21	3,823367E+22	2,845671E+21	4,107934E+22
365	1,911754E+22	1,911734E+22	1,422650E+21	1,422921E+21	3,823488E+22	2,845571E+21	4,108045E+22
366	1,911779E+22	1,911736E+22	1,422783E+21	1,422600E+21	3,823515E+22	2,845384E+21	4,108054E+22
367	1,911729E+22	1,911821E+22	1,422828E+21	1,422732E+21	3,823551E+22	2,845560E+21	4,108107E+22
368	1,911842E+22	1,911742E+22	1,422561E+21	1,422844E+21	3,823584E+22	2,845404E+21	4,108124E+22
369	1,911743E+22	1,911778E+22	1,422860E+21	1,422611E+21	3,823521E+22	2,845471E+21	4,108068E+22
370	1,911714E+22	1,911780E+22	1,422769E+21	1,422925E+21	3,823495E+22	2,845694E+21	4,108064E+22
371	1,911764E+22	1,911645E+22	1,422719E+21	1,422881E+21	3,823409E+22	2,845600E+21	4,107969E+22
372	1,911593E+22	1,911669E+22	1,423090E+21	1,422768E+21	3,823261E+22	2,845858E+21	4,107847E+22
373	1,911608E+22	1,911594E+22	1,422882E+21	1,423120E+21	3,823202E+22	2,846003E+21	4,107802E+22
374	1,911558E+22	1,911487E+22	1,423029E+21	1,422961E+21	3,823045E+22	2,845990E+21	4,107644E+22
375	1,911391E+22	1,911509E+22	1,423213E+21	1,423057E+21	3,822900E+22	2,846270E+21	4,107527E+22
376	1,911463E+22	1,911390E+22	1,422942E+21	1,423284E+21	3,822853E+22	2,846227E+21	4,107475E+22
377	1,911399E+22	1,911381E+22	1,423209E+21	1,422996E+21	3,822780E+22	2,846205E+21	4,107400E+22
378	1,911371E+22	1,911445E+22	1,423173E+21	1,423165E+21	3,822815E+22	2,846338E+21	4,107449E+22
379	1,911492E+22	1,911377E+22	1,422975E+21	1,423156E+21	3,822869E+22	2,846131E+21	4,107482E+22
380	1,911390E+22	1,911476E+22	1,423240E+21	1,422883E+21	3,822866E+22	2,846123E+21	4,107478E+22
381	1,911463E+22	1,911521E+22	1,422992E+21	1,423160E+21	3,822984E+22	2,846153E+21	4,107599E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
382	1,911550E+22	1,911487E+22	1,422924E+21	1,422945E+21	3,823037E+22	2,845869E+21	4,107624E+22
383	1,911485E+22	1,911597E+22	1,423094E+21	1,422838E+21	3,823082E+22	2,845931E+21	4,107675E+22
384	1,911635E+22	1,911581E+22	1,422756E+21	1,423051E+21	3,823216E+22	2,845808E+21	4,107797E+22
385	1,911646E+22	1,911597E+22	1,422906E+21	1,422746E+21	3,823243E+22	2,845652E+21	4,107808E+22
386	1,911587E+22	1,911693E+22	1,422975E+21	1,422877E+21	3,823280E+22	2,845852E+21	4,107865E+22
387	1,911687E+22	1,911606E+22	1,422714E+21	1,423010E+21	3,823293E+22	2,845724E+21	4,107866E+22
388	1,911574E+22	1,911607E+22	1,423034E+21	1,422769E+21	3,823181E+22	2,845803E+21	4,107761E+22
389	1,911558E+22	1,911607E+22	1,422965E+21	1,423072E+21	3,823165E+22	2,846037E+21	4,107769E+22
390	1,911592E+22	1,911478E+22	1,422909E+21	1,423031E+21	3,823071E+22	2,845940E+21	4,107665E+22
391	1,911417E+22	1,911490E+22	1,423257E+21	1,422951E+21	3,822907E+22	2,846208E+21	4,107528E+22
392	1,911421E+22	1,911418E+22	1,423029E+21	1,423305E+21	3,822839E+22	2,846333E+21	4,107472E+22
393	1,911370E+22	1,911308E+22	1,423181E+21	1,423151E+21	3,822678E+22	2,846332E+21	4,107311E+22
394	1,911229E+22	1,911345E+22	1,423376E+21	1,423209E+21	3,822574E+22	2,846586E+21	4,107233E+22
395	1,911319E+22	1,911239E+22	1,423100E+21	1,423424E+21	3,822558E+22	2,846524E+21	4,107211E+22
396	1,911249E+22	1,911222E+22	1,423373E+21	1,423122E+21	3,822471E+22	2,846496E+21	4,107120E+22
397	1,911226E+22	1,911306E+22	1,423340E+21	1,423300E+21	3,822532E+22	2,846640E+21	4,107196E+22
398	1,911328E+22	1,911248E+22	1,423117E+21	1,423307E+21	3,822576E+22	2,846424E+21	4,107218E+22
399	1,911243E+22	1,911322E+22	1,423354E+21	1,423054E+21	3,822564E+22	2,846408E+21	4,107205E+22
400	1,911330E+22	1,911367E+22	1,423093E+21	1,423295E+21	3,822697E+22	2,846388E+21	4,107335E+22
401	1,911425E+22	1,911342E+22	1,423037E+21	1,423068E+21	3,822767E+22	2,846105E+21	4,107378E+22
402	1,911372E+22	1,911471E+22	1,423231E+21	1,422939E+21	3,822843E+22	2,846170E+21	4,107460E+22
403	1,911502E+22	1,911467E+22	1,422895E+21	1,423175E+21	3,822969E+22	2,846070E+21	4,107576E+22
404	1,911483E+22	1,911456E+22	1,423056E+21	1,422894E+21	3,822939E+22	2,845950E+21	4,107534E+22
405	1,911430E+22	1,911541E+22	1,423143E+21	1,423033E+21	3,822972E+22	2,846176E+21	4,107589E+22
406	1,911522E+22	1,911452E+22	1,422881E+21	1,423168E+21	3,822973E+22	2,846048E+21	4,107578E+22
407	1,911427E+22	1,911428E+22	1,423191E+21	1,422944E+21	3,822856E+22	2,846135E+21	4,107469E+22
408	1,911402E+22	1,911434E+22	1,423123E+21	1,423224E+21	3,822836E+22	2,846348E+21	4,107471E+22
409	1,911416E+22	1,911315E+22	1,423072E+21	1,423213E+21	3,822731E+22	2,846286E+21	4,107360E+22
410	1,911238E+22	1,911327E+22	1,423426E+21	1,423133E+21	3,822565E+22	2,846558E+21	4,107221E+22
411	1,911237E+22	1,911249E+22	1,423194E+21	1,423486E+21	3,822486E+22	2,846680E+21	4,107154E+22
412	1,911191E+22	1,911118E+22	1,423350E+21	1,423317E+21	3,822309E+22	2,846667E+21	4,106976E+22
413	1,911080E+22	1,911168E+22	1,423555E+21	1,423348E+21	3,822248E+22	2,846903E+21	4,106938E+22
414	1,911164E+22	1,911090E+22	1,423271E+21	1,423559E+21	3,822254E+22	2,846830E+21	4,106937E+22
415	1,911101E+22	1,911070E+22	1,423507E+21	1,423284E+21	3,822172E+22	2,846790E+21	4,106851E+22
416	1,911073E+22	1,911163E+22	1,423455E+21	1,423444E+21	3,822236E+22	2,846898E+21	4,106926E+22
417	1,911177E+22	1,911110E+22	1,423232E+21	1,423453E+21	3,822287E+22	2,846855E+21	4,106955E+22
418	1,911116E+22	1,911189E+22	1,423480E+21	1,423170E+21	3,822305E+22	2,846650E+21	4,106970E+22
419	1,911208E+22	1,911242E+22	1,423226E+21	1,423397E+21	3,822450E+22	2,846623E+21	4,107112E+22
420	1,911289E+22	1,911202E+22	1,423188E+21	1,423183E+21	3,822492E+22	2,846370E+21	4,107129E+22
421	1,911235E+22	1,911338E+22	1,423388E+21	1,423076E+21	3,822573E+22	2,846463E+21	4,107219E+22
422	1,911341E+22	1,911333E+22	1,423046E+21	1,423340E+21	3,822674E+22	2,846387E+21	4,107313E+22
423	1,911334E+22	1,911288E+22	1,423184E+21	1,423084E+21	3,822622E+22	2,846268E+21	4,107249E+22
424	1,911289E+22	1,911373E+22	1,423270E+21	1,423186E+21	3,822662E+22	2,846456E+21	4,107307E+22
425	1,911376E+22	1,911290E+22	1,423029E+21	1,423315E+21	3,822665E+22	2,846344E+21	4,107300E+22
426	1,911277E+22	1,911277E+22	1,423364E+21	1,423088E+21	3,822554E+22	2,846452E+21	4,107199E+22
427	1,911226E+22	1,911286E+22	1,423292E+21	1,423381E+21	3,822512E+22	2,846673E+21	4,107180E+22
428	1,911213E+22	1,911135E+22	1,423254E+21	1,423398E+21	3,822348E+22	2,846652E+21	4,107013E+22
429	1,911055E+22	1,911141E+22	1,423607E+21	1,423311E+21	3,822195E+22	2,846918E+21	4,106887E+22
430	1,911060E+22	1,911070E+22	1,423369E+21	1,423653E+21	3,822130E+22	2,847022E+21	4,106832E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
431	1,911044E+22	1,910930E+22	1,423499E+21	1,423488E+21	3,821974E+22	2,846988E+21	4,106673E+22
432	1,910939E+22	1,911005E+22	1,423692E+21	1,423489E+21	3,821944E+22	2,847181E+21	4,106662E+22
433	1,911008E+22	1,910952E+22	1,423410E+21	1,423716E+21	3,821959E+22	2,847127E+21	4,106672E+22
434	1,910950E+22	1,910940E+22	1,423646E+21	1,423436E+21	3,821890E+22	2,847082E+21	4,106599E+22
435	1,910923E+22	1,911030E+22	1,423589E+21	1,423570E+21	3,821953E+22	2,847159E+21	4,106669E+22
436	1,911026E+22	1,910958E+22	1,423379E+21	1,423571E+21	3,821984E+22	2,846950E+21	4,106679E+22
437	1,910988E+22	1,911045E+22	1,423633E+21	1,423274E+21	3,822033E+22	2,846907E+21	4,106724E+22
438	1,911066E+22	1,911114E+22	1,423379E+21	1,423517E+21	3,822180E+22	2,846896E+21	4,106870E+22
439	1,911151E+22	1,911059E+22	1,423305E+21	1,423350E+21	3,822210E+22	2,846655E+21	4,106876E+22
440	1,911094E+22	1,911191E+22	1,423493E+21	1,423234E+21	3,822286E+22	2,846727E+21	4,106958E+22
441	1,911197E+22	1,911190E+22	1,423167E+21	1,423501E+21	3,822387E+22	2,846668E+21	4,107054E+22
442	1,911209E+22	1,911144E+22	1,423318E+21	1,423225E+21	3,822353E+22	2,846544E+21	4,107007E+22
443	1,911151E+22	1,911230E+22	1,423425E+21	1,423301E+21	3,822381E+22	2,846726E+21	4,107053E+22
444	1,911207E+22	1,911132E+22	1,423213E+21	1,423457E+21	3,822339E+22	2,846670E+21	4,107006E+22
445	1,911099E+22	1,911115E+22	1,423555E+21	1,423256E+21	3,822214E+22	2,846811E+21	4,106895E+22
446	1,911025E+22	1,911116E+22	1,423481E+21	1,423573E+21	3,822140E+22	2,847054E+21	4,106846E+22
447	1,911034E+22	1,910930E+22	1,423412E+21	1,423609E+21	3,821964E+22	2,847020E+21	4,106666E+22
448	1,910897E+22	1,910943E+22	1,423745E+21	1,423478E+21	3,821840E+22	2,847222E+21	4,106562E+22
449	1,910908E+22	1,910899E+22	1,423524E+21	1,423806E+21	3,821807E+22	2,847330E+21	4,106540E+22
450	1,910899E+22	1,910785E+22	1,423657E+21	1,423632E+21	3,821684E+22	2,847290E+21	4,106413E+22
451	1,910776E+22	1,910876E+22	1,423844E+21	1,423621E+21	3,821652E+22	2,847465E+21	4,106399E+22
452	1,910826E+22	1,910804E+22	1,423580E+21	1,423863E+21	3,821630E+22	2,847443E+21	4,106374E+22
453	1,910789E+22	1,910791E+22	1,423809E+21	1,423573E+21	3,821580E+22	2,847383E+21	4,106318E+22
454	1,910768E+22	1,910884E+22	1,423746E+21	1,423700E+21	3,821652E+22	2,847446E+21	4,106397E+22
455	1,910896E+22	1,910795E+22	1,423507E+21	1,423717E+21	3,821691E+22	2,847224E+21	4,106413E+22
456	1,910868E+22	1,910899E+22	1,423735E+21	1,423412E+21	3,821767E+22	2,847147E+21	4,106482E+22
457	1,910933E+22	1,910984E+22	1,423488E+21	1,423676E+21	3,821917E+22	2,847164E+21	4,106634E+22
458	1,911022E+22	1,910931E+22	1,423419E+21	1,423507E+21	3,821953E+22	2,846925E+21	4,106646E+22
459	1,910966E+22	1,911060E+22	1,423612E+21	1,423355E+21	3,822026E+22	2,846967E+21	4,106722E+22
460	1,911053E+22	1,911039E+22	1,423328E+21	1,423613E+21	3,822092E+22	2,846941E+21	4,106786E+22
461	1,911066E+22	1,910999E+22	1,423501E+21	1,423340E+21	3,822065E+22	2,846841E+21	4,106749E+22
462	1,910977E+22	1,911087E+22	1,423616E+21	1,423444E+21	3,822064E+22	2,847060E+21	4,106770E+22
463	1,911023E+22	1,910956E+22	1,423375E+21	1,423653E+21	3,821979E+22	2,847028E+21	4,106682E+22
464	1,910919E+22	1,910928E+22	1,423694E+21	1,423451E+21	3,821847E+22	2,847145E+21	4,106561E+22
465	1,910850E+22	1,910930E+22	1,423629E+21	1,423762E+21	3,821780E+22	2,847392E+21	4,106519E+22
466	1,910886E+22	1,910755E+22	1,423565E+21	1,423778E+21	3,821641E+22	2,847343E+21	4,106375E+22
467	1,910752E+22	1,910784E+22	1,423901E+21	1,423609E+21	3,821536E+22	2,847510E+21	4,106287E+22
468	1,910738E+22	1,910744E+22	1,423714E+21	1,423954E+21	3,821482E+22	2,847668E+21	4,106249E+22
469	1,910724E+22	1,910642E+22	1,423843E+21	1,423795E+21	3,821366E+22	2,847637E+21	4,106129E+22
470	1,910587E+22	1,910727E+22	1,424023E+21	1,423790E+21	3,821315E+22	2,847813E+21	4,106096E+22
471	1,910663E+22	1,910625E+22	1,423722E+21	1,424037E+21	3,821288E+22	2,847759E+21	4,106063E+22
472	1,910653E+22	1,910617E+22	1,423923E+21	1,423709E+21	3,821270E+22	2,847632E+21	4,106033E+22
473	1,910638E+22	1,910735E+22	1,423869E+21	1,423829E+21	3,821373E+22	2,847698E+21	4,106143E+22
474	1,910777E+22	1,910670E+22	1,423620E+21	1,423850E+21	3,821447E+22	2,847470E+21	4,106194E+22
475	1,910738E+22	1,910783E+22	1,423838E+21	1,423529E+21	3,821521E+22	2,847368E+21	4,106258E+22
476	1,910786E+22	1,910855E+22	1,423632E+21	1,423804E+21	3,821641E+22	2,847436E+21	4,106385E+22
477	1,910886E+22	1,910803E+22	1,423572E+21	1,423624E+21	3,821688E+22	2,847195E+21	4,106408E+22
478	1,910819E+22	1,910926E+22	1,423784E+21	1,423473E+21	3,821746E+22	2,847257E+21	4,106471E+22
479	1,910907E+22	1,910877E+22	1,423489E+21	1,423756E+21	3,821784E+22	2,847245E+21	4,106509E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
480	1,910909E+22	1,910837E+22	1,423643E+21	1,423507E+21	3,821746E+22	2,847150E+21	4,106461E+22
481	1,910799E+22	1,910923E+22	1,423765E+21	1,423643E+21	3,821722E+22	2,847408E+21	4,106463E+22
482	1,910854E+22	1,910783E+22	1,423521E+21	1,423859E+21	3,821637E+22	2,847380E+21	4,106375E+22
483	1,910761E+22	1,910750E+22	1,423831E+21	1,423611E+21	3,821510E+22	2,847442E+21	4,106255E+22
484	1,910686E+22	1,910748E+22	1,423811E+21	1,423910E+21	3,821434E+22	2,847721E+21	4,106206E+22
485	1,910725E+22	1,910597E+22	1,423762E+21	1,423917E+21	3,821322E+22	2,847679E+21	4,106090E+22
486	1,910570E+22	1,910638E+22	1,424100E+21	1,423770E+21	3,821208E+22	2,847870E+21	4,105995E+22
487	1,910551E+22	1,910571E+22	1,423889E+21	1,424141E+21	3,821122E+22	2,848030E+21	4,105925E+22
488	1,910549E+22	1,910469E+22	1,423983E+21	1,423975E+21	3,821018E+22	2,847958E+21	4,105814E+22
489	1,910427E+22	1,910557E+22	1,424155E+21	1,423951E+21	3,820984E+22	2,848106E+21	4,105795E+22
490	1,910530E+22	1,910467E+22	1,423847E+21	1,424174E+21	3,820997E+22	2,848021E+21	4,105799E+22
491	1,910533E+22	1,910479E+22	1,424033E+21	1,423809E+21	3,821013E+22	2,847842E+21	4,105797E+22
492	1,910500E+22	1,910604E+22	1,424017E+21	1,423949E+21	3,821104E+22	2,847966E+21	4,105901E+22
493	1,910634E+22	1,910557E+22	1,423772E+21	1,423982E+21	3,821192E+22	2,847754E+21	4,105967E+22
494	1,910590E+22	1,910661E+22	1,423992E+21	1,423672E+21	3,821251E+22	2,847664E+21	4,106017E+22
495	1,910647E+22	1,910699E+22	1,423771E+21	1,423945E+21	3,821346E+22	2,847716E+21	4,106118E+22
496	1,910757E+22	1,910649E+22	1,423694E+21	1,423751E+21	3,821406E+22	2,847446E+21	4,106151E+22
497	1,910677E+22	1,910778E+22	1,423924E+21	1,423615E+21	3,821455E+22	2,847539E+21	4,106209E+22
498	1,910756E+22	1,910735E+22	1,423627E+21	1,423921E+21	3,821491E+22	2,847548E+21	4,106245E+22
499	1,910747E+22	1,910686E+22	1,423771E+21	1,423668E+21	3,821433E+22	2,847440E+21	4,106177E+22
500	1,910623E+22	1,910751E+22	1,423935E+21	1,423818E+21	3,821374E+22	2,847753E+21	4,106149E+22
501	1,910691E+22	1,910617E+22	1,423701E+21	1,424018E+21	3,821308E+22	2,847719E+21	4,106080E+22
502	1,910598E+22	1,910584E+22	1,424021E+21	1,423769E+21	3,821181E+22	2,847790E+21	4,105960E+22
503	1,910524E+22	1,910566E+22	1,423995E+21	1,424079E+21	3,821090E+22	2,848073E+21	4,105898E+22
504	1,910555E+22	1,910427E+22	1,423924E+21	1,424099E+21	3,820982E+22	2,848023E+21	4,105785E+22
505	1,910383E+22	1,910470E+22	1,424264E+21	1,423967E+21	3,820853E+22	2,848231E+21	4,105676E+22
506	1,910381E+22	1,910401E+22	1,424038E+21	1,424324E+21	3,820781E+22	2,848362E+21	4,105618E+22
507	1,910396E+22	1,910299E+22	1,424110E+21	1,424103E+21	3,820695E+22	2,848213E+21	4,105516E+22
508	1,910276E+22	1,910392E+22	1,424316E+21	1,424067E+21	3,820669E+22	2,848383E+21	4,105507E+22
509	1,910386E+22	1,910335E+22	1,424013E+21	1,424281E+21	3,820722E+22	2,848294E+21	4,105551E+22
510	1,910380E+22	1,910360E+22	1,424189E+21	1,423945E+21	3,820740E+22	2,848134E+21	4,105553E+22
511	1,910349E+22	1,910460E+22	1,424156E+21	1,424106E+21	3,820809E+22	2,848262E+21	4,105635E+22
512	1,910495E+22	1,910414E+22	1,423886E+21	1,424133E+21	3,820910E+22	2,848019E+21	4,105711E+22
513	1,910457E+22	1,910518E+22	1,424111E+21	1,423816E+21	3,820975E+22	2,847926E+21	4,105768E+22
514	1,910529E+22	1,910558E+22	1,423893E+21	1,424073E+21	3,821087E+22	2,847966E+21	4,105884E+22
515	1,910632E+22	1,910514E+22	1,423810E+21	1,423866E+21	3,821146E+22	2,847676E+21	4,105913E+22
516	1,910520E+22	1,910635E+22	1,424082E+21	1,423771E+21	3,821155E+22	2,847853E+21	4,105940E+22
517	1,910585E+22	1,910595E+22	1,423798E+21	1,424088E+21	3,821180E+22	2,847885E+21	4,105968E+22
518	1,910577E+22	1,910526E+22	1,423945E+21	1,423851E+21	3,821103E+22	2,847795E+21	4,105883E+22
519	1,910464E+22	1,910555E+22	1,424103E+21	1,423987E+21	3,821019E+22	2,848090E+21	4,105828E+22
520	1,910539E+22	1,910436E+22	1,423862E+21	1,424174E+21	3,820975E+22	2,848036E+21	4,105779E+22
521	1,910434E+22	1,910416E+22	1,424189E+21	1,423937E+21	3,820849E+22	2,848126E+21	4,105662E+22
522	1,910350E+22	1,910406E+22	1,424158E+21	1,424256E+21	3,820756E+22	2,848414E+21	4,105598E+22
523	1,910375E+22	1,910268E+22	1,424070E+21	1,424261E+21	3,820643E+22	2,848331E+21	4,105476E+22
524	1,910198E+22	1,910296E+22	1,424441E+21	1,424131E+21	3,820495E+22	2,848572E+21	4,105352E+22
525	1,910210E+22	1,910243E+22	1,424218E+21	1,424454E+21	3,820453E+22	2,848672E+21	4,105320E+22
526	1,910239E+22	1,910144E+22	1,424285E+21	1,424240E+21	3,820384E+22	2,848525E+21	4,105236E+22
527	1,910128E+22	1,910225E+22	1,424471E+21	1,424215E+21	3,820353E+22	2,848685E+21	4,105221E+22
528	1,910241E+22	1,910191E+22	1,424140E+21	1,424447E+21	3,820432E+22	2,848586E+21	4,105290E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
529	1,910232E+22	1,910220E+22	1,424306E+21	1,424120E+21	3,820452E+22	2,848426E+21	4,105295E+22
530	1,910224E+22	1,910318E+22	1,424264E+21	1,424259E+21	3,820542E+22	2,848523E+21	4,105395E+22
531	1,910382E+22	1,910278E+22	1,423982E+21	1,424229E+21	3,820660E+22	2,848211E+21	4,105481E+22
532	1,910331E+22	1,910381E+22	1,424256E+21	1,423920E+21	3,820712E+22	2,848176E+21	4,105530E+22
533	1,910386E+22	1,910443E+22	1,424058E+21	1,424174E+21	3,820828E+22	2,848232E+21	4,105652E+22
534	1,910469E+22	1,910389E+22	1,423978E+21	1,424019E+21	3,820857E+22	2,847996E+21	4,105657E+22
535	1,910354E+22	1,910466E+22	1,424239E+21	1,423949E+21	3,820820E+22	2,848188E+21	4,105639E+22
536	1,910428E+22	1,910421E+22	1,423941E+21	1,424263E+21	3,820849E+22	2,848205E+21	4,105669E+22
537	1,910422E+22	1,910350E+22	1,424092E+21	1,424020E+21	3,820772E+22	2,848112E+21	4,105583E+22
538	1,910324E+22	1,910384E+22	1,424251E+21	1,424143E+21	3,820708E+22	2,848394E+21	4,105547E+22
539	1,910386E+22	1,910278E+22	1,424010E+21	1,424314E+21	3,820664E+22	2,848323E+21	4,105496E+22
540	1,910248E+22	1,910256E+22	1,424378E+21	1,424120E+21	3,820505E+22	2,848498E+21	4,105354E+22
541	1,910153E+22	1,910253E+22	1,424358E+21	1,424425E+21	3,820406E+22	2,848783E+21	4,105284E+22
542	1,910186E+22	1,910097E+22	1,424263E+21	1,424443E+21	3,820283E+22	2,848706E+21	4,105153E+22
543	1,910027E+22	1,910095E+22	1,424610E+21	1,424294E+21	3,820122E+22	2,848904E+21	4,105012E+22
544	1,910055E+22	1,910062E+22	1,424368E+21	1,424603E+21	3,820117E+22	2,848971E+21	4,105014E+22
545	1,910084E+22	1,909987E+22	1,424422E+21	1,424401E+21	3,820071E+22	2,848823E+21	4,104953E+22
546	1,909987E+22	1,910081E+22	1,424585E+21	1,424380E+21	3,820068E+22	2,848965E+21	4,104964E+22
547	1,910107E+22	1,910058E+22	1,424243E+21	1,424578E+21	3,820165E+22	2,848821E+21	4,105047E+22
548	1,910099E+22	1,910086E+22	1,424438E+21	1,424251E+21	3,820185E+22	2,848690E+21	4,105054E+22
549	1,910094E+22	1,910203E+22	1,424414E+21	1,424342E+21	3,820297E+22	2,848757E+21	4,105173E+22
550	1,910252E+22	1,910160E+22	1,424141E+21	1,424334E+21	3,820412E+22	2,848475E+21	4,105259E+22
551	1,910189E+22	1,910231E+22	1,424409E+21	1,424054E+21	3,820420E+22	2,848463E+21	4,105266E+22
552	1,910228E+22	1,910298E+22	1,424200E+21	1,424340E+21	3,820526E+22	2,848539E+21	4,105380E+22
553	1,910305E+22	1,910230E+22	1,424113E+21	1,424209E+21	3,820536E+22	2,848323E+21	4,105368E+22
554	1,910213E+22	1,910292E+22	1,424360E+21	1,424125E+21	3,820504E+22	2,848485E+21	4,105353E+22
555	1,910296E+22	1,910255E+22	1,424063E+21	1,424389E+21	3,820550E+22	2,848452E+21	4,105395E+22
556	1,910274E+22	1,910190E+22	1,424260E+21	1,424162E+21	3,820464E+22	2,848422E+21	4,105306E+22
557	1,910152E+22	1,910248E+22	1,424443E+21	1,424273E+21	3,820400E+22	2,848716E+21	4,105272E+22
558	1,910194E+22	1,910132E+22	1,424209E+21	1,424493E+21	3,820327E+22	2,848702E+21	4,105197E+22
559	1,910051E+22	1,910066E+22	1,424568E+21	1,424319E+21	3,820116E+22	2,848886E+21	4,105005E+22
560	1,909969E+22	1,910061E+22	1,424526E+21	1,424609E+21	3,820031E+22	2,849135E+21	4,104944E+22
561	1,910015E+22	1,909906E+22	1,424421E+21	1,424620E+21	3,819921E+22	2,849040E+21	4,104825E+22
562	1,909886E+22	1,909912E+22	1,424741E+21	1,424457E+21	3,819798E+22	2,849198E+21	4,104718E+22
563	1,909916E+22	1,909908E+22	1,424487E+21	1,424738E+21	3,819824E+22	2,849225E+21	4,104747E+22
564	1,909930E+22	1,909849E+22	1,424567E+21	1,424564E+21	3,819779E+22	2,849131E+21	4,104692E+22
565	1,909836E+22	1,909961E+22	1,424741E+21	1,424506E+21	3,819797E+22	2,849247E+21	4,104722E+22
566	1,909966E+22	1,909931E+22	1,424405E+21	1,424699E+21	3,819897E+22	2,849105E+21	4,104808E+22
567	1,909963E+22	1,909934E+22	1,424589E+21	1,424363E+21	3,819896E+22	2,848952E+21	4,104792E+22
568	1,909958E+22	1,910061E+22	1,424556E+21	1,424451E+21	3,820020E+22	2,849007E+21	4,104920E+22
569	1,910095E+22	1,910023E+22	1,424278E+21	1,424478E+21	3,820117E+22	2,848756E+21	4,104993E+22
570	1,910043E+22	1,910083E+22	1,424517E+21	1,424227E+21	3,820126E+22	2,848745E+21	4,105000E+22
571	1,910087E+22	1,910146E+22	1,424304E+21	1,424486E+21	3,820233E+22	2,848790E+21	4,105112E+22
572	1,910162E+22	1,910076E+22	1,424252E+21	1,424368E+21	3,820239E+22	2,848619E+21	4,105101E+22
573	1,910074E+22	1,910153E+22	1,424519E+21	1,424240E+21	3,820227E+22	2,848760E+21	4,105102E+22
574	1,910149E+22	1,910113E+22	1,424247E+21	1,424527E+21	3,820262E+22	2,848774E+21	4,105140E+22
575	1,910102E+22	1,910023E+22	1,424443E+21	1,424337E+21	3,820125E+22	2,848780E+21	4,105003E+22
576	1,909963E+22	1,910079E+22	1,424621E+21	1,424468E+21	3,820042E+22	2,849089E+21	4,104951E+22
577	1,909998E+22	1,909948E+22	1,424386E+21	1,424701E+21	3,819946E+22	2,849088E+21	4,104855E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
578	1,909886E+22	1,909863E+22	1,424713E+21	1,424511E+21	3,819749E+22	2,849224E+21	4,104671E+22
579	1,909818E+22	1,909873E+22	1,424661E+21	1,424742E+21	3,819691E+22	2,849403E+21	4,104631E+22
580	1,909857E+22	1,909740E+22	1,424584E+21	1,424769E+21	3,819597E+22	2,849353E+21	4,104532E+22
581	1,909722E+22	1,909780E+22	1,424907E+21	1,424583E+21	3,819502E+22	2,849490E+21	4,104451E+22
582	1,909753E+22	1,909781E+22	1,424664E+21	1,424892E+21	3,819534E+22	2,849556E+21	4,104490E+22
583	1,909769E+22	1,909693E+22	1,424727E+21	1,424718E+21	3,819462E+22	2,849445E+21	4,104407E+22
584	1,909688E+22	1,909813E+22	1,424888E+21	1,424633E+21	3,819501E+22	2,849521E+21	4,104453E+22
585	1,909824E+22	1,909786E+22	1,424546E+21	1,424822E+21	3,819609E+22	2,849368E+21	4,104546E+22
586	1,909838E+22	1,909782E+22	1,424700E+21	1,424498E+21	3,819621E+22	2,849198E+21	4,104540E+22
587	1,909824E+22	1,909926E+22	1,424656E+21	1,424578E+21	3,819750E+22	2,849234E+21	4,104674E+22
588	1,909945E+22	1,909889E+22	1,424404E+21	1,424651E+21	3,819833E+22	2,849055E+21	4,104739E+22
589	1,909899E+22	1,909953E+22	1,424652E+21	1,424367E+21	3,819852E+22	2,849019E+21	4,104754E+22
590	1,909957E+22	1,910005E+22	1,424460E+21	1,424623E+21	3,819961E+22	2,849082E+21	4,104869E+22
591	1,910024E+22	1,909911E+22	1,424410E+21	1,424500E+21	3,819935E+22	2,848910E+21	4,104826E+22
592	1,909924E+22	1,910000E+22	1,424686E+21	1,424376E+21	3,819924E+22	2,849062E+21	4,104830E+22
593	1,909969E+22	1,909960E+22	1,424424E+21	1,424696E+21	3,819929E+22	2,849120E+21	4,104841E+22
594	1,909926E+22	1,909848E+22	1,424595E+21	1,424543E+21	3,819775E+22	2,849138E+21	4,104688E+22
595	1,909788E+22	1,909898E+22	1,424764E+21	1,424638E+21	3,819687E+22	2,849402E+21	4,104627E+22
596	1,909822E+22	1,909767E+22	1,424556E+21	1,424880E+21	3,819589E+22	2,849436E+21	4,104532E+22
597	1,909724E+22	1,909698E+22	1,424888E+21	1,424642E+21	3,819422E+22	2,849530E+21	4,104375E+22
598	1,909659E+22	1,909714E+22	1,424854E+21	1,424885E+21	3,819373E+22	2,849739E+21	4,104347E+22
599	1,909679E+22	1,909574E+22	1,424764E+21	1,424942E+21	3,819253E+22	2,849706E+21	4,104224E+22
600	1,909548E+22	1,909624E+22	1,425068E+21	1,424761E+21	3,819172E+22	2,849830E+21	4,104155E+22
601	1,909581E+22	1,909620E+22	1,424826E+21	1,425064E+21	3,819201E+22	2,849891E+21	4,104190E+22
602	1,909632E+22	1,909527E+22	1,424845E+21	1,424872E+21	3,819159E+22	2,849717E+21	4,104130E+22
603	1,909563E+22	1,909661E+22	1,424992E+21	1,424731E+21	3,819224E+22	2,849723E+21	4,104196E+22
604	1,909683E+22	1,909653E+22	1,424676E+21	1,424944E+21	3,819337E+22	2,849621E+21	4,104299E+22
605	1,909693E+22	1,909671E+22	1,424830E+21	1,424614E+21	3,819363E+22	2,849444E+21	4,104308E+22
606	1,909682E+22	1,909803E+22	1,424804E+21	1,424724E+21	3,819485E+22	2,849527E+21	4,104438E+22
607	1,909798E+22	1,909739E+22	1,424548E+21	1,424804E+21	3,819537E+22	2,849352E+21	4,104472E+22
608	1,909768E+22	1,909804E+22	1,424789E+21	1,424502E+21	3,819571E+22	2,849291E+21	4,104500E+22
609	1,909819E+22	1,909855E+22	1,424618E+21	1,424754E+21	3,819673E+22	2,849372E+21	4,104611E+22
610	1,909889E+22	1,909754E+22	1,424546E+21	1,424657E+21	3,819643E+22	2,849203E+21	4,104564E+22
611	1,909767E+22	1,909849E+22	1,424821E+21	1,424532E+21	3,819615E+22	2,849353E+21	4,104551E+22
612	1,909785E+22	1,909803E+22	1,424594E+21	1,424891E+21	3,819588E+22	2,849485E+21	4,104536E+22
613	1,909747E+22	1,909686E+22	1,424774E+21	1,424708E+21	3,819433E+22	2,849483E+21	4,104381E+22
614	1,909624E+22	1,909723E+22	1,424956E+21	1,424797E+21	3,819347E+22	2,849752E+21	4,104322E+22
615	1,909648E+22	1,909575E+22	1,424745E+21	1,425035E+21	3,819223E+22	2,849780E+21	4,104201E+22
616	1,909548E+22	1,909524E+22	1,425062E+21	1,424800E+21	3,819072E+22	2,849862E+21	4,104058E+22
617	1,909472E+22	1,909550E+22	1,425030E+21	1,425067E+21	3,819022E+22	2,850096E+21	4,104032E+22
618	1,909512E+22	1,909402E+22	1,424903E+21	1,425140E+21	3,818914E+22	2,850042E+21	4,103919E+22
619	1,909397E+22	1,909462E+22	1,425188E+21	1,424910E+21	3,818859E+22	2,850098E+21	4,103869E+22
620	1,909435E+22	1,909470E+22	1,424969E+21	1,425202E+21	3,818906E+22	2,850171E+21	4,103923E+22
621	1,909498E+22	1,909398E+22	1,424987E+21	1,424968E+21	3,818895E+22	2,849955E+21	4,103891E+22
622	1,909432E+22	1,909535E+22	1,425144E+21	1,424846E+21	3,818967E+22	2,849990E+21	4,103966E+22
623	1,909524E+22	1,909516E+22	1,424823E+21	1,425092E+21	3,819040E+22	2,849914E+21	4,104031E+22
624	1,909542E+22	1,909531E+22	1,424964E+21	1,424772E+21	3,819073E+22	2,849736E+21	4,104047E+22
625	1,909539E+22	1,909652E+22	1,424952E+21	1,424877E+21	3,819191E+22	2,849828E+21	4,104174E+22
626	1,909681E+22	1,909579E+22	1,424665E+21	1,424949E+21	3,819260E+22	2,849614E+21	4,104221E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
627	1,909650E+22	1,909657E+22	1,424901E+21	1,424613E+21	3,819307E+22	2,849514E+21	4,104258E+22
628	1,909668E+22	1,909722E+22	1,424771E+21	1,424894E+21	3,819389E+22	2,849665E+21	4,104356E+22
629	1,909721E+22	1,909629E+22	1,424707E+21	1,424805E+21	3,819351E+22	2,849512E+21	4,104302E+22
630	1,909595E+22	1,909697E+22	1,425007E+21	1,424705E+21	3,819292E+22	2,849712E+21	4,104263E+22
631	1,909594E+22	1,909621E+22	1,424783E+21	1,425069E+21	3,819215E+22	2,849851E+21	4,104201E+22
632	1,909574E+22	1,909499E+22	1,424949E+21	1,424877E+21	3,819074E+22	2,849825E+21	4,104056E+22
633	1,909451E+22	1,909531E+22	1,425142E+21	1,424964E+21	3,818982E+22	2,850106E+21	4,103993E+22
634	1,909486E+22	1,909388E+22	1,424895E+21	1,425228E+21	3,818873E+22	2,850123E+21	4,103886E+22
635	1,909382E+22	1,909354E+22	1,425190E+21	1,424983E+21	3,818737E+22	2,850173E+21	4,103754E+22
636	1,909298E+22	1,909390E+22	1,425188E+21	1,425258E+21	3,818688E+22	2,850446E+21	4,103732E+22
637	1,909356E+22	1,909256E+22	1,425061E+21	1,425279E+21	3,818612E+22	2,850340E+21	4,103646E+22
638	1,909259E+22	1,909314E+22	1,425354E+21	1,425026E+21	3,818573E+22	2,850380E+21	4,103611E+22
639	1,909278E+22	1,909319E+22	1,425138E+21	1,425309E+21	3,818597E+22	2,850447E+21	4,103642E+22
640	1,909341E+22	1,909260E+22	1,425136E+21	1,425092E+21	3,818600E+22	2,850229E+21	4,103623E+22
641	1,909268E+22	1,909394E+22	1,425296E+21	1,425001E+21	3,818663E+22	2,850297E+21	4,103693E+22
642	1,909384E+22	1,909362E+22	1,424935E+21	1,425267E+21	3,818746E+22	2,850202E+21	4,103766E+22
643	1,909421E+22	1,909384E+22	1,425054E+21	1,424909E+21	3,818806E+22	2,849964E+21	4,103802E+22
644	1,909420E+22	1,909516E+22	1,425075E+21	1,425007E+21	3,818936E+22	2,850082E+21	4,103944E+22
645	1,909561E+22	1,909459E+22	1,424805E+21	1,425047E+21	3,819020E+22	2,849852E+21	4,104005E+22
646	1,909517E+22	1,909534E+22	1,425062E+21	1,424745E+21	3,819051E+22	2,849807E+21	4,104032E+22
647	1,909488E+22	1,909576E+22	1,424945E+21	1,425058E+21	3,819064E+22	2,850003E+21	4,104064E+22
648	1,909539E+22	1,909465E+22	1,424880E+21	1,424989E+21	3,819003E+22	2,849869E+21	4,103990E+22
649	1,909419E+22	1,909509E+22	1,425189E+21	1,424890E+21	3,818928E+22	2,850079E+21	4,103936E+22
650	1,909439E+22	1,909419E+22	1,424930E+21	1,425247E+21	3,818858E+22	2,850177E+21	4,103876E+22
651	1,909422E+22	1,909313E+22	1,425081E+21	1,425030E+21	3,818735E+22	2,850111E+21	4,103746E+22
652	1,909280E+22	1,909366E+22	1,425301E+21	1,425139E+21	3,818646E+22	2,850439E+21	4,103690E+22
653	1,909310E+22	1,909242E+22	1,425062E+21	1,425392E+21	3,818552E+22	2,850454E+21	4,103598E+22
654	1,909218E+22	1,909202E+22	1,425369E+21	1,425151E+21	3,818420E+22	2,850520E+21	4,103472E+22
655	1,909118E+22	1,909225E+22	1,425374E+21	1,425404E+21	3,818343E+22	2,850778E+21	4,103421E+22
656	1,909195E+22	1,909096E+22	1,425235E+21	1,425409E+21	3,818291E+22	2,850644E+21	4,103355E+22
657	1,909100E+22	1,909152E+22	1,425530E+21	1,425161E+21	3,818252E+22	2,850691E+21	4,103321E+22
658	1,909125E+22	1,909158E+22	1,425266E+21	1,425472E+21	3,818283E+22	2,850738E+21	4,103357E+22
659	1,909192E+22	1,909111E+22	1,425234E+21	1,425260E+21	3,818303E+22	2,850494E+21	4,103352E+22
660	1,909125E+22	1,909249E+22	1,425413E+21	1,425176E+21	3,818375E+22	2,850589E+21	4,103433E+22
661	1,909266E+22	1,909233E+22	1,425059E+21	1,425390E+21	3,818500E+22	2,850449E+21	4,103545E+22
662	1,909320E+22	1,909255E+22	1,425187E+21	1,425011E+21	3,818575E+22	2,850198E+21	4,103595E+22
663	1,909280E+22	1,909384E+22	1,425231E+21	1,425105E+21	3,818664E+22	2,850337E+21	4,103697E+22
664	1,909406E+22	1,909333E+22	1,424959E+21	1,425172E+21	3,818739E+22	2,850132E+21	4,103752E+22
665	1,909342E+22	1,909385E+22	1,425236E+21	1,424916E+21	3,818727E+22	2,850152E+21	4,103742E+22
666	1,909320E+22	1,909401E+22	1,425089E+21	1,425246E+21	3,818721E+22	2,850334E+21	4,103754E+22
667	1,909385E+22	1,909285E+22	1,425005E+21	1,425161E+21	3,818670E+22	2,850166E+21	4,103686E+22
668	1,909267E+22	1,909330E+22	1,425338E+21	1,425057E+21	3,818597E+22	2,850395E+21	4,103636E+22
669	1,909290E+22	1,909260E+22	1,425092E+21	1,425387E+21	3,818550E+22	2,850479E+21	4,103598E+22
670	1,909265E+22	1,909159E+22	1,425252E+21	1,425193E+21	3,818425E+22	2,850444E+21	4,103469E+22
671	1,909085E+22	1,909204E+22	1,425489E+21	1,425317E+21	3,818289E+22	2,850807E+21	4,103369E+22
672	1,909123E+22	1,909076E+22	1,425256E+21	1,425569E+21	3,818199E+22	2,850825E+21	4,103282E+22
673	1,909042E+22	1,909023E+22	1,425567E+21	1,425322E+21	3,818065E+22	2,850889E+21	4,103154E+22
674	1,908960E+22	1,909040E+22	1,425528E+21	1,425556E+21	3,818000E+22	2,851083E+21	4,103108E+22
675	1,909040E+22	1,908930E+22	1,425360E+21	1,425550E+21	3,817970E+22	2,850910E+21	4,103061E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
676	1,908940E+22	1,909001E+22	1,425656E+21	1,425326E+21	3,817941E+22	2,850982E+21	4,103039E+22
677	1,908976E+22	1,909024E+22	1,425394E+21	1,425617E+21	3,818000E+22	2,851011E+21	4,103101E+22
678	1,909065E+22	1,908979E+22	1,425361E+21	1,425399E+21	3,818044E+22	2,850759E+21	4,103120E+22
679	1,908992E+22	1,909112E+22	1,425550E+21	1,425291E+21	3,818103E+22	2,850841E+21	4,103188E+22
680	1,909142E+22	1,909104E+22	1,425209E+21	1,425486E+21	3,818246E+22	2,850695E+21	4,103316E+22
681	1,909187E+22	1,909123E+22	1,425349E+21	1,425132E+21	3,818310E+22	2,850481E+21	4,103358E+22
682	1,909132E+22	1,909240E+22	1,425360E+21	1,425255E+21	3,818372E+22	2,850615E+21	4,103434E+22
683	1,909246E+22	1,909184E+22	1,425077E+21	1,425343E+21	3,818430E+22	2,850420E+21	4,103472E+22
684	1,909182E+22	1,909219E+22	1,425375E+21	1,425103E+21	3,818401E+22	2,850478E+21	4,103449E+22
685	1,909175E+22	1,909238E+22	1,425238E+21	1,425389E+21	3,818413E+22	2,850627E+21	4,103476E+22
686	1,909248E+22	1,909123E+22	1,425164E+21	1,425295E+21	3,818371E+22	2,850459E+21	4,103417E+22
687	1,909094E+22	1,909165E+22	1,425515E+21	1,425199E+21	3,818259E+22	2,850714E+21	4,103330E+22
688	1,909105E+22	1,909104E+22	1,425283E+21	1,425551E+21	3,818210E+22	2,850834E+21	4,103293E+22
689	1,909072E+22	1,908990E+22	1,425454E+21	1,425394E+21	3,818062E+22	2,850848E+21	4,103147E+22
690	1,908902E+22	1,909016E+22	1,425654E+21	1,425513E+21	3,817918E+22	2,851167E+21	4,103035E+22
691	1,908958E+22	1,908892E+22	1,425402E+21	1,425742E+21	3,817851E+22	2,851143E+21	4,102965E+22
692	1,908883E+22	1,908845E+22	1,425722E+21	1,425487E+21	3,817728E+22	2,851209E+21	4,102849E+22
693	1,908809E+22	1,908887E+22	1,425677E+21	1,425690E+21	3,817696E+22	2,851367E+21	4,102833E+22
694	1,908891E+22	1,908787E+22	1,425498E+21	1,425699E+21	3,817678E+22	2,851198E+21	4,102798E+22
695	1,908769E+22	1,908852E+22	1,425801E+21	1,425481E+21	3,817621E+22	2,851282E+21	4,102749E+22
696	1,908831E+22	1,908881E+22	1,425548E+21	1,425753E+21	3,817712E+22	2,851301E+21	4,102842E+22
697	1,908936E+22	1,908835E+22	1,425518E+21	1,425524E+21	3,817771E+22	2,851042E+21	4,102875E+22
698	1,908871E+22	1,908966E+22	1,425674E+21	1,425399E+21	3,817837E+22	2,851073E+21	4,102944E+22
699	1,909012E+22	1,908974E+22	1,425321E+21	1,425599E+21	3,817986E+22	2,850920E+21	4,103078E+22
700	1,909034E+22	1,908994E+22	1,425472E+21	1,425289E+21	3,818028E+22	2,850762E+21	4,103104E+22
701	1,908980E+22	1,909108E+22	1,425494E+21	1,425403E+21	3,818088E+22	2,850897E+21	4,103178E+22
702	1,909103E+22	1,909039E+22	1,425216E+21	1,425492E+21	3,818142E+22	2,850708E+21	4,103213E+22
703	1,909025E+22	1,909057E+22	1,425532E+21	1,425245E+21	3,818082E+22	2,850777E+21	4,103159E+22
704	1,909026E+22	1,909077E+22	1,425419E+21	1,425520E+21	3,818103E+22	2,850939E+21	4,103197E+22
705	1,909086E+22	1,908961E+22	1,425355E+21	1,425466E+21	3,818046E+22	2,850820E+21	4,103128E+22
706	1,908917E+22	1,908991E+22	1,425667E+21	1,425397E+21	3,817908E+22	2,851064E+21	4,103015E+22
707	1,908924E+22	1,908928E+22	1,425435E+21	1,425758E+21	3,817852E+22	2,851194E+21	4,102971E+22
708	1,908898E+22	1,908807E+22	1,425617E+21	1,425604E+21	3,817704E+22	2,851221E+21	4,102826E+22
709	1,908747E+22	1,908840E+22	1,425819E+21	1,425659E+21	3,817587E+22	2,851478E+21	4,102735E+22
710	1,908807E+22	1,908728E+22	1,425568E+21	1,425866E+21	3,817535E+22	2,851433E+21	4,102678E+22
711	1,908702E+22	1,908685E+22	1,425889E+21	1,425621E+21	3,817387E+22	2,851510E+21	4,102538E+22
712	1,908628E+22	1,908736E+22	1,425854E+21	1,425830E+21	3,817364E+22	2,851684E+21	4,102533E+22
713	1,908719E+22	1,908635E+22	1,425673E+21	1,425871E+21	3,817354E+22	2,851544E+21	4,102509E+22
714	1,908622E+22	1,908690E+22	1,425925E+21	1,425637E+21	3,817313E+22	2,851562E+21	4,102469E+22
715	1,908706E+22	1,908732E+22	1,425665E+21	1,425883E+21	3,817439E+22	2,851549E+21	4,102594E+22
716	1,908814E+22	1,908698E+22	1,425640E+21	1,425652E+21	3,817512E+22	2,851293E+21	4,102642E+22
717	1,908748E+22	1,908845E+22	1,425796E+21	1,425510E+21	3,817593E+22	2,851306E+21	4,102724E+22
718	1,908872E+22	1,908856E+22	1,425446E+21	1,425729E+21	3,817728E+22	2,851175E+21	4,102846E+22
719	1,908865E+22	1,908853E+22	1,425617E+21	1,425448E+21	3,817718E+22	2,851065E+21	4,102824E+22
720	1,908827E+22	1,908955E+22	1,425663E+21	1,425549E+21	3,817782E+22	2,851212E+21	4,102903E+22
721	1,908957E+22	1,908876E+22	1,425392E+21	1,425649E+21	3,817834E+22	2,851041E+21	4,102938E+22
722	1,908880E+22	1,908882E+22	1,425669E+21	1,425397E+21	3,817762E+22	2,851067E+21	4,102868E+22
723	1,908872E+22	1,908912E+22	1,425557E+21	1,425685E+21	3,817784E+22	2,851243E+21	4,102909E+22
724	1,908911E+22	1,908797E+22	1,425506E+21	1,425664E+21	3,817709E+22	2,851170E+21	4,102826E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
725	1,908749E+22	1,908829E+22	1,425828E+21	1,425575E+21	3,817579E+22	2,851403E+21	4,102719E+22
726	1,908763E+22	1,908764E+22	1,425603E+21	1,425913E+21	3,817526E+22	2,851516E+21	4,102678E+22
727	1,908716E+22	1,908633E+22	1,425806E+21	1,425751E+21	3,817349E+22	2,851557E+21	4,102504E+22
728	1,908575E+22	1,908673E+22	1,426021E+21	1,425787E+21	3,817248E+22	2,851809E+21	4,102429E+22
729	1,908625E+22	1,908564E+22	1,425766E+21	1,426032E+21	3,817189E+22	2,851798E+21	4,102369E+22
730	1,908519E+22	1,908509E+22	1,426030E+21	1,425807E+21	3,817028E+22	2,851837E+21	4,102212E+22
731	1,908465E+22	1,908564E+22	1,425987E+21	1,426017E+21	3,817029E+22	2,852004E+21	4,102229E+22
732	1,908575E+22	1,908473E+22	1,425804E+21	1,426044E+21	3,817048E+22	2,851848E+21	4,102232E+22
733	1,908509E+22	1,908548E+22	1,426044E+21	1,425754E+21	3,817057E+22	2,851799E+21	4,102237E+22
734	1,908592E+22	1,908610E+22	1,425792E+21	1,425973E+21	3,817202E+22	2,851765E+21	4,102378E+22
735	1,908661E+22	1,908580E+22	1,425779E+21	1,425765E+21	3,817241E+22	2,851544E+21	4,102396E+22
736	1,908590E+22	1,908723E+22	1,425955E+21	1,425635E+21	3,817313E+22	2,851590E+21	4,102472E+22
737	1,908711E+22	1,908719E+22	1,425613E+21	1,425891E+21	3,817430E+22	2,851503E+21	4,102580E+22
738	1,908718E+22	1,908688E+22	1,425741E+21	1,425610E+21	3,817407E+22	2,851351E+21	4,102542E+22
739	1,908697E+22	1,908788E+22	1,425793E+21	1,425701E+21	3,817485E+22	2,851494E+21	4,102634E+22
740	1,908823E+22	1,908718E+22	1,425533E+21	1,425811E+21	3,817540E+22	2,851344E+21	4,102675E+22
741	1,908743E+22	1,908733E+22	1,425803E+21	1,425552E+21	3,817476E+22	2,851355E+21	4,102612E+22
742	1,908711E+22	1,908767E+22	1,425708E+21	1,425844E+21	3,817478E+22	2,851553E+21	4,102633E+22
743	1,908722E+22	1,908636E+22	1,425686E+21	1,425841E+21	3,817358E+22	2,851527E+21	4,102511E+22
744	1,908572E+22	1,908657E+22	1,426037E+21	1,425726E+21	3,817229E+22	2,851763E+21	4,102406E+22
745	1,908584E+22	1,908589E+22	1,425822E+21	1,426068E+21	3,817172E+22	2,851890E+21	4,102361E+22
746	1,908534E+22	1,908443E+22	1,425976E+21	1,425915E+21	3,816977E+22	2,851891E+21	4,102166E+22
747	1,908392E+22	1,908489E+22	1,426178E+21	1,425971E+21	3,816881E+22	2,852149E+21	4,102096E+22
748	1,908440E+22	1,908388E+22	1,425914E+21	1,426238E+21	3,816828E+22	2,852152E+21	4,102043E+22
749	1,908365E+22	1,908343E+22	1,426155E+21	1,425985E+21	3,816709E+22	2,852140E+21	4,101923E+22
750	1,908335E+22	1,908415E+22	1,426115E+21	1,426149E+21	3,816749E+22	2,852264E+21	4,101976E+22
751	1,908435E+22	1,908334E+22	1,425951E+21	1,426160E+21	3,816770E+22	2,852111E+21	4,101981E+22
752	1,908378E+22	1,908424E+22	1,426211E+21	1,425849E+21	3,816802E+22	2,852060E+21	4,102008E+22
753	1,908442E+22	1,908491E+22	1,425960E+21	1,426104E+21	3,816934E+22	2,852065E+21	4,102140E+22
754	1,908498E+22	1,908437E+22	1,425902E+21	1,425927E+21	3,816935E+22	2,851829E+21	4,102118E+22
755	1,908445E+22	1,908564E+22	1,426079E+21	1,425809E+21	3,817009E+22	2,851888E+21	4,102198E+22
756	1,908575E+22	1,908558E+22	1,425741E+21	1,426052E+21	3,817132E+22	2,851793E+21	4,102312E+22
757	1,908606E+22	1,908536E+22	1,425857E+21	1,425738E+21	3,817142E+22	2,851595E+21	4,102302E+22
758	1,908577E+22	1,908649E+22	1,425922E+21	1,425809E+21	3,817226E+22	2,851730E+21	4,102399E+22
759	1,908654E+22	1,908581E+22	1,425692E+21	1,425951E+21	3,817236E+22	2,851643E+21	4,102400E+22
760	1,908568E+22	1,908593E+22	1,425992E+21	1,425705E+21	3,817160E+22	2,851697E+21	4,102330E+22
761	1,908528E+22	1,908611E+22	1,425915E+21	1,426019E+21	3,817139E+22	2,851934E+21	4,102333E+22
762	1,908541E+22	1,908450E+22	1,425858E+21	1,426021E+21	3,816991E+22	2,851878E+21	4,102179E+22
763	1,908406E+22	1,908462E+22	1,426211E+21	1,425904E+21	3,816868E+22	2,852115E+21	4,102080E+22
764	1,908407E+22	1,908402E+22	1,425991E+21	1,426252E+21	3,816809E+22	2,852243E+21	4,102033E+22
765	1,908365E+22	1,908268E+22	1,426115E+21	1,426106E+21	3,816633E+22	2,852220E+21	4,101855E+22
766	1,908224E+22	1,908320E+22	1,426314E+21	1,426149E+21	3,816544E+22	2,852463E+21	4,101791E+22
767	1,908266E+22	1,908223E+22	1,426075E+21	1,426413E+21	3,816489E+22	2,852488E+21	4,101738E+22
768	1,908223E+22	1,908191E+22	1,426329E+21	1,426111E+21	3,816414E+22	2,852440E+21	4,101658E+22
769	1,908197E+22	1,908277E+22	1,426298E+21	1,426264E+21	3,816473E+22	2,852562E+21	4,101730E+22
770	1,908286E+22	1,908192E+22	1,426092E+21	1,426279E+21	3,816478E+22	2,852371E+21	4,101715E+22
771	1,908225E+22	1,908282E+22	1,426346E+21	1,425994E+21	3,816507E+22	2,852340E+21	4,101741E+22
772	1,908279E+22	1,908350E+22	1,426093E+21	1,426266E+21	3,816629E+22	2,852358E+21	4,101864E+22
773	1,908364E+22	1,908289E+22	1,426008E+21	1,426081E+21	3,816654E+22	2,852088E+21	4,101863E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
774	1,908326E+22	1,908418E+22	1,426190E+21	1,425927E+21	3,816744E+22	2,852118E+21	4,101956E+22
775	1,908442E+22	1,908418E+22	1,425885E+21	1,426170E+21	3,816860E+22	2,852055E+21	4,102066E+22
776	1,908474E+22	1,908406E+22	1,426021E+21	1,425849E+21	3,816880E+22	2,851870E+21	4,102067E+22
777	1,908418E+22	1,908520E+22	1,426099E+21	1,425963E+21	3,816938E+22	2,852062E+21	4,102144E+22
778	1,908473E+22	1,908421E+22	1,425846E+21	1,426136E+21	3,816895E+22	2,851982E+21	4,102093E+22
779	1,908398E+22	1,908409E+22	1,426158E+21	1,425908E+21	3,816808E+22	2,852066E+21	4,102014E+22
780	1,908358E+22	1,908425E+22	1,426086E+21	1,426201E+21	3,816782E+22	2,852287E+21	4,102011E+22
781	1,908388E+22	1,908266E+22	1,426007E+21	1,426188E+21	3,816654E+22	2,852196E+21	4,101874E+22
782	1,908246E+22	1,908287E+22	1,426358E+21	1,426053E+21	3,816533E+22	2,852411E+21	4,101775E+22
783	1,908213E+22	1,908234E+22	1,426161E+21	1,426425E+21	3,816448E+22	2,852586E+21	4,101706E+22
784	1,908184E+22	1,908107E+22	1,426298E+21	1,426271E+21	3,816291E+22	2,852569E+21	4,101548E+22
785	1,908055E+22	1,908163E+22	1,426501E+21	1,426316E+21	3,816219E+22	2,852817E+21	4,101500E+22
786	1,908105E+22	1,908055E+22	1,426237E+21	1,426563E+21	3,816161E+22	2,852800E+21	4,101441E+22
787	1,908086E+22	1,908030E+22	1,426488E+21	1,426255E+21	3,816116E+22	2,852744E+21	4,101390E+22
788	1,908046E+22	1,908131E+22	1,426449E+21	1,426398E+21	3,816177E+22	2,852847E+21	4,101461E+22
789	1,908138E+22	1,908054E+22	1,426206E+21	1,426429E+21	3,816192E+22	2,852636E+21	4,101456E+22
790	1,908080E+22	1,908140E+22	1,426451E+21	1,426137E+21	3,816220E+22	2,852588E+21	4,101479E+22
791	1,908125E+22	1,908203E+22	1,426227E+21	1,426407E+21	3,816328E+22	2,852633E+21	4,101592E+22
792	1,908239E+22	1,908153E+22	1,426158E+21	1,426190E+21	3,816392E+22	2,852347E+21	4,101627E+22
793	1,908203E+22	1,908289E+22	1,426348E+21	1,426044E+21	3,816492E+22	2,852392E+21	4,101731E+22
794	1,908295E+22	1,908277E+22	1,426026E+21	1,426303E+21	3,816572E+22	2,852329E+21	4,101805E+22
795	1,908322E+22	1,908256E+22	1,426163E+21	1,426022E+21	3,816578E+22	2,852186E+21	4,101797E+22
796	1,908247E+22	1,908363E+22	1,426248E+21	1,426140E+21	3,816610E+22	2,852389E+21	4,101849E+22
797	1,908321E+22	1,908255E+22	1,425979E+21	1,426313E+21	3,816576E+22	2,852292E+21	4,101805E+22
798	1,908253E+22	1,908237E+22	1,426301E+21	1,426057E+21	3,816490E+22	2,852358E+21	4,101726E+22
799	1,908189E+22	1,908255E+22	1,426265E+21	1,426349E+21	3,816444E+22	2,852615E+21	4,101705E+22
800	1,908218E+22	1,908106E+22	1,426202E+21	1,426337E+21	3,816324E+22	2,852540E+21	4,101578E+22
801	1,908059E+22	1,908127E+22	1,426549E+21	1,426238E+21	3,816186E+22	2,852787E+21	4,101465E+22
802	1,908018E+22	1,908049E+22	1,426335E+21	1,426621E+21	3,816067E+22	2,852956E+21	4,101363E+22
803	1,908018E+22	1,907915E+22	1,426472E+21	1,426463E+21	3,815933E+22	2,852935E+21	4,101227E+22
804	1,907896E+22	1,907989E+22	1,426669E+21	1,426468E+21	3,815885E+22	2,853137E+21	4,101199E+22
805	1,907967E+22	1,907897E+22	1,426377E+21	1,426700E+21	3,815864E+22	2,853077E+21	4,101171E+22
806	1,907936E+22	1,907886E+22	1,426614E+21	1,426379E+21	3,815822E+22	2,852993E+21	4,101122E+22
807	1,907869E+22	1,907995E+22	1,426593E+21	1,426538E+21	3,815864E+22	2,853132E+21	4,101177E+22
808	1,907978E+22	1,907920E+22	1,426358E+21	1,426563E+21	3,815898E+22	2,852921E+21	4,101190E+22
809	1,907938E+22	1,908003E+22	1,426597E+21	1,426278E+21	3,815941E+22	2,852875E+21	4,101228E+22
810	1,907990E+22	1,908050E+22	1,426361E+21	1,426534E+21	3,816040E+22	2,852895E+21	4,101330E+22
811	1,908123E+22	1,908003E+22	1,426294E+21	1,426329E+21	3,816126E+22	2,852622E+21	4,101388E+22
812	1,908067E+22	1,908153E+22	1,426479E+21	1,426185E+21	3,816220E+22	2,852664E+21	4,101486E+22
813	1,908155E+22	1,908139E+22	1,426138E+21	1,426469E+21	3,816294E+22	2,852607E+21	4,101555E+22
814	1,908177E+22	1,908107E+22	1,426283E+21	1,426184E+21	3,816283E+22	2,852466E+21	4,101530E+22
815	1,908085E+22	1,908205E+22	1,426410E+21	1,426291E+21	3,816290E+22	2,852701E+21	4,101560E+22
816	1,908169E+22	1,908101E+22	1,426167E+21	1,426437E+21	3,816270E+22	2,852604E+21	4,101530E+22
817	1,908092E+22	1,908081E+22	1,426495E+21	1,426202E+21	3,816173E+22	2,852697E+21	4,101443E+22
818	1,907996E+22	1,908079E+22	1,426449E+21	1,426513E+21	3,816075E+22	2,852962E+21	4,101371E+22
819	1,908029E+22	1,907923E+22	1,426382E+21	1,426544E+21	3,815952E+22	2,852927E+21	4,101245E+22
820	1,907870E+22	1,907941E+22	1,426715E+21	1,426435E+21	3,815811E+22	2,853150E+21	4,101126E+22
821	1,907858E+22	1,907866E+22	1,426481E+21	1,426806E+21	3,815724E+22	2,853288E+21	4,101053E+22
822	1,907875E+22	1,907745E+22	1,426609E+21	1,426609E+21	3,815621E+22	2,853218E+21	4,100943E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
823	1,907738E+22	1,907834E+22	1,426834E+21	1,426598E+21	3,815572E+22	2,853432E+21	4,100915E+22
824	1,907806E+22	1,907765E+22	1,426550E+21	1,426823E+21	3,815571E+22	2,853374E+21	4,100908E+22
825	1,907767E+22	1,907753E+22	1,426773E+21	1,426538E+21	3,815520E+22	2,853312E+21	4,100851E+22
826	1,907694E+22	1,907833E+22	1,426739E+21	1,426699E+21	3,815527E+22	2,853438E+21	4,100871E+22
827	1,907840E+22	1,907754E+22	1,426498E+21	1,426723E+21	3,815594E+22	2,853222E+21	4,100917E+22
828	1,907813E+22	1,907849E+22	1,426722E+21	1,426403E+21	3,815662E+22	2,853126E+21	4,100975E+22
829	1,907882E+22	1,907910E+22	1,426470E+21	1,426659E+21	3,815792E+22	2,853130E+21	4,101105E+22
830	1,907999E+22	1,907878E+22	1,426395E+21	1,426449E+21	3,815877E+22	2,852843E+21	4,101161E+22
831	1,907911E+22	1,908028E+22	1,426616E+21	1,426323E+21	3,815939E+22	2,852939E+21	4,101233E+22
832	1,908001E+22	1,908013E+22	1,426305E+21	1,426597E+21	3,816014E+22	2,852901E+21	4,101304E+22
833	1,908022E+22	1,907967E+22	1,426457E+21	1,426334E+21	3,815989E+22	2,852791E+21	4,101268E+22
834	1,907918E+22	1,908034E+22	1,426591E+21	1,426437E+21	3,815952E+22	2,853027E+21	4,101255E+22
835	1,908009E+22	1,907921E+22	1,426354E+21	1,426608E+21	3,815930E+22	2,852962E+21	4,101226E+22
836	1,907909E+22	1,907905E+22	1,426662E+21	1,426387E+21	3,815814E+22	2,853049E+21	4,101119E+22
837	1,907820E+22	1,907894E+22	1,426589E+21	1,426726E+21	3,815714E+22	2,853315E+21	4,101045E+22
838	1,907858E+22	1,907735E+22	1,426518E+21	1,426740E+21	3,815592E+22	2,853258E+21	4,100918E+22
839	1,907701E+22	1,907763E+22	1,426879E+21	1,426605E+21	3,815463E+22	2,853484E+21	4,100812E+22
840	1,907706E+22	1,907711E+22	1,426672E+21	1,426931E+21	3,815417E+22	2,853603E+21	4,100777E+22
841	1,907715E+22	1,907604E+22	1,426795E+21	1,426746E+21	3,815319E+22	2,853542E+21	4,100673E+22
842	1,907550E+22	1,907677E+22	1,427006E+21	1,426742E+21	3,815227E+22	2,853748E+21	4,100602E+22
843	1,907628E+22	1,907602E+22	1,426715E+21	1,426995E+21	3,815230E+22	2,853710E+21	4,100601E+22
844	1,907598E+22	1,907590E+22	1,426911E+21	1,426699E+21	3,815188E+22	2,853610E+21	4,100549E+22
845	1,907565E+22	1,907670E+22	1,426851E+21	1,426851E+21	3,815235E+22	2,853703E+21	4,100605E+22
846	1,907730E+22	1,907609E+22	1,426602E+21	1,426843E+21	3,815339E+22	2,853445E+21	4,100684E+22
847	1,907693E+22	1,907723E+22	1,426847E+21	1,426518E+21	3,815416E+22	2,853365E+21	4,100753E+22
848	1,907751E+22	1,907806E+22	1,426619E+21	1,426769E+21	3,815558E+22	2,853388E+21	4,100896E+22
849	1,907851E+22	1,907767E+22	1,426543E+21	1,426597E+21	3,815618E+22	2,853140E+21	4,100932E+22
850	1,907744E+22	1,907875E+22	1,426778E+21	1,426473E+21	3,815618E+22	2,853251E+21	4,100944E+22
851	1,907850E+22	1,907847E+22	1,426478E+21	1,426751E+21	3,815697E+22	2,853230E+21	4,101020E+22
852	1,907867E+22	1,907798E+22	1,426620E+21	1,426482E+21	3,815665E+22	2,853102E+21	4,100975E+22
853	1,907765E+22	1,907857E+22	1,426736E+21	1,426607E+21	3,815623E+22	2,853343E+21	4,100957E+22
854	1,907841E+22	1,907752E+22	1,426483E+21	1,426787E+21	3,815593E+22	2,853270E+21	4,100920E+22
855	1,907726E+22	1,907732E+22	1,426810E+21	1,426576E+21	3,815458E+22	2,853386E+21	4,100797E+22
856	1,907651E+22	1,907731E+22	1,426768E+21	1,426886E+21	3,815382E+22	2,853654E+21	4,100748E+22
857	1,907697E+22	1,907578E+22	1,426702E+21	1,426901E+21	3,815275E+22	2,853603E+21	4,100635E+22
858	1,907529E+22	1,907587E+22	1,427074E+21	1,426750E+21	3,815116E+22	2,853824E+21	4,100498E+22
859	1,907538E+22	1,907543E+22	1,426874E+21	1,427086E+21	3,815081E+22	2,853960E+21	4,100477E+22
860	1,907527E+22	1,907443E+22	1,426965E+21	1,426917E+21	3,814970E+22	2,853882E+21	4,100358E+22
861	1,907377E+22	1,907502E+22	1,427141E+21	1,426934E+21	3,814879E+22	2,854075E+21	4,100287E+22
862	1,907473E+22	1,907429E+22	1,426830E+21	1,427160E+21	3,814902E+22	2,853990E+21	4,100301E+22
863	1,907460E+22	1,907432E+22	1,427034E+21	1,426837E+21	3,814892E+22	2,853871E+21	4,100279E+22
864	1,907450E+22	1,907542E+22	1,427001E+21	1,426948E+21	3,814992E+22	2,853948E+21	4,100387E+22
865	1,907604E+22	1,907502E+22	1,426750E+21	1,426955E+21	3,815106E+22	2,853705E+21	4,100476E+22
866	1,907537E+22	1,907598E+22	1,426995E+21	1,426648E+21	3,815135E+22	2,853644E+21	4,100499E+22
867	1,907598E+22	1,907667E+22	1,426779E+21	1,426918E+21	3,815265E+22	2,853698E+21	4,100635E+22
868	1,907690E+22	1,907619E+22	1,426688E+21	1,426749E+21	3,815309E+22	2,853437E+21	4,100653E+22
869	1,907608E+22	1,907707E+22	1,426903E+21	1,426635E+21	3,815315E+22	2,853538E+21	4,100669E+22
870	1,907714E+22	1,907681E+22	1,426602E+21	1,426894E+21	3,815396E+22	2,853496E+21	4,100745E+22
871	1,907714E+22	1,907641E+22	1,426761E+21	1,426641E+21	3,815356E+22	2,853402E+21	4,100696E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
872	1,907606E+22	1,907712E+22	1,426900E+21	1,426765E+21	3,815317E+22	2,853666E+21	4,100684E+22
873	1,907668E+22	1,907600E+22	1,426654E+21	1,426973E+21	3,815268E+22	2,853627E+21	4,100631E+22
874	1,907544E+22	1,907548E+22	1,426993E+21	1,426753E+21	3,815093E+22	2,853746E+21	4,100467E+22
875	1,907487E+22	1,907548E+22	1,426970E+21	1,427046E+21	3,815035E+22	2,854016E+21	4,100437E+22
876	1,907523E+22	1,907407E+22	1,426895E+21	1,427052E+21	3,814930E+22	2,853947E+21	4,100325E+22
877	1,907358E+22	1,907411E+22	1,427238E+21	1,426924E+21	3,814769E+22	2,854162E+21	4,100185E+22
878	1,907354E+22	1,907375E+22	1,427017E+21	1,427258E+21	3,814729E+22	2,854275E+21	4,100157E+22
879	1,907342E+22	1,907275E+22	1,427108E+21	1,427099E+21	3,814618E+22	2,854207E+21	4,100038E+22
880	1,907222E+22	1,907347E+22	1,427293E+21	1,427079E+21	3,814569E+22	2,854372E+21	4,100006E+22
881	1,907339E+22	1,907289E+22	1,426978E+21	1,427296E+21	3,814628E+22	2,854273E+21	4,100056E+22
882	1,907324E+22	1,907283E+22	1,427187E+21	1,426954E+21	3,814607E+22	2,854141E+21	4,100021E+22
883	1,907320E+22	1,907409E+22	1,427162E+21	1,427073E+21	3,814730E+22	2,854236E+21	4,100153E+22
884	1,907451E+22	1,907379E+22	1,426888E+21	1,427098E+21	3,814829E+22	2,853986E+21	4,100228E+22
885	1,907392E+22	1,907447E+22	1,427111E+21	1,426821E+21	3,814838E+22	2,853932E+21	4,100232E+22
886	1,907459E+22	1,907513E+22	1,426889E+21	1,427061E+21	3,814971E+22	2,853951E+21	4,100367E+22
887	1,907555E+22	1,907465E+22	1,426813E+21	1,426885E+21	3,815020E+22	2,853697E+21	4,100390E+22
888	1,907481E+22	1,907566E+22	1,427058E+21	1,426749E+21	3,815047E+22	2,853807E+21	4,100428E+22
889	1,907565E+22	1,907550E+22	1,426761E+21	1,427032E+21	3,815115E+22	2,853793E+21	4,100495E+22
890	1,907532E+22	1,907482E+22	1,426929E+21	1,426806E+21	3,815014E+22	2,853735E+21	4,100388E+22
891	1,907431E+22	1,907541E+22	1,427087E+21	1,426943E+21	3,814972E+22	2,854029E+21	4,100375E+22
892	1,907487E+22	1,907428E+22	1,426836E+21	1,427149E+21	3,814915E+22	2,853985E+21	4,100314E+22
893	1,907386E+22	1,907359E+22	1,427158E+21	1,426941E+21	3,814745E+22	2,854099E+21	4,100155E+22
894	1,907327E+22	1,907368E+22	1,427132E+21	1,427205E+21	3,814695E+22	2,854338E+21	4,100129E+22
895	1,907345E+22	1,907240E+22	1,427060E+21	1,427232E+21	3,814585E+22	2,854292E+21	4,100014E+22
896	1,907178E+22	1,907253E+22	1,427407E+21	1,427100E+21	3,814432E+22	2,854507E+21	4,099882E+22
897	1,907173E+22	1,907214E+22	1,427181E+21	1,427435E+21	3,814387E+22	2,854616E+21	4,099849E+22
898	1,907169E+22	1,907095E+22	1,427272E+21	1,427261E+21	3,814263E+22	2,854533E+21	4,099716E+22
899	1,907085E+22	1,907177E+22	1,427462E+21	1,427212E+21	3,814262E+22	2,854674E+21	4,099730E+22
900	1,907196E+22	1,907146E+22	1,427137E+21	1,427417E+21	3,814342E+22	2,854555E+21	4,099798E+22
901	1,907191E+22	1,907141E+22	1,427305E+21	1,427102E+21	3,814332E+22	2,854408E+21	4,099773E+22
902	1,907177E+22	1,907275E+22	1,427268E+21	1,427209E+21	3,814451E+22	2,854477E+21	4,099899E+22
903	1,907302E+22	1,907246E+22	1,427001E+21	1,427241E+21	3,814547E+22	2,854242E+21	4,099971E+22
904	1,907263E+22	1,907316E+22	1,427244E+21	1,426941E+21	3,814579E+22	2,854185E+21	4,099997E+22
905	1,907329E+22	1,907384E+22	1,427033E+21	1,427173E+21	3,814713E+22	2,854207E+21	4,100134E+22
906	1,907408E+22	1,907316E+22	1,426976E+21	1,427011E+21	3,814724E+22	2,853988E+21	4,100123E+22
907	1,907332E+22	1,907416E+22	1,427231E+21	1,426899E+21	3,814749E+22	2,854129E+21	4,100162E+22
908	1,907389E+22	1,907400E+22	1,426928E+21	1,427211E+21	3,814788E+22	2,854139E+21	4,100202E+22
909	1,907368E+22	1,907298E+22	1,427070E+21	1,427016E+21	3,814667E+22	2,854086E+21	4,100075E+22
910	1,907274E+22	1,907357E+22	1,427225E+21	1,427117E+21	3,814631E+22	2,854342E+21	4,100065E+22
911	1,907330E+22	1,907254E+22	1,426995E+21	1,427314E+21	3,814584E+22	2,854309E+21	4,100015E+22
912	1,907230E+22	1,907200E+22	1,427341E+21	1,427092E+21	3,814430E+22	2,854433E+21	4,099873E+22
913	1,907147E+22	1,907220E+22	1,427314E+21	1,427363E+21	3,814366E+22	2,854676E+21	4,099834E+22
914	1,907140E+22	1,907063E+22	1,427248E+21	1,427411E+21	3,814203E+22	2,854659E+21	4,099669E+22
915	1,906994E+22	1,907069E+22	1,427593E+21	1,427274E+21	3,814063E+22	2,854867E+21	4,099550E+22
916	1,906999E+22	1,907040E+22	1,427350E+21	1,427594E+21	3,814039E+22	2,854944E+21	4,099533E+22
917	1,907028E+22	1,906913E+22	1,427407E+21	1,427423E+21	3,813942E+22	2,854830E+21	4,099425E+22
918	1,906956E+22	1,907023E+22	1,427585E+21	1,427342E+21	3,813979E+22	2,854927E+21	4,099471E+22
919	1,907055E+22	1,907017E+22	1,427264E+21	1,427560E+21	3,814072E+22	2,854824E+21	4,099555E+22
920	1,907051E+22	1,907022E+22	1,427437E+21	1,427243E+21	3,814073E+22	2,854680E+21	4,099541E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
921	1,907032E+22	1,907151E+22	1,427402E+21	1,427333E+21	3,814183E+22	2,854736E+21	4,099657E+22
922	1,907150E+22	1,907096E+22	1,427151E+21	1,427362E+21	3,814246E+22	2,854512E+21	4,099697E+22
923	1,907131E+22	1,907166E+22	1,427406E+21	1,427056E+21	3,814298E+22	2,854463E+21	4,099744E+22
924	1,907178E+22	1,907245E+22	1,427197E+21	1,427302E+21	3,814423E+22	2,854499E+21	4,099873E+22
925	1,907257E+22	1,907158E+22	1,427106E+21	1,427192E+21	3,814415E+22	2,854298E+21	4,099845E+22
926	1,907175E+22	1,907254E+22	1,427347E+21	1,427078E+21	3,814430E+22	2,854425E+21	4,099872E+22
927	1,907228E+22	1,907236E+22	1,427063E+21	1,427395E+21	3,814464E+22	2,854458E+21	4,099910E+22
928	1,907227E+22	1,907140E+22	1,427221E+21	1,427179E+21	3,814367E+22	2,854400E+21	4,099807E+22
929	1,907126E+22	1,907202E+22	1,427397E+21	1,427249E+21	3,814329E+22	2,854646E+21	4,099793E+22
930	1,907153E+22	1,907087E+22	1,427196E+21	1,427463E+21	3,814240E+22	2,854660E+21	4,099706E+22
931	1,907047E+22	1,907032E+22	1,427546E+21	1,427263E+21	3,814079E+22	2,854809E+21	4,099560E+22
932	1,906937E+22	1,907046E+22	1,427510E+21	1,427552E+21	3,813983E+22	2,855061E+21	4,099489E+22
933	1,906956E+22	1,906859E+22	1,427404E+21	1,427623E+21	3,813815E+22	2,855026E+21	4,099318E+22
934	1,906838E+22	1,906873E+22	1,427722E+21	1,427439E+21	3,813710E+22	2,855161E+21	4,099227E+22
935	1,906855E+22	1,906872E+22	1,427493E+21	1,427739E+21	3,813727E+22	2,855232E+21	4,099250E+22
936	1,906897E+22	1,906779E+22	1,427552E+21	1,427550E+21	3,813676E+22	2,855102E+21	4,099187E+22
937	1,906808E+22	1,906907E+22	1,427724E+21	1,427459E+21	3,813715E+22	2,855183E+21	4,099234E+22
938	1,906885E+22	1,906884E+22	1,427423E+21	1,427694E+21	3,813769E+22	2,855117E+21	4,099281E+22
939	1,906899E+22	1,906882E+22	1,427595E+21	1,427375E+21	3,813781E+22	2,854970E+21	4,099278E+22
940	1,906880E+22	1,907011E+22	1,427557E+21	1,427460E+21	3,813891E+22	2,855017E+21	4,099393E+22
941	1,907020E+22	1,906934E+22	1,427277E+21	1,427512E+21	3,813954E+22	2,854788E+21	4,099433E+22
942	1,907006E+22	1,907013E+22	1,427514E+21	1,427201E+21	3,814019E+22	2,854715E+21	4,099491E+22
943	1,907036E+22	1,907104E+22	1,427316E+21	1,427473E+21	3,814140E+22	2,854788E+21	4,099619E+22
944	1,907115E+22	1,907020E+22	1,427235E+21	1,427367E+21	3,814135E+22	2,854602E+21	4,099595E+22
945	1,907032E+22	1,907109E+22	1,427485E+21	1,427225E+21	3,814142E+22	2,854710E+21	4,099613E+22
946	1,907071E+22	1,907070E+22	1,427243E+21	1,427530E+21	3,814142E+22	2,854773E+21	4,099619E+22
947	1,907072E+22	1,906978E+22	1,427424E+21	1,427311E+21	3,814050E+22	2,854736E+21	4,099524E+22
948	1,906940E+22	1,907046E+22	1,427603E+21	1,427398E+21	3,813987E+22	2,855001E+21	4,099487E+22
949	1,906957E+22	1,906902E+22	1,427371E+21	1,427662E+21	3,813859E+22	2,855033E+21	4,099362E+22
950	1,906853E+22	1,906839E+22	1,427695E+21	1,427463E+21	3,813692E+22	2,855158E+21	4,099208E+22
951	1,906753E+22	1,906855E+22	1,427662E+21	1,427744E+21	3,813609E+22	2,855406E+21	4,099149E+22
952	1,906803E+22	1,90685E+22	1,427555E+21	1,427791E+21	3,813488E+22	2,855346E+21	4,099023E+22
953	1,906698E+22	1,906718E+22	1,427870E+21	1,427567E+21	3,813416E+22	2,855436E+21	4,098960E+22
954	1,906697E+22	1,906723E+22	1,427672E+21	1,427874E+21	3,813420E+22	2,855546E+21	4,098975E+22
955	1,906737E+22	1,906647E+22	1,427725E+21	1,427697E+21	3,813384E+22	2,855422E+21	4,098927E+22
956	1,906633E+22	1,906772E+22	1,427889E+21	1,427613E+21	3,813404E+22	2,855503E+21	4,098954E+22
957	1,906730E+22	1,906717E+22	1,427554E+21	1,427860E+21	3,813447E+22	2,855414E+21	4,098989E+22
958	1,906768E+22	1,906718E+22	1,427701E+21	1,427514E+21	3,813486E+22	2,855214E+21	4,099007E+22
959	1,906753E+22	1,906862E+22	1,427678E+21	1,427592E+21	3,813615E+22	2,855269E+21	4,099142E+22
960	1,906899E+22	1,906808E+22	1,427399E+21	1,427649E+21	3,813707E+22	2,855047E+21	4,099212E+22
961	1,906872E+22	1,906891E+22	1,427630E+21	1,427328E+21	3,813763E+22	2,854958E+21	4,099259E+22
962	1,906878E+22	1,906963E+22	1,427476E+21	1,427615E+21	3,813841E+22	2,855090E+21	4,099350E+22
963	1,906967E+22	1,906876E+22	1,427405E+21	1,427504E+21	3,813843E+22	2,854909E+21	4,099333E+22
964	1,906870E+22	1,906959E+22	1,427672E+21	1,427360E+21	3,813830E+22	2,855032E+21	4,099333E+22
965	1,906911E+22	1,906895E+22	1,427418E+21	1,427690E+21	3,813807E+22	2,855109E+21	4,099317E+22
966	1,906904E+22	1,906804E+22	1,427583E+21	1,427489E+21	3,813708E+22	2,855071E+21	4,099215E+22
967	1,906750E+22	1,906872E+22	1,427766E+21	1,427602E+21	3,813622E+22	2,855369E+21	4,099159E+22
968	1,906775E+22	1,906723E+22	1,427529E+21	1,427873E+21	3,813498E+22	2,855402E+21	4,099038E+22
969	1,906685E+22	1,906655E+22	1,427840E+21	1,427631E+21	3,813340E+22	2,855470E+21	4,098887E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
970	1,906586E+22	1,906669E+22	1,427844E+21	1,427894E+21	3,813256E+22	2,855739E+21	4,098830E+22
971	1,906649E+22	1,906526E+22	1,427747E+21	1,427926E+21	3,813175E+22	2,855673E+21	4,098742E+22
972	1,906527E+22	1,906578E+22	1,428057E+21	1,427713E+21	3,813105E+22	2,855770E+21	4,098682E+22
973	1,906525E+22	1,906564E+22	1,427830E+21	1,428049E+21	3,813088E+22	2,855879E+21	4,098676E+22
974	1,906574E+22	1,906487E+22	1,427850E+21	1,427865E+21	3,813062E+22	2,855715E+21	4,098633E+22
975	1,906482E+22	1,906615E+22	1,428011E+21	1,427766E+21	3,813097E+22	2,855778E+21	4,098675E+22
976	1,906605E+22	1,906572E+22	1,427675E+21	1,427990E+21	3,813178E+22	2,855665E+21	4,098744E+22
977	1,906653E+22	1,906587E+22	1,427816E+21	1,427613E+21	3,813239E+22	2,855429E+21	4,098782E+22
978	1,906617E+22	1,906730E+22	1,427832E+21	1,427713E+21	3,813347E+22	2,855545E+21	4,098902E+22
979	1,906751E+22	1,906687E+22	1,427560E+21	1,427788E+21	3,813438E+22	2,855348E+21	4,098973E+22
980	1,906712E+22	1,906759E+22	1,427790E+21	1,427485E+21	3,813470E+22	2,855275E+21	4,098998E+22
981	1,906727E+22	1,906792E+22	1,427624E+21	1,427776E+21	3,813519E+22	2,855401E+21	4,099059E+22
982	1,906824E+22	1,906707E+22	1,427542E+21	1,427654E+21	3,813531E+22	2,855195E+21	4,099050E+22
983	1,906715E+22	1,906796E+22	1,427829E+21	1,427518E+21	3,813511E+22	2,855348E+21	4,099046E+22
984	1,906745E+22	1,906740E+22	1,427578E+21	1,427864E+21	3,813485E+22	2,855442E+21	4,099029E+22
985	1,906724E+22	1,906642E+22	1,427732E+21	1,427663E+21	3,813367E+22	2,855395E+21	4,098906E+22
986	1,906557E+22	1,906686E+22	1,427951E+21	1,427788E+21	3,813243E+22	2,855739E+21	4,098817E+22
987	1,906598E+22	1,906545E+22	1,427719E+21	1,428042E+21	3,813144E+22	2,855761E+21	4,098720E+22
988	1,906516E+22	1,906482E+22	1,428027E+21	1,427791E+21	3,812998E+22	2,855818E+21	4,098579E+22
989	1,906428E+22	1,906485E+22	1,428020E+21	1,428061E+21	3,812913E+22	2,856081E+21	4,098521E+22
990	1,906489E+22	1,906364E+22	1,427898E+21	1,428100E+21	3,812853E+22	2,855998E+21	4,098452E+22
991	1,906353E+22	1,906424E+22	1,428206E+21	1,427898E+21	3,812778E+22	2,856104E+21	4,098388E+22
992	1,906367E+22	1,906412E+22	1,427972E+21	1,428219E+21	3,812778E+22	2,856190E+21	4,098398E+22
993	1,906434E+22	1,906334E+22	1,427971E+21	1,427984E+21	3,812768E+22	2,855955E+21	4,098364E+22
994	1,906341E+22	1,906460E+22	1,428168E+21	1,427875E+21	3,812801E+22	2,856042E+21	4,098405E+22
995	1,906470E+22	1,906446E+22	1,427836E+21	1,428090E+21	3,812915E+22	2,855926E+21	4,098508E+22
996	1,906501E+22	1,906467E+22	1,427969E+21	1,427743E+21	3,812968E+22	2,855712E+21	4,098539E+22
997	1,906464E+22	1,906583E+22	1,427971E+21	1,427876E+21	3,813047E+22	2,855846E+21	4,098632E+22
998	1,906608E+22	1,906537E+22	1,427680E+21	1,427951E+21	3,813144E+22	2,855631E+21	4,098707E+22
999	1,906571E+22	1,906605E+22	1,427917E+21	1,427644E+21	3,813176E+22	2,855561E+21	4,098732E+22
1000	1,906598E+22	1,906642E+22	1,427761E+21	1,427918E+21	3,813241E+22	2,855679E+21	4,098809E+22
1001	1,906687E+22	1,906559E+22	1,427678E+21	1,427781E+21	3,813247E+22	2,855459E+21	4,098793E+22
1002	1,906546E+22	1,906639E+22	1,428009E+21	1,427683E+21	3,813184E+22	2,855693E+21	4,098753E+22
1003	1,906557E+22	1,906586E+22	1,427769E+21	1,428041E+21	3,813143E+22	2,855810E+21	4,098724E+22
1004	1,906534E+22	1,906468E+22	1,427921E+21	1,427859E+21	3,813002E+22	2,855780E+21	4,098580E+22
1005	1,906384E+22	1,906477E+22	1,428125E+21	1,427977E+21	3,812861E+22	2,856102E+21	4,098471E+22
1006	1,906441E+22	1,906352E+22	1,427882E+21	1,428211E+21	3,812793E+22	2,856093E+21	4,098403E+22
1007	1,906354E+22	1,906310E+22	1,428192E+21	1,427961E+21	3,812664E+22	2,856153E+21	4,098279E+22
1008	1,906263E+22	1,906331E+22	1,428182E+21	1,428229E+21	3,812594E+22	2,856411E+21	4,098235E+22
1009	1,906317E+22	1,906217E+22	1,428044E+21	1,428249E+21	3,812534E+22	2,856293E+21	4,098163E+22
1010	1,906177E+22	1,906263E+22	1,428377E+21	1,428048E+21	3,812440E+22	2,856425E+21	4,098083E+22
1011	1,906202E+22	1,906264E+22	1,428145E+21	1,428337E+21	3,812466E+22	2,856483E+21	4,098114E+22
1012	1,906282E+22	1,906190E+22	1,428134E+21	1,428111E+21	3,812472E+22	2,856245E+21	4,098097E+22
1013	1,906202E+22	1,906297E+22	1,428312E+21	1,428017E+21	3,812499E+22	2,856330E+21	4,098132E+22
1014	1,906331E+22	1,906303E+22	1,427958E+21	1,428252E+21	3,812634E+22	2,856210E+21	4,098255E+22
1015	1,906357E+22	1,906327E+22	1,428081E+21	1,427921E+21	3,812684E+22	2,856002E+21	4,098285E+22
1016	1,906336E+22	1,906439E+22	1,428082E+21	1,428037E+21	3,812775E+22	2,856119E+21	4,098387E+22
1017	1,906488E+22	1,906395E+22	1,427788E+21	1,428062E+21	3,812883E+22	2,855850E+21	4,098468E+22
1018	1,906437E+22	1,906457E+22	1,428077E+21	1,427763E+21	3,812894E+22	2,855840E+21	4,098478E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1019	1,906445E+22	1,906513E+22	1,427946E+21	1,428030E+21	3,812958E+22	2,855977E+21	4,098556E+22
1020	1,906508E+22	1,906421E+22	1,427864E+21	1,427945E+21	3,812929E+22	2,855809E+21	4,098510E+22
1021	1,906359E+22	1,906454E+22	1,428183E+21	1,427879E+21	3,812813E+22	2,856062E+21	4,098419E+22
1022	1,906382E+22	1,906396E+22	1,427926E+21	1,428237E+21	3,812778E+22	2,856163E+21	4,098394E+22
1023	1,906365E+22	1,906278E+22	1,428077E+21	1,428046E+21	3,812643E+22	2,856123E+21	4,098255E+22
1024	1,906237E+22	1,906298E+22	1,428282E+21	1,428144E+21	3,812535E+22	2,856426E+21	4,098178E+22
1025	1,906290E+22	1,906192E+22	1,428038E+21	1,428352E+21	3,812482E+22	2,856390E+21	4,098121E+22
1026	1,906174E+22	1,906153E+22	1,428382E+21	1,428134E+21	3,812327E+22	2,856516E+21	4,097979E+22
1027	1,906072E+22	1,906187E+22	1,428376E+21	1,428387E+21	3,812259E+22	2,856763E+21	4,097935E+22
1028	1,906132E+22	1,906056E+22	1,428225E+21	1,428418E+21	3,812188E+22	2,856643E+21	4,097852E+22
1029	1,906014E+22	1,906072E+22	1,428534E+21	1,428204E+21	3,812086E+22	2,856737E+21	4,097759E+22
1030	1,906059E+22	1,906094E+22	1,428283E+21	1,428476E+21	3,812152E+22	2,856759E+21	4,097828E+22
1031	1,906138E+22	1,906041E+22	1,428260E+21	1,428261E+21	3,812179E+22	2,856521E+21	4,097831E+22
1032	1,906070E+22	1,906161E+22	1,428421E+21	1,428175E+21	3,812231E+22	2,856595E+21	4,097891E+22
1033	1,906201E+22	1,906174E+22	1,428059E+21	1,428381E+21	3,812376E+22	2,856441E+21	4,098020E+22
1034	1,906223E+22	1,906192E+22	1,428216E+21	1,428055E+21	3,812415E+22	2,856271E+21	4,098042E+22
1035	1,906204E+22	1,906317E+22	1,428237E+21	1,428129E+21	3,812521E+22	2,856367E+21	4,098158E+22
1036	1,906348E+22	1,906268E+22	1,427956E+21	1,428177E+21	3,812617E+22	2,856133E+21	4,098230E+22
1037	1,906285E+22	1,906297E+22	1,428245E+21	1,427914E+21	3,812582E+22	2,856159E+21	4,098198E+22
1038	1,906274E+22	1,906356E+22	1,428105E+21	1,428211E+21	3,812629E+22	2,856316E+21	4,098261E+22
1039	1,906327E+22	1,906249E+22	1,428019E+21	1,428156E+21	3,812576E+22	2,856175E+21	4,098193E+22
1040	1,906201E+22	1,906263E+22	1,428324E+21	1,428076E+21	3,812464E+22	2,856400E+21	4,098104E+22
1041	1,906233E+22	1,906213E+22	1,428066E+21	1,428383E+21	3,812446E+22	2,856449E+21	4,098091E+22
1042	1,906207E+22	1,906103E+22	1,428256E+21	1,428199E+21	3,812310E+22	2,856455E+21	4,097956E+22
1043	1,906059E+22	1,906152E+22	1,428481E+21	1,428279E+21	3,812211E+22	2,856760E+21	4,097887E+22
1044	1,906094E+22	1,906046E+22	1,428240E+21	1,428528E+21	3,812140E+22	2,856769E+21	4,097817E+22
1045	1,905977E+22	1,905967E+22	1,428567E+21	1,428329E+21	3,811944E+22	2,856896E+21	4,097633E+22
1046	1,905892E+22	1,906002E+22	1,428538E+21	1,428562E+21	3,811894E+22	2,857100E+21	4,097604E+22
1047	1,905968E+22	1,905877E+22	1,428371E+21	1,428583E+21	3,811844E+22	2,856954E+21	4,097540E+22
1048	1,905882E+22	1,905901E+22	1,428654E+21	1,428353E+21	3,811783E+22	2,857007E+21	4,097484E+22
1049	1,905932E+22	1,905951E+22	1,428394E+21	1,428596E+21	3,811883E+22	2,856990E+21	4,097582E+22
1050	1,905995E+22	1,905913E+22	1,428396E+21	1,428411E+21	3,811907E+22	2,856807E+21	4,097588E+22
1051	1,905926E+22	1,906048E+22	1,428570E+21	1,428298E+21	3,811974E+22	2,856868E+21	4,097660E+22
1052	1,906063E+22	1,906050E+22	1,428216E+21	1,428508E+21	3,812113E+22	2,856724E+21	4,097786E+22
1053	1,906089E+22	1,906036E+22	1,428365E+21	1,428179E+21	3,812125E+22	2,856544E+21	4,097779E+22
1054	1,906067E+22	1,906171E+22	1,428386E+21	1,428249E+21	3,812238E+22	2,856635E+21	4,097902E+22
1055	1,906187E+22	1,906124E+22	1,428106E+21	1,428329E+21	3,812312E+22	2,856435E+21	4,097955E+22
1056	1,906127E+22	1,906141E+22	1,428377E+21	1,428100E+21	3,812268E+22	2,856476E+21	4,097916E+22
1057	1,906116E+22	1,906191E+22	1,428232E+21	1,428373E+21	3,812306E+22	2,856605E+21	4,097967E+22
1058	1,906163E+22	1,906076E+22	1,428177E+21	1,428332E+21	3,812238E+22	2,856510E+21	4,097889E+22
1059	1,906044E+22	1,906106E+22	1,428496E+21	1,428210E+21	3,812150E+22	2,856706E+21	4,097821E+22
1060	1,906073E+22	1,906055E+22	1,428261E+21	1,428534E+21	3,812129E+22	2,856794E+21	4,097808E+22
1061	1,906030E+22	1,905926E+22	1,428447E+21	1,428381E+21	3,811956E+22	2,856828E+21	4,097638E+22
1062	1,905870E+22	1,905981E+22	1,428661E+21	1,428473E+21	3,811851E+22	2,857134E+21	4,097565E+22
1063	1,905896E+22	1,905864E+22	1,428417E+21	1,428734E+21	3,811761E+22	2,857150E+21	4,097476E+22
1064	1,905812E+22	1,905773E+22	1,428711E+21	1,428518E+21	3,811585E+22	2,857229E+21	4,097308E+22
1065	1,905744E+22	1,905822E+22	1,428668E+21	1,428687E+21	3,811566E+22	2,857355E+21	4,097301E+22
1066	1,905818E+22	1,905717E+22	1,428526E+21	1,428719E+21	3,811535E+22	2,857245E+21	4,097260E+22
1067	1,905730E+22	1,905777E+22	1,428809E+21	1,428466E+21	3,811507E+22	2,857275E+21	4,097234E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1068	1,905777E+22	1,905831E+22	1,428558E+21	1,428741E+21	3,811608E+22	2,857299E+21	4,097338E+22
1069	1,905841E+22	1,905765E+22	1,428545E+21	1,428565E+21	3,811606E+22	2,857110E+21	4,097317E+22
1070	1,905786E+22	1,905904E+22	1,428708E+21	1,428429E+21	3,811690E+22	2,857138E+21	4,097404E+22
1071	1,905924E+22	1,905908E+22	1,428356E+21	1,428635E+21	3,811832E+22	2,856992E+21	4,097531E+22
1072	1,905966E+22	1,905885E+22	1,428486E+21	1,428321E+21	3,811851E+22	2,856807E+21	4,097532E+22
1073	1,905929E+22	1,906030E+22	1,428503E+21	1,428381E+21	3,811959E+22	2,856884E+21	4,097647E+22
1074	1,906025E+22	1,905981E+22	1,428249E+21	1,428511E+21	3,812006E+22	2,856759E+21	4,097682E+22
1075	1,905963E+22	1,905993E+22	1,428529E+21	1,428258E+21	3,811957E+22	2,856786E+21	4,097636E+22
1076	1,905962E+22	1,906029E+22	1,428404E+21	1,428532E+21	3,811992E+22	2,856936E+21	4,097685E+22
1077	1,906008E+22	1,905890E+22	1,428350E+21	1,428487E+21	3,811898E+22	2,856837E+21	4,097582E+22
1078	1,905884E+22	1,905936E+22	1,428672E+21	1,428362E+21	3,811821E+22	2,857034E+21	4,097524E+22
1079	1,905887E+22	1,905893E+22	1,428448E+21	1,428711E+21	3,811780E+22	2,857159E+21	4,097496E+22
1080	1,905848E+22	1,905749E+22	1,428608E+21	1,428589E+21	3,811596E+22	2,857197E+21	4,097316E+22
1081	1,905690E+22	1,905802E+22	1,428811E+21	1,428640E+21	3,811492E+22	2,857451E+21	4,097237E+22
1082	1,905718E+22	1,905685E+22	1,428587E+21	1,428905E+21	3,811403E+22	2,857491E+21	4,097152E+22
1083	1,905649E+22	1,905613E+22	1,428881E+21	1,428643E+21	3,811262E+22	2,857524E+21	4,097014E+22
1084	1,905592E+22	1,905670E+22	1,428849E+21	1,428824E+21	3,811262E+22	2,857673E+21	4,097029E+22
1085	1,905654E+22	1,905560E+22	1,428693E+21	1,428882E+21	3,811214E+22	2,857575E+21	4,096971E+22
1086	1,905572E+22	1,905633E+22	1,428954E+21	1,428636E+21	3,811205E+22	2,857590E+21	4,096964E+22
1087	1,905621E+22	1,905682E+22	1,428708E+21	1,428906E+21	3,811303E+22	2,857613E+21	4,097064E+22
1088	1,905716E+22	1,905609E+22	1,428657E+21	1,428715E+21	3,811325E+22	2,857372E+21	4,097062E+22
1089	1,905670E+22	1,905759E+22	1,428811E+21	1,428525E+21	3,811429E+22	2,857336E+21	4,097163E+22
1090	1,905785E+22	1,905775E+22	1,428494E+21	1,428754E+21	3,811560E+22	2,857247E+21	4,097285E+22
1091	1,905814E+22	1,905770E+22	1,428629E+21	1,428441E+21	3,811584E+22	2,857070E+21	4,097291E+22
1092	1,905772E+22	1,905897E+22	1,428666E+21	1,428538E+21	3,811669E+22	2,857203E+21	4,097389E+22
1093	1,905860E+22	1,905814E+22	1,428410E+21	1,428683E+21	3,811674E+22	2,857092E+21	4,097383E+22
1094	1,905815E+22	1,905826E+22	1,428678E+21	1,428413E+21	3,811640E+22	2,857091E+21	4,097349E+22
1095	1,905808E+22	1,905860E+22	1,428574E+21	1,428683E+21	3,811668E+22	2,857257E+21	4,097394E+22
1096	1,905861E+22	1,905719E+22	1,428503E+21	1,428661E+21	3,811580E+22	2,857164E+21	4,097297E+22
1097	1,905719E+22	1,905774E+22	1,428823E+21	1,428526E+21	3,811493E+22	2,857349E+21	4,097228E+22
1098	1,905693E+22	1,905729E+22	1,428633E+21	1,428911E+21	3,811422E+22	2,857544E+21	4,097176E+22
1099	1,905658E+22	1,905583E+22	1,428795E+21	1,428763E+21	3,811240E+22	2,857558E+21	4,096996E+22
1100	1,905517E+22	1,905622E+22	1,429003E+21	1,428805E+21	3,811139E+22	2,857807E+21	4,096920E+22
1101	1,905543E+22	1,905493E+22	1,428771E+21	1,429063E+21	3,811036E+22	2,857833E+21	4,096819E+22
1102	1,905483E+22	1,905442E+22	1,429045E+21	1,428796E+21	3,810925E+22	2,857841E+21	4,096709E+22
1103	1,905418E+22	1,905514E+22	1,429017E+21	1,428994E+21	3,810932E+22	2,858011E+21	4,096733E+22
1104	1,905502E+22	1,905401E+22	1,428821E+21	1,429069E+21	3,810903E+22	2,857890E+21	4,096692E+22
1105	1,905433E+22	1,905483E+22	1,429063E+21	1,428773E+21	3,810916E+22	2,857836E+21	4,096700E+22
1106	1,905485E+22	1,905544E+22	1,428839E+21	1,429034E+21	3,811029E+22	2,857873E+21	4,096816E+22
1107	1,905588E+22	1,905487E+22	1,428792E+21	1,428805E+21	3,811075E+22	2,857596E+21	4,096834E+22
1108	1,905541E+22	1,905636E+22	1,428965E+21	1,428637E+21	3,811177E+22	2,857602E+21	4,096937E+22
1109	1,905625E+22	1,905637E+22	1,428648E+21	1,428902E+21	3,811262E+22	2,857549E+21	4,097017E+22
1110	1,905655E+22	1,905625E+22	1,428773E+21	1,428610E+21	3,811280E+22	2,857383E+21	4,097018E+22
1111	1,905615E+22	1,905734E+22	1,428825E+21	1,428709E+21	3,811349E+22	2,857534E+21	4,097103E+22
1112	1,905728E+22	1,905637E+22	1,428539E+21	1,428851E+21	3,811366E+22	2,857390E+21	4,097105E+22
1113	1,905685E+22	1,905661E+22	1,428803E+21	1,428542E+21	3,811346E+22	2,857345E+21	4,097081E+22
1114	1,905648E+22	1,905711E+22	1,428740E+21	1,428836E+21	3,811359E+22	2,857576E+21	4,097117E+22
1115	1,905681E+22	1,905583E+22	1,428680E+21	1,428819E+21	3,811264E+22	2,857500E+21	4,097014E+22
1116	1,905533E+22	1,905616E+22	1,429022E+21	1,428712E+21	3,811149E+22	2,857734E+21	4,096922E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1117	1,905492E+22	1,905540E+22	1,428832E+21	1,429097E+21	3,811032E+22	2,857929E+21	4,096825E+22
1118	1,905479E+22	1,905393E+22	1,428976E+21	1,428938E+21	3,810871E+22	2,857914E+21	4,096663E+22
1119	1,905345E+22	1,905429E+22	1,429189E+21	1,428970E+21	3,810774E+22	2,858159E+21	4,096590E+22
1120	1,905388E+22	1,905309E+22	1,428919E+21	1,429247E+21	3,810696E+22	2,858166E+21	4,096513E+22
1121	1,905329E+22	1,905282E+22	1,429162E+21	1,428963E+21	3,810611E+22	2,858126E+21	4,096423E+22
1122	1,905254E+22	1,905364E+22	1,429163E+21	1,429172E+21	3,810618E+22	2,858335E+21	4,096452E+22
1123	1,905353E+22	1,905268E+22	1,428967E+21	1,429198E+21	3,810621E+22	2,858164E+21	4,096438E+22
1124	1,905306E+22	1,905345E+22	1,429217E+21	1,428882E+21	3,810651E+22	2,858099E+21	4,096461E+22
1125	1,905338E+22	1,905399E+22	1,429002E+21	1,429133E+21	3,810737E+22	2,858135E+21	4,096551E+22
1126	1,905438E+22	1,905355E+22	1,428940E+21	1,428923E+21	3,810793E+22	2,857863E+21	4,096580E+22
1127	1,905377E+22	1,905496E+22	1,429121E+21	1,428792E+21	3,810872E+22	2,857912E+21	4,096664E+22
1128	1,905477E+22	1,905479E+22	1,428770E+21	1,429086E+21	3,810956E+22	2,857856E+21	4,096742E+22
1129	1,905521E+22	1,905466E+22	1,428873E+21	1,428763E+21	3,810988E+22	2,857636E+21	4,096752E+22
1130	1,905481E+22	1,905581E+22	1,428959E+21	1,428859E+21	3,811062E+22	2,857818E+21	4,096844E+22
1131	1,905594E+22	1,905502E+22	1,428692E+21	1,428972E+21	3,811095E+22	2,857664E+21	4,096862E+22
1132	1,905540E+22	1,905521E+22	1,428980E+21	1,428693E+21	3,811061E+22	2,857672E+21	4,096828E+22
1133	1,905459E+22	1,905552E+22	1,428933E+21	1,429015E+21	3,811011E+22	2,857948E+21	4,096806E+22
1134	1,905488E+22	1,905410E+22	1,428870E+21	1,429018E+21	3,810898E+22	2,857889E+21	4,096686E+22
1135	1,905344E+22	1,905420E+22	1,429220E+21	1,428909E+21	3,810763E+22	2,858128E+21	4,096576E+22
1136	1,905328E+22	1,905331E+22	1,428989E+21	1,429283E+21	3,810659E+22	2,858272E+21	4,096486E+22
1137	1,905321E+22	1,905201E+22	1,429112E+21	1,429090E+21	3,810522E+22	2,858202E+21	4,096343E+22
1138	1,905175E+22	1,905263E+22	1,429345E+21	1,429139E+21	3,810438E+22	2,858484E+21	4,096287E+22
1139	1,905216E+22	1,905169E+22	1,429080E+21	1,429401E+21	3,810385E+22	2,858482E+21	4,096233E+22
1140	1,905171E+22	1,905138E+22	1,429330E+21	1,429120E+21	3,810310E+22	2,858450E+21	4,096155E+22
1141	1,905088E+22	1,905210E+22	1,429335E+21	1,429306E+21	3,810298E+22	2,858641E+21	4,096162E+22
1142	1,905205E+22	1,905122E+22	1,429126E+21	1,429315E+21	3,810327E+22	2,858441E+21	4,096171E+22
1143	1,905159E+22	1,905196E+22	1,429382E+21	1,429006E+21	3,810355E+22	2,858388E+21	4,096194E+22
1144	1,905196E+22	1,905248E+22	1,429126E+21	1,429285E+21	3,810444E+22	2,858412E+21	4,096286E+22
1145	1,905294E+22	1,905213E+22	1,429038E+21	1,429085E+21	3,810507E+22	2,858123E+21	4,096320E+22
1146	1,905231E+22	1,905349E+22	1,429240E+21	1,428973E+21	3,810580E+22	2,858213E+21	4,096401E+22
1147	1,905348E+22	1,905342E+22	1,428898E+21	1,429225E+21	3,810689E+22	2,858123E+21	4,096502E+22
1148	1,905409E+22	1,905325E+22	1,429013E+21	1,428886E+21	3,810733E+22	2,857899E+21	4,096523E+22
1149	1,905334E+22	1,905434E+22	1,429127E+21	1,428976E+21	3,810767E+22	2,858103E+21	4,096578E+22
1150	1,905431E+22	1,905363E+22	1,428868E+21	1,429113E+21	3,810794E+22	2,857981E+21	4,096592E+22
1151	1,905354E+22	1,905361E+22	1,429176E+21	1,428877E+21	3,810716E+22	2,858053E+21	4,096521E+22
1152	1,905275E+22	1,905366E+22	1,429099E+21	1,429217E+21	3,810641E+22	2,858315E+21	4,096473E+22
1153	1,905318E+22	1,905219E+22	1,429010E+21	1,429200E+21	3,810536E+22	2,858210E+21	4,096357E+22
1154	1,905176E+22	1,905227E+22	1,429378E+21	1,429085E+21	3,810403E+22	2,858463E+21	4,096249E+22
1155	1,905167E+22	1,905163E+22	1,429158E+21	1,429426E+21	3,810330E+22	2,858584E+21	4,096188E+22
1156	1,905162E+22	1,905044E+22	1,429285E+21	1,429250E+21	3,810206E+22	2,858535E+21	4,096059E+22
1157	1,904984E+22	1,905103E+22	1,429530E+21	1,429313E+21	3,810087E+22	2,858843E+21	4,095971E+22
1158	1,905038E+22	1,905011E+22	1,429266E+21	1,429574E+21	3,810048E+22	2,858840E+21	4,095932E+22
1159	1,905005E+22	1,904970E+22	1,429512E+21	1,429283E+21	3,809975E+22	2,858795E+21	4,095854E+22
1160	1,904943E+22	1,905037E+22	1,429473E+21	1,429448E+21	3,809981E+22	2,858921E+21	4,095873E+22
1161	1,905065E+22	1,904968E+22	1,429236E+21	1,429440E+21	3,810033E+22	2,858676E+21	4,095901E+22
1162	1,905008E+22	1,905055E+22	1,429502E+21	1,429161E+21	3,810062E+22	2,858663E+21	4,095929E+22
1163	1,905048E+22	1,905122E+22	1,429251E+21	1,429429E+21	3,810170E+22	2,858680E+21	4,096038E+22
1164	1,905164E+22	1,905080E+22	1,429166E+21	1,429231E+21	3,810244E+22	2,858397E+21	4,096084E+22
1165	1,905094E+22	1,905205E+22	1,429382E+21	1,429103E+21	3,810298E+22	2,858484E+21	4,096147E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1166	1,905221E+22	1,905202E+22	1,429056E+21	1,429336E+21	3,810423E+22	2,858392E+21	4,096263E+22
1167	1,905270E+22	1,905182E+22	1,429188E+21	1,429020E+21	3,810451E+22	2,858208E+21	4,096272E+22
1168	1,905181E+22	1,905280E+22	1,429273E+21	1,429137E+21	3,810461E+22	2,858410E+21	4,096302E+22
1169	1,905259E+22	1,905203E+22	1,429003E+21	1,429295E+21	3,810462E+22	2,858298E+21	4,096292E+22
1170	1,905175E+22	1,905185E+22	1,429335E+21	1,429083E+21	3,810360E+22	2,858418E+21	4,096202E+22
1171	1,905110E+22	1,905190E+22	1,429264E+21	1,429376E+21	3,810300E+22	2,858640E+21	4,096164E+22
1172	1,905165E+22	1,905042E+22	1,429182E+21	1,429348E+21	3,810206E+22	2,858530E+21	4,096059E+22
1173	1,904996E+22	1,905050E+22	1,429562E+21	1,429233E+21	3,810046E+22	2,858795E+21	4,095926E+22
1174	1,904981E+22	1,905001E+22	1,429351E+21	1,429591E+21	3,809982E+22	2,858942E+21	4,095876E+22
1175	1,904970E+22	1,904877E+22	1,429483E+21	1,429446E+21	3,809847E+22	2,858929E+21	4,095740E+22
1176	1,904810E+22	1,904921E+22	1,429686E+21	1,429502E+21	3,809731E+22	2,859187E+21	4,095650E+22
1177	1,904882E+22	1,904839E+22	1,429398E+21	1,429733E+21	3,809721E+22	2,859131E+21	4,095634E+22
1178	1,904858E+22	1,904806E+22	1,429650E+21	1,429436E+21	3,809663E+22	2,859086E+21	4,095572E+22
1179	1,904803E+22	1,904898E+22	1,429611E+21	1,429566E+21	3,809701E+22	2,859177E+21	4,095619E+22
1180	1,904927E+22	1,904839E+22	1,429367E+21	1,429577E+21	3,809765E+22	2,858944E+21	4,095660E+22
1181	1,904846E+22	1,904915E+22	1,429643E+21	1,429311E+21	3,809761E+22	2,858955E+21	4,095657E+22
1182	1,904906E+22	1,904983E+22	1,429407E+21	1,429570E+21	3,809889E+22	2,858976E+21	4,095787E+22
1183	1,905034E+22	1,904933E+22	1,429325E+21	1,429366E+21	3,809967E+22	2,858691E+21	4,095836E+22
1184	1,904971E+22	1,905049E+22	1,429510E+21	1,429224E+21	3,810020E+22	2,858734E+21	4,095894E+22
1185	1,905087E+22	1,905063E+22	1,429177E+21	1,429458E+21	3,810149E+22	2,858635E+21	4,096013E+22
1186	1,905108E+22	1,905040E+22	1,429327E+21	1,429189E+21	3,810147E+22	2,858516E+21	4,095999E+22
1187	1,905010E+22	1,905136E+22	1,429427E+21	1,429299E+21	3,810147E+22	2,858726E+21	4,096019E+22
1188	1,905095E+22	1,905044E+22	1,429165E+21	1,429460E+21	3,810139E+22	2,858625E+21	4,096002E+22
1189	1,904997E+22	1,905005E+22	1,429511E+21	1,429244E+21	3,810002E+22	2,858755E+21	4,095878E+22
1190	1,904943E+22	1,905012E+22	1,429458E+21	1,429523E+21	3,809955E+22	2,858982E+21	4,095853E+22
1191	1,904990E+22	1,904864E+22	1,429383E+21	1,429527E+21	3,809854E+22	2,858910E+21	4,095745E+22
1192	1,904818E+22	1,904867E+22	1,429717E+21	1,429435E+21	3,809685E+22	2,859152E+21	4,095600E+22
1193	1,904801E+22	1,904824E+22	1,429500E+21	1,429798E+21	3,809626E+22	2,859298E+21	4,095556E+22
1194	1,904797E+22	1,904698E+22	1,429639E+21	1,429655E+21	3,809495E+22	2,859294E+21	4,095424E+22
1195	1,904659E+22	1,904756E+22	1,429838E+21	1,429643E+21	3,809416E+22	2,859481E+21	4,095364E+22
1196	1,904743E+22	1,904686E+22	1,429553E+21	1,429845E+21	3,809429E+22	2,859398E+21	4,095369E+22
1197	1,904692E+22	1,904659E+22	1,429811E+21	1,429555E+21	3,809351E+22	2,859367E+21	4,095288E+22
1198	1,904638E+22	1,904760E+22	1,429782E+21	1,429694E+21	3,809398E+22	2,859475E+21	4,095346E+22
1199	1,904761E+22	1,904697E+22	1,429537E+21	1,429740E+21	3,809458E+22	2,859278E+21	4,095386E+22
1200	1,904706E+22	1,904758E+22	1,429759E+21	1,429467E+21	3,809464E+22	2,859226E+21	4,095387E+22
1201	1,904784E+22	1,904833E+22	1,429516E+21	1,429702E+21	3,809617E+22	2,859218E+21	4,095539E+22
1202	1,904911E+22	1,904793E+22	1,429446E+21	1,429502E+21	3,809704E+22	2,858948E+21	4,095599E+22
1203	1,904845E+22	1,904924E+22	1,429640E+21	1,429340E+21	3,809769E+22	2,858980E+21	4,095667E+22
1204	1,904941E+22	1,904939E+22	1,429318E+21	1,429595E+21	3,809880E+22	2,858913E+21	4,095771E+22
1205	1,904927E+22	1,904892E+22	1,429492E+21	1,429362E+21	3,809819E+22	2,858854E+21	4,095704E+22
1206	1,904840E+22	1,904970E+22	1,429614E+21	1,429463E+21	3,809810E+22	2,859077E+21	4,095718E+22
1207	1,904929E+22	1,904865E+22	1,429358E+21	1,429634E+21	3,809795E+22	2,858992E+21	4,095694E+22
1208	1,904839E+22	1,904811E+22	1,429660E+21	1,429411E+21	3,809649E+22	2,859072E+21	4,095556E+22
1209	1,904779E+22	1,904832E+22	1,429607E+21	1,429697E+21	3,809610E+22	2,859305E+21	4,095541E+22
1210	1,904808E+22	1,904692E+22	1,429541E+21	1,429736E+21	3,809500E+22	2,859277E+21	4,095427E+22
1211	1,904643E+22	1,904702E+22	1,429879E+21	1,429619E+21	3,809346E+22	2,859498E+21	4,095296E+22
1212	1,904640E+22	1,904662E+22	1,429670E+21	1,429955E+21	3,809302E+22	2,859625E+21	4,095264E+22
1213	1,904622E+22	1,904531E+22	1,429823E+21	1,429797E+21	3,809152E+22	2,859620E+21	4,095114E+22
1214	1,904496E+22	1,904598E+22	1,430035E+21	1,429759E+21	3,809095E+22	2,859795E+21	4,095074E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1215	1,904572E+22	1,904534E+22	1,429744E+21	1,429993E+21	3,809106E+22	2,859736E+21	4,095080E+22
1216	1,904519E+22	1,904495E+22	1,429944E+21	1,429728E+21	3,809014E+22	2,859672E+21	4,094982E+22
1217	1,904481E+22	1,904600E+22	1,429904E+21	1,429874E+21	3,809081E+22	2,859778E+21	4,095059E+22
1218	1,904621E+22	1,904539E+22	1,429658E+21	1,429916E+21	3,809161E+22	2,859573E+21	4,095118E+22
1219	1,904595E+22	1,904617E+22	1,429870E+21	1,429587E+21	3,809212E+22	2,859457E+21	4,095158E+22
1220	1,904675E+22	1,904709E+22	1,429641E+21	1,429794E+21	3,809383E+22	2,859435E+21	4,095327E+22
1221	1,904760E+22	1,904671E+22	1,429592E+21	1,429618E+21	3,809430E+22	2,859209E+21	4,095351E+22
1222	1,904682E+22	1,904798E+22	1,429812E+21	1,429473E+21	3,809480E+22	2,859285E+21	4,095409E+22
1223	1,904766E+22	1,904792E+22	1,429503E+21	1,429766E+21	3,809558E+22	2,859269E+21	4,095485E+22
1224	1,904764E+22	1,904713E+22	1,429635E+21	1,429542E+21	3,809477E+22	2,859177E+21	4,095394E+22
1225	1,904692E+22	1,904786E+22	1,429756E+21	1,429633E+21	3,809478E+22	2,859389E+21	4,095417E+22
1226	1,904776E+22	1,904687E+22	1,429510E+21	1,429815E+21	3,809463E+22	2,859325E+21	4,095396E+22
1227	1,904688E+22	1,904648E+22	1,429805E+21	1,429580E+21	3,809336E+22	2,859384E+21	4,095274E+22
1228	1,904612E+22	1,904677E+22	1,429769E+21	1,429867E+21	3,809289E+22	2,859636E+21	4,095253E+22
1229	1,904614E+22	1,904528E+22	1,429732E+21	1,429923E+21	3,809142E+22	2,859655E+21	4,095108E+22
1230	1,904466E+22	1,904531E+22	1,430092E+21	1,429774E+21	3,808997E+22	2,859867E+21	4,094983E+22
1231	1,904462E+22	1,904489E+22	1,429889E+21	1,430105E+21	3,808952E+22	2,859994E+21	4,094951E+22
1232	1,904448E+22	1,904348E+22	1,429984E+21	1,429950E+21	3,808797E+22	2,859934E+21	4,094790E+22
1233	1,904323E+22	1,904424E+22	1,430180E+21	1,429926E+21	3,808748E+22	2,860105E+21	4,094758E+22
1234	1,904394E+22	1,904370E+22	1,429880E+21	1,430186E+21	3,808764E+22	2,860066E+21	4,094771E+22
1235	1,904373E+22	1,904342E+22	1,430057E+21	1,429894E+21	3,808715E+22	2,859951E+21	4,094710E+22
1236	1,904360E+22	1,904458E+22	1,430022E+21	1,430000E+21	3,808818E+22	2,860022E+21	4,094821E+22
1237	1,904491E+22	1,904407E+22	1,429797E+21	1,430027E+21	3,808898E+22	2,859825E+21	4,094881E+22
1238	1,904473E+22	1,904494E+22	1,430031E+21	1,429679E+21	3,808967E+22	2,859711E+21	4,094938E+22
1239	1,904529E+22	1,904590E+22	1,429814E+21	1,429921E+21	3,809120E+22	2,859735E+21	4,095093E+22
1240	1,904597E+22	1,904526E+22	1,429722E+21	1,429785E+21	3,809122E+22	2,859507E+21	4,095073E+22
1241	1,904526E+22	1,904633E+22	1,429948E+21	1,429660E+21	3,809158E+22	2,859609E+21	4,095119E+22
1242	1,904612E+22	1,904619E+22	1,429645E+21	1,429950E+21	3,809230E+22	2,859595E+21	4,095190E+22
1243	1,904632E+22	1,904544E+22	1,429766E+21	1,429692E+21	3,809176E+22	2,859457E+21	4,095121E+22
1244	1,904557E+22	1,904628E+22	1,429904E+21	1,429761E+21	3,809185E+22	2,859665E+21	4,095152E+22
1245	1,904598E+22	1,904533E+22	1,429689E+21	1,429972E+21	3,809131E+22	2,859661E+21	4,095097E+22
1246	1,904501E+22	1,904495E+22	1,430009E+21	1,429746E+21	3,808996E+22	2,859755E+21	4,094971E+22
1247	1,904419E+22	1,904512E+22	1,429986E+21	1,430053E+21	3,808931E+22	2,860040E+21	4,094935E+22
1248	1,904425E+22	1,904336E+22	1,429909E+21	1,430109E+21	3,808761E+22	2,860018E+21	4,094763E+22
1249	1,904296E+22	1,904337E+22	1,430262E+21	1,429952E+21	3,808633E+22	2,860214E+21	4,094654E+22
1250	1,904287E+22	1,904305E+22	1,430053E+21	1,430281E+21	3,808593E+22	2,860334E+21	4,094626E+22
1251	1,904286E+22	1,904181E+22	1,430117E+21	1,430125E+21	3,808466E+22	2,860241E+21	4,094491E+22
1252	1,904166E+22	1,904267E+22	1,430308E+21	1,430091E+21	3,808434E+22	2,860399E+21	4,094473E+22
1253	1,904229E+22	1,904216E+22	1,430031E+21	1,430352E+21	3,808445E+22	2,860383E+21	4,094483E+22
1254	1,904241E+22	1,904199E+22	1,430216E+21	1,430014E+21	3,808440E+22	2,860231E+21	4,094463E+22
1255	1,904234E+22	1,904326E+22	1,430193E+21	1,430108E+21	3,808560E+22	2,860300E+21	4,094590E+22
1256	1,904354E+22	1,904270E+22	1,429931E+21	1,430138E+21	3,808624E+22	2,860069E+21	4,094631E+22
1257	1,904328E+22	1,904358E+22	1,430163E+21	1,429823E+21	3,808686E+22	2,859987E+21	4,094685E+22
1258	1,904363E+22	1,904449E+22	1,429951E+21	1,430089E+21	3,808813E+22	2,860039E+21	4,094816E+22
1259	1,904453E+22	1,904376E+22	1,429839E+21	1,429951E+21	3,808829E+22	2,859791E+21	4,094808E+22
1260	1,904396E+22	1,904477E+22	1,430075E+21	1,429796E+21	3,808873E+22	2,859872E+21	4,094860E+22
1261	1,904465E+22	1,904465E+22	1,429807E+21	1,430087E+21	3,808930E+22	2,859894E+21	4,094919E+22
1262	1,904488E+22	1,904395E+22	1,429946E+21	1,429819E+21	3,808883E+22	2,859766E+21	4,094860E+22
1263	1,904386E+22	1,904481E+22	1,430099E+21	1,429928E+21	3,808866E+22	2,860027E+21	4,094869E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1264	1,904406E+22	1,904362E+22	1,429857E+21	1,430172E+21	3,808768E+22	2,860029E+21	4,094771E+22
1265	1,904321E+22	1,904302E+22	1,430183E+21	1,429963E+21	3,808623E+22	2,860147E+21	4,094638E+22
1266	1,904239E+22	1,904318E+22	1,430163E+21	1,430246E+21	3,808557E+22	2,860409E+21	4,094598E+22
1267	1,904269E+22	1,904150E+22	1,430061E+21	1,430275E+21	3,808419E+22	2,860335E+21	4,094453E+22
1268	1,904138E+22	1,904163E+22	1,430411E+21	1,430092E+21	3,808301E+22	2,860504E+21	4,094351E+22
1269	1,904097E+22	1,904144E+22	1,430222E+21	1,430442E+21	3,808242E+22	2,860664E+21	4,094308E+22
1270	1,904108E+22	1,904028E+22	1,430294E+21	1,430280E+21	3,808136E+22	2,860573E+21	4,094193E+22
1271	1,904004E+22	1,904117E+22	1,430486E+21	1,430249E+21	3,808121E+22	2,860735E+21	4,094195E+22
1272	1,904081E+22	1,904056E+22	1,430176E+21	1,430495E+21	3,808138E+22	2,860671E+21	4,094205E+22
1273	1,904116E+22	1,904046E+22	1,430356E+21	1,430151E+21	3,808162E+22	2,860507E+21	4,094213E+22
1274	1,904096E+22	1,904188E+22	1,430331E+21	1,430237E+21	3,808284E+22	2,860568E+21	4,094341E+22
1275	1,904216E+22	1,904141E+22	1,430041E+21	1,430283E+21	3,808357E+22	2,860323E+21	4,094389E+22
1276	1,904186E+22	1,904222E+22	1,430278E+21	1,429971E+21	3,808408E+22	2,860249E+21	4,094433E+22
1277	1,904204E+22	1,904301E+22	1,430099E+21	1,430242E+21	3,808506E+22	2,860341E+21	4,094540E+22
1278	1,904314E+22	1,904228E+22	1,430004E+21	1,430078E+21	3,808542E+22	2,860082E+21	4,094551E+22
1279	1,904259E+22	1,904329E+22	1,430246E+21	1,429930E+21	3,808588E+22	2,860176E+21	4,094606E+22
1280	1,904305E+22	1,904302E+22	1,429960E+21	1,430236E+21	3,808607E+22	2,860196E+21	4,094626E+22
1281	1,904321E+22	1,904230E+22	1,430101E+21	1,430009E+21	3,808551E+22	2,860110E+21	4,094562E+22
1282	1,904201E+22	1,904310E+22	1,430262E+21	1,430123E+21	3,808510E+22	2,860385E+21	4,094549E+22
1283	1,904240E+22	1,904184E+22	1,430006E+21	1,430362E+21	3,808425E+22	2,860368E+21	4,094461E+22
1284	1,904166E+22	1,904124E+22	1,430340E+21	1,430122E+21	3,808290E+22	2,860461E+21	4,094336E+22
1285	1,904062E+22	1,904144E+22	1,430351E+21	1,430394E+21	3,808206E+22	2,860745E+21	4,094281E+22
1286	1,904096E+22	1,903988E+22	1,430260E+21	1,430418E+21	3,808084E+22	2,860678E+21	4,094152E+22
1287	1,903953E+22	1,904004E+22	1,430601E+21	1,430268E+21	3,807957E+22	2,860869E+21	4,094044E+22
1288	1,903906E+22	1,903966E+22	1,430388E+21	1,430631E+21	3,807872E+22	2,861019E+21	4,093974E+22
1289	1,903950E+22	1,903847E+22	1,430450E+21	1,430469E+21	3,807797E+22	2,860919E+21	4,093888E+22
1290	1,903858E+22	1,903951E+22	1,430633E+21	1,430399E+21	3,807809E+22	2,861032E+21	4,093912E+22
1291	1,903960E+22	1,903910E+22	1,430299E+21	1,430622E+21	3,807871E+22	2,860921E+21	4,093963E+22
1292	1,903987E+22	1,903916E+22	1,430473E+21	1,430260E+21	3,807903E+22	2,860733E+21	4,093977E+22
1293	1,903931E+22	1,904066E+22	1,430474E+21	1,430366E+21	3,807997E+22	2,860840E+21	4,094081E+22
1294	1,904059E+22	1,904015E+22	1,430196E+21	1,430412E+21	3,808074E+22	2,860607E+21	4,094135E+22
1295	1,904037E+22	1,904082E+22	1,430434E+21	1,430118E+21	3,808120E+22	2,860552E+21	4,094175E+22
1296	1,904059E+22	1,904140E+22	1,430240E+21	1,430381E+21	3,808199E+22	2,860621E+21	4,094261E+22
1297	1,904186E+22	1,904064E+22	1,430148E+21	1,430232E+21	3,808251E+22	2,860379E+21	4,094289E+22
1298	1,904112E+22	1,904175E+22	1,430387E+21	1,430087E+21	3,808287E+22	2,860474E+21	4,094335E+22
1299	1,904155E+22	1,904151E+22	1,430088E+21	1,430416E+21	3,808306E+22	2,860503E+21	4,094356E+22
1300	1,904162E+22	1,904070E+22	1,430239E+21	1,430187E+21	3,808232E+22	2,860426E+21	4,094274E+22
1301	1,904024E+22	1,904140E+22	1,430441E+21	1,430291E+21	3,808164E+22	2,860733E+21	4,094237E+22
1302	1,904074E+22	1,904018E+22	1,430209E+21	1,430498E+21	3,808092E+22	2,860707E+21	4,094163E+22
1303	1,903994E+22	1,903957E+22	1,430547E+21	1,430273E+21	3,807951E+22	2,860820E+21	4,094033E+22
1304	1,903864E+22	1,903961E+22	1,430538E+21	1,430560E+21	3,807825E+22	2,861098E+21	4,093935E+22
1305	1,903902E+22	1,903803E+22	1,430437E+21	1,430625E+21	3,807705E+22	2,861062E+21	4,093811E+22
1306	1,903762E+22	1,903820E+22	1,430760E+21	1,430468E+21	3,807582E+22	2,861228E+21	4,093705E+22
1307	1,903754E+22	1,903788E+22	1,430524E+21	1,430813E+21	3,807543E+22	2,861337E+21	4,093676E+22
1308	1,903820E+22	1,903689E+22	1,430576E+21	1,430607E+21	3,807509E+22	2,861183E+21	4,093627E+22
1309	1,903718E+22	1,903809E+22	1,430786E+21	1,430514E+21	3,807527E+22	2,861300E+21	4,093657E+22
1310	1,903815E+22	1,903791E+22	1,430465E+21	1,430726E+21	3,807606E+22	2,861191E+21	4,093725E+22
1311	1,903829E+22	1,903796E+22	1,430626E+21	1,430408E+21	3,807626E+22	2,861033E+21	4,093729E+22
1312	1,903760E+22	1,903911E+22	1,430616E+21	1,430524E+21	3,807671E+22	2,861141E+21	4,093785E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1313	1,903916E+22	1,903851E+22	1,430336E+21	1,430578E+21	3,807767E+22	2,860914E+21	4,093859E+22
1314	1,903906E+22	1,903922E+22	1,430561E+21	1,430255E+21	3,807828E+22	2,860817E+21	4,093910E+22
1315	1,903944E+22	1,903989E+22	1,430357E+21	1,430515E+21	3,807933E+22	2,860872E+21	4,094020E+22
1316	1,904055E+22	1,903928E+22	1,430263E+21	1,430363E+21	3,807983E+22	2,860626E+21	4,094046E+22
1317	1,903944E+22	1,904038E+22	1,430539E+21	1,430240E+21	3,807982E+22	2,860779E+21	4,094060E+22
1318	1,903985E+22	1,904012E+22	1,430273E+21	1,430561E+21	3,807997E+22	2,860834E+21	4,094080E+22
1319	1,903993E+22	1,903916E+22	1,430432E+21	1,430356E+21	3,807909E+22	2,860787E+21	4,093988E+22
1320	1,903843E+22	1,903957E+22	1,430633E+21	1,430451E+21	3,807799E+22	2,861084E+21	4,093908E+22
1321	1,903902E+22	1,903829E+22	1,430403E+21	1,430679E+21	3,807731E+22	2,861082E+21	4,093839E+22
1322	1,903804E+22	1,903772E+22	1,430720E+21	1,430463E+21	3,807576E+22	2,861183E+21	4,093694E+22
1323	1,903686E+22	1,903775E+22	1,430683E+21	1,430772E+21	3,807461E+22	2,861456E+21	4,093607E+22
1324	1,903734E+22	1,903619E+22	1,430576E+21	1,430820E+21	3,807353E+22	2,861396E+21	4,093493E+22
1325	1,903599E+22	1,903647E+22	1,430917E+21	1,430636E+21	3,807247E+22	2,861552E+21	4,093402E+22
1326	1,903614E+22	1,903641E+22	1,430702E+21	1,430928E+21	3,807255E+22	2,861630E+21	4,093418E+22
1327	1,903674E+22	1,903556E+22	1,430748E+21	1,430727E+21	3,807231E+22	2,861475E+21	4,093378E+22
1328	1,903545E+22	1,903666E+22	1,430944E+21	1,430640E+21	3,807211E+22	2,861584E+21	4,093369E+22
1329	1,903647E+22	1,903642E+22	1,430619E+21	1,430883E+21	3,807289E+22	2,861502E+21	4,093440E+22
1330	1,903664E+22	1,903642E+22	1,430761E+21	1,430564E+21	3,807306E+22	2,861325E+21	4,093438E+22
1331	1,903632E+22	1,903752E+22	1,430728E+21	1,430678E+21	3,807384E+22	2,861405E+21	4,093525E+22
1332	1,903803E+22	1,903704E+22	1,430442E+21	1,430705E+21	3,807507E+22	2,861147E+21	4,093621E+22
1333	1,903780E+22	1,903787E+22	1,430691E+21	1,430378E+21	3,807567E+22	2,861070E+21	4,093674E+22
1334	1,903807E+22	1,903872E+22	1,430516E+21	1,430634E+21	3,807679E+22	2,861150E+21	4,093794E+22
1335	1,903896E+22	1,903804E+22	1,430428E+21	1,430528E+21	3,807700E+22	2,860956E+21	4,093796E+22
1336	1,903764E+22	1,903872E+22	1,430715E+21	1,430414E+21	3,807636E+22	2,861128E+21	4,093748E+22
1337	1,903819E+22	1,903830E+22	1,430461E+21	1,430740E+21	3,807649E+22	2,861201E+21	4,093769E+22
1338	1,903823E+22	1,903732E+22	1,430608E+21	1,430526E+21	3,807555E+22	2,861134E+21	4,093668E+22
1339	1,903681E+22	1,903768E+22	1,430791E+21	1,430631E+21	3,807449E+22	2,861422E+21	4,093591E+22
1340	1,903726E+22	1,903653E+22	1,430548E+21	1,430863E+21	3,807379E+22	2,861411E+21	4,093520E+22
1341	1,903614E+22	1,903595E+22	1,430876E+21	1,430655E+21	3,807209E+22	2,861531E+21	4,093362E+22
1342	1,903511E+22	1,903608E+22	1,430867E+21	1,430933E+21	3,807120E+22	2,861800E+21	4,093300E+22
1343	1,903574E+22	1,903464E+22	1,430755E+21	1,430980E+21	3,807038E+22	2,861735E+21	4,093211E+22
1344	1,903436E+22	1,903478E+22	1,431096E+21	1,430771E+21	3,806914E+22	2,861867E+21	4,093100E+22
1345	1,903460E+22	1,903483E+22	1,430889E+21	1,431068E+21	3,806943E+22	2,861957E+21	4,093139E+22
1346	1,903502E+22	1,903411E+22	1,430904E+21	1,430878E+21	3,806913E+22	2,861782E+21	4,093091E+22
1347	1,903385E+22	1,903509E+22	1,431067E+21	1,430816E+21	3,806894E+22	2,861883E+21	4,093082E+22
1348	1,903499E+22	1,903486E+22	1,430729E+21	1,431041E+21	3,806985E+22	2,861770E+21	4,093162E+22
1349	1,903528E+22	1,903490E+22	1,430879E+21	1,430703E+21	3,807018E+22	2,861582E+21	4,093176E+22
1350	1,903519E+22	1,903622E+22	1,430876E+21	1,430777E+21	3,807140E+22	2,861652E+21	4,093306E+22
1351	1,903678E+22	1,903589E+22	1,430591E+21	1,430823E+21	3,807267E+22	2,861415E+21	4,093409E+22
1352	1,903621E+22	1,903653E+22	1,430842E+21	1,430518E+21	3,807274E+22	2,861360E+21	4,093410E+22
1353	1,903646E+22	1,903725E+22	1,430684E+21	1,430800E+21	3,807370E+22	2,861484E+21	4,093519E+22
1354	1,903724E+22	1,903645E+22	1,430587E+21	1,430699E+21	3,807370E+22	2,861286E+21	4,093498E+22
1355	1,903617E+22	1,903694E+22	1,430859E+21	1,430593E+21	3,807311E+22	2,861453E+21	4,093456E+22
1356	1,903671E+22	1,903654E+22	1,430606E+21	1,430894E+21	3,807325E+22	2,861501E+21	4,093475E+22
1357	1,903656E+22	1,903561E+22	1,430771E+21	1,430694E+21	3,807217E+22	2,861465E+21	4,093364E+22
1358	1,903509E+22	1,903609E+22	1,430970E+21	1,430795E+21	3,807118E+22	2,861765E+21	4,093295E+22
1359	1,903540E+22	1,903490E+22	1,430730E+21	1,431058E+21	3,807030E+22	2,861787E+21	4,093209E+22
1360	1,903423E+22	1,903405E+22	1,431060E+21	1,430840E+21	3,806827E+22	2,861900E+21	4,093017E+22
1361	1,903348E+22	1,903422E+22	1,431064E+21	1,431098E+21	3,806770E+22	2,862163E+21	4,092986E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1362	1,903406E+22	1,903295E+22	1,430939E+21	1,431125E+21	3,806702E+22	2,862063E+21	4,092908E+22
1363	1,903279E+22	1,903313E+22	1,431248E+21	1,430930E+21	3,806591E+22	2,862178E+21	4,092809E+22
1364	1,903289E+22	1,903331E+22	1,431022E+21	1,431221E+21	3,806620E+22	2,862244E+21	4,092845E+22
1365	1,903326E+22	1,903259E+22	1,431037E+21	1,431047E+21	3,806584E+22	2,862084E+21	4,092793E+22
1366	1,903237E+22	1,903363E+22	1,431212E+21	1,430953E+21	3,806600E+22	2,862166E+21	4,092816E+22
1367	1,903368E+22	1,903351E+22	1,430869E+21	1,431175E+21	3,806719E+22	2,862045E+21	4,092924E+22
1368	1,903396E+22	1,903342E+22	1,431021E+21	1,430824E+21	3,806738E+22	2,861845E+21	4,092923E+22
1369	1,903394E+22	1,903484E+22	1,431033E+21	1,430908E+21	3,806878E+22	2,861941E+21	4,093072E+22
1370	1,903527E+22	1,903461E+22	1,430734E+21	1,430973E+21	3,806988E+22	2,861707E+21	4,093159E+22
1371	1,903476E+22	1,903499E+22	1,430967E+21	1,430703E+21	3,806975E+22	2,861670E+21	4,093142E+22
1372	1,903498E+22	1,903565E+22	1,430813E+21	1,430960E+21	3,807063E+22	2,861773E+21	4,093241E+22
1373	1,903577E+22	1,903481E+22	1,430730E+21	1,430853E+21	3,807058E+22	2,861583E+21	4,093216E+22
1374	1,903472E+22	1,903537E+22	1,431035E+21	1,430719E+21	3,807009E+22	2,861754E+21	4,093185E+22
1375	1,903504E+22	1,903507E+22	1,430785E+21	1,431043E+21	3,807012E+22	2,861828E+21	4,093195E+22
1376	1,903457E+22	1,903387E+22	1,430953E+21	1,430870E+21	3,806844E+22	2,861822E+21	4,093027E+22
1377	1,903319E+22	1,903425E+22	1,431166E+21	1,430987E+21	3,806744E+22	2,862153E+21	4,092960E+22
1378	1,903351E+22	1,903308E+22	1,430917E+21	1,431243E+21	3,806660E+22	2,862160E+21	4,092876E+22
1379	1,903265E+22	1,903214E+22	1,431219E+21	1,431029E+21	3,806479E+22	2,862249E+21	4,092704E+22
1380	1,903194E+22	1,903249E+22	1,431220E+21	1,431250E+21	3,806443E+22	2,862470E+21	4,092690E+22
1381	1,903239E+22	1,903138E+22	1,431095E+21	1,431287E+21	3,806377E+22	2,862382E+21	4,092615E+22
1382	1,903111E+22	1,903169E+22	1,431409E+21	1,431085E+21	3,806280E+22	2,862494E+21	4,092530E+22
1383	1,903118E+22	1,903187E+22	1,431176E+21	1,431387E+21	3,806305E+22	2,862563E+21	4,092561E+22
1384	1,903159E+22	1,903090E+22	1,431188E+21	1,431203E+21	3,806248E+22	2,862391E+21	4,092487E+22
1385	1,903108E+22	1,903200E+22	1,431368E+21	1,431089E+21	3,806308E+22	2,862457E+21	4,092554E+22
1386	1,903237E+22	1,903210E+22	1,431019E+21	1,431295E+21	3,806447E+22	2,862314E+21	4,092679E+22
1387	1,903274E+22	1,903203E+22	1,431137E+21	1,430969E+21	3,806477E+22	2,862106E+21	4,092688E+22
1388	1,903256E+22	1,903352E+22	1,431143E+21	1,431044E+21	3,806608E+22	2,862187E+21	4,092827E+22
1389	1,903372E+22	1,903325E+22	1,430861E+21	1,431124E+21	3,806697E+22	2,861985E+21	4,092895E+22
1390	1,903335E+22	1,903361E+22	1,431116E+21	1,430837E+21	3,806697E+22	2,861953E+21	4,092892E+22
1391	1,903352E+22	1,903424E+22	1,430975E+21	1,431088E+21	3,806776E+22	2,862063E+21	4,092982E+22
1392	1,903411E+22	1,903316E+22	1,430911E+21	1,430995E+21	3,806727E+22	2,861906E+21	4,092917E+22
1393	1,903308E+22	1,903368E+22	1,431225E+21	1,430885E+21	3,806676E+22	2,862110E+21	4,092887E+22
1394	1,903311E+22	1,903339E+22	1,430966E+21	1,431236E+21	3,806650E+22	2,862202E+21	4,092870E+22
1395	1,903280E+22	1,903192E+22	1,431104E+21	1,431096E+21	3,806471E+22	2,862200E+21	4,092691E+22
1396	1,903153E+22	1,903231E+22	1,431312E+21	1,431177E+21	3,806383E+22	2,862489E+21	4,092632E+22
1397	1,903189E+22	1,903128E+22	1,431079E+21	1,431417E+21	3,806317E+22	2,862497E+21	4,092567E+22
1398	1,903112E+22	1,903054E+22	1,431399E+21	1,431176E+21	3,806166E+22	2,862575E+21	4,092424E+22
1399	1,903020E+22	1,903105E+22	1,431396E+21	1,431395E+21	3,806125E+22	2,862792E+21	4,092405E+22
1400	1,903041E+22	1,902973E+22	1,431272E+21	1,431454E+21	3,806014E+22	2,862726E+21	4,092286E+22
1401	1,902935E+22	1,902997E+22	1,431585E+21	1,431251E+21	3,805931E+22	2,862836E+21	4,092215E+22
1402	1,902953E+22	1,903024E+22	1,431336E+21	1,431537E+21	3,805977E+22	2,862873E+21	4,092264E+22
1403	1,903032E+22	1,902921E+22	1,431311E+21	1,431356E+21	3,805953E+22	2,862667E+21	4,092220E+22
1404	1,902992E+22	1,903055E+22	1,431482E+21	1,431212E+21	3,806047E+22	2,862694E+21	4,092316E+22
1405	1,903107E+22	1,903086E+22	1,431139E+21	1,431430E+21	3,806194E+22	2,862569E+21	4,092451E+22
1406	1,903138E+22	1,903088E+22	1,431267E+21	1,431105E+21	3,806225E+22	2,862372E+21	4,092463E+22
1407	1,903108E+22	1,903230E+22	1,431283E+21	1,431177E+21	3,806338E+22	2,862460E+21	4,092584E+22
1408	1,903213E+22	1,903171E+22	1,431019E+21	1,431257E+21	3,806383E+22	2,862276E+21	4,092611E+22
1409	1,903194E+22	1,903199E+22	1,431294E+21	1,430970E+21	3,806393E+22	2,862263E+21	4,092620E+22
1410	1,903190E+22	1,903270E+22	1,431154E+21	1,431228E+21	3,806459E+22	2,862381E+21	4,092697E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1411	1,903246E+22	1,903143E+22	1,431056E+21	1,431188E+21	3,806390E+22	2,862244E+21	4,092614E+22
1412	1,903135E+22	1,903192E+22	1,431356E+21	1,431078E+21	3,806328E+22	2,862435E+21	4,092571E+22
1413	1,903135E+22	1,903160E+22	1,431115E+21	1,431436E+21	3,806295E+22	2,862550E+21	4,092550E+22
1414	1,903124E+22	1,903022E+22	1,431267E+21	1,431269E+21	3,806146E+22	2,862537E+21	4,092400E+22
1415	1,902998E+22	1,903071E+22	1,431486E+21	1,431320E+21	3,806069E+22	2,862806E+21	4,092350E+22
1416	1,903012E+22	1,902958E+22	1,431281E+21	1,431566E+21	3,805970E+22	2,862846E+21	4,092255E+22
1417	1,902934E+22	1,902890E+22	1,431603E+21	1,431343E+21	3,805824E+22	2,862946E+21	4,092119E+22
1418	1,902818E+22	1,902942E+22	1,431588E+21	1,431573E+21	3,805760E+22	2,863161E+21	4,092076E+22
1419	1,902864E+22	1,902784E+22	1,431422E+21	1,431656E+21	3,805648E+22	2,863078E+21	4,091955E+22
1420	1,902788E+22	1,902812E+22	1,431705E+21	1,431410E+21	3,805600E+22	2,863115E+21	4,091911E+22
1421	1,902818E+22	1,902862E+22	1,431468E+21	1,431674E+21	3,805680E+22	2,863142E+21	4,091994E+22
1422	1,902911E+22	1,902794E+22	1,431443E+21	1,431472E+21	3,805706E+22	2,862915E+21	4,091997E+22
1423	1,902855E+22	1,902945E+22	1,431612E+21	1,431322E+21	3,805800E+22	2,862934E+21	4,092093E+22
1424	1,902941E+22	1,902958E+22	1,431294E+21	1,431561E+21	3,805899E+22	2,862855E+21	4,092185E+22
1425	1,902987E+22	1,902948E+22	1,431429E+21	1,431246E+21	3,805934E+22	2,862675E+21	4,092202E+22
1426	1,902951E+22	1,903085E+22	1,431445E+21	1,431311E+21	3,806035E+22	2,862756E+21	4,092311E+22
1427	1,903075E+22	1,903002E+22	1,431154E+21	1,431418E+21	3,806077E+22	2,862572E+21	4,092334E+22
1428	1,903057E+22	1,903034E+22	1,431417E+21	1,431126E+21	3,806091E+22	2,862543E+21	4,092345E+22
1429	1,903033E+22	1,903112E+22	1,431289E+21	1,431409E+21	3,806146E+22	2,862698E+21	4,092416E+22
1430	1,903088E+22	1,902990E+22	1,431200E+21	1,431378E+21	3,806078E+22	2,862578E+21	4,092336E+22
1431	1,902974E+22	1,903032E+22	1,431507E+21	1,431249E+21	3,806006E+22	2,862756E+21	4,092281E+22
1432	1,902964E+22	1,902981E+22	1,431304E+21	1,431594E+21	3,805945E+22	2,862898E+21	4,092235E+22
1433	1,902965E+22	1,902849E+22	1,431478E+21	1,431417E+21	3,805814E+22	2,862895E+21	4,092103E+22
1434	1,902813E+22	1,902911E+22	1,431700E+21	1,431467E+21	3,805724E+22	2,863167E+21	4,092040E+22
1435	1,902821E+22	1,902777E+22	1,431459E+21	1,431757E+21	3,805598E+22	2,863216E+21	4,091920E+22
1436	1,902741E+22	1,902706E+22	1,431754E+21	1,431534E+21	3,805447E+22	2,863288E+21	4,091775E+22
1437	1,902637E+22	1,902759E+22	1,431734E+21	1,431758E+21	3,805395E+22	2,863492E+21	4,091745E+22
1438	1,902715E+22	1,902618E+22	1,431562E+21	1,431814E+21	3,805333E+22	2,863376E+21	4,091671E+22
1439	1,902657E+22	1,902667E+22	1,431837E+21	1,431528E+21	3,805325E+22	2,863365E+21	4,091661E+22
1440	1,902676E+22	1,902722E+22	1,431631E+21	1,431794E+21	3,805398E+22	2,863425E+21	4,091741E+22
1441	1,902768E+22	1,902671E+22	1,431605E+21	1,431605E+21	3,805439E+22	2,863210E+21	4,091760E+22
1442	1,902691E+22	1,902820E+22	1,431770E+21	1,431466E+21	3,805511E+22	2,863237E+21	4,091835E+22
1443	1,902792E+22	1,902798E+22	1,431423E+21	1,431727E+21	3,805590E+22	2,863150E+21	4,091905E+22
1444	1,902855E+22	1,902785E+22	1,431539E+21	1,431393E+21	3,805640E+22	2,862932E+21	4,091933E+22
1445	1,902819E+22	1,902929E+22	1,431573E+21	1,431452E+21	3,805747E+22	2,863025E+21	4,092050E+22
1446	1,902942E+22	1,902865E+22	1,431290E+21	1,431562E+21	3,805807E+22	2,862852E+21	4,092092E+22
1447	1,902908E+22	1,902899E+22	1,431547E+21	1,431269E+21	3,805806E+22	2,862816E+21	4,092088E+22
1448	1,902857E+22	1,902953E+22	1,431464E+21	1,431570E+21	3,805811E+22	2,863034E+21	4,092114E+22
1449	1,902923E+22	1,902828E+22	1,431389E+21	1,431541E+21	3,805751E+22	2,862929E+21	4,092044E+22
1450	1,902802E+22	1,902867E+22	1,431707E+21	1,431402E+21	3,805669E+22	2,863109E+21	4,091979E+22
1451	1,902797E+22	1,902796E+22	1,431493E+21	1,431768E+21	3,805594E+22	2,863260E+21	4,091920E+22
1452	1,902793E+22	1,902669E+22	1,431646E+21	1,431599E+21	3,805463E+22	2,863245E+21	4,091787E+22
1453	1,902618E+22	1,902733E+22	1,431868E+21	1,431668E+21	3,805351E+22	2,863535E+21	4,091704E+22
1454	1,902632E+22	1,902603E+22	1,431619E+21	1,431961E+21	3,805235E+22	2,863580E+21	4,091593E+22
1455	1,902570E+22	1,902526E+22	1,431895E+21	1,431701E+21	3,805096E+22	2,863596E+21	4,091456E+22
1456	1,902473E+22	1,902576E+22	1,431907E+21	1,431904E+21	3,805049E+22	2,863811E+21	4,091430E+22
1457	1,902574E+22	1,902465E+22	1,431740E+21	1,431941E+21	3,805038E+22	2,863681E+21	4,091406E+22
1458	1,902503E+22	1,902536E+22	1,432006E+21	1,431657E+21	3,805039E+22	2,863663E+21	4,091405E+22
1459	1,902521E+22	1,902577E+22	1,431774E+21	1,431955E+21	3,805097E+22	2,863729E+21	4,091470E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1460	1,902616E+22	1,902525E+22	1,431721E+21	1,431763E+21	3,805141E+22	2,863484E+21	4,091489E+22
1461	1,902546E+22	1,902670E+22	1,431890E+21	1,431615E+21	3,805216E+22	2,863505E+21	4,091567E+22
1462	1,902666E+22	1,902659E+22	1,431545E+21	1,431856E+21	3,805325E+22	2,863401E+21	4,091665E+22
1463	1,902734E+22	1,902651E+22	1,431661E+21	1,431501E+21	3,805385E+22	2,863162E+21	4,091701E+22
1464	1,902675E+22	1,902787E+22	1,431738E+21	1,431584E+21	3,805462E+22	2,863322E+21	4,091794E+22
1465	1,902786E+22	1,902731E+22	1,431465E+21	1,431717E+21	3,805518E+22	2,863182E+21	4,091836E+22
1466	1,902735E+22	1,902753E+22	1,431722E+21	1,431443E+21	3,805488E+22	2,863166E+21	4,091805E+22
1467	1,902696E+22	1,902769E+22	1,431627E+21	1,431755E+21	3,805465E+22	2,863382E+21	4,091803E+22
1468	1,902769E+22	1,902645E+22	1,431542E+21	1,431710E+21	3,805414E+22	2,863252E+21	4,091739E+22
1469	1,902638E+22	1,902691E+22	1,431875E+21	1,431571E+21	3,805329E+22	2,863447E+21	4,091674E+22
1470	1,902623E+22	1,902634E+22	1,431665E+21	1,431941E+21	3,805256E+22	2,863606E+21	4,091617E+22
1471	1,902604E+22	1,902505E+22	1,431806E+21	1,431773E+21	3,805110E+22	2,863579E+21	4,091467E+22
1472	1,902417E+22	1,902546E+22	1,432057E+21	1,431852E+21	3,804963E+22	2,863909E+21	4,091354E+22
1473	1,902453E+22	1,902424E+22	1,431809E+21	1,432128E+21	3,804877E+22	2,863937E+21	4,091271E+22
1474	1,902404E+22	1,902357E+22	1,432072E+21	1,431854E+21	3,804762E+22	2,863926E+21	4,091154E+22
1475	1,902327E+22	1,902399E+22	1,432069E+21	1,432060E+21	3,804726E+22	2,864130E+21	4,091139E+22
1476	1,902430E+22	1,902314E+22	1,431878E+21	1,432099E+21	3,804744E+22	2,863977E+21	4,091142E+22
1477	1,902346E+22	1,902396E+22	1,432138E+21	1,431826E+21	3,804742E+22	2,863964E+21	4,091139E+22
1478	1,902372E+22	1,902440E+22	1,431905E+21	1,432113E+21	3,804812E+22	2,864017E+21	4,091214E+22
1479	1,902481E+22	1,902384E+22	1,431835E+21	1,431883E+21	3,804865E+22	2,863718E+21	4,091237E+22
1480	1,902408E+22	1,902519E+22	1,432044E+21	1,431728E+21	3,804927E+22	2,863772E+21	4,091304E+22
1481	1,902531E+22	1,902529E+22	1,431713E+21	1,431963E+21	3,805061E+22	2,863677E+21	4,091428E+22
1482	1,902580E+22	1,902524E+22	1,431825E+21	1,431637E+21	3,805104E+22	2,863462E+21	4,091450E+22
1483	1,902513E+22	1,902629E+22	1,431889E+21	1,431762E+21	3,805142E+22	2,863651E+21	4,091507E+22
1484	1,902629E+22	1,902567E+22	1,431599E+21	1,431902E+21	3,805196E+22	2,863501E+21	4,091546E+22
1485	1,902579E+22	1,902581E+22	1,431861E+21	1,431624E+21	3,805159E+22	2,863485E+21	4,091508E+22
1486	1,902551E+22	1,902605E+22	1,431778E+21	1,431914E+21	3,805157E+22	2,863692E+21	4,091526E+22
1487	1,902620E+22	1,902486E+22	1,431695E+21	1,431851E+21	3,805106E+22	2,863546E+21	4,091460E+22
1488	1,902457E+22	1,902523E+22	1,432072E+21	1,431741E+21	3,804981E+22	2,863813E+21	4,091362E+22
1489	1,902427E+22	1,902473E+22	1,431870E+21	1,432120E+21	3,804900E+22	2,863989E+21	4,091299E+22
1490	1,902403E+22	1,902328E+22	1,432002E+21	1,431971E+21	3,804731E+22	2,863973E+21	4,091128E+22
1491	1,902240E+22	1,902335E+22	1,432230E+21	1,432046E+21	3,804575E+22	2,864276E+21	4,091003E+22
1492	1,902299E+22	1,902231E+22	1,431964E+21	1,432297E+21	3,804531E+22	2,864261E+21	4,090957E+22
1493	1,902253E+22	1,902190E+22	1,432222E+21	1,432012E+21	3,804443E+22	2,864234E+21	4,090866E+22
1494	1,902177E+22	1,902258E+22	1,432214E+21	1,432213E+21	3,804435E+22	2,864427E+21	4,090878E+22
1495	1,902273E+22	1,902183E+22	1,432008E+21	1,432233E+21	3,804456E+22	2,864241E+21	4,090880E+22
1496	1,902183E+22	1,902251E+22	1,432298E+21	1,431967E+21	3,804433E+22	2,864265E+21	4,090860E+22
1497	1,902221E+22	1,902304E+22	1,432072E+21	1,432224E+21	3,804525E+22	2,864297E+21	4,090955E+22
1498	1,902337E+22	1,902249E+22	1,431995E+21	1,432005E+21	3,804586E+22	2,864000E+21	4,090986E+22
1499	1,902275E+22	1,902358E+22	1,432189E+21	1,431871E+21	3,804634E+22	2,864060E+21	4,091040E+22
1500	1,902392E+22	1,902382E+22	1,431841E+21	1,432127E+21	3,804774E+22	2,863967E+21	4,091171E+22
1501	1,902428E+22	1,902378E+22	1,431943E+21	1,431823E+21	3,804806E+22	2,863766E+21	4,091182E+22
1502	1,902373E+22	1,902475E+22	1,432010E+21	1,431938E+21	3,804848E+22	2,863948E+21	4,091243E+22
1503	1,902495E+22	1,902412E+22	1,431723E+21	1,432035E+21	3,804906E+22	2,863757E+21	4,091282E+22
1504	1,902433E+22	1,902418E+22	1,432037E+21	1,431761E+21	3,804851E+22	2,863798E+21	4,091231E+22
1505	1,902388E+22	1,902461E+22	1,431981E+21	1,432038E+21	3,804849E+22	2,864019E+21	4,091251E+22
1506	1,902428E+22	1,902337E+22	1,431898E+21	1,432020E+21	3,804765E+22	2,863918E+21	4,091157E+22
1507	1,902258E+22	1,902329E+22	1,432260E+21	1,431945E+21	3,804587E+22	2,864204E+21	4,091008E+22
1508	1,902237E+22	1,902275E+22	1,432038E+21	1,432323E+21	3,804511E+22	2,864361E+21	4,090947E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1509	1,902226E+22	1,902131E+22	1,432158E+21	1,432165E+21	3,804356E+22	2,864323E+21	4,090789E+22
1510	1,902091E+22	1,902154E+22	1,432381E+21	1,432215E+21	3,804245E+22	2,864596E+21	4,090704E+22
1511	1,902155E+22	1,902075E+22	1,432112E+21	1,432434E+21	3,804230E+22	2,864547E+21	4,090685E+22
1512	1,902087E+22	1,902042E+22	1,432399E+21	1,432172E+21	3,804130E+22	2,864571E+21	4,090587E+22
1513	1,902004E+22	1,902128E+22	1,432398E+21	1,432357E+21	3,804132E+22	2,864755E+21	4,090607E+22
1514	1,902102E+22	1,902039E+22	1,432179E+21	1,432388E+21	3,804141E+22	2,864567E+21	4,090598E+22
1515	1,902030E+22	1,902072E+22	1,432446E+21	1,432117E+21	3,804102E+22	2,864564E+21	4,090559E+22
1516	1,902086E+22	1,902143E+22	1,432201E+21	1,432360E+21	3,804228E+22	2,864561E+21	4,090685E+22
1517	1,902197E+22	1,902101E+22	1,432116E+21	1,432151E+21	3,804298E+22	2,864267E+21	4,090724E+22
1518	1,902142E+22	1,902222E+22	1,432298E+21	1,432029E+21	3,804364E+22	2,864327E+21	4,090797E+22
1519	1,902256E+22	1,902249E+22	1,431949E+21	1,432263E+21	3,804505E+22	2,864212E+21	4,090926E+22
1520	1,902284E+22	1,902232E+22	1,432088E+21	1,431969E+21	3,804516E+22	2,864057E+21	4,090922E+22
1521	1,902231E+22	1,902342E+22	1,432179E+21	1,432047E+21	3,804572E+22	2,864226E+21	4,090995E+22
1522	1,902343E+22	1,902273E+22	1,431907E+21	1,432163E+21	3,804616E+22	2,864070E+21	4,091023E+22
1523	1,902270E+22	1,902246E+22	1,432224E+21	1,431927E+21	3,804516E+22	2,864150E+21	4,090931E+22
1524	1,902206E+22	1,902292E+22	1,432156E+21	1,432229E+21	3,804498E+22	2,864385E+21	4,090936E+22
1525	1,902231E+22	1,902154E+22	1,432066E+21	1,432242E+21	3,804385E+22	2,864307E+21	4,090816E+22
1526	1,902085E+22	1,902130E+22	1,432409E+21	1,432156E+21	3,804215E+22	2,864565E+21	4,090672E+22
1527	1,902079E+22	1,902083E+22	1,432182E+21	1,432480E+21	3,804163E+22	2,864662E+21	4,090629E+22
1528	1,902068E+22	1,901952E+22	1,432336E+21	1,432321E+21	3,804020E+22	2,864657E+21	4,090486E+22
1529	1,901925E+22	1,902010E+22	1,432576E+21	1,432343E+21	3,803935E+22	2,864920E+21	4,090427E+22
1530	1,901971E+22	1,901940E+22	1,432309E+21	1,432596E+21	3,803911E+22	2,864906E+21	4,090402E+22
1531	1,901904E+22	1,901871E+22	1,432572E+21	1,432353E+21	3,803776E+22	2,864925E+21	4,090268E+22
1532	1,901834E+22	1,901957E+22	1,432548E+21	1,432517E+21	3,803791E+22	2,865066E+21	4,090297E+22
1533	1,901946E+22	1,901874E+22	1,432310E+21	1,432539E+21	3,803819E+22	2,864849E+21	4,090304E+22
1534	1,901907E+22	1,901913E+22	1,432558E+21	1,432255E+21	3,803820E+22	2,864813E+21	4,090301E+22
1535	1,901965E+22	1,902006E+22	1,432310E+21	1,432471E+21	3,803972E+22	2,864781E+21	4,090450E+22
1536	1,902058E+22	1,901975E+22	1,432251E+21	1,432297E+21	3,804033E+22	2,864549E+21	4,090488E+22
1537	1,901997E+22	1,902105E+22	1,432450E+21	1,432159E+21	3,804102E+22	2,864609E+21	4,090563E+22
1538	1,902110E+22	1,902119E+22	1,432114E+21	1,432404E+21	3,804229E+22	2,864518E+21	4,090681E+22
1539	1,902142E+22	1,902064E+22	1,432246E+21	1,432113E+21	3,804207E+22	2,864360E+21	4,090643E+22
1540	1,902085E+22	1,902182E+22	1,432341E+21	1,432182E+21	3,804267E+22	2,864524E+21	4,090719E+22
1541	1,902171E+22	1,902116E+22	1,432070E+21	1,432329E+21	3,804287E+22	2,864399E+21	4,090727E+22
1542	1,902096E+22	1,902078E+22	1,432373E+21	1,432127E+21	3,804173E+22	2,864500E+21	4,090623E+22
1543	1,902028E+22	1,902115E+22	1,432301E+21	1,432408E+21	3,804143E+22	2,864709E+21	4,090614E+22
1544	1,902051E+22	1,901967E+22	1,432240E+21	1,432434E+21	3,804018E+22	2,864673E+21	4,090485E+22
1545	1,901919E+22	1,901961E+22	1,432591E+21	1,432303E+21	3,803880E+22	2,864894E+21	4,090370E+22
1546	1,901918E+22	1,901919E+22	1,432381E+21	1,432635E+21	3,803837E+22	2,865016E+21	4,090339E+22
1547	1,901895E+22	1,901774E+22	1,432526E+21	1,432498E+21	3,803669E+22	2,865024E+21	4,090171E+22
1548	1,901745E+22	1,901848E+22	1,432748E+21	1,432525E+21	3,803592E+22	2,865273E+21	4,090119E+22
1549	1,901782E+22	1,901771E+22	1,432473E+21	1,432787E+21	3,803553E+22	2,865260E+21	4,090079E+22
1550	1,901747E+22	1,901693E+22	1,432704E+21	1,432531E+21	3,803440E+22	2,865235E+21	4,089963E+22
1551	1,901697E+22	1,901791E+22	1,432667E+21	1,432632E+21	3,803488E+22	2,865299E+21	4,090018E+22
1552	1,901806E+22	1,901725E+22	1,432455E+21	1,432661E+21	3,803532E+22	2,865116E+21	4,090043E+22
1553	1,901766E+22	1,901796E+22	1,432706E+21	1,432359E+21	3,803562E+22	2,865064E+21	4,090069E+22
1554	1,901816E+22	1,901891E+22	1,432470E+21	1,432609E+21	3,803707E+22	2,865079E+21	4,090215E+22
1555	1,901905E+22	1,901828E+22	1,432400E+21	1,432455E+21	3,803733E+22	2,864855E+21	4,090218E+22
1556	1,901856E+22	1,901958E+22	1,432587E+21	1,432302E+21	3,803814E+22	2,864889E+21	4,090303E+22
1557	1,901966E+22	1,901969E+22	1,432257E+21	1,432543E+21	3,803935E+22	2,864801E+21	4,090415E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1558	1,902012E+22	1,901907E+22	1,432378E+21	1,432271E+21	3,803920E+22	2,864649E+21	4,090385E+22
1559	1,901939E+22	1,902032E+22	1,432476E+21	1,432324E+21	3,803970E+22	2,864800E+21	4,090450E+22
1560	1,901996E+22	1,901963E+22	1,432235E+21	1,432520E+21	3,803959E+22	2,864754E+21	4,090434E+22
1561	1,901917E+22	1,901918E+22	1,432548E+21	1,432300E+21	3,803836E+22	2,864848E+21	4,090320E+22
1562	1,901856E+22	1,901939E+22	1,432492E+21	1,432584E+21	3,803795E+22	2,865076E+21	4,090303E+22
1563	1,901885E+22	1,901767E+22	1,432422E+21	1,432606E+21	3,803652E+22	2,865028E+21	4,090155E+22
1564	1,901754E+22	1,901779E+22	1,432769E+21	1,432463E+21	3,803533E+22	2,865231E+21	4,090056E+22
1565	1,901731E+22	1,901753E+22	1,432567E+21	1,432811E+21	3,803484E+22	2,865377E+21	4,090022E+22
1566	1,901716E+22	1,901603E+22	1,432684E+21	1,432697E+21	3,803319E+22	2,865381E+21	4,089858E+22
1567	1,901569E+22	1,901678E+22	1,432893E+21	1,432680E+21	3,803247E+22	2,865573E+21	4,089804E+22
1568	1,901610E+22	1,901604E+22	1,432635E+21	1,432943E+21	3,803214E+22	2,865579E+21	4,089772E+22
1569	1,901591E+22	1,901546E+22	1,432864E+21	1,432644E+21	3,803137E+22	2,865509E+21	4,089688E+22
1570	1,901553E+22	1,901650E+22	1,432839E+21	1,432757E+21	3,803203E+22	2,865596E+21	4,089763E+22
1571	1,901655E+22	1,901575E+22	1,432611E+21	1,432816E+21	3,803229E+22	2,865427E+21	4,089772E+22
1572	1,901617E+22	1,901658E+22	1,432840E+21	1,432524E+21	3,803275E+22	2,865363E+21	4,089812E+22
1573	1,901664E+22	1,901745E+22	1,432609E+21	1,432778E+21	3,803410E+22	2,865387E+21	4,089948E+22
1574	1,901781E+22	1,901671E+22	1,432509E+21	1,432617E+21	3,803452E+22	2,865125E+21	4,089964E+22
1575	1,901740E+22	1,901809E+22	1,432697E+21	1,432410E+21	3,803549E+22	2,865107E+21	4,090060E+22
1576	1,901826E+22	1,901830E+22	1,432409E+21	1,432670E+21	3,803655E+22	2,865079E+21	4,090163E+22
1577	1,901853E+22	1,901784E+22	1,432543E+21	1,432402E+21	3,803637E+22	2,864945E+21	4,090131E+22
1578	1,901766E+22	1,901888E+22	1,432659E+21	1,432494E+21	3,803655E+22	2,865153E+21	4,090170E+22
1579	1,901811E+22	1,901778E+22	1,432416E+21	1,432709E+21	3,803589E+22	2,865125E+21	4,090102E+22
1580	1,901749E+22	1,901733E+22	1,432710E+21	1,432473E+21	3,803482E+22	2,865183E+21	4,090000E+22
1581	1,901688E+22	1,901753E+22	1,432668E+21	1,432749E+21	3,803442E+22	2,865417E+21	4,089983E+22
1582	1,901730E+22	1,901586E+22	1,432582E+21	1,432789E+21	3,803317E+22	2,865371E+21	4,089854E+22
1583	1,901589E+22	1,901616E+22	1,432923E+21	1,432626E+21	3,803205E+22	2,865549E+21	4,089759E+22
1584	1,901540E+22	1,901593E+22	1,432752E+21	1,433004E+21	3,803134E+22	2,865756E+21	4,089709E+22
1585	1,901529E+22	1,901447E+22	1,432868E+21	1,432863E+21	3,802977E+22	2,865731E+21	4,089550E+22
1586	1,901401E+22	1,901508E+22	1,433077E+21	1,432835E+21	3,802909E+22	2,865912E+21	4,089500E+22
1587	1,901445E+22	1,901421E+22	1,432808E+21	1,433090E+21	3,802866E+22	2,865898E+21	4,089455E+22
1588	1,901439E+22	1,901385E+22	1,433013E+21	1,432785E+21	3,802824E+22	2,865798E+21	4,089404E+22
1589	1,901392E+22	1,901503E+22	1,432991E+21	1,432915E+21	3,802896E+22	2,865906E+21	4,089486E+22
1590	1,901513E+22	1,901428E+22	1,432728E+21	1,432997E+21	3,802940E+22	2,865725E+21	4,089513E+22
1591	1,901489E+22	1,901515E+22	1,432941E+21	1,432659E+21	3,803004E+22	2,865600E+21	4,089564E+22
1592	1,901535E+22	1,901611E+22	1,432741E+21	1,432907E+21	3,803146E+22	2,865647E+21	4,089711E+22
1593	1,901656E+22	1,901551E+22	1,432651E+21	1,432710E+21	3,803207E+22	2,865360E+21	4,089743E+22
1594	1,901606E+22	1,901682E+22	1,432866E+21	1,432527E+21	3,803288E+22	2,865393E+21	4,089828E+22
1595	1,901658E+22	1,901683E+22	1,432580E+21	1,432825E+21	3,803341E+22	2,865405E+21	4,089882E+22
1596	1,901678E+22	1,901626E+22	1,432704E+21	1,432585E+21	3,803304E+22	2,865290E+21	4,089833E+22
1597	1,901588E+22	1,901708E+22	1,432833E+21	1,432685E+21	3,803296E+22	2,865518E+21	4,089848E+22
1598	1,901660E+22	1,901584E+22	1,432560E+21	1,432901E+21	3,803244E+22	2,865460E+21	4,089790E+22
1599	1,901606E+22	1,901551E+22	1,432845E+21	1,432619E+21	3,803156E+22	2,865464E+21	4,089703E+22
1600	1,901522E+22	1,901590E+22	1,432845E+21	1,432912E+21	3,803112E+22	2,865757E+21	4,089688E+22
1601	1,901544E+22	1,901444E+22	1,432770E+21	1,432950E+21	3,802988E+22	2,865720E+21	4,089560E+22
1602	1,901398E+22	1,901457E+22	1,433126E+21	1,432812E+21	3,802855E+22	2,865938E+21	4,089449E+22
1603	1,901339E+22	1,901405E+22	1,432952E+21	1,433188E+21	3,802744E+22	2,866139E+21	4,089358E+22
1604	1,901352E+22	1,901261E+22	1,433041E+21	1,433033E+21	3,802613E+22	2,866073E+21	4,089221E+22
1605	1,901235E+22	1,901323E+22	1,433247E+21	1,432993E+21	3,802558E+22	2,866240E+21	4,089182E+22
1606	1,901301E+22	1,901247E+22	1,432942E+21	1,433263E+21	3,802549E+22	2,866205E+21	4,089169E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1607	1,901301E+22	1,901238E+22	1,433118E+21	1,432937E+21	3,802540E+22	2,866055E+21	4,089145E+22
1608	1,901246E+22	1,901366E+22	1,433127E+21	1,433082E+21	3,802612E+22	2,866209E+21	4,089233E+22
1609	1,901374E+22	1,901306E+22	1,432869E+21	1,433121E+21	3,802681E+22	2,865991E+21	4,089280E+22
1610	1,901368E+22	1,901385E+22	1,433090E+21	1,432769E+21	3,802753E+22	2,865860E+21	4,089339E+22
1611	1,901393E+22	1,901465E+22	1,432905E+21	1,433008E+21	3,802858E+22	2,865913E+21	4,089449E+22
1612	1,901506E+22	1,901416E+22	1,432805E+21	1,432831E+21	3,802922E+22	2,865637E+21	4,089486E+22
1613	1,901435E+22	1,901535E+22	1,433031E+21	1,432688E+21	3,802970E+22	2,865719E+21	4,089542E+22
1614	1,901494E+22	1,901516E+22	1,432716E+21	1,433021E+21	3,803011E+22	2,865737E+21	4,089584E+22
1615	1,901527E+22	1,901455E+22	1,432821E+21	1,432754E+21	3,802982E+22	2,865575E+21	4,089539E+22
1616	1,901438E+22	1,901537E+22	1,432982E+21	1,432852E+21	3,802975E+22	2,865834E+21	4,089558E+22
1617	1,901512E+22	1,901433E+22	1,432728E+21	1,433038E+21	3,802945E+22	2,865767E+21	4,089522E+22
1618	1,901452E+22	1,901398E+22	1,433034E+21	1,432780E+21	3,802850E+22	2,865814E+21	4,089431E+22
1619	1,901327E+22	1,901424E+22	1,433048E+21	1,433095E+21	3,802751E+22	2,866143E+21	4,089366E+22
1620	1,901347E+22	1,901270E+22	1,432964E+21	1,433153E+21	3,802617E+22	2,866117E+21	4,089229E+22
1621	1,901204E+22	1,901262E+22	1,433322E+21	1,433010E+21	3,802465E+22	2,866332E+21	4,089099E+22
1622	1,901174E+22	1,901202E+22	1,433105E+21	1,433373E+21	3,802376E+22	2,866478E+21	4,089024E+22
1623	1,901203E+22	1,901077E+22	1,433170E+21	1,433177E+21	3,802280E+22	2,866347E+21	4,088915E+22
1624	1,901078E+22	1,901166E+22	1,433398E+21	1,433149E+21	3,802244E+22	2,866546E+21	4,088899E+22
1625	1,901144E+22	1,901120E+22	1,433095E+21	1,433402E+21	3,802264E+22	2,866497E+21	4,088914E+22
1626	1,901153E+22	1,901106E+22	1,433274E+21	1,433081E+21	3,802260E+22	2,866355E+21	4,088895E+22
1627	1,901090E+22	1,901221E+22	1,433287E+21	1,433209E+21	3,802311E+22	2,866496E+21	4,088961E+22
1628	1,901234E+22	1,901167E+22	1,433018E+21	1,433234E+21	3,802401E+22	2,866251E+21	4,089026E+22
1629	1,901225E+22	1,901239E+22	1,433252E+21	1,432892E+21	3,802464E+22	2,866144E+21	4,089079E+22
1630	1,901252E+22	1,901316E+22	1,433034E+21	1,433161E+21	3,802568E+22	2,866195E+21	4,089188E+22
1631	1,901357E+22	1,901271E+22	1,432912E+21	1,432997E+21	3,802629E+22	2,865910E+21	4,089220E+22
1632	1,901278E+22	1,901380E+22	1,433165E+21	1,432882E+21	3,802658E+22	2,866047E+21	4,089263E+22
1633	1,901348E+22	1,901364E+22	1,432861E+21	1,433178E+21	3,802712E+22	2,866039E+21	4,089315E+22
1634	1,901397E+22	1,901295E+22	1,432975E+21	1,432899E+21	3,802691E+22	2,865873E+21	4,089279E+22
1635	1,901280E+22	1,901370E+22	1,433161E+21	1,432990E+21	3,802650E+22	2,866151E+21	4,089265E+22
1636	1,901339E+22	1,901279E+22	1,432917E+21	1,433195E+21	3,802618E+22	2,866112E+21	4,089229E+22
1637	1,901256E+22	1,901230E+22	1,433239E+21	1,432976E+21	3,802486E+22	2,866215E+21	4,089108E+22
1638	1,901137E+22	1,901234E+22	1,433223E+21	1,433304E+21	3,802370E+22	2,866527E+21	4,089023E+22
1639	1,901173E+22	1,901079E+22	1,433111E+21	1,433335E+21	3,802251E+22	2,866446E+21	4,088896E+22
1640	1,901036E+22	1,901071E+22	1,433483E+21	1,433183E+21	3,802108E+22	2,866666E+21	4,088774E+22
1641	1,901014E+22	1,901039E+22	1,433274E+21	1,433508E+21	3,802054E+22	2,866782E+21	4,088732E+22
1642	1,901051E+22	1,900929E+22	1,433334E+21	1,433325E+21	3,801979E+22	2,866659E+21	4,088645E+22
1643	1,900900E+22	1,901014E+22	1,433569E+21	1,433310E+21	3,801914E+22	2,866879E+21	4,088602E+22
1644	1,900978E+22	1,900974E+22	1,433265E+21	1,433563E+21	3,801952E+22	2,866828E+21	4,088635E+22
1645	1,901000E+22	1,900950E+22	1,433439E+21	1,433233E+21	3,801950E+22	2,866672E+21	4,088617E+22
1646	1,900959E+22	1,901059E+22	1,433412E+21	1,433342E+21	3,802018E+22	2,866754E+21	4,088694E+22
1647	1,901106E+22	1,901023E+22	1,433121E+21	1,433348E+21	3,802129E+22	2,866469E+21	4,088776E+22
1648	1,901079E+22	1,901103E+22	1,433375E+21	1,433043E+21	3,802182E+22	2,866417E+21	4,088824E+22
1649	1,901099E+22	1,901192E+22	1,433169E+21	1,433306E+21	3,802291E+22	2,866475E+21	4,088938E+22
1650	1,901215E+22	1,901131E+22	1,433053E+21	1,433155E+21	3,802346E+22	2,866209E+21	4,088967E+22
1651	1,901126E+22	1,901219E+22	1,433318E+21	1,433029E+21	3,802346E+22	2,866347E+21	4,088980E+22
1652	1,901207E+22	1,901207E+22	1,433027E+21	1,433312E+21	3,802415E+22	2,866339E+21	4,089049E+22
1653	1,901245E+22	1,901134E+22	1,433160E+21	1,433051E+21	3,802379E+22	2,866211E+21	4,089000E+22
1654	1,901119E+22	1,901204E+22	1,433321E+21	1,433167E+21	3,802322E+22	2,866488E+21	4,088971E+22
1655	1,901161E+22	1,901113E+22	1,433070E+21	1,433386E+21	3,802274E+22	2,866456E+21	4,088919E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1656	1,901067E+22	1,901049E+22	1,433417E+21	1,433193E+21	3,802116E+22	2,866610E+21	4,088777E+22
1657	1,900960E+22	1,901055E+22	1,433400E+21	1,433471E+21	3,802014E+22	2,866871E+21	4,088701E+22
1658	1,901010E+22	1,900896E+22	1,433289E+21	1,433487E+21	3,801906E+22	2,866776E+21	4,088584E+22
1659	1,900855E+22	1,900891E+22	1,433665E+21	1,433328E+21	3,801746E+22	2,866994E+21	4,088445E+22
1660	1,900834E+22	1,900878E+22	1,433460E+21	1,433663E+21	3,801713E+22	2,867123E+21	4,088425E+22
1661	1,900866E+22	1,900769E+22	1,433519E+21	1,433509E+21	3,801635E+22	2,867028E+21	4,088338E+22
1662	1,900739E+22	1,900845E+22	1,433709E+21	1,433489E+21	3,801583E+22	2,867198E+21	4,088303E+22
1663	1,900837E+22	1,900816E+22	1,433382E+21	1,433709E+21	3,801653E+22	2,867091E+21	4,088362E+22
1664	1,900867E+22	1,900800E+22	1,433563E+21	1,433375E+21	3,801666E+22	2,866939E+21	4,088360E+22
1665	1,900829E+22	1,900931E+22	1,433544E+21	1,433447E+21	3,801760E+22	2,866991E+21	4,088459E+22
1666	1,900973E+22	1,900901E+22	1,433253E+21	1,433475E+21	3,801874E+22	2,866728E+21	4,088547E+22
1667	1,900918E+22	1,900965E+22	1,433519E+21	1,433195E+21	3,801883E+22	2,866715E+21	4,088554E+22
1668	1,900948E+22	1,901046E+22	1,433330E+21	1,433459E+21	3,801995E+22	2,866789E+21	4,088674E+22
1669	1,901073E+22	1,900973E+22	1,433219E+21	1,433310E+21	3,802046E+22	2,866529E+21	4,088699E+22
1670	1,900996E+22	1,901050E+22	1,433453E+21	1,433173E+21	3,802046E+22	2,866626E+21	4,088709E+22
1671	1,901068E+22	1,901055E+22	1,433164E+21	1,433450E+21	3,802122E+22	2,866614E+21	4,088784E+22
1672	1,901077E+22	1,900982E+22	1,433317E+21	1,433233E+21	3,802059E+22	2,866551E+21	4,088714E+22
1673	1,900935E+22	1,901053E+22	1,433496E+21	1,433337E+21	3,801988E+22	2,866833E+21	4,088671E+22
1674	1,900982E+22	1,900946E+22	1,433249E+21	1,433561E+21	3,801928E+22	2,866809E+21	4,088609E+22
1675	1,900875E+22	1,900859E+22	1,433605E+21	1,433361E+21	3,801734E+22	2,866967E+21	4,088431E+22
1676	1,900783E+22	1,900869E+22	1,433599E+21	1,433622E+21	3,801652E+22	2,867221E+21	4,088374E+22
1677	1,900833E+22	1,900714E+22	1,433490E+21	1,433662E+21	3,801547E+22	2,867151E+21	4,088262E+22
1678	1,900683E+22	1,900710E+22	1,433814E+21	1,433523E+21	3,801393E+22	2,867337E+21	4,088126E+22
1679	1,900667E+22	1,900711E+22	1,433598E+21	1,433858E+21	3,801378E+22	2,867456E+21	4,088124E+22
1680	1,900704E+22	1,900604E+22	1,433661E+21	1,433705E+21	3,801308E+22	2,867366E+21	4,088045E+22
1681	1,900600E+22	1,900695E+22	1,433848E+21	1,433617E+21	3,801296E+22	2,867465E+21	4,088042E+22
1682	1,900712E+22	1,900677E+22	1,433523E+21	1,433808E+21	3,801388E+22	2,867331E+21	4,088121E+22
1683	1,900712E+22	1,900664E+22	1,433716E+21	1,433483E+21	3,801376E+22	2,867200E+21	4,088096E+22
1684	1,900671E+22	1,900802E+22	1,433709E+21	1,433571E+21	3,801473E+22	2,867280E+21	4,088201E+22
1685	1,900807E+22	1,900763E+22	1,433422E+21	1,433639E+21	3,801569E+22	2,867061E+21	4,088275E+22
1686	1,900775E+22	1,900804E+22	1,433640E+21	1,433363E+21	3,801579E+22	2,867003E+21	4,088279E+22
1687	1,900822E+22	1,900888E+22	1,433447E+21	1,433603E+21	3,801711E+22	2,867050E+21	4,088416E+22
1688	1,900941E+22	1,900822E+22	1,433353E+21	1,433463E+21	3,801763E+22	2,866816E+21	4,088444E+22
1689	1,900861E+22	1,900913E+22	1,433598E+21	1,433303E+21	3,801774E+22	2,866901E+21	4,088464E+22
1690	1,900910E+22	1,900917E+22	1,433325E+21	1,433600E+21	3,801827E+22	2,866925E+21	4,088520E+22
1691	1,900882E+22	1,900822E+22	1,433502E+21	1,433421E+21	3,801704E+22	2,866924E+21	4,088396E+22
1692	1,900748E+22	1,900874E+22	1,433698E+21	1,433516E+21	3,801622E+22	2,867214E+21	4,088343E+22
1693	1,900800E+22	1,900754E+22	1,433453E+21	1,433744E+21	3,801553E+22	2,867198E+21	4,088273E+22
1694	1,900708E+22	1,900655E+22	1,433762E+21	1,433538E+21	3,801362E+22	2,867300E+21	4,088092E+22
1695	1,900615E+22	1,900682E+22	1,433751E+21	1,433795E+21	3,801298E+22	2,867546E+21	4,088052E+22
1696	1,900652E+22	1,900544E+22	1,433647E+21	1,433867E+21	3,801196E+22	2,867514E+21	4,087947E+22
1697	1,900513E+22	1,900553E+22	1,433968E+21	1,433698E+21	3,801066E+22	2,867665E+21	4,087832E+22
1698	1,900514E+22	1,900559E+22	1,433758E+21	1,434004E+21	3,801073E+22	2,867763E+21	4,087849E+22
1699	1,900542E+22	1,900450E+22	1,433828E+21	1,433835E+21	3,800992E+22	2,867663E+21	4,087758E+22
1700	1,900451E+22	1,900551E+22	1,434028E+21	1,433720E+21	3,801002E+22	2,867747E+21	4,087777E+22
1701	1,900554E+22	1,900539E+22	1,433703E+21	1,433939E+21	3,801093E+22	2,867642E+21	4,087857E+22
1702	1,900555E+22	1,900513E+22	1,433844E+21	1,433647E+21	3,801068E+22	2,867491E+21	4,087817E+22
1703	1,900523E+22	1,900652E+22	1,433831E+21	1,433749E+21	3,801174E+22	2,867580E+21	4,087932E+22
1704	1,900668E+22	1,900607E+22	1,433545E+21	1,433821E+21	3,801275E+22	2,867366E+21	4,088012E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1705	1,900659E+22	1,900657E+22	1,433754E+21	1,433491E+21	3,801316E+22	2,867245E+21	4,088041E+22
1706	1,900708E+22	1,900754E+22	1,433578E+21	1,433706E+21	3,801463E+22	2,867284E+21	4,088191E+22
1707	1,900783E+22	1,900688E+22	1,433511E+21	1,433590E+21	3,801471E+22	2,867101E+21	4,088181E+22
1708	1,900687E+22	1,900776E+22	1,433787E+21	1,433449E+21	3,801463E+22	2,867236E+21	4,088186E+22
1709	1,900720E+22	1,900760E+22	1,433530E+21	1,433782E+21	3,801480E+22	2,867312E+21	4,088211E+22
1710	1,900703E+22	1,900630E+22	1,433664E+21	1,433617E+21	3,801333E+22	2,867281E+21	4,088061E+22
1711	1,900586E+22	1,900677E+22	1,433854E+21	1,433697E+21	3,801263E+22	2,867551E+21	4,088018E+22
1712	1,900633E+22	1,900563E+22	1,433616E+21	1,433934E+21	3,801196E+22	2,867550E+21	4,087951E+22
1713	1,900548E+22	1,900484E+22	1,433913E+21	1,433707E+21	3,801032E+22	2,867619E+21	4,087794E+22
1714	1,900449E+22	1,900525E+22	1,433914E+21	1,433965E+21	3,800974E+22	2,867879E+21	4,087762E+22
1715	1,900460E+22	1,900382E+22	1,433835E+21	1,434052E+21	3,800842E+22	2,867887E+21	4,087631E+22
1716	1,900342E+22	1,900389E+22	1,434168E+21	1,433851E+21	3,800731E+22	2,868019E+21	4,087533E+22
1717	1,900348E+22	1,900396E+22	1,433963E+21	1,434145E+21	3,800744E+22	2,868108E+21	4,087555E+22
1718	1,900385E+22	1,900281E+22	1,433977E+21	1,433976E+21	3,800667E+22	2,867953E+21	4,087462E+22
1719	1,900296E+22	1,900392E+22	1,434162E+21	1,433870E+21	3,800689E+22	2,868032E+21	4,087492E+22
1720	1,900385E+22	1,900389E+22	1,433833E+21	1,434122E+21	3,800774E+22	2,867956E+21	4,087569E+22
1721	1,900411E+22	1,900369E+22	1,433952E+21	1,433809E+21	3,800780E+22	2,867760E+21	4,087556E+22
1722	1,900402E+22	1,900508E+22	1,433948E+21	1,433877E+21	3,800910E+22	2,867825E+21	4,087693E+22
1723	1,900536E+22	1,900469E+22	1,433686E+21	1,433940E+21	3,801005E+22	2,867626E+21	4,087767E+22
1724	1,900534E+22	1,900527E+22	1,433918E+21	1,433593E+21	3,801061E+22	2,867511E+21	4,087812E+22
1725	1,900558E+22	1,900626E+22	1,433762E+21	1,433839E+21	3,801185E+22	2,867601E+21	4,087945E+22
1726	1,900615E+22	1,900536E+22	1,433657E+21	1,433768E+21	3,801151E+22	2,867425E+21	4,087893E+22
1727	1,900518E+22	1,900603E+22	1,433942E+21	1,433649E+21	3,801121E+22	2,867591E+21	4,087880E+22
1728	1,900547E+22	1,900575E+22	1,433691E+21	1,433983E+21	3,801122E+22	2,867674E+21	4,087890E+22
1729	1,900552E+22	1,900447E+22	1,433810E+21	1,433781E+21	3,801000E+22	2,867592E+21	4,087759E+22
1730	1,900437E+22	1,900503E+22	1,434014E+21	1,433838E+21	3,800940E+22	2,867851E+21	4,087726E+22
1731	1,900446E+22	1,900398E+22	1,433802E+21	1,434101E+21	3,800845E+22	2,867903E+21	4,087635E+22
1732	1,900358E+22	1,900325E+22	1,434116E+21	1,433878E+21	3,800683E+22	2,867993E+21	4,087483E+22
1733	1,900257E+22	1,900361E+22	1,434130E+21	1,434150E+21	3,800618E+22	2,868280E+21	4,087446E+22
1734	1,900282E+22	1,900198E+22	1,434006E+21	1,434232E+21	3,800480E+22	2,868238E+21	4,087303E+22
1735	1,900184E+22	1,900209E+22	1,434329E+21	1,434015E+21	3,800393E+22	2,868344E+21	4,087228E+22
1736	1,900187E+22	1,900227E+22	1,434117E+21	1,434305E+21	3,800414E+22	2,868422E+21	4,087257E+22
1737	1,900234E+22	1,900129E+22	1,434100E+21	1,434129E+21	3,800363E+22	2,868229E+21	4,087186E+22
1738	1,900150E+22	1,900249E+22	1,434282E+21	1,434020E+21	3,800399E+22	2,868302E+21	4,087229E+22
1739	1,900227E+22	1,900244E+22	1,433976E+21	1,434281E+21	3,800471E+22	2,868257E+21	4,087296E+22
1740	1,900282E+22	1,900229E+22	1,434103E+21	1,433929E+21	3,800511E+22	2,868033E+21	4,087314E+22
1741	1,900279E+22	1,900375E+22	1,434114E+21	1,433988E+21	3,800653E+22	2,868102E+21	4,087464E+22
1742	1,900402E+22	1,900327E+22	1,433821E+21	1,434057E+21	3,800730E+22	2,867879E+21	4,087518E+22
1743	1,900389E+22	1,900387E+22	1,434058E+21	1,433744E+21	3,800776E+22	2,867802E+21	4,087556E+22
1744	1,900384E+22	1,900478E+22	1,433913E+21	1,434017E+21	3,800862E+22	2,867931E+21	4,087656E+22
1745	1,900455E+22	1,900377E+22	1,433794E+21	1,433947E+21	3,800831E+22	2,867740E+21	4,087605E+22
1746	1,900370E+22	1,900433E+22	1,434087E+21	1,433803E+21	3,800803E+22	2,867889E+21	4,087592E+22
1747	1,900379E+22	1,900404E+22	1,433867E+21	1,434138E+21	3,800783E+22	2,868005E+21	4,087583E+22
1748	1,900391E+22	1,900282E+22	1,434004E+21	1,433927E+21	3,800673E+22	2,867931E+21	4,087466E+22
1749	1,900257E+22	1,900342E+22	1,434220E+21	1,434016E+21	3,800599E+22	2,868236E+21	4,087423E+22
1750	1,900253E+22	1,900220E+22	1,433980E+21	1,434311E+21	3,800473E+22	2,868291E+21	4,087303E+22
1751	1,900180E+22	1,900134E+22	1,434291E+21	1,434097E+21	3,800314E+22	2,868388E+21	4,087153E+22
1752	1,900079E+22	1,900170E+22	1,434303E+21	1,434341E+21	3,800249E+22	2,868645E+21	4,087114E+22
1753	1,900130E+22	1,900022E+22	1,434148E+21	1,434386E+21	3,800152E+22	2,868534E+21	4,087006E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1754	1,900035E+22	1,900046E+22	1,434468E+21	1,434139E+21	3,800081E+22	2,868608E+21	4,086942E+22
1755	1,900006E+22	1,900079E+22	1,434277E+21	1,434447E+21	3,800085E+22	2,868725E+21	4,086958E+22
1756	1,900066E+22	1,899989E+22	1,434267E+21	1,434270E+21	3,800055E+22	2,868537E+21	4,086909E+22
1757	1,899996E+22	1,900107E+22	1,434451E+21	1,434169E+21	3,800103E+22	2,868620E+21	4,086965E+22
1758	1,900089E+22	1,900090E+22	1,434111E+21	1,434420E+21	3,800180E+22	2,868531E+21	4,087033E+22
1759	1,900165E+22	1,900081E+22	1,434232E+21	1,434063E+21	3,800246E+22	2,868295E+21	4,087075E+22
1760	1,900146E+22	1,900238E+22	1,434250E+21	1,434118E+21	3,800384E+22	2,868368E+21	4,087220E+22
1761	1,900265E+22	1,900200E+22	1,433937E+21	1,434201E+21	3,800465E+22	2,868138E+21	4,087279E+22
1762	1,900241E+22	1,900249E+22	1,434187E+21	1,433900E+21	3,800490E+22	2,868087E+21	4,087299E+22
1763	1,900212E+22	1,900324E+22	1,434078E+21	1,434186E+21	3,800536E+22	2,868264E+21	4,087362E+22
1764	1,900300E+22	1,900215E+22	1,433974E+21	1,434093E+21	3,800515E+22	2,868067E+21	4,087321E+22
1765	1,900219E+22	1,900267E+22	1,434275E+21	1,433954E+21	3,800486E+22	2,868229E+21	4,087309E+22
1766	1,900211E+22	1,900224E+22	1,434035E+21	1,434302E+21	3,800435E+22	2,868338E+21	4,087269E+22
1767	1,900215E+22	1,900106E+22	1,434172E+21	1,434127E+21	3,800320E+22	2,868299E+21	4,087150E+22
1768	1,900064E+22	1,900163E+22	1,434390E+21	1,434223E+21	3,800228E+22	2,868613E+21	4,087089E+22
1769	1,900080E+22	1,900039E+22	1,434136E+21	1,434504E+21	3,800119E+22	2,868641E+21	4,086983E+22
1770	1,900023E+22	1,899957E+22	1,434448E+21	1,434254E+21	3,799979E+22	2,868702E+21	4,086850E+22
1771	1,899905E+22	1,900001E+22	1,434487E+21	1,434479E+21	3,799906E+22	2,868966E+21	4,086803E+22
1772	1,899963E+22	1,899868E+22	1,434340E+21	1,434513E+21	3,799830E+22	2,868853E+21	4,086716E+22
1773	1,899860E+22	1,899898E+22	1,434651E+21	1,434298E+21	3,799758E+22	2,868949E+21	4,086653E+22
1774	1,899826E+22	1,899913E+22	1,434432E+21	1,434625E+21	3,799739E+22	2,869057E+21	4,086645E+22
1775	1,899916E+22	1,899821E+22	1,434409E+21	1,434453E+21	3,799737E+22	2,868862E+21	4,086624E+22
1776	1,899860E+22	1,899947E+22	1,434583E+21	1,434318E+21	3,799807E+22	2,868901E+21	4,086697E+22
1777	1,899977E+22	1,899949E+22	1,434224E+21	1,434542E+21	3,799926E+22	2,868766E+21	4,086803E+22
1778	1,900045E+22	1,899954E+22	1,434344E+21	1,434172E+21	3,800000E+22	2,868516E+21	4,086851E+22
1779	1,899983E+22	1,900116E+22	1,434395E+21	1,434250E+21	3,800099E+22	2,868645E+21	4,086963E+22
1780	1,900102E+22	1,900072E+22	1,434102E+21	1,434340E+21	3,800174E+22	2,868442E+21	4,087018E+22
1781	1,900083E+22	1,900100E+22	1,434362E+21	1,434061E+21	3,800183E+22	2,868424E+21	4,087026E+22
1782	1,900054E+22	1,900150E+22	1,434237E+21	1,434343E+21	3,800204E+22	2,868580E+21	4,087062E+22
1783	1,900158E+22	1,900037E+22	1,434132E+21	1,434264E+21	3,800195E+22	2,868396E+21	4,087034E+22
1784	1,900057E+22	1,900093E+22	1,434430E+21	1,434126E+21	3,800150E+22	2,868557E+21	4,087006E+22
1785	1,900049E+22	1,900059E+22	1,434176E+21	1,434492E+21	3,800109E+22	2,868668E+21	4,086975E+22
1786	1,900046E+22	1,899937E+22	1,434322E+21	1,434315E+21	3,799983E+22	2,868637E+21	4,086846E+22
1787	1,899878E+22	1,899989E+22	1,434578E+21	1,434399E+21	3,799867E+22	2,868977E+21	4,086764E+22
1788	1,899910E+22	1,899871E+22	1,434343E+21	1,434643E+21	3,799781E+22	2,868986E+21	4,086680E+22
1789	1,899851E+22	1,899791E+22	1,434656E+21	1,434400E+21	3,799643E+22	2,869056E+21	4,086548E+22
1790	1,899715E+22	1,899825E+22	1,434669E+21	1,434634E+21	3,799539E+22	2,869302E+21	4,086469E+22
1791	1,899777E+22	1,899694E+22	1,434507E+21	1,434705E+21	3,799471E+22	2,869212E+21	4,086392E+22
1792	1,899679E+22	1,899725E+22	1,434797E+21	1,434487E+21	3,799403E+22	2,869283E+21	4,086332E+22
1793	1,899685E+22	1,899748E+22	1,434552E+21	1,434795E+21	3,799433E+22	2,869347E+21	4,086368E+22
1794	1,899799E+22	1,899674E+22	1,434520E+21	1,434580E+21	3,799473E+22	2,869100E+21	4,086383E+22
1795	1,899732E+22	1,899816E+22	1,434721E+21	1,434428E+21	3,799548E+22	2,869149E+21	4,086462E+22
1796	1,899845E+22	1,899837E+22	1,434384E+21	1,434639E+21	3,799682E+22	2,869022E+21	4,086584E+22
1797	1,899896E+22	1,899841E+22	1,434503E+21	1,434317E+21	3,799737E+22	2,868820E+21	4,086619E+22
1798	1,899815E+22	1,899964E+22	1,434547E+21	1,434413E+21	3,799779E+22	2,868960E+21	4,086675E+22
1799	1,899951E+22	1,899903E+22	1,434254E+21	1,434518E+21	3,799854E+22	2,868772E+21	4,086731E+22
1800	1,899938E+22	1,899927E+22	1,434501E+21	1,434218E+21	3,799865E+22	2,868719E+21	4,086737E+22
1801	1,899923E+22	1,899981E+22	1,434367E+21	1,434491E+21	3,799904E+22	2,868858E+21	4,086790E+22
1802	1,900012E+22	1,899882E+22	1,434265E+21	1,434411E+21	3,799894E+22	2,868676E+21	4,086761E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1803	1,899875E+22	1,899941E+22	1,434595E+21	1,434295E+21	3,799816E+22	2,868891E+21	4,086705E+22
1804	1,899866E+22	1,899907E+22	1,434376E+21	1,434652E+21	3,799773E+22	2,869029E+21	4,086675E+22
1805	1,899866E+22	1,899774E+22	1,434527E+21	1,434495E+21	3,799640E+22	2,869023E+21	4,086542E+22
1806	1,899691E+22	1,899800E+22	1,434774E+21	1,434564E+21	3,799491E+22	2,869338E+21	4,086425E+22
1807	1,899735E+22	1,899682E+22	1,434538E+21	1,434821E+21	3,799416E+22	2,869360E+21	4,086352E+22
1808	1,899663E+22	1,899608E+22	1,434825E+21	1,434584E+21	3,799271E+22	2,869410E+21	4,086212E+22
1809	1,899541E+22	1,899646E+22	1,434808E+21	1,434835E+21	3,799186E+22	2,869643E+21	4,086150E+22
1810	1,899616E+22	1,899522E+22	1,434634E+21	1,434894E+21	3,799138E+22	2,869528E+21	4,086091E+22
1811	1,899526E+22	1,899562E+22	1,434935E+21	1,434649E+21	3,799088E+22	2,869584E+21	4,086046E+22
1812	1,899561E+22	1,899610E+22	1,434714E+21	1,434903E+21	3,799171E+22	2,869617E+21	4,086132E+22
1813	1,899671E+22	1,899553E+22	1,434681E+21	1,434690E+21	3,799224E+22	2,869370E+21	4,086161E+22
1814	1,899576E+22	1,899684E+22	1,434875E+21	1,434543E+21	3,799259E+22	2,869418E+21	4,086201E+22
1815	1,899685E+22	1,899699E+22	1,434537E+21	1,434790E+21	3,799384E+22	2,869326E+21	4,086317E+22
1816	1,899728E+22	1,899688E+22	1,434643E+21	1,434478E+21	3,799416E+22	2,869121E+21	4,086328E+22
1817	1,899679E+22	1,899802E+22	1,434666E+21	1,434573E+21	3,799480E+22	2,869239E+21	4,086404E+22
1818	1,899826E+22	1,899747E+22	1,434371E+21	1,434655E+21	3,799573E+22	2,869026E+21	4,086476E+22
1819	1,899798E+22	1,899778E+22	1,434642E+21	1,434354E+21	3,799576E+22	2,868996E+21	4,086475E+22
1820	1,899775E+22	1,899848E+22	1,434541E+21	1,434622E+21	3,799622E+22	2,869163E+21	4,086539E+22
1821	1,899841E+22	1,899746E+22	1,434447E+21	1,434591E+21	3,799586E+22	2,869037E+21	4,086490E+22
1822	1,899684E+22	1,899766E+22	1,434785E+21	1,434485E+21	3,799450E+22	2,869270E+21	4,086377E+22
1823	1,899689E+22	1,899717E+22	1,434576E+21	1,434845E+21	3,799406E+22	2,869422E+21	4,086348E+22
1824	1,899688E+22	1,899582E+22	1,434712E+21	1,434673E+21	3,799270E+22	2,869385E+21	4,086208E+22
1825	1,899526E+22	1,899608E+22	1,434932E+21	1,434742E+21	3,799135E+22	2,869675E+21	4,086102E+22
1826	1,899557E+22	1,899506E+22	1,434684E+21	1,434998E+21	3,799063E+22	2,869682E+21	4,086031E+22
1827	1,899472E+22	1,899437E+22	1,434978E+21	1,434772E+21	3,798909E+22	2,869750E+21	4,085884E+22
1828	1,899372E+22	1,899486E+22	1,434986E+21	1,434989E+21	3,798858E+22	2,869975E+21	4,085855E+22
1829	1,899468E+22	1,899376E+22	1,434806E+21	1,435046E+21	3,798844E+22	2,869853E+21	4,085829E+22
1830	1,899380E+22	1,899405E+22	1,435098E+21	1,434772E+21	3,798785E+22	2,869871E+21	4,085772E+22
1831	1,899423E+22	1,899464E+22	1,434887E+21	1,435029E+21	3,798887E+22	2,869916E+21	4,085878E+22
1832	1,899513E+22	1,899419E+22	1,434824E+21	1,434826E+21	3,798932E+22	2,869650E+21	4,085897E+22
1833	1,899425E+22	1,899537E+22	1,434992E+21	1,434710E+21	3,798962E+22	2,869701E+21	4,085932E+22
1834	1,899537E+22	1,899550E+22	1,434650E+21	1,434946E+21	3,799086E+22	2,869597E+21	4,086046E+22
1835	1,899586E+22	1,899534E+22	1,434769E+21	1,434626E+21	3,799119E+22	2,869395E+21	4,086059E+22
1836	1,899555E+22	1,899660E+22	1,434823E+21	1,434685E+21	3,799215E+22	2,869508E+21	4,086166E+22
1837	1,899691E+22	1,899617E+22	1,434533E+21	1,434790E+21	3,799308E+22	2,869323E+21	4,086241E+22
1838	1,899629E+22	1,899627E+22	1,434803E+21	1,434509E+21	3,799256E+22	2,869312E+21	4,086187E+22
1839	1,899600E+22	1,899687E+22	1,434722E+21	1,434807E+21	3,799287E+22	2,869529E+21	4,086240E+22
1840	1,899655E+22	1,899572E+22	1,434620E+21	1,434781E+21	3,799228E+22	2,869401E+21	4,086168E+22
1841	1,899524E+22	1,899577E+22	1,434942E+21	1,434678E+21	3,799100E+22	2,869620E+21	4,086062E+22
1842	1,899531E+22	1,899534E+22	1,434733E+21	1,435009E+21	3,799065E+22	2,869742E+21	4,086039E+22
1843	1,899514E+22	1,899405E+22	1,434883E+21	1,434845E+21	3,798919E+22	2,869728E+21	4,085891E+22
1844	1,899351E+22	1,899447E+22	1,435119E+21	1,434903E+21	3,798798E+22	2,870022E+21	4,085801E+22
1845	1,899374E+22	1,899347E+22	1,434869E+21	1,435189E+21	3,798720E+22	2,870058E+21	4,085726E+22
1846	1,899286E+22	1,899253E+22	1,435156E+21	1,434952E+21	3,798539E+22	2,870109E+21	4,085550E+22
1847	1,899219E+22	1,899308E+22	1,435170E+21	1,435150E+21	3,798527E+22	2,870319E+21	4,085559E+22
1848	1,899314E+22	1,899215E+22	1,434973E+21	1,435178E+21	3,798529E+22	2,870151E+21	4,085545E+22
1849	1,899241E+22	1,899253E+22	1,435233E+21	1,434912E+21	3,798494E+22	2,870145E+21	4,085509E+22
1850	1,899269E+22	1,899328E+22	1,435009E+21	1,435163E+21	3,798597E+22	2,870172E+21	4,085614E+22
1851	1,899345E+22	1,899281E+22	1,434950E+21	1,434982E+21	3,798627E+22	2,869932E+21	4,085620E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1852	1,899280E+22	1,899400E+22	1,435137E+21	1,434842E+21	3,798680E+22	2,869980E+21	4,085678E+22
1853	1,899403E+22	1,899416E+22	1,434795E+21	1,435083E+21	3,798819E+22	2,869878E+21	4,085807E+22
1854	1,899448E+22	1,899381E+22	1,434915E+21	1,434755E+21	3,798830E+22	2,869670E+21	4,085797E+22
1855	1,899425E+22	1,899510E+22	1,434988E+21	1,434827E+21	3,798935E+22	2,869815E+21	4,085917E+22
1856	1,899532E+22	1,899475E+22	1,434688E+21	1,434952E+21	3,799007E+22	2,869640E+21	4,085971E+22
1857	1,899474E+22	1,899464E+22	1,434938E+21	1,434710E+21	3,798938E+22	2,869648E+21	4,085903E+22
1858	1,899441E+22	1,899516E+22	1,434865E+21	1,434985E+21	3,798957E+22	2,869850E+21	4,085942E+22
1859	1,899494E+22	1,899398E+22	1,434780E+21	1,434954E+21	3,798891E+22	2,869734E+21	4,085865E+22
1860	1,899369E+22	1,899409E+22	1,435135E+21	1,434816E+21	3,798778E+22	2,869951E+21	4,085773E+22
1861	1,899355E+22	1,899379E+22	1,434930E+21	1,435163E+21	3,798734E+22	2,870093E+21	4,085743E+22
1862	1,899309E+22	1,899226E+22	1,435074E+21	1,435024E+21	3,798534E+22	2,870098E+21	4,085544E+22
1863	1,899155E+22	1,899258E+22	1,435319E+21	1,435098E+21	3,798413E+22	2,870417E+21	4,085455E+22
1864	1,899183E+22	1,899164E+22	1,435051E+21	1,435374E+21	3,798347E+22	2,870425E+21	4,085390E+22
1865	1,899135E+22	1,899068E+22	1,435300E+21	1,435133E+21	3,798203E+22	2,870433E+21	4,085246E+22
1866	1,899078E+22	1,899145E+22	1,435309E+21	1,435289E+21	3,798223E+22	2,870598E+21	4,085282E+22
1867	1,899162E+22	1,899072E+22	1,435114E+21	1,435322E+21	3,798234E+22	2,870437E+21	4,085278E+22
1868	1,899088E+22	1,899126E+22	1,435383E+21	1,435049E+21	3,798214E+22	2,870432E+21	4,085257E+22
1869	1,899108E+22	1,899200E+22	1,435158E+21	1,435317E+21	3,798308E+22	2,870474E+21	4,085356E+22
1870	1,899184E+22	1,899121E+22	1,435096E+21	1,435135E+21	3,798305E+22	2,870231E+21	4,085328E+22
1871	1,899153E+22	1,899238E+22	1,435291E+21	1,434983E+21	3,798390E+22	2,870274E+21	4,085418E+22
1872	1,899271E+22	1,899269E+22	1,434942E+21	1,435209E+21	3,798540E+22	2,870151E+21	4,085555E+22
1873	1,899323E+22	1,899234E+22	1,435031E+21	1,434907E+21	3,798557E+22	2,869939E+21	4,085551E+22
1874	1,899280E+22	1,899372E+22	1,435105E+21	1,434977E+21	3,798652E+22	2,870083E+21	4,085660E+22
1875	1,899367E+22	1,899330E+22	1,434830E+21	1,435121E+21	3,798697E+22	2,869950E+21	4,085692E+22
1876	1,899322E+22	1,899316E+22	1,435110E+21	1,434861E+21	3,798638E+22	2,869971E+21	4,085635E+22
1877	1,899285E+22	1,899365E+22	1,435048E+21	1,435128E+21	3,798650E+22	2,870176E+21	4,085667E+22
1878	1,899315E+22	1,899221E+22	1,434978E+21	1,435107E+21	3,798536E+22	2,870085E+21	4,085544E+22
1879	1,899193E+22	1,899229E+22	1,435338E+21	1,434989E+21	3,798422E+22	2,870327E+21	4,085455E+22
1880	1,899151E+22	1,899200E+22	1,435119E+21	1,435358E+21	3,798351E+22	2,870476E+21	4,085399E+22
1881	1,899124E+22	1,899027E+22	1,435228E+21	1,435251E+21	3,798151E+22	2,870479E+21	4,085199E+22
1882	1,898989E+22	1,899065E+22	1,435462E+21	1,435289E+21	3,798054E+22	2,870751E+21	4,085129E+22
1883	1,899028E+22	1,898986E+22	1,435206E+21	1,435543E+21	3,798014E+22	2,870749E+21	4,085089E+22
1884	1,898995E+22	1,898919E+22	1,435467E+21	1,435264E+21	3,797913E+22	2,870731E+21	4,084986E+22
1885	1,898920E+22	1,899016E+22	1,435474E+21	1,435415E+21	3,797935E+22	2,870888E+21	4,085024E+22
1886	1,898977E+22	1,898926E+22	1,435279E+21	1,435468E+21	3,797903E+22	2,870747E+21	4,084978E+22
1887	1,898922E+22	1,898968E+22	1,435549E+21	1,435204E+21	3,797890E+22	2,870754E+21	4,084965E+22
1888	1,898948E+22	1,899045E+22	1,435310E+21	1,435460E+21	3,797993E+22	2,870770E+21	4,085070E+22
1889	1,899061E+22	1,898959E+22	1,435210E+21	1,435289E+21	3,798020E+22	2,870499E+21	4,085070E+22
1890	1,899040E+22	1,899091E+22	1,435399E+21	1,435110E+21	3,798131E+22	2,870509E+21	4,085182E+22
1891	1,899142E+22	1,899140E+22	1,435066E+21	1,435351E+21	3,798282E+22	2,870418E+21	4,085324E+22
1892	1,899186E+22	1,899114E+22	1,435173E+21	1,435052E+21	3,798300E+22	2,870225E+21	4,085322E+22
1893	1,899125E+22	1,899243E+22	1,435263E+21	1,435126E+21	3,798368E+22	2,870389E+21	4,085407E+22
1894	1,899196E+22	1,899166E+22	1,435006E+21	1,435273E+21	3,798362E+22	2,870278E+21	4,085390E+22
1895	1,899165E+22	1,899138E+22	1,435306E+21	1,435016E+21	3,798303E+22	2,870321E+21	4,085335E+22
1896	1,899105E+22	1,899194E+22	1,435243E+21	1,435281E+21	3,798299E+22	2,870524E+21	4,085352E+22
1897	1,899137E+22	1,899034E+22	1,435136E+21	1,435308E+21	3,798171E+22	2,870444E+21	4,085215E+22
1898	1,899007E+22	1,899042E+22	1,435480E+21	1,435192E+21	3,798049E+22	2,870671E+21	4,085116E+22
1899	1,898965E+22	1,899012E+22	1,435275E+21	1,435565E+21	3,797977E+22	2,870840E+21	4,085061E+22
1900	1,898963E+22	1,898854E+22	1,435394E+21	1,435426E+21	3,797817E+22	2,870820E+21	4,084899E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1901	1,898838E+22	1,898908E+22	1,435632E+21	1,435430E+21	3,797746E+22	2,871062E+21	4,084852E+22
1902	1,898860E+22	1,898824E+22	1,435398E+21	1,435680E+21	3,797684E+22	2,871078E+21	4,084792E+22
1903	1,898830E+22	1,898766E+22	1,435659E+21	1,435414E+21	3,797596E+22	2,871073E+21	4,084703E+22
1904	1,898732E+22	1,898868E+22	1,435649E+21	1,435573E+21	3,797600E+22	2,871222E+21	4,084722E+22
1905	1,898811E+22	1,898754E+22	1,435412E+21	1,435658E+21	3,797565E+22	2,871070E+21	4,084672E+22
1906	1,898784E+22	1,898798E+22	1,435659E+21	1,435360E+21	3,797582E+22	2,871019E+21	4,084683E+22
1907	1,898823E+22	1,898891E+22	1,435434E+21	1,435595E+21	3,797714E+22	2,871028E+21	4,084817E+22
1908	1,898948E+22	1,898837E+22	1,435342E+21	1,435402E+21	3,797785E+22	2,870744E+21	4,084859E+22
1909	1,898910E+22	1,898982E+22	1,435531E+21	1,435223E+21	3,797892E+22	2,870754E+21	4,084968E+22
1910	1,898975E+22	1,899008E+22	1,435228E+21	1,435488E+21	3,797983E+22	2,870716E+21	4,085054E+22
1911	1,899028E+22	1,898967E+22	1,435345E+21	1,435206E+21	3,797995E+22	2,870551E+21	4,085050E+22
1912	1,898957E+22	1,899087E+22	1,435438E+21	1,435271E+21	3,798043E+22	2,870709E+21	4,085114E+22
1913	1,899045E+22	1,898987E+22	1,435156E+21	1,435445E+21	3,798032E+22	2,870601E+21	4,085092E+22
1914	1,899014E+22	1,898961E+22	1,435447E+21	1,435184E+21	3,797975E+22	2,870632E+21	4,085038E+22
1915	1,898934E+22	1,899022E+22	1,435395E+21	1,435471E+21	3,797956E+22	2,870866E+21	4,085043E+22
1916	1,898964E+22	1,898871E+22	1,435296E+21	1,435507E+21	3,797835E+22	2,870803E+21	4,084915E+22
1917	1,898835E+22	1,898872E+22	1,435640E+21	1,435374E+21	3,797706E+22	2,871014E+21	4,084808E+22
1918	1,898787E+22	1,898826E+22	1,435468E+21	1,435733E+21	3,797614E+22	2,871201E+21	4,084734E+22
1919	1,898805E+22	1,898679E+22	1,435599E+21	1,435577E+21	3,797484E+22	2,871176E+21	4,084601E+22
1920	1,898659E+22	1,898750E+22	1,435835E+21	1,435567E+21	3,797409E+22	2,871403E+21	4,084549E+22
1921	1,898680E+22	1,898656E+22	1,435564E+21	1,435858E+21	3,797336E+22	2,871422E+21	4,084478E+22
1922	1,898649E+22	1,898597E+22	1,435798E+21	1,435593E+21	3,797246E+22	2,871391E+21	4,084385E+22
1923	1,898560E+22	1,898699E+22	1,435787E+21	1,435748E+21	3,797260E+22	2,871536E+21	4,084413E+22
1924	1,898673E+22	1,898602E+22	1,435545E+21	1,435805E+21	3,797274E+22	2,871350E+21	4,084409E+22
1925	1,898662E+22	1,898662E+22	1,435784E+21	1,435473E+21	3,797324E+22	2,871257E+21	4,084450E+22
1926	1,898689E+22	1,898755E+22	1,435589E+21	1,435711E+21	3,797444E+22	2,871300E+21	4,084574E+22
1927	1,898811E+22	1,898711E+22	1,435500E+21	1,435534E+21	3,797522E+22	2,871035E+21	4,084625E+22
1928	1,898746E+22	1,898856E+22	1,435690E+21	1,435370E+21	3,797602E+22	2,871059E+21	4,084708E+22
1929	1,898822E+22	1,898846E+22	1,435364E+21	1,435663E+21	3,797669E+22	2,871027E+21	4,084771E+22
1930	1,898888E+22	1,898798E+22	1,435468E+21	1,435369E+21	3,797686E+22	2,870838E+21	4,084769E+22
1931	1,898814E+22	1,898919E+22	1,435580E+21	1,435426E+21	3,797733E+22	2,871006E+21	4,084834E+22
1932	1,898897E+22	1,898837E+22	1,435309E+21	1,435597E+21	3,797734E+22	2,870907E+21	4,084825E+22
1933	1,898848E+22	1,898813E+22	1,435598E+21	1,435340E+21	3,797661E+22	2,870937E+21	4,084755E+22
1934	1,898741E+22	1,898848E+22	1,435585E+21	1,435646E+21	3,797590E+22	2,871231E+21	4,084713E+22
1935	1,898785E+22	1,898694E+22	1,435497E+21	1,435685E+21	3,797479E+22	2,871183E+21	4,084597E+22
1936	1,898655E+22	1,898698E+22	1,435839E+21	1,435538E+21	3,797353E+22	2,871377E+21	4,084490E+22
1937	1,898622E+22	1,898639E+22	1,435652E+21	1,435911E+21	3,797261E+22	2,871563E+21	4,084417E+22
1938	1,898640E+22	1,898505E+22	1,435763E+21	1,435754E+21	3,797145E+22	2,871517E+21	4,084297E+22
1939	1,898477E+22	1,898584E+22	1,435997E+21	1,435753E+21	3,797060E+22	2,871750E+21	4,084235E+22
1940	1,898502E+22	1,898500E+22	1,435721E+21	1,436042E+21	3,797001E+22	2,871763E+21	4,084178E+22
1941	1,898487E+22	1,898436E+22	1,435933E+21	1,435749E+21	3,796923E+22	2,871683E+21	4,084091E+22
1942	1,898406E+22	1,898527E+22	1,435951E+21	1,435885E+21	3,796932E+22	2,871836E+21	4,084116E+22
1943	1,898543E+22	1,898455E+22	1,435710E+21	1,435925E+21	3,796998E+22	2,871635E+21	4,084161E+22
1944	1,898520E+22	1,898535E+22	1,435937E+21	1,435591E+21	3,797055E+22	2,871528E+21	4,084208E+22
1945	1,898544E+22	1,898615E+22	1,435722E+21	1,435865E+21	3,797158E+22	2,871587E+21	4,084317E+22
1946	1,898664E+22	1,898570E+22	1,435616E+21	1,435693E+21	3,797234E+22	2,871309E+21	4,084364E+22
1947	1,898599E+22	1,898705E+22	1,435816E+21	1,435525E+21	3,797304E+22	2,871341E+21	4,084438E+22
1948	1,898689E+22	1,898705E+22	1,435500E+21	1,435798E+21	3,797393E+22	2,871298E+21	4,084523E+22
1949	1,898755E+22	1,898655E+22	1,435607E+21	1,435491E+21	3,797411E+22	2,871098E+21	4,084520E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1950	1,898655E+22	1,898763E+22	1,435763E+21	1,435569E+21	3,797418E+22	2,871332E+21	4,084551E+22
1951	1,898726E+22	1,898686E+22	1,435500E+21	1,435768E+21	3,797412E+22	2,871268E+21	4,084539E+22
1952	1,898658E+22	1,898650E+22	1,435783E+21	1,435530E+21	3,797308E+22	2,871313E+21	4,084439E+22
1953	1,898566E+22	1,898650E+22	1,435757E+21	1,435854E+21	3,797216E+22	2,871610E+21	4,084377E+22
1954	1,898624E+22	1,898500E+22	1,435659E+21	1,435874E+21	3,797124E+22	2,871533E+21	4,084277E+22
1955	1,898491E+22	1,898517E+22	1,436012E+21	1,435714E+21	3,797008E+22	2,871727E+21	4,084180E+22
1956	1,898452E+22	1,898479E+22	1,435829E+21	1,436078E+21	3,796932E+22	2,871906E+21	4,084122E+22
1957	1,898455E+22	1,898348E+22	1,435924E+21	1,435919E+21	3,796803E+22	2,871843E+21	4,083987E+22
1958	1,898279E+22	1,898406E+22	1,436180E+21	1,435926E+21	3,796685E+22	2,872106E+21	4,083896E+22
1959	1,898327E+22	1,898327E+22	1,435901E+21	1,436199E+21	3,796654E+22	2,872100E+21	4,083864E+22
1960	1,898328E+22	1,898276E+22	1,436096E+21	1,435888E+21	3,796604E+22	2,871984E+21	4,083802E+22
1961	1,898274E+22	1,898359E+22	1,436096E+21	1,436031E+21	3,796633E+22	2,872127E+21	4,083846E+22
1962	1,898415E+22	1,898313E+22	1,435835E+21	1,436071E+21	3,796728E+22	2,871906E+21	4,083919E+22
1963	1,898379E+22	1,898404E+22	1,436058E+21	1,435749E+21	3,796783E+22	2,871807E+21	4,083964E+22
1964	1,898403E+22	1,898488E+22	1,435850E+21	1,436017E+21	3,796891E+22	2,871866E+21	4,084077E+22
1965	1,898529E+22	1,898435E+22	1,435735E+21	1,435818E+21	3,796963E+22	2,871553E+21	4,084119E+22
1966	1,898457E+22	1,898550E+22	1,435979E+21	1,435647E+21	3,797007E+22	2,871626E+21	4,084170E+22
1967	1,898545E+22	1,898564E+22	1,435680E+21	1,435916E+21	3,797109E+22	2,871596E+21	4,084269E+22
1968	1,898589E+22	1,898516E+22	1,435783E+21	1,435638E+21	3,797105E+22	2,871421E+21	4,084247E+22
1969	1,898480E+22	1,898590E+22	1,435925E+21	1,435763E+21	3,797071E+22	2,871688E+21	4,084239E+22
1970	1,898554E+22	1,898507E+22	1,435650E+21	1,435975E+21	3,797062E+22	2,871624E+21	4,084224E+22
1971	1,898491E+22	1,898463E+22	1,435935E+21	1,435728E+21	3,796955E+22	2,871662E+21	4,084121E+22
1972	1,898413E+22	1,898478E+22	1,435920E+21	1,436023E+21	3,796892E+22	2,871944E+21	4,084086E+22
1973	1,898470E+22	1,898338E+22	1,435822E+21	1,436020E+21	3,796808E+22	2,871842E+21	4,083992E+22
1974	1,898307E+22	1,898346E+22	1,436216E+21	1,435879E+21	3,796653E+22	2,872094E+21	4,083862E+22
1975	1,898256E+22	1,898321E+22	1,436036E+21	1,436247E+21	3,796577E+22	2,872283E+21	4,083805E+22
1976	1,898254E+22	1,898178E+22	1,436115E+21	1,436105E+21	3,796432E+22	2,872220E+21	4,083654E+22
1977	1,898106E+22	1,898203E+22	1,436343E+21	1,436114E+21	3,796310E+22	2,872457E+21	4,083555E+22
1978	1,898183E+22	1,898144E+22	1,436042E+21	1,436361E+21	3,796327E+22	2,872404E+21	4,083568E+22
1979	1,898191E+22	1,898117E+22	1,436228E+21	1,436034E+21	3,796308E+22	2,872262E+21	4,083534E+22
1980	1,898140E+22	1,898231E+22	1,436228E+21	1,436168E+21	3,796371E+22	2,872396E+21	4,083610E+22
1981	1,898269E+22	1,898194E+22	1,435957E+21	1,436194E+21	3,796464E+22	2,872150E+21	4,083679E+22
1982	1,898221E+22	1,898266E+22	1,436214E+21	1,435886E+21	3,796486E+22	2,872100E+21	4,083696E+22
1983	1,898254E+22	1,898354E+22	1,436017E+21	1,436132E+21	3,796608E+22	2,872149E+21	4,083823E+22
1984	1,898380E+22	1,898298E+22	1,435896E+21	1,435947E+21	3,796677E+22	2,871843E+21	4,083862E+22
1985	1,898318E+22	1,898382E+22	1,436131E+21	1,435805E+21	3,796701E+22	2,871935E+21	4,083894E+22
1986	1,898399E+22	1,898406E+22	1,435821E+21	1,436092E+21	3,796805E+22	2,871913E+21	4,083996E+22
1987	1,898426E+22	1,898357E+22	1,435917E+21	1,435840E+21	3,796783E+22	2,871757E+21	4,083959E+22
1988	1,898327E+22	1,898424E+22	1,436063E+21	1,435958E+21	3,796751E+22	2,872021E+21	4,083953E+22
1989	1,898405E+22	1,898337E+22	1,435792E+21	1,436130E+21	3,796742E+22	2,871922E+21	4,083935E+22
1990	1,898333E+22	1,898288E+22	1,436121E+21	1,435881E+21	3,796621E+22	2,872002E+21	4,083821E+22
1991	1,898243E+22	1,898322E+22	1,436133E+21	1,436155E+21	3,796565E+22	2,872288E+21	4,083794E+22
1992	1,898272E+22	1,898184E+22	1,436033E+21	1,436186E+21	3,796456E+22	2,872219E+21	4,083678E+22
1993	1,898105E+22	1,898153E+22	1,436406E+21	1,436080E+21	3,796258E+22	2,872486E+21	4,083507E+22
1994	1,898063E+22	1,898126E+22	1,436204E+21	1,436446E+21	3,796189E+22	2,872651E+21	4,083454E+22
1995	1,898079E+22	1,897987E+22	1,436264E+21	1,436293E+21	3,796066E+22	2,872557E+21	4,083321E+22
1996	1,897965E+22	1,898032E+22	1,436482E+21	1,436272E+21	3,795997E+22	2,872754E+21	4,083272E+22
1997	1,898052E+22	1,897999E+22	1,436177E+21	1,436485E+21	3,796051E+22	2,872662E+21	4,083317E+22
1998	1,898043E+22	1,897982E+22	1,436386E+21	1,436175E+21	3,796025E+22	2,872561E+21	4,083281E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1999	1,897983E+22	1,898113E+22	1,436397E+21	1,436298E+21	3,796096E+22	2,872695E+21	4,083365E+22
2000	1,898108E+22	1,898066E+22	1,436117E+21	1,436339E+21	3,796174E+22	2,872456E+21	4,083419E+22
2001	1,898077E+22	1,898097E+22	1,436357E+21	1,436040E+21	3,796174E+22	2,872397E+21	4,083413E+22
2002	1,898123E+22	1,898196E+22	1,436149E+21	1,436273E+21	3,796319E+22	2,872422E+21	4,083561E+22
2003	1,898242E+22	1,898146E+22	1,436024E+21	1,436098E+21	3,796388E+22	2,872123E+21	4,083600E+22
2004	1,898179E+22	1,898240E+22	1,436254E+21	1,435969E+21	3,796418E+22	2,872223E+21	4,083640E+22
2005	1,898250E+22	1,898262E+22	1,435944E+21	1,436243E+21	3,796512E+22	2,872187E+21	4,083731E+22
2006	1,898264E+22	1,898194E+22	1,436077E+21	1,436003E+21	3,796458E+22	2,872081E+21	4,083666E+22
2007	1,898169E+22	1,898272E+22	1,436248E+21	1,436086E+21	3,796441E+22	2,872334E+21	4,083675E+22
2008	1,898240E+22	1,898185E+22	1,435990E+21	1,436273E+21	3,796425E+22	2,872263E+21	4,083651E+22
2009	1,898162E+22	1,898104E+22	1,436320E+21	1,436058E+21	3,796266E+22	2,872378E+21	4,083504E+22
2010	1,898056E+22	1,898147E+22	1,436319E+21	1,436348E+21	3,796203E+22	2,872667E+21	4,083469E+22
2011	1,898068E+22	1,897999E+22	1,436205E+21	1,436407E+21	3,796068E+22	2,872613E+21	4,083329E+22
2012	1,897925E+22	1,897957E+22	1,436559E+21	1,436292E+21	3,795882E+22	2,872851E+21	4,083167E+22
2013	1,897904E+22	1,897937E+22	1,436346E+21	1,436604E+21	3,795841E+22	2,872950E+21	4,083136E+22
2014	1,897925E+22	1,897811E+22	1,436431E+21	1,436443E+21	3,795736E+22	2,872874E+21	4,083023E+22
2015	1,897813E+22	1,897894E+22	1,436660E+21	1,436392E+21	3,795707E+22	2,873051E+21	4,083012E+22
2016	1,897885E+22	1,897875E+22	1,436356E+21	1,436632E+21	3,795760E+22	2,872988E+21	4,083059E+22
2017	1,897877E+22	1,897826E+22	1,436543E+21	1,436347E+21	3,795703E+22	2,872889E+21	4,082992E+22
2018	1,897828E+22	1,897957E+22	1,436537E+21	1,436450E+21	3,795785E+22	2,872987E+21	4,083084E+22
2019	1,897962E+22	1,897911E+22	1,436243E+21	1,436484E+21	3,795873E+22	2,872727E+21	4,083146E+22
2020	1,897958E+22	1,897946E+22	1,436470E+21	1,436176E+21	3,795904E+22	2,872647E+21	4,083169E+22
2021	1,898000E+22	1,898058E+22	1,436267E+21	1,436385E+21	3,796058E+22	2,872652E+21	4,083323E+22
2022	1,898095E+22	1,898013E+22	1,436169E+21	1,436249E+21	3,796108E+22	2,872418E+21	4,083350E+22
2023	1,898023E+22	1,898111E+22	1,436414E+21	1,436112E+21	3,796134E+22	2,872526E+21	4,083387E+22
2024	1,898089E+22	1,898118E+22	1,436121E+21	1,436402E+21	3,796207E+22	2,872523E+21	4,083459E+22
2025	1,898111E+22	1,898012E+22	1,436248E+21	1,436170E+21	3,796123E+22	2,872418E+21	4,083365E+22
2026	1,898014E+22	1,898099E+22	1,436421E+21	1,436239E+21	3,796114E+22	2,872660E+21	4,083380E+22
2027	1,898061E+22	1,898017E+22	1,436168E+21	1,436447E+21	3,796079E+22	2,872615E+21	4,083340E+22
2028	1,897979E+22	1,897931E+22	1,436484E+21	1,436262E+21	3,795909E+22	2,872746E+21	4,083184E+22
2029	1,897866E+22	1,897967E+22	1,436476E+21	1,436530E+21	3,795833E+22	2,873005E+21	4,083134E+22
2030	1,897879E+22	1,897808E+22	1,436383E+21	1,436601E+21	3,795687E+22	2,872984E+21	4,082986E+22
2031	1,897756E+22	1,897785E+22	1,436736E+21	1,436439E+21	3,795541E+22	2,873176E+21	4,082858E+22
2032	1,897747E+22	1,897776E+22	1,436536E+21	1,436753E+21	3,795523E+22	2,873289E+21	4,082852E+22
2033	1,897768E+22	1,897641E+22	1,436608E+21	1,436609E+21	3,795409E+22	2,873216E+21	4,082731E+22
2034	1,897654E+22	1,897746E+22	1,436818E+21	1,436558E+21	3,795400E+22	2,873375E+21	4,082737E+22
2035	1,897715E+22	1,897725E+22	1,436505E+21	1,436806E+21	3,795440E+22	2,873311E+21	4,082771E+22
2036	1,897731E+22	1,897666E+22	1,436666E+21	1,436513E+21	3,795397E+22	2,873179E+21	4,082715E+22
2037	1,897700E+22	1,897804E+22	1,436649E+21	1,436558E+21	3,795504E+22	2,873207E+21	4,082824E+22
2038	1,897827E+22	1,897767E+22	1,436383E+21	1,436600E+21	3,795593E+22	2,872983E+21	4,082892E+22
2039	1,897818E+22	1,897827E+22	1,436621E+21	1,436279E+21	3,795645E+22	2,872900E+21	4,082935E+22
2040	1,897845E+22	1,897938E+22	1,436432E+21	1,436526E+21	3,795784E+22	2,872958E+21	4,083079E+22
2041	1,897933E+22	1,897856E+22	1,436326E+21	1,436422E+21	3,795789E+22	2,872748E+21	4,083064E+22
2042	1,897872E+22	1,897950E+22	1,436561E+21	1,436275E+21	3,795822E+22	2,872836E+21	4,083106E+22
2043	1,897934E+22	1,897953E+22	1,436275E+21	1,436561E+21	3,795887E+22	2,872836E+21	4,083171E+22
2044	1,897969E+22	1,897844E+22	1,436395E+21	1,436344E+21	3,795814E+22	2,872739E+21	4,083087E+22
2045	1,897858E+22	1,897937E+22	1,436573E+21	1,436390E+21	3,795796E+22	2,872963E+21	4,083092E+22
2046	1,897874E+22	1,897853E+22	1,436348E+21	1,436641E+21	3,795727E+22	2,872989E+21	4,083026E+22
2047	1,897787E+22	1,897765E+22	1,436671E+21	1,436445E+21	3,795551E+22	2,873116E+21	4,082863E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2048	1,897683E+22	1,897784E+22	1,436672E+21	1,436715E+21	3,795467E+22	2,873387E+21	4,082806E+22
2049	1,897710E+22	1,897604E+22	1,436567E+21	1,436783E+21	3,795314E+22	2,873350E+21	4,082649E+22
2050	1,897600E+22	1,897603E+22	1,436907E+21	1,436598E+21	3,795203E+22	2,873505E+21	4,082554E+22
2051	1,897575E+22	1,897616E+22	1,436712E+21	1,436918E+21	3,795191E+22	2,873630E+21	4,082554E+22
2052	1,897604E+22	1,897487E+22	1,436752E+21	1,436791E+21	3,795091E+22	2,873543E+21	4,082446E+22
2053	1,897490E+22	1,897592E+22	1,436951E+21	1,436695E+21	3,795083E+22	2,873646E+21	4,082447E+22
2054	1,897553E+22	1,897573E+22	1,436657E+21	1,436944E+21	3,795126E+22	2,873601E+21	4,082486E+22
2055	1,897586E+22	1,897532E+22	1,436815E+21	1,436616E+21	3,795118E+22	2,873430E+21	4,082461E+22
2056	1,897562E+22	1,897672E+22	1,436813E+21	1,436675E+21	3,795234E+22	2,873489E+21	4,082583E+22
2057	1,897681E+22	1,897621E+22	1,436537E+21	1,436751E+21	3,795302E+22	2,873288E+21	4,082631E+22
2058	1,897672E+22	1,897688E+22	1,436753E+21	1,436445E+21	3,795360E+22	2,873198E+21	4,082680E+22
2059	1,897691E+22	1,897789E+22	1,436574E+21	1,436703E+21	3,795480E+22	2,873277E+21	4,082807E+22
2060	1,897802E+22	1,897692E+22	1,436444E+21	1,436599E+21	3,795494E+22	2,873044E+21	4,082798E+22
2061	1,897746E+22	1,897792E+22	1,436683E+21	1,436400E+21	3,795538E+22	2,873083E+21	4,082846E+22
2062	1,897785E+22	1,897802E+22	1,436440E+21	1,436701E+21	3,795587E+22	2,873141E+21	4,082901E+22
2063	1,897798E+22	1,897709E+22	1,436577E+21	1,436487E+21	3,795507E+22	2,873064E+21	4,082814E+22
2064	1,897671E+22	1,897785E+22	1,436773E+21	1,436571E+21	3,795455E+22	2,873343E+21	4,082789E+22
2065	1,897675E+22	1,897659E+22	1,436545E+21	1,436844E+21	3,795333E+22	2,873389E+21	4,082672E+22
2066	1,897608E+22	1,897569E+22	1,436846E+21	1,436630E+21	3,795177E+22	2,873477E+21	4,082524E+22
2067	1,897511E+22	1,897591E+22	1,436852E+21	1,436886E+21	3,795102E+22	2,873738E+21	4,082475E+22
2068	1,897556E+22	1,897421E+22	1,436727E+21	1,436965E+21	3,794977E+22	2,873692E+21	4,082346E+22
2069	1,897443E+22	1,897445E+22	1,437052E+21	1,436751E+21	3,794887E+22	2,873803E+21	4,082268E+22
2070	1,897395E+22	1,897466E+22	1,436885E+21	1,437095E+21	3,794861E+22	2,873981E+21	4,082259E+22
2071	1,897427E+22	1,897346E+22	1,436923E+21	1,436943E+21	3,794773E+22	2,873866E+21	4,082159E+22
2072	1,897332E+22	1,897438E+22	1,437122E+21	1,436839E+21	3,794770E+22	2,873961E+21	4,082166E+22
2073	1,897399E+22	1,897401E+22	1,436817E+21	1,437081E+21	3,794800E+22	2,873899E+21	4,082190E+22
2074	1,897446E+22	1,897380E+22	1,436954E+21	1,436749E+21	3,794826E+22	2,873702E+21	4,082196E+22
2075	1,897411E+22	1,897529E+22	1,436957E+21	1,436827E+21	3,794940E+22	2,873784E+21	4,082318E+22
2076	1,897542E+22	1,897477E+22	1,436651E+21	1,436934E+21	3,795018E+22	2,873585E+21	4,082377E+22
2077	1,897541E+22	1,897543E+22	1,436854E+21	1,436589E+21	3,795084E+22	2,873443E+21	4,082428E+22
2078	1,897556E+22	1,897645E+22	1,436710E+21	1,436843E+21	3,795201E+22	2,873553E+21	4,082556E+22
2079	1,897668E+22	1,897565E+22	1,436596E+21	1,436708E+21	3,795233E+22	2,873304E+21	4,082563E+22
2080	1,897604E+22	1,897655E+22	1,436868E+21	1,436530E+21	3,795259E+22	2,873398E+21	4,082599E+22
2081	1,897609E+22	1,897646E+22	1,436634E+21	1,436866E+21	3,795255E+22	2,873500E+21	4,082605E+22
2082	1,897614E+22	1,897542E+22	1,436758E+21	1,436683E+21	3,795156E+22	2,873441E+21	4,082500E+22
2083	1,897477E+22	1,897593E+22	1,436962E+21	1,436777E+21	3,795070E+22	2,873738E+21	4,082444E+22
2084	1,897510E+22	1,897454E+22	1,436698E+21	1,437052E+21	3,794964E+22	2,873750E+21	4,082339E+22
2085	1,897455E+22	1,897376E+22	1,436983E+21	1,436784E+21	3,794831E+22	2,873768E+21	4,082208E+22
2086	1,897344E+22	1,897422E+22	1,437028E+21	1,437048E+21	3,794766E+22	2,874076E+21	4,082173E+22
2087	1,897376E+22	1,897283E+22	1,436911E+21	1,437117E+21	3,794659E+22	2,874028E+21	4,082062E+22
2088	1,897259E+22	1,897297E+22	1,437247E+21	1,436923E+21	3,794556E+22	2,874170E+21	4,081973E+22
2089	1,897204E+22	1,897292E+22	1,437076E+21	1,437265E+21	3,794496E+22	2,874341E+21	4,081930E+22
2090	1,897261E+22	1,897174E+22	1,437082E+21	1,437098E+21	3,794436E+22	2,874180E+21	4,081854E+22
2091	1,897178E+22	1,897268E+22	1,437278E+21	1,436982E+21	3,794446E+22	2,874259E+21	4,081872E+22
2092	1,897268E+22	1,897241E+22	1,436939E+21	1,437241E+21	3,794509E+22	2,874180E+21	4,081927E+22
2093	1,897318E+22	1,897242E+22	1,437050E+21	1,436888E+21	3,794560E+22	2,873939E+21	4,081954E+22
2094	1,897271E+22	1,897398E+22	1,437085E+21	1,436991E+21	3,794669E+22	2,874077E+21	4,082076E+22
2095	1,897404E+22	1,897356E+22	1,436791E+21	1,437065E+21	3,794760E+22	2,873857E+21	4,082146E+22
2096	1,897418E+22	1,897409E+22	1,437007E+21	1,436714E+21	3,794827E+22	2,873721E+21	4,082199E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2097	1,897413E+22	1,897492E+22	1,436884E+21	1,436959E+21	3,794905E+22	2,873843E+21	4,082289E+22
2098	1,897515E+22	1,897421E+22	1,436767E+21	1,436843E+21	3,794936E+22	2,873610E+21	4,082297E+22
2099	1,897424E+22	1,897498E+22	1,437051E+21	1,436702E+21	3,794922E+22	2,873753E+21	4,082297E+22
2100	1,897427E+22	1,897466E+22	1,436789E+21	1,437076E+21	3,794893E+22	2,873865E+21	4,082280E+22
2101	1,897442E+22	1,897355E+22	1,436891E+21	1,436869E+21	3,794798E+22	2,873760E+21	4,082174E+22
2102	1,897310E+22	1,897404E+22	1,437121E+21	1,436960E+21	3,794714E+22	2,874081E+21	4,082122E+22
2103	1,897349E+22	1,897290E+22	1,436875E+21	1,437202E+21	3,794639E+22	2,874077E+21	4,082046E+22
2104	1,897298E+22	1,897217E+22	1,437175E+21	1,436948E+21	3,794514E+22	2,874122E+21	4,081927E+22
2105	1,897155E+22	1,897255E+22	1,437229E+21	1,437227E+21	3,794409E+22	2,874456E+21	4,081855E+22
2106	1,897187E+22	1,897118E+22	1,437100E+21	1,437310E+21	3,794304E+22	2,874409E+21	4,081745E+22
2107	1,897072E+22	1,897114E+22	1,437432E+21	1,437110E+21	3,794186E+22	2,874542E+21	4,081640E+22
2108	1,897048E+22	1,897102E+22	1,437217E+21	1,437440E+21	3,794151E+22	2,874657E+21	4,081616E+22
2109	1,897124E+22	1,897005E+22	1,437194E+21	1,437229E+21	3,794129E+22	2,874423E+21	4,081571E+22
2110	1,897035E+22	1,897120E+22	1,437413E+21	1,437124E+21	3,794155E+22	2,874537E+21	4,081609E+22
2111	1,897121E+22	1,897125E+22	1,437081E+21	1,437371E+21	3,794246E+22	2,874452E+21	4,081692E+22
2112	1,897178E+22	1,897119E+22	1,437199E+21	1,437029E+21	3,794298E+22	2,874228E+21	4,081720E+22
2113	1,897122E+22	1,897256E+22	1,437245E+21	1,437122E+21	3,794378E+22	2,874366E+21	4,081815E+22
2114	1,897270E+22	1,897217E+22	1,436941E+21	1,437184E+21	3,794487E+22	2,874125E+21	4,081899E+22
2115	1,897274E+22	1,897260E+22	1,437175E+21	1,436845E+21	3,794535E+22	2,874019E+21	4,081937E+22
2116	1,897269E+22	1,897338E+22	1,437025E+21	1,437118E+21	3,794607E+22	2,874143E+21	4,082021E+22
2117	1,897357E+22	1,897268E+22	1,436889E+21	1,437014E+21	3,794625E+22	2,873903E+21	4,082015E+22
2118	1,897251E+22	1,897331E+22	1,437201E+21	1,436907E+21	3,794582E+22	2,874108E+21	4,081993E+22
2119	1,897261E+22	1,897301E+22	1,436951E+21	1,437250E+21	3,794562E+22	2,874201E+21	4,081982E+22
2120	1,897294E+22	1,897180E+22	1,437059E+21	1,437031E+21	3,794473E+22	2,874091E+21	4,081882E+22
2121	1,897143E+22	1,897223E+22	1,437309E+21	1,437112E+21	3,794366E+22	2,874421E+21	4,081808E+22
2122	1,897175E+22	1,897126E+22	1,437070E+21	1,437365E+21	3,794300E+22	2,874435E+21	4,081744E+22
2123	1,897102E+22	1,897048E+22	1,437380E+21	1,437141E+21	3,794151E+22	2,874521E+21	4,081603E+22
2124	1,896967E+22	1,897070E+22	1,437400E+21	1,437431E+21	3,794036E+22	2,874831E+21	4,081519E+22
2125	1,897014E+22	1,896934E+22	1,437241E+21	1,437482E+21	3,793948E+22	2,874722E+21	4,081420E+22
2126	1,896910E+22	1,896934E+22	1,437581E+21	1,437274E+21	3,793844E+22	2,874855E+21	4,081330E+22
2127	1,896897E+22	1,896952E+22	1,437374E+21	1,437562E+21	3,793849E+22	2,874936E+21	4,081343E+22
2128	1,896984E+22	1,896868E+22	1,437350E+21	1,437365E+21	3,793852E+22	2,874715E+21	4,081324E+22
2129	1,896875E+22	1,896979E+22	1,437574E+21	1,437275E+21	3,793854E+22	2,874849E+21	4,081339E+22
2130	1,896968E+22	1,896989E+22	1,437243E+21	1,437528E+21	3,793957E+22	2,874770E+21	4,081434E+22
2131	1,897033E+22	1,896969E+22	1,437353E+21	1,437182E+21	3,794002E+22	2,874535E+21	4,081456E+22
2132	1,896996E+22	1,897094E+22	1,437365E+21	1,437261E+21	3,794090E+22	2,874626E+21	4,081552E+22
2133	1,897143E+22	1,897071E+22	1,437047E+21	1,437300E+21	3,794215E+22	2,874347E+21	4,081649E+22
2134	1,897127E+22	1,897119E+22	1,437307E+21	1,437001E+21	3,794245E+22	2,874308E+21	4,081676E+22
2135	1,897103E+22	1,897208E+22	1,437176E+21	1,437271E+21	3,794311E+22	2,874447E+21	4,081756E+22
2136	1,897197E+22	1,897117E+22	1,437049E+21	1,437187E+21	3,794314E+22	2,874236E+21	4,081738E+22
2137	1,897081E+22	1,897153E+22	1,437372E+21	1,437072E+21	3,794234E+22	2,874443E+21	4,081678E+22
2138	1,897105E+22	1,897127E+22	1,437131E+21	1,437401E+21	3,794232E+22	2,874532E+21	4,081685E+22
2139	1,897130E+22	1,897004E+22	1,437253E+21	1,437195E+21	3,794135E+22	2,874448E+21	4,081579E+22
2140	1,896977E+22	1,897047E+22	1,437476E+21	1,437297E+21	3,794024E+22	2,874773E+21	4,081501E+22
2141	1,896995E+22	1,896960E+22	1,437226E+21	1,437557E+21	3,793955E+22	2,874783E+21	4,081434E+22
2142	1,896912E+22	1,896871E+22	1,437555E+21	1,437359E+21	3,793783E+22	2,874914E+21	4,081274E+22
2143	1,896789E+22	1,896899E+22	1,437576E+21	1,437595E+21	3,793688E+22	2,875171E+21	4,081205E+22
2144	1,896858E+22	1,896761E+22	1,437412E+21	1,437626E+21	3,793619E+22	2,875039E+21	4,081123E+22
2145	1,896742E+22	1,896763E+22	1,437756E+21	1,437408E+21	3,793505E+22	2,875164E+21	4,081022E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2146	1,896735E+22	1,896803E+22	1,437548E+21	1,437702E+21	3,793538E+22	2,875250E+21	4,081063E+22
2147	1,896812E+22	1,896721E+22	1,437520E+21	1,437533E+21	3,793534E+22	2,875052E+21	4,081039E+22
2148	1,896726E+22	1,896822E+22	1,437698E+21	1,437447E+21	3,793547E+22	2,875145E+21	4,081062E+22
2149	1,896838E+22	1,896839E+22	1,437347E+21	1,437665E+21	3,793677E+22	2,875012E+21	4,081179E+22
2150	1,896906E+22	1,896825E+22	1,437470E+21	1,437321E+21	3,793731E+22	2,874791E+21	4,081211E+22
2151	1,896870E+22	1,896970E+22	1,437499E+21	1,437363E+21	3,793840E+22	2,874862E+21	4,081326E+22
2152	1,897008E+22	1,896949E+22	1,437190E+21	1,437427E+21	3,793957E+22	2,874617E+21	4,081419E+22
2153	1,896958E+22	1,896976E+22	1,437468E+21	1,437160E+21	3,793935E+22	2,874629E+21	4,081397E+22
2154	1,896938E+22	1,897051E+22	1,437352E+21	1,437439E+21	3,793990E+22	2,874791E+21	4,081469E+22
2155	1,897035E+22	1,896943E+22	1,437229E+21	1,437363E+21	3,793978E+22	2,874592E+21	4,081437E+22
2156	1,896937E+22	1,896965E+22	1,437514E+21	1,437240E+21	3,793902E+22	2,874754E+21	4,081377E+22
2157	1,896955E+22	1,896956E+22	1,437275E+21	1,437557E+21	3,793911E+22	2,874832E+21	4,081395E+22
2158	1,896955E+22	1,896842E+22	1,437420E+21	1,437391E+21	3,793797E+22	2,874810E+21	4,081278E+22
2159	1,896787E+22	1,896892E+22	1,437659E+21	1,437473E+21	3,793680E+22	2,875133E+21	4,081193E+22
2160	1,896811E+22	1,896792E+22	1,437416E+21	1,437736E+21	3,793604E+22	2,875153E+21	4,081119E+22
2161	1,896720E+22	1,896683E+22	1,437749E+21	1,437529E+21	3,793402E+22	2,875277E+21	4,080930E+22
2162	1,896614E+22	1,896717E+22	1,437771E+21	1,437742E+21	3,793330E+22	2,875514E+21	4,080882E+22
2163	1,896687E+22	1,896586E+22	1,437601E+21	1,437790E+21	3,793272E+22	2,875391E+21	4,080812E+22
2164	1,896583E+22	1,896589E+22	1,437889E+21	1,437588E+21	3,793172E+22	2,875477E+21	4,080720E+22
2165	1,896582E+22	1,896648E+22	1,437670E+21	1,437880E+21	3,793231E+22	2,875550E+21	4,080785E+22
2166	1,896665E+22	1,896570E+22	1,437645E+21	1,437717E+21	3,793235E+22	2,875362E+21	4,080771E+22
2167	1,896597E+22	1,896685E+22	1,437825E+21	1,437567E+21	3,793283E+22	2,875391E+21	4,080822E+22
2168	1,896723E+22	1,896710E+22	1,437482E+21	1,437758E+21	3,793433E+22	2,875240E+21	4,080957E+22
2169	1,896760E+22	1,896694E+22	1,437623E+21	1,437425E+21	3,793454E+22	2,875049E+21	4,080959E+22
2170	1,896713E+22	1,896843E+22	1,437669E+21	1,437486E+21	3,793556E+22	2,875156E+21	4,081072E+22
2171	1,896834E+22	1,896807E+22	1,437367E+21	1,437595E+21	3,793641E+22	2,874962E+21	4,081137E+22
2172	1,896802E+22	1,896804E+22	1,437600E+21	1,437344E+21	3,793606E+22	2,874943E+21	4,081100E+22
2173	1,896798E+22	1,896879E+22	1,437478E+21	1,437601E+21	3,793677E+22	2,875079E+21	4,081185E+22
2174	1,896891E+22	1,896775E+22	1,437371E+21	1,437538E+21	3,793666E+22	2,874909E+21	4,081157E+22
2175	1,896791E+22	1,896816E+22	1,437671E+21	1,437387E+21	3,793607E+22	2,875058E+21	4,081113E+22
2176	1,896795E+22	1,896810E+22	1,437453E+21	1,437717E+21	3,793605E+22	2,875171E+21	4,081122E+22
2177	1,896756E+22	1,896678E+22	1,437621E+21	1,437585E+21	3,793434E+22	2,875206E+21	4,080954E+22
2178	1,896595E+22	1,896712E+22	1,437871E+21	1,437656E+21	3,793308E+22	2,875527E+21	4,080860E+22
2179	1,896621E+22	1,896598E+22	1,437625E+21	1,437918E+21	3,793219E+22	2,875543E+21	4,080773E+22
2180	1,896552E+22	1,896479E+22	1,437901E+21	1,437702E+21	3,793030E+22	2,875603E+21	4,080591E+22
2181	1,896453E+22	1,896534E+22	1,437914E+21	1,437904E+21	3,792988E+22	2,875818E+21	4,080569E+22
2182	1,896515E+22	1,896424E+22	1,437747E+21	1,437982E+21	3,792939E+22	2,875729E+21	4,080512E+22
2183	1,896424E+22	1,896447E+22	1,438028E+21	1,437748E+21	3,792871E+22	2,875775E+21	4,080449E+22
2184	1,896442E+22	1,896509E+22	1,437818E+21	1,438014E+21	3,792950E+22	2,875831E+21	4,080533E+22
2185	1,896516E+22	1,896429E+22	1,437800E+21	1,437835E+21	3,792945E+22	2,875635E+21	4,080508E+22
2186	1,896461E+22	1,896551E+22	1,437993E+21	1,437660E+21	3,793012E+22	2,875653E+21	4,080577E+22
2187	1,896572E+22	1,896579E+22	1,437658E+21	1,437879E+21	3,793151E+22	2,875537E+21	4,080705E+22
2188	1,896608E+22	1,896547E+22	1,437749E+21	1,437591E+21	3,793155E+22	2,875341E+21	4,080689E+22
2189	1,896561E+22	1,896690E+22	1,437794E+21	1,437671E+21	3,793252E+22	2,875465E+21	4,080798E+22
2190	1,896684E+22	1,896644E+22	1,437497E+21	1,437797E+21	3,793328E+22	2,875295E+21	4,080857E+22
2191	1,896673E+22	1,896645E+22	1,437724E+21	1,437493E+21	3,793319E+22	2,875217E+21	4,080840E+22
2192	1,896675E+22	1,896729E+22	1,437625E+21	1,437725E+21	3,793404E+22	2,875349E+21	4,080939E+22
2193	1,896728E+22	1,896626E+22	1,437546E+21	1,437680E+21	3,793354E+22	2,875227E+21	4,080877E+22
2194	1,896609E+22	1,896666E+22	1,437876E+21	1,437545E+21	3,793276E+22	2,875421E+21	4,080818E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2195	1,896592E+22	1,896645E+22	1,437672E+21	1,437907E+21	3,793237E+22	2,875580E+21	4,080795E+22
2196	1,896565E+22	1,896478E+22	1,437792E+21	1,437790E+21	3,793043E+22	2,875582E+21	4,080601E+22
2197	1,896423E+22	1,896511E+22	1,438030E+21	1,437839E+21	3,792934E+22	2,875869E+21	4,080521E+22
2198	1,896451E+22	1,896405E+22	1,437787E+21	1,438106E+21	3,792856E+22	2,875893E+21	4,080445E+22
2199	1,896393E+22	1,896311E+22	1,438049E+21	1,437861E+21	3,792704E+22	2,875910E+21	4,080295E+22
2200	1,896297E+22	1,896384E+22	1,438071E+21	1,438060E+21	3,792681E+22	2,876131E+21	4,080295E+22
2201	1,896336E+22	1,896275E+22	1,437923E+21	1,438155E+21	3,792611E+22	2,876078E+21	4,080219E+22
2202	1,896267E+22	1,896297E+22	1,438211E+21	1,437891E+21	3,792564E+22	2,876101E+21	4,080175E+22
2203	1,896291E+22	1,896359E+22	1,438003E+21	1,438143E+21	3,792650E+22	2,876146E+21	4,080265E+22
2204	1,896376E+22	1,896272E+22	1,437931E+21	1,437965E+21	3,792647E+22	2,875896E+21	4,080237E+22
2205	1,896321E+22	1,896404E+22	1,438116E+21	1,437800E+21	3,792725E+22	2,875916E+21	4,080317E+22
2206	1,896410E+22	1,896438E+22	1,437785E+21	1,438057E+21	3,792848E+22	2,875842E+21	4,080433E+22
2207	1,896462E+22	1,896408E+22	1,437865E+21	1,437756E+21	3,792870E+22	2,875621E+21	4,080432E+22
2208	1,896436E+22	1,896543E+22	1,437923E+21	1,437811E+21	3,792979E+22	2,875733E+21	4,080552E+22
2209	1,896543E+22	1,896495E+22	1,437651E+21	1,437933E+21	3,793038E+22	2,875584E+21	4,080596E+22
2210	1,896540E+22	1,896501E+22	1,437897E+21	1,437610E+21	3,793041E+22	2,875507E+21	4,080592E+22
2211	1,896515E+22	1,896585E+22	1,437821E+21	1,437868E+21	3,793100E+22	2,875689E+21	4,080669E+22
2212	1,896551E+22	1,896463E+22	1,437708E+21	1,437870E+21	3,793014E+22	2,875577E+21	4,080571E+22
2213	1,896429E+22	1,896487E+22	1,438045E+21	1,437755E+21	3,792916E+22	2,875800E+21	4,080496E+22
2214	1,896404E+22	1,896452E+22	1,437847E+21	1,438121E+21	3,792856E+22	2,875968E+21	4,080453E+22
2215	1,896402E+22	1,896289E+22	1,437949E+21	1,437963E+21	3,792691E+22	2,875912E+21	4,080282E+22
2216	1,896269E+22	1,896330E+22	1,438195E+21	1,437982E+21	3,792599E+22	2,876177E+21	4,080216E+22
2217	1,896264E+22	1,896238E+22	1,437973E+21	1,438269E+21	3,792503E+22	2,876242E+21	4,080127E+22
2218	1,896209E+22	1,896155E+22	1,438242E+21	1,438024E+21	3,792364E+22	2,876267E+21	4,079991E+22
2219	1,896112E+22	1,896227E+22	1,438274E+21	1,438237E+21	3,792339E+22	2,876511E+21	4,079990E+22
2220	1,896171E+22	1,896102E+22	1,438075E+21	1,438327E+21	3,792273E+22	2,876402E+21	4,079913E+22
2221	1,896125E+22	1,896131E+22	1,438348E+21	1,438043E+21	3,792256E+22	2,876392E+21	4,079895E+22
2222	1,896146E+22	1,896205E+22	1,438141E+21	1,438292E+21	3,792351E+22	2,876433E+21	4,079994E+22
2223	1,896240E+22	1,896135E+22	1,438047E+21	1,438103E+21	3,792375E+22	2,876151E+21	4,079990E+22
2224	1,896186E+22	1,896272E+22	1,438238E+21	1,437942E+21	3,792458E+22	2,876179E+21	4,080076E+22
2225	1,896255E+22	1,896299E+22	1,437930E+21	1,438217E+21	3,792554E+22	2,876147E+21	4,080168E+22
2226	1,896326E+22	1,896263E+22	1,438021E+21	1,437888E+21	3,792589E+22	2,875908E+21	4,080180E+22
2227	1,896304E+22	1,896398E+22	1,438093E+21	1,437935E+21	3,792702E+22	2,876028E+21	4,080305E+22
2228	1,896405E+22	1,896339E+22	1,437793E+21	1,438065E+21	3,792744E+22	2,875859E+21	4,080329E+22
2229	1,896389E+22	1,896350E+22	1,438047E+21	1,437772E+21	3,792738E+22	2,875819E+21	4,080320E+22
2230	1,896332E+22	1,896428E+22	1,437987E+21	1,438059E+21	3,792760E+22	2,876047E+21	4,080365E+22
2231	1,896374E+22	1,896297E+22	1,437863E+21	1,438059E+21	3,792671E+22	2,875923E+21	4,080263E+22
2232	1,896267E+22	1,896307E+22	1,438208E+21	1,437920E+21	3,792574E+22	2,876128E+21	4,080187E+22
2233	1,896223E+22	1,896271E+22	1,438034E+21	1,438283E+21	3,792494E+22	2,876317E+21	4,080125E+22
2234	1,896232E+22	1,896115E+22	1,438149E+21	1,438113E+21	3,792346E+22	2,876262E+21	4,079973E+22
2235	1,896088E+22	1,896163E+22	1,438399E+21	1,438159E+21	3,792251E+22	2,876558E+21	4,079907E+22
2236	1,896078E+22	1,896061E+22	1,438143E+21	1,438475E+21	3,792139E+22	2,876618E+21	4,079801E+22
2237	1,896040E+22	1,895976E+22	1,438402E+21	1,438236E+21	3,792016E+22	2,876638E+21	4,079679E+22
2238	1,895949E+22	1,896049E+22	1,438431E+21	1,438420E+21	3,791998E+22	2,876851E+21	4,079684E+22
2239	1,896036E+22	1,895943E+22	1,438204E+21	1,438465E+21	3,791979E+22	2,876670E+21	4,079646E+22
2240	1,895997E+22	1,895986E+22	1,438478E+21	1,438151E+21	3,791983E+22	2,876629E+21	4,079645E+22
2241	1,895980E+22	1,896072E+22	1,438296E+21	1,438418E+21	3,792052E+22	2,876714E+21	4,079723E+22
2242	1,896078E+22	1,896007E+22	1,438207E+21	1,438236E+21	3,792086E+22	2,876443E+21	4,079730E+22
2243	1,896031E+22	1,896131E+22	1,438404E+21	1,438091E+21	3,792163E+22	2,876495E+21	4,079812E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2244	1,896115E+22	1,896140E+22	1,438064E+21	1,438363E+21	3,792255E+22	2,876427E+21	4,079898E+22
2245	1,896206E+22	1,896108E+22	1,438148E+21	1,438030E+21	3,792314E+22	2,876178E+21	4,079932E+22
2246	1,896166E+22	1,896251E+22	1,438233E+21	1,438079E+21	3,792417E+22	2,876312E+21	4,080048E+22
2247	1,896262E+22	1,896203E+22	1,437924E+21	1,438219E+21	3,792465E+22	2,876142E+21	4,080079E+22
2248	1,896232E+22	1,896204E+22	1,438194E+21	1,437943E+21	3,792436E+22	2,876137E+21	4,080050E+22
2249	1,896144E+22	1,896264E+22	1,438171E+21	1,438244E+21	3,792409E+22	2,876415E+21	4,080050E+22
2250	1,896203E+22	1,896121E+22	1,438058E+21	1,438224E+21	3,792324E+22	2,876282E+21	4,079952E+22
2251	1,896099E+22	1,896124E+22	1,438407E+21	1,438085E+21	3,792223E+22	2,876492E+21	4,079873E+22
2252	1,896047E+22	1,896078E+22	1,438206E+21	1,438458E+21	3,792125E+22	2,876664E+21	4,079792E+22
2253	1,896053E+22	1,895932E+22	1,438315E+21	1,438315E+21	3,791985E+22	2,876631E+21	4,079648E+22
2254	1,895897E+22	1,895985E+22	1,438567E+21	1,438369E+21	3,791883E+22	2,876936E+21	4,079576E+22
2255	1,895912E+22	1,895888E+22	1,438297E+21	1,438663E+21	3,791800E+22	2,876961E+21	4,079496E+22
2256	1,895894E+22	1,895811E+22	1,438552E+21	1,438382E+21	3,791704E+22	2,876934E+21	4,079398E+22
2257	1,895789E+22	1,895895E+22	1,438601E+21	1,438541E+21	3,791684E+22	2,877143E+21	4,079399E+22
2258	1,895882E+22	1,895803E+22	1,438382E+21	1,438571E+21	3,791684E+22	2,876953E+21	4,079380E+22
2259	1,895833E+22	1,895852E+22	1,438650E+21	1,438290E+21	3,791686E+22	2,876940E+21	4,079380E+22
2260	1,895811E+22	1,895920E+22	1,438440E+21	1,438584E+21	3,791730E+22	2,877024E+21	4,079433E+22
2261	1,895933E+22	1,895849E+22	1,438341E+21	1,438416E+21	3,791782E+22	2,876757E+21	4,079457E+22
2262	1,895899E+22	1,895973E+22	1,438529E+21	1,438247E+21	3,791872E+22	2,876776E+21	4,079550E+22
2263	1,896005E+22	1,895996E+22	1,438176E+21	1,438489E+21	3,792001E+22	2,876666E+21	4,079668E+22
2264	1,896089E+22	1,895978E+22	1,438266E+21	1,438143E+21	3,792067E+22	2,876410E+21	4,079708E+22
2265	1,896002E+22	1,896123E+22	1,438389E+21	1,438215E+21	3,792125E+22	2,876604E+21	4,079785E+22
2266	1,896088E+22	1,896069E+22	1,438105E+21	1,438367E+21	3,792156E+22	2,876472E+21	4,079803E+22
2267	1,896057E+22	1,896045E+22	1,438388E+21	1,438120E+21	3,792103E+22	2,876508E+21	4,079753E+22
2268	1,895970E+22	1,896076E+22	1,438343E+21	1,438418E+21	3,792046E+22	2,876761E+21	4,079722E+22
2269	1,896045E+22	1,895930E+22	1,438228E+21	1,438410E+21	3,791975E+22	2,876638E+21	4,079639E+22
2270	1,895930E+22	1,895938E+22	1,438572E+21	1,438269E+21	3,791867E+22	2,876841E+21	4,079551E+22
2271	1,895882E+22	1,895907E+22	1,438358E+21	1,438650E+21	3,791790E+22	2,877008E+21	4,079490E+22
2272	1,895886E+22	1,895766E+22	1,438470E+21	1,438504E+21	3,791652E+22	2,876973E+21	4,079349E+22
2273	1,895712E+22	1,895815E+22	1,438752E+21	1,438545E+21	3,791527E+22	2,877297E+21	4,079257E+22
2274	1,895746E+22	1,895728E+22	1,438496E+21	1,438797E+21	3,791474E+22	2,877293E+21	4,079203E+22
2275	1,895731E+22	1,895653E+22	1,438746E+21	1,438516E+21	3,791385E+22	2,877262E+21	4,079111E+22
2276	1,895612E+22	1,895730E+22	1,438769E+21	1,438679E+21	3,791343E+22	2,877448E+21	4,079088E+22
2277	1,895709E+22	1,895645E+22	1,438535E+21	1,438745E+21	3,791354E+22	2,877280E+21	4,079082E+22
2278	1,895661E+22	1,895691E+22	1,438784E+21	1,438470E+21	3,791352E+22	2,877254E+21	4,079077E+22
2279	1,895677E+22	1,895763E+22	1,438552E+21	1,438748E+21	3,791440E+22	2,877300E+21	4,079170E+22
2280	1,895821E+22	1,895705E+22	1,438445E+21	1,438543E+21	3,791527E+22	2,876988E+21	4,079226E+22
2281	1,895774E+22	1,895842E+22	1,438662E+21	1,438360E+21	3,791616E+22	2,877022E+21	4,079318E+22
2282	1,895875E+22	1,895880E+22	1,438337E+21	1,438590E+21	3,791755E+22	2,876927E+21	4,079448E+22
2283	1,895937E+22	1,895858E+22	1,438434E+21	1,438294E+21	3,791795E+22	2,876728E+21	4,079468E+22
2284	1,895827E+22	1,895967E+22	1,438552E+21	1,438390E+21	3,791795E+22	2,876942E+21	4,079489E+22
2285	1,895924E+22	1,895893E+22	1,438272E+21	1,438561E+21	3,791817E+22	2,876833E+21	4,079500E+22
2286	1,895897E+22	1,895860E+22	1,438545E+21	1,438298E+21	3,791756E+22	2,876843E+21	4,079441E+22
2287	1,895828E+22	1,895893E+22	1,438490E+21	1,438580E+21	3,791721E+22	2,877070E+21	4,079428E+22
2288	1,895889E+22	1,895763E+22	1,438377E+21	1,438568E+21	3,791652E+22	2,876945E+21	4,079347E+22
2289	1,895740E+22	1,895777E+22	1,438744E+21	1,438445E+21	3,791517E+22	2,877189E+21	4,079236E+22
2290	1,895692E+22	1,895748E+22	1,438564E+21	1,438815E+21	3,791440E+22	2,877379E+21	4,079178E+22
2291	1,895703E+22	1,895602E+22	1,438677E+21	1,438682E+21	3,791304E+22	2,877359E+21	4,079040E+22
2292	1,895531E+22	1,895632E+22	1,438940E+21	1,438701E+21	3,791162E+22	2,877640E+21	4,078926E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2293	1,895580E+22	1,895549E+22	1,438679E+21	1,438960E+21	3,791129E+22	2,877639E+21	4,078893E+22
2294	1,895556E+22	1,895484E+22	1,438905E+21	1,438683E+21	3,791040E+22	2,877587E+21	4,078799E+22
2295	1,895453E+22	1,895568E+22	1,438897E+21	1,438859E+21	3,791021E+22	2,877756E+21	4,078797E+22
2296	1,895560E+22	1,895491E+22	1,438652E+21	1,438919E+21	3,791051E+22	2,877570E+21	4,078808E+22
2297	1,895518E+22	1,895539E+22	1,438911E+21	1,438624E+21	3,791057E+22	2,877535E+21	4,078811E+22
2298	1,895560E+22	1,895630E+22	1,438703E+21	1,438852E+21	3,791189E+22	2,877555E+21	4,078945E+22
2299	1,895703E+22	1,895586E+22	1,438597E+21	1,438651E+21	3,791289E+22	2,877249E+21	4,079014E+22
2300	1,895626E+22	1,895710E+22	1,438811E+21	1,438477E+21	3,791336E+22	2,877288E+21	4,079065E+22
2301	1,895716E+22	1,895744E+22	1,438497E+21	1,438746E+21	3,791460E+22	2,877243E+21	4,079184E+22
2302	1,895764E+22	1,895702E+22	1,438589E+21	1,438469E+21	3,791466E+22	2,877058E+21	4,079172E+22
2303	1,895679E+22	1,895797E+22	1,438692E+21	1,438563E+21	3,791476E+22	2,877255E+21	4,079201E+22
2304	1,895784E+22	1,895725E+22	1,438407E+21	1,438713E+21	3,791509E+22	2,877120E+21	4,079221E+22
2305	1,895739E+22	1,895692E+22	1,438702E+21	1,438450E+21	3,791431E+22	2,877152E+21	4,079146E+22
2306	1,895664E+22	1,895742E+22	1,438678E+21	1,438723E+21	3,791406E+22	2,877400E+21	4,079146E+22
2307	1,895707E+22	1,895612E+22	1,438570E+21	1,438758E+21	3,791320E+22	2,877329E+21	4,079053E+22
2308	1,895541E+22	1,895595E+22	1,438937E+21	1,438647E+21	3,791136E+22	2,877584E+21	4,078894E+22
2309	1,895513E+22	1,895557E+22	1,438765E+21	1,439017E+21	3,791069E+22	2,877781E+21	4,078847E+22
2310	1,895526E+22	1,895410E+22	1,438856E+21	1,438861E+21	3,790936E+22	2,877717E+21	4,078708E+22
2311	1,895374E+22	1,895448E+22	1,439090E+21	1,438866E+21	3,790822E+22	2,877956E+21	4,078617E+22
2312	1,895414E+22	1,895386E+22	1,438817E+21	1,439117E+21	3,790799E+22	2,877933E+21	4,078593E+22
2313	1,895374E+22	1,895328E+22	1,439047E+21	1,438854E+21	3,790702E+22	2,877901E+21	4,078492E+22
2314	1,895293E+22	1,895421E+22	1,439062E+21	1,439003E+21	3,790714E+22	2,878065E+21	4,078521E+22
2315	1,895421E+22	1,895353E+22	1,438811E+21	1,439064E+21	3,790774E+22	2,877874E+21	4,078561E+22
2316	1,895384E+22	1,895391E+22	1,439055E+21	1,438744E+21	3,790776E+22	2,877799E+21	4,078556E+22
2317	1,895436E+22	1,895491E+22	1,438863E+21	1,438973E+21	3,790928E+22	2,877837E+21	4,078711E+22
2318	1,895556E+22	1,895459E+22	1,438740E+21	1,438785E+21	3,791015E+22	2,877525E+21	4,078767E+22
2319	1,895483E+22	1,895571E+22	1,438935E+21	1,438642E+21	3,791053E+22	2,877576E+21	4,078811E+22
2320	1,895563E+22	1,895597E+22	1,438625E+21	1,438908E+21	3,791160E+22	2,877534E+21	4,078913E+22
2321	1,895609E+22	1,895542E+22	1,438729E+21	1,438634E+21	3,791151E+22	2,877363E+21	4,078888E+22
2322	1,895540E+22	1,895639E+22	1,438862E+21	1,438691E+21	3,791178E+22	2,877553E+21	4,078934E+22
2323	1,895634E+22	1,895576E+22	1,438583E+21	1,438861E+21	3,791211E+22	2,877445E+21	4,078955E+22
2324	1,895559E+22	1,895526E+22	1,438872E+21	1,438616E+21	3,791085E+22	2,877488E+21	4,078834E+22
2325	1,895480E+22	1,895569E+22	1,438868E+21	1,438920E+21	3,791049E+22	2,877788E+21	4,078828E+22
2326	1,895513E+22	1,895432E+22	1,438755E+21	1,438961E+21	3,790945E+22	2,877716E+21	4,078717E+22
2327	1,895376E+22	1,895402E+22	1,439100E+21	1,438843E+21	3,790779E+22	2,877942E+21	4,078573E+22
2328	1,895353E+22	1,895376E+22	1,438925E+21	1,439176E+21	3,790730E+22	2,878100E+21	4,078540E+22
2329	1,895355E+22	1,895238E+22	1,439024E+21	1,439023E+21	3,790592E+22	2,878047E+21	4,078397E+22
2330	1,895204E+22	1,895293E+22	1,439270E+21	1,439011E+21	3,790497E+22	2,878282E+21	4,078325E+22
2331	1,895237E+22	1,895239E+22	1,438991E+21	1,439294E+21	3,790476E+22	2,878285E+21	4,078305E+22
2332	1,895197E+22	1,895157E+22	1,439209E+21	1,439026E+21	3,790355E+22	2,878235E+21	4,078178E+22
2333	1,895153E+22	1,895255E+22	1,439231E+21	1,439161E+21	3,790407E+22	2,878392E+21	4,078247E+22
2334	1,895285E+22	1,895202E+22	1,438963E+21	1,439192E+21	3,790487E+22	2,878154E+21	4,078302E+22
2335	1,895263E+22	1,895249E+22	1,439178E+21	1,438874E+21	3,790512E+22	2,878053E+21	4,078318E+22
2336	1,895296E+22	1,895365E+22	1,438980E+21	1,439099E+21	3,790662E+22	2,878079E+21	4,078470E+22
2337	1,895390E+22	1,895325E+22	1,438868E+21	1,438940E+21	3,790715E+22	2,877808E+21	4,078496E+22
2338	1,895330E+22	1,895431E+22	1,439090E+21	1,438781E+21	3,790761E+22	2,877871E+21	4,078548E+22
2339	1,895418E+22	1,895454E+22	1,438782E+21	1,439056E+21	3,790872E+22	2,877838E+21	4,078656E+22
2340	1,895457E+22	1,895376E+22	1,438886E+21	1,438779E+21	3,790834E+22	2,877664E+21	4,078600E+22
2341	1,895397E+22	1,895472E+22	1,439038E+21	1,438850E+21	3,790870E+22	2,877887E+21	4,078658E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2342	1,895464E+22	1,895417E+22	1,438751E+21	1,439039E+21	3,790881E+22	2,877790E+21	4,078660E+22
2343	1,895396E+22	1,895352E+22	1,439019E+21	1,438827E+21	3,790748E+22	2,877846E+21	4,078533E+22
2344	1,895312E+22	1,895392E+22	1,439023E+21	1,439110E+21	3,790704E+22	2,878133E+21	4,078517E+22
2345	1,895342E+22	1,895252E+22	1,438925E+21	1,439144E+21	3,790593E+22	2,878068E+21	4,078400E+22
2346	1,895217E+22	1,895233E+22	1,439295E+21	1,438984E+21	3,790450E+22	2,878278E+21	4,078277E+22
2347	1,895177E+22	1,895220E+22	1,439121E+21	1,439325E+21	3,790398E+22	2,878446E+21	4,078242E+22
2348	1,895153E+22	1,895065E+22	1,439210E+21	1,439193E+21	3,790219E+22	2,878403E+21	4,078059E+22
2349	1,895017E+22	1,895114E+22	1,439462E+21	1,439198E+21	3,790131E+22	2,878661E+21	4,077997E+22
2350	1,895058E+22	1,895066E+22	1,439164E+21	1,439471E+21	3,790124E+22	2,878636E+21	4,077988E+22
2351	1,895063E+22	1,894986E+22	1,439334E+21	1,439193E+21	3,790049E+22	2,878527E+21	4,077902E+22
2352	1,895029E+22	1,895105E+22	1,439353E+21	1,439285E+21	3,790134E+22	2,878639E+21	4,077998E+22
2353	1,895148E+22	1,895072E+22	1,439090E+21	1,439319E+21	3,790220E+22	2,878409E+21	4,078061E+22
2354	1,895123E+22	1,895133E+22	1,439321E+21	1,438996E+21	3,790256E+22	2,878317E+21	4,078088E+22
2355	1,895141E+22	1,895246E+22	1,439130E+21	1,439246E+21	3,790388E+22	2,878376E+21	4,078225E+22
2356	1,895227E+22	1,895170E+22	1,439018E+21	1,439096E+21	3,790397E+22	2,878114E+21	4,078208E+22
2357	1,895196E+22	1,895263E+22	1,439251E+21	1,438934E+21	3,790459E+22	2,878185E+21	4,078278E+22
2358	1,895276E+22	1,895295E+22	1,438937E+21	1,439196E+21	3,790572E+22	2,878133E+21	4,078385E+22
2359	1,895323E+22	1,895215E+22	1,439012E+21	1,438942E+21	3,790538E+22	2,877954E+21	4,078334E+22
2360	1,895242E+22	1,895321E+22	1,439169E+21	1,439013E+21	3,790563E+22	2,878182E+21	4,078381E+22
2361	1,895287E+22	1,895259E+22	1,438907E+21	1,439226E+21	3,790546E+22	2,878133E+21	4,078359E+22
2362	1,895229E+22	1,895192E+22	1,439205E+21	1,438995E+21	3,790421E+22	2,878199E+21	4,078241E+22
2363	1,895144E+22	1,895232E+22	1,439217E+21	1,439267E+21	3,790376E+22	2,878484E+21	4,078224E+22
2364	1,895157E+22	1,895070E+22	1,439127E+21	1,439303E+21	3,790227E+22	2,878430E+21	4,078070E+22
2365	1,895039E+22	1,895050E+22	1,439504E+21	1,439158E+21	3,790089E+22	2,878662E+21	4,077955E+22
2366	1,894977E+22	1,895044E+22	1,439311E+21	1,439513E+21	3,790021E+22	2,878825E+21	4,077904E+22
2367	1,894973E+22	1,894875E+22	1,439359E+21	1,439414E+21	3,789848E+22	2,878773E+21	4,077725E+22
2368	1,894859E+22	1,894931E+22	1,439593E+21	1,439385E+21	3,789789E+22	2,878978E+21	4,077687E+22
2369	1,894913E+22	1,894896E+22	1,439302E+21	1,439633E+21	3,789809E+22	2,878935E+21	4,077703E+22
2370	1,894938E+22	1,894847E+22	1,439482E+21	1,439308E+21	3,789785E+22	2,878790E+21	4,077664E+22
2371	1,894890E+22	1,894989E+22	1,439502E+21	1,439393E+21	3,789879E+22	2,878896E+21	4,077768E+22
2372	1,894977E+22	1,894941E+22	1,439243E+21	1,439448E+21	3,789918E+22	2,878691E+21	4,077787E+22
2373	1,894965E+22	1,894987E+22	1,439485E+21	1,439148E+21	3,789952E+22	2,878633E+21	4,077815E+22
2374	1,894980E+22	1,895095E+22	1,439286E+21	1,439389E+21	3,790075E+22	2,878675E+21	4,077943E+22
2375	1,895100E+22	1,895006E+22	1,439136E+21	1,439255E+21	3,790107E+22	2,878391E+21	4,077946E+22
2376	1,895077E+22	1,895109E+22	1,439365E+21	1,439071E+21	3,790186E+22	2,878435E+21	4,078029E+22
2377	1,895138E+22	1,895152E+22	1,439071E+21	1,439348E+21	3,790291E+22	2,878419E+21	4,078133E+22
2378	1,895176E+22	1,895084E+22	1,439163E+21	1,439099E+21	3,790260E+22	2,878262E+21	4,078086E+22
2379	1,895076E+22	1,895182E+22	1,439339E+21	1,439181E+21	3,790258E+22	2,878520E+21	4,078110E+22
2380	1,895104E+22	1,895086E+22	1,439100E+21	1,439398E+21	3,790191E+22	2,878498E+21	4,078040E+22
2381	1,895065E+22	1,895005E+22	1,439416E+21	1,439166E+21	3,790071E+22	2,878582E+21	4,077929E+22
2382	1,894960E+22	1,895053E+22	1,439424E+21	1,439425E+21	3,790013E+22	2,878848E+21	4,077898E+22
2383	1,894978E+22	1,894881E+22	1,439291E+21	1,439500E+21	3,789859E+22	2,878791E+21	4,077738E+22
2384	1,894851E+22	1,894863E+22	1,439648E+21	1,439355E+21	3,789714E+22	2,879003E+21	4,077614E+22
2385	1,894788E+22	1,894860E+22	1,439465E+21	1,439715E+21	3,789648E+22	2,879180E+21	4,077566E+22
2386	1,894815E+22	1,894708E+22	1,439516E+21	1,439580E+21	3,789524E+22	2,879095E+21	4,077433E+22
2387	1,894718E+22	1,894783E+22	1,439749E+21	1,439516E+21	3,789501E+22	2,879265E+21	4,077427E+22
2388	1,894762E+22	1,894747E+22	1,439478E+21	1,439753E+21	3,789509E+22	2,879231E+21	4,077433E+22
2389	1,894792E+22	1,894709E+22	1,439659E+21	1,439439E+21	3,789501E+22	2,879098E+21	4,077411E+22
2390	1,894719E+22	1,894857E+22	1,439666E+21	1,439532E+21	3,789576E+22	2,879198E+21	4,077496E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2391	1,894821E+22	1,894784E+22	1,439368E+21	1,439626E+21	3,789605E+22	2,878994E+21	4,077505E+22
2392	1,894828E+22	1,894825E+22	1,439593E+21	1,439306E+21	3,789653E+22	2,878899E+21	4,077543E+22
2393	1,894853E+22	1,894939E+22	1,439407E+21	1,439534E+21	3,789792E+22	2,878941E+21	4,077686E+22
2394	1,894982E+22	1,894875E+22	1,439271E+21	1,439378E+21	3,789856E+22	2,878649E+21	4,077721E+22
2395	1,894941E+22	1,894989E+22	1,439503E+21	1,439199E+21	3,789930E+22	2,878702E+21	4,077800E+22
2396	1,894964E+22	1,895009E+22	1,439244E+21	1,439501E+21	3,789974E+22	2,878745E+21	4,077848E+22
2397	1,895008E+22	1,894926E+22	1,439353E+21	1,439275E+21	3,789934E+22	2,878628E+21	4,077797E+22
2398	1,894898E+22	1,895014E+22	1,439529E+21	1,439343E+21	3,789912E+22	2,878872E+21	4,077800E+22
2399	1,894941E+22	1,894898E+22	1,439264E+21	1,439583E+21	3,789839E+22	2,878848E+21	4,077724E+22
2400	1,894903E+22	1,894820E+22	1,439570E+21	1,439344E+21	3,789724E+22	2,878914E+21	4,077615E+22
2401	1,894779E+22	1,894872E+22	1,439585E+21	1,439615E+21	3,789651E+22	2,879200E+21	4,077571E+22
2402	1,894797E+22	1,894714E+22	1,439458E+21	1,439695E+21	3,789510E+22	2,879152E+21	4,077426E+22
2403	1,894676E+22	1,894695E+22	1,439808E+21	1,439537E+21	3,789370E+22	2,879345E+21	4,077305E+22
2404	1,894613E+22	1,894677E+22	1,439652E+21	1,439880E+21	3,789290E+22	2,879532E+21	4,077243E+22
2405	1,894668E+22	1,894540E+22	1,439708E+21	1,439723E+21	3,789209E+22	2,879431E+21	4,077152E+22
2406	1,894556E+22	1,894636E+22	1,439934E+21	1,439636E+21	3,789193E+22	2,879569E+21	4,077150E+22
2407	1,894602E+22	1,894597E+22	1,439626E+21	1,439909E+21	3,789199E+22	2,879536E+21	4,077152E+22
2408	1,894627E+22	1,894560E+22	1,439783E+21	1,439603E+21	3,789187E+22	2,879385E+21	4,077126E+22
2409	1,894556E+22	1,894702E+22	1,439794E+21	1,439697E+21	3,789258E+22	2,879491E+21	4,077207E+22
2410	1,894686E+22	1,894643E+22	1,439494E+21	1,439767E+21	3,789329E+22	2,879261E+21	4,077255E+22
2411	1,894710E+22	1,894692E+22	1,439714E+21	1,439422E+21	3,789402E+22	2,879136E+21	4,077315E+22
2412	1,894720E+22	1,894800E+22	1,439566E+21	1,439654E+21	3,789520E+22	2,879219E+21	4,077442E+22
2413	1,894847E+22	1,894743E+22	1,439439E+21	1,439519E+21	3,789590E+22	2,878957E+21	4,077485E+22
2414	1,894775E+22	1,894855E+22	1,439672E+21	1,439355E+21	3,789630E+22	2,879027E+21	4,077533E+22
2415	1,894805E+22	1,894842E+22	1,439392E+21	1,439692E+21	3,789647E+22	2,879085E+21	4,077556E+22
2416	1,894856E+22	1,894746E+22	1,439493E+21	1,439456E+21	3,789602E+22	2,878949E+21	4,077497E+22
2417	1,894741E+22	1,894834E+22	1,439686E+21	1,439510E+21	3,789576E+22	2,879196E+21	4,077495E+22
2418	1,894781E+22	1,894737E+22	1,439433E+21	1,439739E+21	3,789518E+22	2,879172E+21	4,077435E+22
2419	1,894725E+22	1,894663E+22	1,439735E+21	1,439505E+21	3,789388E+22	2,879239E+21	4,077312E+22
2420	1,894576E+22	1,894692E+22	1,439784E+21	1,439795E+21	3,789267E+22	2,879579E+21	4,077225E+22
2421	1,894611E+22	1,894531E+22	1,439664E+21	1,439880E+21	3,789142E+22	2,879544E+21	4,077096E+22
2422	1,894496E+22	1,894520E+22	1,440001E+21	1,439699E+21	3,789016E+22	2,879700E+21	4,076986E+22
2423	1,894458E+22	1,894495E+22	1,439821E+21	1,440051E+21	3,788953E+22	2,879872E+21	4,076940E+22
2424	1,894517E+22	1,894378E+22	1,439856E+21	1,439885E+21	3,788895E+22	2,879741E+21	4,076869E+22
2425	1,894391E+22	1,894485E+22	1,440077E+21	1,439802E+21	3,788876E+22	2,879880E+21	4,076864E+22
2426	1,894437E+22	1,894459E+22	1,439768E+21	1,440074E+21	3,788896E+22	2,879842E+21	4,076881E+22
2427	1,894476E+22	1,894416E+22	1,439910E+21	1,439753E+21	3,788891E+22	2,879663E+21	4,076858E+22
2428	1,894410E+22	1,894539E+22	1,439951E+21	1,439834E+21	3,788949E+22	2,879784E+21	4,076928E+22
2429	1,894565E+22	1,894498E+22	1,439657E+21	1,439890E+21	3,789063E+22	2,879547E+21	4,077018E+22
2430	1,894575E+22	1,894564E+22	1,439864E+21	1,439538E+21	3,789139E+22	2,879402E+21	4,077079E+22
2431	1,894577E+22	1,894656E+22	1,439700E+21	1,439811E+21	3,789233E+22	2,879511E+21	4,077184E+22
2432	1,894694E+22	1,894598E+22	1,439561E+21	1,439688E+21	3,789293E+22	2,879249E+21	4,077218E+22
2433	1,894617E+22	1,894695E+22	1,439811E+21	1,439524E+21	3,789313E+22	2,879335E+21	4,077246E+22
2434	1,894658E+22	1,894690E+22	1,439546E+21	1,439838E+21	3,789348E+22	2,879384E+21	4,077287E+22
2435	1,894710E+22	1,894594E+22	1,439650E+21	1,439591E+21	3,789304E+22	2,879241E+21	4,077228E+22
2436	1,894568E+22	1,894665E+22	1,439885E+21	1,439661E+21	3,789233E+22	2,879546E+21	4,077188E+22
2437	1,894599E+22	1,894574E+22	1,439638E+21	1,439916E+21	3,789173E+22	2,879555E+21	4,077128E+22
2438	1,894524E+22	1,894491E+22	1,439928E+21	1,439699E+21	3,789015E+22	2,879627E+21	4,076978E+22
2439	1,894395E+22	1,894489E+22	1,439958E+21	1,440011E+21	3,788883E+22	2,879969E+21	4,076880E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2440	1,894451E+22	1,894337E+22	1,439821E+21	1,440074E+21	3,788788E+22	2,879895E+21	4,076777E+22
2441	1,894340E+22	1,894341E+22	1,440160E+21	1,439870E+21	3,788681E+22	2,880030E+21	4,076684E+22
2442	1,894302E+22	1,894347E+22	1,439985E+21	1,440202E+21	3,788649E+22	2,880187E+21	4,076668E+22
2443	1,894348E+22	1,894240E+22	1,440004E+21	1,440030E+21	3,788588E+22	2,880034E+21	4,076592E+22
2444	1,894207E+22	1,894328E+22	1,440251E+21	1,439958E+21	3,788535E+22	2,880209E+21	4,076555E+22
2445	1,894276E+22	1,894303E+22	1,439942E+21	1,440219E+21	3,788579E+22	2,880161E+21	4,076595E+22
2446	1,894325E+22	1,894267E+22	1,440064E+21	1,439882E+21	3,788592E+22	2,879946E+21	4,076587E+22
2447	1,894288E+22	1,894379E+22	1,440085E+21	1,439975E+21	3,788667E+22	2,880060E+21	4,076673E+22
2448	1,894443E+22	1,894357E+22	1,439776E+21	1,440034E+21	3,788800E+22	2,879810E+21	4,076781E+22
2449	1,894436E+22	1,894431E+22	1,439982E+21	1,439696E+21	3,788867E+22	2,879678E+21	4,076835E+22
2450	1,894434E+22	1,894529E+22	1,439832E+21	1,439966E+21	3,788963E+22	2,879798E+21	4,076943E+22
2451	1,894551E+22	1,894459E+22	1,439693E+21	1,439828E+21	3,789010E+22	2,879522E+21	4,076962E+22
2452	1,894464E+22	1,894532E+22	1,439990E+21	1,439663E+21	3,788996E+22	2,879653E+21	4,076961E+22
2453	1,894503E+22	1,894535E+22	1,439745E+21	1,439970E+21	3,789037E+22	2,879715E+21	4,077009E+22
2454	1,894529E+22	1,894440E+22	1,439843E+21	1,439749E+21	3,788969E+22	2,879592E+21	4,076928E+22
2455	1,894382E+22	1,894478E+22	1,440058E+21	1,439868E+21	3,788860E+22	2,879926E+21	4,076852E+22
2456	1,894412E+22	1,894382E+22	1,439797E+21	1,440138E+21	3,788795E+22	2,879935E+21	4,076788E+22
2457	1,894347E+22	1,894295E+22	1,440080E+21	1,439910E+21	3,788642E+22	2,879990E+21	4,076641E+22
2458	1,894239E+22	1,894313E+22	1,440119E+21	1,440185E+21	3,788552E+22	2,880304E+21	4,076583E+22
2459	1,894302E+22	1,894179E+22	1,439983E+21	1,440218E+21	3,788480E+22	2,880201E+21	4,076500E+22
2460	1,894170E+22	1,894179E+22	1,440357E+21	1,440021E+21	3,788349E+22	2,880378E+21	4,076386E+22
2461	1,894122E+22	1,894202E+22	1,440188E+21	1,440353E+21	3,788324E+22	2,880541E+21	4,076378E+22
2462	1,894160E+22	1,894088E+22	1,440183E+21	1,440198E+21	3,788248E+22	2,880381E+21	4,076286E+22
2463	1,894045E+22	1,894139E+22	1,440401E+21	1,440135E+21	3,788184E+22	2,880536E+21	4,076238E+22
2464	1,894141E+22	1,894133E+22	1,440068E+21	1,440373E+21	3,788273E+22	2,880441E+21	4,076318E+22
2465	1,894199E+22	1,894116E+22	1,440180E+21	1,440019E+21	3,788314E+22	2,880199E+21	4,076334E+22
2466	1,894164E+22	1,894257E+22	1,440209E+21	1,440103E+21	3,788421E+22	2,880311E+21	4,076452E+22
2467	1,894305E+22	1,894245E+22	1,439897E+21	1,440155E+21	3,788549E+22	2,880052E+21	4,076555E+22
2468	1,894279E+22	1,894294E+22	1,440142E+21	1,439837E+21	3,788573E+22	2,879979E+21	4,076570E+22
2469	1,894283E+22	1,894392E+22	1,440010E+21	1,440090E+21	3,788674E+22	2,880100E+21	4,076684E+22
2470	1,894394E+22	1,894315E+22	1,439866E+21	1,439964E+21	3,788710E+22	2,879830E+21	4,076693E+22
2471	1,894315E+22	1,894355E+22	1,440155E+21	1,439831E+21	3,788670E+22	2,879987E+21	4,076668E+22
2472	1,894343E+22	1,894366E+22	1,439898E+21	1,440157E+21	3,788709E+22	2,880055E+21	4,076715E+22
2473	1,894352E+22	1,894267E+22	1,439989E+21	1,439962E+21	3,788619E+22	2,879951E+21	4,076614E+22
2474	1,894214E+22	1,894302E+22	1,440209E+21	1,440076E+21	3,788516E+22	2,880285E+21	4,076545E+22
2475	1,894255E+22	1,894204E+22	1,439952E+21	1,440310E+21	3,788459E+22	2,880262E+21	4,076485E+22
2476	1,894187E+22	1,894114E+22	1,440272E+21	1,440070E+21	3,788300E+22	2,880343E+21	4,076335E+22
2477	1,894076E+22	1,894156E+22	1,440332E+21	1,440315E+21	3,788232E+22	2,880647E+21	4,076297E+22
2478	1,894111E+22	1,894031E+22	1,440190E+21	1,440371E+21	3,788141E+22	2,880561E+21	4,076197E+22
2479	1,893975E+22	1,894000E+22	1,440537E+21	1,440209E+21	3,787975E+22	2,880747E+21	4,076050E+22
2480	1,893935E+22	1,894020E+22	1,440345E+21	1,440539E+21	3,787955E+22	2,880885E+21	4,076044E+22
2481	1,893991E+22	1,893908E+22	1,440318E+21	1,440374E+21	3,787899E+22	2,880692E+21	4,075969E+22
2482	1,893914E+22	1,893980E+22	1,440524E+21	1,440281E+21	3,787894E+22	2,880805E+21	4,075974E+22
2483	1,894022E+22	1,893997E+22	1,440191E+21	1,440487E+21	3,788019E+22	2,880678E+21	4,076086E+22
2484	1,894064E+22	1,893988E+22	1,440328E+21	1,440149E+21	3,788051E+22	2,880476E+21	4,076099E+22
2485	1,894018E+22	1,894144E+22	1,440370E+21	1,440229E+21	3,788162E+22	2,880599E+21	4,076222E+22
2486	1,894146E+22	1,894120E+22	1,440057E+21	1,440301E+21	3,788266E+22	2,880358E+21	4,076301E+22
2487	1,894134E+22	1,894124E+22	1,440289E+21	1,440004E+21	3,788258E+22	2,880293E+21	4,076287E+22
2488	1,894145E+22	1,894226E+22	1,440150E+21	1,440243E+21	3,788371E+22	2,880393E+21	4,076410E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2489	1,894247E+22	1,894154E+22	1,440002E+21	1,440128E+21	3,788401E+22	2,880131E+21	4,076414E+22
2490	1,894164E+22	1,894200E+22	1,440292E+21	1,440006E+21	3,788364E+22	2,880298E+21	4,076394E+22
2491	1,894180E+22	1,894211E+22	1,440040E+21	1,440323E+21	3,788391E+22	2,880364E+21	4,076427E+22
2492	1,894177E+22	1,894091E+22	1,440167E+21	1,440141E+21	3,788268E+22	2,880309E+21	4,076299E+22
2493	1,894046E+22	1,894137E+22	1,440407E+21	1,440221E+21	3,788184E+22	2,880629E+21	4,076246E+22
2494	1,894084E+22	1,894044E+22	1,440158E+21	1,440461E+21	3,788128E+22	2,880618E+21	4,076190E+22
2495	1,894014E+22	1,893927E+22	1,440471E+21	1,440249E+21	3,787942E+22	2,880720E+21	4,076014E+22
2496	1,893892E+22	1,893984E+22	1,440514E+21	1,440498E+21	3,787876E+22	2,881013E+21	4,075978E+22
2497	1,893913E+22	1,893856E+22	1,440354E+21	1,440577E+21	3,787769E+22	2,880931E+21	4,075862E+22
2498	1,893800E+22	1,893819E+22	1,440683E+21	1,440407E+21	3,787619E+22	2,881090E+21	4,075728E+22
2499	1,893784E+22	1,893846E+22	1,440479E+21	1,440686E+21	3,787630E+22	2,881165E+21	4,075747E+22
2500	1,893850E+22	1,893744E+22	1,440472E+21	1,440510E+21	3,787593E+22	2,880981E+21	4,075691E+22
2501	1,893781E+22	1,893851E+22	1,440687E+21	1,440387E+21	3,787632E+22	2,881074E+21	4,075739E+22
2502	1,893872E+22	1,893883E+22	1,440355E+21	1,440617E+21	3,787754E+22	2,880972E+21	4,075852E+22
2503	1,893909E+22	1,893843E+22	1,440472E+21	1,440312E+21	3,787752E+22	2,880784E+21	4,075831E+22
2504	1,893870E+22	1,893995E+22	1,440504E+21	1,440381E+21	3,787865E+22	2,880884E+21	4,075954E+22
2505	1,894001E+22	1,893967E+22	1,440182E+21	1,440448E+21	3,787968E+22	2,880630E+21	4,076031E+22
2506	1,894011E+22	1,893973E+22	1,440411E+21	1,440149E+21	3,787984E+22	2,880560E+21	4,076040E+22
2507	1,894016E+22	1,894083E+22	1,440284E+21	1,440365E+21	3,788099E+22	2,880649E+21	4,076164E+22
2508	1,894090E+22	1,894010E+22	1,440168E+21	1,440288E+21	3,788100E+22	2,880456E+21	4,076146E+22
2509	1,893997E+22	1,894058E+22	1,440468E+21	1,440164E+21	3,788056E+22	2,880632E+21	4,076119E+22
2510	1,894002E+22	1,894051E+22	1,440233E+21	1,440500E+21	3,788053E+22	2,880733E+21	4,076126E+22
2511	1,894009E+22	1,893896E+22	1,440347E+21	1,440329E+21	3,787906E+22	2,880676E+21	4,075973E+22
2512	1,893884E+22	1,893952E+22	1,440585E+21	1,440389E+21	3,787836E+22	2,880973E+21	4,075934E+22
2513	1,893902E+22	1,893870E+22	1,440339E+21	1,440638E+21	3,787771E+22	2,880977E+21	4,075869E+22
2514	1,893831E+22	1,893757E+22	1,440638E+21	1,440448E+21	3,787588E+22	2,881086E+21	4,075696E+22
2515	1,893702E+22	1,893811E+22	1,440672E+21	1,440673E+21	3,787513E+22	2,881345E+21	4,075648E+22
2516	1,893725E+22	1,893672E+22	1,440528E+21	1,440761E+21	3,787397E+22	2,881289E+21	4,075526E+22
2517	1,893637E+22	1,893653E+22	1,440850E+21	1,440545E+21	3,787291E+22	2,881395E+21	4,075430E+22
2518	1,893637E+22	1,893695E+22	1,440653E+21	1,440821E+21	3,787331E+22	2,881475E+21	4,075479E+22
2519	1,893709E+22	1,893585E+22	1,440629E+21	1,440663E+21	3,787294E+22	2,881291E+21	4,075423E+22
2520	1,893638E+22	1,893715E+22	1,440825E+21	1,440539E+21	3,787353E+22	2,881365E+21	4,075490E+22
2521	1,893717E+22	1,893747E+22	1,440489E+21	1,440781E+21	3,787463E+22	2,881270E+21	4,075590E+22
2522	1,893774E+22	1,893697E+22	1,440589E+21	1,440475E+21	3,787471E+22	2,881064E+21	4,075577E+22
2523	1,893747E+22	1,893851E+22	1,440620E+21	1,440491E+21	3,787597E+22	2,881111E+21	4,075709E+22
2524	1,893867E+22	1,893824E+22	1,440330E+21	1,440567E+21	3,787691E+22	2,880897E+21	4,075781E+22
2525	1,893866E+22	1,893848E+22	1,440575E+21	1,440259E+21	3,787714E+22	2,880835E+21	4,075798E+22
2526	1,893850E+22	1,893953E+22	1,440462E+21	1,440514E+21	3,787804E+22	2,880976E+21	4,075901E+22
2527	1,893913E+22	1,893838E+22	1,440337E+21	1,440479E+21	3,787751E+22	2,880816E+21	4,075833E+22
2528	1,893831E+22	1,893881E+22	1,440625E+21	1,440346E+21	3,787712E+22	2,880971E+21	4,075809E+22
2529	1,893836E+22	1,893872E+22	1,440395E+21	1,440675E+21	3,787708E+22	2,881070E+21	4,075815E+22
2530	1,893859E+22	1,893721E+22	1,440504E+21	1,440512E+21	3,787580E+22	2,881017E+21	4,075681E+22
2531	1,893724E+22	1,893787E+22	1,440748E+21	1,440541E+21	3,787511E+22	2,881288E+21	4,075640E+22
2532	1,893712E+22	1,893705E+22	1,440528E+21	1,440825E+21	3,787417E+22	2,881354E+21	4,075552E+22
2533	1,893637E+22	1,893594E+22	1,440830E+21	1,440625E+21	3,787232E+22	2,881455E+21	4,075377E+22
2534	1,893517E+22	1,893633E+22	1,440866E+21	1,440852E+21	3,787151E+22	2,881718E+21	4,075322E+22
2535	1,893559E+22	1,893473E+22	1,440701E+21	1,440938E+21	3,787032E+22	2,881640E+21	4,075196E+22
2536	1,893493E+22	1,893480E+22	1,441000E+21	1,440696E+21	3,786973E+22	2,881696E+21	4,075143E+22
2537	1,893483E+22	1,893545E+22	1,440808E+21	1,440972E+21	3,787028E+22	2,881780E+21	4,075206E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2538	1,893563E+22	1,893449E+22	1,440757E+21	1,440829E+21	3,787012E+22	2,881586E+21	4,075170E+22
2539	1,893492E+22	1,893579E+22	1,440950E+21	1,440666E+21	3,787071E+22	2,881615E+21	4,075233E+22
2540	1,893566E+22	1,893607E+22	1,440639E+21	1,440911E+21	3,787173E+22	2,881550E+21	4,075328E+22
2541	1,893636E+22	1,893570E+22	1,440737E+21	1,440577E+21	3,787206E+22	2,881314E+21	4,075337E+22
2542	1,893608E+22	1,893718E+22	1,440787E+21	1,440610E+21	3,787325E+22	2,881397E+21	4,075465E+22
2543	1,893716E+22	1,893672E+22	1,440490E+21	1,440724E+21	3,787388E+22	2,881214E+21	4,075509E+22
2544	1,893712E+22	1,893699E+22	1,440715E+21	1,440435E+21	3,787411E+22	2,881150E+21	4,075526E+22
2545	1,893683E+22	1,893790E+22	1,440613E+21	1,440706E+21	3,787474E+22	2,881319E+21	4,075606E+22
2546	1,893769E+22	1,893662E+22	1,440469E+21	1,440677E+21	3,787431E+22	2,881146E+21	4,075545E+22
2547	1,893694E+22	1,893709E+22	1,440760E+21	1,440490E+21	3,787403E+22	2,881250E+21	4,075528E+22
2548	1,893680E+22	1,893709E+22	1,440575E+21	1,440826E+21	3,787389E+22	2,881401E+21	4,075529E+22
2549	1,893683E+22	1,893577E+22	1,440699E+21	1,440661E+21	3,787260E+22	2,881360E+21	4,075396E+22
2550	1,893527E+22	1,893631E+22	1,440956E+21	1,440720E+21	3,787159E+22	2,881676E+21	4,075326E+22
2551	1,893506E+22	1,893510E+22	1,440729E+21	1,441028E+21	3,787016E+22	2,881757E+21	4,075192E+22
2552	1,893454E+22	1,893398E+22	1,441002E+21	1,440812E+21	3,786852E+22	2,881814E+21	4,075033E+22
2553	1,893348E+22	1,893443E+22	1,441037E+21	1,441020E+21	3,786791E+22	2,882057E+21	4,074997E+22
2554	1,893418E+22	1,893300E+22	1,440849E+21	1,441111E+21	3,786718E+22	2,881960E+21	4,074914E+22
2555	1,893355E+22	1,893336E+22	1,441133E+21	1,440832E+21	3,786691E+22	2,881964E+21	4,074887E+22
2556	1,893326E+22	1,893412E+22	1,440966E+21	1,441129E+21	3,786738E+22	2,882095E+21	4,074948E+22
2557	1,893402E+22	1,893326E+22	1,440916E+21	1,440965E+21	3,786728E+22	2,881881E+21	4,074916E+22
2558	1,893344E+22	1,893441E+22	1,441111E+21	1,440798E+21	3,786785E+22	2,881909E+21	4,074976E+22
2559	1,893419E+22	1,893444E+22	1,440792E+21	1,441041E+21	3,786864E+22	2,881833E+21	4,075047E+22
2560	1,893500E+22	1,893421E+22	1,440875E+21	1,440708E+21	3,786920E+22	2,881583E+21	4,075079E+22
2561	1,893457E+22	1,893573E+22	1,440932E+21	1,440762E+21	3,787030E+22	2,881694E+21	4,075199E+22
2562	1,893570E+22	1,893523E+22	1,440612E+21	1,440913E+21	3,787093E+22	2,881525E+21	4,075246E+22
2563	1,893571E+22	1,893545E+22	1,440826E+21	1,440592E+21	3,787117E+22	2,881418E+21	4,075258E+22
2564	1,893537E+22	1,893633E+22	1,440762E+21	1,440861E+21	3,787169E+22	2,881623E+21	4,075332E+22
2565	1,893623E+22	1,893522E+22	1,440637E+21	1,440802E+21	3,787145E+22	2,881439E+21	4,075289E+22
2566	1,893541E+22	1,893561E+22	1,440959E+21	1,440632E+21	3,787102E+22	2,881592E+21	4,075261E+22
2567	1,893495E+22	1,893541E+22	1,440782E+21	1,440999E+21	3,787036E+22	2,881781E+21	4,075214E+22
2568	1,893490E+22	1,893404E+22	1,440889E+21	1,440864E+21	3,786894E+22	2,881753E+21	4,075069E+22
2569	1,893326E+22	1,893435E+22	1,441149E+21	1,440932E+21	3,786761E+22	2,882081E+21	4,074969E+22
2570	1,893335E+22	1,893306E+22	1,440886E+21	1,441242E+21	3,786640E+22	2,882128E+21	4,074853E+22
2571	1,893305E+22	1,893208E+22	1,441137E+21	1,440966E+21	3,786513E+22	2,882103E+21	4,074723E+22
2572	1,893192E+22	1,893278E+22	1,441206E+21	1,441174E+21	3,786469E+22	2,882380E+21	4,074707E+22
2573	1,893253E+22	1,893172E+22	1,441022E+21	1,441249E+21	3,786425E+22	2,882270E+21	4,074652E+22
2574	1,893185E+22	1,893201E+22	1,441310E+21	1,440987E+21	3,786387E+22	2,882297E+21	4,074616E+22
2575	1,893149E+22	1,893252E+22	1,441141E+21	1,441285E+21	3,786401E+22	2,882426E+21	4,074643E+22
2576	1,893249E+22	1,893169E+22	1,441059E+21	1,441108E+21	3,786417E+22	2,882167E+21	4,074634E+22
2577	1,893200E+22	1,893281E+22	1,441255E+21	1,440932E+21	3,786481E+22	2,882187E+21	4,074699E+22
2578	1,893294E+22	1,893293E+22	1,440910E+21	1,441194E+21	3,786587E+22	2,882104E+21	4,074798E+22
2579	1,893375E+22	1,893285E+22	1,440974E+21	1,440845E+21	3,786659E+22	2,881820E+21	4,074841E+22
2580	1,893315E+22	1,893438E+22	1,441066E+21	1,440929E+21	3,786754E+22	2,881995E+21	4,074953E+22
2581	1,893426E+22	1,893395E+22	1,440762E+21	1,441058E+21	3,786821E+22	2,881820E+21	4,075003E+22
2582	1,893436E+22	1,893400E+22	1,440989E+21	1,440734E+21	3,786837E+22	2,881724E+21	4,075009E+22
2583	1,893385E+22	1,893468E+22	1,440944E+21	1,440996E+21	3,786853E+22	2,881940E+21	4,075047E+22
2584	1,893463E+22	1,893366E+22	1,440819E+21	1,440952E+21	3,786829E+22	2,881771E+21	4,075006E+22
2585	1,893352E+22	1,893396E+22	1,441156E+21	1,440814E+21	3,786748E+22	2,881970E+21	4,074945E+22
2586	1,893304E+22	1,893358E+22	1,440954E+21	1,441216E+21	3,786662E+22	2,882170E+21	4,074879E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2587	1,893308E+22	1,893213E+22	1,441039E+21	1,441056E+21	3,786521E+22	2,882094E+21	4,074731E+22
2588	1,893153E+22	1,893242E+22	1,441314E+21	1,441118E+21	3,786395E+22	2,882432E+21	4,074638E+22
2589	1,893172E+22	1,893139E+22	1,441063E+21	1,441391E+21	3,786310E+22	2,882454E+21	4,074556E+22
2590	1,893151E+22	1,893052E+22	1,441319E+21	1,441119E+21	3,786203E+22	2,882438E+21	4,074447E+22
2591	1,893016E+22	1,893118E+22	1,441394E+21	1,441337E+21	3,786135E+22	2,882731E+21	4,074408E+22
2592	1,893079E+22	1,893022E+22	1,441195E+21	1,441423E+21	3,786101E+22	2,882618E+21	4,074362E+22
2593	1,893014E+22	1,893036E+22	1,441479E+21	1,441157E+21	3,786050E+22	2,882636E+21	4,074314E+22
2594	1,893006E+22	1,893080E+22	1,441270E+21	1,441445E+21	3,786086E+22	2,882715E+21	4,074358E+22
2595	1,893124E+22	1,893014E+22	1,441162E+21	1,441225E+21	3,786138E+22	2,882387E+21	4,074377E+22
2596	1,893067E+22	1,893141E+22	1,441383E+21	1,441066E+21	3,786208E+22	2,882448E+21	4,074453E+22
2597	1,893151E+22	1,893181E+22	1,441052E+21	1,441320E+21	3,786332E+22	2,882372E+21	4,074569E+22
2598	1,893231E+22	1,893162E+22	1,441123E+21	1,440992E+21	3,786393E+22	2,882114E+21	4,074604E+22
2599	1,893160E+22	1,893287E+22	1,441229E+21	1,441074E+21	3,786447E+22	2,882303E+21	4,074678E+22
2600	1,893284E+22	1,893246E+22	1,440920E+21	1,441196E+21	3,786529E+22	2,882116E+21	4,074741E+22
2601	1,893287E+22	1,893241E+22	1,441165E+21	1,440882E+21	3,786528E+22	2,882047E+21	4,074732E+22
2602	1,893235E+22	1,893305E+22	1,441103E+21	1,441170E+21	3,786540E+22	2,882272E+21	4,074767E+22
2603	1,893298E+22	1,893206E+22	1,440960E+21	1,441133E+21	3,786504E+22	2,882092E+21	4,074713E+22
2604	1,893167E+22	1,893220E+22	1,441325E+21	1,441029E+21	3,786387E+22	2,882354E+21	4,074622E+22
2605	1,893122E+22	1,893184E+22	1,441129E+21	1,441401E+21	3,786306E+22	2,882530E+21	4,074559E+22
2606	1,893146E+22	1,893026E+22	1,441214E+21	1,441229E+21	3,786172E+22	2,882443E+21	4,074416E+22
2607	1,892983E+22	1,893051E+22	1,441502E+21	1,441274E+21	3,786034E+22	2,882776E+21	4,074311E+22
2608	1,893004E+22	1,892973E+22	1,441253E+21	1,441550E+21	3,785977E+22	2,882803E+21	4,074257E+22
2609	1,892965E+22	1,892892E+22	1,441511E+21	1,441298E+21	3,785857E+22	2,882809E+21	4,074138E+22
2610	1,892841E+22	1,892950E+22	1,441551E+21	1,441526E+21	3,785791E+22	2,883078E+21	4,074098E+22
2611	1,892919E+22	1,892856E+22	1,441323E+21	1,441576E+21	3,785775E+22	2,882899E+21	4,074065E+22
2612	1,892864E+22	1,892874E+22	1,441615E+21	1,441305E+21	3,785738E+22	2,882919E+21	4,074030E+22
2613	1,892867E+22	1,892945E+22	1,441415E+21	1,441553E+21	3,785812E+22	2,882969E+21	4,074109E+22
2614	1,892993E+22	1,892887E+22	1,441308E+21	1,441350E+21	3,785880E+22	2,882659E+21	4,074146E+22
2615	1,892916E+22	1,893006E+22	1,441535E+21	1,441212E+21	3,785922E+22	2,882746E+21	4,074196E+22
2616	1,893003E+22	1,893047E+22	1,441207E+21	1,441479E+21	3,786050E+22	2,882687E+21	4,074319E+22
2617	1,893086E+22	1,893011E+22	1,441278E+21	1,441153E+21	3,786097E+22	2,882431E+21	4,074340E+22
2618	1,893035E+22	1,893122E+22	1,441356E+21	1,441226E+21	3,786158E+22	2,882582E+21	4,074416E+22
2619	1,893156E+22	1,893094E+22	1,441040E+21	1,441323E+21	3,786250E+22	2,882363E+21	4,074486E+22
2620	1,893134E+22	1,893092E+22	1,441315E+21	1,441048E+21	3,786226E+22	2,882363E+21	4,074462E+22
2621	1,893056E+22	1,893165E+22	1,441273E+21	1,441330E+21	3,786221E+22	2,882603E+21	4,074481E+22
2622	1,893118E+22	1,893045E+22	1,441138E+21	1,441316E+21	3,786163E+22	2,882455E+21	4,074408E+22
2623	1,892980E+22	1,893027E+22	1,441510E+21	1,441206E+21	3,786007E+22	2,882716E+21	4,074278E+22
2624	1,892953E+22	1,892996E+22	1,441317E+21	1,441563E+21	3,785950E+22	2,882880E+21	4,074238E+22
2625	1,892976E+22	1,892844E+22	1,441410E+21	1,441396E+21	3,785820E+22	2,882806E+21	4,074101E+22
2626	1,892820E+22	1,892874E+22	1,441666E+21	1,441458E+21	3,785694E+22	2,883124E+21	4,074006E+22
2627	1,892834E+22	1,892814E+22	1,441404E+21	1,441731E+21	3,785648E+22	2,883135E+21	4,073962E+22
2628	1,892786E+22	1,892727E+22	1,441675E+21	1,441503E+21	3,785513E+22	2,883177E+21	4,073830E+22
2629	1,892672E+22	1,892794E+22	1,441716E+21	1,441677E+21	3,785466E+22	2,883393E+21	4,073805E+22
2630	1,892773E+22	1,892698E+22	1,441478E+21	1,441708E+21	3,785472E+22	2,883186E+21	4,073790E+22
2631	1,892709E+22	1,892714E+22	1,441774E+21	1,441428E+21	3,785423E+22	2,883202E+21	4,073743E+22
2632	1,892717E+22	1,892806E+22	1,441577E+21	1,441685E+21	3,785523E+22	2,883262E+21	4,073849E+22
2633	1,892832E+22	1,892749E+22	1,441468E+21	1,441511E+21	3,785582E+22	2,882980E+21	4,073880E+22
2634	1,892775E+22	1,892854E+22	1,441654E+21	1,441387E+21	3,785629E+22	2,883041E+21	4,073933E+22
2635	1,892878E+22	1,892899E+22	1,441312E+21	1,441621E+21	3,785777E+22	2,882933E+21	4,074071E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2636	1,892959E+22	1,892863E+22	1,441399E+21	1,441300E+21	3,785822E+22	2,882699E+21	4,074092E+22
2637	1,892903E+22	1,892995E+22	1,441499E+21	1,441335E+21	3,785898E+22	2,882835E+21	4,074181E+22
2638	1,893012E+22	1,892964E+22	1,441198E+21	1,441456E+21	3,785975E+22	2,882654E+21	4,074241E+22
2639	1,892953E+22	1,892939E+22	1,441495E+21	1,441218E+21	3,785892E+22	2,882712E+21	4,074164E+22
2640	1,892876E+22	1,892997E+22	1,441466E+21	1,441511E+21	3,785873E+22	2,882977E+21	4,074171E+22
2641	1,892938E+22	1,892856E+22	1,441332E+21	1,441507E+21	3,785795E+22	2,882839E+21	4,074078E+22
2642	1,892825E+22	1,892826E+22	1,441659E+21	1,441391E+21	3,785651E+22	2,883050E+21	4,073956E+22
2643	1,892799E+22	1,892816E+22	1,441467E+21	1,441725E+21	3,785615E+22	2,883192E+21	4,073935E+22
2644	1,892802E+22	1,892679E+22	1,441577E+21	1,441590E+21	3,785480E+22	2,883168E+21	4,073797E+22
2645	1,892634E+22	1,892726E+22	1,441845E+21	1,441627E+21	3,785360E+22	2,883472E+21	4,073707E+22
2646	1,892654E+22	1,892656E+22	1,441589E+21	1,441900E+21	3,785310E+22	2,883489E+21	4,073659E+22
2647	1,892602E+22	1,892551E+22	1,441857E+21	1,441661E+21	3,785153E+22	2,883519E+21	4,073505E+22
2648	1,892510E+22	1,892626E+22	1,441896E+21	1,441810E+21	3,785136E+22	2,883706E+21	4,073506E+22
2649	1,892615E+22	1,892539E+22	1,441654E+21	1,441854E+21	3,785154E+22	2,883508E+21	4,073505E+22
2650	1,892569E+22	1,892555E+22	1,441896E+21	1,441593E+21	3,785124E+22	2,883490E+21	4,073473E+22
2651	1,892580E+22	1,892665E+22	1,441691E+21	1,441849E+21	3,785244E+22	2,883540E+21	4,073598E+22
2652	1,892694E+22	1,892608E+22	1,441586E+21	1,441690E+21	3,785302E+22	2,883276E+21	4,073630E+22
2653	1,892650E+22	1,892721E+22	1,441777E+21	1,441508E+21	3,785371E+22	2,883285E+21	4,073699E+22
2654	1,892763E+22	1,892769E+22	1,441449E+21	1,441719E+21	3,785531E+22	2,883168E+21	4,073848E+22
2655	1,892813E+22	1,892727E+22	1,441558E+21	1,441412E+21	3,785540E+22	2,882971E+21	4,073837E+22
2656	1,892741E+22	1,892860E+22	1,441683E+21	1,441465E+21	3,785602E+22	2,883148E+21	4,073916E+22
2657	1,892824E+22	1,892814E+22	1,441391E+21	1,441631E+21	3,785638E+22	2,883023E+21	4,073941E+22
2658	1,892780E+22	1,892754E+22	1,441645E+21	1,441418E+21	3,785534E+22	2,883062E+21	4,073840E+22
2659	1,892718E+22	1,892810E+22	1,441607E+21	1,441689E+21	3,785528E+22	2,883296E+21	4,073858E+22
2660	1,892780E+22	1,892672E+22	1,441485E+21	1,441699E+21	3,785453E+22	2,883183E+21	4,073771E+22
2661	1,892668E+22	1,892665E+22	1,441822E+21	1,441548E+21	3,785334E+22	2,883370E+21	4,073671E+22
2662	1,892636E+22	1,892664E+22	1,441647E+21	1,441892E+21	3,785300E+22	2,883539E+21	4,073654E+22
2663	1,892604E+22	1,892516E+22	1,441777E+21	1,441784E+21	3,785120E+22	2,883561E+21	4,073476E+22
2664	1,892446E+22	1,892553E+22	1,442053E+21	1,441807E+21	3,784999E+22	2,883859E+21	4,073385E+22
2665	1,892472E+22	1,892472E+22	1,441791E+21	1,442072E+21	3,784944E+22	2,883863E+21	4,073330E+22
2666	1,892446E+22	1,892360E+22	1,442001E+21	1,441826E+21	3,784806E+22	2,883827E+21	4,073189E+22
2667	1,892366E+22	1,892458E+22	1,442025E+21	1,441956E+21	3,784823E+22	2,883981E+21	4,073222E+22
2668	1,892457E+22	1,892390E+22	1,441786E+21	1,442031E+21	3,784847E+22	2,883817E+21	4,073229E+22
2669	1,892420E+22	1,892427E+22	1,442020E+21	1,441739E+21	3,784847E+22	2,883760E+21	4,073223E+22
2670	1,892448E+22	1,892534E+22	1,441827E+21	1,441975E+21	3,784982E+22	2,883802E+21	4,073362E+22
2671	1,892552E+22	1,892472E+22	1,441735E+21	1,441804E+21	3,785024E+22	2,883539E+21	4,073378E+22
2672	1,892520E+22	1,892590E+22	1,441943E+21	1,441602E+21	3,785110E+22	2,883545E+21	4,073464E+22
2673	1,892613E+22	1,892637E+22	1,441630E+21	1,441838E+21	3,785251E+22	2,883468E+21	4,073597E+22
2674	1,892659E+22	1,892578E+22	1,441696E+21	1,441583E+21	3,785238E+22	2,883279E+21	4,073565E+22
2675	1,892582E+22	1,892703E+22	1,441819E+21	1,441657E+21	3,785284E+22	2,883476E+21	4,073632E+22
2676	1,892658E+22	1,892641E+22	1,441537E+21	1,441848E+21	3,785299E+22	2,883385E+21	4,073637E+22
2677	1,892634E+22	1,892583E+22	1,441781E+21	1,441584E+21	3,785216E+22	2,883365E+21	4,073553E+22
2678	1,892582E+22	1,892642E+22	1,441765E+21	1,441829E+21	3,785224E+22	2,883593E+21	4,073584E+22
2679	1,892610E+22	1,892511E+22	1,441671E+21	1,441854E+21	3,785121E+22	2,883525E+21	4,073474E+22
2680	1,892486E+22	1,892510E+22	1,442033E+21	1,441712E+21	3,784995E+22	2,883745E+21	4,073370E+22
2681	1,892432E+22	1,892500E+22	1,441874E+21	1,442082E+21	3,784932E+22	2,883956E+21	4,073328E+22
2682	1,892417E+22	1,892321E+22	1,441950E+21	1,441987E+21	3,784739E+22	2,883937E+21	4,073132E+22
2683	1,892278E+22	1,892359E+22	1,442208E+21	1,441980E+21	3,784637E+22	2,884187E+21	4,073056E+22
2684	1,892307E+22	1,892290E+22	1,441943E+21	1,442247E+21	3,784597E+22	2,884189E+21	4,073016E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2685	1,892294E+22	1,892204E+22	1,442138E+21	1,441967E+21	3,784498E+22	2,884105E+21	4,072909E+22
2686	1,892221E+22	1,892319E+22	1,442171E+21	1,442095E+21	3,784540E+22	2,884266E+21	4,072967E+22
2687	1,892293E+22	1,892253E+22	1,441948E+21	1,442190E+21	3,784546E+22	2,884138E+21	4,072960E+22
2688	1,892275E+22	1,892288E+22	1,442188E+21	1,441875E+21	3,784563E+22	2,884063E+21	4,072969E+22
2689	1,892309E+22	1,892392E+22	1,442001E+21	1,442099E+21	3,784700E+22	2,884100E+21	4,073110E+22
2690	1,892422E+22	1,892320E+22	1,441859E+21	1,441934E+21	3,784742E+22	2,883793E+21	4,073121E+22
2691	1,892385E+22	1,892446E+22	1,442068E+21	1,441741E+21	3,784832E+22	2,883808E+21	4,073212E+22
2692	1,892450E+22	1,892495E+22	1,441764E+21	1,442019E+21	3,784945E+22	2,883783E+21	4,073323E+22
2693	1,892500E+22	1,892434E+22	1,441824E+21	1,441758E+21	3,784934E+22	2,883582E+21	4,073292E+22
2694	1,892440E+22	1,892542E+22	1,441961E+21	1,441814E+21	3,784983E+22	2,883776E+21	4,073360E+22
2695	1,892503E+22	1,892474E+22	1,441702E+21	1,442004E+21	3,784977E+22	2,883706E+21	4,073347E+22
2696	1,892489E+22	1,892422E+22	1,441965E+21	1,441720E+21	3,784911E+22	2,883685E+21	4,073280E+22
2697	1,892416E+22	1,892486E+22	1,441974E+21	1,441984E+21	3,784902E+22	2,883958E+21	4,073298E+22
2698	1,892430E+22	1,892342E+22	1,441846E+21	1,442052E+21	3,784772E+22	2,883898E+21	4,073162E+22
2699	1,892303E+22	1,892332E+22	1,442208E+21	1,441924E+21	3,784634E+22	2,884132E+21	4,073048E+22
2700	1,892240E+22	1,892308E+22	1,442053E+21	1,442296E+21	3,784548E+22	2,884349E+21	4,072983E+22
2701	1,892250E+22	1,892137E+22	1,442106E+21	1,442155E+21	3,784387E+22	2,884260E+21	4,072813E+22
2702	1,892128E+22	1,892184E+22	1,442365E+21	1,442113E+21	3,784311E+22	2,884478E+21	4,072759E+22
2703	1,892130E+22	1,892131E+22	1,442119E+21	1,442394E+21	3,784261E+22	2,884514E+21	4,072712E+22
2704	1,892124E+22	1,892061E+22	1,442316E+21	1,442113E+21	3,784185E+22	2,884430E+21	4,072628E+22
2705	1,892051E+22	1,892174E+22	1,442359E+21	1,442255E+21	3,784225E+22	2,884615E+21	4,072687E+22
2706	1,892144E+22	1,892094E+22	1,442086E+21	1,442350E+21	3,784238E+22	2,884436E+21	4,072682E+22
2707	1,892149E+22	1,892135E+22	1,442309E+21	1,442016E+21	3,784284E+22	2,884325E+21	4,072717E+22
2708	1,892175E+22	1,892248E+22	1,442130E+21	1,442239E+21	3,784423E+22	2,884369E+21	4,072860E+22
2709	1,892292E+22	1,892192E+22	1,441972E+21	1,442066E+21	3,784484E+22	2,884039E+21	4,072888E+22
2710	1,892251E+22	1,892316E+22	1,442195E+21	1,441882E+21	3,784567E+22	2,884077E+21	4,072975E+22
2711	1,892287E+22	1,892354E+22	1,441922E+21	1,442187E+21	3,784640E+22	2,884109E+21	4,073051E+22
2712	1,892354E+22	1,892279E+22	1,441994E+21	1,441907E+21	3,784633E+22	2,883901E+21	4,073023E+22
2713	1,892297E+22	1,892382E+22	1,442146E+21	1,441957E+21	3,784679E+22	2,884104E+21	4,073090E+22
2714	1,892358E+22	1,892303E+22	1,441857E+21	1,442158E+21	3,784661E+22	2,884015E+21	4,073062E+22
2715	1,892329E+22	1,892258E+22	1,442126E+21	1,441895E+21	3,784587E+22	2,884021E+21	4,072989E+22
2716	1,892224E+22	1,892321E+22	1,442150E+21	1,442186E+21	3,784545E+22	2,884335E+21	4,072979E+22
2717	1,892243E+22	1,892171E+22	1,442013E+21	1,442247E+21	3,784414E+22	2,884260E+21	4,072840E+22
2718	1,892131E+22	1,892148E+22	1,442382E+21	1,442091E+21	3,784279E+22	2,884473E+21	4,072726E+22
2719	1,892054E+22	1,892125E+22	1,442243E+21	1,442455E+21	3,784179E+22	2,884698E+21	4,072649E+22
2720	1,892079E+22	1,891964E+22	1,442301E+21	1,442299E+21	3,784043E+22	2,884600E+21	4,072504E+22
2721	1,891953E+22	1,892021E+22	1,442561E+21	1,442277E+21	3,783975E+22	2,884839E+21	4,072458E+22
2722	1,891957E+22	1,891963E+22	1,442275E+21	1,442589E+21	3,783921E+22	2,884863E+21	4,072407E+22
2723	1,891969E+22	1,891897E+22	1,442456E+21	1,442310E+21	3,783866E+22	2,884766E+21	4,072343E+22
2724	1,891904E+22	1,892011E+22	1,442495E+21	1,442430E+21	3,783915E+22	2,884925E+21	4,072407E+22
2725	1,892022E+22	1,891949E+22	1,442198E+21	1,442476E+21	3,783972E+22	2,884674E+21	4,072439E+22
2726	1,892035E+22	1,892002E+22	1,442428E+21	1,442114E+21	3,784037E+22	2,884542E+21	4,072491E+22
2727	1,892019E+22	1,892125E+22	1,442281E+21	1,442357E+21	3,784144E+22	2,884639E+21	4,072608E+22
2728	1,892134E+22	1,892070E+22	1,442137E+21	1,442199E+21	3,784204E+22	2,884336E+21	4,072637E+22
2729	1,892093E+22	1,892174E+22	1,442371E+21	1,442038E+21	3,784267E+22	2,884409E+21	4,072708E+22
2730	1,892139E+22	1,892186E+22	1,442067E+21	1,442348E+21	3,784325E+22	2,884415E+21	4,072766E+22
2731	1,892223E+22	1,892114E+22	1,442129E+21	1,442064E+21	3,784337E+22	2,884193E+21	4,072756E+22
2732	1,892148E+22	1,892220E+22	1,442295E+21	1,442118E+21	3,784368E+22	2,884412E+21	4,072810E+22
2733	1,892204E+22	1,892156E+22	1,442003E+21	1,442321E+21	3,784360E+22	2,884324E+21	4,072793E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2734	1,892165E+22	1,892105E+22	1,442288E+21	1,442073E+21	3,784271E+22	2,884361E+21	4,072707E+22
2735	1,892027E+22	1,892152E+22	1,442348E+21	1,442376E+21	3,784179E+22	2,884724E+21	4,072652E+22
2736	1,892062E+22	1,891991E+22	1,442219E+21	1,442417E+21	3,784053E+22	2,884635E+21	4,072517E+22
2737	1,891957E+22	1,891961E+22	1,442586E+21	1,442256E+21	3,783918E+22	2,884842E+21	4,072402E+22
2738	1,891879E+22	1,891932E+22	1,442415E+21	1,442625E+21	3,783812E+22	2,885040E+21	4,072316E+22
2739	1,891907E+22	1,891787E+22	1,442459E+21	1,442491E+21	3,783694E+22	2,884950E+21	4,072189E+22
2740	1,891772E+22	1,891852E+22	1,442714E+21	1,442478E+21	3,783624E+22	2,885193E+21	4,072143E+22
2741	1,891802E+22	1,891805E+22	1,442413E+21	1,442765E+21	3,783607E+22	2,885177E+21	4,072125E+22
2742	1,891839E+22	1,891746E+22	1,442588E+21	1,442441E+21	3,783585E+22	2,885029E+21	4,072088E+22
2743	1,891761E+22	1,891873E+22	1,442650E+21	1,442536E+21	3,783633E+22	2,885186E+21	4,072152E+22
2744	1,891885E+22	1,891824E+22	1,442366E+21	1,442566E+21	3,783710E+22	2,884933E+21	4,072203E+22
2745	1,891884E+22	1,891880E+22	1,442600E+21	1,442243E+21	3,783764E+22	2,884843E+21	4,072248E+22
2746	1,891858E+22	1,891981E+22	1,442425E+21	1,442522E+21	3,783838E+22	2,884947E+21	4,072333E+22
2747	1,891984E+22	1,891912E+22	1,442274E+21	1,442385E+21	3,783896E+22	2,884660E+21	4,072362E+22
2748	1,891952E+22	1,892007E+22	1,442498E+21	1,442211E+21	3,783959E+22	2,884709E+21	4,072430E+22
2749	1,892019E+22	1,892029E+22	1,442185E+21	1,442489E+21	3,784048E+22	2,884674E+21	4,072515E+22
2750	1,892098E+22	1,891969E+22	1,442258E+21	1,442192E+21	3,784067E+22	2,884450E+21	4,072512E+22
2751	1,891976E+22	1,892081E+22	1,442464E+21	1,442267E+21	3,784057E+22	2,884731E+21	4,072530E+22
2752	1,892019E+22	1,892011E+22	1,442201E+21	1,442482E+21	3,784031E+22	2,884683E+21	4,072499E+22
2753	1,891977E+22	1,891938E+22	1,442499E+21	1,442262E+21	3,783915E+22	2,884762E+21	4,072391E+22
2754	1,891842E+22	1,891955E+22	1,442530E+21	1,442560E+21	3,783797E+22	2,885090E+21	4,072306E+22
2755	1,891895E+22	1,891795E+22	1,442392E+21	1,442606E+21	3,783689E+22	2,884998E+21	4,072189E+22
2756	1,891783E+22	1,891770E+22	1,442748E+21	1,442442E+21	3,783554E+22	2,885190E+21	4,072073E+22
2757	1,891716E+22	1,891762E+22	1,442561E+21	1,442810E+21	3,783478E+22	2,885371E+21	4,072015E+22
2758	1,891748E+22	1,891630E+22	1,442605E+21	1,442669E+21	3,783378E+22	2,885274E+21	4,071906E+22
2759	1,891601E+22	1,891696E+22	1,442887E+21	1,442644E+21	3,783297E+22	2,885530E+21	4,071850E+22
2760	1,891654E+22	1,891660E+22	1,442599E+21	1,442887E+21	3,783314E+22	2,885485E+21	4,071862E+22
2761	1,891696E+22	1,891606E+22	1,442765E+21	1,442560E+21	3,783302E+22	2,885326E+21	4,071835E+22
2762	1,891603E+22	1,891723E+22	1,442804E+21	1,442658E+21	3,783327E+22	2,885462E+21	4,071873E+22
2763	1,891725E+22	1,891683E+22	1,442507E+21	1,442724E+21	3,783408E+22	2,885231E+21	4,071931E+22
2764	1,891716E+22	1,891728E+22	1,442728E+21	1,442419E+21	3,783444E+22	2,885147E+21	4,071958E+22
2765	1,891721E+22	1,891826E+22	1,442539E+21	1,442684E+21	3,783547E+22	2,885224E+21	4,072069E+22
2766	1,891870E+22	1,891765E+22	1,442383E+21	1,442518E+21	3,783635E+22	2,884900E+21	4,072125E+22
2767	1,891821E+22	1,891867E+22	1,442635E+21	1,442334E+21	3,783688E+22	2,884969E+21	4,072185E+22
2768	1,891884E+22	1,891903E+22	1,442357E+21	1,442600E+21	3,783787E+22	2,884957E+21	4,072282E+22
2769	1,891939E+22	1,891840E+22	1,442441E+21	1,442352E+21	3,783779E+22	2,884793E+21	4,072258E+22
2770	1,891793E+22	1,891917E+22	1,442643E+21	1,442452E+21	3,783711E+22	2,885095E+21	4,072220E+22
2771	1,891843E+22	1,891829E+22	1,442383E+21	1,442687E+21	3,783671E+22	2,885070E+21	4,072178E+22
2772	1,891802E+22	1,891741E+22	1,442669E+21	1,442456E+21	3,783542E+22	2,885125E+21	4,072055E+22
2773	1,891688E+22	1,891763E+22	1,442683E+21	1,442730E+21	3,783451E+22	2,885413E+21	4,071992E+22
2774	1,891735E+22	1,891621E+22	1,442546E+21	1,442767E+21	3,783356E+22	2,885313E+21	4,071887E+22
2775	1,891594E+22	1,891609E+22	1,442920E+21	1,442618E+21	3,783203E+22	2,885538E+21	4,071757E+22
2776	1,891533E+22	1,891608E+22	1,442764E+21	1,442971E+21	3,783141E+22	2,885736E+21	4,071715E+22
2777	1,891574E+22	1,891474E+22	1,442805E+21	1,442839E+21	3,783049E+22	2,885644E+21	4,071613E+22
2778	1,891435E+22	1,891525E+22	1,443057E+21	1,442788E+21	3,782960E+22	2,885845E+21	4,071544E+22
2779	1,891502E+22	1,891496E+22	1,442763E+21	1,443033E+21	3,782998E+22	2,885796E+21	4,071577E+22
2780	1,891535E+22	1,891451E+22	1,442908E+21	1,442712E+21	3,782986E+22	2,885620E+21	4,071548E+22
2781	1,891456E+22	1,891577E+22	1,442920E+21	1,442821E+21	3,783033E+22	2,885741E+21	4,071607E+22
2782	1,891584E+22	1,891541E+22	1,442619E+21	1,442887E+21	3,783125E+22	2,885506E+21	4,071676E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2783	1,891575E+22	1,891581E+22	1,442852E+21	1,442573E+21	3,783157E+22	2,885425E+21	4,071699E+22
2784	1,891604E+22	1,891689E+22	1,442691E+21	1,442794E+21	3,783293E+22	2,885484E+21	4,071841E+22
2785	1,891749E+22	1,891639E+22	1,442539E+21	1,442634E+21	3,783388E+22	2,885174E+21	4,071906E+22
2786	1,891673E+22	1,891727E+22	1,442790E+21	1,442462E+21	3,783400E+22	2,885251E+21	4,071925E+22
2787	1,891719E+22	1,891760E+22	1,442527E+21	1,442767E+21	3,783478E+22	2,885294E+21	4,072008E+22
2788	1,891754E+22	1,891677E+22	1,442609E+21	1,442545E+21	3,783431E+22	2,885153E+21	4,071946E+22
2789	1,891630E+22	1,891737E+22	1,442797E+21	1,442638E+21	3,783367E+22	2,885435E+21	4,071910E+22
2790	1,891689E+22	1,891651E+22	1,442533E+21	1,442850E+21	3,783340E+22	2,885383E+21	4,071878E+22
2791	1,891633E+22	1,891564E+22	1,442839E+21	1,442617E+21	3,783197E+22	2,885455E+21	4,071743E+22
2792	1,891519E+22	1,891603E+22	1,442883E+21	1,442877E+21	3,783123E+22	2,885760E+21	4,071699E+22
2793	1,891554E+22	1,891469E+22	1,442744E+21	1,442958E+21	3,783022E+22	2,885702E+21	4,071592E+22
2794	1,891401E+22	1,891430E+22	1,443107E+21	1,442817E+21	3,782830E+22	2,885924E+21	4,071423E+22
2795	1,891362E+22	1,891425E+22	1,442954E+21	1,443166E+21	3,782787E+22	2,886120E+21	4,071399E+22
2796	1,891409E+22	1,891294E+22	1,442968E+21	1,443006E+21	3,782703E+22	2,885974E+21	4,071300E+22
2797	1,891292E+22	1,891357E+22	1,443191E+21	1,442931E+21	3,782649E+22	2,886122E+21	4,071261E+22
2798	1,891354E+22	1,891350E+22	1,442889E+21	1,443164E+21	3,782704E+22	2,886053E+21	4,071310E+22
2799	1,891366E+22	1,891312E+22	1,443041E+21	1,442865E+21	3,782677E+22	2,885906E+21	4,071268E+22
2800	1,891305E+22	1,891441E+22	1,443079E+21	1,442955E+21	3,782746E+22	2,886035E+21	4,071350E+22
2801	1,891449E+22	1,891408E+22	1,442773E+21	1,443030E+21	3,782856E+22	2,885803E+21	4,071437E+22
2802	1,891446E+22	1,891433E+22	1,442989E+21	1,442695E+21	3,782879E+22	2,885685E+21	4,071447E+22
2803	1,891482E+22	1,891548E+22	1,442845E+21	1,442921E+21	3,783030E+22	2,885766E+21	4,071607E+22
2804	1,891602E+22	1,891504E+22	1,442685E+21	1,442778E+21	3,783106E+22	2,885463E+21	4,071652E+22
2805	1,891525E+22	1,891584E+22	1,442923E+21	1,442634E+21	3,783109E+22	2,885557E+21	4,071665E+22
2806	1,891559E+22	1,891608E+22	1,442673E+21	1,442941E+21	3,783166E+22	2,885614E+21	4,071728E+22
2807	1,891586E+22	1,891508E+22	1,442770E+21	1,442728E+21	3,783094E+22	2,885498E+21	4,071644E+22
2808	1,891478E+22	1,891566E+22	1,442984E+21	1,442783E+21	3,783044E+22	2,885767E+21	4,071620E+22
2809	1,891526E+22	1,891487E+22	1,442725E+21	1,443013E+21	3,783013E+22	2,885737E+21	4,071587E+22
2810	1,891446E+22	1,891385E+22	1,443015E+21	1,442791E+21	3,782831E+22	2,885807E+21	4,071412E+22
2811	1,891329E+22	1,891422E+22	1,443074E+21	1,443080E+21	3,782752E+22	2,886154E+21	4,071367E+22
2812	1,891357E+22	1,891285E+22	1,442928E+21	1,443164E+21	3,782642E+22	2,886092E+21	4,071251E+22
2813	1,891240E+22	1,891243E+22	1,443260E+21	1,443006E+21	3,782483E+22	2,886266E+21	4,071109E+22
2814	1,891212E+22	1,891255E+22	1,443104E+21	1,443312E+21	3,782467E+22	2,886415E+21	4,071109E+22
2815	1,891250E+22	1,891137E+22	1,443122E+21	1,443149E+21	3,782387E+22	2,886272E+21	4,071014E+22
2816	1,891137E+22	1,891217E+22	1,443360E+21	1,443055E+21	3,782354E+22	2,886415E+21	4,070996E+22
2817	1,891190E+22	1,891221E+22	1,443053E+21	1,443323E+21	3,782411E+22	2,886376E+21	4,071048E+22
2818	1,891200E+22	1,891156E+22	1,443189E+21	1,443028E+21	3,782357E+22	2,886217E+21	4,070978E+22
2819	1,891173E+22	1,891282E+22	1,443235E+21	1,443112E+21	3,782455E+22	2,886347E+21	4,071090E+22
2820	1,891320E+22	1,891260E+22	1,442912E+21	1,443163E+21	3,782580E+22	2,886075E+21	4,071187E+22
2821	1,891333E+22	1,891292E+22	1,443103E+21	1,442827E+21	3,782625E+22	2,885930E+21	4,071218E+22
2822	1,891349E+22	1,891423E+22	1,442966E+21	1,443049E+21	3,782772E+22	2,886015E+21	4,071374E+22
2823	1,891436E+22	1,891371E+22	1,442826E+21	1,442939E+21	3,782807E+22	2,885765E+21	4,071384E+22
2824	1,891365E+22	1,891440E+22	1,443100E+21	1,442784E+21	3,782805E+22	2,885884E+21	4,071393E+22
2825	1,891400E+22	1,891456E+22	1,442849E+21	1,443101E+21	3,782856E+22	2,885950E+21	4,071451E+22
2826	1,891419E+22	1,891327E+22	1,442941E+21	1,442887E+21	3,782746E+22	2,885829E+21	4,071329E+22
2827	1,891321E+22	1,891384E+22	1,443172E+21	1,442954E+21	3,782705E+22	2,886125E+21	4,071317E+22
2828	1,891345E+22	1,891313E+22	1,442902E+21	1,443200E+21	3,782658E+22	2,886102E+21	4,071268E+22
2829	1,891276E+22	1,891206E+22	1,443166E+21	1,443005E+21	3,782481E+22	2,886171E+21	4,071099E+22
2830	1,891160E+22	1,891246E+22	1,443232E+21	1,443272E+21	3,782406E+22	2,886505E+21	4,071057E+22
2831	1,891186E+22	1,891108E+22	1,443097E+21	1,443345E+21	3,782294E+22	2,886442E+21	4,070938E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2832	1,891086E+22	1,891081E+22	1,443449E+21	1,443137E+21	3,782167E+22	2,886586E+21	4,070826E+22
2833	1,891047E+22	1,891110E+22	1,443291E+21	1,443446E+21	3,782157E+22	2,886737E+21	4,070830E+22
2834	1,891060E+22	1,890978E+22	1,443295E+21	1,443302E+21	3,782039E+22	2,886597E+21	4,070698E+22
2835	1,890961E+22	1,891053E+22	1,443534E+21	1,443231E+21	3,782014E+22	2,886765E+21	4,070691E+22
2836	1,891020E+22	1,891058E+22	1,443210E+21	1,443493E+21	3,782078E+22	2,886702E+21	4,070748E+22
2837	1,891076E+22	1,890994E+22	1,443299E+21	1,443188E+21	3,782071E+22	2,886487E+21	4,070719E+22
2838	1,891063E+22	1,891141E+22	1,443345E+21	1,443234E+21	3,782203E+22	2,886579E+21	4,070861E+22
2839	1,891194E+22	1,891135E+22	1,443038E+21	1,443289E+21	3,782329E+22	2,886326E+21	4,070962E+22
2840	1,891202E+22	1,891179E+22	1,443249E+21	1,442949E+21	3,782381E+22	2,886199E+21	4,071001E+22
2841	1,891193E+22	1,891305E+22	1,443127E+21	1,443200E+21	3,782498E+22	2,886327E+21	4,071131E+22
2842	1,891265E+22	1,891213E+22	1,442987E+21	1,443106E+21	3,782478E+22	2,886093E+21	4,071088E+22
2843	1,891217E+22	1,891260E+22	1,443273E+21	1,442954E+21	3,782477E+22	2,886227E+21	4,071100E+22
2844	1,891242E+22	1,891280E+22	1,443018E+21	1,443255E+21	3,782523E+22	2,886273E+21	4,071150E+22
2845	1,891272E+22	1,891152E+22	1,443079E+21	1,443062E+21	3,782423E+22	2,886141E+21	4,071037E+22
2846	1,891155E+22	1,891220E+22	1,443314E+21	1,443128E+21	3,782375E+22	2,886442E+21	4,071020E+22
2847	1,891159E+22	1,891147E+22	1,443069E+21	1,443398E+21	3,782306E+22	2,886467E+21	4,070952E+22
2848	1,891103E+22	1,891041E+22	1,443358E+21	1,443178E+21	3,782143E+22	2,886536E+21	4,070797E+22
2849	1,890991E+22	1,891086E+22	1,443428E+21	1,443428E+21	3,782077E+22	2,886856E+21	4,070762E+22
2850	1,891006E+22	1,890931E+22	1,443293E+21	1,443495E+21	3,781937E+22	2,886788E+21	4,070616E+22
2851	1,890916E+22	1,890906E+22	1,443648E+21	1,443299E+21	3,781822E+22	2,886947E+21	4,070517E+22
2852	1,890857E+22	1,890946E+22	1,443468E+21	1,443617E+21	3,781803E+22	2,887086E+21	4,070512E+22
2853	1,890894E+22	1,890806E+22	1,443428E+21	1,443506E+21	3,781700E+22	2,886934E+21	4,070393E+22
2854	1,890818E+22	1,890887E+22	1,443653E+21	1,443407E+21	3,781705E+22	2,887060E+21	4,070411E+22
2855	1,890892E+22	1,890901E+22	1,443335E+21	1,443646E+21	3,781793E+22	2,886981E+21	4,070491E+22
2856	1,890966E+22	1,890867E+22	1,443435E+21	1,443292E+21	3,781833E+22	2,886728E+21	4,070505E+22
2857	1,890938E+22	1,891033E+22	1,443486E+21	1,443334E+21	3,781971E+22	2,886820E+21	4,070653E+22
2858	1,891031E+22	1,891008E+22	1,443188E+21	1,443412E+21	3,782039E+22	2,886600E+21	4,070699E+22
2859	1,891042E+22	1,891035E+22	1,443419E+21	1,443106E+21	3,782077E+22	2,886525E+21	4,070729E+22
2860	1,891024E+22	1,891149E+22	1,443292E+21	1,443352E+21	3,782173E+22	2,886644E+21	4,070837E+22
2861	1,891126E+22	1,891041E+22	1,443116E+21	1,443276E+21	3,782167E+22	2,886393E+21	4,070806E+22
2862	1,891085E+22	1,891094E+22	1,443400E+21	1,443104E+21	3,782179E+22	2,886504E+21	4,070829E+22
2863	1,891090E+22	1,891121E+22	1,443166E+21	1,443421E+21	3,782211E+22	2,886587E+21	4,070870E+22
2864	1,891112E+22	1,891007E+22	1,443246E+21	1,443229E+21	3,782119E+22	2,886475E+21	4,070767E+22
2865	1,890980E+22	1,891071E+22	1,443494E+21	1,443311E+21	3,782051E+22	2,886805E+21	4,070732E+22
2866	1,890967E+22	1,890967E+22	1,443270E+21	1,443585E+21	3,781935E+22	2,886855E+21	4,070620E+22
2867	1,890935E+22	1,890850E+22	1,443568E+21	1,443361E+21	3,781785E+22	2,886930E+21	4,070478E+22
2868	1,890808E+22	1,890905E+22	1,443628E+21	1,443585E+21	3,781713E+22	2,887213E+21	4,070434E+22
2869	1,890833E+22	1,890749E+22	1,443449E+21	1,443683E+21	3,781582E+22	2,887132E+21	4,070296E+22
2870	1,890739E+22	1,890732E+22	1,443785E+21	1,443484E+21	3,781470E+22	2,887269E+21	4,070197E+22
2871	1,890678E+22	1,890775E+22	1,443614E+21	1,443808E+21	3,781453E+22	2,887422E+21	4,070196E+22
2872	1,890748E+22	1,890653E+22	1,443573E+21	1,443659E+21	3,781401E+22	2,887232E+21	4,070124E+22
2873	1,890691E+22	1,890750E+22	1,443793E+21	1,443528E+21	3,781440E+22	2,887320E+21	4,070172E+22
2874	1,890755E+22	1,890764E+22	1,443493E+21	1,443754E+21	3,781519E+22	2,887247E+21	4,070243E+22
2875	1,890835E+22	1,890737E+22	1,443598E+21	1,443413E+21	3,781572E+22	2,887011E+21	4,070273E+22
2876	1,890777E+22	1,890909E+22	1,443643E+21	1,443462E+21	3,781686E+22	2,887105E+21	4,070397E+22
2877	1,890880E+22	1,890861E+22	1,443313E+21	1,443585E+21	3,781741E+22	2,886898E+21	4,070431E+22
2878	1,890901E+22	1,890876E+22	1,443536E+21	1,443272E+21	3,781777E+22	2,886808E+21	4,070458E+22
2879	1,890887E+22	1,890987E+22	1,443425E+21	1,443508E+21	3,781874E+22	2,886933E+21	4,070567E+22
2880	1,890996E+22	1,890897E+22	1,443263E+21	1,443411E+21	3,781893E+22	2,886674E+21	4,070560E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2881	1,890938E+22	1,890959E+22	1,443551E+21	1,443245E+21	3,781897E+22	2,886796E+21	4,070577E+22
2882	1,890906E+22	1,890965E+22	1,443348E+21	1,443588E+21	3,781871E+22	2,886937E+21	4,070565E+22
2883	1,890933E+22	1,890837E+22	1,443446E+21	1,443421E+21	3,781769E+22	2,886867E+21	4,070456E+22
2884	1,890793E+22	1,890895E+22	1,443692E+21	1,443484E+21	3,781687E+22	2,887176E+21	4,070405E+22
2885	1,890803E+22	1,890776E+22	1,443440E+21	1,443774E+21	3,781579E+22	2,887213E+21	4,070300E+22
2886	1,890773E+22	1,890668E+22	1,443728E+21	1,443538E+21	3,781442E+22	2,887267E+21	4,070168E+22
2887	1,890632E+22	1,890729E+22	1,443792E+21	1,443767E+21	3,781361E+22	2,887558E+21	4,070117E+22
2888	1,890657E+22	1,890591E+22	1,443615E+21	1,443862E+21	3,781248E+22	2,887477E+21	4,069996E+22
2889	1,890570E+22	1,890576E+22	1,443937E+21	1,443654E+21	3,781146E+22	2,887591E+21	4,069905E+22
2890	1,890512E+22	1,890602E+22	1,443788E+21	1,443962E+21	3,781114E+22	2,887750E+21	4,069889E+22
2891	1,890614E+22	1,890495E+22	1,443747E+21	1,443792E+21	3,781108E+22	2,887539E+21	4,069862E+22
2892	1,890547E+22	1,890614E+22	1,443956E+21	1,443633E+21	3,781161E+22	2,887590E+21	4,069920E+22
2893	1,890613E+22	1,890626E+22	1,443626E+21	1,443894E+21	3,781239E+22	2,887521E+21	4,069991E+22
2894	1,890682E+22	1,890602E+22	1,443715E+21	1,443568E+21	3,781285E+22	2,887282E+21	4,070013E+22
2895	1,890618E+22	1,890761E+22	1,443771E+21	1,443625E+21	3,781378E+22	2,887397E+21	4,070118E+22
2896	1,890740E+22	1,890721E+22	1,443447E+21	1,443728E+21	3,781461E+22	2,887175E+21	4,070178E+22
2897	1,890775E+22	1,890737E+22	1,443665E+21	1,443399E+21	3,781511E+22	2,887064E+21	4,070218E+22
2898	1,890743E+22	1,890834E+22	1,443591E+21	1,443641E+21	3,781577E+22	2,887232E+21	4,070300E+22
2899	1,890851E+22	1,890750E+22	1,443440E+21	1,443570E+21	3,781600E+22	2,887010E+21	4,070301E+22
2900	1,890763E+22	1,890811E+22	1,443726E+21	1,443417E+21	3,781574E+22	2,887143E+21	4,070288E+22
2901	1,890739E+22	1,890788E+22	1,443508E+21	1,443798E+21	3,781528E+22	2,887306E+21	4,070258E+22
2902	1,890774E+22	1,890652E+22	1,443600E+21	1,443619E+21	3,781426E+22	2,887219E+21	4,070148E+22
2903	1,890631E+22	1,890709E+22	1,443861E+21	1,443660E+21	3,781340E+22	2,887521E+21	4,070092E+22
2904	1,890639E+22	1,890614E+22	1,443617E+21	1,443926E+21	3,781253E+22	2,887543E+21	4,070007E+22
2905	1,890592E+22	1,890511E+22	1,443898E+21	1,443695E+21	3,781103E+22	2,887593E+21	4,069862E+22
2906	1,890427E+22	1,890553E+22	1,443988E+21	1,443939E+21	3,780980E+22	2,887927E+21	4,069772E+22
2907	1,890474E+22	1,890413E+22	1,443814E+21	1,444042E+21	3,780887E+22	2,887855E+21	4,069673E+22
2908	1,890399E+22	1,890407E+22	1,444112E+21	1,443805E+21	3,780807E+22	2,887918E+21	4,069598E+22
2909	1,890375E+22	1,890433E+22	1,443936E+21	1,444118E+21	3,780808E+22	2,888054E+21	4,069613E+22
2910	1,890482E+22	1,890349E+22	1,443876E+21	1,443936E+21	3,780830E+22	2,887812E+21	4,069612E+22
2911	1,890401E+22	1,890480E+22	1,444085E+21	1,443780E+21	3,780881E+22	2,887865E+21	4,069667E+22
2912	1,890463E+22	1,890506E+22	1,443760E+21	1,444040E+21	3,780969E+22	2,887800E+21	4,069749E+22
2913	1,890537E+22	1,890472E+22	1,443841E+21	1,443713E+21	3,781009E+22	2,887554E+21	4,069764E+22
2914	1,890472E+22	1,890603E+22	1,443927E+21	1,443765E+21	3,781075E+22	2,887692E+21	4,069844E+22
2915	1,890615E+22	1,890570E+22	1,443611E+21	1,443860E+21	3,781185E+22	2,887471E+21	4,069932E+22
2916	1,890634E+22	1,890598E+22	1,443819E+21	1,443525E+21	3,781232E+22	2,887343E+21	4,069967E+22
2917	1,890598E+22	1,890680E+22	1,443734E+21	1,443809E+21	3,781277E+22	2,887542E+21	4,070032E+22
2918	1,890691E+22	1,890597E+22	1,443578E+21	1,443756E+21	3,781288E+22	2,887335E+21	4,070022E+22
2919	1,890596E+22	1,890642E+22	1,443880E+21	1,443604E+21	3,781239E+22	2,887484E+21	4,069987E+22
2920	1,890580E+22	1,890627E+22	1,443680E+21	1,443956E+21	3,781207E+22	2,887636E+21	4,069971E+22
2921	1,890617E+22	1,890492E+22	1,443770E+21	1,443765E+21	3,781109E+22	2,887535E+21	4,069863E+22
2922	1,890448E+22	1,890531E+22	1,444067E+21	1,443812E+21	3,780980E+22	2,887880E+21	4,069768E+22
2923	1,890451E+22	1,890444E+22	1,443829E+21	1,444101E+21	3,780895E+22	2,887930E+21	4,069688E+22
2924	1,890389E+22	1,890340E+22	1,444090E+21	1,443883E+21	3,780728E+22	2,887973E+21	4,069525E+22
2925	1,890248E+22	1,890354E+22	1,444156E+21	1,444152E+21	3,780602E+22	2,888308E+21	4,069433E+22
2926	1,890322E+22	1,890228E+22	1,443958E+21	1,444233E+21	3,780549E+22	2,888191E+21	4,069369E+22
2927	1,890258E+22	1,890238E+22	1,444250E+21	1,443966E+21	3,780496E+22	2,888216E+21	4,069318E+22
2928	1,890238E+22	1,890299E+22	1,444082E+21	1,444249E+21	3,780537E+22	2,888331E+21	4,069370E+22
2929	1,890332E+22	1,890228E+22	1,444007E+21	1,444062E+21	3,780560E+22	2,888069E+21	4,069367E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2930	1,890230E+22	1,890337E+22	1,444246E+21	1,443921E+21	3,780567E+22	2,888167E+21	4,069384E+22
2931	1,890309E+22	1,890362E+22	1,443927E+21	1,444179E+21	3,780670E+22	2,888106E+21	4,069481E+22
2932	1,890391E+22	1,890327E+22	1,443991E+21	1,443841E+21	3,780718E+22	2,887832E+21	4,069501E+22
2933	1,890352E+22	1,890443E+22	1,444062E+21	1,443913E+21	3,780795E+22	2,887974E+21	4,069592E+22
2934	1,890494E+22	1,890426E+22	1,443737E+21	1,444013E+21	3,780919E+22	2,887750E+21	4,069694E+22
2935	1,890493E+22	1,890457E+22	1,443945E+21	1,443692E+21	3,780950E+22	2,887637E+21	4,069713E+22
2936	1,890448E+22	1,890547E+22	1,443877E+21	1,443974E+21	3,780995E+22	2,887851E+21	4,069780E+22
2937	1,890536E+22	1,890449E+22	1,443728E+21	1,443914E+21	3,780985E+22	2,887641E+21	4,069749E+22
2938	1,890429E+22	1,890468E+22	1,444074E+21	1,443758E+21	3,780897E+22	2,887832E+21	4,069681E+22
2939	1,890415E+22	1,890460E+22	1,443893E+21	1,444098E+21	3,780875E+22	2,887991E+21	4,069675E+22
2940	1,890428E+22	1,890328E+22	1,443973E+21	1,443925E+21	3,780756E+22	2,887898E+21	4,069546E+22
2941	1,890257E+22	1,890340E+22	1,444246E+21	1,444019E+21	3,780597E+22	2,888266E+21	4,069424E+22
2942	1,890259E+22	1,890252E+22	1,443990E+21	1,444322E+21	3,780511E+22	2,888313E+21	4,069342E+22
2943	1,890210E+22	1,890145E+22	1,444238E+21	1,444091E+21	3,780355E+22	2,888329E+21	4,069188E+22
2944	1,890100E+22	1,890185E+22	1,444306E+21	1,444317E+21	3,780284E+22	2,888623E+21	4,069147E+22
2945	1,890185E+22	1,890081E+22	1,444107E+21	1,444364E+21	3,780265E+22	2,888471E+21	4,069112E+22
2946	1,890105E+22	1,890092E+22	1,444428E+21	1,444097E+21	3,780196E+22	2,888525E+21	4,069049E+22
2947	1,890078E+22	1,890169E+22	1,444267E+21	1,444381E+21	3,780247E+22	2,888647E+21	4,069112E+22
2948	1,890159E+22	1,890096E+22	1,444172E+21	1,444211E+21	3,780255E+22	2,888383E+21	4,069093E+22
2949	1,890082E+22	1,890166E+22	1,444387E+21	1,444092E+21	3,780248E+22	2,888479E+21	4,069096E+22
2950	1,890181E+22	1,890201E+22	1,444050E+21	1,444333E+21	3,780382E+22	2,888384E+21	4,069220E+22
2951	1,890269E+22	1,890178E+22	1,444103E+21	1,443983E+21	3,780447E+22	2,888086E+21	4,069255E+22
2952	1,890228E+22	1,890316E+22	1,444187E+21	1,444044E+21	3,780544E+22	2,888231E+21	4,069367E+22
2953	1,890352E+22	1,890306E+22	1,443865E+21	1,444144E+21	3,780658E+22	2,888009E+21	4,069459E+22
2954	1,890326E+22	1,890310E+22	1,444113E+21	1,443846E+21	3,780636E+22	2,887959E+21	4,069432E+22
2955	1,890285E+22	1,890396E+22	1,444069E+21	1,444115E+21	3,780681E+22	2,888184E+21	4,069499E+22
2956	1,890368E+22	1,890293E+22	1,443914E+21	1,444063E+21	3,780661E+22	2,887977E+21	4,069459E+22
2957	1,890269E+22	1,890280E+22	1,444252E+21	1,443939E+21	3,780550E+22	2,888192E+21	4,069369E+22
2958	1,890245E+22	1,890282E+22	1,444059E+21	1,444293E+21	3,780527E+22	2,888352E+21	4,069362E+22
2959	1,890242E+22	1,890146E+22	1,444128E+21	1,444142E+21	3,780389E+22	2,888270E+21	4,069216E+22
2960	1,890081E+22	1,890161E+22	1,444402E+21	1,444230E+21	3,780242E+22	2,888631E+21	4,069105E+22
2961	1,890098E+22	1,890074E+22	1,444145E+21	1,444500E+21	3,780172E+22	2,888645E+21	4,069036E+22
2962	1,890053E+22	1,889965E+22	1,444419E+21	1,444248E+21	3,780018E+22	2,888667E+21	4,068884E+22
2963	1,889950E+22	1,890034E+22	1,444504E+21	1,444439E+21	3,779984E+22	2,888943E+21	4,068878E+22
2964	1,890013E+22	1,889947E+22	1,444297E+21	1,444496E+21	3,779960E+22	2,888793E+21	4,068839E+22
2965	1,889930E+22	1,889933E+22	1,444594E+21	1,444268E+21	3,779864E+22	2,888862E+21	4,068750E+22
2966	1,889908E+22	1,890010E+22	1,444413E+21	1,444553E+21	3,779918E+22	2,888966E+21	4,068814E+22
2967	1,890001E+22	1,889931E+22	1,444297E+21	1,444377E+21	3,779932E+22	2,888674E+21	4,068800E+22
2968	1,889959E+22	1,890018E+22	1,444501E+21	1,444229E+21	3,779977E+22	2,888730E+21	4,068850E+22
2969	1,890067E+22	1,890069E+22	1,444167E+21	1,444443E+21	3,780136E+22	2,888610E+21	4,068997E+22
2970	1,890136E+22	1,890049E+22	1,444248E+21	1,444108E+21	3,780185E+22	2,888357E+21	4,069020E+22
2971	1,890085E+22	1,890199E+22	1,444350E+21	1,444173E+21	3,780284E+22	2,888523E+21	4,069136E+22
2972	1,890188E+22	1,890178E+22	1,444034E+21	1,444297E+21	3,780366E+22	2,888332E+21	4,069200E+22
2973	1,890176E+22	1,890135E+22	1,444272E+21	1,444029E+21	3,780311E+22	2,888301E+21	4,069141E+22
2974	1,890139E+22	1,890222E+22	1,444223E+21	1,444282E+21	3,780361E+22	2,888505E+21	4,069211E+22
2975	1,890210E+22	1,890121E+22	1,444064E+21	1,444237E+21	3,780331E+22	2,888301E+21	4,069161E+22
2976	1,890107E+22	1,890116E+22	1,444403E+21	1,444119E+21	3,780223E+22	2,888523E+21	4,069076E+22
2977	1,890068E+22	1,890118E+22	1,444214E+21	1,444467E+21	3,780185E+22	2,888681E+21	4,069054E+22
2978	1,890053E+22	1,889964E+22	1,444314E+21	1,444331E+21	3,780016E+22	2,888645E+21	4,068881E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude ☉	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2979	1,889909E+22	1,889988E+22	1,444600E+21	1,444385E+21	3,779897E+22	2,888985E+21	4,068795E+22
2980	1,889930E+22	1,889913E+22	1,444347E+21	1,444651E+21	3,779843E+22	2,888998E+21	4,068743E+22
2981	1,889894E+22	1,889786E+22	1,444607E+21	1,444419E+21	3,779680E+22	2,889027E+21	4,068583E+22
2982	1,889783E+22	1,889876E+22	1,444675E+21	1,444606E+21	3,779658E+22	2,889282E+21	4,068586E+22
2983	1,889832E+22	1,889790E+22	1,444445E+21	1,444682E+21	3,779622E+22	2,889127E+21	4,068535E+22
2984	1,889766E+22	1,889772E+22	1,444726E+21	1,444450E+21	3,779538E+22	2,889175E+21	4,068456E+22
2985	1,889765E+22	1,889851E+22	1,444536E+21	1,444691E+21	3,779616E+22	2,889227E+21	4,068538E+22
2986	1,889868E+22	1,889775E+22	1,444438E+21	1,444506E+21	3,779643E+22	2,888943E+21	4,068537E+22
2987	1,889836E+22	1,889890E+22	1,444652E+21	1,444331E+21	3,779726E+22	2,888983E+21	4,068625E+22
2988	1,889925E+22	1,889956E+22	1,444324E+21	1,444568E+21	3,779881E+22	2,888892E+21	4,068770E+22
2989	1,889986E+22	1,889905E+22	1,444390E+21	1,444275E+21	3,779890E+22	2,888665E+21	4,068757E+22
2990	1,889935E+22	1,890050E+22	1,444488E+21	1,444335E+21	3,779985E+22	2,888823E+21	4,068867E+22
2991	1,890037E+22	1,890019E+22	1,444168E+21	1,444457E+21	3,780056E+22	2,888625E+21	4,068919E+22
2992	1,890042E+22	1,889978E+22	1,444409E+21	1,444187E+21	3,780020E+22	2,888595E+21	4,068880E+22
2993	1,889998E+22	1,890069E+22	1,444371E+21	1,444416E+21	3,780067E+22	2,888787E+21	4,068946E+22
2994	1,890040E+22	1,889963E+22	1,444244E+21	1,444405E+21	3,780003E+22	2,888649E+21	4,068868E+22
2995	1,889929E+22	1,889962E+22	1,444593E+21	1,444288E+21	3,779891E+22	2,888881E+21	4,068779E+22
2996	1,889881E+22	1,889949E+22	1,444416E+21	1,444653E+21	3,779830E+22	2,889070E+21	4,068737E+22
2997	1,889882E+22	1,889764E+22	1,444500E+21	1,444531E+21	3,779646E+22	2,889031E+21	4,068549E+22
2998	1,889751E+22	1,889803E+22	1,444773E+21	1,444558E+21	3,779555E+22	2,889331E+21	4,068488E+22
2999	1,889758E+22	1,889742E+22	1,444521E+21	1,444822E+21	3,779500E+22	2,889343E+21	4,068434E+22