

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-3000	7,546583E+22	7,546415E+22	5,769865E+22	5,769916E+22	1,509300E+23	1,153978E+23	2,663278E+23
-2999	7,546149E+22	7,546467E+22	5,770058E+22	5,769951E+22	1,509262E+23	1,154001E+23	2,663262E+23
-2998	7,546436E+22	7,546483E+22	5,770056E+22	5,770194E+22	1,509292E+23	1,154025E+23	2,663317E+23
-2997	7,546428E+22	7,546376E+22	5,770126E+22	5,769984E+22	1,509280E+23	1,154011E+23	2,663291E+23
-2996	7,546199E+22	7,546325E+22	5,770299E+22	5,770201E+22	1,509252E+23	1,154050E+23	2,663302E+23
-2995	7,546560E+22	7,546357E+22	5,770206E+22	5,770333E+22	1,509292E+23	1,154054E+23	2,663346E+23
-2994	7,546283E+22	7,546374E+22	5,770261E+22	5,770165E+22	1,509266E+23	1,154043E+23	2,663308E+23
-2993	7,546297E+22	7,546383E+22	5,770282E+22	5,770416E+22	1,509268E+23	1,154070E+23	2,663338E+23
-2992	7,546588E+22	7,546395E+22	5,770174E+22	5,770276E+22	1,509298E+23	1,154045E+23	2,663343E+23
-2991	7,546210E+22	7,546392E+22	5,770316E+22	5,770118E+22	1,509260E+23	1,154043E+23	2,663304E+23
-2990	7,546451E+22	7,546437E+22	5,770250E+22	5,770296E+22	1,509289E+23	1,154055E+23	2,663343E+23
-2989	7,546504E+22	7,546412E+22	5,770158E+22	5,770052E+22	1,509292E+23	1,154021E+23	2,663313E+23
-2988	7,546129E+22	7,546392E+22	5,770215E+22	5,770134E+22	1,509252E+23	1,154035E+23	2,663287E+23
-2987	7,546461E+22	7,546418E+22	5,770067E+22	5,770226E+22	1,509288E+23	1,154029E+23	2,663317E+23
-2986	7,546297E+22	7,546369E+22	5,770055E+22	5,769922E+22	1,509267E+23	1,153998E+23	2,663264E+23
-2985	7,546260E+22	7,546317E+22	5,770060E+22	5,770069E+22	1,509258E+23	1,154013E+23	2,663271E+23
-2984	7,546638E+22	7,546342E+22	5,769921E+22	5,770021E+22	1,509298E+23	1,153994E+23	2,663292E+23
-2983	7,546253E+22	7,546359E+22	5,770027E+22	5,769881E+22	1,509261E+23	1,153991E+23	2,663252E+23
-2982	7,546347E+22	7,546447E+22	5,770019E+22	5,770139E+22	1,509279E+23	1,154016E+23	2,663295E+23
-2981	7,546511E+22	7,546446E+22	5,769998E+22	5,770014E+22	1,509296E+23	1,154001E+23	2,663297E+23
-2980	7,546123E+22	7,546364E+22	5,770191E+22	5,770068E+22	1,509249E+23	1,154026E+23	2,663275E+23
-2979	7,546451E+22	7,546376E+22	5,770216E+22	5,770280E+22	1,509283E+23	1,154050E+23	2,663332E+23
-2978	7,546404E+22	7,546342E+22	5,770268E+22	5,770118E+22	1,509275E+23	1,154039E+23	2,663313E+23
-2977	7,546196E+22	7,546309E+22	5,770347E+22	5,770345E+22	1,509251E+23	1,154069E+23	2,663320E+23
-2976	7,546555E+22	7,546389E+22	5,770250E+22	5,770466E+22	1,509294E+23	1,154072E+23	2,663366E+23
-2975	7,546237E+22	7,546360E+22	5,770365E+22	5,770283E+22	1,509260E+23	1,154065E+23	2,663325E+23
-2974	7,546265E+22	7,546409E+22	5,770386E+22	5,770448E+22	1,509267E+23	1,154083E+23	2,663351E+23
-2973	7,546595E+22	7,546402E+22	5,770323E+22	5,770317E+22	1,509300E+23	1,154064E+23	2,663364E+23
-2972	7,546196E+22	7,546310E+22	5,770422E+22	5,770226E+22	1,509251E+23	1,154065E+23	2,663315E+23
-2971	7,546388E+22	7,546394E+22	5,770346E+22	5,770403E+22	1,509278E+23	1,154075E+23	2,663353E+23
-2970	7,546408E+22	7,546409E+22	5,770239E+22	5,770187E+22	1,509282E+23	1,154043E+23	2,663324E+23
-2969	7,546109E+22	7,546321E+22	5,770232E+22	5,770216E+22	1,509243E+23	1,154045E+23	2,663288E+23
-2968	7,546507E+22	7,546364E+22	5,770107E+22	5,770268E+22	1,509287E+23	1,154037E+23	2,663325E+23
-2967	7,546330E+22	7,546288E+22	5,770144E+22	5,769980E+22	1,509262E+23	1,154012E+23	2,663274E+23
-2966	7,546250E+22	7,546351E+22	5,770124E+22	5,770110E+22	1,509260E+23	1,154023E+23	2,663284E+23
-2965	7,546606E+22	7,546424E+22	5,770019E+22	5,770111E+22	1,509303E+23	1,154013E+23	2,663316E+23
-2964	7,546192E+22	7,546342E+22	5,770123E+22	5,770024E+22	1,509253E+23	1,154015E+23	2,663268E+23
-2963	7,546283E+22	7,546417E+22	5,770170E+22	5,770235E+22	1,509270E+23	1,154040E+23	2,663310E+23
-2962	7,546456E+22	7,546412E+22	5,770171E+22	5,770124E+22	1,509287E+23	1,154029E+23	2,663316E+23
-2961	7,546146E+22	7,546266E+22	5,770301E+22	5,770182E+22	1,509241E+23	1,154048E+23	2,663289E+23
-2960	7,546474E+22	7,546333E+22	5,770301E+22	5,770417E+22	1,509281E+23	1,154072E+23	2,663352E+23
-2959	7,546348E+22	7,546303E+22	5,770358E+22	5,770299E+22	1,509265E+23	1,154066E+23	2,663331E+23
-2958	7,546133E+22	7,546356E+22	5,770402E+22	5,770459E+22	1,509249E+23	1,154086E+23	2,663335E+23
-2957	7,546542E+22	7,546420E+22	5,770359E+22	5,770539E+22	1,509296E+23	1,154090E+23	2,663386E+23
-2956	7,546253E+22	7,546286E+22	5,770481E+22	5,770356E+22	1,509254E+23	1,154084E+23	2,663338E+23
-2955	7,546288E+22	7,546356E+22	5,770534E+22	5,770481E+22	1,509264E+23	1,154101E+23	2,663366E+23
-2954	7,546546E+22	7,546408E+22	5,770452E+22	5,770405E+22	1,509295E+23	1,154086E+23	2,663381E+23
-2953	7,546159E+22	7,546291E+22	5,770468E+22	5,770345E+22	1,509245E+23	1,154081E+23	2,663326E+23
-2952	7,546348E+22	7,546382E+22	5,770384E+22	5,770508E+22	1,509273E+23	1,154089E+23	2,663362E+23

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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	7,546341E+22	7,546343E+22	5,770322E+22	5,770293E+22	1,509268E+23	1,154061E+23	2,663330E+23
-2950	7,546097E+22	7,546305E+22	5,770294E+22	5,770246E+22	1,509240E+23	1,154054E+23	2,663294E+23
-2949	7,546548E+22	7,546344E+22	5,770203E+22	5,770310E+22	1,509289E+23	1,154051E+23	2,663341E+23
-2948	7,546335E+22	7,546231E+22	5,770212E+22	5,770089E+22	1,509257E+23	1,154030E+23	2,663287E+23
-2947	7,546204E+22	7,546352E+22	5,770212E+22	5,770201E+22	1,509256E+23	1,154041E+23	2,663297E+23
-2946	7,546511E+22	7,546459E+22	5,770132E+22	5,770228E+22	1,509297E+23	1,154036E+23	2,663333E+23
-2945	7,546167E+22	7,546293E+22	5,770209E+22	5,770126E+22	1,509246E+23	1,154034E+23	2,663279E+23
-2944	7,546294E+22	7,546357E+22	5,770284E+22	5,770317E+22	1,509265E+23	1,154060E+23	2,663325E+23
-2943	7,546440E+22	7,546327E+22	5,770317E+22	5,770258E+22	1,509277E+23	1,154058E+23	2,663334E+23
-2942	7,546117E+22	7,546276E+22	5,770386E+22	5,770293E+22	1,509239E+23	1,154068E+23	2,663307E+23
-2941	7,546459E+22	7,546371E+22	5,770400E+22	5,770558E+22	1,509283E+23	1,154096E+23	2,663379E+23
-2940	7,546324E+22	7,546269E+22	5,770448E+22	5,770452E+22	1,509259E+23	1,154090E+23	2,663349E+23
-2939	7,546115E+22	7,546333E+22	5,770541E+22	5,770522E+22	1,509245E+23	1,154106E+23	2,663351E+23
-2938	7,546530E+22	7,546415E+22	5,770528E+22	5,770601E+22	1,509295E+23	1,154113E+23	2,663407E+23
-2937	7,546283E+22	7,546215E+22	5,770585E+22	5,770428E+22	1,509250E+23	1,154101E+23	2,663351E+23
-2936	7,546263E+22	7,546336E+22	5,770613E+22	5,770581E+22	1,509260E+23	1,154119E+23	2,663379E+23
-2935	7,546442E+22	7,546378E+22	5,770529E+22	5,770564E+22	1,509282E+23	1,154109E+23	2,663391E+23
-2934	7,546062E+22	7,546296E+22	5,770500E+22	5,770437E+22	1,509236E+23	1,154094E+23	2,663330E+23
-2933	7,546337E+22	7,546359E+22	5,770458E+22	5,770573E+22	1,509270E+23	1,154103E+23	2,663373E+23
-2932	7,546372E+22	7,546233E+22	5,770392E+22	5,770358E+22	1,509260E+23	1,154075E+23	2,663335E+23
-2931	7,546138E+22	7,546258E+22	5,770385E+22	5,770268E+22	1,509240E+23	1,154065E+23	2,663305E+23
-2930	7,546528E+22	7,546387E+22	5,770296E+22	5,770382E+22	1,509291E+23	1,154068E+23	2,663359E+23
-2929	7,546316E+22	7,546249E+22	5,770257E+22	5,770194E+22	1,509256E+23	1,154045E+23	2,663302E+23
-2928	7,546159E+22	7,546377E+22	5,770296E+22	5,770295E+22	1,509254E+23	1,154059E+23	2,663313E+23
-2927	7,546426E+22	7,546419E+22	5,770280E+22	5,770346E+22	1,509285E+23	1,154063E+23	2,663347E+23
-2926	7,546131E+22	7,546263E+22	5,770340E+22	5,770202E+22	1,509239E+23	1,154054E+23	2,663294E+23
-2925	7,546311E+22	7,546307E+22	5,770430E+22	5,770430E+22	1,509262E+23	1,154086E+23	2,663348E+23
-2924	7,546418E+22	7,546241E+22	5,770415E+22	5,770439E+22	1,509266E+23	1,154085E+23	2,663351E+23
-2923	7,546087E+22	7,546258E+22	5,770476E+22	5,770429E+22	1,509234E+23	1,154090E+23	2,663325E+23
-2922	7,546408E+22	7,546386E+22	5,770504E+22	5,770673E+22	1,509279E+23	1,154118E+23	2,663397E+23
-2921	7,546349E+22	7,546226E+22	5,770529E+22	5,770530E+22	1,509258E+23	1,154106E+23	2,663363E+23
-2920	7,546157E+22	7,546299E+22	5,770656E+22	5,770561E+22	1,509246E+23	1,154122E+23	2,663367E+23
-2919	7,546487E+22	7,546376E+22	5,770674E+22	5,770700E+22	1,509286E+23	1,154137E+23	2,663424E+23
-2918	7,546208E+22	7,546257E+22	5,770670E+22	5,770527E+22	1,509247E+23	1,154120E+23	2,663366E+23
-2917	7,546196E+22	7,546359E+22	5,770701E+22	5,770712E+22	1,509256E+23	1,154141E+23	2,663397E+23
-2916	7,546369E+22	7,546310E+22	5,770597E+22	5,770709E+22	1,509268E+23	1,154131E+23	2,663398E+23
-2915	7,546050E+22	7,546232E+22	5,770589E+22	5,770486E+22	1,509228E+23	1,154108E+23	2,663336E+23
-2914	7,546356E+22	7,546316E+22	5,770563E+22	5,770613E+22	1,509267E+23	1,154118E+23	2,663385E+23
-2913	7,546436E+22	7,546171E+22	5,770440E+22	5,770417E+22	1,509261E+23	1,154086E+23	2,663346E+23
-2912	7,546142E+22	7,546271E+22	5,770435E+22	5,770336E+22	1,509241E+23	1,154077E+23	2,663318E+23
-2911	7,546429E+22	7,546407E+22	5,770383E+22	5,770506E+22	1,509284E+23	1,154089E+23	2,663373E+23
-2910	7,546225E+22	7,546286E+22	5,770333E+22	5,770269E+22	1,509251E+23	1,154060E+23	2,663311E+23
-2909	7,546135E+22	7,546355E+22	5,770432E+22	5,770377E+22	1,509249E+23	1,154081E+23	2,663330E+23
-2908	7,546419E+22	7,546302E+22	5,770413E+22	5,770464E+22	1,509272E+23	1,154088E+23	2,663360E+23
-2907	7,546135E+22	7,546192E+22	5,770469E+22	5,770294E+22	1,509233E+23	1,154076E+23	2,663309E+23
-2906	7,546288E+22	7,546313E+22	5,770542E+22	5,770569E+22	1,509260E+23	1,154111E+23	2,663371E+23
-2905	7,546419E+22	7,546218E+22	5,770464E+22	5,770585E+22	1,509264E+23	1,154105E+23	2,663369E+23
-2904	7,546075E+22	7,546269E+22	5,770561E+22	5,770524E+22	1,509234E+23	1,154109E+23	2,663343E+23
-2903	7,546362E+22	7,546375E+22	5,770651E+22	5,770772E+22	1,509274E+23	1,154142E+23	2,663416E+23

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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 [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2902	7,546327E+22	7,546231E+22	5,770661E+22	5,770583E+22	1,509256E+23	1,154124E+23	2,663380E+23
-2901	7,546149E+22	7,546293E+22	5,770804E+22	5,770667E+22	1,509244E+23	1,154147E+23	2,663391E+23
-2900	7,546403E+22	7,546315E+22	5,770773E+22	5,770869E+22	1,509272E+23	1,154164E+23	2,663436E+23
-2899	7,546127E+22	7,546224E+22	5,770753E+22	5,770652E+22	1,509235E+23	1,154140E+23	2,663376E+23
-2898	7,546141E+22	7,546329E+22	5,770787E+22	5,770811E+22	1,509247E+23	1,154160E+23	2,663407E+23
-2897	7,546411E+22	7,546216E+22	5,770639E+22	5,770770E+22	1,509263E+23	1,154141E+23	2,663404E+23
-2896	7,546127E+22	7,546183E+22	5,770649E+22	5,770501E+22	1,509231E+23	1,154115E+23	2,663346E+23
-2895	7,546352E+22	7,546308E+22	5,770648E+22	5,770677E+22	1,509266E+23	1,154132E+23	2,663398E+23
-2894	7,546391E+22	7,546252E+22	5,770492E+22	5,770475E+22	1,509264E+23	1,154097E+23	2,663361E+23
-2893	7,546095E+22	7,546333E+22	5,770530E+22	5,770435E+22	1,509243E+23	1,154097E+23	2,663339E+23
-2892	7,546328E+22	7,546368E+22	5,770499E+22	5,770630E+22	1,509270E+23	1,154113E+23	2,663383E+23
-2891	7,546187E+22	7,546230E+22	5,770481E+22	5,770344E+22	1,509242E+23	1,154083E+23	2,663324E+23
-2890	7,546123E+22	7,546277E+22	5,770582E+22	5,770468E+22	1,509240E+23	1,154105E+23	2,663345E+23
-2889	7,546443E+22	7,546202E+22	5,770486E+22	5,770601E+22	1,509264E+23	1,154109E+23	2,663373E+23
-2888	7,546138E+22	7,546167E+22	5,770518E+22	5,770426E+22	1,509231E+23	1,154094E+23	2,663325E+23
-2887	7,546212E+22	7,546313E+22	5,770616E+22	5,770725E+22	1,509253E+23	1,154134E+23	2,663387E+23
-2886	7,546373E+22	7,546259E+22	5,770541E+22	5,770664E+22	1,509263E+23	1,154120E+23	2,663384E+23
-2885	7,546095E+22	7,546269E+22	5,770704E+22	5,770592E+22	1,509236E+23	1,154130E+23	2,663366E+23
-2884	7,546340E+22	7,546306E+22	5,770807E+22	5,770870E+22	1,509265E+23	1,154168E+23	2,663432E+23
-2883	7,546301E+22	7,546209E+22	5,770808E+22	5,770675E+22	1,509251E+23	1,154148E+23	2,663399E+23
-2882	7,546081E+22	7,546300E+22	5,770931E+22	5,770805E+22	1,509238E+23	1,154174E+23	2,663412E+23
-2881	7,546364E+22	7,546267E+22	5,770830E+22	5,771019E+22	1,509263E+23	1,154185E+23	2,663448E+23
-2880	7,546118E+22	7,546182E+22	5,770822E+22	5,770736E+22	1,509230E+23	1,154156E+23	2,663386E+23
-2879	7,546127E+22	7,546277E+22	5,770887E+22	5,770888E+22	1,509240E+23	1,154178E+23	2,663418E+23
-2878	7,546437E+22	7,546204E+22	5,770711E+22	5,770791E+22	1,509264E+23	1,154150E+23	2,663414E+23
-2877	7,546157E+22	7,546202E+22	5,770735E+22	5,770571E+22	1,509236E+23	1,154131E+23	2,663367E+23
-2876	7,546276E+22	7,546305E+22	5,770716E+22	5,770799E+22	1,509258E+23	1,154152E+23	2,663410E+23
-2875	7,546303E+22	7,546265E+22	5,770571E+22	5,770559E+22	1,509257E+23	1,154113E+23	2,663370E+23
-2874	7,546027E+22	7,546315E+22	5,770650E+22	5,770522E+22	1,509234E+23	1,154117E+23	2,663351E+23
-2873	7,546331E+22	7,546257E+22	5,770581E+22	5,770711E+22	1,509259E+23	1,154129E+23	2,663388E+23
-2872	7,546218E+22	7,546143E+22	5,770574E+22	5,770414E+22	1,509236E+23	1,154099E+23	2,663335E+23
-2871	7,546099E+22	7,546242E+22	5,770674E+22	5,770603E+22	1,509234E+23	1,154128E+23	2,663362E+23
-2870	7,546406E+22	7,546239E+22	5,770534E+22	5,770713E+22	1,509265E+23	1,154125E+23	2,663389E+23
-2869	7,546130E+22	7,546216E+22	5,770604E+22	5,770552E+22	1,509235E+23	1,154116E+23	2,663350E+23
-2868	7,546155E+22	7,546291E+22	5,770737E+22	5,770839E+22	1,509245E+23	1,154158E+23	2,663402E+23
-2867	7,546361E+22	7,546239E+22	5,770705E+22	5,770721E+22	1,509260E+23	1,154143E+23	2,663403E+23
-2866	7,546092E+22	7,546234E+22	5,770896E+22	5,770684E+22	1,509233E+23	1,154158E+23	2,663391E+23
-2865	7,546317E+22	7,546236E+22	5,770919E+22	5,771014E+22	1,509255E+23	1,154193E+23	2,663449E+23
-2864	7,546255E+22	7,546182E+22	5,770894E+22	5,770824E+22	1,509244E+23	1,154172E+23	2,663416E+23
-2863	7,545990E+22	7,546267E+22	5,771012E+22	5,770966E+22	1,509226E+23	1,154198E+23	2,663424E+23
-2862	7,546332E+22	7,546249E+22	5,770887E+22	5,771092E+22	1,509258E+23	1,154198E+23	2,663456E+23
-2861	7,546182E+22	7,546153E+22	5,770907E+22	5,770789E+22	1,509233E+23	1,154170E+23	2,663403E+23
-2860	7,546133E+22	7,546220E+22	5,770973E+22	5,770953E+22	1,509235E+23	1,154193E+23	2,663428E+23
-2859	7,546430E+22	7,546231E+22	5,770796E+22	5,770843E+22	1,509266E+23	1,154164E+23	2,663430E+23
-2858	7,546104E+22	7,546245E+22	5,770829E+22	5,770659E+22	1,509235E+23	1,154149E+23	2,663384E+23
-2857	7,546206E+22	7,546282E+22	5,770775E+22	5,770903E+22	1,509249E+23	1,154168E+23	2,663417E+23
-2856	7,546268E+22	7,546224E+22	5,770663E+22	5,770628E+22	1,509249E+23	1,154129E+23	2,663378E+23
-2855	7,545983E+22	7,546234E+22	5,770770E+22	5,770617E+22	1,509222E+23	1,154139E+23	2,663360E+23
-2854	7,546330E+22	7,546202E+22	5,770667E+22	5,770784E+22	1,509253E+23	1,154145E+23	2,663398E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,546243E+22	7,546123E+22	5,770647E+22	5,770542E+22	1,509237E+23	1,154119E+23	2,663356E+23
-2852	7,546035E+22	7,546217E+22	5,770731E+22	5,770758E+22	1,509225E+23	1,154149E+23	2,663374E+23
-2851	7,546365E+22	7,546254E+22	5,770618E+22	5,770806E+22	1,509262E+23	1,154142E+23	2,663404E+23
-2850	7,546119E+22	7,546215E+22	5,770749E+22	5,770628E+22	1,509233E+23	1,154138E+23	2,663371E+23
-2849	7,546177E+22	7,546223E+22	5,770868E+22	5,770914E+22	1,509240E+23	1,154178E+23	2,663418E+23
-2848	7,546383E+22	7,546195E+22	5,770854E+22	5,770802E+22	1,509258E+23	1,154166E+23	2,663423E+23
-2847	7,546030E+22	7,546223E+22	5,771038E+22	5,770848E+22	1,509225E+23	1,154189E+23	2,663414E+23
-2846	7,546240E+22	7,546256E+22	5,771004E+22	5,771155E+22	1,509250E+23	1,154216E+23	2,663465E+23
-2845	7,546225E+22	7,546189E+22	5,770985E+22	5,770978E+22	1,509241E+23	1,154196E+23	2,663438E+23
-2844	7,545945E+22	7,546208E+22	5,771107E+22	5,771088E+22	1,509215E+23	1,154219E+23	2,663435E+23
-2843	7,546350E+22	7,546201E+22	5,770991E+22	5,771129E+22	1,509255E+23	1,154212E+23	2,663467E+23
-2842	7,546216E+22	7,546129E+22	5,771026E+22	5,770846E+22	1,509235E+23	1,154187E+23	2,663422E+23
-2841	7,546129E+22	7,546184E+22	5,771021E+22	5,771038E+22	1,509231E+23	1,154206E+23	2,663437E+23
-2840	7,546377E+22	7,546235E+22	5,770849E+22	5,770924E+22	1,509261E+23	1,154177E+23	2,663439E+23
-2839	7,546006E+22	7,546238E+22	5,770911E+22	5,770771E+22	1,509224E+23	1,154168E+23	2,663393E+23
-2838	7,546149E+22	7,546249E+22	5,770849E+22	5,770947E+22	1,509240E+23	1,154180E+23	2,663419E+23
-2837	7,546302E+22	7,546170E+22	5,770760E+22	5,770699E+22	1,509247E+23	1,154146E+23	2,663393E+23
-2836	7,545972E+22	7,546150E+22	5,770856E+22	5,770720E+22	1,509212E+23	1,154158E+23	2,663370E+23
-2835	7,546320E+22	7,546198E+22	5,770741E+22	5,770874E+22	1,509252E+23	1,154161E+23	2,663413E+23
-2834	7,546226E+22	7,546156E+22	5,770741E+22	5,770661E+22	1,509238E+23	1,154140E+23	2,663378E+23
-2833	7,546010E+22	7,546201E+22	5,770806E+22	5,770867E+22	1,509221E+23	1,154167E+23	2,663388E+23
-2832	7,546365E+22	7,546238E+22	5,770752E+22	5,770873E+22	1,509260E+23	1,154163E+23	2,663423E+23
-2831	7,546095E+22	7,546178E+22	5,770924E+22	5,770734E+22	1,509227E+23	1,154166E+23	2,663393E+23
-2830	7,546145E+22	7,546202E+22	5,771010E+22	5,771015E+22	1,509235E+23	1,154203E+23	2,663437E+23
-2829	7,546359E+22	7,546197E+22	5,770968E+22	5,770981E+22	1,509256E+23	1,154195E+23	2,663450E+23
-2828	7,545917E+22	7,546175E+22	5,771124E+22	5,771043E+22	1,509209E+23	1,154217E+23	2,663426E+23
-2827	7,546183E+22	7,546227E+22	5,771092E+22	5,771271E+22	1,509241E+23	1,154236E+23	2,663477E+23
-2826	7,546243E+22	7,546136E+22	5,771097E+22	5,771051E+22	1,509238E+23	1,154215E+23	2,663453E+23
-2825	7,545994E+22	7,546119E+22	5,771179E+22	5,771138E+22	1,509211E+23	1,154232E+23	2,663443E+23
-2824	7,546401E+22	7,546173E+22	5,771079E+22	5,771167E+22	1,509257E+23	1,154225E+23	2,663482E+23
-2823	7,546170E+22	7,546158E+22	5,771113E+22	5,770944E+22	1,509233E+23	1,154206E+23	2,663438E+23
-2822	7,546051E+22	7,546233E+22	5,771083E+22	5,771108E+22	1,509228E+23	1,154219E+23	2,663448E+23
-2821	7,546334E+22	7,546254E+22	5,770933E+22	5,771020E+22	1,509259E+23	1,154195E+23	2,663454E+23
-2820	7,545931E+22	7,546163E+22	5,771020E+22	5,770865E+22	1,509209E+23	1,154189E+23	2,663398E+23
-2819	7,546142E+22	7,546176E+22	5,770965E+22	5,770997E+22	1,509232E+23	1,154196E+23	2,663428E+23
-2818	7,546321E+22	7,546115E+22	5,770876E+22	5,770794E+22	1,509244E+23	1,154167E+23	2,663411E+23
-2817	7,545964E+22	7,546103E+22	5,770890E+22	5,770850E+22	1,509207E+23	1,154174E+23	2,663381E+23
-2816	7,546301E+22	7,546194E+22	5,770791E+22	5,770978E+22	1,509249E+23	1,154177E+23	2,663426E+23
-2815	7,546176E+22	7,546168E+22	5,770837E+22	5,770776E+22	1,509234E+23	1,154161E+23	2,663396E+23
-2814	7,545997E+22	7,546195E+22	5,770921E+22	5,770910E+22	1,509219E+23	1,154183E+23	2,663402E+23
-2813	7,546393E+22	7,546227E+22	5,770898E+22	5,770962E+22	1,509262E+23	1,154186E+23	2,663448E+23
-2812	7,546045E+22	7,546135E+22	5,771074E+22	5,770882E+22	1,509218E+23	1,154196E+23	2,663414E+23
-2811	7,546075E+22	7,546198E+22	5,771130E+22	5,771150E+22	1,509227E+23	1,154228E+23	2,663455E+23
-2810	7,546300E+22	7,546193E+22	5,771093E+22	5,771143E+22	1,509249E+23	1,154224E+23	2,663473E+23
-2809	7,545891E+22	7,546105E+22	5,771197E+22	5,771175E+22	1,509200E+23	1,154237E+23	2,663437E+23
-2808	7,546209E+22	7,546151E+22	5,771198E+22	5,771332E+22	1,509236E+23	1,154253E+23	2,663489E+23
-2807	7,546265E+22	7,546094E+22	5,771222E+22	5,771130E+22	1,509236E+23	1,154235E+23	2,663471E+23
-2806	7,546003E+22	7,546112E+22	5,771263E+22	5,771187E+22	1,509212E+23	1,154245E+23	2,663457E+23
-2805	7,546381E+22	7,546218E+22	5,771146E+22	5,771276E+22	1,509260E+23	1,154242E+23	2,663502E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,546054E+22	7,546155E+22	5,771188E+22	5,771073E+22	1,509221E+23	1,154226E+23	2,663447E+23
-2803	7,545965E+22	7,546220E+22	5,771174E+22	5,771171E+22	1,509218E+23	1,154234E+23	2,663453E+23
-2802	7,546318E+22	7,546202E+22	5,771058E+22	5,771084E+22	1,509252E+23	1,154214E+23	2,663466E+23
-2801	7,545952E+22	7,546051E+22	5,771091E+22	5,770940E+22	1,509200E+23	1,154203E+23	2,663403E+23
-2800	7,546176E+22	7,546114E+22	5,771039E+22	5,771073E+22	1,509229E+23	1,154211E+23	2,663440E+23
-2799	7,546290E+22	7,546130E+22	5,770943E+22	5,770924E+22	1,509242E+23	1,154187E+23	2,663429E+23
-2798	7,545925E+22	7,546145E+22	5,770941E+22	5,770935E+22	1,509207E+23	1,154188E+23	2,663395E+23
-2797	7,546296E+22	7,546238E+22	5,770881E+22	5,771074E+22	1,509253E+23	1,154195E+23	2,663449E+23
-2796	7,546121E+22	7,546128E+22	5,770979E+22	5,770868E+22	1,509225E+23	1,154185E+23	2,663410E+23
-2795	7,545974E+22	7,546158E+22	5,771088E+22	5,770979E+22	1,509213E+23	1,154207E+23	2,663420E+23
-2794	7,546369E+22	7,546189E+22	5,771063E+22	5,771094E+22	1,509256E+23	1,154216E+23	2,663471E+23
-2793	7,545978E+22	7,546066E+22	5,771156E+22	5,771061E+22	1,509204E+23	1,154222E+23	2,663426E+23
-2792	7,546033E+22	7,546139E+22	5,771219E+22	5,771294E+22	1,509217E+23	1,154251E+23	2,663468E+23
-2791	7,546262E+22	7,546147E+22	5,771197E+22	5,771273E+22	1,509241E+23	1,154247E+23	2,663488E+23
-2790	7,545924E+22	7,546062E+22	5,771284E+22	5,771219E+22	1,509199E+23	1,154250E+23	2,663449E+23
-2789	7,546282E+22	7,546147E+22	5,771291E+22	5,771397E+22	1,509243E+23	1,154269E+23	2,663512E+23
-2788	7,546229E+22	7,546097E+22	5,771327E+22	5,771233E+22	1,509233E+23	1,154256E+23	2,663489E+23
-2787	7,545935E+22	7,546170E+22	5,771362E+22	5,771269E+22	1,509210E+23	1,154263E+23	2,663474E+23
-2786	7,546301E+22	7,546253E+22	5,771271E+22	5,771383E+22	1,509255E+23	1,154265E+23	2,663521E+23
-2785	7,545986E+22	7,546098E+22	5,771275E+22	5,771178E+22	1,509208E+23	1,154245E+23	2,663454E+23
-2784	7,545961E+22	7,546119E+22	5,771286E+22	5,771228E+22	1,509208E+23	1,154251E+23	2,663459E+23
-2783	7,546315E+22	7,546129E+22	5,771167E+22	5,771183E+22	1,509244E+23	1,154235E+23	2,663479E+23
-2782	7,545965E+22	7,546015E+22	5,771134E+22	5,771020E+22	1,509198E+23	1,154215E+23	2,663414E+23
-2781	7,546174E+22	7,546143E+22	5,771058E+22	5,771194E+22	1,509232E+23	1,154225E+23	2,663457E+23
-2780	7,546216E+22	7,546135E+22	5,771002E+22	5,771044E+22	1,509235E+23	1,154205E+23	2,663440E+23
-2779	7,545886E+22	7,546148E+22	5,771040E+22	5,770970E+22	1,509203E+23	1,154201E+23	2,663404E+23
-2778	7,546291E+22	7,546215E+22	5,771044E+22	5,771119E+22	1,509251E+23	1,154216E+23	2,663467E+23
-2777	7,546120E+22	7,546053E+22	5,771105E+22	5,770965E+22	1,509217E+23	1,154207E+23	2,663424E+23
-2776	7,545954E+22	7,546098E+22	5,771221E+22	5,771097E+22	1,509205E+23	1,154232E+23	2,663437E+23
-2775	7,546288E+22	7,546187E+22	5,771181E+22	5,771277E+22	1,509248E+23	1,154246E+23	2,663493E+23
-2774	7,545933E+22	7,546047E+22	5,771234E+22	5,771194E+22	1,509198E+23	1,154243E+23	2,663441E+23
-2773	7,546044E+22	7,546129E+22	5,771304E+22	5,771416E+22	1,509217E+23	1,154272E+23	2,663489E+23
-2772	7,546249E+22	7,546093E+22	5,771325E+22	5,771374E+22	1,509234E+23	1,154270E+23	2,663504E+23
-2771	7,545937E+22	7,546051E+22	5,771417E+22	5,771274E+22	1,509199E+23	1,154269E+23	2,663468E+23
-2770	7,546266E+22	7,546173E+22	5,771427E+22	5,771500E+22	1,509244E+23	1,154293E+23	2,663537E+23
-2769	7,546150E+22	7,546089E+22	5,771397E+22	5,771374E+22	1,509224E+23	1,154277E+23	2,663501E+23
-2768	7,545868E+22	7,546132E+22	5,771459E+22	5,771374E+22	1,509200E+23	1,154283E+23	2,663483E+23
-2767	7,546233E+22	7,546207E+22	5,771382E+22	5,771481E+22	1,509244E+23	1,154286E+23	2,663530E+23
-2766	7,545998E+22	7,546017E+22	5,771354E+22	5,771224E+22	1,509201E+23	1,154258E+23	2,663459E+23
-2765	7,546023E+22	7,546079E+22	5,771341E+22	5,771308E+22	1,509210E+23	1,154265E+23	2,663475E+23
-2764	7,546281E+22	7,546099E+22	5,771223E+22	5,771290E+22	1,509238E+23	1,154251E+23	2,663489E+23
-2763	7,545927E+22	7,546061E+22	5,771185E+22	5,771089E+22	1,509199E+23	1,154227E+23	2,663426E+23
-2762	7,546143E+22	7,546184E+22	5,771152E+22	5,771266E+22	1,509233E+23	1,154242E+23	2,663475E+23
-2761	7,546172E+22	7,546100E+22	5,771094E+22	5,771117E+22	1,509227E+23	1,154221E+23	2,663448E+23
-2760	7,545893E+22	7,546074E+22	5,771196E+22	5,771024E+22	1,509197E+23	1,154222E+23	2,663419E+23
-2759	7,546252E+22	7,546166E+22	5,771208E+22	5,771234E+22	1,509242E+23	1,154244E+23	2,663486E+23
-2758	7,546081E+22	7,546017E+22	5,771201E+22	5,771105E+22	1,509210E+23	1,154231E+23	2,663441E+23
-2757	7,545917E+22	7,546098E+22	5,771278E+22	5,771281E+22	1,509201E+23	1,154256E+23	2,663457E+23
-2756	7,546198E+22	7,546147E+22	5,771269E+22	5,771446E+22	1,509234E+23	1,154272E+23	2,663506E+23

1	14	15	16	17	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							
-2755	7,545924E+22	7,546026E+22	5,771339E+22	5,771268E+22	1,509195E+23	1,154261E+23	2,663456E+23
-2754	7,546088E+22	7,546108E+22	5,771448E+22	5,771480E+22	1,509220E+23	1,154293E+23	2,663512E+23
-2753	7,546266E+22	7,546057E+22	5,771435E+22	5,771470E+22	1,509232E+23	1,154290E+23	2,663523E+23
-2752	7,545933E+22	7,546043E+22	5,771544E+22	5,771369E+22	1,509198E+23	1,154291E+23	2,663489E+23
-2751	7,546172E+22	7,546214E+22	5,771554E+22	5,771637E+22	1,509239E+23	1,154319E+23	2,663558E+23
-2750	7,546090E+22	7,546084E+22	5,771485E+22	5,771477E+22	1,509217E+23	1,154296E+23	2,663514E+23
-2749	7,545851E+22	7,546095E+22	5,771539E+22	5,771468E+22	1,509195E+23	1,154301E+23	2,663495E+23
-2748	7,546197E+22	7,546115E+22	5,771492E+22	5,771572E+22	1,509231E+23	1,154306E+23	2,663538E+23
-2747	7,546011E+22	7,545959E+22	5,771432E+22	5,771276E+22	1,509197E+23	1,154271E+23	2,663468E+23
-2746	7,546017E+22	7,546078E+22	5,771404E+22	5,771400E+22	1,509210E+23	1,154280E+23	2,663490E+23
-2745	7,546230E+22	7,546088E+22	5,771242E+22	5,771402E+22	1,509232E+23	1,154264E+23	2,663496E+23
-2744	7,545905E+22	7,546031E+22	5,771259E+22	5,771149E+22	1,509194E+23	1,154241E+23	2,663434E+23
-2743	7,546098E+22	7,546176E+22	5,771276E+22	5,771321E+22	1,509227E+23	1,154260E+23	2,663487E+23
-2742	7,546185E+22	7,546052E+22	5,771202E+22	5,771163E+22	1,509224E+23	1,154237E+23	2,663460E+23
-2741	7,545908E+22	7,546052E+22	5,771294E+22	5,771139E+22	1,509196E+23	1,154243E+23	2,663439E+23
-2740	7,546160E+22	7,546144E+22	5,771320E+22	5,771404E+22	1,509230E+23	1,154272E+23	2,663503E+23
-2739	7,546010E+22	7,546030E+22	5,771296E+22	5,771247E+22	1,509204E+23	1,154254E+23	2,663458E+23
-2738	7,545888E+22	7,546101E+22	5,771395E+22	5,771415E+22	1,509199E+23	1,154281E+23	2,663480E+23
-2737	7,546186E+22	7,546080E+22	5,771374E+22	5,771557E+22	1,509227E+23	1,154293E+23	2,663520E+23
-2736	7,545982E+22	7,545948E+22	5,771491E+22	5,771337E+22	1,509193E+23	1,154283E+23	2,663476E+23
-2735	7,546085E+22	7,546100E+22	5,771603E+22	5,771583E+22	1,509218E+23	1,154319E+23	2,663537E+23
-2734	7,546235E+22	7,546063E+22	5,771528E+22	5,771590E+22	1,509230E+23	1,154312E+23	2,663542E+23
-2733	7,545889E+22	7,546070E+22	5,771615E+22	5,771522E+22	1,509196E+23	1,154314E+23	2,663510E+23
-2732	7,546054E+22	7,546168E+22	5,771661E+22	5,771760E+22	1,509222E+23	1,154342E+23	2,663564E+23
-2731	7,546053E+22	7,546033E+22	5,771590E+22	5,771530E+22	1,509209E+23	1,154312E+23	2,663521E+23
-2730	7,545886E+22	7,546036E+22	5,771646E+22	5,771527E+22	1,509192E+23	1,154317E+23	2,663510E+23
-2729	7,546196E+22	7,546039E+22	5,771545E+22	5,771663E+22	1,509224E+23	1,154321E+23	2,663544E+23
-2728	7,546024E+22	7,545938E+22	5,771491E+22	5,771358E+22	1,509196E+23	1,154285E+23	2,663481E+23
-2727	7,545962E+22	7,546123E+22	5,771474E+22	5,771492E+22	1,509208E+23	1,154297E+23	2,663505E+23
-2726	7,546202E+22	7,546101E+22	5,771302E+22	5,771462E+22	1,509230E+23	1,154276E+23	2,663507E+23
-2725	7,545915E+22	7,546030E+22	5,771346E+22	5,771214E+22	1,509194E+23	1,154256E+23	2,663450E+23
-2724	7,546039E+22	7,546118E+22	5,771424E+22	5,771406E+22	1,509216E+23	1,154283E+23	2,663499E+23
-2723	7,546151E+22	7,546027E+22	5,771327E+22	5,771262E+22	1,509218E+23	1,154259E+23	2,663477E+23
-2722	7,545863E+22	7,546046E+22	5,771399E+22	5,771296E+22	1,509191E+23	1,154270E+23	2,663460E+23
-2721	7,546083E+22	7,546089E+22	5,771384E+22	5,771579E+22	1,509217E+23	1,154296E+23	2,663513E+23
-2720	7,546013E+22	7,545953E+22	5,771399E+22	5,771354E+22	1,509197E+23	1,154275E+23	2,663472E+23
-2719	7,545896E+22	7,546069E+22	5,771529E+22	5,771496E+22	1,509197E+23	1,154302E+23	2,663499E+23
-2718	7,546250E+22	7,546042E+22	5,771484E+22	5,771622E+22	1,509229E+23	1,154311E+23	2,663540E+23
-2717	7,546020E+22	7,545964E+22	5,771588E+22	5,771443E+22	1,509198E+23	1,154303E+23	2,663502E+23
-2716	7,545986E+22	7,546125E+22	5,771734E+22	5,771725E+22	1,509211E+23	1,154346E+23	2,663557E+23
-2715	7,546148E+22	7,546095E+22	5,771641E+22	5,771704E+22	1,509224E+23	1,154335E+23	2,663559E+23
-2714	7,545825E+22	7,546059E+22	5,771747E+22	5,771638E+22	1,509188E+23	1,154339E+23	2,663527E+23
-2713	7,546003E+22	7,546069E+22	5,771766E+22	5,771865E+22	1,509207E+23	1,154363E+23	2,663570E+23
-2712	7,546093E+22	7,545910E+22	5,771705E+22	5,771601E+22	1,509200E+23	1,154331E+23	2,663531E+23
-2711	7,545881E+22	7,546006E+22	5,771731E+22	5,771624E+22	1,509189E+23	1,154335E+23	2,663524E+23
-2710	7,546189E+22	7,546035E+22	5,771557E+22	5,771762E+22	1,509222E+23	1,154332E+23	2,663554E+23
-2709	7,546012E+22	7,545972E+22	5,771500E+22	5,771455E+22	1,509198E+23	1,154296E+23	2,663494E+23
-2708	7,545883E+22	7,546114E+22	5,771563E+22	5,771555E+22	1,509200E+23	1,154312E+23	2,663512E+23
-2707	7,546181E+22	7,546089E+22	5,771416E+22	5,771476E+22	1,509227E+23	1,154289E+23	2,663516E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,545928E+22	7,546006E+22	5,771486E+22	5,771282E+22	1,509193E+23	1,154277E+23	2,663470E+23
-2705	7,545984E+22	7,546055E+22	5,771526E+22	5,771532E+22	1,509204E+23	1,154306E+23	2,663510E+23
-2704	7,546123E+22	7,545981E+22	5,771435E+22	5,771403E+22	1,509210E+23	1,154284E+23	2,663494E+23
-2703	7,545808E+22	7,546047E+22	5,771503E+22	5,771441E+22	1,509185E+23	1,154294E+23	2,663480E+23
-2702	7,546080E+22	7,546046E+22	5,771461E+22	5,771684E+22	1,509213E+23	1,154314E+23	2,663527E+23
-2701	7,546073E+22	7,545929E+22	5,771492E+22	5,771445E+22	1,509200E+23	1,154294E+23	2,663494E+23
-2700	7,545885E+22	7,546021E+22	5,771680E+22	5,771583E+22	1,509191E+23	1,154326E+23	2,663517E+23
-2699	7,546218E+22	7,546060E+22	5,771615E+22	5,771717E+22	1,509228E+23	1,154333E+23	2,663561E+23
-2698	7,545964E+22	7,546009E+22	5,771711E+22	5,771598E+22	1,509197E+23	1,154331E+23	2,663528E+23
-2697	7,545861E+22	7,546088E+22	5,771832E+22	5,771885E+22	1,509195E+23	1,154372E+23	2,663566E+23
-2696	7,546112E+22	7,546011E+22	5,771770E+22	5,771810E+22	1,509212E+23	1,154358E+23	2,663570E+23
-2695	7,545816E+22	7,545989E+22	5,771874E+22	5,771719E+22	1,509180E+23	1,154359E+23	2,663540E+23
-2694	7,546052E+22	7,545983E+22	5,771835E+22	5,771937E+22	1,509204E+23	1,154377E+23	2,663581E+23
-2693	7,546142E+22	7,545908E+22	5,771737E+22	5,771698E+22	1,509205E+23	1,154343E+23	2,663549E+23
-2692	7,545818E+22	7,546033E+22	5,771794E+22	5,771723E+22	1,509185E+23	1,154352E+23	2,663537E+23
-2691	7,546137E+22	7,546094E+22	5,771625E+22	5,771817E+22	1,509223E+23	1,154344E+23	2,663567E+23
-2690	7,545985E+22	7,546006E+22	5,771611E+22	5,771511E+22	1,509199E+23	1,154312E+23	2,663511E+23
-2689	7,545831E+22	7,546047E+22	5,771688E+22	5,771617E+22	1,509188E+23	1,154331E+23	2,663518E+23
-2688	7,546192E+22	7,545991E+22	5,771565E+22	5,771546E+22	1,509218E+23	1,154311E+23	2,663529E+23
-2687	7,545878E+22	7,545974E+22	5,771608E+22	5,771414E+22	1,509185E+23	1,154302E+23	2,663487E+23
-2686	7,545947E+22	7,546013E+22	5,771571E+22	5,771688E+22	1,509196E+23	1,154326E+23	2,663522E+23
-2685	7,546110E+22	7,545956E+22	5,771466E+22	5,771542E+22	1,509207E+23	1,154301E+23	2,663507E+23
-2684	7,545762E+22	7,546005E+22	5,771601E+22	5,771536E+22	1,509177E+23	1,154314E+23	2,663490E+23
-2683	7,546106E+22	7,546027E+22	5,771571E+22	5,771722E+22	1,509213E+23	1,154329E+23	2,663543E+23
-2682	7,546105E+22	7,545940E+22	5,771628E+22	5,771529E+22	1,509205E+23	1,154316E+23	2,663520E+23
-2681	7,545822E+22	7,546012E+22	5,771806E+22	5,771716E+22	1,509183E+23	1,154352E+23	2,663536E+23
-2680	7,546163E+22	7,546047E+22	5,771759E+22	5,771856E+22	1,509221E+23	1,154362E+23	2,663583E+23
-2679	7,545871E+22	7,546017E+22	5,771862E+22	5,771745E+22	1,509189E+23	1,154361E+23	2,663549E+23
-2678	7,545828E+22	7,546016E+22	5,771936E+22	5,772000E+22	1,509184E+23	1,154394E+23	2,663578E+23
-2677	7,546148E+22	7,545936E+22	5,771862E+22	5,771909E+22	1,509208E+23	1,154377E+23	2,663585E+23
-2676	7,545809E+22	7,545915E+22	5,771987E+22	5,771817E+22	1,509172E+23	1,154380E+23	2,663553E+23
-2675	7,546045E+22	7,545986E+22	5,771897E+22	5,772019E+22	1,509203E+23	1,154392E+23	2,663595E+23
-2674	7,546120E+22	7,545965E+22	5,771792E+22	5,771808E+22	1,509209E+23	1,154360E+23	2,663569E+23
-2673	7,545738E+22	7,546018E+22	5,771860E+22	5,771807E+22	1,509176E+23	1,154367E+23	2,663542E+23
-2672	7,546124E+22	7,546045E+22	5,771748E+22	5,771849E+22	1,509217E+23	1,154360E+23	2,663577E+23
-2671	7,545973E+22	7,545977E+22	5,771754E+22	5,771557E+22	1,509195E+23	1,154331E+23	2,663526E+23
-2670	7,545829E+22	7,545974E+22	5,771775E+22	5,771698E+22	1,509180E+23	1,154347E+23	2,663528E+23
-2669	7,546181E+22	7,545979E+22	5,771619E+22	5,771680E+22	1,509216E+23	1,154330E+23	2,663546E+23
-2668	7,545794E+22	7,545956E+22	5,771683E+22	5,771559E+22	1,509175E+23	1,154324E+23	2,663499E+23
-2667	7,545896E+22	7,546015E+22	5,771638E+22	5,771784E+22	1,509191E+23	1,154342E+23	2,663533E+23
-2666	7,546119E+22	7,545966E+22	5,771567E+22	5,771633E+22	1,509208E+23	1,154320E+23	2,663528E+23
-2665	7,545750E+22	7,545937E+22	5,771727E+22	5,771612E+22	1,509169E+23	1,154334E+23	2,663503E+23
-2664	7,546132E+22	7,545974E+22	5,771731E+22	5,771804E+22	1,509211E+23	1,154353E+23	2,663564E+23
-2663	7,546052E+22	7,545965E+22	5,771776E+22	5,771666E+22	1,509202E+23	1,154344E+23	2,663546E+23
-2662	7,545751E+22	7,545993E+22	5,771898E+22	5,771880E+22	1,509174E+23	1,154378E+23	2,663552E+23
-2661	7,546116E+22	7,546023E+22	5,771848E+22	5,772001E+22	1,509214E+23	1,154385E+23	2,663599E+23
-2660	7,545813E+22	7,545942E+22	5,772000E+22	5,771857E+22	1,509176E+23	1,154386E+23	2,663561E+23
-2659	7,545848E+22	7,545957E+22	5,772048E+22	5,772064E+22	1,509180E+23	1,154411E+23	2,663592E+23
-2658	7,546189E+22	7,545930E+22	5,771959E+22	5,772005E+22	1,509212E+23	1,154396E+23	2,663608E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2657	7,545771E+22	7,545905E+22	5,772060E+22	5,771932E+22	1,509168E+23	1,154399E+23	2,663567E+23
-2656	7,546027E+22	7,545996E+22	5,771986E+22	5,772107E+22	1,509202E+23	1,154409E+23	2,663612E+23
-2655	7,546053E+22	7,546009E+22	5,771906E+22	5,771884E+22	1,509206E+23	1,154379E+23	2,663585E+23
-2654	7,545718E+22	7,545978E+22	5,771953E+22	5,771870E+22	1,509170E+23	1,154382E+23	2,663552E+23
-2653	7,546133E+22	7,545982E+22	5,771843E+22	5,771905E+22	1,509211E+23	1,154375E+23	2,663586E+23
-2652	7,545916E+22	7,545910E+22	5,771873E+22	5,771662E+22	1,509183E+23	1,154354E+23	2,663536E+23
-2651	7,545775E+22	7,545957E+22	5,771830E+22	5,771814E+22	1,509173E+23	1,154364E+23	2,663538E+23
-2650	7,546128E+22	7,545992E+22	5,771662E+22	5,771826E+22	1,509212E+23	1,154349E+23	2,663561E+23
-2649	7,545731E+22	7,545901E+22	5,771742E+22	5,771670E+22	1,509163E+23	1,154341E+23	2,663504E+23
-2648	7,545931E+22	7,545944E+22	5,771747E+22	5,771829E+22	1,509187E+23	1,154358E+23	2,663545E+23
-2647	7,546144E+22	7,545954E+22	5,771712E+22	5,771684E+22	1,509210E+23	1,154340E+23	2,663549E+23
-2646	7,545774E+22	7,545908E+22	5,771837E+22	5,771706E+22	1,509168E+23	1,154354E+23	2,663523E+23
-2645	7,546105E+22	7,545998E+22	5,771837E+22	5,771933E+22	1,509210E+23	1,154377E+23	2,663587E+23
-2644	7,545944E+22	7,545978E+22	5,771924E+22	5,771832E+22	1,509192E+23	1,154376E+23	2,663568E+23
-2643	7,545676E+22	7,545984E+22	5,772025E+22	5,772005E+22	1,509166E+23	1,154403E+23	2,663569E+23
-2642	7,546100E+22	7,545999E+22	5,771984E+22	5,772128E+22	1,509210E+23	1,154411E+23	2,663621E+23
-2641	7,545804E+22	7,545834E+22	5,772130E+22	5,771971E+22	1,509164E+23	1,154410E+23	2,663574E+23
-2640	7,545883E+22	7,545886E+22	5,772167E+22	5,772166E+22	1,509177E+23	1,154433E+23	2,663610E+23
-2639	7,546160E+22	7,545966E+22	5,772055E+22	5,772129E+22	1,509213E+23	1,154418E+23	2,663631E+23
-2638	7,545733E+22	7,545901E+22	5,772097E+22	5,772044E+22	1,509163E+23	1,154414E+23	2,663578E+23
-2637	7,546000E+22	7,545996E+22	5,772048E+22	5,772172E+22	1,509200E+23	1,154422E+23	2,663622E+23
-2636	7,546006E+22	7,545966E+22	5,772026E+22	5,771933E+22	1,509197E+23	1,154396E+23	2,663593E+23
-2635	7,545704E+22	7,545930E+22	5,772052E+22	5,771906E+22	1,509163E+23	1,154396E+23	2,663559E+23
-2634	7,546115E+22	7,545984E+22	5,771926E+22	5,772007E+22	1,509210E+23	1,154393E+23	2,663603E+23
-2633	7,545839E+22	7,545865E+22	5,771938E+22	5,771797E+22	1,509170E+23	1,154374E+23	2,663544E+23
-2632	7,545749E+22	7,545924E+22	5,771902E+22	5,771923E+22	1,509167E+23	1,154382E+23	2,663550E+23
-2631	7,546096E+22	7,545997E+22	5,771763E+22	5,771909E+22	1,509209E+23	1,154367E+23	2,663577E+23
-2630	7,545760E+22	7,545842E+22	5,771824E+22	5,771735E+22	1,509160E+23	1,154356E+23	2,663516E+23
-2629	7,545982E+22	7,545906E+22	5,771856E+22	5,771883E+22	1,509189E+23	1,154374E+23	2,663563E+23
-2628	7,546104E+22	7,545942E+22	5,771860E+22	5,771800E+22	1,509205E+23	1,154366E+23	2,663571E+23
-2627	7,545704E+22	7,545933E+22	5,771947E+22	5,771848E+22	1,509164E+23	1,154379E+23	2,663543E+23
-2626	7,546016E+22	7,546033E+22	5,771944E+22	5,772103E+22	1,509205E+23	1,154405E+23	2,663610E+23
-2625	7,545852E+22	7,545905E+22	5,772054E+22	5,771985E+22	1,509176E+23	1,154404E+23	2,663580E+23
-2624	7,545695E+22	7,545884E+22	5,772168E+22	5,772102E+22	1,509158E+23	1,154427E+23	2,663585E+23
-2623	7,546113E+22	7,545953E+22	5,772127E+22	5,772222E+22	1,509207E+23	1,154435E+23	2,663641E+23
-2622	7,545841E+22	7,545791E+22	5,772199E+22	5,772092E+22	1,509163E+23	1,154429E+23	2,663592E+23
-2621	7,545889E+22	7,545902E+22	5,772218E+22	5,772270E+22	1,509179E+23	1,154449E+23	2,663628E+23
-2620	7,546079E+22	7,545998E+22	5,772155E+22	5,772238E+22	1,509208E+23	1,154439E+23	2,663647E+23
-2619	7,545684E+22	7,545920E+22	5,772192E+22	5,772102E+22	1,509160E+23	1,154429E+23	2,663590E+23
-2618	7,545970E+22	7,545993E+22	5,772163E+22	5,772229E+22	1,509196E+23	1,154439E+23	2,663636E+23
-2617	7,545963E+22	7,545870E+22	5,772151E+22	5,772019E+22	1,509183E+23	1,154417E+23	2,663600E+23
-2616	7,545696E+22	7,545849E+22	5,772150E+22	5,772005E+22	1,509154E+23	1,154415E+23	2,663570E+23
-2615	7,546049E+22	7,545982E+22	5,772000E+22	5,772135E+22	1,509203E+23	1,154413E+23	2,663617E+23
-2614	7,545817E+22	7,545814E+22	5,771956E+22	5,771920E+22	1,509163E+23	1,154388E+23	2,663551E+23
-2613	7,545769E+22	7,545885E+22	5,771947E+22	5,771979E+22	1,509165E+23	1,154393E+23	2,663558E+23
-2612	7,546100E+22	7,545966E+22	5,771881E+22	5,771959E+22	1,509207E+23	1,154384E+23	2,663591E+23
-2611	7,545786E+22	7,545840E+22	5,771931E+22	5,771781E+22	1,509163E+23	1,154371E+23	2,663534E+23
-2610	7,545958E+22	7,545966E+22	5,771971E+22	5,771996E+22	1,509192E+23	1,154397E+23	2,663589E+23
-2609	7,546004E+22	7,545940E+22	5,771988E+22	5,771967E+22	1,509194E+23	1,154395E+23	2,663590E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2608	7,545637E+22	7,545907E+22	5,772089E+22	5,772002E+22	1,509154E+23	1,154409E+23	2,663563E+23
-2607	7,545950E+22	7,546017E+22	5,772107E+22	5,772238E+22	1,509197E+23	1,154435E+23	2,663631E+23
-2606	7,545871E+22	7,545788E+22	5,772164E+22	5,772106E+22	1,509166E+23	1,154427E+23	2,663593E+23
-2605	7,545752E+22	7,545798E+22	5,772269E+22	5,772197E+22	1,509155E+23	1,154447E+23	2,663602E+23
-2604	7,546098E+22	7,545929E+22	5,772235E+22	5,772351E+22	1,509203E+23	1,154459E+23	2,663661E+23
-2603	7,545802E+22	7,545822E+22	5,772255E+22	5,772205E+22	1,509162E+23	1,154446E+23	2,663608E+23
-2602	7,545836E+22	7,545965E+22	5,772288E+22	5,772372E+22	1,509180E+23	1,154466E+23	2,663646E+23
-2601	7,546010E+22	7,545949E+22	5,772271E+22	5,772314E+22	1,509196E+23	1,154459E+23	2,663654E+23
-2600	7,545691E+22	7,545847E+22	5,772329E+22	5,772144E+22	1,509154E+23	1,154447E+23	2,663601E+23
-2599	7,545944E+22	7,545963E+22	5,772300E+22	5,772292E+22	1,509191E+23	1,154459E+23	2,663650E+23
-2598	7,545948E+22	7,545808E+22	5,772206E+22	5,772141E+22	1,509176E+23	1,154435E+23	2,663610E+23
-2597	7,545682E+22	7,545827E+22	5,772186E+22	5,772116E+22	1,509151E+23	1,154430E+23	2,663581E+23
-2596	7,545989E+22	7,545975E+22	5,772075E+22	5,772247E+22	1,509196E+23	1,154432E+23	2,663628E+23
-2595	7,545813E+22	7,545813E+22	5,772019E+22	5,771978E+22	1,509163E+23	1,154400E+23	2,663562E+23
-2594	7,545794E+22	7,545898E+22	5,772041E+22	5,772027E+22	1,509169E+23	1,154407E+23	2,663576E+23
-2593	7,546078E+22	7,545915E+22	5,772017E+22	5,772049E+22	1,509199E+23	1,154407E+23	2,663606E+23
-2592	7,545765E+22	7,545826E+22	5,772062E+22	5,771904E+22	1,509159E+23	1,154397E+23	2,663556E+23
-2591	7,545844E+22	7,545994E+22	5,772104E+22	5,772145E+22	1,509184E+23	1,154425E+23	2,663609E+23
-2590	7,545939E+22	7,545877E+22	5,772075E+22	5,772135E+22	1,509182E+23	1,154421E+23	2,663603E+23
-2589	7,545644E+22	7,545807E+22	5,772191E+22	5,772101E+22	1,509145E+23	1,154429E+23	2,663574E+23
-2588	7,545948E+22	7,545926E+22	5,772247E+22	5,772337E+22	1,509187E+23	1,154458E+23	2,663646E+23
-2587	7,545914E+22	7,545753E+22	5,772254E+22	5,772195E+22	1,509167E+23	1,154445E+23	2,663612E+23
-2586	7,545760E+22	7,545850E+22	5,772343E+22	5,772313E+22	1,509161E+23	1,154466E+23	2,663627E+23
-2585	7,546029E+22	7,545943E+22	5,772341E+22	5,772487E+22	1,509197E+23	1,154483E+23	2,663680E+23
-2584	7,545762E+22	7,545837E+22	5,772380E+22	5,772300E+22	1,509160E+23	1,154468E+23	2,663628E+23
-2583	7,545766E+22	7,545980E+22	5,772451E+22	5,772437E+22	1,509175E+23	1,154489E+23	2,663663E+23
-2582	7,546007E+22	7,545854E+22	5,772388E+22	5,772402E+22	1,509186E+23	1,154479E+23	2,663665E+23
-2581	7,545708E+22	7,545751E+22	5,772432E+22	5,772230E+22	1,509146E+23	1,154466E+23	2,663612E+23
-2580	7,545880E+22	7,545926E+22	5,772390E+22	5,772431E+22	1,509181E+23	1,154482E+23	2,663663E+23
-2579	7,545900E+22	7,545806E+22	5,772224E+22	5,772263E+22	1,509171E+23	1,154449E+23	2,663619E+23
-2578	7,545660E+22	7,545858E+22	5,772209E+22	5,772210E+22	1,509152E+23	1,154442E+23	2,663594E+23
-2577	7,545970E+22	7,545919E+22	5,772160E+22	5,772308E+22	1,509189E+23	1,154447E+23	2,663636E+23
-2576	7,545853E+22	7,545775E+22	5,772131E+22	5,772005E+22	1,509163E+23	1,154414E+23	2,663576E+23
-2575	7,545781E+22	7,545922E+22	5,772187E+22	5,772082E+22	1,509170E+23	1,154427E+23	2,663597E+23
-2574	7,546045E+22	7,545886E+22	5,772106E+22	5,772174E+22	1,509193E+23	1,154428E+23	2,663621E+23
-2573	7,545715E+22	7,545803E+22	5,772164E+22	5,772037E+22	1,509152E+23	1,154420E+23	2,663572E+23
-2572	7,545751E+22	7,545966E+22	5,772243E+22	5,772292E+22	1,509172E+23	1,154453E+23	2,663625E+23
-2571	7,545913E+22	7,545821E+22	5,772181E+22	5,772242E+22	1,509173E+23	1,154442E+23	2,663616E+23
-2570	7,545679E+22	7,545772E+22	5,772295E+22	5,772202E+22	1,509145E+23	1,154450E+23	2,663595E+23
-2569	7,545949E+22	7,545845E+22	5,772374E+22	5,772465E+22	1,509179E+23	1,154484E+23	2,663663E+23
-2568	7,545909E+22	7,545757E+22	5,772356E+22	5,772325E+22	1,509167E+23	1,154468E+23	2,663635E+23
-2567	7,545687E+22	7,545913E+22	5,772463E+22	5,772431E+22	1,509160E+23	1,154489E+23	2,663649E+23
-2566	7,545981E+22	7,545910E+22	5,772437E+22	5,772605E+22	1,509189E+23	1,154504E+23	2,663693E+23
-2565	7,545763E+22	7,545774E+22	5,772510E+22	5,772364E+22	1,509154E+23	1,154487E+23	2,663641E+23
-2564	7,545729E+22	7,545919E+22	5,772605E+22	5,772518E+22	1,509165E+23	1,154512E+23	2,663677E+23
-2563	7,545995E+22	7,545820E+22	5,772467E+22	5,772500E+22	1,509181E+23	1,154497E+23	2,663678E+23
-2562	7,545688E+22	7,545776E+22	5,772471E+22	5,772355E+22	1,509146E+23	1,154483E+23	2,663629E+23
-2561	7,545811E+22	7,545892E+22	5,772456E+22	5,772567E+22	1,509170E+23	1,154502E+23	2,663673E+23
-2560	7,545889E+22	7,545803E+22	5,772297E+22	5,772340E+22	1,509169E+23	1,154464E+23	2,663633E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,545643E+22	7,545865E+22	5,772325E+22	5,772232E+22	1,509151E+23	1,154456E+23	2,663606E+23
-2558	7,545998E+22	7,545844E+22	5,772257E+22	5,772359E+22	1,509184E+23	1,154462E+23	2,663646E+23
-2557	7,545881E+22	7,545716E+22	5,772241E+22	5,772070E+22	1,509160E+23	1,154431E+23	2,663591E+23
-2556	7,545682E+22	7,545916E+22	5,772307E+22	5,772217E+22	1,509160E+23	1,154452E+23	2,663612E+23
-2555	7,545957E+22	7,545887E+22	5,772173E+22	5,772317E+22	1,509184E+23	1,154449E+23	2,663633E+23
-2554	7,545673E+22	7,545791E+22	5,772240E+22	5,772164E+22	1,509146E+23	1,154440E+23	2,663587E+23
-2553	7,545723E+22	7,545858E+22	5,772375E+22	5,772406E+22	1,509158E+23	1,154478E+23	2,663636E+23
-2552	7,545955E+22	7,545760E+22	5,772306E+22	5,772328E+22	1,509172E+23	1,154463E+23	2,663635E+23
-2551	7,545679E+22	7,545794E+22	5,772430E+22	5,772298E+22	1,509147E+23	1,154473E+23	2,663620E+23
-2550	7,545935E+22	7,545841E+22	5,772457E+22	5,772614E+22	1,509178E+23	1,154507E+23	2,663685E+23
-2549	7,545885E+22	7,545766E+22	5,772470E+22	5,772445E+22	1,509165E+23	1,154491E+23	2,663657E+23
-2548	7,545601E+22	7,545926E+22	5,772626E+22	5,772550E+22	1,509153E+23	1,154518E+23	2,663670E+23
-2547	7,545948E+22	7,545879E+22	5,772564E+22	5,772686E+22	1,509183E+23	1,154525E+23	2,663708E+23
-2546	7,545770E+22	7,545741E+22	5,772629E+22	5,772461E+22	1,509151E+23	1,154509E+23	2,663660E+23
-2545	7,545685E+22	7,545828E+22	5,772725E+22	5,772658E+22	1,509151E+23	1,154538E+23	2,663690E+23
-2544	7,545946E+22	7,545802E+22	5,772528E+22	5,772632E+22	1,509175E+23	1,154516E+23	2,663691E+23
-2543	7,545630E+22	7,545801E+22	5,772535E+22	5,772455E+22	1,509143E+23	1,154499E+23	2,663642E+23
-2542	7,545811E+22	7,545818E+22	5,772490E+22	5,772639E+22	1,509163E+23	1,154513E+23	2,663676E+23
-2541	7,545936E+22	7,545732E+22	5,772383E+22	5,772346E+22	1,509167E+23	1,154473E+23	2,663640E+23
-2540	7,545642E+22	7,545844E+22	5,772453E+22	5,772268E+22	1,509149E+23	1,154472E+23	2,663621E+23
-2539	7,545974E+22	7,545850E+22	5,772336E+22	5,772426E+22	1,509182E+23	1,154476E+23	2,663659E+23
-2538	7,545829E+22	7,545773E+22	5,772311E+22	5,772198E+22	1,509160E+23	1,154451E+23	2,663611E+23
-2537	7,545572E+22	7,545877E+22	5,772425E+22	5,772378E+22	1,509145E+23	1,154480E+23	2,663625E+23
-2536	7,545895E+22	7,545860E+22	5,772290E+22	5,772439E+22	1,509176E+23	1,154473E+23	2,663648E+23
-2535	7,545656E+22	7,545759E+22	5,772386E+22	5,772253E+22	1,509142E+23	1,154464E+23	2,663605E+23
-2534	7,545764E+22	7,545744E+22	5,772480E+22	5,772523E+22	1,509151E+23	1,154500E+23	2,663651E+23
-2533	7,545996E+22	7,545707E+22	5,772420E+22	5,772442E+22	1,509170E+23	1,154486E+23	2,663656E+23
-2532	7,545615E+22	7,545825E+22	5,772551E+22	5,772447E+22	1,509144E+23	1,154500E+23	2,663644E+23
-2531	7,545873E+22	7,545871E+22	5,772542E+22	5,772740E+22	1,509174E+23	1,154528E+23	2,663703E+23
-2530	7,545860E+22	7,545787E+22	5,772577E+22	5,772549E+22	1,509165E+23	1,154513E+23	2,663677E+23
-2529	7,545556E+22	7,545836E+22	5,772794E+22	5,772653E+22	1,509139E+23	1,154545E+23	2,663684E+23
-2528	7,545942E+22	7,545833E+22	5,772702E+22	5,772776E+22	1,509177E+23	1,154548E+23	2,663725E+23
-2527	7,545738E+22	7,545734E+22	5,772745E+22	5,772563E+22	1,509147E+23	1,154531E+23	2,663678E+23
-2526	7,545654E+22	7,545771E+22	5,772772E+22	5,772801E+22	1,509142E+23	1,154557E+23	2,663700E+23
-2525	7,545943E+22	7,545763E+22	5,772592E+22	5,772721E+22	1,509171E+23	1,154531E+23	2,663702E+23
-2524	7,545586E+22	7,545795E+22	5,772633E+22	5,772517E+22	1,509138E+23	1,154515E+23	2,663653E+23
-2523	7,545823E+22	7,545798E+22	5,772561E+22	5,772664E+22	1,509162E+23	1,154523E+23	2,663685E+23
-2522	7,545966E+22	7,545736E+22	5,772463E+22	5,772397E+22	1,509170E+23	1,154486E+23	2,663656E+23
-2521	7,545576E+22	7,545803E+22	5,772571E+22	5,772391E+22	1,509138E+23	1,154496E+23	2,663634E+23
-2520	7,545874E+22	7,545874E+22	5,772419E+22	5,772556E+22	1,509175E+23	1,154498E+23	2,663672E+23
-2519	7,545732E+22	7,545788E+22	5,772419E+22	5,772324E+22	1,509152E+23	1,154474E+23	2,663626E+23
-2518	7,545549E+22	7,545768E+22	5,772509E+22	5,772503E+22	1,509132E+23	1,154501E+23	2,663633E+23
-2517	7,545945E+22	7,545746E+22	5,772410E+22	5,772509E+22	1,509169E+23	1,154492E+23	2,663661E+23
-2516	7,545674E+22	7,545724E+22	5,772518E+22	5,772348E+22	1,509140E+23	1,154487E+23	2,663626E+23
-2515	7,545778E+22	7,545755E+22	5,772550E+22	5,772630E+22	1,509153E+23	1,154518E+23	2,663671E+23
-2514	7,545980E+22	7,545785E+22	5,772499E+22	5,772578E+22	1,509176E+23	1,154508E+23	2,663684E+23
-2513	7,545536E+22	7,545824E+22	5,772707E+22	5,772599E+22	1,509136E+23	1,154531E+23	2,663667E+23
-2512	7,545797E+22	7,545877E+22	5,772700E+22	5,772833E+22	1,509167E+23	1,154553E+23	2,663721E+23
-2511	7,545827E+22	7,545764E+22	5,772763E+22	5,772637E+22	1,509159E+23	1,154540E+23	2,663699E+23

1	14	15	16	17	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							
-2510	7,545560E+22	7,545699E+22	5,772914E+22	5,772784E+22	1,509126E+23	1,154570E+23	2,663696E+23
-2509	7,545929E+22	7,545743E+22	5,772799E+22	5,772902E+22	1,509167E+23	1,154570E+23	2,663737E+23
-2508	7,545670E+22	7,545731E+22	5,772816E+22	5,772711E+22	1,509140E+23	1,154553E+23	2,663693E+23
-2507	7,545627E+22	7,545756E+22	5,772785E+22	5,772894E+22	1,509138E+23	1,154568E+23	2,663706E+23
-2506	7,545964E+22	7,545774E+22	5,772635E+22	5,772768E+22	1,509174E+23	1,154540E+23	2,663714E+23
-2505	7,545586E+22	7,545738E+22	5,772749E+22	5,772562E+22	1,509132E+23	1,154531E+23	2,663664E+23
-2504	7,545803E+22	7,545813E+22	5,772665E+22	5,772700E+22	1,509162E+23	1,154536E+23	2,663698E+23
-2503	7,545911E+22	7,545788E+22	5,772577E+22	5,772484E+22	1,509170E+23	1,154506E+23	2,663676E+23
-2502	7,545506E+22	7,545753E+22	5,772646E+22	5,772543E+22	1,509126E+23	1,154519E+23	2,663645E+23
-2501	7,545824E+22	7,545815E+22	5,772527E+22	5,772672E+22	1,509164E+23	1,154520E+23	2,663684E+23
-2500	7,545685E+22	7,545742E+22	5,772549E+22	5,772430E+22	1,509143E+23	1,154498E+23	2,663641E+23
-2499	7,545586E+22	7,545693E+22	5,772591E+22	5,772582E+22	1,509128E+23	1,154517E+23	2,663645E+23
-2498	7,546008E+22	7,545725E+22	5,772492E+22	5,772608E+22	1,509173E+23	1,154510E+23	2,663683E+23
-2497	7,545639E+22	7,545699E+22	5,772636E+22	5,772498E+22	1,509134E+23	1,154513E+23	2,663647E+23
-2496	7,545703E+22	7,545820E+22	5,772648E+22	5,772757E+22	1,509152E+23	1,154541E+23	2,663693E+23
-2495	7,545910E+22	7,545824E+22	5,772640E+22	5,772687E+22	1,509173E+23	1,154533E+23	2,663706E+23
-2494	7,545501E+22	7,545725E+22	5,772846E+22	5,772719E+22	1,509123E+23	1,154556E+23	2,663679E+23
-2493	7,545806E+22	7,545773E+22	5,772865E+22	5,772914E+22	1,509158E+23	1,154578E+23	2,663736E+23
-2492	7,545794E+22	7,545716E+22	5,772910E+22	5,772763E+22	1,509151E+23	1,154567E+23	2,663718E+23
-2491	7,545543E+22	7,545676E+22	5,772964E+22	5,772923E+22	1,509122E+23	1,154589E+23	2,663711E+23
-2490	7,545918E+22	7,545770E+22	5,772833E+22	5,773036E+22	1,509169E+23	1,154587E+23	2,663756E+23
-2489	7,545620E+22	7,545708E+22	5,772907E+22	5,772828E+22	1,509133E+23	1,154574E+23	2,663706E+23
-2488	7,545603E+22	7,545779E+22	5,772874E+22	5,772925E+22	1,509138E+23	1,154580E+23	2,663718E+23
-2487	7,545972E+22	7,545783E+22	5,772770E+22	5,772793E+22	1,509175E+23	1,154556E+23	2,663732E+23
-2486	7,545586E+22	7,545657E+22	5,772854E+22	5,772655E+22	1,509124E+23	1,154551E+23	2,663675E+23
-2485	7,545751E+22	7,545771E+22	5,772769E+22	5,772797E+22	1,509152E+23	1,154557E+23	2,663709E+23
-2484	7,545804E+22	7,545791E+22	5,772674E+22	5,772628E+22	1,509160E+23	1,154530E+23	2,663690E+23
-2483	7,545469E+22	7,545696E+22	5,772688E+22	5,772654E+22	1,509116E+23	1,154534E+23	2,663651E+23
-2482	7,545850E+22	7,545764E+22	5,772592E+22	5,772751E+22	1,509161E+23	1,154534E+23	2,663696E+23
-2481	7,545713E+22	7,545655E+22	5,772668E+22	5,772524E+22	1,509137E+23	1,154519E+23	2,663656E+23
-2480	7,545591E+22	7,545706E+22	5,772677E+22	5,772648E+22	1,509130E+23	1,154532E+23	2,663662E+23
-2479	7,545982E+22	7,545797E+22	5,772606E+22	5,772715E+22	1,509178E+23	1,154532E+23	2,663710E+23
-2478	7,545591E+22	7,545680E+22	5,772738E+22	5,772653E+22	1,509127E+23	1,154539E+23	2,663666E+23
-2477	7,545637E+22	7,545790E+22	5,772806E+22	5,772861E+22	1,509143E+23	1,154567E+23	2,663709E+23
-2476	7,545844E+22	7,545801E+22	5,772823E+22	5,772806E+22	1,509164E+23	1,154563E+23	2,663727E+23
-2475	7,545510E+22	7,545629E+22	5,772967E+22	5,772834E+22	1,509114E+23	1,154580E+23	2,663694E+23
-2474	7,545819E+22	7,545724E+22	5,772961E+22	5,773052E+22	1,509154E+23	1,154601E+23	2,663756E+23
-2473	7,545739E+22	7,545666E+22	5,773007E+22	5,772944E+22	1,509141E+23	1,154595E+23	2,663736E+23
-2472	7,545477E+22	7,545709E+22	5,773011E+22	5,773041E+22	1,509119E+23	1,154605E+23	2,663724E+23
-2471	7,545897E+22	7,545796E+22	5,772925E+22	5,773110E+22	1,509169E+23	1,154603E+23	2,663773E+23
-2470	7,545640E+22	7,545625E+22	5,773000E+22	5,772888E+22	1,509126E+23	1,154589E+23	2,663715E+23
-2469	7,545634E+22	7,545718E+22	5,773009E+22	5,772939E+22	1,509135E+23	1,154595E+23	2,663730E+23
-2468	7,545936E+22	7,545791E+22	5,772899E+22	5,772865E+22	1,509173E+23	1,154576E+23	2,663749E+23
-2467	7,545546E+22	7,545650E+22	5,772911E+22	5,772772E+22	1,509120E+23	1,154568E+23	2,663688E+23
-2466	7,545701E+22	7,545783E+22	5,772827E+22	5,772924E+22	1,509148E+23	1,154575E+23	2,663723E+23
-2465	7,545725E+22	7,545731E+22	5,772782E+22	5,772762E+22	1,509146E+23	1,154554E+23	2,663700E+23
-2464	7,545447E+22	7,545676E+22	5,772773E+22	5,772717E+22	1,509112E+23	1,154549E+23	2,663661E+23
-2463	7,545889E+22	7,545729E+22	5,772706E+22	5,772813E+22	1,509162E+23	1,154552E+23	2,663714E+23
-2462	7,545727E+22	7,545574E+22	5,772751E+22	5,772647E+22	1,509130E+23	1,154540E+23	2,663670E+23

1	14	15	16	17	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							
-2461	7,545561E+22	7,545701E+22	5,772779E+22	5,772755E+22	1,509126E+23	1,154553E+23	2,663680E+23
-2460	7,545887E+22	7,545836E+22	5,772729E+22	5,772850E+22	1,509172E+23	1,154558E+23	2,663730E+23
-2459	7,545555E+22	7,545646E+22	5,772839E+22	5,772771E+22	1,509120E+23	1,154561E+23	2,663681E+23
-2458	7,545638E+22	7,545743E+22	5,772935E+22	5,772955E+22	1,509138E+23	1,154589E+23	2,663727E+23
-2457	7,545821E+22	7,545710E+22	5,772989E+22	5,772943E+22	1,509153E+23	1,154593E+23	2,663746E+23
-2456	7,545482E+22	7,545627E+22	5,773068E+22	5,772951E+22	1,509111E+23	1,154602E+23	2,663713E+23
-2455	7,545793E+22	7,545751E+22	5,773063E+22	5,773190E+22	1,509154E+23	1,154625E+23	2,663780E+23
-2454	7,545711E+22	7,545623E+22	5,773086E+22	5,773098E+22	1,509133E+23	1,154618E+23	2,663752E+23
-2453	7,545466E+22	7,545682E+22	5,773131E+22	5,773102E+22	1,509115E+23	1,154623E+23	2,663738E+23
-2452	7,545880E+22	7,545794E+22	5,773074E+22	5,773164E+22	1,509167E+23	1,154624E+23	2,663791E+23
-2451	7,545674E+22	7,545569E+22	5,773097E+22	5,772949E+22	1,509124E+23	1,154605E+23	2,663729E+23
-2450	7,545618E+22	7,545709E+22	5,773094E+22	5,773030E+22	1,509133E+23	1,154612E+23	2,663745E+23
-2449	7,545834E+22	7,545772E+22	5,772993E+22	5,773026E+22	1,509161E+23	1,154602E+23	2,663763E+23
-2448	7,545445E+22	7,545656E+22	5,772955E+22	5,772878E+22	1,509110E+23	1,154583E+23	2,663693E+23
-2447	7,545665E+22	7,545754E+22	5,772914E+22	5,773006E+22	1,509142E+23	1,154592E+23	2,663734E+23
-2446	7,545749E+22	7,545604E+22	5,772861E+22	5,772846E+22	1,509135E+23	1,154571E+23	2,663706E+23
-2445	7,545488E+22	7,545601E+22	5,772874E+22	5,772754E+22	1,509109E+23	1,154563E+23	2,663672E+23
-2444	7,545873E+22	7,545756E+22	5,772812E+22	5,772903E+22	1,509163E+23	1,154572E+23	2,663734E+23
-2443	7,545714E+22	7,545589E+22	5,772808E+22	5,772768E+22	1,509130E+23	1,154558E+23	2,663688E+23
-2442	7,545518E+22	7,545734E+22	5,772879E+22	5,772870E+22	1,509125E+23	1,154575E+23	2,663700E+23
-2441	7,545802E+22	7,545806E+22	5,772899E+22	5,772985E+22	1,509161E+23	1,154588E+23	2,663749E+23
-2440	7,545510E+22	7,545622E+22	5,772991E+22	5,772860E+22	1,509113E+23	1,154585E+23	2,663698E+23
-2439	7,545642E+22	7,545693E+22	5,773104E+22	5,773073E+22	1,509134E+23	1,154618E+23	2,663751E+23
-2438	7,545800E+22	7,545608E+22	5,773101E+22	5,773125E+22	1,509141E+23	1,154623E+23	2,663763E+23
-2437	7,545450E+22	7,545594E+22	5,773163E+22	5,773094E+22	1,509104E+23	1,154626E+23	2,663730E+23
-2436	7,545740E+22	7,545764E+22	5,773163E+22	5,773319E+22	1,509150E+23	1,154648E+23	2,663799E+23
-2435	7,545730E+22	7,545586E+22	5,773156E+22	5,773182E+22	1,509132E+23	1,154634E+23	2,663765E+23
-2434	7,545512E+22	7,545664E+22	5,773236E+22	5,773141E+22	1,509118E+23	1,154638E+23	2,663755E+23
-2433	7,545850E+22	7,545756E+22	5,773217E+22	5,773246E+22	1,509161E+23	1,154646E+23	2,663807E+23
-2432	7,545607E+22	7,545614E+22	5,773184E+22	5,773033E+22	1,509122E+23	1,154622E+23	2,663744E+23
-2431	7,545548E+22	7,545735E+22	5,773183E+22	5,773149E+22	1,509128E+23	1,154633E+23	2,663762E+23
-2430	7,545747E+22	7,545697E+22	5,773064E+22	5,773173E+22	1,509144E+23	1,154624E+23	2,663768E+23
-2429	7,545421E+22	7,545587E+22	5,773051E+22	5,772944E+22	1,509101E+23	1,154599E+23	2,663700E+23
-2428	7,545671E+22	7,545699E+22	5,773026E+22	5,773063E+22	1,509137E+23	1,154609E+23	2,663746E+23
-2427	7,545812E+22	7,545530E+22	5,772921E+22	5,772920E+22	1,509134E+23	1,154584E+23	2,663718E+23
-2426	7,545507E+22	7,545609E+22	5,772936E+22	5,772840E+22	1,509112E+23	1,154578E+23	2,663689E+23
-2425	7,545784E+22	7,545776E+22	5,772915E+22	5,773046E+22	1,509156E+23	1,154596E+23	2,663752E+23
-2424	7,545625E+22	7,545640E+22	5,772901E+22	5,772868E+22	1,509126E+23	1,154577E+23	2,663703E+23
-2423	7,545480E+22	7,545721E+22	5,773034E+22	5,772964E+22	1,509120E+23	1,154600E+23	2,663720E+23
-2422	7,545783E+22	7,545687E+22	5,773054E+22	5,773113E+22	1,509147E+23	1,154617E+23	2,663764E+23
-2421	7,545517E+22	7,545540E+22	5,773144E+22	5,772964E+22	1,509106E+23	1,154611E+23	2,663717E+23
-2420	7,545608E+22	7,545687E+22	5,773235E+22	5,773228E+22	1,509130E+23	1,154646E+23	2,663776E+23
-2419	7,545795E+22	7,545589E+22	5,773162E+22	5,773292E+22	1,509138E+23	1,154645E+23	2,663784E+23
-2418	7,545438E+22	7,545609E+22	5,773246E+22	5,773208E+22	1,509105E+23	1,154645E+23	2,663750E+23
-2417	7,545698E+22	7,545753E+22	5,773305E+22	5,773427E+22	1,509145E+23	1,154673E+23	2,663818E+23
-2416	7,545716E+22	7,545590E+22	5,773274E+22	5,773223E+22	1,509131E+23	1,154650E+23	2,663780E+23
-2415	7,545505E+22	7,545651E+22	5,773377E+22	5,773219E+22	1,509116E+23	1,154660E+23	2,663775E+23
-2414	7,545776E+22	7,545693E+22	5,773313E+22	5,773393E+22	1,509147E+23	1,154671E+23	2,663817E+23
-2413	7,545521E+22	7,545577E+22	5,773266E+22	5,773151E+22	1,509110E+23	1,154642E+23	2,663752E+23

1	14	15	16	17	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	7,545470E+22	7,545707E+22	5,773271E+22	5,773259E+22	1,509118E+23	1,154653E+23	2,663771E+23
-2411	7,545770E+22	7,545597E+22	5,773108E+22	5,773247E+22	1,509137E+23	1,154635E+23	2,663772E+23
-2410	7,545490E+22	7,545525E+22	5,773114E+22	5,772973E+22	1,509102E+23	1,154609E+23	2,663710E+23
-2409	7,545680E+22	7,545671E+22	5,773121E+22	5,773140E+22	1,509135E+23	1,154626E+23	2,663761E+23
-2408	7,545777E+22	7,545602E+22	5,772982E+22	5,772988E+22	1,509138E+23	1,154597E+23	2,663735E+23
-2407	7,545462E+22	7,545678E+22	5,773047E+22	5,772950E+22	1,509114E+23	1,154600E+23	2,663714E+23
-2406	7,545688E+22	7,545743E+22	5,773049E+22	5,773183E+22	1,509143E+23	1,154623E+23	2,663766E+23
-2405	7,545576E+22	7,545594E+22	5,773072E+22	5,772962E+22	1,509117E+23	1,154603E+23	2,663720E+23
-2404	7,545456E+22	7,545656E+22	5,773216E+22	5,773081E+22	1,509111E+23	1,154630E+23	2,663741E+23
-2403	7,545799E+22	7,545586E+22	5,773159E+22	5,773271E+22	1,509139E+23	1,154643E+23	2,663782E+23
-2402	7,545522E+22	7,545515E+22	5,773222E+22	5,773124E+22	1,509104E+23	1,154635E+23	2,663738E+23
-2401	7,545537E+22	7,545676E+22	5,773322E+22	5,773405E+22	1,509121E+23	1,154673E+23	2,663794E+23
-2400	7,545745E+22	7,545624E+22	5,773237E+22	5,773384E+22	1,509137E+23	1,154662E+23	2,663799E+23
-2399	7,545460E+22	7,545607E+22	5,773377E+22	5,773269E+22	1,509107E+23	1,154665E+23	2,663771E+23
-2398	7,545682E+22	7,545673E+22	5,773446E+22	5,773504E+22	1,509136E+23	1,154695E+23	2,663831E+23
-2397	7,545700E+22	7,545567E+22	5,773413E+22	5,773293E+22	1,509127E+23	1,154671E+23	2,663797E+23
-2396	7,545434E+22	7,545660E+22	5,773500E+22	5,773341E+22	1,509109E+23	1,154684E+23	2,663793E+23
-2395	7,545721E+22	7,545651E+22	5,773366E+22	5,773536E+22	1,509137E+23	1,154690E+23	2,663827E+23
-2394	7,545499E+22	7,545540E+22	5,773332E+22	5,773244E+22	1,509104E+23	1,154658E+23	2,663761E+23
-2393	7,545440E+22	7,545644E+22	5,773370E+22	5,773348E+22	1,509108E+23	1,154672E+23	2,663780E+23
-2392	7,545790E+22	7,545576E+22	5,773181E+22	5,773279E+22	1,509137E+23	1,154646E+23	2,663783E+23
-2391	7,545528E+22	7,545527E+22	5,773205E+22	5,773042E+22	1,509105E+23	1,154625E+23	2,663730E+23
-2390	7,545617E+22	7,545658E+22	5,773197E+22	5,773268E+22	1,509128E+23	1,154647E+23	2,663774E+23
-2389	7,545702E+22	7,545624E+22	5,773077E+22	5,773090E+22	1,509133E+23	1,154617E+23	2,663749E+23
-2388	7,545383E+22	7,545676E+22	5,773189E+22	5,773063E+22	1,509106E+23	1,154625E+23	2,663731E+23
-2387	7,545678E+22	7,545652E+22	5,773163E+22	5,773292E+22	1,509133E+23	1,154646E+23	2,663778E+23
-2386	7,545601E+22	7,545510E+22	5,773198E+22	5,773057E+22	1,509111E+23	1,154625E+23	2,663737E+23
-2385	7,545430E+22	7,545604E+22	5,773343E+22	5,773240E+22	1,509103E+23	1,154658E+23	2,663762E+23
-2384	7,545762E+22	7,545607E+22	5,773225E+22	5,773401E+22	1,509137E+23	1,154663E+23	2,663799E+23
-2383	7,545505E+22	7,545547E+22	5,773315E+22	5,773262E+22	1,509105E+23	1,154658E+23	2,663763E+23
-2382	7,545487E+22	7,545645E+22	5,773439E+22	5,773531E+22	1,509113E+23	1,154697E+23	2,663810E+23
-2381	7,545736E+22	7,545600E+22	5,773394E+22	5,773440E+22	1,509134E+23	1,154683E+23	2,663817E+23
-2380	7,545456E+22	7,545578E+22	5,773563E+22	5,773349E+22	1,509103E+23	1,154691E+23	2,663795E+23
-2379	7,545668E+22	7,545605E+22	5,773557E+22	5,773626E+22	1,509127E+23	1,154718E+23	2,663846E+23
-2378	7,545652E+22	7,545546E+22	5,773497E+22	5,773430E+22	1,509120E+23	1,154693E+23	2,663812E+23
-2377	7,545334E+22	7,545629E+22	5,773581E+22	5,773504E+22	1,509096E+23	1,154708E+23	2,663805E+23
-2376	7,545668E+22	7,545632E+22	5,773417E+22	5,773611E+22	1,509130E+23	1,154703E+23	2,663833E+23
-2375	7,545546E+22	7,545503E+22	5,773413E+22	5,773299E+22	1,509105E+23	1,154671E+23	2,663776E+23
-2374	7,545457E+22	7,545568E+22	5,773452E+22	5,773413E+22	1,509103E+23	1,154686E+23	2,663789E+23
-2373	7,545795E+22	7,545588E+22	5,773270E+22	5,773332E+22	1,509138E+23	1,154660E+23	2,663798E+23
-2372	7,545484E+22	7,545582E+22	5,773311E+22	5,773143E+22	1,509107E+23	1,154645E+23	2,663752E+23
-2371	7,545552E+22	7,545652E+22	5,773275E+22	5,773388E+22	1,509120E+23	1,154666E+23	2,663787E+23
-2370	7,545667E+22	7,545606E+22	5,773194E+22	5,773187E+22	1,509127E+23	1,154638E+23	2,663765E+23
-2369	7,545335E+22	7,545597E+22	5,773339E+22	5,773180E+22	1,509093E+23	1,154652E+23	2,663745E+23
-2368	7,545661E+22	7,545593E+22	5,773278E+22	5,773381E+22	1,509125E+23	1,154666E+23	2,663791E+23
-2367	7,545624E+22	7,545476E+22	5,773300E+22	5,773200E+22	1,509110E+23	1,154650E+23	2,663760E+23
-2366	7,545365E+22	7,545556E+22	5,773417E+22	5,773416E+22	1,509092E+23	1,154683E+23	2,663775E+23
-2365	7,545718E+22	7,545614E+22	5,773317E+22	5,773520E+22	1,509133E+23	1,154684E+23	2,663817E+23
-2364	7,545489E+22	7,545544E+22	5,773457E+22	5,773354E+22	1,509103E+23	1,154681E+23	2,663784E+23

1	14	15	16	17	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							
-2363	7,545508E+22	7,545579E+22	5,773563E+22	5,773606E+22	1,509109E+23	1,154717E+23	2,663826E+23
-2362	7,545767E+22	7,545562E+22	5,773537E+22	5,773511E+22	1,509133E+23	1,154705E+23	2,663838E+23
-2361	7,545396E+22	7,545564E+22	5,773705E+22	5,773496E+22	1,509096E+23	1,154720E+23	2,663816E+23
-2360	7,545577E+22	7,545635E+22	5,773639E+22	5,773754E+22	1,509121E+23	1,154739E+23	2,663861E+23
-2359	7,545607E+22	7,545552E+22	5,773584E+22	5,773573E+22	1,509116E+23	1,154716E+23	2,663832E+23
-2358	7,545274E+22	7,545559E+22	5,773669E+22	5,773627E+22	1,509083E+23	1,154730E+23	2,663813E+23
-2357	7,545684E+22	7,545578E+22	5,773517E+22	5,773656E+22	1,509126E+23	1,154717E+23	2,663843E+23
-2356	7,545581E+22	7,545470E+22	5,773531E+22	5,773358E+22	1,509105E+23	1,154689E+23	2,663794E+23
-2355	7,545472E+22	7,545533E+22	5,773507E+22	5,773505E+22	1,509100E+23	1,154701E+23	2,663802E+23
-2354	7,545758E+22	7,545600E+22	5,773330E+22	5,773422E+22	1,509136E+23	1,154675E+23	2,663811E+23
-2353	7,545387E+22	7,545582E+22	5,773409E+22	5,773274E+22	1,509097E+23	1,154668E+23	2,663765E+23
-2352	7,545486E+22	7,545627E+22	5,773365E+22	5,773446E+22	1,509111E+23	1,154681E+23	2,663792E+23
-2351	7,545681E+22	7,545546E+22	5,773315E+22	5,773269E+22	1,509123E+23	1,154658E+23	2,663781E+23
-2350	7,545319E+22	7,545497E+22	5,773453E+22	5,773302E+22	1,509082E+23	1,154675E+23	2,663757E+23
-2349	7,545649E+22	7,545567E+22	5,773378E+22	5,773492E+22	1,509122E+23	1,154687E+23	2,663809E+23
-2348	7,545597E+22	7,545500E+22	5,773411E+22	5,773344E+22	1,509110E+23	1,154676E+23	2,663785E+23
-2347	7,545345E+22	7,545537E+22	5,773498E+22	5,773550E+22	1,509088E+23	1,154705E+23	2,663793E+23
-2346	7,545717E+22	7,545603E+22	5,773451E+22	5,773605E+22	1,509132E+23	1,154706E+23	2,663838E+23
-2345	7,545468E+22	7,545515E+22	5,773634E+22	5,773466E+22	1,509098E+23	1,154710E+23	2,663808E+23
-2344	7,545479E+22	7,545562E+22	5,773707E+22	5,773690E+22	1,509104E+23	1,154740E+23	2,663844E+23
-2343	7,545744E+22	7,545565E+22	5,773659E+22	5,773671E+22	1,509131E+23	1,154733E+23	2,663864E+23
-2342	7,545287E+22	7,545517E+22	5,773795E+22	5,773685E+22	1,509080E+23	1,154748E+23	2,663829E+23
-2341	7,545505E+22	7,545607E+22	5,773728E+22	5,773873E+22	1,509111E+23	1,154760E+23	2,663871E+23
-2340	7,545607E+22	7,545506E+22	5,773697E+22	5,773658E+22	1,509111E+23	1,154736E+23	2,663847E+23
-2339	7,545322E+22	7,545463E+22	5,773735E+22	5,773680E+22	1,509078E+23	1,154742E+23	2,663820E+23
-2338	7,545746E+22	7,545542E+22	5,773599E+22	5,773694E+22	1,509129E+23	1,154729E+23	2,663858E+23
-2337	7,545553E+22	7,545486E+22	5,773613E+22	5,773452E+22	1,509104E+23	1,154706E+23	2,663810E+23
-2336	7,545392E+22	7,545585E+22	5,773566E+22	5,773570E+22	1,509098E+23	1,154714E+23	2,663811E+23
-2335	7,545712E+22	7,545632E+22	5,773422E+22	5,773522E+22	1,509134E+23	1,154694E+23	2,663829E+23
-2334	7,545302E+22	7,545510E+22	5,773532E+22	5,773384E+22	1,509081E+23	1,154692E+23	2,663773E+23
-2333	7,545462E+22	7,545558E+22	5,773505E+22	5,773517E+22	1,509102E+23	1,154702E+23	2,663804E+23
-2332	7,545689E+22	7,545480E+22	5,773459E+22	5,773385E+22	1,509117E+23	1,154684E+23	2,663801E+23
-2331	7,545312E+22	7,545432E+22	5,773510E+22	5,773456E+22	1,509074E+23	1,154697E+23	2,663771E+23
-2330	7,545634E+22	7,545556E+22	5,773443E+22	5,773628E+22	1,509119E+23	1,154707E+23	2,663826E+23
-2329	7,545544E+22	7,545503E+22	5,773515E+22	5,773486E+22	1,509105E+23	1,154700E+23	2,663805E+23
-2328	7,545326E+22	7,545537E+22	5,773615E+22	5,773608E+22	1,509086E+23	1,154722E+23	2,663809E+23
-2327	7,545750E+22	7,545591E+22	5,773604E+22	5,773690E+22	1,509134E+23	1,154729E+23	2,663863E+23
-2326	7,545423E+22	7,545467E+22	5,773794E+22	5,773606E+22	1,509089E+23	1,154740E+23	2,663829E+23
-2325	7,545412E+22	7,545567E+22	5,773843E+22	5,773824E+22	1,509098E+23	1,154767E+23	2,663865E+23
-2324	7,545673E+22	7,545569E+22	5,773795E+22	5,773835E+22	1,509124E+23	1,154763E+23	2,663887E+23
-2323	7,545255E+22	7,545452E+22	5,773873E+22	5,773830E+22	1,509071E+23	1,154770E+23	2,663841E+23
-2322	7,545526E+22	7,545526E+22	5,773827E+22	5,773939E+22	1,509105E+23	1,154777E+23	2,663882E+23
-2321	7,545625E+22	7,545449E+22	5,773811E+22	5,773735E+22	1,509107E+23	1,154755E+23	2,663862E+23
-2320	7,545343E+22	7,545445E+22	5,773804E+22	5,773714E+22	1,509079E+23	1,154752E+23	2,663831E+23
-2319	7,545733E+22	7,545577E+22	5,773659E+22	5,773789E+22	1,509131E+23	1,154745E+23	2,663876E+23
-2318	7,545442E+22	7,545490E+22	5,773685E+22	5,773582E+22	1,509093E+23	1,154727E+23	2,663820E+23
-2317	7,545302E+22	7,545580E+22	5,773664E+22	5,773641E+22	1,509088E+23	1,154730E+23	2,663819E+23
-2316	7,545677E+22	7,545587E+22	5,773564E+22	5,773598E+22	1,509126E+23	1,154716E+23	2,663843E+23
-2315	7,545319E+22	7,545395E+22	5,773625E+22	5,773475E+22	1,509071E+23	1,154710E+23	2,663781E+23

1	14	15	16	17	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							
-2314	7,545490E+22	7,545483E+22	5,773604E+22	5,773611E+22	1,509097E+23	1,154722E+23	2,663819E+23
-2313	7,545655E+22	7,545482E+22	5,773548E+22	5,773542E+22	1,509114E+23	1,154709E+23	2,663823E+23
-2312	7,545270E+22	7,545466E+22	5,773572E+22	5,773562E+22	1,509074E+23	1,154713E+23	2,663787E+23
-2311	7,545628E+22	7,545596E+22	5,773544E+22	5,773745E+22	1,509122E+23	1,154729E+23	2,663851E+23
-2310	7,545499E+22	7,545471E+22	5,773669E+22	5,773597E+22	1,509097E+23	1,154727E+23	2,663824E+23
-2309	7,545309E+22	7,545510E+22	5,773800E+22	5,773683E+22	1,509082E+23	1,154748E+23	2,663830E+23
-2308	7,545730E+22	7,545568E+22	5,773797E+22	5,773825E+22	1,509130E+23	1,154762E+23	2,663892E+23
-2307	7,545362E+22	7,545403E+22	5,773896E+22	5,773789E+22	1,509077E+23	1,154769E+23	2,663845E+23
-2306	7,545359E+22	7,545515E+22	5,773940E+22	5,773979E+22	1,509087E+23	1,154792E+23	2,663879E+23
-2305	7,545620E+22	7,545515E+22	5,773893E+22	5,773975E+22	1,509113E+23	1,154787E+23	2,663900E+23
-2304	7,545266E+22	7,545395E+22	5,773943E+22	5,773870E+22	1,509066E+23	1,154781E+23	2,663847E+23
-2303	7,545599E+22	7,545505E+22	5,773905E+22	5,773995E+22	1,509110E+23	1,154790E+23	2,663900E+23
-2302	7,545600E+22	7,545433E+22	5,773900E+22	5,773822E+22	1,509103E+23	1,154772E+23	2,663875E+23
-2301	7,545283E+22	7,545502E+22	5,773893E+22	5,773785E+22	1,509079E+23	1,154768E+23	2,663846E+23
-2300	7,545654E+22	7,545620E+22	5,773780E+22	5,773888E+22	1,509127E+23	1,154767E+23	2,663894E+23
-2299	7,545371E+22	7,545441E+22	5,773776E+22	5,773692E+22	1,509081E+23	1,154747E+23	2,663828E+23
-2298	7,545286E+22	7,545491E+22	5,773788E+22	5,773714E+22	1,509078E+23	1,154750E+23	2,663828E+23
-2297	7,545660E+22	7,545505E+22	5,773691E+22	5,773711E+22	1,509116E+23	1,154740E+23	2,663857E+23
-2296	7,545325E+22	7,545347E+22	5,773689E+22	5,773570E+22	1,509067E+23	1,154726E+23	2,663793E+23
-2295	7,545495E+22	7,545494E+22	5,773646E+22	5,773754E+22	1,509099E+23	1,154740E+23	2,663839E+23
-2294	7,545580E+22	7,545478E+22	5,773624E+22	5,773693E+22	1,509106E+23	1,154732E+23	2,663837E+23
-2293	7,545235E+22	7,545480E+22	5,773691E+22	5,773631E+22	1,509071E+23	1,154732E+23	2,663804E+23
-2292	7,545623E+22	7,545581E+22	5,773729E+22	5,773811E+22	1,509120E+23	1,154754E+23	2,663874E+23
-2291	7,545509E+22	7,545401E+22	5,773818E+22	5,773707E+22	1,509091E+23	1,154752E+23	2,663844E+23
-2290	7,545299E+22	7,545450E+22	5,773952E+22	5,773803E+22	1,509075E+23	1,154776E+23	2,663850E+23
-2289	7,545638E+22	7,545563E+22	5,773928E+22	5,774011E+22	1,509120E+23	1,154794E+23	2,663914E+23
-2288	7,545304E+22	7,545388E+22	5,773977E+22	5,773927E+22	1,509069E+23	1,154790E+23	2,663860E+23
-2287	7,545351E+22	7,545493E+22	5,774023E+22	5,774107E+22	1,509084E+23	1,154813E+23	2,663898E+23
-2286	7,545596E+22	7,545454E+22	5,774010E+22	5,774081E+22	1,509105E+23	1,154809E+23	2,663914E+23
-2285	7,545287E+22	7,545372E+22	5,774060E+22	5,773916E+22	1,509066E+23	1,154798E+23	2,663864E+23
-2284	7,545595E+22	7,545520E+22	5,774030E+22	5,774079E+22	1,509112E+23	1,154811E+23	2,663922E+23
-2283	7,545541E+22	7,545428E+22	5,773958E+22	5,773949E+22	1,509097E+23	1,154791E+23	2,663888E+23
-2282	7,545217E+22	7,545477E+22	5,773984E+22	5,773882E+22	1,509069E+23	1,154787E+23	2,663856E+23
-2281	7,545570E+22	7,545586E+22	5,773895E+22	5,773989E+22	1,509116E+23	1,154788E+23	2,663904E+23
-2280	7,545367E+22	7,545363E+22	5,773863E+22	5,773738E+22	1,509073E+23	1,154760E+23	2,663833E+23
-2279	7,545336E+22	7,545437E+22	5,773864E+22	5,773803E+22	1,509077E+23	1,154767E+23	2,663844E+23
-2278	7,545628E+22	7,545464E+22	5,773771E+22	5,773841E+22	1,509109E+23	1,154761E+23	2,663870E+23
-2277	7,545288E+22	7,545386E+22	5,773761E+22	5,773668E+22	1,509067E+23	1,154743E+23	2,663810E+23
-2276	7,545467E+22	7,545540E+22	5,773762E+22	5,773861E+22	1,509101E+23	1,154762E+23	2,663863E+23
-2275	7,545547E+22	7,545445E+22	5,773731E+22	5,773794E+22	1,509099E+23	1,154752E+23	2,663852E+23
-2274	7,545243E+22	7,545415E+22	5,773865E+22	5,773703E+22	1,509066E+23	1,154757E+23	2,663823E+23
-2273	7,545588E+22	7,545530E+22	5,773910E+22	5,773932E+22	1,509112E+23	1,154784E+23	2,663896E+23
-2272	7,545464E+22	7,545360E+22	5,773932E+22	5,773845E+22	1,509082E+23	1,154778E+23	2,663860E+23
-2271	7,545252E+22	7,545448E+22	5,774028E+22	5,773998E+22	1,509070E+23	1,154803E+23	2,663873E+23
-2270	7,545533E+22	7,545516E+22	5,774022E+22	5,774196E+22	1,509105E+23	1,154822E+23	2,663927E+23
-2269	7,545279E+22	7,545358E+22	5,774081E+22	5,774014E+22	1,509064E+23	1,154810E+23	2,663873E+23
-2268	7,545392E+22	7,545458E+22	5,774160E+22	5,774171E+22	1,509085E+23	1,154833E+23	2,663918E+23
-2267	7,545625E+22	7,545398E+22	5,774106E+22	5,774163E+22	1,509102E+23	1,154827E+23	2,663929E+23
-2266	7,545296E+22	7,545361E+22	5,774172E+22	5,773994E+22	1,509066E+23	1,154817E+23	2,663882E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,545507E+22	7,545560E+22	5,774141E+22	5,774197E+22	1,509107E+23	1,154834E+23	2,663940E+23
-2264	7,545473E+22	7,545435E+22	5,774036E+22	5,774038E+22	1,509091E+23	1,154807E+23	2,663898E+23
-2263	7,545194E+22	7,545450E+22	5,774070E+22	5,773978E+22	1,509064E+23	1,154805E+23	2,663869E+23
-2262	7,545517E+22	7,545498E+22	5,774018E+22	5,774090E+22	1,509102E+23	1,154811E+23	2,663912E+23
-2261	7,545377E+22	7,545309E+22	5,773967E+22	5,773809E+22	1,509069E+23	1,154778E+23	2,663846E+23
-2260	7,545332E+22	7,545424E+22	5,773955E+22	5,773915E+22	1,509076E+23	1,154787E+23	2,663863E+23
-2259	7,545586E+22	7,545444E+22	5,773810E+22	5,773984E+22	1,509103E+23	1,154779E+23	2,663882E+23
-2258	7,545273E+22	7,545354E+22	5,773844E+22	5,773754E+22	1,509063E+23	1,154760E+23	2,663823E+23
-2257	7,545417E+22	7,545528E+22	5,773894E+22	5,773937E+22	1,509094E+23	1,154783E+23	2,663878E+23
-2256	7,545559E+22	7,545406E+22	5,773851E+22	5,773849E+22	1,509097E+23	1,154770E+23	2,663867E+23
-2255	7,545260E+22	7,545389E+22	5,773987E+22	5,773824E+22	1,509065E+23	1,154781E+23	2,663846E+23
-2254	7,545489E+22	7,545511E+22	5,774047E+22	5,774112E+22	1,509100E+23	1,154816E+23	2,663916E+23
-2253	7,545386E+22	7,545375E+22	5,774047E+22	5,774000E+22	1,509076E+23	1,154805E+23	2,663881E+23
-2252	7,545209E+22	7,545443E+22	5,774160E+22	5,774148E+22	1,509065E+23	1,154831E+23	2,663896E+23
-2251	7,545517E+22	7,545442E+22	5,774127E+22	5,774321E+22	1,509096E+23	1,154845E+23	2,663941E+23
-2250	7,545336E+22	7,545273E+22	5,774223E+22	5,774081E+22	1,509061E+23	1,154830E+23	2,663891E+23
-2249	7,545398E+22	7,545439E+22	5,774301E+22	5,774262E+22	1,509084E+23	1,154856E+23	2,663940E+23
-2248	7,545607E+22	7,545405E+22	5,774184E+22	5,774259E+22	1,509101E+23	1,154844E+23	2,663945E+23
-2247	7,545252E+22	7,545397E+22	5,774234E+22	5,774133E+22	1,509065E+23	1,154837E+23	2,663902E+23
-2246	7,545382E+22	7,545537E+22	5,774245E+22	5,774322E+22	1,509092E+23	1,154857E+23	2,663949E+23
-2245	7,545422E+22	7,545398E+22	5,774148E+22	5,774096E+22	1,509082E+23	1,154824E+23	2,663906E+23
-2244	7,545219E+22	7,545390E+22	5,774194E+22	5,774047E+22	1,509061E+23	1,154824E+23	2,663885E+23
-2243	7,545523E+22	7,545404E+22	5,774082E+22	5,774188E+22	1,509093E+23	1,154827E+23	2,663920E+23
-2242	7,545388E+22	7,545270E+22	5,774037E+22	5,773905E+22	1,509066E+23	1,154794E+23	2,663860E+23
-2241	7,545281E+22	7,545455E+22	5,774026E+22	5,774027E+22	1,509074E+23	1,154805E+23	2,663879E+23
-2240	7,545552E+22	7,545451E+22	5,773872E+22	5,774059E+22	1,509100E+23	1,154793E+23	2,663893E+23
-2239	7,545279E+22	7,545359E+22	5,773942E+22	5,773842E+22	1,509064E+23	1,154778E+23	2,663842E+23
-2238	7,545359E+22	7,545473E+22	5,774059E+22	5,774036E+22	1,509083E+23	1,154809E+23	2,663893E+23
-2237	7,545527E+22	7,545382E+22	5,774004E+22	5,773956E+22	1,509091E+23	1,154796E+23	2,663887E+23
-2236	7,545216E+22	7,545377E+22	5,774125E+22	5,773994E+22	1,509059E+23	1,154812E+23	2,663871E+23
-2235	7,545403E+22	7,545452E+22	5,774131E+22	5,774305E+22	1,509086E+23	1,154844E+23	2,663929E+23
-2234	7,545374E+22	7,545296E+22	5,774163E+22	5,774131E+22	1,509067E+23	1,154829E+23	2,663896E+23
-2233	7,545207E+22	7,545395E+22	5,774292E+22	5,774242E+22	1,509060E+23	1,154853E+23	2,663914E+23
-2232	7,545577E+22	7,545390E+22	5,774231E+22	5,774381E+22	1,509097E+23	1,154861E+23	2,663958E+23
-2231	7,545390E+22	7,545285E+22	5,774314E+22	5,774179E+22	1,509068E+23	1,154849E+23	2,663917E+23
-2230	7,545310E+22	7,545470E+22	5,774424E+22	5,774393E+22	1,509078E+23	1,154882E+23	2,663960E+23
-2229	7,545524E+22	7,545461E+22	5,774297E+22	5,774368E+22	1,509099E+23	1,154866E+23	2,663965E+23
-2228	7,545185E+22	7,545399E+22	5,774370E+22	5,774244E+22	1,509058E+23	1,154861E+23	2,663920E+23
-2227	7,545321E+22	7,545446E+22	5,774354E+22	5,774428E+22	1,509077E+23	1,154878E+23	2,663955E+23
-2226	7,545455E+22	7,545269E+22	5,774266E+22	5,774166E+22	1,509072E+23	1,154843E+23	2,663916E+23
-2225	7,545208E+22	7,545334E+22	5,774281E+22	5,774145E+22	1,509054E+23	1,154843E+23	2,663897E+23
-2224	7,545517E+22	7,545387E+22	5,774097E+22	5,774293E+22	1,509090E+23	1,154839E+23	2,663929E+23
-2223	7,545379E+22	7,545297E+22	5,774047E+22	5,774020E+22	1,509068E+23	1,154807E+23	2,663874E+23
-2222	7,545200E+22	7,545452E+22	5,774120E+22	5,774112E+22	1,509065E+23	1,154823E+23	2,663888E+23
-2221	7,545534E+22	7,545447E+22	5,773999E+22	5,774088E+22	1,509098E+23	1,154809E+23	2,663907E+23
-2220	7,545293E+22	7,545335E+22	5,774109E+22	5,773918E+22	1,509063E+23	1,154803E+23	2,663865E+23
-2219	7,545308E+22	7,545412E+22	5,774188E+22	5,774174E+22	1,509072E+23	1,154836E+23	2,663908E+23
-2218	7,545491E+22	7,545334E+22	5,774136E+22	5,774110E+22	1,509083E+23	1,154825E+23	2,663907E+23
-2217	7,545145E+22	7,545371E+22	5,774247E+22	5,774163E+22	1,509052E+23	1,154841E+23	2,663893E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2216	7,545390E+22	7,545404E+22	5,774220E+22	5,774430E+22	1,509079E+23	1,154865E+23	2,663944E+23
-2215	7,545422E+22	7,545267E+22	5,774263E+22	5,774243E+22	1,509069E+23	1,154851E+23	2,663920E+23
-2214	7,545201E+22	7,545352E+22	5,774446E+22	5,774345E+22	1,509055E+23	1,154879E+23	2,663934E+23
-2213	7,545560E+22	7,545408E+22	5,774366E+22	5,774474E+22	1,509097E+23	1,154884E+23	2,663981E+23
-2212	7,545346E+22	7,545335E+22	5,774442E+22	5,774327E+22	1,509068E+23	1,154877E+23	2,663945E+23
-2211	7,545193E+22	7,545439E+22	5,774513E+22	5,774541E+22	1,509063E+23	1,154905E+23	2,663969E+23
-2210	7,545474E+22	7,545381E+22	5,774419E+22	5,774463E+22	1,509085E+23	1,154888E+23	2,663974E+23
-2209	7,545162E+22	7,545323E+22	5,774491E+22	5,774321E+22	1,509048E+23	1,154881E+23	2,663930E+23
-2208	7,545353E+22	7,545342E+22	5,774418E+22	5,774490E+22	1,509070E+23	1,154891E+23	2,663960E+23
-2207	7,545497E+22	7,545252E+22	5,774299E+22	5,774266E+22	1,509075E+23	1,154856E+23	2,663931E+23
-2206	7,545148E+22	7,545348E+22	5,774340E+22	5,774255E+22	1,509050E+23	1,154860E+23	2,663909E+23
-2205	7,545468E+22	7,545441E+22	5,774165E+22	5,774360E+22	1,509091E+23	1,154853E+23	2,663943E+23
-2204	7,545359E+22	7,545332E+22	5,774165E+22	5,774091E+22	1,509069E+23	1,154826E+23	2,663895E+23
-2203	7,545152E+22	7,545390E+22	5,774255E+22	5,774184E+22	1,509054E+23	1,154844E+23	2,663898E+23
-2202	7,545546E+22	7,545356E+22	5,774172E+22	5,774167E+22	1,509090E+23	1,154834E+23	2,663924E+23
-2201	7,545246E+22	7,545297E+22	5,774259E+22	5,774062E+22	1,509054E+23	1,154832E+23	2,663886E+23
-2200	7,545256E+22	7,545370E+22	5,774262E+22	5,774347E+22	1,509063E+23	1,154861E+23	2,663923E+23
-2199	7,545465E+22	7,545318E+22	5,774193E+22	5,774287E+22	1,509078E+23	1,154848E+23	2,663926E+23
-2198	7,545088E+22	7,545328E+22	5,774363E+22	5,774295E+22	1,509042E+23	1,154866E+23	2,663907E+23
-2197	7,545417E+22	7,545385E+22	5,774346E+22	5,774496E+22	1,509080E+23	1,154884E+23	2,663964E+23
-2196	7,545469E+22	7,545266E+22	5,774409E+22	5,774330E+22	1,509074E+23	1,154874E+23	2,663947E+23
-2195	7,545155E+22	7,545339E+22	5,774571E+22	5,774471E+22	1,509049E+23	1,154904E+23	2,663954E+23
-2194	7,545518E+22	7,545399E+22	5,774504E+22	5,774597E+22	1,509092E+23	1,154910E+23	2,664002E+23
-2193	7,545244E+22	7,545344E+22	5,774582E+22	5,774461E+22	1,509059E+23	1,154904E+23	2,663963E+23
-2192	7,545142E+22	7,545379E+22	5,774611E+22	5,774646E+22	1,509052E+23	1,154926E+23	2,663978E+23
-2191	7,545491E+22	7,545309E+22	5,774503E+22	5,774558E+22	1,509080E+23	1,154906E+23	2,663986E+23
-2190	7,545145E+22	7,545241E+22	5,774599E+22	5,774417E+22	1,509039E+23	1,154902E+23	2,663940E+23
-2189	7,545352E+22	7,545331E+22	5,774481E+22	5,774570E+22	1,509068E+23	1,154905E+23	2,663973E+23
-2188	7,545477E+22	7,545295E+22	5,774354E+22	5,774379E+22	1,509077E+23	1,154873E+23	2,663950E+23
-2187	7,545073E+22	7,545336E+22	5,774399E+22	5,774351E+22	1,509041E+23	1,154875E+23	2,663916E+23
-2186	7,545455E+22	7,545393E+22	5,774288E+22	5,774399E+22	1,509085E+23	1,154869E+23	2,663953E+23
-2185	7,545343E+22	7,545303E+22	5,774318E+22	5,774144E+22	1,509065E+23	1,154846E+23	2,663911E+23
-2184	7,545154E+22	7,545321E+22	5,774365E+22	5,774270E+22	1,509048E+23	1,154864E+23	2,663911E+23
-2183	7,545527E+22	7,545348E+22	5,774257E+22	5,774319E+22	1,509087E+23	1,154858E+23	2,663945E+23
-2182	7,545152E+22	7,545289E+22	5,774368E+22	5,774243E+22	1,509044E+23	1,154861E+23	2,663905E+23
-2181	7,545196E+22	7,545369E+22	5,774360E+22	5,774478E+22	1,509056E+23	1,154884E+23	2,663940E+23
-2180	7,545466E+22	7,545318E+22	5,774321E+22	5,774412E+22	1,509078E+23	1,154873E+23	2,663952E+23
-2179	7,545084E+22	7,545248E+22	5,774493E+22	5,774390E+22	1,509033E+23	1,154888E+23	2,663922E+23
-2178	7,545450E+22	7,545315E+22	5,774508E+22	5,774578E+22	1,509077E+23	1,154909E+23	2,663985E+23
-2177	7,545430E+22	7,545284E+22	5,774557E+22	5,774462E+22	1,509071E+23	1,154902E+23	2,663973E+23
-2176	7,545087E+22	7,545324E+22	5,774659E+22	5,774621E+22	1,509041E+23	1,154928E+23	2,663969E+23
-2175	7,545458E+22	7,545389E+22	5,774590E+22	5,774740E+22	1,509085E+23	1,154933E+23	2,664018E+23
-2174	7,545173E+22	7,545275E+22	5,774716E+22	5,774572E+22	1,509045E+23	1,154929E+23	2,663974E+23
-2173	7,545146E+22	7,545312E+22	5,774723E+22	5,774704E+22	1,509046E+23	1,154943E+23	2,663988E+23
-2172	7,545528E+22	7,545286E+22	5,774600E+22	5,774648E+22	1,509081E+23	1,154925E+23	2,664006E+23
-2171	7,545111E+22	7,545214E+22	5,774660E+22	5,774525E+22	1,509032E+23	1,154919E+23	2,663951E+23
-2170	7,545338E+22	7,545332E+22	5,774560E+22	5,774658E+22	1,509067E+23	1,154922E+23	2,663989E+23
-2169	7,545418E+22	7,545335E+22	5,774459E+22	5,774458E+22	1,509075E+23	1,154892E+23	2,663967E+23
-2168	7,545049E+22	7,545305E+22	5,774495E+22	5,774416E+22	1,509035E+23	1,154891E+23	2,663927E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2167	7,545462E+22	7,545354E+22	5,774400E+22	5,774471E+22	1,509082E+23	1,154887E+23	2,663969E+23
-2166	7,545287E+22	7,545248E+22	5,774466E+22	5,774267E+22	1,509054E+23	1,154873E+23	2,663927E+23
-2165	7,545101E+22	7,545310E+22	5,774462E+22	5,774411E+22	1,509041E+23	1,154887E+23	2,663928E+23
-2164	7,545469E+22	7,545354E+22	5,774333E+22	5,774491E+22	1,509082E+23	1,154882E+23	2,663965E+23
-2163	7,545077E+22	7,545225E+22	5,774446E+22	5,774386E+22	1,509030E+23	1,154883E+23	2,663913E+23
-2162	7,545229E+22	7,545282E+22	5,774483E+22	5,774550E+22	1,509051E+23	1,154903E+23	2,663954E+23
-2161	7,545488E+22	7,545284E+22	5,774472E+22	5,774477E+22	1,509077E+23	1,154895E+23	2,663972E+23
-2160	7,545114E+22	7,545214E+22	5,774609E+22	5,774486E+22	1,509033E+23	1,154910E+23	2,663942E+23
-2159	7,545431E+22	7,545343E+22	5,774615E+22	5,774709E+22	1,509077E+23	1,154932E+23	2,664010E+23
-2158	7,545320E+22	7,545308E+22	5,774703E+22	5,774626E+22	1,509063E+23	1,154933E+23	2,663996E+23
-2157	7,545005E+22	7,545326E+22	5,774790E+22	5,774744E+22	1,509033E+23	1,154953E+23	2,663987E+23
-2156	7,545422E+22	7,545366E+22	5,774728E+22	5,774860E+22	1,509079E+23	1,154959E+23	2,664038E+23
-2155	7,545151E+22	7,545164E+22	5,774841E+22	5,774682E+22	1,509032E+23	1,154952E+23	2,663984E+23
-2154	7,545183E+22	7,545218E+22	5,774837E+22	5,774795E+22	1,509040E+23	1,154963E+23	2,664003E+23
-2153	7,545499E+22	7,545301E+22	5,774685E+22	5,774766E+22	1,509080E+23	1,154945E+23	2,664025E+23
-2152	7,545081E+22	7,545210E+22	5,774687E+22	5,774636E+22	1,509029E+23	1,154932E+23	2,663961E+23
-2151	7,545311E+22	7,545343E+22	5,774613E+22	5,774733E+22	1,509065E+23	1,154935E+23	2,664000E+23
-2150	7,545372E+22	7,545311E+22	5,774585E+22	5,774521E+22	1,509068E+23	1,154911E+23	2,663979E+23
-2149	7,545039E+22	7,545264E+22	5,774613E+22	5,774459E+22	1,509030E+23	1,154907E+23	2,663937E+23
-2148	7,545443E+22	7,545352E+22	5,774515E+22	5,774580E+22	1,509079E+23	1,154909E+23	2,663989E+23
-2147	7,545211E+22	7,545196E+22	5,774553E+22	5,774416E+22	1,509041E+23	1,154897E+23	2,663938E+23
-2146	7,545062E+22	7,545257E+22	5,774558E+22	5,774541E+22	1,509032E+23	1,154910E+23	2,663942E+23
-2145	7,545426E+22	7,545347E+22	5,774451E+22	5,774606E+22	1,509077E+23	1,154906E+23	2,663983E+23
-2144	7,545100E+22	7,545166E+22	5,774539E+22	5,774474E+22	1,509026E+23	1,154901E+23	2,663927E+23
-2143	7,545281E+22	7,545243E+22	5,774600E+22	5,774627E+22	1,509052E+23	1,154923E+23	2,663975E+23
-2142	7,545462E+22	7,545271E+22	5,774631E+22	5,774603E+22	1,509073E+23	1,154923E+23	2,663997E+23
-2141	7,545052E+22	7,545244E+22	5,774733E+22	5,774628E+22	1,509030E+23	1,154936E+23	2,663966E+23
-2140	7,545341E+22	7,545390E+22	5,774736E+22	5,774880E+22	1,509073E+23	1,154962E+23	2,664035E+23
-2139	7,545217E+22	7,545242E+22	5,774835E+22	5,774780E+22	1,509046E+23	1,154961E+23	2,664007E+23
-2138	7,545010E+22	7,545220E+22	5,774937E+22	5,774839E+22	1,509023E+23	1,154978E+23	2,664001E+23
-2137	7,545431E+22	7,545307E+22	5,774868E+22	5,774948E+22	1,509074E+23	1,154982E+23	2,664055E+23
-2136	7,545184E+22	7,545108E+22	5,774904E+22	5,774794E+22	1,509029E+23	1,154970E+23	2,663999E+23
-2135	7,545194E+22	7,545237E+22	5,774880E+22	5,774904E+22	1,509043E+23	1,154978E+23	2,664021E+23
-2134	7,545424E+22	7,545336E+22	5,774777E+22	5,774877E+22	1,509076E+23	1,154965E+23	2,664041E+23
-2133	7,545038E+22	7,545241E+22	5,774780E+22	5,774696E+22	1,509028E+23	1,154948E+23	2,663976E+23
-2132	7,545286E+22	7,545347E+22	5,774729E+22	5,774785E+22	1,509063E+23	1,154951E+23	2,664015E+23
-2131	7,545326E+22	7,545219E+22	5,774716E+22	5,774602E+22	1,509054E+23	1,154932E+23	2,663986E+23
-2130	7,545036E+22	7,545176E+22	5,774733E+22	5,774562E+22	1,509021E+23	1,154929E+23	2,663951E+23
-2129	7,545364E+22	7,545338E+22	5,774610E+22	5,774722E+22	1,509070E+23	1,154933E+23	2,664003E+23
-2128	7,545170E+22	7,545143E+22	5,774590E+22	5,774568E+22	1,509031E+23	1,154916E+23	2,663947E+23
-2127	7,545071E+22	7,545212E+22	5,774615E+22	5,774635E+22	1,509028E+23	1,154925E+23	2,663953E+23
-2126	7,545424E+22	7,545304E+22	5,774581E+22	5,774685E+22	1,509073E+23	1,154927E+23	2,663999E+23
-2125	7,545135E+22	7,545146E+22	5,774660E+22	5,774535E+22	1,509028E+23	1,154920E+23	2,663948E+23
-2124	7,545268E+22	7,545296E+22	5,774729E+22	5,774743E+22	1,509056E+23	1,154947E+23	2,664004E+23
-2123	7,545366E+22	7,545277E+22	5,774768E+22	5,774772E+22	1,509064E+23	1,154954E+23	2,664018E+23
-2122	7,544987E+22	7,545220E+22	5,774889E+22	5,774783E+22	1,509021E+23	1,154967E+23	2,663988E+23
-2121	7,545255E+22	7,545376E+22	5,774908E+22	5,775019E+22	1,509063E+23	1,154993E+23	2,664056E+23
-2120	7,545221E+22	7,545135E+22	5,774953E+22	5,774908E+22	1,509036E+23	1,154986E+23	2,664022E+23
-2119	7,545059E+22	7,545131E+22	5,775041E+22	5,774943E+22	1,509019E+23	1,154998E+23	2,664017E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2118	7,545422E+22	7,545275E+22	5,774979E+22	5,775083E+22	1,509070E+23	1,155006E+23	2,664076E+23
-2117	7,545158E+22	7,545130E+22	5,774952E+22	5,774901E+22	1,509029E+23	1,154985E+23	2,664014E+23
-2116	7,545146E+22	7,545297E+22	5,774937E+22	5,775000E+22	1,509044E+23	1,154994E+23	2,664038E+23
-2115	7,545362E+22	7,545291E+22	5,774875E+22	5,774943E+22	1,509065E+23	1,154982E+23	2,664047E+23
-2114	7,545042E+22	7,545161E+22	5,774913E+22	5,774727E+22	1,509020E+23	1,154964E+23	2,663984E+23
-2113	7,545253E+22	7,545316E+22	5,774873E+22	5,774843E+22	1,509057E+23	1,154972E+23	2,664029E+23
-2112	7,545306E+22	7,545155E+22	5,774784E+22	5,774725E+22	1,509046E+23	1,154951E+23	2,663997E+23
-2111	7,545010E+22	7,545154E+22	5,774785E+22	5,774694E+22	1,509016E+23	1,154948E+23	2,663964E+23
-2110	7,545296E+22	7,545325E+22	5,774702E+22	5,774862E+22	1,509062E+23	1,154956E+23	2,664019E+23
-2109	7,545157E+22	7,545135E+22	5,774670E+22	5,774653E+22	1,509029E+23	1,154932E+23	2,663961E+23
-2108	7,545095E+22	7,545222E+22	5,774723E+22	5,774709E+22	1,509032E+23	1,154943E+23	2,663975E+23
-2107	7,545412E+22	7,545247E+22	5,774727E+22	5,774786E+22	1,509066E+23	1,154951E+23	2,664017E+23
-2106	7,545128E+22	7,545126E+22	5,774812E+22	5,774663E+22	1,509025E+23	1,154947E+23	2,663973E+23
-2105	7,545163E+22	7,545334E+22	5,774881E+22	5,774899E+22	1,509050E+23	1,154978E+23	2,664028E+23
-2104	7,545294E+22	7,545230E+22	5,774874E+22	5,774951E+22	1,509052E+23	1,154983E+23	2,664035E+23
-2103	7,544981E+22	7,545139E+22	5,775011E+22	5,774908E+22	1,509012E+23	1,154992E+23	2,664004E+23
-2102	7,545239E+22	7,545284E+22	5,775063E+22	5,775131E+22	1,509052E+23	1,155019E+23	2,664072E+23
-2101	7,545259E+22	7,545090E+22	5,775052E+22	5,775001E+22	1,509035E+23	1,155005E+23	2,664040E+23
-2100	7,545075E+22	7,545164E+22	5,775105E+22	5,775054E+22	1,509024E+23	1,155016E+23	2,664040E+23
-2099	7,545354E+22	7,545275E+22	5,775062E+22	5,775208E+22	1,509063E+23	1,155027E+23	2,664090E+23
-2098	7,545127E+22	7,545141E+22	5,775058E+22	5,774984E+22	1,509027E+23	1,155004E+23	2,664031E+23
-2097	7,545075E+22	7,545312E+22	5,775083E+22	5,775051E+22	1,509039E+23	1,155013E+23	2,664052E+23
-2096	7,545351E+22	7,545211E+22	5,774985E+22	5,775019E+22	1,509056E+23	1,155000E+23	2,664057E+23
-2095	7,545059E+22	7,545072E+22	5,775021E+22	5,774812E+22	1,509013E+23	1,154983E+23	2,663996E+23
-2094	7,545181E+22	7,545274E+22	5,774978E+22	5,774988E+22	1,509045E+23	1,154997E+23	2,664042E+23
-2093	7,545248E+22	7,545150E+22	5,774820E+22	5,774864E+22	1,509040E+23	1,154968E+23	2,664008E+23
-2092	7,544977E+22	7,545174E+22	5,774818E+22	5,774812E+22	1,509015E+23	1,154963E+23	2,663978E+23
-2091	7,545271E+22	7,545259E+22	5,774795E+22	5,774949E+22	1,509053E+23	1,154974E+23	2,664027E+23
-2090	7,545209E+22	7,545081E+22	5,774796E+22	5,774697E+22	1,509029E+23	1,154949E+23	2,663978E+23
-2089	7,545088E+22	7,545237E+22	5,774885E+22	5,774775E+22	1,509033E+23	1,154966E+23	2,663998E+23
-2088	7,545389E+22	7,545232E+22	5,774840E+22	5,774926E+22	1,509062E+23	1,154977E+23	2,664039E+23
-2087	7,545079E+22	7,545120E+22	5,774940E+22	5,774817E+22	1,509020E+23	1,154976E+23	2,663996E+23
-2086	7,545062E+22	7,545320E+22	5,775048E+22	5,775070E+22	1,509038E+23	1,155012E+23	2,664050E+23
-2085	7,545256E+22	7,545177E+22	5,775000E+22	5,775073E+22	1,509043E+23	1,155007E+23	2,664051E+23
-2084	7,545000E+22	7,545094E+22	5,775126E+22	5,775021E+22	1,509009E+23	1,155015E+23	2,664024E+23
-2083	7,545243E+22	7,545185E+22	5,775189E+22	5,775260E+22	1,509043E+23	1,155045E+23	2,664088E+23
-2082	7,545261E+22	7,545069E+22	5,775149E+22	5,775124E+22	1,509033E+23	1,155027E+23	2,664060E+23
-2081	7,545003E+22	7,545224E+22	5,775209E+22	5,775167E+22	1,509023E+23	1,155038E+23	2,664060E+23
-2080	7,545309E+22	7,545249E+22	5,775136E+22	5,775315E+22	1,509056E+23	1,155045E+23	2,664101E+23
-2079	7,545125E+22	7,545090E+22	5,775172E+22	5,775039E+22	1,509021E+23	1,155021E+23	2,664043E+23
-2078	7,545037E+22	7,545257E+22	5,775232E+22	5,775120E+22	1,509029E+23	1,155035E+23	2,664065E+23
-2077	7,545331E+22	7,545175E+22	5,775071E+22	5,775102E+22	1,509051E+23	1,155017E+23	2,664068E+23
-2076	7,545031E+22	7,545094E+22	5,775071E+22	5,774940E+22	1,509012E+23	1,155001E+23	2,664014E+23
-2075	7,545105E+22	7,545231E+22	5,775052E+22	5,775131E+22	1,509034E+23	1,155018E+23	2,664052E+23
-2074	7,545230E+22	7,545131E+22	5,774906E+22	5,774961E+22	1,509036E+23	1,154987E+23	2,664023E+23
-2073	7,544958E+22	7,545180E+22	5,774945E+22	5,774861E+22	1,509014E+23	1,154981E+23	2,663994E+23
-2072	7,545303E+22	7,545188E+22	5,774904E+22	5,775023E+22	1,509049E+23	1,154993E+23	2,664042E+23
-2071	7,545250E+22	7,545035E+22	5,774928E+22	5,774787E+22	1,509029E+23	1,154972E+23	2,664000E+23
-2070	7,545003E+22	7,545236E+22	5,775033E+22	5,774926E+22	1,509024E+23	1,154996E+23	2,664020E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2069	7,545297E+22	7,545243E+22	5,774936E+22	5,775085E+22	1,509054E+23	1,155002E+23	2,664056E+23
-2068	7,545028E+22	7,545111E+22	5,775036E+22	5,774965E+22	1,509014E+23	1,155000E+23	2,664014E+23
-2067	7,545011E+22	7,545202E+22	5,775193E+22	5,775199E+22	1,509021E+23	1,155039E+23	2,664060E+23
-2066	7,545290E+22	7,545098E+22	5,775136E+22	5,775170E+22	1,509039E+23	1,155031E+23	2,664069E+23
-2065	7,545000E+22	7,545094E+22	5,775259E+22	5,775119E+22	1,509009E+23	1,155038E+23	2,664047E+23
-2064	7,545233E+22	7,545171E+22	5,775263E+22	5,775407E+22	1,509040E+23	1,155067E+23	2,664107E+23
-2063	7,545246E+22	7,545079E+22	5,775246E+22	5,775240E+22	1,509032E+23	1,155049E+23	2,664081E+23
-2062	7,544919E+22	7,545240E+22	5,775356E+22	5,775274E+22	1,509016E+23	1,155063E+23	2,664079E+23
-2061	7,545270E+22	7,545231E+22	5,775254E+22	5,775381E+22	1,509050E+23	1,155064E+23	2,664114E+23
-2060	7,545125E+22	7,545061E+22	5,775283E+22	5,775120E+22	1,509019E+23	1,155040E+23	2,664059E+23
-2059	7,544987E+22	7,545162E+22	5,775355E+22	5,775247E+22	1,509015E+23	1,155060E+23	2,664075E+23
-2058	7,545286E+22	7,545147E+22	5,775143E+22	5,775233E+22	1,509043E+23	1,155038E+23	2,664081E+23
-2057	7,544961E+22	7,545112E+22	5,775144E+22	5,775054E+22	1,509007E+23	1,155020E+23	2,664027E+23
-2056	7,545100E+22	7,545160E+22	5,775098E+22	5,775233E+22	1,509026E+23	1,155033E+23	2,664059E+23
-2055	7,545279E+22	7,545059E+22	5,775004E+22	5,774997E+22	1,509034E+23	1,155000E+23	2,664034E+23
-2054	7,544967E+22	7,545156E+22	5,775090E+22	5,774919E+22	1,509012E+23	1,155001E+23	2,664013E+23
-2053	7,545293E+22	7,545191E+22	5,775002E+22	5,775097E+22	1,509048E+23	1,155010E+23	2,664058E+23
-2052	7,545197E+22	7,545095E+22	5,775018E+22	5,774927E+22	1,509029E+23	1,154994E+23	2,664024E+23
-2051	7,544890E+22	7,545207E+22	5,775172E+22	5,775102E+22	1,509010E+23	1,155027E+23	2,664037E+23
-2050	7,545222E+22	7,545212E+22	5,775077E+22	5,775225E+22	1,509043E+23	1,155030E+23	2,664074E+23
-2049	7,544991E+22	7,545079E+22	5,775202E+22	5,775076E+22	1,509007E+23	1,155028E+23	2,664035E+23
-2048	7,545047E+22	7,545078E+22	5,775311E+22	5,775333E+22	1,509012E+23	1,155064E+23	2,664077E+23
-2047	7,545334E+22	7,545031E+22	5,775256E+22	5,775294E+22	1,509036E+23	1,155055E+23	2,664091E+23
-2046	7,544948E+22	7,545117E+22	5,775376E+22	5,775271E+22	1,509007E+23	1,155065E+23	2,664071E+23
-2045	7,545174E+22	7,545203E+22	5,775336E+22	5,775525E+22	1,509038E+23	1,155086E+23	2,664124E+23
-2044	7,545218E+22	7,545110E+22	5,775338E+22	5,775335E+22	1,509033E+23	1,155067E+23	2,664100E+23
-2043	7,544875E+22	7,545156E+22	5,775512E+22	5,775358E+22	1,509003E+23	1,155087E+23	2,664090E+23
-2042	7,545259E+22	7,545180E+22	5,775391E+22	5,775451E+22	1,509044E+23	1,155084E+23	2,664128E+23
-2041	7,545088E+22	7,545060E+22	5,775407E+22	5,775217E+22	1,509015E+23	1,155062E+23	2,664077E+23
-2040	7,544948E+22	7,545106E+22	5,775408E+22	5,775398E+22	1,509005E+23	1,155081E+23	2,664086E+23
-2039	7,545277E+22	7,545111E+22	5,775215E+22	5,775345E+22	1,509039E+23	1,155056E+23	2,664095E+23
-2038	7,544919E+22	7,545097E+22	5,775244E+22	5,775136E+22	1,509002E+23	1,155038E+23	2,664040E+23
-2037	7,545110E+22	7,545134E+22	5,775173E+22	5,775272E+22	1,509024E+23	1,155044E+23	2,664069E+23
-2036	7,545319E+22	7,545058E+22	5,775089E+22	5,775057E+22	1,509038E+23	1,155015E+23	2,664052E+23
-2035	7,544908E+22	7,545106E+22	5,775223E+22	5,775045E+22	1,509001E+23	1,155027E+23	2,664028E+23
-2034	7,545196E+22	7,545216E+22	5,775111E+22	5,775239E+22	1,509041E+23	1,155035E+23	2,664076E+23
-2033	7,545090E+22	7,545116E+22	5,775148E+22	5,775072E+22	1,509021E+23	1,155022E+23	2,664043E+23
-2032	7,544849E+22	7,545098E+22	5,775280E+22	5,775253E+22	1,508995E+23	1,155053E+23	2,664048E+23
-2031	7,545260E+22	7,545092E+22	5,775216E+22	5,775321E+22	1,509035E+23	1,155054E+23	2,664089E+23
-2030	7,545004E+22	7,545023E+22	5,775348E+22	5,775187E+22	1,509003E+23	1,155054E+23	2,664056E+23
-2029	7,545063E+22	7,545075E+22	5,775389E+22	5,775449E+22	1,509014E+23	1,155084E+23	2,664098E+23
-2028	7,545323E+22	7,545099E+22	5,775331E+22	5,775431E+22	1,509042E+23	1,155076E+23	2,664118E+23
-2027	7,544872E+22	7,545117E+22	5,775522E+22	5,775415E+22	1,508999E+23	1,155094E+23	2,664093E+23
-2026	7,545109E+22	7,545217E+22	5,775488E+22	5,775609E+22	1,509033E+23	1,155110E+23	2,664142E+23
-2025	7,545177E+22	7,545103E+22	5,775521E+22	5,775412E+22	1,509028E+23	1,155093E+23	2,664121E+23
-2024	7,544877E+22	7,545034E+22	5,775639E+22	5,775485E+22	1,508991E+23	1,155112E+23	2,664103E+23
-2023	7,545245E+22	7,545092E+22	5,775497E+22	5,775575E+22	1,509034E+23	1,155107E+23	2,664141E+23
-2022	7,545014E+22	7,545051E+22	5,775483E+22	5,775371E+22	1,509006E+23	1,155085E+23	2,664092E+23
-2021	7,544917E+22	7,545081E+22	5,775418E+22	5,775497E+22	1,509000E+23	1,155092E+23	2,664091E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2020	7,545287E+22	7,545107E+22	5,775250E+22	5,775403E+22	1,509039E+23	1,155065E+23	2,664105E+23
-2019	7,544923E+22	7,545033E+22	5,775356E+22	5,775187E+22	1,508996E+23	1,155054E+23	2,664050E+23
-2018	7,545103E+22	7,545137E+22	5,775283E+22	5,775308E+22	1,509024E+23	1,155059E+23	2,664083E+23
-2017	7,545267E+22	7,545115E+22	5,775219E+22	5,775148E+22	1,509038E+23	1,155037E+23	2,664075E+23
-2016	7,544841E+22	7,545066E+22	5,775321E+22	5,775210E+22	1,508991E+23	1,155053E+23	2,664044E+23
-2015	7,545135E+22	7,545164E+22	5,775245E+22	5,775376E+22	1,509030E+23	1,155062E+23	2,664092E+23
-2014	7,545029E+22	7,545072E+22	5,775304E+22	5,775207E+22	1,509010E+23	1,155051E+23	2,664061E+23
-2013	7,544870E+22	7,545014E+22	5,775382E+22	5,775353E+22	1,508988E+23	1,155073E+23	2,664062E+23
-2012	7,545317E+22	7,545058E+22	5,775313E+22	5,775438E+22	1,509037E+23	1,155075E+23	2,664113E+23
-2011	7,544982E+22	7,544984E+22	5,775474E+22	5,775345E+22	1,508997E+23	1,155082E+23	2,664079E+23
-2010	7,544998E+22	7,545133E+22	5,775490E+22	5,775583E+22	1,509013E+23	1,155107E+23	2,664120E+23
-2009	7,545255E+22	7,545157E+22	5,775474E+22	5,775547E+22	1,509041E+23	1,155102E+23	2,664143E+23
-2008	7,544838E+22	7,545035E+22	5,775662E+22	5,775537E+22	1,508987E+23	1,155120E+23	2,664107E+23
-2007	7,545116E+22	7,545124E+22	5,775658E+22	5,775685E+22	1,509024E+23	1,155134E+23	2,664158E+23
-2006	7,545145E+22	7,545049E+22	5,775666E+22	5,775524E+22	1,509019E+23	1,155119E+23	2,664139E+23
-2005	7,544848E+22	7,544998E+22	5,775687E+22	5,775611E+22	1,508985E+23	1,155130E+23	2,664114E+23
-2004	7,545225E+22	7,545110E+22	5,775521E+22	5,775708E+22	1,509034E+23	1,155123E+23	2,664156E+23
-2003	7,544956E+22	7,545010E+22	5,775563E+22	5,775489E+22	1,508997E+23	1,155105E+23	2,664102E+23
-2002	7,544892E+22	7,545094E+22	5,775499E+22	5,775538E+22	1,508999E+23	1,155104E+23	2,664102E+23
-2001	7,545296E+22	7,545114E+22	5,775379E+22	5,775429E+22	1,509041E+23	1,155081E+23	2,664122E+23
-2000	7,544934E+22	7,544951E+22	5,775466E+22	5,775281E+22	1,508989E+23	1,155075E+23	2,664063E+23
-1999	7,545066E+22	7,545100E+22	5,775405E+22	5,775411E+22	1,509017E+23	1,155082E+23	2,664098E+23
-1998	7,545157E+22	7,545124E+22	5,775336E+22	5,775305E+22	1,509028E+23	1,155064E+23	2,664092E+23
-1997	7,544788E+22	7,545015E+22	5,775389E+22	5,775345E+22	1,508980E+23	1,155073E+23	2,664054E+23
-1996	7,545143E+22	7,545109E+22	5,775332E+22	5,775481E+22	1,509025E+23	1,155081E+23	2,664107E+23
-1995	7,545042E+22	7,544970E+22	5,775446E+22	5,775323E+22	1,509001E+23	1,155077E+23	2,664078E+23
-1994	7,544884E+22	7,545014E+22	5,775489E+22	5,775444E+22	1,508990E+23	1,155093E+23	2,664083E+23
-1993	7,545293E+22	7,545126E+22	5,775442E+22	5,775564E+22	1,509042E+23	1,155101E+23	2,664143E+23
-1992	7,544945E+22	7,544977E+22	5,775589E+22	5,775518E+22	1,508992E+23	1,155111E+23	2,664103E+23
-1991	7,544945E+22	7,545113E+22	5,775653E+22	5,775693E+22	1,509006E+23	1,155135E+23	2,664140E+23
-1990	7,545187E+22	7,545144E+22	5,775660E+22	5,775665E+22	1,509033E+23	1,155132E+23	2,664166E+23
-1989	7,544843E+22	7,544943E+22	5,775783E+22	5,775639E+22	1,508979E+23	1,155142E+23	2,664121E+23
-1988	7,545115E+22	7,545067E+22	5,775751E+22	5,775809E+22	1,509018E+23	1,155156E+23	2,664174E+23
-1987	7,545082E+22	7,544992E+22	5,775761E+22	5,775697E+22	1,509007E+23	1,155146E+23	2,664153E+23
-1986	7,544779E+22	7,545017E+22	5,775726E+22	5,775728E+22	1,508980E+23	1,155145E+23	2,664125E+23
-1985	7,545194E+22	7,545130E+22	5,775600E+22	5,775783E+22	1,509032E+23	1,155138E+23	2,664171E+23
-1984	7,544980E+22	7,544922E+22	5,775642E+22	5,775551E+22	1,508990E+23	1,155119E+23	2,664110E+23
-1983	7,544931E+22	7,545027E+22	5,775626E+22	5,775547E+22	1,508996E+23	1,155117E+23	2,664113E+23
-1982	7,545269E+22	7,545123E+22	5,775511E+22	5,775499E+22	1,509039E+23	1,155101E+23	2,664140E+23
-1981	7,544894E+22	7,544948E+22	5,775533E+22	5,775395E+22	1,508984E+23	1,155093E+23	2,664077E+23
-1980	7,545002E+22	7,545121E+22	5,775479E+22	5,775549E+22	1,509012E+23	1,155103E+23	2,664115E+23
-1979	7,545069E+22	7,545068E+22	5,775470E+22	5,775460E+22	1,509014E+23	1,155093E+23	2,664107E+23
-1978	7,544752E+22	7,544989E+22	5,775502E+22	5,775438E+22	1,508974E+23	1,155094E+23	2,664068E+23
-1977	7,545172E+22	7,545074E+22	5,775477E+22	5,775575E+22	1,509025E+23	1,155105E+23	2,664130E+23
-1976	7,545066E+22	7,544878E+22	5,775554E+22	5,775474E+22	1,508994E+23	1,155103E+23	2,664097E+23
-1975	7,544870E+22	7,545002E+22	5,775609E+22	5,775576E+22	1,508987E+23	1,155119E+23	2,664106E+23
-1974	7,545210E+22	7,545162E+22	5,775570E+22	5,775712E+22	1,509037E+23	1,155128E+23	2,664165E+23
-1973	7,544903E+22	7,544946E+22	5,775691E+22	5,775639E+22	1,508985E+23	1,155133E+23	2,664118E+23
-1972	7,544939E+22	7,545076E+22	5,775780E+22	5,775784E+22	1,509001E+23	1,155156E+23	2,664158E+23

1	14	15	16	17	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							
-1971	7,545156E+22	7,545047E+22	5,775827E+22	5,775788E+22	1,509020E+23	1,155162E+23	2,664182E+23
-1970	7,544808E+22	7,544931E+22	5,775888E+22	5,775749E+22	1,508974E+23	1,155164E+23	2,664138E+23
-1969	7,545077E+22	7,545086E+22	5,775852E+22	5,775940E+22	1,509016E+23	1,155179E+23	2,664196E+23
-1968	7,545049E+22	7,544938E+22	5,775831E+22	5,775849E+22	1,508999E+23	1,155168E+23	2,664167E+23
-1967	7,544771E+22	7,544983E+22	5,775830E+22	5,775791E+22	1,508975E+23	1,155162E+23	2,664138E+23
-1966	7,545176E+22	7,545123E+22	5,775731E+22	5,775834E+22	1,509030E+23	1,155156E+23	2,664186E+23
-1965	7,545016E+22	7,544869E+22	5,775730E+22	5,775602E+22	1,508989E+23	1,155133E+23	2,664122E+23
-1964	7,544928E+22	7,545021E+22	5,775711E+22	5,775630E+22	1,508995E+23	1,155134E+23	2,664129E+23
-1963	7,545167E+22	7,545109E+22	5,775622E+22	5,775659E+22	1,509028E+23	1,155128E+23	2,664156E+23
-1962	7,544789E+22	7,544971E+22	5,775605E+22	5,775526E+22	1,508976E+23	1,155113E+23	2,664089E+23
-1961	7,544946E+22	7,545103E+22	5,775596E+22	5,775661E+22	1,509005E+23	1,155126E+23	2,664131E+23
-1960	7,545084E+22	7,544943E+22	5,775579E+22	5,775581E+22	1,509003E+23	1,155116E+23	2,664119E+23
-1959	7,544801E+22	7,544897E+22	5,775625E+22	5,775502E+22	1,508970E+23	1,155113E+23	2,664082E+23
-1958	7,545162E+22	7,545081E+22	5,775599E+22	5,775688E+22	1,509024E+23	1,155129E+23	2,664153E+23
-1957	7,545062E+22	7,544887E+22	5,775618E+22	5,775608E+22	1,508995E+23	1,155123E+23	2,664117E+23
-1956	7,544827E+22	7,545037E+22	5,775711E+22	5,775700E+22	1,508986E+23	1,155141E+23	2,664127E+23
-1955	7,545123E+22	7,545142E+22	5,775748E+22	5,775854E+22	1,509027E+23	1,155160E+23	2,664187E+23
-1954	7,544852E+22	7,544930E+22	5,775850E+22	5,775731E+22	1,508978E+23	1,155158E+23	2,664136E+23
-1953	7,544927E+22	7,545032E+22	5,775958E+22	5,775898E+22	1,508996E+23	1,155186E+23	2,664182E+23
-1952	7,545134E+22	7,544939E+22	5,775945E+22	5,775967E+22	1,509007E+23	1,155191E+23	2,664198E+23
-1951	7,544773E+22	7,544886E+22	5,775980E+22	5,775891E+22	1,508966E+23	1,155187E+23	2,664153E+23
-1950	7,545018E+22	7,545091E+22	5,775940E+22	5,776071E+22	1,509011E+23	1,155201E+23	2,664212E+23
-1949	7,545062E+22	7,544891E+22	5,775881E+22	5,775925E+22	1,508995E+23	1,155181E+23	2,664176E+23
-1948	7,544814E+22	7,544962E+22	5,775914E+22	5,775821E+22	1,508978E+23	1,155173E+23	2,664151E+23
-1947	7,545159E+22	7,545086E+22	5,775866E+22	5,775903E+22	1,509024E+23	1,155177E+23	2,664201E+23
-1946	7,544957E+22	7,544918E+22	5,775822E+22	5,775681E+22	1,508987E+23	1,155150E+23	2,664138E+23
-1945	7,544852E+22	7,545068E+22	5,775822E+22	5,775757E+22	1,508992E+23	1,155158E+23	2,664150E+23
-1944	7,545076E+22	7,545041E+22	5,775716E+22	5,775823E+22	1,509012E+23	1,155154E+23	2,664166E+23
-1943	7,544757E+22	7,544898E+22	5,775726E+22	5,775621E+22	1,508966E+23	1,155135E+23	2,664100E+23
-1942	7,544944E+22	7,545033E+22	5,775726E+22	5,775745E+22	1,508998E+23	1,155147E+23	2,664145E+23
-1941	7,545138E+22	7,544846E+22	5,775653E+22	5,775674E+22	1,508998E+23	1,155133E+23	2,664131E+23
-1940	7,544827E+22	7,544894E+22	5,775698E+22	5,775609E+22	1,508972E+23	1,155131E+23	2,664103E+23
-1939	7,545083E+22	7,545092E+22	5,775713E+22	5,775846E+22	1,509017E+23	1,155156E+23	2,664173E+23
-1938	7,544974E+22	7,544944E+22	5,775724E+22	5,775724E+22	1,508992E+23	1,155145E+23	2,664137E+23
-1937	7,544785E+22	7,545035E+22	5,775882E+22	5,775803E+22	1,508982E+23	1,155169E+23	2,664151E+23
-1936	7,545098E+22	7,545026E+22	5,775918E+22	5,775984E+22	1,509012E+23	1,155190E+23	2,664203E+23
-1935	7,544859E+22	7,544845E+22	5,776017E+22	5,775837E+22	1,508970E+23	1,155185E+23	2,664156E+23
-1934	7,544883E+22	7,545014E+22	5,776094E+22	5,776051E+22	1,508990E+23	1,155215E+23	2,664204E+23
-1933	7,545115E+22	7,544913E+22	5,776001E+22	5,776131E+22	1,509003E+23	1,155213E+23	2,664216E+23
-1932	7,544762E+22	7,544896E+22	5,776046E+22	5,776004E+22	1,508966E+23	1,155205E+23	2,664171E+23
-1931	7,544975E+22	7,545073E+22	5,776067E+22	5,776175E+22	1,509005E+23	1,155224E+23	2,664229E+23
-1930	7,545053E+22	7,544907E+22	5,775990E+22	5,775964E+22	1,508996E+23	1,155195E+23	2,664191E+23
-1929	7,544815E+22	7,544959E+22	5,776057E+22	5,775887E+22	1,508977E+23	1,155194E+23	2,664172E+23
-1928	7,545099E+22	7,545031E+22	5,775973E+22	5,776044E+22	1,509013E+23	1,155202E+23	2,664215E+23
-1927	7,544880E+22	7,544886E+22	5,775915E+22	5,775799E+22	1,508977E+23	1,155171E+23	2,664148E+23
-1926	7,544757E+22	7,545038E+22	5,775922E+22	5,775881E+22	1,508980E+23	1,155180E+23	2,664160E+23
-1925	7,545080E+22	7,544938E+22	5,775771E+22	5,775916E+22	1,509002E+23	1,155169E+23	2,664170E+23
-1924	7,544812E+22	7,544821E+22	5,775798E+22	5,775672E+22	1,508963E+23	1,155147E+23	2,664110E+23
-1923	7,544952E+22	7,544986E+22	5,775837E+22	5,775844E+22	1,508994E+23	1,155168E+23	2,664162E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1922	7,545111E+22	7,544906E+22	5,775728E+22	5,775763E+22	1,509002E+23	1,155149E+23	2,664151E+23
-1921	7,544782E+22	7,544966E+22	5,775824E+22	5,775733E+22	1,508975E+23	1,155156E+23	2,664131E+23
-1920	7,544996E+22	7,545067E+22	5,775861E+22	5,775999E+22	1,509006E+23	1,155186E+23	2,664192E+23
-1919	7,544925E+22	7,544904E+22	5,775910E+22	5,775829E+22	1,508983E+23	1,155174E+23	2,664157E+23
-1918	7,544748E+22	7,544976E+22	5,776081E+22	5,775929E+22	1,508972E+23	1,155201E+23	2,664173E+23
-1917	7,545106E+22	7,544919E+22	5,776035E+22	5,776140E+22	1,509002E+23	1,155218E+23	2,664220E+23
-1916	7,544854E+22	7,544811E+22	5,776102E+22	5,776002E+22	1,508966E+23	1,155210E+23	2,664177E+23
-1915	7,544811E+22	7,544996E+22	5,776186E+22	5,776239E+22	1,508981E+23	1,155243E+23	2,664223E+23
-1914	7,545061E+22	7,544946E+22	5,776071E+22	5,776234E+22	1,509001E+23	1,155231E+23	2,664231E+23
-1913	7,544783E+22	7,544902E+22	5,776171E+22	5,776068E+22	1,508969E+23	1,155224E+23	2,664192E+23
-1912	7,544976E+22	7,544988E+22	5,776195E+22	5,776240E+22	1,508996E+23	1,155244E+23	2,664240E+23
-1911	7,545051E+22	7,544879E+22	5,776123E+22	5,776017E+22	1,508993E+23	1,155214E+23	2,664207E+23
-1910	7,544750E+22	7,544967E+22	5,776175E+22	5,775994E+22	1,508972E+23	1,155217E+23	2,664189E+23
-1909	7,545027E+22	7,544989E+22	5,776027E+22	5,776177E+22	1,509002E+23	1,155220E+23	2,664222E+23
-1908	7,544842E+22	7,544855E+22	5,775986E+22	5,775905E+22	1,508970E+23	1,155189E+23	2,664159E+23
-1907	7,544714E+22	7,544966E+22	5,776033E+22	5,775988E+22	1,508968E+23	1,155202E+23	2,664170E+23
-1906	7,545088E+22	7,544908E+22	5,775857E+22	5,775971E+22	1,509000E+23	1,155183E+23	2,664182E+23
-1905	7,544854E+22	7,544813E+22	5,775904E+22	5,775758E+22	1,508967E+23	1,155166E+23	2,664133E+23
-1904	7,544905E+22	7,544961E+22	5,775927E+22	5,775988E+22	1,508987E+23	1,155192E+23	2,664178E+23
-1903	7,545048E+22	7,544932E+22	5,775838E+22	5,775884E+22	1,508998E+23	1,155172E+23	2,664170E+23
-1902	7,544702E+22	7,544970E+22	5,775981E+22	5,775860E+22	1,508967E+23	1,155184E+23	2,664151E+23
-1901	7,544973E+22	7,544984E+22	5,775994E+22	5,776115E+22	1,508996E+23	1,155211E+23	2,664207E+23
-1900	7,544946E+22	7,544828E+22	5,776055E+22	5,775934E+22	1,508977E+23	1,155199E+23	2,664176E+23
-1899	7,544715E+22	7,544915E+22	5,776232E+22	5,776099E+22	1,508963E+23	1,155233E+23	2,664196E+23
-1898	7,545060E+22	7,544944E+22	5,776122E+22	5,776288E+22	1,509000E+23	1,155241E+23	2,664241E+23
-1897	7,544833E+22	7,544840E+22	5,776204E+22	5,776151E+22	1,508967E+23	1,155236E+23	2,664203E+23
-1896	7,544769E+22	7,544959E+22	5,776299E+22	5,776375E+22	1,508973E+23	1,155267E+23	2,664240E+23
-1895	7,545065E+22	7,544915E+22	5,776211E+22	5,776284E+22	1,508998E+23	1,155249E+23	2,664248E+23
-1894	7,544777E+22	7,544870E+22	5,776336E+22	5,776128E+22	1,508965E+23	1,155246E+23	2,664211E+23
-1893	7,544968E+22	7,544924E+22	5,776292E+22	5,776337E+22	1,508989E+23	1,155263E+23	2,664252E+23
-1892	7,545003E+22	7,544863E+22	5,776197E+22	5,776137E+22	1,508987E+23	1,155233E+23	2,664220E+23
-1891	7,544638E+22	7,544939E+22	5,776260E+22	5,776158E+22	1,508958E+23	1,155242E+23	2,664200E+23
-1890	7,544955E+22	7,544972E+22	5,776083E+22	5,776265E+22	1,508993E+23	1,155235E+23	2,664228E+23
-1889	7,544869E+22	7,544810E+22	5,776078E+22	5,775973E+22	1,508968E+23	1,155205E+23	2,664173E+23
-1888	7,544735E+22	7,544871E+22	5,776123E+22	5,776070E+22	1,508961E+23	1,155219E+23	2,664180E+23
-1887	7,545104E+22	7,544898E+22	5,775956E+22	5,776035E+22	1,509000E+23	1,155199E+23	2,664199E+23
-1886	7,544814E+22	7,544863E+22	5,776020E+22	5,775872E+22	1,508968E+23	1,155189E+23	2,664157E+23
-1885	7,544849E+22	7,544958E+22	5,776015E+22	5,776117E+22	1,508981E+23	1,155213E+23	2,664194E+23
-1884	7,545008E+22	7,544927E+22	5,775972E+22	5,775997E+22	1,508994E+23	1,155197E+23	2,664190E+23
-1883	7,544648E+22	7,544907E+22	5,776162E+22	5,776003E+22	1,508955E+23	1,155217E+23	2,664172E+23
-1882	7,544942E+22	7,544936E+22	5,776140E+22	5,776225E+22	1,508988E+23	1,155236E+23	2,664224E+23
-1881	7,544964E+22	7,544795E+22	5,776193E+22	5,776097E+22	1,508976E+23	1,155229E+23	2,664205E+23
-1880	7,544659E+22	7,544850E+22	5,776323E+22	5,776292E+22	1,508951E+23	1,155261E+23	2,664212E+23
-1879	7,545017E+22	7,544935E+22	5,776219E+22	5,776420E+22	1,508995E+23	1,155264E+23	2,664259E+23
-1878	7,544817E+22	7,544830E+22	5,776334E+22	5,776246E+22	1,508965E+23	1,155258E+23	2,664223E+23
-1877	7,544789E+22	7,544884E+22	5,776403E+22	5,776436E+22	1,508967E+23	1,155284E+23	2,664251E+23
-1876	7,545099E+22	7,544883E+22	5,776336E+22	5,776338E+22	1,508998E+23	1,155267E+23	2,664266E+23
-1875	7,544723E+22	7,544856E+22	5,776470E+22	5,776256E+22	1,508958E+23	1,155273E+23	2,664231E+23
-1874	7,544866E+22	7,544964E+22	5,776372E+22	5,776451E+22	1,508983E+23	1,155282E+23	2,664265E+23

1	14	15	16	17	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							
-1873	7,544946E+22	7,544878E+22	5,776287E+22	5,776276E+22	1,508982E+23	1,155256E+23	2,664239E+23
-1872	7,544570E+22	7,544860E+22	5,776351E+22	5,776287E+22	1,508943E+23	1,155264E+23	2,664207E+23
-1871	7,544964E+22	7,544909E+22	5,776189E+22	5,776322E+22	1,508987E+23	1,155251E+23	2,664238E+23
-1870	7,544903E+22	7,544761E+22	5,776198E+22	5,776039E+22	1,508966E+23	1,155224E+23	2,664190E+23
-1869	7,544756E+22	7,544824E+22	5,776182E+22	5,776168E+22	1,508958E+23	1,155235E+23	2,664193E+23
-1868	7,545083E+22	7,544920E+22	5,776026E+22	5,776142E+22	1,509000E+23	1,155217E+23	2,664217E+23
-1867	7,544721E+22	7,544875E+22	5,776138E+22	5,776025E+22	1,508960E+23	1,155216E+23	2,664176E+23
-1866	7,544775E+22	7,544960E+22	5,776136E+22	5,776203E+22	1,508974E+23	1,155234E+23	2,664207E+23
-1865	7,545014E+22	7,544877E+22	5,776126E+22	5,776100E+22	1,508989E+23	1,155223E+23	2,664212E+23
-1864	7,544631E+22	7,544797E+22	5,776308E+22	5,776146E+22	1,508943E+23	1,155245E+23	2,664188E+23
-1863	7,544932E+22	7,544892E+22	5,776261E+22	5,776352E+22	1,508982E+23	1,155261E+23	2,664244E+23
-1862	7,544922E+22	7,544800E+22	5,776312E+22	5,776254E+22	1,508972E+23	1,155257E+23	2,664229E+23
-1861	7,544635E+22	7,544824E+22	5,776399E+22	5,776438E+22	1,508946E+23	1,155284E+23	2,664230E+23
-1860	7,545016E+22	7,544920E+22	5,776339E+22	5,776511E+22	1,508994E+23	1,155285E+23	2,664279E+23
-1859	7,544795E+22	7,544802E+22	5,776499E+22	5,776354E+22	1,508960E+23	1,155285E+23	2,664245E+23
-1858	7,544765E+22	7,544874E+22	5,776536E+22	5,776504E+22	1,508964E+23	1,155304E+23	2,664268E+23
-1857	7,545078E+22	7,544888E+22	5,776457E+22	5,776473E+22	1,508997E+23	1,155293E+23	2,664290E+23
-1856	7,544617E+22	7,544812E+22	5,776560E+22	5,776435E+22	1,508943E+23	1,155299E+23	2,664242E+23
-1855	7,544784E+22	7,544933E+22	5,776458E+22	5,776566E+22	1,508972E+23	1,155302E+23	2,664274E+23
-1854	7,544923E+22	7,544826E+22	5,776399E+22	5,776364E+22	1,508975E+23	1,155276E+23	2,664251E+23
-1853	7,544616E+22	7,544750E+22	5,776412E+22	5,776345E+22	1,508937E+23	1,155276E+23	2,664212E+23
-1852	7,545029E+22	7,544859E+22	5,776269E+22	5,776367E+22	1,508989E+23	1,155264E+23	2,664252E+23
-1851	7,544887E+22	7,544776E+22	5,776291E+22	5,776150E+22	1,508966E+23	1,155244E+23	2,664210E+23
-1850	7,544684E+22	7,544888E+22	5,776256E+22	5,776250E+22	1,508957E+23	1,155251E+23	2,664208E+23
-1849	7,545041E+22	7,544966E+22	5,776144E+22	5,776261E+22	1,509001E+23	1,155240E+23	2,664241E+23
-1848	7,544643E+22	7,544808E+22	5,776285E+22	5,776155E+22	1,508945E+23	1,155244E+23	2,664189E+23
-1847	7,544739E+22	7,544890E+22	5,776302E+22	5,776292E+22	1,508963E+23	1,155259E+23	2,664222E+23
-1846	7,545012E+22	7,544807E+22	5,776293E+22	5,776232E+22	1,508982E+23	1,155253E+23	2,664234E+23
-1845	7,544619E+22	7,544712E+22	5,776385E+22	5,776315E+22	1,508933E+23	1,155270E+23	2,664203E+23
-1844	7,544911E+22	7,544874E+22	5,776338E+22	5,776511E+22	1,508979E+23	1,155285E+23	2,664263E+23
-1843	7,544868E+22	7,544796E+22	5,776420E+22	5,776417E+22	1,508966E+23	1,155284E+23	2,664250E+23
-1842	7,544612E+22	7,544828E+22	5,776511E+22	5,776503E+22	1,508944E+23	1,155301E+23	2,664245E+23
-1841	7,545054E+22	7,544912E+22	5,776488E+22	5,776588E+22	1,508997E+23	1,155308E+23	2,664304E+23
-1840	7,544761E+22	7,544751E+22	5,776653E+22	5,776475E+22	1,508951E+23	1,155313E+23	2,664264E+23
-1839	7,544702E+22	7,544882E+22	5,776670E+22	5,776617E+22	1,508958E+23	1,155329E+23	2,664287E+23
-1838	7,544997E+22	7,544895E+22	5,776586E+22	5,776619E+22	1,508989E+23	1,155321E+23	2,664310E+23
-1837	7,544570E+22	7,544743E+22	5,776631E+22	5,776573E+22	1,508931E+23	1,155320E+23	2,664252E+23
-1836	7,544793E+22	7,544859E+22	5,776554E+22	5,776642E+22	1,508965E+23	1,155320E+23	2,664285E+23
-1835	7,544931E+22	7,544764E+22	5,776514E+22	5,776454E+22	1,508970E+23	1,155297E+23	2,664266E+23
-1834	7,544639E+22	7,544736E+22	5,776486E+22	5,776392E+22	1,508938E+23	1,155288E+23	2,664225E+23
-1833	7,545033E+22	7,544888E+22	5,776337E+22	5,776468E+22	1,508992E+23	1,155280E+23	2,664273E+23
-1832	7,544789E+22	7,544778E+22	5,776372E+22	5,776292E+22	1,508957E+23	1,155266E+23	2,664223E+23
-1831	7,544602E+22	7,544887E+22	5,776366E+22	5,776333E+22	1,508949E+23	1,155270E+23	2,664219E+23
-1830	7,544988E+22	7,544921E+22	5,776303E+22	5,776346E+22	1,508991E+23	1,155265E+23	2,664256E+23
-1829	7,544648E+22	7,544693E+22	5,776399E+22	5,776263E+22	1,508934E+23	1,155266E+23	2,664200E+23
-1828	7,544759E+22	7,544805E+22	5,776424E+22	5,776406E+22	1,508956E+23	1,155283E+23	2,664239E+23
-1827	7,544966E+22	7,544795E+22	5,776405E+22	5,776414E+22	1,508976E+23	1,155282E+23	2,664258E+23
-1826	7,544572E+22	7,544742E+22	5,776457E+22	5,776445E+22	1,508931E+23	1,155290E+23	2,664222E+23
-1825	7,544905E+22	7,544904E+22	5,776446E+22	5,776644E+22	1,508981E+23	1,155309E+23	2,664290E+23

1	14	15	16	17	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							
-1824	7,544829E+22	7,544762E+22	5,776573E+22	5,776538E+22	1,508959E+23	1,155311E+23	2,664270E+23
-1823	7,544604E+22	7,544799E+22	5,776691E+22	5,776570E+22	1,508940E+23	1,155326E+23	2,664266E+23
-1822	7,545035E+22	7,544888E+22	5,776680E+22	5,776701E+22	1,508992E+23	1,155338E+23	2,664330E+23
-1821	7,544709E+22	7,544693E+22	5,776756E+22	5,776642E+22	1,508940E+23	1,155340E+23	2,664280E+23
-1820	7,544637E+22	7,544840E+22	5,776767E+22	5,776769E+22	1,508948E+23	1,155354E+23	2,664301E+23
-1819	7,544927E+22	7,544853E+22	5,776689E+22	5,776772E+22	1,508978E+23	1,155346E+23	2,664324E+23
-1818	7,544567E+22	7,544687E+22	5,776700E+22	5,776623E+22	1,508925E+23	1,155332E+23	2,664258E+23
-1817	7,544867E+22	7,544824E+22	5,776632E+22	5,776702E+22	1,508969E+23	1,155333E+23	2,664303E+23
-1816	7,544927E+22	7,544727E+22	5,776595E+22	5,776539E+22	1,508965E+23	1,155313E+23	2,664279E+23
-1815	7,544588E+22	7,544782E+22	5,776571E+22	5,776458E+22	1,508937E+23	1,155303E+23	2,664240E+23
-1814	7,544955E+22	7,544939E+22	5,776460E+22	5,776566E+22	1,508989E+23	1,155303E+23	2,664292E+23
-1813	7,544719E+22	7,544735E+22	5,776471E+22	5,776409E+22	1,508945E+23	1,155288E+23	2,664233E+23
-1812	7,544573E+22	7,544811E+22	5,776511E+22	5,776424E+22	1,508938E+23	1,155293E+23	2,664232E+23
-1811	7,544959E+22	7,544840E+22	5,776456E+22	5,776480E+22	1,508980E+23	1,155294E+23	2,664274E+23
-1810	7,544642E+22	7,544637E+22	5,776493E+22	5,776377E+22	1,508928E+23	1,155287E+23	2,664215E+23
-1809	7,544764E+22	7,544804E+22	5,776493E+22	5,776573E+22	1,508957E+23	1,155307E+23	2,664263E+23
-1808	7,544892E+22	7,544778E+22	5,776494E+22	5,776590E+22	1,508967E+23	1,155308E+23	2,664275E+23
-1807	7,544538E+22	7,544751E+22	5,776582E+22	5,776533E+22	1,508929E+23	1,155312E+23	2,664240E+23
-1806	7,544903E+22	7,544889E+22	5,776630E+22	5,776715E+22	1,508979E+23	1,155335E+23	2,664314E+23
-1805	7,544844E+22	7,544692E+22	5,776723E+22	5,776641E+22	1,508954E+23	1,155336E+23	2,664290E+23
-1804	7,544600E+22	7,544756E+22	5,776851E+22	5,776687E+22	1,508936E+23	1,155354E+23	2,664289E+23
-1803	7,544937E+22	7,544893E+22	5,776821E+22	5,776886E+22	1,508983E+23	1,155371E+23	2,664354E+23
-1802	7,544638E+22	7,544693E+22	5,776844E+22	5,776784E+22	1,508933E+23	1,155363E+23	2,664296E+23
-1801	7,544622E+22	7,544811E+22	5,776851E+22	5,776899E+22	1,508943E+23	1,155375E+23	2,664318E+23
-1800	7,544892E+22	7,544776E+22	5,776796E+22	5,776880E+22	1,508967E+23	1,155368E+23	2,664334E+23
-1799	7,544594E+22	7,544648E+22	5,776801E+22	5,776662E+22	1,508924E+23	1,155346E+23	2,664271E+23
-1798	7,544868E+22	7,544818E+22	5,776744E+22	5,776773E+22	1,508969E+23	1,155352E+23	2,664320E+23
-1797	7,544879E+22	7,544720E+22	5,776645E+22	5,776659E+22	1,508960E+23	1,155330E+23	2,664290E+23
-1796	7,544528E+22	7,544768E+22	5,776660E+22	5,776558E+22	1,508930E+23	1,155322E+23	2,664251E+23
-1795	7,544860E+22	7,544915E+22	5,776588E+22	5,776679E+22	1,508977E+23	1,155327E+23	2,664304E+23
-1794	7,544701E+22	7,544669E+22	5,776577E+22	5,776470E+22	1,508937E+23	1,155305E+23	2,664242E+23
-1793	7,544612E+22	7,544746E+22	5,776615E+22	5,776528E+22	1,508936E+23	1,155314E+23	2,664250E+23
-1792	7,544922E+22	7,544783E+22	5,776563E+22	5,776633E+22	1,508971E+23	1,155320E+23	2,664290E+23
-1791	7,544606E+22	7,544658E+22	5,776582E+22	5,776496E+22	1,508926E+23	1,155308E+23	2,664234E+23
-1790	7,544730E+22	7,544836E+22	5,776623E+22	5,776701E+22	1,508957E+23	1,155332E+23	2,664289E+23
-1789	7,544869E+22	7,544748E+22	5,776612E+22	5,776714E+22	1,508962E+23	1,155333E+23	2,664294E+23
-1788	7,544547E+22	7,544701E+22	5,776766E+22	5,776622E+22	1,508925E+23	1,155339E+23	2,664264E+23
-1787	7,544872E+22	7,544856E+22	5,776829E+22	5,776848E+22	1,508973E+23	1,155368E+23	2,664341E+23
-1786	7,544805E+22	7,544662E+22	5,776852E+22	5,776776E+22	1,508947E+23	1,155363E+23	2,664310E+23
-1785	7,544552E+22	7,544756E+22	5,776942E+22	5,776881E+22	1,508931E+23	1,155382E+23	2,664313E+23
-1784	7,544826E+22	7,544843E+22	5,776914E+22	5,777071E+22	1,508967E+23	1,155398E+23	2,664365E+23
-1783	7,544596E+22	7,544650E+22	5,776938E+22	5,776870E+22	1,508925E+23	1,155381E+23	2,664305E+23
-1782	7,544651E+22	7,544763E+22	5,776975E+22	5,776956E+22	1,508941E+23	1,155393E+23	2,664334E+23
-1781	7,544929E+22	7,544700E+22	5,776874E+22	5,776950E+22	1,508963E+23	1,155382E+23	2,664345E+23
-1780	7,544612E+22	7,544633E+22	5,776899E+22	5,776728E+22	1,508925E+23	1,155363E+23	2,664287E+23
-1779	7,544788E+22	7,544862E+22	5,776845E+22	5,776884E+22	1,508965E+23	1,155373E+23	2,664338E+23
-1778	7,544807E+22	7,544740E+22	5,776723E+22	5,776743E+22	1,508955E+23	1,155347E+23	2,664301E+23
-1777	7,544501E+22	7,544753E+22	5,776759E+22	5,776664E+22	1,508925E+23	1,155342E+23	2,664268E+23
-1776	7,544793E+22	7,544830E+22	5,776727E+22	5,776790E+22	1,508962E+23	1,155352E+23	2,664314E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,544699E+22	7,544608E+22	5,776705E+22	5,776556E+22	1,508931E+23	1,155326E+23	2,664257E+23
-1774	7,544609E+22	7,544715E+22	5,776733E+22	5,776657E+22	1,508932E+23	1,155339E+23	2,664271E+23
-1773	7,544882E+22	7,544749E+22	5,776621E+22	5,776803E+22	1,508963E+23	1,155342E+23	2,664306E+23
-1772	7,544592E+22	7,544635E+22	5,776684E+22	5,776620E+22	1,508923E+23	1,155330E+23	2,664253E+23
-1771	7,544682E+22	7,544828E+22	5,776769E+22	5,776810E+22	1,508951E+23	1,155358E+23	2,664309E+23
-1770	7,544883E+22	7,544718E+22	5,776748E+22	5,776784E+22	1,508960E+23	1,155353E+23	2,664313E+23
-1769	7,544577E+22	7,544672E+22	5,776903E+22	5,776743E+22	1,508925E+23	1,155365E+23	2,664290E+23
-1768	7,544771E+22	7,544830E+22	5,776978E+22	5,777022E+22	1,508960E+23	1,155400E+23	2,664360E+23
-1767	7,544722E+22	7,544678E+22	5,776972E+22	5,776928E+22	1,508940E+23	1,155390E+23	2,664330E+23
-1766	7,544492E+22	7,544738E+22	5,777075E+22	5,777029E+22	1,508923E+23	1,155410E+23	2,664333E+23
-1765	7,544799E+22	7,544761E+22	5,777011E+22	5,777200E+22	1,508956E+23	1,155421E+23	2,664377E+23
-1764	7,544648E+22	7,544558E+22	5,777065E+22	5,776935E+22	1,508921E+23	1,155400E+23	2,664321E+23
-1763	7,544661E+22	7,544729E+22	5,777101E+22	5,777040E+22	1,508939E+23	1,155414E+23	2,664353E+23
-1762	7,544924E+22	7,544705E+22	5,776939E+22	5,777029E+22	1,508963E+23	1,155397E+23	2,664360E+23
-1761	7,544577E+22	7,544671E+22	5,776954E+22	5,776854E+22	1,508925E+23	1,155381E+23	2,664306E+23
-1760	7,544661E+22	7,544850E+22	5,776948E+22	5,777007E+22	1,508951E+23	1,155396E+23	2,664347E+23
-1759	7,544751E+22	7,544711E+22	5,776840E+22	5,776802E+22	1,508946E+23	1,155364E+23	2,664310E+23
-1758	7,544509E+22	7,544686E+22	5,776903E+22	5,776739E+22	1,508920E+23	1,155364E+23	2,664284E+23
-1757	7,544797E+22	7,544732E+22	5,776815E+22	5,776908E+22	1,508953E+23	1,155372E+23	2,664325E+23
-1756	7,544706E+22	7,544566E+22	5,776801E+22	5,776679E+22	1,508927E+23	1,155348E+23	2,664275E+23
-1755	7,544556E+22	7,544747E+22	5,776827E+22	5,776809E+22	1,508930E+23	1,155364E+23	2,664294E+23
-1754	7,544853E+22	7,544755E+22	5,776699E+22	5,776905E+22	1,508961E+23	1,155360E+23	2,664321E+23
-1753	7,544602E+22	7,544640E+22	5,776798E+22	5,776729E+22	1,508924E+23	1,155353E+23	2,664277E+23
-1752	7,544633E+22	7,544777E+22	5,776943E+22	5,776917E+22	1,508941E+23	1,155386E+23	2,664327E+23
-1751	7,544852E+22	7,544691E+22	5,776915E+22	5,776887E+22	1,508954E+23	1,155380E+23	2,664334E+23
-1750	7,544531E+22	7,544661E+22	5,777062E+22	5,776911E+22	1,508919E+23	1,155397E+23	2,664316E+23
-1749	7,544678E+22	7,544773E+22	5,777071E+22	5,777220E+22	1,508945E+23	1,155429E+23	2,664374E+23
-1748	7,544692E+22	7,544602E+22	5,777092E+22	5,777070E+22	1,508929E+23	1,155416E+23	2,664346E+23
-1747	7,544478E+22	7,544682E+22	5,777201E+22	5,777134E+22	1,508916E+23	1,155433E+23	2,664349E+23
-1746	7,544851E+22	7,544695E+22	5,777101E+22	5,777252E+22	1,508955E+23	1,155435E+23	2,664390E+23
-1745	7,544712E+22	7,544558E+22	5,777140E+22	5,777020E+22	1,508927E+23	1,155416E+23	2,664343E+23
-1744	7,544587E+22	7,544752E+22	5,777203E+22	5,777151E+22	1,508934E+23	1,155435E+23	2,664369E+23
-1743	7,544842E+22	7,544769E+22	5,777039E+22	5,777119E+22	1,508961E+23	1,155416E+23	2,664377E+23
-1742	7,544510E+22	7,544685E+22	5,777091E+22	5,776959E+22	1,508919E+23	1,155405E+23	2,664324E+23
-1741	7,544589E+22	7,544771E+22	5,777064E+22	5,777119E+22	1,508936E+23	1,155418E+23	2,664354E+23
-1740	7,544770E+22	7,544597E+22	5,776980E+22	5,776892E+22	1,508937E+23	1,155387E+23	2,664324E+23
-1739	7,544495E+22	7,544619E+22	5,777014E+22	5,776861E+22	1,508911E+23	1,155388E+23	2,664299E+23
-1738	7,544793E+22	7,544701E+22	5,776855E+22	5,777035E+22	1,508949E+23	1,155389E+23	2,664338E+23
-1737	7,544706E+22	7,544580E+22	5,776823E+22	5,776820E+22	1,508929E+23	1,155364E+23	2,664293E+23
-1736	7,544473E+22	7,544734E+22	5,776926E+22	5,776918E+22	1,508921E+23	1,155384E+23	2,664305E+23
-1735	7,544835E+22	7,544754E+22	5,776835E+22	5,776952E+22	1,508959E+23	1,155379E+23	2,664338E+23
-1734	7,544618E+22	7,544609E+22	5,776981E+22	5,776809E+22	1,508923E+23	1,155379E+23	2,664302E+23
-1733	7,544587E+22	7,544716E+22	5,777092E+22	5,777059E+22	1,508930E+23	1,155415E+23	2,664345E+23
-1732	7,544815E+22	7,544648E+22	5,777066E+22	5,777047E+22	1,508946E+23	1,155411E+23	2,664358E+23
-1731	7,544448E+22	7,544651E+22	5,777199E+22	5,777094E+22	1,508910E+23	1,155429E+23	2,664339E+23
-1730	7,544651E+22	7,544724E+22	5,777167E+22	5,777355E+22	1,508937E+23	1,155452E+23	2,664390E+23
-1729	7,544728E+22	7,544566E+22	5,777188E+22	5,777189E+22	1,508929E+23	1,155438E+23	2,664367E+23
-1728	7,544469E+22	7,544632E+22	5,777339E+22	5,777234E+22	1,508910E+23	1,155457E+23	2,664367E+23
-1727	7,544852E+22	7,544704E+22	5,777221E+22	5,777327E+22	1,508956E+23	1,155455E+23	2,664410E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1726	7,544676E+22	7,544604E+22	5,777259E+22	5,777146E+22	1,508928E+23	1,155441E+23	2,664369E+23
-1725	7,544479E+22	7,544741E+22	5,777287E+22	5,777292E+22	1,508922E+23	1,155458E+23	2,664380E+23
-1724	7,544786E+22	7,544710E+22	5,777164E+22	5,777214E+22	1,508950E+23	1,155438E+23	2,664387E+23
-1723	7,544476E+22	7,544620E+22	5,777225E+22	5,777048E+22	1,508910E+23	1,155427E+23	2,664337E+23
-1722	7,544615E+22	7,544661E+22	5,777142E+22	5,777184E+22	1,508928E+23	1,155433E+23	2,664360E+23
-1721	7,544807E+22	7,544561E+22	5,777028E+22	5,777004E+22	1,508937E+23	1,155403E+23	2,664340E+23
-1720	7,544437E+22	7,544619E+22	5,777079E+22	5,776988E+22	1,508906E+23	1,155407E+23	2,664312E+23
-1719	7,544743E+22	7,544741E+22	5,776927E+22	5,777120E+22	1,508948E+23	1,155405E+23	2,664353E+23
-1718	7,544685E+22	7,544612E+22	5,776952E+22	5,776911E+22	1,508930E+23	1,155386E+23	2,664316E+23
-1717	7,544431E+22	7,544679E+22	5,777070E+22	5,777008E+22	1,508911E+23	1,155408E+23	2,664319E+23
-1716	7,544846E+22	7,544673E+22	5,777028E+22	5,777041E+22	1,508952E+23	1,155407E+23	2,664359E+23
-1715	7,544574E+22	7,544573E+22	5,777157E+22	5,776965E+22	1,508915E+23	1,155412E+23	2,664327E+23
-1714	7,544525E+22	7,544674E+22	5,777190E+22	5,777239E+22	1,508920E+23	1,155443E+23	2,664363E+23
-1713	7,544773E+22	7,544634E+22	5,777139E+22	5,777244E+22	1,508941E+23	1,155438E+23	2,664379E+23
-1712	7,544378E+22	7,544597E+22	5,777315E+22	5,777243E+22	1,508898E+23	1,155456E+23	2,664353E+23
-1711	7,544666E+22	7,544689E+22	5,777290E+22	5,777425E+22	1,508936E+23	1,155472E+23	2,664407E+23
-1710	7,544782E+22	7,544555E+22	5,777330E+22	5,777271E+22	1,508934E+23	1,155460E+23	2,664394E+23
-1709	7,544439E+22	7,544615E+22	5,777454E+22	5,777350E+22	1,508905E+23	1,155480E+23	2,664386E+23
-1708	7,544818E+22	7,544710E+22	5,777354E+22	5,777442E+22	1,508953E+23	1,155480E+23	2,664432E+23
-1707	7,544580E+22	7,544622E+22	5,777393E+22	5,777273E+22	1,508920E+23	1,155467E+23	2,664387E+23
-1706	7,544420E+22	7,544689E+22	5,777385E+22	5,777390E+22	1,508911E+23	1,155477E+23	2,664388E+23
-1705	7,544793E+22	7,544641E+22	5,777247E+22	5,777308E+22	1,508943E+23	1,155455E+23	2,664399E+23
-1704	7,544445E+22	7,544522E+22	5,777334E+22	5,777145E+22	1,508897E+23	1,155448E+23	2,664345E+23
-1703	7,544610E+22	7,544634E+22	5,777215E+22	5,777270E+22	1,508924E+23	1,155448E+23	2,664373E+23
-1702	7,544788E+22	7,544585E+22	5,777095E+22	5,777128E+22	1,508937E+23	1,155422E+23	2,664360E+23
-1701	7,544364E+22	7,544606E+22	5,777141E+22	5,777107E+22	1,508897E+23	1,155425E+23	2,664322E+23
-1700	7,544733E+22	7,544699E+22	5,777057E+22	5,777182E+22	1,508943E+23	1,155424E+23	2,664367E+23
-1699	7,544668E+22	7,544585E+22	5,777118E+22	5,776982E+22	1,508925E+23	1,155410E+23	2,664335E+23
-1698	7,544437E+22	7,544614E+22	5,777203E+22	5,777101E+22	1,508905E+23	1,155430E+23	2,664336E+23
-1697	7,544826E+22	7,544664E+22	5,777136E+22	5,777199E+22	1,508949E+23	1,155434E+23	2,664383E+23
-1696	7,544467E+22	7,544567E+22	5,777288E+22	5,777161E+22	1,508903E+23	1,155445E+23	2,664348E+23
-1695	7,544457E+22	7,544673E+22	5,777307E+22	5,777389E+22	1,508913E+23	1,155470E+23	2,664383E+23
-1694	7,544759E+22	7,544626E+22	5,777283E+22	5,777387E+22	1,508938E+23	1,155467E+23	2,664405E+23
-1693	7,544374E+22	7,544523E+22	5,777451E+22	5,777359E+22	1,508890E+23	1,155481E+23	2,664371E+23
-1692	7,544712E+22	7,544616E+22	5,777454E+22	5,777512E+22	1,508933E+23	1,155497E+23	2,664429E+23
-1691	7,544761E+22	7,544568E+22	5,777477E+22	5,777397E+22	1,508933E+23	1,155487E+23	2,664420E+23
-1690	7,544387E+22	7,544604E+22	5,777531E+22	5,777480E+22	1,508899E+23	1,155501E+23	2,664400E+23
-1689	7,544751E+22	7,544709E+22	5,777428E+22	5,777572E+22	1,508946E+23	1,155500E+23	2,664446E+23
-1688	7,544494E+22	7,544565E+22	5,777516E+22	5,777378E+22	1,508906E+23	1,155489E+23	2,664395E+23
-1687	7,544405E+22	7,544616E+22	5,777494E+22	5,777439E+22	1,508902E+23	1,155493E+23	2,664395E+23
-1686	7,544816E+22	7,544603E+22	5,777350E+22	5,777396E+22	1,508942E+23	1,155475E+23	2,664417E+23
-1685	7,544415E+22	7,544479E+22	5,777394E+22	5,777260E+22	1,508889E+23	1,155465E+23	2,664355E+23
-1684	7,544598E+22	7,544623E+22	5,777296E+22	5,777370E+22	1,508922E+23	1,155467E+23	2,664389E+23
-1683	7,544733E+22	7,544621E+22	5,777202E+22	5,777226E+22	1,508935E+23	1,155443E+23	2,664378E+23
-1682	7,544341E+22	7,544578E+22	5,777243E+22	5,777183E+22	1,508892E+23	1,155443E+23	2,664334E+23
-1681	7,544737E+22	7,544671E+22	5,777184E+22	5,777267E+22	1,508941E+23	1,155445E+23	2,664386E+23
-1680	7,544617E+22	7,544531E+22	5,777286E+22	5,777113E+22	1,508915E+23	1,155440E+23	2,664355E+23
-1679	7,544379E+22	7,544598E+22	5,777332E+22	5,777250E+22	1,508898E+23	1,155458E+23	2,664356E+23
-1678	7,544760E+22	7,544677E+22	5,777248E+22	5,777396E+22	1,508944E+23	1,155464E+23	2,664408E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,544383E+22	7,544506E+22	5,777390E+22	5,777339E+22	1,508889E+23	1,155473E+23	2,664362E+23
-1676	7,544482E+22	7,544585E+22	5,777451E+22	5,777495E+22	1,508907E+23	1,155495E+23	2,664401E+23
-1675	7,544786E+22	7,544575E+22	5,777441E+22	5,777468E+22	1,508936E+23	1,155491E+23	2,664427E+23
-1674	7,544415E+22	7,544474E+22	5,777564E+22	5,777448E+22	1,508889E+23	1,155501E+23	2,664390E+23
-1673	7,544710E+22	7,544640E+22	5,777547E+22	5,777630E+22	1,508935E+23	1,155518E+23	2,664453E+23
-1672	7,544650E+22	7,544593E+22	5,777606E+22	5,777544E+22	1,508924E+23	1,155515E+23	2,664439E+23
-1671	7,544296E+22	7,544619E+22	5,777654E+22	5,777589E+22	1,508892E+23	1,155524E+23	2,664416E+23
-1670	7,544699E+22	7,544692E+22	5,777563E+22	5,777682E+22	1,508939E+23	1,155525E+23	2,664464E+23
-1669	7,544456E+22	7,544458E+22	5,777637E+22	5,777486E+22	1,508891E+23	1,155512E+23	2,664404E+23
-1668	7,544440E+22	7,544510E+22	5,777611E+22	5,777530E+22	1,508895E+23	1,155514E+23	2,664409E+23
-1667	7,544789E+22	7,544595E+22	5,777438E+22	5,777516E+22	1,508938E+23	1,155495E+23	2,664434E+23
-1666	7,544389E+22	7,544471E+22	5,777418E+22	5,777377E+22	1,508886E+23	1,155480E+23	2,664366E+23
-1665	7,544575E+22	7,544635E+22	5,777342E+22	5,777457E+22	1,508921E+23	1,155480E+23	2,664401E+23
-1664	7,544683E+22	7,544602E+22	5,777331E+22	5,777300E+22	1,508929E+23	1,155463E+23	2,664392E+23
-1663	7,544336E+22	7,544546E+22	5,777382E+22	5,777233E+22	1,508888E+23	1,155462E+23	2,664350E+23
-1662	7,544716E+22	7,544670E+22	5,777333E+22	5,777385E+22	1,508939E+23	1,155472E+23	2,664410E+23
-1661	7,544538E+22	7,544494E+22	5,777409E+22	5,777289E+22	1,508903E+23	1,155470E+23	2,664373E+23
-1660	7,544335E+22	7,544546E+22	5,777462E+22	5,777411E+22	1,508888E+23	1,155487E+23	2,664375E+23
-1659	7,544706E+22	7,544661E+22	5,777390E+22	5,777545E+22	1,508937E+23	1,155494E+23	2,664430E+23
-1658	7,544404E+22	7,544426E+22	5,777490E+22	5,777447E+22	1,508883E+23	1,155494E+23	2,664377E+23
-1657	7,544530E+22	7,544533E+22	5,777565E+22	5,777585E+22	1,508906E+23	1,155515E+23	2,664421E+23
-1656	7,544768E+22	7,544556E+22	5,777596E+22	5,777592E+22	1,508932E+23	1,155519E+23	2,664451E+23
-1655	7,544364E+22	7,544501E+22	5,777685E+22	5,777575E+22	1,508887E+23	1,155526E+23	2,664412E+23
-1654	7,544618E+22	7,544696E+22	5,777666E+22	5,777789E+22	1,508931E+23	1,155546E+23	2,664477E+23
-1653	7,544542E+22	7,544542E+22	5,777727E+22	5,777692E+22	1,508908E+23	1,155542E+23	2,664450E+23
-1652	7,544287E+22	7,544511E+22	5,777798E+22	5,777677E+22	1,508880E+23	1,155548E+23	2,664427E+23
-1651	7,544696E+22	7,544623E+22	5,777700E+22	5,777764E+22	1,508932E+23	1,155546E+23	2,664478E+23
-1650	7,544487E+22	7,544381E+22	5,777695E+22	5,777585E+22	1,508887E+23	1,155528E+23	2,664415E+23
-1649	7,544450E+22	7,544517E+22	5,777645E+22	5,777639E+22	1,508897E+23	1,155528E+23	2,664425E+23
-1648	7,544720E+22	7,544622E+22	5,777519E+22	5,777630E+22	1,508934E+23	1,155515E+23	2,664449E+23
-1647	7,544346E+22	7,544501E+22	5,777512E+22	5,777443E+22	1,508885E+23	1,155495E+23	2,664380E+23
-1646	7,544552E+22	7,544655E+22	5,777474E+22	5,777523E+22	1,508921E+23	1,155500E+23	2,664420E+23
-1645	7,544642E+22	7,544525E+22	5,777482E+22	5,777396E+22	1,508917E+23	1,155488E+23	2,664405E+23
-1644	7,544342E+22	7,544462E+22	5,777542E+22	5,777354E+22	1,508880E+23	1,155490E+23	2,664370E+23
-1643	7,544639E+22	7,544649E+22	5,777462E+22	5,777545E+22	1,508929E+23	1,155501E+23	2,664430E+23
-1642	7,544484E+22	7,544436E+22	5,777472E+22	5,777464E+22	1,508892E+23	1,155494E+23	2,664386E+23
-1641	7,544332E+22	7,544496E+22	5,777532E+22	5,777539E+22	1,508883E+23	1,155507E+23	2,664390E+23
-1640	7,544691E+22	7,544600E+22	5,777526E+22	5,777648E+22	1,508929E+23	1,155517E+23	2,664447E+23
-1639	7,544439E+22	7,544407E+22	5,777619E+22	5,777517E+22	1,508885E+23	1,155514E+23	2,664398E+23
-1638	7,544531E+22	7,544579E+22	5,777698E+22	5,777699E+22	1,508911E+23	1,155540E+23	2,664451E+23
-1637	7,544681E+22	7,544569E+22	5,777731E+22	5,777755E+22	1,508925E+23	1,155549E+23	2,664474E+23
-1636	7,544303E+22	7,544488E+22	5,777842E+22	5,777723E+22	1,508879E+23	1,155557E+23	2,664436E+23
-1635	7,544519E+22	7,544686E+22	5,777838E+22	5,777919E+22	1,508921E+23	1,155576E+23	2,664496E+23
-1634	7,544529E+22	7,544443E+22	5,777842E+22	5,777811E+22	1,508897E+23	1,155565E+23	2,664463E+23
-1633	7,544328E+22	7,544414E+22	5,777894E+22	5,777773E+22	1,508874E+23	1,155567E+23	2,664441E+23
-1632	7,544683E+22	7,544571E+22	5,777804E+22	5,777889E+22	1,508925E+23	1,155569E+23	2,664495E+23
-1631	7,544468E+22	7,544400E+22	5,777740E+22	5,777690E+22	1,508887E+23	1,155543E+23	2,664430E+23
-1630	7,544405E+22	7,544580E+22	5,777698E+22	5,777745E+22	1,508898E+23	1,155544E+23	2,664443E+23
-1629	7,544660E+22	7,544598E+22	5,777617E+22	5,777715E+22	1,508926E+23	1,155533E+23	2,664459E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,544359E+22	7,544427E+22	5,777656E+22	5,777484E+22	1,508879E+23	1,155514E+23	2,664393E+23
-1627	7,544520E+22	7,544622E+22	5,777638E+22	5,777587E+22	1,508914E+23	1,155522E+23	2,664437E+23
-1626	7,544627E+22	7,544458E+22	5,777570E+22	5,777523E+22	1,508909E+23	1,155509E+23	2,664418E+23
-1625	7,544303E+22	7,544432E+22	5,777612E+22	5,777505E+22	1,508873E+23	1,155512E+23	2,664385E+23
-1624	7,544554E+22	7,544632E+22	5,777573E+22	5,777713E+22	1,508919E+23	1,155529E+23	2,664447E+23
-1623	7,544456E+22	7,544419E+22	5,777569E+22	5,777577E+22	1,508887E+23	1,155515E+23	2,664402E+23
-1622	7,544346E+22	7,544499E+22	5,777653E+22	5,777640E+22	1,508885E+23	1,155529E+23	2,664414E+23
-1621	7,544688E+22	7,544538E+22	5,777678E+22	5,777764E+22	1,508923E+23	1,155544E+23	2,664467E+23
-1620	7,544449E+22	7,544374E+22	5,777782E+22	5,777644E+22	1,508882E+23	1,155543E+23	2,664425E+23
-1619	7,544438E+22	7,544619E+22	5,777856E+22	5,777851E+22	1,508906E+23	1,155571E+23	2,664476E+23
-1618	7,544606E+22	7,544532E+22	5,777835E+22	5,777924E+22	1,508914E+23	1,155576E+23	2,664490E+23
-1617	7,544279E+22	7,544418E+22	5,777961E+22	5,777848E+22	1,508870E+23	1,155581E+23	2,664451E+23
-1616	7,544489E+22	7,544594E+22	5,777991E+22	5,778027E+22	1,508908E+23	1,155602E+23	2,664510E+23
-1615	7,544554E+22	7,544386E+22	5,777944E+22	5,777895E+22	1,508894E+23	1,155584E+23	2,664478E+23
-1614	7,544345E+22	7,544441E+22	5,777961E+22	5,777886E+22	1,508879E+23	1,155585E+23	2,664463E+23
-1613	7,544623E+22	7,544568E+22	5,777878E+22	5,778017E+22	1,508919E+23	1,155589E+23	2,664509E+23
-1612	7,544449E+22	7,544409E+22	5,777842E+22	5,777778E+22	1,508886E+23	1,155562E+23	2,664448E+23
-1611	7,544345E+22	7,544596E+22	5,777836E+22	5,777794E+22	1,508894E+23	1,155563E+23	2,664457E+23
-1610	7,544643E+22	7,544525E+22	5,777726E+22	5,777784E+22	1,508917E+23	1,155551E+23	2,664468E+23
-1609	7,544375E+22	7,544348E+22	5,777773E+22	5,777572E+22	1,508872E+23	1,155535E+23	2,664407E+23
-1608	7,544443E+22	7,544572E+22	5,777764E+22	5,777738E+22	1,508901E+23	1,155550E+23	2,664452E+23
-1607	7,544555E+22	7,544454E+22	5,777634E+22	5,777681E+22	1,508901E+23	1,155531E+23	2,664432E+23
-1606	7,544259E+22	7,544447E+22	5,777667E+22	5,777655E+22	1,508871E+23	1,155532E+23	2,664403E+23
-1605	7,544519E+22	7,544558E+22	5,777680E+22	5,777832E+22	1,508908E+23	1,155551E+23	2,664459E+23
-1604	7,544514E+22	7,544352E+22	5,777711E+22	5,777645E+22	1,508887E+23	1,155536E+23	2,664422E+23
-1603	7,544351E+22	7,544499E+22	5,777825E+22	5,777713E+22	1,508885E+23	1,155554E+23	2,664439E+23
-1602	7,544675E+22	7,544524E+22	5,777800E+22	5,777903E+22	1,508920E+23	1,155570E+23	2,664490E+23
-1601	7,544408E+22	7,544380E+22	5,777913E+22	5,777798E+22	1,508879E+23	1,155571E+23	2,664450E+23
-1600	7,544324E+22	7,544614E+22	5,778028E+22	5,778022E+22	1,508894E+23	1,155605E+23	2,664499E+23
-1599	7,544553E+22	7,544497E+22	5,777972E+22	5,778051E+22	1,508905E+23	1,155602E+23	2,664507E+23
-1598	7,544282E+22	7,544378E+22	5,778085E+22	5,777970E+22	1,508866E+23	1,155605E+23	2,664472E+23
-1597	7,544488E+22	7,544492E+22	5,778122E+22	5,778160E+22	1,508898E+23	1,155628E+23	2,664526E+23
-1596	7,544572E+22	7,544341E+22	5,778039E+22	5,778013E+22	1,508891E+23	1,155605E+23	2,664497E+23
-1595	7,544279E+22	7,544487E+22	5,778049E+22	5,777994E+22	1,508877E+23	1,155604E+23	2,664481E+23
-1594	7,544584E+22	7,544544E+22	5,777928E+22	5,778118E+22	1,508913E+23	1,155605E+23	2,664517E+23
-1593	7,544441E+22	7,544359E+22	5,777936E+22	5,777827E+22	1,508880E+23	1,155576E+23	2,664456E+23
-1592	7,544302E+22	7,544545E+22	5,777983E+22	5,777858E+22	1,508885E+23	1,155584E+23	2,664469E+23
-1591	7,544622E+22	7,544488E+22	5,777827E+22	5,777860E+22	1,508911E+23	1,155569E+23	2,664480E+23
-1590	7,544339E+22	7,544367E+22	5,777847E+22	5,777711E+22	1,508871E+23	1,155556E+23	2,664426E+23
-1589	7,544358E+22	7,544528E+22	5,777857E+22	5,777904E+22	1,508889E+23	1,155576E+23	2,664465E+23
-1588	7,544530E+22	7,544419E+22	5,777741E+22	5,777805E+22	1,508895E+23	1,155555E+23	2,664450E+23
-1587	7,544233E+22	7,544443E+22	5,777807E+22	5,777734E+22	1,508868E+23	1,155554E+23	2,664422E+23
-1586	7,544555E+22	7,544477E+22	5,777796E+22	5,777923E+22	1,508903E+23	1,155572E+23	2,664475E+23
-1585	7,544562E+22	7,544301E+22	5,777853E+22	5,777744E+22	1,508886E+23	1,155560E+23	2,664446E+23
-1584	7,544284E+22	7,544503E+22	5,777991E+22	5,777870E+22	1,508879E+23	1,155586E+23	2,664465E+23
-1583	7,544581E+22	7,544552E+22	5,777917E+22	5,778069E+22	1,508913E+23	1,155599E+23	2,664512E+23
-1582	7,544344E+22	7,544397E+22	5,778031E+22	5,777969E+22	1,508874E+23	1,155600E+23	2,664474E+23
-1581	7,544259E+22	7,544506E+22	5,778186E+22	5,778166E+22	1,508877E+23	1,155635E+23	2,664512E+23
-1580	7,544580E+22	7,544406E+22	5,778120E+22	5,778154E+22	1,508899E+23	1,155627E+23	2,664526E+23

1	14	15	16	17	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							
-1579	7,544289E+22	7,544354E+22	5,778212E+22	5,778061E+22	1,508864E+23	1,155627E+23	2,664492E+23
-1578	7,544481E+22	7,544456E+22	5,778180E+22	5,778293E+22	1,508894E+23	1,155647E+23	2,664541E+23
-1577	7,544559E+22	7,544353E+22	5,778113E+22	5,778121E+22	1,508891E+23	1,155623E+23	2,664515E+23
-1576	7,544198E+22	7,544502E+22	5,778176E+22	5,778090E+22	1,508870E+23	1,155627E+23	2,664497E+23
-1575	7,544539E+22	7,544539E+22	5,778038E+22	5,778172E+22	1,508908E+23	1,155621E+23	2,664529E+23
-1574	7,544440E+22	7,544344E+22	5,778048E+22	5,777903E+22	1,508878E+23	1,155595E+23	2,664473E+23
-1573	7,544251E+22	7,544450E+22	5,778118E+22	5,777981E+22	1,508870E+23	1,155610E+23	2,664480E+23
-1572	7,544579E+22	7,544453E+22	5,777922E+22	5,777998E+22	1,508903E+23	1,155592E+23	2,664495E+23
-1571	7,544259E+22	7,544378E+22	5,777935E+22	5,777843E+22	1,508864E+23	1,155578E+23	2,664442E+23
-1570	7,544338E+22	7,544452E+22	5,777916E+22	5,778032E+22	1,508879E+23	1,155595E+23	2,664474E+23
-1569	7,544574E+22	7,544341E+22	5,777847E+22	5,777871E+22	1,508892E+23	1,155572E+23	2,664463E+23
-1568	7,544241E+22	7,544408E+22	5,777965E+22	5,777811E+22	1,508865E+23	1,155578E+23	2,664442E+23
-1567	7,544555E+22	7,544486E+22	5,777916E+22	5,778014E+22	1,508904E+23	1,155593E+23	2,664497E+23
-1566	7,544519E+22	7,544371E+22	5,777965E+22	5,777901E+22	1,508889E+23	1,155587E+23	2,664476E+23
-1565	7,544172E+22	7,544489E+22	5,778153E+22	5,778063E+22	1,508866E+23	1,155622E+23	2,664488E+23
-1564	7,544508E+22	7,544520E+22	5,778077E+22	5,778218E+22	1,508903E+23	1,155629E+23	2,664532E+23
-1563	7,544288E+22	7,544359E+22	5,778208E+22	5,778088E+22	1,508865E+23	1,155630E+23	2,664494E+23
-1562	7,544285E+22	7,544374E+22	5,778304E+22	5,778301E+22	1,508866E+23	1,155661E+23	2,664526E+23
-1561	7,544621E+22	7,544316E+22	5,778232E+22	5,778274E+22	1,508894E+23	1,155651E+23	2,664544E+23
-1560	7,544242E+22	7,544361E+22	5,778316E+22	5,778206E+22	1,508860E+23	1,155652E+23	2,664513E+23
-1559	7,544428E+22	7,544486E+22	5,778233E+22	5,778402E+22	1,508891E+23	1,155663E+23	2,664555E+23
-1558	7,544528E+22	7,544391E+22	5,778187E+22	5,778209E+22	1,508892E+23	1,155640E+23	2,664532E+23
-1557	7,544154E+22	7,544428E+22	5,778320E+22	5,778163E+22	1,508858E+23	1,155648E+23	2,664506E+23
-1556	7,544530E+22	7,544482E+22	5,778180E+22	5,778225E+22	1,508901E+23	1,155640E+23	2,664542E+23
-1555	7,544399E+22	7,544338E+22	5,778182E+22	5,777992E+22	1,508874E+23	1,155617E+23	2,664491E+23
-1554	7,544209E+22	7,544388E+22	5,778181E+22	5,778134E+22	1,508860E+23	1,155632E+23	2,664491E+23
-1553	7,544554E+22	7,544412E+22	5,778004E+22	5,778129E+22	1,508897E+23	1,155613E+23	2,664510E+23
-1552	7,544210E+22	7,544362E+22	5,778049E+22	5,777957E+22	1,508857E+23	1,155601E+23	2,664458E+23
-1551	7,544341E+22	7,544429E+22	5,778008E+22	5,778102E+22	1,508877E+23	1,155611E+23	2,664488E+23
-1550	7,544618E+22	7,544349E+22	5,777956E+22	5,777962E+22	1,508897E+23	1,155592E+23	2,664489E+23
-1549	7,544204E+22	7,544357E+22	5,778122E+22	5,777950E+22	1,508856E+23	1,155607E+23	2,664463E+23
-1548	7,544476E+22	7,544508E+22	5,778054E+22	5,778165E+22	1,508898E+23	1,155622E+23	2,664520E+23
-1547	7,544414E+22	7,544400E+22	5,778112E+22	5,778056E+22	1,508881E+23	1,155617E+23	2,664498E+23
-1546	7,544114E+22	7,544382E+22	5,778272E+22	5,778226E+22	1,508850E+23	1,155650E+23	2,664499E+23
-1545	7,544525E+22	7,544404E+22	5,778226E+22	5,778326E+22	1,508893E+23	1,155655E+23	2,664548E+23
-1544	7,544294E+22	7,544285E+22	5,778360E+22	5,778204E+22	1,508858E+23	1,155656E+23	2,664514E+23
-1543	7,544299E+22	7,544355E+22	5,778384E+22	5,778415E+22	1,508865E+23	1,155680E+23	2,664545E+23
-1542	7,544615E+22	7,544379E+22	5,778296E+22	5,778409E+22	1,508899E+23	1,155671E+23	2,664570E+23
-1541	7,544169E+22	7,544362E+22	5,778442E+22	5,778340E+22	1,508853E+23	1,155678E+23	2,664531E+23
-1540	7,544372E+22	7,544503E+22	5,778370E+22	5,778474E+22	1,508888E+23	1,155684E+23	2,664572E+23
-1539	7,544483E+22	7,544392E+22	5,778353E+22	5,778266E+22	1,508888E+23	1,155662E+23	2,664549E+23
-1538	7,544150E+22	7,544311E+22	5,778444E+22	5,778272E+22	1,508846E+23	1,155672E+23	2,664518E+23
-1537	7,544517E+22	7,544396E+22	5,778293E+22	5,778343E+22	1,508891E+23	1,155664E+23	2,664555E+23
-1536	7,544315E+22	7,544323E+22	5,778273E+22	5,778156E+22	1,508864E+23	1,155643E+23	2,664507E+23
-1535	7,544163E+22	7,544370E+22	5,778209E+22	5,778263E+22	1,508853E+23	1,155647E+23	2,664501E+23
-1534	7,544556E+22	7,544406E+22	5,778053E+22	5,778223E+22	1,508896E+23	1,155628E+23	2,664524E+23
-1533	7,544218E+22	7,544291E+22	5,778174E+22	5,778034E+22	1,508851E+23	1,155621E+23	2,664472E+23
-1532	7,544360E+22	7,544412E+22	5,778131E+22	5,778147E+22	1,508877E+23	1,155628E+23	2,664505E+23
-1531	7,544574E+22	7,544396E+22	5,778101E+22	5,778056E+22	1,508897E+23	1,155616E+23	2,664513E+23

1	14	15	16	17	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							
-1530	7,544141E+22	7,544326E+22	5,778237E+22	5,778124E+22	1,508847E+23	1,155636E+23	2,664483E+23
-1529	7,544404E+22	7,544461E+22	5,778206E+22	5,778315E+22	1,508887E+23	1,155652E+23	2,664539E+23
-1528	7,544333E+22	7,544359E+22	5,778288E+22	5,778212E+22	1,508869E+23	1,155650E+23	2,664519E+23
-1527	7,544118E+22	7,544296E+22	5,778391E+22	5,778343E+22	1,508841E+23	1,155673E+23	2,664515E+23
-1526	7,544572E+22	7,544357E+22	5,778333E+22	5,778455E+22	1,508893E+23	1,155679E+23	2,664572E+23
-1525	7,544283E+22	7,544231E+22	5,778489E+22	5,778363E+22	1,508851E+23	1,155685E+23	2,664537E+23
-1524	7,544250E+22	7,544397E+22	5,778478E+22	5,778544E+22	1,508865E+23	1,155702E+23	2,664567E+23
-1523	7,544546E+22	7,544443E+22	5,778422E+22	5,778517E+22	1,508899E+23	1,155694E+23	2,664593E+23
-1522	7,544139E+22	7,544290E+22	5,778562E+22	5,778447E+22	1,508843E+23	1,155701E+23	2,664544E+23
-1521	7,544371E+22	7,544418E+22	5,778529E+22	5,778533E+22	1,508879E+23	1,155706E+23	2,664585E+23
-1520	7,544450E+22	7,544347E+22	5,778503E+22	5,778368E+22	1,508880E+23	1,155687E+23	2,664567E+23
-1519	7,544117E+22	7,544277E+22	5,778505E+22	5,778397E+22	1,508839E+23	1,155690E+23	2,664530E+23
-1518	7,544487E+22	7,544420E+22	5,778331E+22	5,778492E+22	1,508891E+23	1,155682E+23	2,664573E+23
-1517	7,544257E+22	7,544275E+22	5,778361E+22	5,778291E+22	1,508853E+23	1,155665E+23	2,664518E+23
-1516	7,544139E+22	7,544366E+22	5,778297E+22	5,778323E+22	1,508851E+23	1,155662E+23	2,664513E+23
-1515	7,544567E+22	7,544407E+22	5,778184E+22	5,778261E+22	1,508897E+23	1,155645E+23	2,664542E+23
-1514	7,544239E+22	7,544200E+22	5,778290E+22	5,778131E+22	1,508844E+23	1,155642E+23	2,664486E+23
-1513	7,544333E+22	7,544377E+22	5,778271E+22	5,778257E+22	1,508871E+23	1,155653E+23	2,664524E+23
-1512	7,544467E+22	7,544413E+22	5,778238E+22	5,778226E+22	1,508888E+23	1,155646E+23	2,664534E+23
-1511	7,544070E+22	7,544287E+22	5,778331E+22	5,778281E+22	1,508836E+23	1,155661E+23	2,664497E+23
-1510	7,544389E+22	7,544416E+22	5,778314E+22	5,778448E+22	1,508881E+23	1,155676E+23	2,664557E+23
-1509	7,544331E+22	7,544245E+22	5,778449E+22	5,778345E+22	1,508858E+23	1,155679E+23	2,664537E+23
-1508	7,544136E+22	7,544271E+22	5,778512E+22	5,778446E+22	1,508841E+23	1,155696E+23	2,664536E+23
-1507	7,544555E+22	7,544404E+22	5,778461E+22	5,778579E+22	1,508896E+23	1,155704E+23	2,664600E+23
-1506	7,544250E+22	7,544220E+22	5,778590E+22	5,778530E+22	1,508847E+23	1,155712E+23	2,664559E+23
-1505	7,544207E+22	7,544388E+22	5,778626E+22	5,778651E+22	1,508859E+23	1,155728E+23	2,664587E+23
-1504	7,544474E+22	7,544443E+22	5,778599E+22	5,778628E+22	1,508892E+23	1,155723E+23	2,664614E+23
-1503	7,544133E+22	7,544222E+22	5,778686E+22	5,778543E+22	1,508836E+23	1,155723E+23	2,664558E+23
-1502	7,544367E+22	7,544366E+22	5,778628E+22	5,778648E+22	1,508873E+23	1,155728E+23	2,664601E+23
-1501	7,544388E+22	7,544280E+22	5,778608E+22	5,778535E+22	1,508867E+23	1,155714E+23	2,664581E+23
-1500	7,544054E+22	7,544278E+22	5,778545E+22	5,778517E+22	1,508833E+23	1,155706E+23	2,664539E+23
-1499	7,544440E+22	7,544425E+22	5,778404E+22	5,778576E+22	1,508887E+23	1,155698E+23	2,664585E+23
-1498	7,544276E+22	7,544182E+22	5,778434E+22	5,778366E+22	1,508846E+23	1,155680E+23	2,664526E+23
-1497	7,544184E+22	7,544290E+22	5,778423E+22	5,778341E+22	1,508847E+23	1,155676E+23	2,664524E+23
-1496	7,544548E+22	7,544410E+22	5,778327E+22	5,778338E+22	1,508896E+23	1,155667E+23	2,664562E+23
-1495	7,544205E+22	7,544204E+22	5,778376E+22	5,778255E+22	1,508841E+23	1,155663E+23	2,664504E+23
-1494	7,544262E+22	7,544411E+22	5,778367E+22	5,778412E+22	1,508867E+23	1,155678E+23	2,664545E+23
-1493	7,544370E+22	7,544367E+22	5,778397E+22	5,778404E+22	1,508874E+23	1,155680E+23	2,664554E+23
-1492	7,544023E+22	7,544254E+22	5,778468E+22	5,778397E+22	1,508828E+23	1,155687E+23	2,664514E+23
-1491	7,544399E+22	7,544374E+22	5,778478E+22	5,778560E+22	1,508877E+23	1,155704E+23	2,664581E+23
-1490	7,544363E+22	7,544139E+22	5,778570E+22	5,778506E+22	1,508850E+23	1,155708E+23	2,664558E+23
-1489	7,544132E+22	7,544247E+22	5,778638E+22	5,778587E+22	1,508838E+23	1,155723E+23	2,664560E+23
-1488	7,544480E+22	7,544450E+22	5,778591E+22	5,778741E+22	1,508893E+23	1,155733E+23	2,664626E+23
-1487	7,544208E+22	7,544207E+22	5,778688E+22	5,778654E+22	1,508841E+23	1,155734E+23	2,664576E+23
-1486	7,544198E+22	7,544370E+22	5,778751E+22	5,778739E+22	1,508857E+23	1,155749E+23	2,664606E+23
-1485	7,544450E+22	7,544346E+22	5,778764E+22	5,778731E+22	1,508880E+23	1,155749E+23	2,664629E+23
-1484	7,544099E+22	7,544195E+22	5,778793E+22	5,778635E+22	1,508829E+23	1,155743E+23	2,664572E+23
-1483	7,544319E+22	7,544380E+22	5,778725E+22	5,778768E+22	1,508870E+23	1,155749E+23	2,664619E+23
-1482	7,544342E+22	7,544215E+22	5,778667E+22	5,778687E+22	1,508856E+23	1,155735E+23	2,664591E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,544038E+22	7,544237E+22	5,778639E+22	5,778592E+22	1,508828E+23	1,155723E+23	2,664551E+23
-1480	7,544421E+22	7,544412E+22	5,778525E+22	5,778638E+22	1,508883E+23	1,155716E+23	2,664600E+23
-1479	7,544312E+22	7,544130E+22	5,778520E+22	5,778423E+22	1,508844E+23	1,155694E+23	2,664538E+23
-1478	7,544194E+22	7,544286E+22	5,778519E+22	5,778429E+22	1,508848E+23	1,155695E+23	2,664543E+23
-1477	7,544456E+22	7,544396E+22	5,778458E+22	5,778500E+22	1,508885E+23	1,155696E+23	2,664581E+23
-1476	7,544098E+22	7,544234E+22	5,778473E+22	5,778403E+22	1,508833E+23	1,155688E+23	2,664521E+23
-1475	7,544187E+22	7,544397E+22	5,778507E+22	5,778545E+22	1,508858E+23	1,155705E+23	2,664564E+23
-1474	7,544363E+22	7,544236E+22	5,778526E+22	5,778548E+22	1,508860E+23	1,155707E+23	2,664567E+23
-1473	7,544071E+22	7,544152E+22	5,778613E+22	5,778488E+22	1,508822E+23	1,155710E+23	2,664532E+23
-1472	7,544394E+22	7,544363E+22	5,778619E+22	5,778694E+22	1,508876E+23	1,155731E+23	2,664607E+23
-1471	7,544364E+22	7,544150E+22	5,778649E+22	5,778659E+22	1,508851E+23	1,155731E+23	2,664582E+23
-1470	7,544101E+22	7,544288E+22	5,778739E+22	5,778721E+22	1,508839E+23	1,155746E+23	2,664585E+23
-1469	7,544398E+22	7,544433E+22	5,778768E+22	5,778880E+22	1,508883E+23	1,155765E+23	2,664648E+23
-1468	7,544162E+22	7,544196E+22	5,778841E+22	5,778736E+22	1,508836E+23	1,155758E+23	2,664594E+23
-1467	7,544172E+22	7,544325E+22	5,778924E+22	5,778831E+22	1,508850E+23	1,155775E+23	2,664625E+23
-1466	7,544422E+22	7,544235E+22	5,778879E+22	5,778893E+22	1,508866E+23	1,155777E+23	2,664643E+23
-1465	7,544063E+22	7,544138E+22	5,778882E+22	5,778771E+22	1,508820E+23	1,155765E+23	2,664585E+23
-1464	7,544247E+22	7,544377E+22	5,778806E+22	5,778906E+22	1,508862E+23	1,155771E+23	2,664634E+23
-1463	7,544344E+22	7,544167E+22	5,778707E+22	5,778774E+22	1,508851E+23	1,155748E+23	2,664599E+23
-1462	7,544076E+22	7,544213E+22	5,778711E+22	5,778628E+22	1,508829E+23	1,155734E+23	2,664563E+23
-1461	7,544415E+22	7,544369E+22	5,778660E+22	5,778705E+22	1,508878E+23	1,155737E+23	2,664615E+23
-1460	7,544270E+22	7,544171E+22	5,778620E+22	5,778496E+22	1,508844E+23	1,155712E+23	2,664556E+23
-1459	7,544114E+22	7,544341E+22	5,778647E+22	5,778555E+22	1,508846E+23	1,155720E+23	2,664566E+23
-1458	7,544363E+22	7,544341E+22	5,778575E+22	5,778678E+22	1,508870E+23	1,155725E+23	2,664596E+23
-1457	7,544052E+22	7,544166E+22	5,778624E+22	5,778528E+22	1,508822E+23	1,155715E+23	2,664537E+23
-1456	7,544167E+22	7,544334E+22	5,778669E+22	5,778668E+22	1,508850E+23	1,155734E+23	2,664584E+23
-1455	7,544411E+22	7,544133E+22	5,778628E+22	5,778671E+22	1,508854E+23	1,155730E+23	2,664584E+23
-1454	7,544108E+22	7,544137E+22	5,778705E+22	5,778618E+22	1,508825E+23	1,155732E+23	2,664557E+23
-1453	7,544336E+22	7,544362E+22	5,778740E+22	5,778864E+22	1,508870E+23	1,155760E+23	2,664630E+23
-1452	7,544279E+22	7,544205E+22	5,778753E+22	5,778782E+22	1,508848E+23	1,155753E+23	2,664602E+23
-1451	7,544050E+22	7,544302E+22	5,778905E+22	5,778823E+22	1,508835E+23	1,155773E+23	2,664608E+23
-1450	7,544366E+22	7,544320E+22	5,778933E+22	5,778999E+22	1,508869E+23	1,155793E+23	2,664662E+23
-1449	7,544163E+22	7,544108E+22	5,779010E+22	5,778831E+22	1,508827E+23	1,155784E+23	2,664611E+23
-1448	7,544122E+22	7,544298E+22	5,779059E+22	5,778974E+22	1,508842E+23	1,155803E+23	2,664645E+23
-1447	7,544389E+22	7,544204E+22	5,778928E+22	5,779051E+22	1,508859E+23	1,155798E+23	2,664657E+23
-1446	7,544045E+22	7,544146E+22	5,778932E+22	5,778889E+22	1,508819E+23	1,155782E+23	2,664601E+23
-1445	7,544204E+22	7,544345E+22	5,778918E+22	5,779008E+22	1,508855E+23	1,155793E+23	2,664648E+23
-1444	7,544336E+22	7,544179E+22	5,778805E+22	5,778810E+22	1,508851E+23	1,155761E+23	2,664613E+23
-1443	7,544087E+22	7,544209E+22	5,778851E+22	5,778683E+22	1,508830E+23	1,155753E+23	2,664583E+23
-1442	7,544365E+22	7,544311E+22	5,778778E+22	5,778838E+22	1,508868E+23	1,155762E+23	2,664629E+23
-1441	7,544202E+22	7,544154E+22	5,778736E+22	5,778629E+22	1,508836E+23	1,155736E+23	2,664572E+23
-1440	7,544008E+22	7,544324E+22	5,778774E+22	5,778708E+22	1,508833E+23	1,155748E+23	2,664581E+23
-1439	7,544347E+22	7,544249E+22	5,778662E+22	5,778807E+22	1,508860E+23	1,155747E+23	2,664606E+23
-1438	7,544101E+22	7,544080E+22	5,778718E+22	5,778610E+22	1,508818E+23	1,155733E+23	2,664551E+23
-1437	7,544177E+22	7,544258E+22	5,778804E+22	5,778788E+22	1,508844E+23	1,155759E+23	2,664603E+23
-1436	7,544396E+22	7,544175E+22	5,778716E+22	5,778776E+22	1,508857E+23	1,155749E+23	2,664606E+23
-1435	7,544063E+22	7,544202E+22	5,778835E+22	5,778750E+22	1,508827E+23	1,155759E+23	2,664585E+23
-1434	7,544253E+22	7,544344E+22	5,778889E+22	5,779025E+22	1,508860E+23	1,155791E+23	2,664651E+23
-1433	7,544233E+22	7,544174E+22	5,778941E+22	5,778890E+22	1,508841E+23	1,155783E+23	2,664624E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,544002E+22	7,544254E+22	5,779108E+22	5,778947E+22	1,508826E+23	1,155806E+23	2,664631E+23
-1431	7,544365E+22	7,544218E+22	5,779057E+22	5,779144E+22	1,508858E+23	1,155820E+23	2,664678E+23
-1430	7,544155E+22	7,544066E+22	5,779097E+22	5,778987E+22	1,508822E+23	1,155808E+23	2,664630E+23
-1429	7,544047E+22	7,544268E+22	5,779149E+22	5,779159E+22	1,508832E+23	1,155831E+23	2,664662E+23
-1428	7,544331E+22	7,544226E+22	5,778982E+22	5,779152E+22	1,508856E+23	1,155813E+23	2,664669E+23
-1427	7,544055E+22	7,544147E+22	5,779038E+22	5,778944E+22	1,508820E+23	1,155798E+23	2,664618E+23
-1426	7,544216E+22	7,544261E+22	5,779034E+22	5,779067E+22	1,508848E+23	1,155810E+23	2,664658E+23
-1425	7,544348E+22	7,544149E+22	5,778939E+22	5,778855E+22	1,508850E+23	1,155779E+23	2,664629E+23
-1424	7,544029E+22	7,544230E+22	5,778986E+22	5,778796E+22	1,508826E+23	1,155778E+23	2,664604E+23
-1423	7,544291E+22	7,544283E+22	5,778850E+22	5,778980E+22	1,508857E+23	1,155783E+23	2,664641E+23
-1422	7,544153E+22	7,544133E+22	5,778827E+22	5,778758E+22	1,508829E+23	1,155759E+23	2,664587E+23
-1421	7,543957E+22	7,544243E+22	5,778905E+22	5,778840E+22	1,508820E+23	1,155775E+23	2,664595E+23
-1420	7,544337E+22	7,544204E+22	5,778765E+22	5,778885E+22	1,508854E+23	1,155765E+23	2,664619E+23
-1419	7,544137E+22	7,544059E+22	5,778842E+22	5,778713E+22	1,508820E+23	1,155756E+23	2,664575E+23
-1418	7,544145E+22	7,544213E+22	5,778907E+22	5,778948E+22	1,508836E+23	1,155786E+23	2,664621E+23
-1417	7,544342E+22	7,544196E+22	5,778839E+22	5,778915E+22	1,508854E+23	1,155775E+23	2,664629E+23
-1416	7,543984E+22	7,544217E+22	5,778999E+22	5,778893E+22	1,508820E+23	1,155789E+23	2,664609E+23
-1415	7,544220E+22	7,544272E+22	5,779028E+22	5,779145E+22	1,508849E+23	1,155817E+23	2,664666E+23
-1414	7,544250E+22	7,544107E+22	5,779091E+22	5,778994E+22	1,508836E+23	1,155809E+23	2,664644E+23
-1413	7,543968E+22	7,544178E+22	5,779268E+22	5,779106E+22	1,508815E+23	1,155837E+23	2,664652E+23
-1412	7,544309E+22	7,544232E+22	5,779145E+22	5,779285E+22	1,508854E+23	1,155843E+23	2,664697E+23
-1411	7,544126E+22	7,544091E+22	5,779193E+22	5,779132E+22	1,508822E+23	1,155832E+23	2,664654E+23
-1410	7,544001E+22	7,544219E+22	5,779249E+22	5,779296E+22	1,508822E+23	1,155854E+23	2,664677E+23
-1409	7,544337E+22	7,544199E+22	5,779114E+22	5,779208E+22	1,508854E+23	1,155832E+23	2,664686E+23
-1408	7,544055E+22	7,544121E+22	5,779196E+22	5,779002E+22	1,508818E+23	1,155820E+23	2,664637E+23
-1407	7,544221E+22	7,544203E+22	5,779133E+22	5,779154E+22	1,508842E+23	1,155829E+23	2,664671E+23
-1406	7,544317E+22	7,544139E+22	5,779016E+22	5,778967E+22	1,508846E+23	1,155798E+23	2,664644E+23
-1405	7,543913E+22	7,544203E+22	5,779083E+22	5,778965E+22	1,508812E+23	1,155805E+23	2,664616E+23
-1404	7,544200E+22	7,544276E+22	5,778920E+22	5,779087E+22	1,508848E+23	1,155801E+23	2,664648E+23
-1403	7,544154E+22	7,544081E+22	5,778936E+22	5,778847E+22	1,508823E+23	1,155778E+23	2,664602E+23
-1402	7,543970E+22	7,544131E+22	5,779014E+22	5,778945E+22	1,508810E+23	1,155796E+23	2,664606E+23
-1401	7,544366E+22	7,544170E+22	5,778881E+22	5,778969E+22	1,508854E+23	1,155785E+23	2,664639E+23
-1400	7,544103E+22	7,544099E+22	5,778971E+22	5,778844E+22	1,508820E+23	1,155781E+23	2,664602E+23
-1399	7,544098E+22	7,544218E+22	5,779003E+22	5,779092E+22	1,508832E+23	1,155810E+23	2,664641E+23
-1398	7,544304E+22	7,544203E+22	5,778979E+22	5,779039E+22	1,508851E+23	1,155802E+23	2,664653E+23
-1397	7,543923E+22	7,544164E+22	5,779196E+22	5,779043E+22	1,508809E+23	1,155824E+23	2,664633E+23
-1396	7,544180E+22	7,544229E+22	5,779187E+22	5,779253E+22	1,508841E+23	1,155844E+23	2,664685E+23
-1395	7,544254E+22	7,544067E+22	5,779245E+22	5,779150E+22	1,508832E+23	1,155840E+23	2,664672E+23
-1394	7,543915E+22	7,544107E+22	5,779370E+22	5,779304E+22	1,508802E+23	1,155867E+23	2,664670E+23
-1393	7,544264E+22	7,544218E+22	5,779243E+22	5,779428E+22	1,508848E+23	1,155867E+23	2,664715E+23
-1392	7,544103E+22	7,544087E+22	5,779315E+22	5,779240E+22	1,508819E+23	1,155855E+23	2,664674E+23
-1391	7,544028E+22	7,544142E+22	5,779334E+22	5,779354E+22	1,508817E+23	1,155869E+23	2,664686E+23
-1390	7,544380E+22	7,544163E+22	5,779222E+22	5,779247E+22	1,508854E+23	1,155847E+23	2,664701E+23
-1389	7,544018E+22	7,544099E+22	5,779320E+22	5,779109E+22	1,508812E+23	1,155843E+23	2,664655E+23
-1388	7,544114E+22	7,544244E+22	5,779208E+22	5,779253E+22	1,508836E+23	1,155846E+23	2,664682E+23
-1387	7,544244E+22	7,544165E+22	5,779113E+22	5,779106E+22	1,508841E+23	1,155822E+23	2,664663E+23
-1386	7,543835E+22	7,544118E+22	5,779186E+22	5,779109E+22	1,508795E+23	1,155829E+23	2,664625E+23
-1385	7,544194E+22	7,544202E+22	5,779044E+22	5,779166E+22	1,508840E+23	1,155821E+23	2,664661E+23
-1384	7,544182E+22	7,544021E+22	5,779072E+22	5,778936E+22	1,508820E+23	1,155801E+23	2,664621E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,544000E+22	7,544065E+22	5,779087E+22	5,779059E+22	1,508806E+23	1,155815E+23	2,664621E+23
-1382	7,544358E+22	7,544188E+22	5,778962E+22	5,779095E+22	1,508855E+23	1,155806E+23	2,664660E+23
-1381	7,544019E+22	7,544111E+22	5,779100E+22	5,779011E+22	1,508813E+23	1,155811E+23	2,664624E+23
-1380	7,544015E+22	7,544233E+22	5,779137E+22	5,779190E+22	1,508825E+23	1,155833E+23	2,664657E+23
-1379	7,544302E+22	7,544168E+22	5,779153E+22	5,779149E+22	1,508847E+23	1,155830E+23	2,664677E+23
-1378	7,543902E+22	7,544050E+22	5,779367E+22	5,779195E+22	1,508795E+23	1,155856E+23	2,664651E+23
-1377	7,544167E+22	7,544185E+22	5,779336E+22	5,779394E+22	1,508835E+23	1,155873E+23	2,664708E+23
-1376	7,544206E+22	7,544069E+22	5,779377E+22	5,779320E+22	1,508827E+23	1,155870E+23	2,664697E+23
-1375	7,543889E+22	7,544076E+22	5,779443E+22	5,779461E+22	1,508796E+23	1,155890E+23	2,664687E+23
-1374	7,544270E+22	7,544198E+22	5,779343E+22	5,779519E+22	1,508847E+23	1,155886E+23	2,664733E+23
-1373	7,544080E+22	7,544051E+22	5,779458E+22	5,779335E+22	1,508813E+23	1,155879E+23	2,664692E+23
-1372	7,544007E+22	7,544139E+22	5,779449E+22	5,779400E+22	1,508815E+23	1,155885E+23	2,664699E+23
-1371	7,544364E+22	7,544168E+22	5,779337E+22	5,779355E+22	1,508853E+23	1,155869E+23	2,664722E+23
-1370	7,543915E+22	7,544058E+22	5,779413E+22	5,779279E+22	1,508797E+23	1,155869E+23	2,664667E+23
-1369	7,544024E+22	7,544219E+22	5,779301E+22	5,779374E+22	1,508824E+23	1,155868E+23	2,664692E+23
-1368	7,544198E+22	7,544114E+22	5,779234E+22	5,779208E+22	1,508831E+23	1,155844E+23	2,664675E+23
-1367	7,543871E+22	7,544002E+22	5,779255E+22	5,779185E+22	1,508787E+23	1,155844E+23	2,664631E+23
-1366	7,544261E+22	7,544134E+22	5,779132E+22	5,779225E+22	1,508840E+23	1,155836E+23	2,664675E+23
-1365	7,544173E+22	7,544020E+22	5,779177E+22	5,779061E+22	1,508819E+23	1,155824E+23	2,664643E+23
-1364	7,543936E+22	7,544131E+22	5,779168E+22	5,779155E+22	1,508807E+23	1,155832E+23	2,664639E+23
-1363	7,544311E+22	7,544244E+22	5,779095E+22	5,779229E+22	1,508855E+23	1,155832E+23	2,664688E+23
-1362	7,543941E+22	7,544063E+22	5,779272E+22	5,779165E+22	1,508800E+23	1,155844E+23	2,664644E+23
-1361	7,543973E+22	7,544176E+22	5,779331E+22	5,779300E+22	1,508815E+23	1,155863E+23	2,664678E+23
-1360	7,544290E+22	7,544105E+22	5,779351E+22	5,779298E+22	1,508839E+23	1,155865E+23	2,664704E+23
-1359	7,543898E+22	7,543950E+22	5,779462E+22	5,779373E+22	1,508785E+23	1,155884E+23	2,664668E+23
-1358	7,544143E+22	7,544153E+22	5,779418E+22	5,779562E+22	1,508830E+23	1,155898E+23	2,664728E+23
-1357	7,544149E+22	7,544056E+22	5,779475E+22	5,779492E+22	1,508821E+23	1,155897E+23	2,664717E+23
-1356	7,543856E+22	7,544073E+22	5,779532E+22	5,779525E+22	1,508793E+23	1,155906E+23	2,664699E+23
-1355	7,544305E+22	7,544189E+22	5,779474E+22	5,779582E+22	1,508849E+23	1,155906E+23	2,664755E+23
-1354	7,544060E+22	7,543992E+22	5,779597E+22	5,779433E+22	1,508805E+23	1,155903E+23	2,664708E+23
-1353	7,543953E+22	7,544143E+22	5,779579E+22	5,779490E+22	1,508810E+23	1,155907E+23	2,664716E+23
-1352	7,544277E+22	7,544185E+22	5,779465E+22	5,779489E+22	1,508846E+23	1,155895E+23	2,664742E+23
-1351	7,543857E+22	7,543991E+22	5,779486E+22	5,779417E+22	1,508785E+23	1,155890E+23	2,664675E+23
-1350	7,544018E+22	7,544146E+22	5,779401E+22	5,779463E+22	1,508816E+23	1,155886E+23	2,664703E+23
-1349	7,544196E+22	7,544039E+22	5,779354E+22	5,779311E+22	1,508824E+23	1,155867E+23	2,664690E+23
-1348	7,543888E+22	7,543976E+22	5,779335E+22	5,779243E+22	1,508786E+23	1,155858E+23	2,664644E+23
-1347	7,544278E+22	7,544159E+22	5,779216E+22	5,779341E+22	1,508844E+23	1,155856E+23	2,664699E+23
-1346	7,544088E+22	7,544025E+22	5,779275E+22	5,779227E+22	1,508811E+23	1,155850E+23	2,664662E+23
-1345	7,543859E+22	7,544150E+22	5,779306E+22	5,779269E+22	1,508801E+23	1,155857E+23	2,664658E+23
-1344	7,544254E+22	7,544212E+22	5,779281E+22	5,779336E+22	1,508847E+23	1,155862E+23	2,664708E+23
-1343	7,543943E+22	7,543949E+22	5,779414E+22	5,779290E+22	1,508789E+23	1,155870E+23	2,664660E+23
-1342	7,543994E+22	7,544084E+22	5,779472E+22	5,779424E+22	1,508808E+23	1,155890E+23	2,664697E+23
-1341	7,544233E+22	7,544072E+22	5,779477E+22	5,779489E+22	1,508831E+23	1,155897E+23	2,664727E+23
-1340	7,543839E+22	7,543977E+22	5,779536E+22	5,779514E+22	1,508782E+23	1,155905E+23	2,664687E+23
-1339	7,544132E+22	7,544173E+22	5,779522E+22	5,779702E+22	1,508831E+23	1,155922E+23	2,664753E+23
-1338	7,544111E+22	7,544017E+22	5,779619E+22	5,779616E+22	1,508813E+23	1,155923E+23	2,664736E+23
-1337	7,543857E+22	7,544048E+22	5,779698E+22	5,779581E+22	1,508791E+23	1,155928E+23	2,664718E+23
-1336	7,544290E+22	7,544166E+22	5,779657E+22	5,779671E+22	1,508846E+23	1,155933E+23	2,664778E+23
-1335	7,544018E+22	7,543940E+22	5,779693E+22	5,779579E+22	1,508796E+23	1,155927E+23	2,664723E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,543883E+22	7,544109E+22	5,779669E+22	5,779630E+22	1,508799E+23	1,155930E+23	2,664729E+23
-1333	7,544184E+22	7,544145E+22	5,779564E+22	5,779644E+22	1,508833E+23	1,155921E+23	2,664754E+23
-1332	7,543836E+22	7,543936E+22	5,779553E+22	5,779476E+22	1,508777E+23	1,155903E+23	2,664680E+23
-1331	7,544080E+22	7,544096E+22	5,779487E+22	5,779533E+22	1,508818E+23	1,155902E+23	2,664720E+23
-1330	7,544201E+22	7,543990E+22	5,779450E+22	5,779415E+22	1,508819E+23	1,155887E+23	2,664706E+23
-1329	7,543854E+22	7,544016E+22	5,779433E+22	5,779326E+22	1,508787E+23	1,155876E+23	2,664663E+23
-1328	7,544208E+22	7,544218E+22	5,779355E+22	5,779458E+22	1,508843E+23	1,155881E+23	2,664724E+23
-1327	7,544031E+22	7,543988E+22	5,779387E+22	5,779358E+22	1,508802E+23	1,155875E+23	2,664676E+23
-1326	7,543823E+22	7,544081E+22	5,779469E+22	5,779374E+22	1,508790E+23	1,155884E+23	2,664675E+23
-1325	7,544211E+22	7,544135E+22	5,779456E+22	5,779485E+22	1,508835E+23	1,155894E+23	2,664729E+23
-1324	7,543924E+22	7,543883E+22	5,779529E+22	5,779417E+22	1,508781E+23	1,155895E+23	2,664675E+23
-1323	7,543991E+22	7,544069E+22	5,779565E+22	5,779608E+22	1,508806E+23	1,155917E+23	2,664723E+23
-1322	7,544161E+22	7,544043E+22	5,779575E+22	5,779685E+22	1,508820E+23	1,155926E+23	2,664746E+23
-1321	7,543804E+22	7,543979E+22	5,779659E+22	5,779618E+22	1,508778E+23	1,155928E+23	2,664706E+23
-1320	7,544132E+22	7,544157E+22	5,779697E+22	5,779775E+22	1,508829E+23	1,155947E+23	2,664776E+23
-1319	7,544136E+22	7,543943E+22	5,779755E+22	5,779701E+22	1,508808E+23	1,155946E+23	2,664753E+23
-1318	7,543862E+22	7,544008E+22	5,779849E+22	5,779675E+22	1,508787E+23	1,155952E+23	2,664739E+23
-1317	7,544193E+22	7,544173E+22	5,779790E+22	5,779834E+22	1,508837E+23	1,155962E+23	2,664799E+23
-1316	7,543926E+22	7,543950E+22	5,779775E+22	5,779710E+22	1,508788E+23	1,155948E+23	2,664736E+23
-1315	7,543853E+22	7,544091E+22	5,779757E+22	5,779767E+22	1,508794E+23	1,155952E+23	2,664747E+23
-1314	7,544137E+22	7,544067E+22	5,779677E+22	5,779767E+22	1,508820E+23	1,155944E+23	2,664765E+23
-1313	7,543864E+22	7,543894E+22	5,779663E+22	5,779532E+22	1,508776E+23	1,155920E+23	2,664695E+23
-1312	7,544097E+22	7,544074E+22	5,779606E+22	5,779609E+22	1,508817E+23	1,155922E+23	2,664739E+23
-1311	7,544173E+22	7,543972E+22	5,779508E+22	5,779542E+22	1,508814E+23	1,155905E+23	2,664719E+23
-1310	7,543808E+22	7,544010E+22	5,779528E+22	5,779436E+22	1,508782E+23	1,155896E+23	2,664678E+23
-1309	7,544103E+22	7,544197E+22	5,779494E+22	5,779582E+22	1,508830E+23	1,155908E+23	2,664738E+23
-1308	7,543994E+22	7,543937E+22	5,779512E+22	5,779434E+22	1,508793E+23	1,155895E+23	2,664688E+23
-1307	7,543851E+22	7,544011E+22	5,779600E+22	5,779493E+22	1,508786E+23	1,155909E+23	2,664696E+23
-1306	7,544167E+22	7,544065E+22	5,779590E+22	5,779656E+22	1,508823E+23	1,155925E+23	2,664748E+23
-1305	7,543887E+22	7,543893E+22	5,779638E+22	5,779558E+22	1,508778E+23	1,155920E+23	2,664698E+23
-1304	7,543951E+22	7,544088E+22	5,779704E+22	5,779754E+22	1,508804E+23	1,155946E+23	2,664750E+23
-1303	7,544141E+22	7,544008E+22	5,779692E+22	5,779822E+22	1,508815E+23	1,155951E+23	2,664766E+23
-1302	7,543819E+22	7,543932E+22	5,779831E+22	5,779703E+22	1,508775E+23	1,155953E+23	2,664729E+23
-1301	7,544101E+22	7,544125E+22	5,779886E+22	5,779894E+22	1,508823E+23	1,155978E+23	2,664801E+23
-1300	7,544103E+22	7,543924E+22	5,779880E+22	5,779817E+22	1,508803E+23	1,155970E+23	2,664772E+23
-1299	7,543812E+22	7,544014E+22	5,779944E+22	5,779857E+22	1,508783E+23	1,155980E+23	2,664763E+23
-1298	7,544072E+22	7,544137E+22	5,779889E+22	5,780026E+22	1,508821E+23	1,155991E+23	2,664812E+23
-1297	7,543875E+22	7,543908E+22	5,779871E+22	5,779805E+22	1,508778E+23	1,155968E+23	2,664746E+23
-1296	7,543872E+22	7,544028E+22	5,779883E+22	5,779830E+22	1,508790E+23	1,155971E+23	2,664761E+23
-1295	7,544188E+22	7,543967E+22	5,779746E+22	5,779834E+22	1,508816E+23	1,155958E+23	2,664774E+23
-1294	7,543891E+22	7,543859E+22	5,779752E+22	5,779593E+22	1,508775E+23	1,155934E+23	2,664709E+23
-1293	7,544024E+22	7,544117E+22	5,779702E+22	5,779724E+22	1,508814E+23	1,155943E+23	2,664757E+23
-1292	7,544099E+22	7,544001E+22	5,779586E+22	5,779630E+22	1,508810E+23	1,155922E+23	2,664732E+23
-1291	7,543773E+22	7,544006E+22	5,779647E+22	5,779557E+22	1,508778E+23	1,155920E+23	2,664698E+23
-1290	7,544028E+22	7,544121E+22	5,779657E+22	5,779713E+22	1,508815E+23	1,155937E+23	2,664752E+23
-1289	7,543982E+22	7,543874E+22	5,779669E+22	5,779538E+22	1,508786E+23	1,155921E+23	2,664706E+23
-1288	7,543845E+22	7,543967E+22	5,779749E+22	5,779641E+22	1,508781E+23	1,155939E+23	2,664720E+23
-1287	7,544129E+22	7,544015E+22	5,779666E+22	5,779846E+22	1,508814E+23	1,155951E+23	2,664766E+23
-1286	7,543869E+22	7,543868E+22	5,779747E+22	5,779704E+22	1,508774E+23	1,155945E+23	2,664719E+23

1	14	15	16	17	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							
-1285	7,543905E+22	7,544077E+22	5,779848E+22	5,779882E+22	1,508798E+23	1,155973E+23	2,664771E+23
-1284	7,544148E+22	7,543982E+22	5,779827E+22	5,779894E+22	1,508813E+23	1,155972E+23	2,664785E+23
-1283	7,543857E+22	7,543915E+22	5,779976E+22	5,779821E+22	1,508777E+23	1,155980E+23	2,664757E+23
-1282	7,544009E+22	7,544106E+22	5,780043E+22	5,780058E+22	1,508812E+23	1,156010E+23	2,664822E+23
-1281	7,544022E+22	7,543952E+22	5,780008E+22	5,779963E+22	1,508797E+23	1,155997E+23	2,664794E+23
-1280	7,543748E+22	7,543993E+22	5,780078E+22	5,779997E+22	1,508774E+23	1,156008E+23	2,664782E+23
-1279	7,544033E+22	7,544045E+22	5,779979E+22	5,780151E+22	1,508808E+23	1,156013E+23	2,664821E+23
-1278	7,543920E+22	7,543811E+22	5,779984E+22	5,779868E+22	1,508773E+23	1,155985E+23	2,664758E+23
-1277	7,543880E+22	7,543974E+22	5,779992E+22	5,779910E+22	1,508785E+23	1,155990E+23	2,664776E+23
-1276	7,544186E+22	7,543966E+22	5,779803E+22	5,779907E+22	1,508815E+23	1,155971E+23	2,664786E+23
-1275	7,543868E+22	7,543899E+22	5,779805E+22	5,779719E+22	1,508777E+23	1,155952E+23	2,664729E+23
-1274	7,543898E+22	7,544115E+22	5,779810E+22	5,779856E+22	1,508801E+23	1,155967E+23	2,664768E+23
-1273	7,544039E+22	7,543986E+22	5,779718E+22	5,779703E+22	1,508802E+23	1,155942E+23	2,664745E+23
-1272	7,543768E+22	7,543936E+22	5,779815E+22	5,779644E+22	1,508770E+23	1,155946E+23	2,664716E+23
-1271	7,544026E+22	7,544013E+22	5,779772E+22	5,779846E+22	1,508804E+23	1,155962E+23	2,664766E+23
-1270	7,543987E+22	7,543818E+22	5,779785E+22	5,779678E+22	1,508781E+23	1,155946E+23	2,664727E+23
-1269	7,543782E+22	7,543982E+22	5,779857E+22	5,779817E+22	1,508776E+23	1,155967E+23	2,664744E+23
-1268	7,544096E+22	7,544022E+22	5,779755E+22	5,779974E+22	1,508812E+23	1,155973E+23	2,664785E+23
-1267	7,543880E+22	7,543875E+22	5,779873E+22	5,779835E+22	1,508775E+23	1,155971E+23	2,664746E+23
-1266	7,543863E+22	7,544040E+22	5,780034E+22	5,780005E+22	1,508790E+23	1,156004E+23	2,664794E+23
-1265	7,544134E+22	7,543958E+22	5,780003E+22	5,779992E+22	1,508809E+23	1,156000E+23	2,664809E+23
-1264	7,543818E+22	7,543900E+22	5,780148E+22	5,779978E+22	1,508772E+23	1,156013E+23	2,664784E+23
-1263	7,543920E+22	7,544049E+22	5,780135E+22	5,780245E+22	1,508797E+23	1,156038E+23	2,664835E+23
-1262	7,543972E+22	7,543874E+22	5,780119E+22	5,780100E+22	1,508785E+23	1,156022E+23	2,664806E+23
-1261	7,543713E+22	7,543930E+22	5,780192E+22	5,780106E+22	1,508764E+23	1,156030E+23	2,664794E+23
-1260	7,544075E+22	7,543965E+22	5,780053E+22	5,780197E+22	1,508804E+23	1,156025E+23	2,664829E+23
-1259	7,543987E+22	7,543796E+22	5,780050E+22	5,779946E+22	1,508778E+23	1,156000E+23	2,664778E+23
-1258	7,543820E+22	7,543992E+22	5,780083E+22	5,780017E+22	1,508781E+23	1,156010E+23	2,664791E+23
-1257	7,544111E+22	7,544034E+22	5,779897E+22	5,779991E+22	1,508815E+23	1,155989E+23	2,664803E+23
-1256	7,543802E+22	7,543924E+22	5,779949E+22	5,779826E+22	1,508773E+23	1,155977E+23	2,664750E+23
-1255	7,543822E+22	7,544043E+22	5,779938E+22	5,779972E+22	1,508787E+23	1,155991E+23	2,664778E+23
-1254	7,544042E+22	7,543880E+22	5,779878E+22	5,779804E+22	1,508792E+23	1,155968E+23	2,664760E+23
-1253	7,543751E+22	7,543861E+22	5,779953E+22	5,779786E+22	1,508761E+23	1,155974E+23	2,664735E+23
-1252	7,544014E+22	7,543969E+22	5,779840E+22	5,779994E+22	1,508798E+23	1,155983E+23	2,664782E+23
-1251	7,543986E+22	7,543834E+22	5,779835E+22	5,779857E+22	1,508782E+23	1,155969E+23	2,664751E+23
-1250	7,543704E+22	7,543971E+22	5,779972E+22	5,779964E+22	1,508768E+23	1,155994E+23	2,664761E+23
-1249	7,544085E+22	7,544026E+22	5,779906E+22	5,780045E+22	1,508811E+23	1,155995E+23	2,664806E+23
-1248	7,543908E+22	7,543842E+22	5,780065E+22	5,779915E+22	1,508775E+23	1,155998E+23	2,664773E+23
-1247	7,543826E+22	7,543973E+22	5,780187E+22	5,780135E+22	1,508780E+23	1,156032E+23	2,664812E+23
-1246	7,544096E+22	7,543924E+22	5,780157E+22	5,780143E+22	1,508802E+23	1,156030E+23	2,664832E+23
-1245	7,543719E+22	7,543887E+22	5,780282E+22	5,780159E+22	1,508761E+23	1,156044E+23	2,664805E+23
-1244	7,543868E+22	7,544001E+22	5,780227E+22	5,780380E+22	1,508787E+23	1,156061E+23	2,664848E+23
-1243	7,543995E+22	7,543833E+22	5,780206E+22	5,780221E+22	1,508783E+23	1,156043E+23	2,664826E+23
-1242	7,543699E+22	7,543868E+22	5,780314E+22	5,780204E+22	1,508757E+23	1,156052E+23	2,664808E+23
-1241	7,544088E+22	7,543962E+22	5,780158E+22	5,780261E+22	1,508805E+23	1,156042E+23	2,664847E+23
-1240	7,543965E+22	7,543830E+22	5,780157E+22	5,780054E+22	1,508780E+23	1,156021E+23	2,664801E+23
-1239	7,543723E+22	7,543986E+22	5,780158E+22	5,780149E+22	1,508771E+23	1,156031E+23	2,664802E+23
-1238	7,544055E+22	7,543988E+22	5,780021E+22	5,780084E+22	1,508804E+23	1,156011E+23	2,664815E+23
-1237	7,543750E+22	7,543863E+22	5,780094E+22	5,779925E+22	1,508761E+23	1,156002E+23	2,664763E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,543833E+22	7,543942E+22	5,780040E+22	5,780054E+22	1,508778E+23	1,156009E+23	2,664787E+23
-1235	7,544072E+22	7,543837E+22	5,779957E+22	5,779941E+22	1,508791E+23	1,155990E+23	2,664781E+23
-1234	7,543693E+22	7,543854E+22	5,780045E+22	5,779948E+22	1,508755E+23	1,155999E+23	2,664754E+23
-1233	7,543974E+22	7,543998E+22	5,779929E+22	5,780107E+22	1,508797E+23	1,156004E+23	2,664801E+23
-1232	7,543967E+22	7,543855E+22	5,779980E+22	5,779970E+22	1,508782E+23	1,155995E+23	2,664777E+23
-1231	7,543674E+22	7,543918E+22	5,780120E+22	5,780068E+22	1,508759E+23	1,156019E+23	2,664778E+23
-1230	7,544095E+22	7,543947E+22	5,780103E+22	5,780135E+22	1,508804E+23	1,156024E+23	2,664828E+23
-1229	7,543863E+22	7,543809E+22	5,780253E+22	5,780071E+22	1,508767E+23	1,156032E+23	2,664800E+23
-1228	7,543759E+22	7,543936E+22	5,780295E+22	5,780311E+22	1,508770E+23	1,156061E+23	2,664830E+23
-1227	7,544039E+22	7,543916E+22	5,780237E+22	5,780346E+22	1,508795E+23	1,156058E+23	2,664854E+23
-1226	7,543637E+22	7,543834E+22	5,780397E+22	5,780320E+22	1,508747E+23	1,156072E+23	2,664819E+23
-1225	7,543873E+22	7,543954E+22	5,780344E+22	5,780449E+22	1,508783E+23	1,156079E+23	2,664862E+23
-1224	7,544050E+22	7,543806E+22	5,780338E+22	5,780293E+22	1,508786E+23	1,156063E+23	2,664849E+23
-1223	7,543688E+22	7,543837E+22	5,780407E+22	5,780299E+22	1,508752E+23	1,156071E+23	2,664823E+23
-1222	7,544061E+22	7,543970E+22	5,780275E+22	5,780356E+22	1,508803E+23	1,156063E+23	2,664866E+23
-1221	7,543873E+22	7,543862E+22	5,780282E+22	5,780175E+22	1,508773E+23	1,156046E+23	2,664819E+23
-1220	7,543655E+22	7,543950E+22	5,780262E+22	5,780246E+22	1,508761E+23	1,156051E+23	2,664811E+23
-1219	7,544049E+22	7,543942E+22	5,780126E+22	5,780195E+22	1,508799E+23	1,156032E+23	2,664831E+23
-1218	7,543715E+22	7,543767E+22	5,780227E+22	5,780044E+22	1,508748E+23	1,156027E+23	2,664775E+23
-1217	7,543829E+22	7,543901E+22	5,780142E+22	5,780159E+22	1,508773E+23	1,156030E+23	2,664803E+23
-1216	7,544060E+22	7,543842E+22	5,780043E+22	5,780085E+22	1,508790E+23	1,156013E+23	2,664803E+23
-1215	7,543620E+22	7,543828E+22	5,780112E+22	5,780091E+22	1,508745E+23	1,156020E+23	2,664765E+23
-1214	7,543962E+22	7,543958E+22	5,780064E+22	5,780195E+22	1,508792E+23	1,156026E+23	2,664818E+23
-1213	7,543949E+22	7,543824E+22	5,780151E+22	5,780058E+22	1,508777E+23	1,156021E+23	2,664798E+23
-1212	7,543679E+22	7,543856E+22	5,780267E+22	5,780163E+22	1,508753E+23	1,156043E+23	2,664796E+23
-1211	7,544080E+22	7,543942E+22	5,780229E+22	5,780296E+22	1,508802E+23	1,156052E+23	2,664855E+23
-1210	7,543750E+22	7,543804E+22	5,780398E+22	5,780272E+22	1,508755E+23	1,156067E+23	2,664822E+23
-1209	7,543679E+22	7,543938E+22	5,780422E+22	5,780468E+22	1,508762E+23	1,156089E+23	2,664851E+23
-1208	7,544010E+22	7,543896E+22	5,780383E+22	5,780490E+22	1,508791E+23	1,156087E+23	2,664878E+23
-1207	7,543626E+22	7,543750E+22	5,780520E+22	5,780436E+22	1,508738E+23	1,156096E+23	2,664833E+23
-1206	7,543928E+22	7,543868E+22	5,780491E+22	5,780526E+22	1,508780E+23	1,156102E+23	2,664881E+23
-1205	7,544036E+22	7,543805E+22	5,780469E+22	5,780405E+22	1,508784E+23	1,156087E+23	2,664872E+23
-1204	7,543644E+22	7,543839E+22	5,780477E+22	5,780417E+22	1,508748E+23	1,156089E+23	2,664838E+23
-1203	7,543996E+22	7,543987E+22	5,780347E+22	5,780485E+22	1,508798E+23	1,156083E+23	2,664881E+23
-1202	7,543782E+22	7,543821E+22	5,780413E+22	5,780288E+22	1,508760E+23	1,156070E+23	2,664830E+23
-1201	7,543637E+22	7,543878E+22	5,780382E+22	5,780299E+22	1,508752E+23	1,156068E+23	2,664820E+23
-1200	7,544060E+22	7,543888E+22	5,780248E+22	5,780287E+22	1,508795E+23	1,156054E+23	2,664848E+23
-1199	7,543686E+22	7,543710E+22	5,780297E+22	5,780173E+22	1,508740E+23	1,156047E+23	2,664787E+23
-1198	7,543812E+22	7,543873E+22	5,780231E+22	5,780278E+22	1,508768E+23	1,156051E+23	2,664819E+23
-1197	7,544000E+22	7,543871E+22	5,780159E+22	5,780211E+22	1,508787E+23	1,156037E+23	2,664824E+23
-1196	7,543598E+22	7,543803E+22	5,780222E+22	5,780185E+22	1,508740E+23	1,156041E+23	2,664781E+23
-1195	7,543966E+22	7,543939E+22	5,780204E+22	5,780297E+22	1,508791E+23	1,156050E+23	2,664841E+23
-1194	7,543904E+22	7,543778E+22	5,780337E+22	5,780199E+22	1,508768E+23	1,156054E+23	2,664822E+23
-1193	7,543626E+22	7,543838E+22	5,780421E+22	5,780312E+22	1,508746E+23	1,156073E+23	2,664820E+23
-1192	7,544006E+22	7,543956E+22	5,780364E+22	5,780496E+22	1,508796E+23	1,156086E+23	2,664882E+23
-1191	7,543660E+22	7,543742E+22	5,780505E+22	5,780461E+22	1,508740E+23	1,156097E+23	2,664837E+23
-1190	7,543686E+22	7,543841E+22	5,780569E+22	5,780584E+22	1,508753E+23	1,156115E+23	2,664868E+23
-1189	7,544031E+22	7,543839E+22	5,780538E+22	5,780580E+22	1,508787E+23	1,156112E+23	2,664899E+23
-1188	7,543672E+22	7,543694E+22	5,780624E+22	5,780517E+22	1,508737E+23	1,156114E+23	2,664851E+23

1	14	15	16	17	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							
-1187	7,543940E+22	7,543898E+22	5,780576E+22	5,780640E+22	1,508784E+23	1,156122E+23	2,664905E+23
-1186	7,543938E+22	7,543838E+22	5,780585E+22	5,780540E+22	1,508778E+23	1,156113E+23	2,664890E+23
-1185	7,543556E+22	7,543862E+22	5,780595E+22	5,780514E+22	1,508742E+23	1,156111E+23	2,664853E+23
-1184	7,543939E+22	7,543976E+22	5,780481E+22	5,780583E+22	1,508791E+23	1,156106E+23	2,664898E+23
-1183	7,543730E+22	7,543711E+22	5,780532E+22	5,780393E+22	1,508744E+23	1,156093E+23	2,664837E+23
-1182	7,543661E+22	7,543763E+22	5,780509E+22	5,780396E+22	1,508742E+23	1,156091E+23	2,664833E+23
-1181	7,544029E+22	7,543857E+22	5,780345E+22	5,780421E+22	1,508789E+23	1,156077E+23	2,664865E+23
-1180	7,543657E+22	7,543692E+22	5,780330E+22	5,780308E+22	1,508735E+23	1,156064E+23	2,664799E+23
-1179	7,543793E+22	7,543884E+22	5,780282E+22	5,780394E+22	1,508768E+23	1,156068E+23	2,664835E+23
-1178	7,543950E+22	7,543850E+22	5,780296E+22	5,780305E+22	1,508780E+23	1,156060E+23	2,664840E+23
-1177	7,543598E+22	7,543775E+22	5,780380E+22	5,780245E+22	1,508737E+23	1,156062E+23	2,664800E+23
-1176	7,543950E+22	7,543933E+22	5,780377E+22	5,780413E+22	1,508788E+23	1,156079E+23	2,664867E+23
-1175	7,543823E+22	7,543742E+22	5,780481E+22	5,780379E+22	1,508757E+23	1,156086E+23	2,664843E+23
-1174	7,543577E+22	7,543789E+22	5,780572E+22	5,780488E+22	1,508737E+23	1,156106E+23	2,664842E+23
-1173	7,543933E+22	7,543934E+22	5,780522E+22	5,780666E+22	1,508787E+23	1,156119E+23	2,664906E+23
-1172	7,543668E+22	7,543668E+22	5,780619E+22	5,780591E+22	1,508734E+23	1,156121E+23	2,664855E+23
-1171	7,543735E+22	7,543787E+22	5,780683E+22	5,780689E+22	1,508752E+23	1,156137E+23	2,664889E+23
-1170	7,544026E+22	7,543812E+22	5,780689E+22	5,780704E+22	1,508784E+23	1,156139E+23	2,664923E+23
-1169	7,543644E+22	7,543716E+22	5,780732E+22	5,780624E+22	1,508736E+23	1,156136E+23	2,664872E+23
-1168	7,543851E+22	7,543953E+22	5,780682E+22	5,780777E+22	1,508780E+23	1,156146E+23	2,664926E+23
-1167	7,543827E+22	7,543804E+22	5,780690E+22	5,780675E+22	1,508763E+23	1,156136E+23	2,664900E+23
-1166	7,543535E+22	7,543755E+22	5,780735E+22	5,780595E+22	1,508729E+23	1,156133E+23	2,664862E+23
-1165	7,543917E+22	7,543902E+22	5,780621E+22	5,780664E+22	1,508782E+23	1,156129E+23	2,664910E+23
-1164	7,543755E+22	7,543625E+22	5,780597E+22	5,780492E+22	1,508738E+23	1,156109E+23	2,664847E+23
-1163	7,543668E+22	7,543757E+22	5,780549E+22	5,780518E+22	1,508743E+23	1,156107E+23	2,664849E+23
-1162	7,543963E+22	7,543877E+22	5,780431E+22	5,780554E+22	1,508784E+23	1,156098E+23	2,664883E+23
-1161	7,543618E+22	7,543718E+22	5,780429E+22	5,780385E+22	1,508734E+23	1,156081E+23	2,664815E+23
-1160	7,543771E+22	7,543908E+22	5,780427E+22	5,780472E+22	1,508768E+23	1,156090E+23	2,664858E+23
-1159	7,543917E+22	7,543783E+22	5,780458E+22	5,780411E+22	1,508770E+23	1,156087E+23	2,664857E+23
-1158	7,543603E+22	7,543691E+22	5,780566E+22	5,780375E+22	1,508729E+23	1,156094E+23	2,664824E+23
-1157	7,543867E+22	7,543922E+22	5,780538E+22	5,780593E+22	1,508779E+23	1,156113E+23	2,664892E+23
-1156	7,543757E+22	7,543693E+22	5,780572E+22	5,780579E+22	1,508745E+23	1,156115E+23	2,664860E+23
-1155	7,543562E+22	7,543744E+22	5,780664E+22	5,780652E+22	1,508731E+23	1,156132E+23	2,664862E+23
-1154	7,543916E+22	7,543860E+22	5,780666E+22	5,780790E+22	1,508778E+23	1,156146E+23	2,664923E+23
-1153	7,543705E+22	7,543631E+22	5,780746E+22	5,780662E+22	1,508734E+23	1,156141E+23	2,664874E+23
-1152	7,543753E+22	7,543818E+22	5,780804E+22	5,780791E+22	1,508757E+23	1,156160E+23	2,664917E+23
-1151	7,543946E+22	7,543819E+22	5,780803E+22	5,780846E+22	1,508777E+23	1,156165E+23	2,664941E+23
-1150	7,543582E+22	7,543712E+22	5,780876E+22	5,780755E+22	1,508729E+23	1,156163E+23	2,664893E+23
-1149	7,543745E+22	7,543949E+22	5,780843E+22	5,780892E+22	1,508769E+23	1,156174E+23	2,664943E+23
-1148	7,543798E+22	7,543712E+22	5,780801E+22	5,780783E+22	1,508751E+23	1,156158E+23	2,664909E+23
-1147	7,543567E+22	7,543659E+22	5,780829E+22	5,780692E+22	1,508723E+23	1,156152E+23	2,664875E+23
-1146	7,543899E+22	7,543831E+22	5,780728E+22	5,780789E+22	1,508773E+23	1,156152E+23	2,664925E+23
-1145	7,543738E+22	7,543630E+22	5,780647E+22	5,780601E+22	1,508737E+23	1,156125E+23	2,664862E+23
-1144	7,543629E+22	7,543809E+22	5,780602E+22	5,780633E+22	1,508744E+23	1,156123E+23	2,664867E+23
-1143	7,543901E+22	7,543853E+22	5,780529E+22	5,780652E+22	1,508775E+23	1,156118E+23	2,664894E+23
-1142	7,543638E+22	7,543652E+22	5,780587E+22	5,780442E+22	1,508729E+23	1,156103E+23	2,664832E+23
-1141	7,543740E+22	7,543879E+22	5,780614E+22	5,780549E+22	1,508762E+23	1,156116E+23	2,664878E+23
-1140	7,543903E+22	7,543730E+22	5,780580E+22	5,780555E+22	1,508763E+23	1,156114E+23	2,664877E+23
-1139	7,543565E+22	7,543667E+22	5,780668E+22	5,780552E+22	1,508723E+23	1,156122E+23	2,664845E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,543770E+22	7,543903E+22	5,780676E+22	5,780789E+22	1,508767E+23	1,156146E+23	2,664914E+23
-1137	7,543723E+22	7,543668E+22	5,780686E+22	5,780711E+22	1,508739E+23	1,156140E+23	2,664879E+23
-1136	7,543565E+22	7,543730E+22	5,780791E+22	5,780768E+22	1,508729E+23	1,156156E+23	2,664885E+23
-1135	7,543915E+22	7,543793E+22	5,780813E+22	5,780911E+22	1,508771E+23	1,156172E+23	2,664943E+23
-1134	7,543731E+22	7,543585E+22	5,780904E+22	5,780779E+22	1,508732E+23	1,156168E+23	2,664900E+23
-1133	7,543669E+22	7,543858E+22	5,780955E+22	5,780929E+22	1,508753E+23	1,156188E+23	2,664941E+23
-1132	7,543875E+22	7,543798E+22	5,780895E+22	5,781000E+22	1,508767E+23	1,156190E+23	2,664957E+23
-1131	7,543547E+22	7,543656E+22	5,780986E+22	5,780873E+22	1,508720E+23	1,156186E+23	2,664906E+23
-1130	7,543699E+22	7,543863E+22	5,780992E+22	5,780994E+22	1,508756E+23	1,156199E+23	2,664955E+23
-1129	7,543811E+22	7,543644E+22	5,780901E+22	5,780855E+22	1,508746E+23	1,156176E+23	2,664921E+23
-1128	7,543577E+22	7,543667E+22	5,780896E+22	5,780801E+22	1,508724E+23	1,156170E+23	2,664894E+23
-1127	7,543845E+22	7,543818E+22	5,780793E+22	5,780921E+22	1,508766E+23	1,156171E+23	2,664938E+23
-1126	7,543720E+22	7,543630E+22	5,780747E+22	5,780699E+22	1,508735E+23	1,156145E+23	2,664880E+23
-1125	7,543571E+22	7,543836E+22	5,780746E+22	5,780702E+22	1,508741E+23	1,156145E+23	2,664885E+23
-1124	7,543890E+22	7,543796E+22	5,780652E+22	5,780735E+22	1,508769E+23	1,156139E+23	2,664907E+23
-1123	7,543659E+22	7,543588E+22	5,780729E+22	5,780551E+22	1,508725E+23	1,156128E+23	2,664853E+23
-1122	7,543670E+22	7,543825E+22	5,780768E+22	5,780711E+22	1,508750E+23	1,156148E+23	2,664898E+23
-1121	7,543821E+22	7,543721E+22	5,780672E+22	5,780727E+22	1,508754E+23	1,156140E+23	2,664894E+23
-1120	7,543509E+22	7,543678E+22	5,780744E+22	5,780728E+22	1,508719E+23	1,156147E+23	2,664866E+23
-1119	7,543721E+22	7,543814E+22	5,780793E+22	5,780932E+22	1,508754E+23	1,156173E+23	2,664926E+23
-1118	7,543775E+22	7,543586E+22	5,780837E+22	5,780798E+22	1,508736E+23	1,156164E+23	2,664900E+23
-1117	7,543578E+22	7,543716E+22	5,780961E+22	5,780848E+22	1,508729E+23	1,156181E+23	2,664910E+23
-1116	7,543912E+22	7,543774E+22	5,780930E+22	5,781043E+22	1,508769E+23	1,156197E+23	2,664966E+23
-1115	7,543698E+22	7,543603E+22	5,781026E+22	5,780926E+22	1,508730E+23	1,156195E+23	2,664925E+23
-1114	7,543552E+22	7,543859E+22	5,781120E+22	5,781085E+22	1,508741E+23	1,156220E+23	2,664962E+23
-1113	7,543809E+22	7,543775E+22	5,781029E+22	5,781112E+22	1,508758E+23	1,156214E+23	2,664973E+23
-1112	7,543538E+22	7,543616E+22	5,781106E+22	5,780984E+22	1,508715E+23	1,156209E+23	2,664924E+23
-1111	7,543683E+22	7,543752E+22	5,781118E+22	5,781119E+22	1,508744E+23	1,156224E+23	2,664967E+23
-1110	7,543832E+22	7,543590E+22	5,781000E+22	5,780974E+22	1,508742E+23	1,156197E+23	2,664940E+23
-1109	7,543513E+22	7,543706E+22	5,780981E+22	5,780918E+22	1,508722E+23	1,156190E+23	2,664912E+23
-1108	7,543812E+22	7,543804E+22	5,780843E+22	5,781038E+22	1,508762E+23	1,156188E+23	2,664950E+23
-1107	7,543725E+22	7,543589E+22	5,780841E+22	5,780764E+22	1,508731E+23	1,156160E+23	2,664892E+23
-1106	7,543534E+22	7,543786E+22	5,780905E+22	5,780772E+22	1,508732E+23	1,156168E+23	2,664900E+23
-1105	7,543875E+22	7,543762E+22	5,780770E+22	5,780810E+22	1,508764E+23	1,156158E+23	2,664922E+23
-1104	7,543615E+22	7,543601E+22	5,780826E+22	5,780697E+22	1,508722E+23	1,156152E+23	2,664874E+23
-1103	7,543569E+22	7,543786E+22	5,780883E+22	5,780898E+22	1,508735E+23	1,156178E+23	2,664914E+23
-1102	7,543785E+22	7,543676E+22	5,780802E+22	5,780877E+22	1,508746E+23	1,156168E+23	2,664914E+23
-1101	7,543471E+22	7,543662E+22	5,780900E+22	5,780835E+22	1,508713E+23	1,156174E+23	2,664887E+23
-1100	7,543759E+22	7,543729E+22	5,780915E+22	5,781044E+22	1,508749E+23	1,156196E+23	2,664945E+23
-1099	7,543831E+22	7,543530E+22	5,780981E+22	5,780906E+22	1,508736E+23	1,156189E+23	2,664925E+23
-1098	7,543525E+22	7,543719E+22	5,781128E+22	5,781002E+22	1,508724E+23	1,156213E+23	2,664937E+23
-1097	7,543824E+22	7,543809E+22	5,781046E+22	5,781194E+22	1,508763E+23	1,156224E+23	2,664987E+23
-1096	7,543622E+22	7,543631E+22	5,781143E+22	5,781088E+22	1,508725E+23	1,156223E+23	2,664948E+23
-1095	7,543476E+22	7,543764E+22	5,781273E+22	5,781224E+22	1,508724E+23	1,156250E+23	2,664974E+23
-1094	7,543822E+22	7,543676E+22	5,781180E+22	5,781209E+22	1,508750E+23	1,156239E+23	2,664989E+23
-1093	7,543538E+22	7,543584E+22	5,781235E+22	5,781078E+22	1,508712E+23	1,156231E+23	2,664944E+23
-1092	7,543683E+22	7,543704E+22	5,781171E+22	5,781252E+22	1,508739E+23	1,156242E+23	2,664981E+23
-1091	7,543825E+22	7,543597E+22	5,781065E+22	5,781089E+22	1,508742E+23	1,156215E+23	2,664958E+23
-1090	7,543445E+22	7,543715E+22	5,781094E+22	5,781013E+22	1,508716E+23	1,156211E+23	2,664927E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,543764E+22	7,543799E+22	5,780948E+22	5,781087E+22	1,508756E+23	1,156204E+23	2,664960E+23
-1088	7,543721E+22	7,543584E+22	5,780957E+22	5,780842E+22	1,508730E+23	1,156180E+23	2,664910E+23
-1087	7,543482E+22	7,543690E+22	5,781054E+22	5,780898E+22	1,508717E+23	1,156195E+23	2,664912E+23
-1086	7,543829E+22	7,543720E+22	5,780896E+22	5,780959E+22	1,508755E+23	1,156185E+23	2,664940E+23
-1085	7,543528E+22	7,543609E+22	5,780939E+22	5,780854E+22	1,508714E+23	1,156179E+23	2,664893E+23
-1084	7,543537E+22	7,543704E+22	5,780963E+22	5,781055E+22	1,508724E+23	1,156202E+23	2,664926E+23
-1083	7,543822E+22	7,543595E+22	5,780923E+22	5,780976E+22	1,508742E+23	1,156190E+23	2,664931E+23
-1082	7,543481E+22	7,543612E+22	5,781065E+22	5,780929E+22	1,508709E+23	1,156199E+23	2,664909E+23
-1081	7,543766E+22	7,543731E+22	5,781042E+22	5,781139E+22	1,508750E+23	1,156218E+23	2,664968E+23
-1080	7,543799E+22	7,543602E+22	5,781097E+22	5,781061E+22	1,508740E+23	1,156216E+23	2,664956E+23
-1079	7,543411E+22	7,543717E+22	5,781291E+22	5,781190E+22	1,508713E+23	1,156248E+23	2,664961E+23
-1078	7,543748E+22	7,543793E+22	5,781219E+22	5,781344E+22	1,508754E+23	1,156256E+23	2,665010E+23
-1077	7,543553E+22	7,543604E+22	5,781329E+22	5,781211E+22	1,508716E+23	1,156254E+23	2,664970E+23
-1076	7,543492E+22	7,543637E+22	5,781399E+22	5,781362E+22	1,508713E+23	1,156276E+23	2,664989E+23
-1075	7,543868E+22	7,543574E+22	5,781287E+22	5,781327E+22	1,508744E+23	1,156261E+23	2,665006E+23
-1074	7,543496E+22	7,543571E+22	5,781328E+22	5,781216E+22	1,508707E+23	1,156254E+23	2,664961E+23
-1073	7,543637E+22	7,543729E+22	5,781205E+22	5,781353E+22	1,508737E+23	1,156256E+23	2,664992E+23
-1072	7,543791E+22	7,543633E+22	5,781121E+22	5,781172E+22	1,508742E+23	1,156229E+23	2,664972E+23
-1071	7,543398E+22	7,543651E+22	5,781231E+22	5,781083E+22	1,508705E+23	1,156231E+23	2,664936E+23
-1070	7,543759E+22	7,543742E+22	5,781098E+22	5,781135E+22	1,508750E+23	1,156223E+23	2,664973E+23
-1069	7,543676E+22	7,543578E+22	5,781109E+22	5,780933E+22	1,508725E+23	1,156204E+23	2,664930E+23
-1068	7,543436E+22	7,543630E+22	5,781137E+22	5,781064E+22	1,508707E+23	1,156220E+23	2,664927E+23
-1067	7,543789E+22	7,543676E+22	5,780995E+22	5,781113E+22	1,508747E+23	1,156211E+23	2,664957E+23
-1066	7,543467E+22	7,543584E+22	5,781069E+22	5,780997E+22	1,508705E+23	1,156207E+23	2,664912E+23
-1065	7,543535E+22	7,543668E+22	5,781067E+22	5,781146E+22	1,508720E+23	1,156221E+23	2,664942E+23
-1064	7,543861E+22	7,543593E+22	5,781042E+22	5,781085E+22	1,508745E+23	1,156213E+23	2,664958E+23
-1063	7,543458E+22	7,543563E+22	5,781235E+22	5,781078E+22	1,508702E+23	1,156231E+23	2,664933E+23
-1062	7,543701E+22	7,543753E+22	5,781198E+22	5,781296E+22	1,508745E+23	1,156249E+23	2,664995E+23
-1061	7,543695E+22	7,543649E+22	5,781261E+22	5,781229E+22	1,508734E+23	1,156249E+23	2,664983E+23
-1060	7,543352E+22	7,543621E+22	5,781421E+22	5,781360E+22	1,508697E+23	1,156278E+23	2,664975E+23
-1059	7,543752E+22	7,543679E+22	5,781373E+22	5,781457E+22	1,508743E+23	1,156283E+23	2,665026E+23
-1058	7,543556E+22	7,543515E+22	5,781475E+22	5,781322E+22	1,508707E+23	1,156280E+23	2,664987E+23
-1057	7,543497E+22	7,543593E+22	5,781469E+22	5,781463E+22	1,508709E+23	1,156293E+23	2,665002E+23
-1056	7,543858E+22	7,543627E+22	5,781334E+22	5,781455E+22	1,508748E+23	1,156279E+23	2,665027E+23
-1055	7,543428E+22	7,543564E+22	5,781431E+22	5,781339E+22	1,508699E+23	1,156277E+23	2,664976E+23
-1054	7,543589E+22	7,543743E+22	5,781330E+22	5,781417E+22	1,508733E+23	1,156275E+23	2,665008E+23
-1053	7,543749E+22	7,543645E+22	5,781279E+22	5,781221E+22	1,508739E+23	1,156250E+23	2,664989E+23
-1052	7,543395E+22	7,543543E+22	5,781358E+22	5,781187E+22	1,508694E+23	1,156255E+23	2,664948E+23
-1051	7,543744E+22	7,543662E+22	5,781227E+22	5,781256E+22	1,508741E+23	1,156248E+23	2,664989E+23
-1050	7,543586E+22	7,543558E+22	5,781219E+22	5,781107E+22	1,508714E+23	1,156233E+23	2,664947E+23
-1049	7,543372E+22	7,543608E+22	5,781186E+22	5,781214E+22	1,508698E+23	1,156240E+23	2,664938E+23
-1048	7,543782E+22	7,543665E+22	5,781061E+22	5,781239E+22	1,508745E+23	1,156230E+23	2,664975E+23
-1047	7,543468E+22	7,543503E+22	5,781209E+22	5,781099E+22	1,508697E+23	1,156231E+23	2,664928E+23
-1046	7,543568E+22	7,543647E+22	5,781212E+22	5,781217E+22	1,508721E+23	1,156243E+23	2,664964E+23
-1045	7,543831E+22	7,543641E+22	5,781207E+22	5,781193E+22	1,508747E+23	1,156240E+23	2,664987E+23
-1044	7,543408E+22	7,543545E+22	5,781369E+22	5,781262E+22	1,508695E+23	1,156263E+23	2,664958E+23
-1043	7,543635E+22	7,543718E+22	5,781361E+22	5,781450E+22	1,508735E+23	1,156281E+23	2,665016E+23
-1042	7,543602E+22	7,543609E+22	5,781446E+22	5,781388E+22	1,508721E+23	1,156283E+23	2,665004E+23
-1041	7,543338E+22	7,543539E+22	5,781544E+22	5,781479E+22	1,508688E+23	1,156302E+23	2,664990E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,543783E+22	7,543620E+22	5,781476E+22	5,781585E+22	1,508740E+23	1,156306E+23	2,665046E+23
-1039	7,543542E+22	7,543447E+22	5,781597E+22	5,781476E+22	1,508699E+23	1,156307E+23	2,665006E+23
-1038	7,543461E+22	7,543619E+22	5,781549E+22	5,781586E+22	1,508708E+23	1,156313E+23	2,665021E+23
-1037	7,543789E+22	7,543688E+22	5,781442E+22	5,781555E+22	1,508748E+23	1,156300E+23	2,665047E+23
-1036	7,543404E+22	7,543502E+22	5,781533E+22	5,781436E+22	1,508691E+23	1,156297E+23	2,664987E+23
-1035	7,543588E+22	7,543662E+22	5,781478E+22	5,781461E+22	1,508725E+23	1,156294E+23	2,665019E+23
-1034	7,543714E+22	7,543601E+22	5,781430E+22	5,781312E+22	1,508731E+23	1,156274E+23	2,665006E+23
-1033	7,543360E+22	7,543505E+22	5,781430E+22	5,781306E+22	1,508686E+23	1,156274E+23	2,664960E+23
-1032	7,543695E+22	7,543684E+22	5,781280E+22	5,781416E+22	1,508738E+23	1,156270E+23	2,665007E+23
-1031	7,543516E+22	7,543512E+22	5,781326E+22	5,781269E+22	1,508703E+23	1,156260E+23	2,664962E+23
-1030	7,543347E+22	7,543594E+22	5,781297E+22	5,781308E+22	1,508694E+23	1,156260E+23	2,664954E+23
-1029	7,543793E+22	7,543665E+22	5,781214E+22	5,781311E+22	1,508746E+23	1,156253E+23	2,664998E+23
-1028	7,543509E+22	7,543406E+22	5,781340E+22	5,781214E+22	1,508691E+23	1,156255E+23	2,664947E+23
-1027	7,543559E+22	7,543608E+22	5,781368E+22	5,781336E+22	1,508717E+23	1,156270E+23	2,664987E+23
-1026	7,543736E+22	7,543662E+22	5,781355E+22	5,781368E+22	1,508740E+23	1,156272E+23	2,665012E+23
-1025	7,543323E+22	7,543512E+22	5,781476E+22	5,781424E+22	1,508684E+23	1,156290E+23	2,664974E+23
-1024	7,543596E+22	7,543683E+22	5,781482E+22	5,781596E+22	1,508728E+23	1,156308E+23	2,665036E+23
-1023	7,543584E+22	7,543490E+22	5,781615E+22	5,781526E+22	1,508707E+23	1,156314E+23	2,665021E+23
-1022	7,543353E+22	7,543492E+22	5,781672E+22	5,781584E+22	1,508685E+23	1,156326E+23	2,665010E+23
-1021	7,543768E+22	7,543652E+22	5,781598E+22	5,781705E+22	1,508742E+23	1,156330E+23	2,665072E+23
-1020	7,543516E+22	7,543429E+22	5,781679E+22	5,781632E+22	1,508694E+23	1,156331E+23	2,665026E+23
-1019	7,543427E+22	7,543614E+22	5,781676E+22	5,781681E+22	1,508704E+23	1,156336E+23	2,665040E+23
-1018	7,543721E+22	7,543692E+22	5,781598E+22	5,781646E+22	1,508741E+23	1,156324E+23	2,665066E+23
-1017	7,543389E+22	7,543446E+22	5,781649E+22	5,781514E+22	1,508683E+23	1,156316E+23	2,665000E+23
-1016	7,543581E+22	7,543623E+22	5,781581E+22	5,781569E+22	1,508720E+23	1,156315E+23	2,665035E+23
-1015	7,543646E+22	7,543534E+22	5,781551E+22	5,781478E+22	1,508718E+23	1,156303E+23	2,665021E+23
-1014	7,543296E+22	7,543507E+22	5,781495E+22	5,781449E+22	1,508680E+23	1,156294E+23	2,664975E+23
-1013	7,543642E+22	7,543686E+22	5,781373E+22	5,781528E+22	1,508733E+23	1,156290E+23	2,665023E+23
-1012	7,543535E+22	7,543415E+22	5,781413E+22	5,781375E+22	1,508695E+23	1,156279E+23	2,664974E+23
-1011	7,543404E+22	7,543507E+22	5,781428E+22	5,781346E+22	1,508691E+23	1,156277E+23	2,664969E+23
-1010	7,543780E+22	7,543653E+22	5,781365E+22	5,781398E+22	1,508743E+23	1,156276E+23	2,665020E+23
-1009	7,543478E+22	7,543416E+22	5,781439E+22	5,781344E+22	1,508689E+23	1,156278E+23	2,664968E+23
-1008	7,543483E+22	7,543649E+22	5,781477E+22	5,781501E+22	1,508713E+23	1,156298E+23	2,665011E+23
-1007	7,543627E+22	7,543624E+22	5,781533E+22	5,781556E+22	1,508725E+23	1,156309E+23	2,665034E+23
-1006	7,543270E+22	7,543477E+22	5,781633E+22	5,781556E+22	1,508675E+23	1,156319E+23	2,664994E+23
-1005	7,543586E+22	7,543636E+22	5,781659E+22	5,781716E+22	1,508722E+23	1,156338E+23	2,665060E+23
-1004	7,543615E+22	7,543373E+22	5,781740E+22	5,781692E+22	1,508699E+23	1,156343E+23	2,665042E+23
-1003	7,543358E+22	7,543450E+22	5,781789E+22	5,781722E+22	1,508681E+23	1,156351E+23	2,665032E+23
-1002	7,543697E+22	7,543689E+22	5,781711E+22	5,781860E+22	1,508739E+23	1,156357E+23	2,665096E+23
-1001	7,543477E+22	7,543421E+22	5,781755E+22	5,781742E+22	1,508690E+23	1,156350E+23	2,665039E+23
-1000	7,543412E+22	7,543603E+22	5,781783E+22	5,781755E+22	1,508702E+23	1,156354E+23	2,665055E+23
-999	7,543695E+22	7,543610E+22	5,781761E+22	5,781737E+22	1,508731E+23	1,156350E+23	2,665080E+23
-998	7,543359E+22	7,543419E+22	5,781767E+22	5,781602E+22	1,508678E+23	1,156337E+23	2,665015E+23
-997	7,543525E+22	7,543641E+22	5,781695E+22	5,781694E+22	1,508717E+23	1,156339E+23	2,665056E+23
-996	7,543600E+22	7,543463E+22	5,781619E+22	5,781641E+22	1,508706E+23	1,156326E+23	2,665032E+23
-995	7,543275E+22	7,543452E+22	5,781594E+22	5,781543E+22	1,508673E+23	1,156314E+23	2,664986E+23
-994	7,543622E+22	7,543663E+22	5,781495E+22	5,781610E+22	1,508728E+23	1,156310E+23	2,665039E+23
-993	7,543567E+22	7,543354E+22	5,781501E+22	5,781444E+22	1,508692E+23	1,156295E+23	2,664987E+23
-992	7,543418E+22	7,543506E+22	5,781534E+22	5,781447E+22	1,508692E+23	1,156298E+23	2,664991E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-991	7,543699E+22	7,543641E+22	5,781515E+22	5,781568E+22	1,508734E+23	1,156308E+23	2,665042E+23
-990	7,543373E+22	7,543452E+22	5,781562E+22	5,781508E+22	1,508682E+23	1,156307E+23	2,664989E+23
-989	7,543396E+22	7,543649E+22	5,781640E+22	5,781651E+22	1,508704E+23	1,156329E+23	2,665034E+23
-988	7,543607E+22	7,543493E+22	5,781681E+22	5,781716E+22	1,508710E+23	1,156340E+23	2,665050E+23
-987	7,543311E+22	7,543364E+22	5,781792E+22	5,781660E+22	1,508667E+23	1,156345E+23	2,665013E+23
-986	7,543584E+22	7,543603E+22	5,781803E+22	5,781853E+22	1,508719E+23	1,156366E+23	2,665084E+23
-985	7,543611E+22	7,543374E+22	5,781813E+22	5,781840E+22	1,508699E+23	1,156365E+23	2,665064E+23
-984	7,543331E+22	7,543501E+22	5,781875E+22	5,781857E+22	1,508683E+23	1,156373E+23	2,665056E+23
-983	7,543619E+22	7,543680E+22	5,781877E+22	5,781993E+22	1,508730E+23	1,156387E+23	2,665117E+23
-982	7,543435E+22	7,543428E+22	5,781906E+22	5,781819E+22	1,508686E+23	1,156373E+23	2,665059E+23
-981	7,543386E+22	7,543569E+22	5,781955E+22	5,781833E+22	1,508696E+23	1,156379E+23	2,665074E+23
-980	7,543670E+22	7,543499E+22	5,781881E+22	5,781886E+22	1,508717E+23	1,156377E+23	2,665094E+23
-979	7,543328E+22	7,543354E+22	5,781857E+22	5,781733E+22	1,508668E+23	1,156359E+23	2,665027E+23
-978	7,543438E+22	7,543623E+22	5,781774E+22	5,781839E+22	1,508706E+23	1,156361E+23	2,665067E+23
-977	7,543584E+22	7,543411E+22	5,781658E+22	5,781744E+22	1,508699E+23	1,156340E+23	2,665040E+23
-976	7,543307E+22	7,543420E+22	5,781662E+22	5,781597E+22	1,508673E+23	1,156326E+23	2,664999E+23
-975	7,543621E+22	7,543609E+22	5,781635E+22	5,781688E+22	1,508723E+23	1,156332E+23	2,665055E+23
-974	7,543543E+22	7,543390E+22	5,781614E+22	5,781526E+22	1,508693E+23	1,156314E+23	2,665007E+23
-973	7,543341E+22	7,543565E+22	5,781682E+22	5,781578E+22	1,508691E+23	1,156326E+23	2,665017E+23
-972	7,543605E+22	7,543598E+22	5,781653E+22	5,781757E+22	1,508720E+23	1,156341E+23	2,665061E+23
-971	7,543319E+22	7,543385E+22	5,781735E+22	5,781648E+22	1,508670E+23	1,156338E+23	2,665009E+23
-970	7,543354E+22	7,543581E+22	5,781823E+22	5,781795E+22	1,508693E+23	1,156362E+23	2,665055E+23
-969	7,543642E+22	7,543385E+22	5,781797E+22	5,781854E+22	1,508703E+23	1,156365E+23	2,665068E+23
-968	7,543346E+22	7,543335E+22	5,781890E+22	5,781805E+22	1,508668E+23	1,156369E+23	2,665038E+23
-967	7,543537E+22	7,543598E+22	5,781930E+22	5,782035E+22	1,508714E+23	1,156397E+23	2,665110E+23
-966	7,543540E+22	7,543433E+22	5,781916E+22	5,781969E+22	1,508697E+23	1,156388E+23	2,665086E+23
-965	7,543284E+22	7,543529E+22	5,782037E+22	5,781954E+22	1,508681E+23	1,156399E+23	2,665080E+23
-964	7,543597E+22	7,543573E+22	5,782031E+22	5,782094E+22	1,508717E+23	1,156412E+23	2,665129E+23
-963	7,543434E+22	7,543335E+22	5,782068E+22	5,781895E+22	1,508677E+23	1,156396E+23	2,665073E+23
-962	7,543330E+22	7,543539E+22	5,782085E+22	5,781963E+22	1,508687E+23	1,156405E+23	2,665092E+23
-961	7,543618E+22	7,543462E+22	5,781922E+22	5,782037E+22	1,508708E+23	1,156396E+23	2,665104E+23
-960	7,543295E+22	7,543359E+22	5,781901E+22	5,781860E+22	1,508665E+23	1,156376E+23	2,665041E+23
-959	7,543393E+22	7,543580E+22	5,781883E+22	5,781953E+22	1,508697E+23	1,156384E+23	2,665081E+23
-958	7,543576E+22	7,543414E+22	5,781759E+22	5,781792E+22	1,508699E+23	1,156355E+23	2,665054E+23
-957	7,543324E+22	7,543419E+22	5,781809E+22	5,781657E+22	1,508674E+23	1,156347E+23	2,665021E+23
-956	7,543588E+22	7,543548E+22	5,781766E+22	5,781821E+22	1,508714E+23	1,156359E+23	2,665072E+23
-955	7,543483E+22	7,543379E+22	5,781750E+22	5,781668E+22	1,508686E+23	1,156342E+23	2,665028E+23
-954	7,543231E+22	7,543556E+22	5,781829E+22	5,781747E+22	1,508679E+23	1,156358E+23	2,665036E+23
-953	7,543562E+22	7,543514E+22	5,781762E+22	5,781906E+22	1,508708E+23	1,156367E+23	2,665074E+23
-952	7,543350E+22	7,543307E+22	5,781853E+22	5,781763E+22	1,508666E+23	1,156362E+23	2,665027E+23
-951	7,543360E+22	7,543492E+22	5,781982E+22	5,781940E+22	1,508685E+23	1,156392E+23	2,665077E+23
-950	7,543634E+22	7,543416E+22	5,781906E+22	5,781983E+22	1,508705E+23	1,156389E+23	2,665094E+23
-949	7,543314E+22	7,543395E+22	5,782021E+22	5,781943E+22	1,508671E+23	1,156396E+23	2,665067E+23
-948	7,543467E+22	7,543578E+22	5,782070E+22	5,782194E+22	1,508704E+23	1,156426E+23	2,665131E+23
-947	7,543506E+22	7,543407E+22	5,782089E+22	5,782066E+22	1,508691E+23	1,156415E+23	2,665107E+23
-946	7,543227E+22	7,543483E+22	5,782226E+22	5,782060E+22	1,508671E+23	1,156429E+23	2,665100E+23
-945	7,543581E+22	7,543478E+22	5,782149E+22	5,782219E+22	1,508706E+23	1,156437E+23	2,665143E+23
-944	7,543419E+22	7,543290E+22	5,782149E+22	5,782039E+22	1,508671E+23	1,156419E+23	2,665090E+23
-943	7,543246E+22	7,543498E+22	5,782175E+22	5,782145E+22	1,508674E+23	1,156432E+23	2,665106E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-942	7,543554E+22	7,543477E+22	5,781972E+22	5,782147E+22	1,508703E+23	1,156412E+23	2,665115E+23
-941	7,543296E+22	7,543350E+22	5,782000E+22	5,781920E+22	1,508665E+23	1,156392E+23	2,665057E+23
-940	7,543414E+22	7,543488E+22	5,781993E+22	5,782015E+22	1,508690E+23	1,156401E+23	2,665091E+23
-939	7,543606E+22	7,543373E+22	5,781894E+22	5,781834E+22	1,508698E+23	1,156373E+23	2,665071E+23
-938	7,543270E+22	7,543438E+22	5,781955E+22	5,781770E+22	1,508671E+23	1,156372E+23	2,665043E+23
-937	7,543511E+22	7,543536E+22	5,781858E+22	5,781972E+22	1,508705E+23	1,156383E+23	2,665088E+23
-936	7,543421E+22	7,543372E+22	5,781865E+22	5,781821E+22	1,508679E+23	1,156369E+23	2,665048E+23
-935	7,543167E+22	7,543484E+22	5,781997E+22	5,781914E+22	1,508665E+23	1,156391E+23	2,665056E+23
-934	7,543544E+22	7,543467E+22	5,781895E+22	5,782017E+22	1,508701E+23	1,156391E+23	2,665092E+23
-933	7,543385E+22	7,543275E+22	5,782003E+22	5,781889E+22	1,508666E+23	1,156389E+23	2,665055E+23
-932	7,543349E+22	7,543426E+22	5,782094E+22	5,782113E+22	1,508678E+23	1,156421E+23	2,665098E+23
-931	7,543588E+22	7,543424E+22	5,782029E+22	5,782128E+22	1,508701E+23	1,156416E+23	2,665117E+23
-930	7,543234E+22	7,543418E+22	5,782178E+22	5,782087E+22	1,508665E+23	1,156426E+23	2,665092E+23
-929	7,543429E+22	7,543513E+22	5,782200E+22	5,782303E+22	1,508694E+23	1,156450E+23	2,665144E+23
-928	7,543515E+22	7,543350E+22	5,782232E+22	5,782158E+22	1,508687E+23	1,156439E+23	2,665126E+23
-927	7,543194E+22	7,543404E+22	5,782385E+22	5,782203E+22	1,508660E+23	1,156459E+23	2,665119E+23
-926	7,543516E+22	7,543488E+22	5,782236E+22	5,782347E+22	1,508700E+23	1,156458E+23	2,665159E+23
-925	7,543378E+22	7,543315E+22	5,782242E+22	5,782178E+22	1,508669E+23	1,156442E+23	2,665111E+23
-924	7,543199E+22	7,543435E+22	5,782264E+22	5,782280E+22	1,508663E+23	1,156454E+23	2,665118E+23
-923	7,543560E+22	7,543438E+22	5,782094E+22	5,782204E+22	1,508700E+23	1,156430E+23	2,665130E+23
-922	7,543301E+22	7,543322E+22	5,782146E+22	5,781976E+22	1,508662E+23	1,156412E+23	2,665074E+23
-921	7,543422E+22	7,543430E+22	5,782091E+22	5,782098E+22	1,508685E+23	1,156419E+23	2,665104E+23
-920	7,543584E+22	7,543381E+22	5,781984E+22	5,781957E+22	1,508697E+23	1,156394E+23	2,665091E+23
-919	7,543157E+22	7,543423E+22	5,782080E+22	5,781959E+22	1,508658E+23	1,156404E+23	2,665062E+23
-918	7,543408E+22	7,543542E+22	5,781961E+22	5,782108E+22	1,508695E+23	1,156407E+23	2,665102E+23
-917	7,543411E+22	7,543319E+22	5,782003E+22	5,781935E+22	1,508673E+23	1,156394E+23	2,665067E+23
-916	7,543174E+22	7,543349E+22	5,782128E+22	5,782042E+22	1,508652E+23	1,156417E+23	2,665069E+23
-915	7,543579E+22	7,543410E+22	5,782026E+22	5,782120E+22	1,508699E+23	1,156415E+23	2,665113E+23
-914	7,543352E+22	7,543295E+22	5,782135E+22	5,782030E+22	1,508665E+23	1,156417E+23	2,665081E+23
-913	7,543302E+22	7,543433E+22	5,782188E+22	5,782266E+22	1,508673E+23	1,156445E+23	2,665119E+23
-912	7,543554E+22	7,543439E+22	5,782164E+22	5,782255E+22	1,508699E+23	1,156442E+23	2,665141E+23
-911	7,543171E+22	7,543373E+22	5,782377E+22	5,782233E+22	1,508654E+23	1,156461E+23	2,665115E+23
-910	7,543383E+22	7,543482E+22	5,782361E+22	5,782402E+22	1,508686E+23	1,156476E+23	2,665163E+23
-909	7,543511E+22	7,543308E+22	5,782389E+22	5,782296E+22	1,508682E+23	1,156468E+23	2,665150E+23
-908	7,543141E+22	7,543321E+22	5,782488E+22	5,782391E+22	1,508646E+23	1,156488E+23	2,665134E+23
-907	7,543470E+22	7,543460E+22	5,782325E+22	5,782484E+22	1,508693E+23	1,156481E+23	2,665174E+23
-906	7,543340E+22	7,543302E+22	5,782348E+22	5,782286E+22	1,508664E+23	1,156463E+23	2,665128E+23
-905	7,543223E+22	7,543361E+22	5,782335E+22	5,782342E+22	1,508658E+23	1,156468E+23	2,665126E+23
-904	7,543607E+22	7,543406E+22	5,782194E+22	5,782246E+22	1,508701E+23	1,156444E+23	2,665145E+23
-903	7,543278E+22	7,543306E+22	5,782281E+22	5,782088E+22	1,508658E+23	1,156437E+23	2,665095E+23
-902	7,543327E+22	7,543479E+22	5,782181E+22	5,782200E+22	1,508681E+23	1,156438E+23	2,665119E+23
-901	7,543507E+22	7,543418E+22	5,782103E+22	5,782102E+22	1,508692E+23	1,156421E+23	2,665113E+23
-900	7,543079E+22	7,543337E+22	5,782203E+22	5,782120E+22	1,508642E+23	1,156432E+23	2,665074E+23
-899	7,543385E+22	7,543457E+22	5,782107E+22	5,782209E+22	1,508684E+23	1,156432E+23	2,665116E+23
-898	7,543421E+22	7,543253E+22	5,782158E+22	5,782049E+22	1,508667E+23	1,156421E+23	2,665088E+23
-897	7,543205E+22	7,543265E+22	5,782215E+22	5,782175E+22	1,508647E+23	1,156439E+23	2,665086E+23
-896	7,543579E+22	7,543419E+22	5,782117E+22	5,782265E+22	1,508700E+23	1,156438E+23	2,665138E+23
-895	7,543278E+22	7,543309E+22	5,782270E+22	5,782211E+22	1,508659E+23	1,156448E+23	2,665107E+23
-894	7,543219E+22	7,543459E+22	5,782324E+22	5,782369E+22	1,508668E+23	1,156469E+23	2,665137E+23

1	14	15	16	17	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							
-893	7,543547E+22	7,543419E+22	5,782345E+22	5,782361E+22	1,508697E+23	1,156471E+23	2,665167E+23
-892	7,543151E+22	7,543256E+22	5,782552E+22	5,782374E+22	1,508641E+23	1,156493E+23	2,665133E+23
-891	7,543361E+22	7,543428E+22	5,782515E+22	5,782531E+22	1,508679E+23	1,156505E+23	2,665183E+23
-890	7,543453E+22	7,543306E+22	5,782517E+22	5,782460E+22	1,508676E+23	1,156498E+23	2,665174E+23
-889	7,543102E+22	7,543282E+22	5,782549E+22	5,782546E+22	1,508638E+23	1,156509E+23	2,665148E+23
-888	7,543474E+22	7,543444E+22	5,782413E+22	5,782584E+22	1,508692E+23	1,156500E+23	2,665191E+23
-887	7,543323E+22	7,543265E+22	5,782481E+22	5,782383E+22	1,508659E+23	1,156486E+23	2,665145E+23
-886	7,543212E+22	7,543362E+22	5,782444E+22	5,782384E+22	1,508657E+23	1,156483E+23	2,665140E+23
-885	7,543607E+22	7,543410E+22	5,782309E+22	5,782338E+22	1,508702E+23	1,156465E+23	2,665166E+23
-884	7,543184E+22	7,543261E+22	5,782381E+22	5,782252E+22	1,508645E+23	1,156463E+23	2,665108E+23
-883	7,543233E+22	7,543462E+22	5,782287E+22	5,782329E+22	1,508669E+23	1,156462E+23	2,665131E+23
-882	7,543438E+22	7,543366E+22	5,782238E+22	5,782222E+22	1,508680E+23	1,156446E+23	2,665126E+23
-881	7,543097E+22	7,543213E+22	5,782291E+22	5,782219E+22	1,508631E+23	1,156451E+23	2,665082E+23
-880	7,543451E+22	7,543375E+22	5,782211E+22	5,782291E+22	1,508683E+23	1,156450E+23	2,665133E+23
-879	7,543415E+22	7,543232E+22	5,782281E+22	5,782194E+22	1,508665E+23	1,156447E+23	2,665112E+23
-878	7,543148E+22	7,543331E+22	5,782306E+22	5,782290E+22	1,508648E+23	1,156460E+23	2,665108E+23
-877	7,543535E+22	7,543478E+22	5,782258E+22	5,782406E+22	1,508701E+23	1,156466E+23	2,665168E+23
-876	7,543205E+22	7,543268E+22	5,782451E+22	5,782371E+22	1,508647E+23	1,156482E+23	2,665130E+23
-875	7,543179E+22	7,543410E+22	5,782527E+22	5,782477E+22	1,508659E+23	1,156500E+23	2,665159E+23
-874	7,543519E+22	7,543360E+22	5,782551E+22	5,782504E+22	1,508688E+23	1,156505E+23	2,665193E+23
-873	7,543141E+22	7,543160E+22	5,782660E+22	5,782554E+22	1,508630E+23	1,156521E+23	2,665152E+23
-872	7,543331E+22	7,543397E+22	5,782603E+22	5,782706E+22	1,508673E+23	1,156531E+23	2,665204E+23
-871	7,543391E+22	7,543293E+22	5,782617E+22	5,782645E+22	1,508668E+23	1,156526E+23	2,665195E+23
-870	7,543072E+22	7,543276E+22	5,782622E+22	5,782612E+22	1,508635E+23	1,156523E+23	2,665158E+23
-869	7,543511E+22	7,543428E+22	5,782528E+22	5,782636E+22	1,508694E+23	1,156516E+23	2,665210E+23
-868	7,543323E+22	7,543199E+22	5,782603E+22	5,782462E+22	1,508652E+23	1,156506E+23	2,665159E+23
-867	7,543167E+22	7,543358E+22	5,782566E+22	5,782455E+22	1,508653E+23	1,156502E+23	2,665155E+23
-866	7,543511E+22	7,543439E+22	5,782440E+22	5,782463E+22	1,508695E+23	1,156490E+23	2,665185E+23
-865	7,543116E+22	7,543201E+22	5,782463E+22	5,782397E+22	1,508632E+23	1,156486E+23	2,665118E+23
-864	7,543208E+22	7,543393E+22	5,782403E+22	5,782439E+22	1,508660E+23	1,156484E+23	2,665144E+23
-863	7,543423E+22	7,543287E+22	5,782376E+22	5,782352E+22	1,508671E+23	1,156473E+23	2,665144E+23
-862	7,543107E+22	7,543176E+22	5,782384E+22	5,782298E+22	1,508628E+23	1,156468E+23	2,665096E+23
-861	7,543476E+22	7,543386E+22	5,782311E+22	5,782423E+22	1,508686E+23	1,156473E+23	2,665160E+23
-860	7,543348E+22	7,543227E+22	5,782388E+22	5,782372E+22	1,508657E+23	1,156476E+23	2,665134E+23
-859	7,543075E+22	7,543352E+22	5,782453E+22	5,782417E+22	1,508643E+23	1,156487E+23	2,665130E+23
-858	7,543473E+22	7,543463E+22	5,782457E+22	5,782525E+22	1,508694E+23	1,156498E+23	2,665192E+23
-857	7,543198E+22	7,543163E+22	5,782609E+22	5,782504E+22	1,508636E+23	1,156511E+23	2,665147E+23
-856	7,543194E+22	7,543329E+22	5,782687E+22	5,782612E+22	1,508652E+23	1,156530E+23	2,665182E+23
-855	7,543461E+22	7,543320E+22	5,782692E+22	5,782701E+22	1,508678E+23	1,156539E+23	2,665217E+23
-854	7,543077E+22	7,543182E+22	5,782736E+22	5,782702E+22	1,508626E+23	1,156544E+23	2,665170E+23
-853	7,543322E+22	7,543404E+22	5,782695E+22	5,782843E+22	1,508673E+23	1,156554E+23	2,665226E+23
-852	7,543353E+22	7,543237E+22	5,782740E+22	5,782760E+22	1,508659E+23	1,156550E+23	2,665209E+23
-851	7,543077E+22	7,543250E+22	5,782767E+22	5,782655E+22	1,508633E+23	1,156542E+23	2,665175E+23
-850	7,543499E+22	7,543401E+22	5,782693E+22	5,782703E+22	1,508690E+23	1,156540E+23	2,665230E+23
-849	7,543289E+22	7,543148E+22	5,782693E+22	5,782590E+22	1,508644E+23	1,156528E+23	2,665172E+23
-848	7,543101E+22	7,543338E+22	5,782657E+22	5,782590E+22	1,508644E+23	1,156525E+23	2,665169E+23
-847	7,543402E+22	7,543406E+22	5,782550E+22	5,782627E+22	1,508681E+23	1,156518E+23	2,665198E+23
-846	7,543076E+22	7,543153E+22	5,782543E+22	5,782476E+22	1,508623E+23	1,156502E+23	2,665125E+23
-845	7,543257E+22	7,543329E+22	5,782505E+22	5,782525E+22	1,508659E+23	1,156503E+23	2,665162E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,543429E+22	7,543216E+22	5,782487E+22	5,782475E+22	1,508665E+23	1,156496E+23	2,665161E+23
-843	7,543089E+22	7,543202E+22	5,782493E+22	5,782397E+22	1,508629E+23	1,156489E+23	2,665118E+23
-842	7,543406E+22	7,543444E+22	5,782460E+22	5,782556E+22	1,508685E+23	1,156502E+23	2,665187E+23
-841	7,543296E+22	7,543208E+22	5,782517E+22	5,782525E+22	1,508650E+23	1,156504E+23	2,665155E+23
-840	7,543040E+22	7,543304E+22	5,782638E+22	5,782540E+22	1,508634E+23	1,156518E+23	2,665152E+23
-839	7,543424E+22	7,543399E+22	5,782661E+22	5,782690E+22	1,508682E+23	1,156535E+23	2,665217E+23
-838	7,543179E+22	7,543097E+22	5,782744E+22	5,782637E+22	1,508628E+23	1,156538E+23	2,665166E+23
-837	7,543184E+22	7,543298E+22	5,782797E+22	5,782798E+22	1,508648E+23	1,156559E+23	2,665208E+23
-836	7,543388E+22	7,543281E+22	5,782787E+22	5,782903E+22	1,508667E+23	1,156569E+23	2,665236E+23
-835	7,543037E+22	7,543171E+22	5,782841E+22	5,782807E+22	1,508621E+23	1,156565E+23	2,665186E+23
-834	7,543315E+22	7,543384E+22	5,782850E+22	5,782911E+22	1,508670E+23	1,156576E+23	2,665246E+23
-833	7,543385E+22	7,543160E+22	5,782853E+22	5,782829E+22	1,508655E+23	1,156568E+23	2,665223E+23
-832	7,543090E+22	7,543211E+22	5,782904E+22	5,782727E+22	1,508630E+23	1,156563E+23	2,665193E+23
-831	7,543407E+22	7,543414E+22	5,782822E+22	5,782849E+22	1,508682E+23	1,156567E+23	2,665249E+23
-830	7,543185E+22	7,543168E+22	5,782772E+22	5,782711E+22	1,508635E+23	1,156548E+23	2,665184E+23
-829	7,543055E+22	7,543321E+22	5,782753E+22	5,782730E+22	1,508638E+23	1,156548E+23	2,665186E+23
-828	7,543346E+22	7,543319E+22	5,782669E+22	5,782761E+22	1,508666E+23	1,156543E+23	2,665210E+23
-827	7,543092E+22	7,543097E+22	5,782662E+22	5,782548E+22	1,508619E+23	1,156521E+23	2,665140E+23
-826	7,543277E+22	7,543296E+22	5,782639E+22	5,782621E+22	1,508657E+23	1,156526E+23	2,665183E+23
-825	7,543415E+22	7,543188E+22	5,782562E+22	5,782622E+22	1,508660E+23	1,156518E+23	2,665179E+23
-824	7,543053E+22	7,543211E+22	5,782607E+22	5,782535E+22	1,508626E+23	1,156514E+23	2,665141E+23
-823	7,543311E+22	7,543432E+22	5,782617E+22	5,782704E+22	1,508674E+23	1,156532E+23	2,665206E+23
-822	7,543253E+22	7,543169E+22	5,782662E+22	5,782616E+22	1,508642E+23	1,156528E+23	2,665170E+23
-821	7,543068E+22	7,543233E+22	5,782790E+22	5,782665E+22	1,508630E+23	1,156546E+23	2,665176E+23
-820	7,543371E+22	7,543312E+22	5,782811E+22	5,782865E+22	1,508668E+23	1,156568E+23	2,665236E+23
-819	7,543133E+22	7,543098E+22	5,782865E+22	5,782788E+22	1,508623E+23	1,156565E+23	2,665188E+23
-818	7,543134E+22	7,543304E+22	5,782935E+22	5,782952E+22	1,508644E+23	1,156589E+23	2,665232E+23
-817	7,543365E+22	7,543236E+22	5,782895E+22	5,783045E+22	1,508660E+23	1,156594E+23	2,665254E+23
-816	7,543058E+22	7,543128E+22	5,782994E+22	5,782888E+22	1,508619E+23	1,156588E+23	2,665207E+23
-815	7,543289E+22	7,543352E+22	5,783021E+22	5,783014E+22	1,508664E+23	1,156603E+23	2,665268E+23
-814	7,543358E+22	7,543150E+22	5,782966E+22	5,782920E+22	1,508651E+23	1,156589E+23	2,665239E+23
-813	7,543047E+22	7,543219E+22	5,782996E+22	5,782886E+22	1,508627E+23	1,156588E+23	2,665215E+23
-812	7,543275E+22	7,543384E+22	5,782920E+22	5,783032E+22	1,508666E+23	1,156595E+23	2,665261E+23
-811	7,543123E+22	7,543132E+22	5,782874E+22	5,782813E+22	1,508626E+23	1,156569E+23	2,665194E+23
-810	7,543055E+22	7,543251E+22	5,782888E+22	5,782807E+22	1,508631E+23	1,156570E+23	2,665200E+23
-809	7,543396E+22	7,543211E+22	5,782754E+22	5,782849E+22	1,508661E+23	1,156560E+23	2,665221E+23
-808	7,543134E+22	7,543053E+22	5,782763E+22	5,782626E+22	1,508619E+23	1,156539E+23	2,665158E+23
-807	7,543218E+22	7,543335E+22	5,782749E+22	5,782756E+22	1,508655E+23	1,156550E+23	2,665206E+23
-806	7,543351E+22	7,543225E+22	5,782648E+22	5,782723E+22	1,508658E+23	1,156537E+23	2,665195E+23
-805	7,543015E+22	7,543210E+22	5,782744E+22	5,782667E+22	1,508622E+23	1,156541E+23	2,665164E+23
-804	7,543227E+22	7,543367E+22	5,782799E+22	5,782848E+22	1,508659E+23	1,156565E+23	2,665224E+23
-803	7,543231E+22	7,543104E+22	5,782838E+22	5,782730E+22	1,508634E+23	1,156557E+23	2,665190E+23
-802	7,543050E+22	7,543177E+22	5,782964E+22	5,782824E+22	1,508623E+23	1,156579E+23	2,665202E+23
-801	7,543334E+22	7,543250E+22	5,782900E+22	5,783068E+22	1,508658E+23	1,156597E+23	2,665255E+23
-800	7,543110E+22	7,543067E+22	5,782974E+22	5,782947E+22	1,508618E+23	1,156592E+23	2,665210E+23
-799	7,543087E+22	7,543289E+22	5,783070E+22	5,783092E+22	1,508638E+23	1,156616E+23	2,665254E+23
-798	7,543370E+22	7,543207E+22	5,783014E+22	5,783107E+22	1,508658E+23	1,156612E+23	2,665270E+23
-797	7,543101E+22	7,543109E+22	5,783127E+22	5,782984E+22	1,508621E+23	1,156611E+23	2,665232E+23
-796	7,543212E+22	7,543329E+22	5,783165E+22	5,783151E+22	1,508654E+23	1,156632E+23	2,665286E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-795	7,543273E+22	7,543182E+22	5,783086E+22	5,783045E+22	1,508646E+23	1,156613E+23	2,665259E+23
-794	7,542970E+22	7,543211E+22	5,783133E+22	5,783024E+22	1,508618E+23	1,156616E+23	2,665234E+23
-793	7,543225E+22	7,543294E+22	5,783017E+22	5,783166E+22	1,508652E+23	1,156618E+23	2,665270E+23
-792	7,543159E+22	7,543039E+22	5,782997E+22	5,782895E+22	1,508620E+23	1,156589E+23	2,665209E+23
-791	7,543069E+22	7,543180E+22	5,783002E+22	5,782902E+22	1,508625E+23	1,156590E+23	2,665215E+23
-790	7,543402E+22	7,543192E+22	5,782817E+22	5,782929E+22	1,508659E+23	1,156575E+23	2,665234E+23
-789	7,543128E+22	7,543090E+22	5,782821E+22	5,782760E+22	1,508622E+23	1,156558E+23	2,665180E+23
-788	7,543095E+22	7,543335E+22	5,782862E+22	5,782899E+22	1,508643E+23	1,156576E+23	2,665219E+23
-787	7,543284E+22	7,543225E+22	5,782795E+22	5,782813E+22	1,508651E+23	1,156561E+23	2,665212E+23
-786	7,542999E+22	7,543145E+22	5,782937E+22	5,782768E+22	1,508614E+23	1,156570E+23	2,665185E+23
-785	7,543216E+22	7,543254E+22	5,782942E+22	5,782995E+22	1,508647E+23	1,156594E+23	2,665241E+23
-784	7,543232E+22	7,543043E+22	5,782978E+22	5,782887E+22	1,508628E+23	1,156587E+23	2,665214E+23
-783	7,542981E+22	7,543178E+22	5,783085E+22	5,783019E+22	1,508616E+23	1,156610E+23	2,665226E+23
-782	7,543294E+22	7,543253E+22	5,782993E+22	5,783208E+22	1,508655E+23	1,156620E+23	2,665275E+23
-781	7,543125E+22	7,543069E+22	5,783095E+22	5,783080E+22	1,508619E+23	1,156617E+23	2,665237E+23
-780	7,543046E+22	7,543252E+22	5,783243E+22	5,783208E+22	1,508630E+23	1,156645E+23	2,665275E+23
-779	7,543366E+22	7,543194E+22	5,783182E+22	5,783191E+22	1,508656E+23	1,156637E+23	2,665293E+23
-778	7,543065E+22	7,543098E+22	5,783300E+22	5,783121E+22	1,508616E+23	1,156642E+23	2,665258E+23
-777	7,543125E+22	7,543288E+22	5,783262E+22	5,783332E+22	1,508641E+23	1,156659E+23	2,665301E+23
-776	7,543218E+22	7,543118E+22	5,783197E+22	5,783183E+22	1,508634E+23	1,156638E+23	2,665272E+23
-775	7,542922E+22	7,543143E+22	5,783247E+22	5,783142E+22	1,508607E+23	1,156639E+23	2,665245E+23
-774	7,543260E+22	7,543203E+22	5,783084E+22	5,783213E+22	1,508646E+23	1,156630E+23	2,665276E+23
-773	7,543224E+22	7,542999E+22	5,783058E+22	5,782972E+22	1,508622E+23	1,156603E+23	2,665225E+23
-772	7,543018E+22	7,543187E+22	5,783088E+22	5,783013E+22	1,508620E+23	1,156610E+23	2,665231E+23
-771	7,543335E+22	7,543258E+22	5,782909E+22	5,783017E+22	1,508659E+23	1,156593E+23	2,665252E+23
-770	7,543059E+22	7,543120E+22	5,782976E+22	5,782875E+22	1,508618E+23	1,156585E+23	2,665203E+23
-769	7,543022E+22	7,543273E+22	5,783006E+22	5,783028E+22	1,508630E+23	1,156603E+23	2,665233E+23
-768	7,543277E+22	7,543130E+22	5,782978E+22	5,782927E+22	1,508641E+23	1,156590E+23	2,665231E+23
-767	7,542974E+22	7,543065E+22	5,783102E+22	5,782930E+22	1,508604E+23	1,156603E+23	2,665207E+23
-766	7,543196E+22	7,543196E+22	5,783034E+22	5,783155E+22	1,508639E+23	1,156619E+23	2,665258E+23
-765	7,543223E+22	7,543047E+22	5,783047E+22	5,783086E+22	1,508627E+23	1,156613E+23	2,665240E+23
-764	7,542905E+22	7,543161E+22	5,783200E+22	5,783188E+22	1,508607E+23	1,156639E+23	2,665245E+23
-763	7,543280E+22	7,543252E+22	5,783140E+22	5,783290E+22	1,508653E+23	1,156643E+23	2,665296E+23
-762	7,543156E+22	7,543043E+22	5,783290E+22	5,783160E+22	1,508620E+23	1,156645E+23	2,665265E+23
-761	7,543027E+22	7,543188E+22	5,783398E+22	5,783328E+22	1,508622E+23	1,156673E+23	2,665294E+23
-760	7,543338E+22	7,543171E+22	5,783340E+22	5,783328E+22	1,508651E+23	1,156667E+23	2,665318E+23
-759	7,542967E+22	7,543089E+22	5,783430E+22	5,783294E+22	1,508606E+23	1,156672E+23	2,665278E+23
-758	7,543050E+22	7,543240E+22	5,783348E+22	5,783457E+22	1,508629E+23	1,156681E+23	2,665310E+23
-757	7,543225E+22	7,543075E+22	5,783276E+22	5,783304E+22	1,508630E+23	1,156658E+23	2,665288E+23
-756	7,542897E+22	7,543067E+22	5,783355E+22	5,783241E+22	1,508596E+23	1,156660E+23	2,665256E+23
-755	7,543275E+22	7,543187E+22	5,783182E+22	5,783275E+22	1,508646E+23	1,156646E+23	2,665292E+23
-754	7,543216E+22	7,543022E+22	5,783165E+22	5,783076E+22	1,508624E+23	1,156624E+23	2,665248E+23
-753	7,542935E+22	7,543184E+22	5,783165E+22	5,783149E+22	1,508612E+23	1,156631E+23	2,665243E+23
-752	7,543281E+22	7,543231E+22	5,783042E+22	5,783121E+22	1,508651E+23	1,156616E+23	2,665268E+23
-751	7,543000E+22	7,543067E+22	5,783138E+22	5,782990E+22	1,508607E+23	1,156613E+23	2,665219E+23
-750	7,543017E+22	7,543177E+22	5,783134E+22	5,783119E+22	1,508619E+23	1,156625E+23	2,665245E+23
-749	7,543303E+22	7,543078E+22	5,783082E+22	5,783076E+22	1,508638E+23	1,156616E+23	2,665254E+23
-748	7,542907E+22	7,543043E+22	5,783216E+22	5,783113E+22	1,508595E+23	1,156633E+23	2,665228E+23
-747	7,543152E+22	7,543224E+22	5,783141E+22	5,783296E+22	1,508638E+23	1,156644E+23	2,665281E+23

1	14	15	16	17	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	7,543201E+22	7,543065E+22	5,783206E+22	5,783223E+22	1,508627E+23	1,156643E+23	2,665270E+23
-745	7,542884E+22	7,543116E+22	5,783356E+22	5,783314E+22	1,508600E+23	1,156667E+23	2,665267E+23
-744	7,543304E+22	7,543182E+22	5,783339E+22	5,783383E+22	1,508649E+23	1,156672E+23	2,665321E+23
-743	7,543120E+22	7,543009E+22	5,783479E+22	5,783307E+22	1,508613E+23	1,156679E+23	2,665292E+23
-742	7,542966E+22	7,543155E+22	5,783502E+22	5,783481E+22	1,508612E+23	1,156698E+23	2,665310E+23
-741	7,543267E+22	7,543163E+22	5,783413E+22	5,783517E+22	1,508643E+23	1,156693E+23	2,665336E+23
-740	7,542865E+22	7,543038E+22	5,783535E+22	5,783456E+22	1,508590E+23	1,156699E+23	2,665289E+23
-739	7,543040E+22	7,543182E+22	5,783454E+22	5,783526E+22	1,508622E+23	1,156698E+23	2,665320E+23
-738	7,543270E+22	7,543028E+22	5,783402E+22	5,783370E+22	1,508630E+23	1,156677E+23	2,665307E+23
-737	7,542903E+22	7,543019E+22	5,783434E+22	5,783330E+22	1,508592E+23	1,156676E+23	2,665269E+23
-736	7,543260E+22	7,543189E+22	5,783288E+22	5,783364E+22	1,508645E+23	1,156665E+23	2,665310E+23
-735	7,543130E+22	7,543060E+22	5,783286E+22	5,783199E+22	1,508619E+23	1,156649E+23	2,665268E+23
-734	7,542865E+22	7,543157E+22	5,783274E+22	5,783244E+22	1,508602E+23	1,156652E+23	2,665254E+23
-733	7,543261E+22	7,543194E+22	5,783165E+22	5,783241E+22	1,508646E+23	1,156641E+23	2,665286E+23
-732	7,542954E+22	7,542978E+22	5,783295E+22	5,783128E+22	1,508593E+23	1,156642E+23	2,665236E+23
-731	7,543004E+22	7,543126E+22	5,783267E+22	5,783246E+22	1,508613E+23	1,156651E+23	2,665264E+23
-730	7,543285E+22	7,543077E+22	5,783205E+22	5,783251E+22	1,508636E+23	1,156646E+23	2,665282E+23
-729	7,542843E+22	7,543012E+22	5,783300E+22	5,783291E+22	1,508585E+23	1,156659E+23	2,665245E+23
-728	7,543146E+22	7,543185E+22	5,783287E+22	5,783415E+22	1,508633E+23	1,156670E+23	2,665303E+23
-727	7,543191E+22	7,543031E+22	5,783378E+22	5,783325E+22	1,508622E+23	1,156670E+23	2,665293E+23
-726	7,542889E+22	7,543052E+22	5,783503E+22	5,783400E+22	1,508594E+23	1,156690E+23	2,665284E+23
-725	7,543293E+22	7,543180E+22	5,783467E+22	5,783531E+22	1,508647E+23	1,156700E+23	2,665347E+23
-724	7,543004E+22	7,543006E+22	5,783621E+22	5,783497E+22	1,508601E+23	1,156712E+23	2,665313E+23
-723	7,542871E+22	7,543162E+22	5,783628E+22	5,783631E+22	1,508603E+23	1,156726E+23	2,665329E+23
-722	7,543223E+22	7,543142E+22	5,783557E+22	5,783657E+22	1,508637E+23	1,156721E+23	2,665358E+23
-721	7,542846E+22	7,542946E+22	5,783647E+22	5,783570E+22	1,508579E+23	1,156722E+23	2,665301E+23
-720	7,543097E+22	7,543088E+22	5,783589E+22	5,783597E+22	1,508619E+23	1,156719E+23	2,665337E+23
-719	7,543267E+22	7,543009E+22	5,783521E+22	5,783471E+22	1,508628E+23	1,156699E+23	2,665327E+23
-718	7,542868E+22	7,543021E+22	5,783495E+22	5,783435E+22	1,508589E+23	1,156693E+23	2,665282E+23
-717	7,543203E+22	7,543218E+22	5,783353E+22	5,783490E+22	1,508642E+23	1,156684E+23	2,665326E+23
-716	7,543028E+22	7,543033E+22	5,783420E+22	5,783321E+22	1,508606E+23	1,156674E+23	2,665280E+23
-715	7,542835E+22	7,543102E+22	5,783417E+22	5,783315E+22	1,508594E+23	1,156673E+23	2,665267E+23
-714	7,543262E+22	7,543139E+22	5,783321E+22	5,783351E+22	1,508640E+23	1,156667E+23	2,665307E+23
-713	7,542928E+22	7,542914E+22	5,783398E+22	5,783286E+22	1,508584E+23	1,156668E+23	2,665253E+23
-712	7,542994E+22	7,543084E+22	5,783378E+22	5,783392E+22	1,508608E+23	1,156677E+23	2,665285E+23
-711	7,543222E+22	7,543089E+22	5,783332E+22	5,783406E+22	1,508631E+23	1,156674E+23	2,665305E+23
-710	7,542824E+22	7,542985E+22	5,783412E+22	5,783399E+22	1,508581E+23	1,156681E+23	2,665262E+23
-709	7,543149E+22	7,543165E+22	5,783426E+22	5,783526E+22	1,508631E+23	1,156695E+23	2,665327E+23
-708	7,543146E+22	7,542991E+22	5,783568E+22	5,783466E+22	1,508614E+23	1,156703E+23	2,665317E+23
-707	7,542844E+22	7,543035E+22	5,783666E+22	5,783540E+22	1,508588E+23	1,156721E+23	2,665308E+23
-706	7,543214E+22	7,543193E+22	5,783615E+22	5,783721E+22	1,508641E+23	1,156734E+23	2,665374E+23
-705	7,542908E+22	7,542949E+22	5,783728E+22	5,783689E+22	1,508586E+23	1,156742E+23	2,665327E+23
-704	7,542863E+22	7,543060E+22	5,783770E+22	5,783748E+22	1,508592E+23	1,156752E+23	2,665344E+23
-703	7,543232E+22	7,543071E+22	5,783700E+22	5,783747E+22	1,508630E+23	1,156745E+23	2,665375E+23
-702	7,542897E+22	7,542873E+22	5,783731E+22	5,783633E+22	1,508577E+23	1,156736E+23	2,665313E+23
-701	7,543117E+22	7,543106E+22	5,783656E+22	5,783697E+22	1,508622E+23	1,156735E+23	2,665358E+23
-700	7,543177E+22	7,543051E+22	5,783624E+22	5,783600E+22	1,508623E+23	1,156722E+23	2,665345E+23
-699	7,542780E+22	7,543058E+22	5,783614E+22	5,783531E+22	1,508584E+23	1,156714E+23	2,665298E+23
-698	7,543138E+22	7,543226E+22	5,783509E+22	5,783597E+22	1,508636E+23	1,156711E+23	2,665347E+23

1	14	15	16	17	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							
-697	7,542976E+22	7,542935E+22	5,783558E+22	5,783442E+22	1,508591E+23	1,156700E+23	2,665291E+23
-696	7,542855E+22	7,542983E+22	5,783572E+22	5,783429E+22	1,508584E+23	1,156700E+23	2,665284E+23
-695	7,543234E+22	7,543090E+22	5,783440E+22	5,783503E+22	1,508632E+23	1,156694E+23	2,665327E+23
-694	7,542893E+22	7,542877E+22	5,783444E+22	5,783438E+22	1,508577E+23	1,156688E+23	2,665265E+23
-693	7,542972E+22	7,543094E+22	5,783437E+22	5,783538E+22	1,508607E+23	1,156697E+23	2,665304E+23
-692	7,543170E+22	7,543065E+22	5,783473E+22	5,783524E+22	1,508624E+23	1,156700E+23	2,665323E+23
-691	7,542825E+22	7,542960E+22	5,783582E+22	5,783467E+22	1,508579E+23	1,156705E+23	2,665283E+23
-690	7,543143E+22	7,543159E+22	5,783615E+22	5,783638E+22	1,508630E+23	1,156725E+23	2,665355E+23
-689	7,543073E+22	7,542957E+22	5,783723E+22	5,783642E+22	1,508603E+23	1,156736E+23	2,665339E+23
-688	7,542790E+22	7,542993E+22	5,783828E+22	5,783716E+22	1,508578E+23	1,156754E+23	2,665333E+23
-687	7,543124E+22	7,543169E+22	5,783774E+22	5,783893E+22	1,508629E+23	1,156767E+23	2,665396E+23
-686	7,542896E+22	7,542871E+22	5,783837E+22	5,783818E+22	1,508577E+23	1,156765E+23	2,665342E+23
-685	7,542907E+22	7,543001E+22	5,783869E+22	5,783855E+22	1,508591E+23	1,156772E+23	2,665363E+23
-684	7,543226E+22	7,543030E+22	5,783834E+22	5,783862E+22	1,508626E+23	1,156770E+23	2,665395E+23
-683	7,542883E+22	7,542895E+22	5,783832E+22	5,783729E+22	1,508578E+23	1,156756E+23	2,665334E+23
-682	7,543044E+22	7,543167E+22	5,783759E+22	5,783824E+22	1,508621E+23	1,156758E+23	2,665379E+23
-681	7,543074E+22	7,543035E+22	5,783726E+22	5,783736E+22	1,508611E+23	1,156746E+23	2,665357E+23
-680	7,542762E+22	7,542959E+22	5,783758E+22	5,783614E+22	1,508572E+23	1,156737E+23	2,665309E+23
-679	7,543100E+22	7,543144E+22	5,783660E+22	5,783684E+22	1,508624E+23	1,156734E+23	2,665359E+23
-678	7,542993E+22	7,542839E+22	5,783637E+22	5,783545E+22	1,508583E+23	1,156718E+23	2,665301E+23
-677	7,542857E+22	7,542957E+22	5,783623E+22	5,783567E+22	1,508581E+23	1,156719E+23	2,665300E+23
-676	7,543161E+22	7,543098E+22	5,783536E+22	5,783660E+22	1,508626E+23	1,156720E+23	2,665346E+23
-675	7,542856E+22	7,542899E+22	5,783552E+22	5,783537E+22	1,508576E+23	1,156709E+23	2,665285E+23
-674	7,542951E+22	7,543114E+22	5,783596E+22	5,783634E+22	1,508607E+23	1,156723E+23	2,665329E+23
-673	7,543144E+22	7,543009E+22	5,783646E+22	5,783642E+22	1,508615E+23	1,156729E+23	2,665344E+23
-672	7,542838E+22	7,542875E+22	5,783787E+22	5,783597E+22	1,508571E+23	1,156738E+23	2,665310E+23
-671	7,543060E+22	7,543146E+22	5,783797E+22	5,783818E+22	1,508621E+23	1,156761E+23	2,665382E+23
-670	7,543001E+22	7,542913E+22	5,783824E+22	5,783841E+22	1,508591E+23	1,156766E+23	2,665358E+23
-669	7,542754E+22	7,542950E+22	5,783923E+22	5,783893E+22	1,508570E+23	1,156782E+23	2,665352E+23
-668	7,543090E+22	7,543098E+22	5,783917E+22	5,784032E+22	1,508619E+23	1,156795E+23	2,665414E+23
-667	7,542928E+22	7,542827E+22	5,783961E+22	5,783891E+22	1,508576E+23	1,156785E+23	2,665361E+23
-666	7,542937E+22	7,543021E+22	5,783989E+22	5,783952E+22	1,508596E+23	1,156794E+23	2,665390E+23
-665	7,543172E+22	7,543033E+22	5,783933E+22	5,783991E+22	1,508621E+23	1,156792E+23	2,665413E+23
-664	7,542833E+22	7,542896E+22	5,783964E+22	5,783844E+22	1,508573E+23	1,156781E+23	2,665354E+23
-663	7,542940E+22	7,543171E+22	5,783908E+22	5,783926E+22	1,508611E+23	1,156783E+23	2,665394E+23
-662	7,543029E+22	7,542949E+22	5,783834E+22	5,783832E+22	1,508598E+23	1,156767E+23	2,665364E+23
-661	7,542776E+22	7,542869E+22	5,783860E+22	5,783718E+22	1,508565E+23	1,156758E+23	2,665322E+23
-660	7,543073E+22	7,543061E+22	5,783781E+22	5,783817E+22	1,508613E+23	1,156760E+23	2,665373E+23
-659	7,542972E+22	7,542830E+22	5,783707E+22	5,783669E+22	1,508580E+23	1,156738E+23	2,665318E+23
-658	7,542820E+22	7,543002E+22	5,783689E+22	5,783707E+22	1,508582E+23	1,156740E+23	2,665322E+23
-657	7,543101E+22	7,543072E+22	5,783639E+22	5,783785E+22	1,508617E+23	1,156742E+23	2,665360E+23
-656	7,542880E+22	7,542836E+22	5,783722E+22	5,783613E+22	1,508572E+23	1,156734E+23	2,665305E+23
-655	7,542926E+22	7,543081E+22	5,783795E+22	5,783715E+22	1,508601E+23	1,156751E+23	2,665352E+23
-654	7,543131E+22	7,542956E+22	5,783786E+22	5,783782E+22	1,508609E+23	1,156757E+23	2,665366E+23
-653	7,542799E+22	7,542862E+22	5,783907E+22	5,783785E+22	1,508566E+23	1,156769E+23	2,665335E+23
-652	7,542943E+22	7,543132E+22	5,783950E+22	5,784029E+22	1,508608E+23	1,156798E+23	2,665405E+23
-651	7,542951E+22	7,542895E+22	5,783956E+22	5,783993E+22	1,508585E+23	1,156795E+23	2,665380E+23
-650	7,542753E+22	7,542928E+22	5,784059E+22	5,784024E+22	1,508568E+23	1,156808E+23	2,665376E+23
-649	7,543095E+22	7,543021E+22	5,784059E+22	5,784157E+22	1,508612E+23	1,156822E+23	2,665433E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,542978E+22	7,542765E+22	5,784105E+22	5,783991E+22	1,508574E+23	1,156810E+23	2,665384E+23
-647	7,542866E+22	7,543046E+22	5,784120E+22	5,784068E+22	1,508591E+23	1,156819E+23	2,665410E+23
-646	7,543103E+22	7,543026E+22	5,784006E+22	5,784123E+22	1,508613E+23	1,156813E+23	2,665426E+23
-645	7,542789E+22	7,542853E+22	5,784058E+22	5,783954E+22	1,508564E+23	1,156801E+23	2,665365E+23
-644	7,542874E+22	7,543091E+22	5,784056E+22	5,784025E+22	1,508596E+23	1,156808E+23	2,665405E+23
-643	7,543032E+22	7,542879E+22	5,783943E+22	5,783901E+22	1,508591E+23	1,156784E+23	2,665376E+23
-642	7,542783E+22	7,542858E+22	5,783942E+22	5,783831E+22	1,508564E+23	1,156777E+23	2,665341E+23
-641	7,543022E+22	7,543038E+22	5,783854E+22	5,783965E+22	1,508606E+23	1,156782E+23	2,665388E+23
-640	7,542957E+22	7,542819E+22	5,783812E+22	5,783785E+22	1,508578E+23	1,156760E+23	2,665337E+23
-639	7,542761E+22	7,543025E+22	5,783839E+22	5,783797E+22	1,508579E+23	1,156764E+23	2,665342E+23
-638	7,543093E+22	7,543023E+22	5,783769E+22	5,783880E+22	1,508612E+23	1,156765E+23	2,665377E+23
-637	7,542897E+22	7,542784E+22	5,783879E+22	5,783733E+22	1,508568E+23	1,156761E+23	2,665329E+23
-636	7,542858E+22	7,543040E+22	5,783979E+22	5,783891E+22	1,508590E+23	1,156787E+23	2,665377E+23
-635	7,543049E+22	7,542955E+22	5,783912E+22	5,783968E+22	1,508600E+23	1,156788E+23	2,665388E+23
-634	7,542736E+22	7,542877E+22	5,784016E+22	5,783988E+22	1,508561E+23	1,156800E+23	2,665362E+23
-633	7,542890E+22	7,543040E+22	5,784077E+22	5,784195E+22	1,508593E+23	1,156827E+23	2,665420E+23
-632	7,542997E+22	7,542796E+22	5,784112E+22	5,784090E+22	1,508579E+23	1,156820E+23	2,665400E+23
-631	7,542774E+22	7,542899E+22	5,784215E+22	5,784098E+22	1,508567E+23	1,156831E+23	2,665399E+23
-630	7,543103E+22	7,542987E+22	5,784156E+22	5,784267E+22	1,508609E+23	1,156842E+23	2,665451E+23
-629	7,542948E+22	7,542791E+22	5,784205E+22	5,784122E+22	1,508574E+23	1,156833E+23	2,665407E+23
-628	7,542749E+22	7,543059E+22	5,784267E+22	5,784207E+22	1,508581E+23	1,156847E+23	2,665428E+23
-627	7,543024E+22	7,543015E+22	5,784135E+22	5,784220E+22	1,508604E+23	1,156835E+23	2,665439E+23
-626	7,542767E+22	7,542821E+22	5,784181E+22	5,784061E+22	1,508559E+23	1,156824E+23	2,665383E+23
-625	7,542847E+22	7,542976E+22	5,784183E+22	5,784149E+22	1,508582E+23	1,156833E+23	2,665415E+23
-624	7,543053E+22	7,542806E+22	5,784054E+22	5,784023E+22	1,508586E+23	1,156808E+23	2,665394E+23
-623	7,542725E+22	7,542878E+22	5,784028E+22	5,783957E+22	1,508560E+23	1,156798E+23	2,665359E+23
-622	7,542986E+22	7,543019E+22	5,783902E+22	5,784097E+22	1,508600E+23	1,156800E+23	2,665400E+23
-621	7,542961E+22	7,542792E+22	5,783909E+22	5,783876E+22	1,508575E+23	1,156779E+23	2,665354E+23
-620	7,542723E+22	7,542981E+22	5,784012E+22	5,783886E+22	1,508570E+23	1,156790E+23	2,665360E+23
-619	7,543083E+22	7,543000E+22	5,783919E+22	5,783968E+22	1,508608E+23	1,156789E+23	2,665397E+23
-618	7,542865E+22	7,542796E+22	5,784010E+22	5,783893E+22	1,508566E+23	1,156790E+23	2,665356E+23
-617	7,542755E+22	7,543002E+22	5,784120E+22	5,784096E+22	1,508576E+23	1,156822E+23	2,665397E+23
-616	7,543007E+22	7,542904E+22	5,784060E+22	5,784136E+22	1,508591E+23	1,156820E+23	2,665411E+23
-615	7,542682E+22	7,542844E+22	5,784178E+22	5,784113E+22	1,508553E+23	1,156829E+23	2,665382E+23
-614	7,542917E+22	7,542949E+22	5,784198E+22	5,784316E+22	1,508587E+23	1,156851E+23	2,665438E+23
-613	7,543056E+22	7,542732E+22	5,784245E+22	5,784199E+22	1,508579E+23	1,156844E+23	2,665423E+23
-612	7,542732E+22	7,542893E+22	5,784372E+22	5,784241E+22	1,508562E+23	1,156861E+23	2,665424E+23
-611	7,543027E+22	7,543029E+22	5,784262E+22	5,784401E+22	1,508606E+23	1,156866E+23	2,665472E+23
-610	7,542868E+22	7,542834E+22	5,784312E+22	5,784271E+22	1,508570E+23	1,156858E+23	2,665428E+23
-609	7,542661E+22	7,542980E+22	5,784412E+22	5,784337E+22	1,508564E+23	1,156875E+23	2,665439E+23
-608	7,543026E+22	7,542912E+22	5,784283E+22	5,784305E+22	1,508594E+23	1,156859E+23	2,665453E+23
-607	7,542756E+22	7,542773E+22	5,784312E+22	5,784148E+22	1,508553E+23	1,156846E+23	2,665399E+23
-606	7,542849E+22	7,542914E+22	5,784237E+22	5,784280E+22	1,508576E+23	1,156852E+23	2,665428E+23
-605	7,543042E+22	7,542807E+22	5,784116E+22	5,784151E+22	1,508585E+23	1,156827E+23	2,665411E+23
-604	7,542657E+22	7,542895E+22	5,784145E+22	5,784075E+22	1,508555E+23	1,156822E+23	2,665377E+23
-603	7,542944E+22	7,543023E+22	5,784020E+22	5,784163E+22	1,508597E+23	1,156818E+23	2,665415E+23
-602	7,542964E+22	7,542799E+22	5,784047E+22	5,783972E+22	1,508576E+23	1,156802E+23	2,665378E+23
-601	7,542687E+22	7,542889E+22	5,784183E+22	5,784018E+22	1,508558E+23	1,156820E+23	2,665378E+23
-600	7,543041E+22	7,542948E+22	5,784075E+22	5,784123E+22	1,508599E+23	1,156820E+23	2,665419E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,542769E+22	7,542804E+22	5,784146E+22	5,784068E+22	1,508557E+23	1,156821E+23	2,665379E+23
-598	7,542704E+22	7,542917E+22	5,784211E+22	5,784276E+22	1,508562E+23	1,156849E+23	2,665411E+23
-597	7,543023E+22	7,542821E+22	5,784188E+22	5,784263E+22	1,508584E+23	1,156845E+23	2,665429E+23
-596	7,542689E+22	7,542781E+22	5,784342E+22	5,784220E+22	1,508547E+23	1,156856E+23	2,665403E+23
-595	7,542933E+22	7,542936E+22	5,784324E+22	5,784407E+22	1,508587E+23	1,156873E+23	2,665460E+23
-594	7,543038E+22	7,542801E+22	5,784355E+22	5,784344E+22	1,508584E+23	1,156870E+23	2,665454E+23
-593	7,542626E+22	7,542898E+22	5,784520E+22	5,784412E+22	1,508552E+23	1,156893E+23	2,665446E+23
-592	7,542949E+22	7,543019E+22	5,784427E+22	5,784533E+22	1,508597E+23	1,156896E+23	2,665493E+23
-591	7,542791E+22	7,542811E+22	5,784488E+22	5,784379E+22	1,508560E+23	1,156887E+23	2,665447E+23
-590	7,542657E+22	7,542853E+22	5,784531E+22	5,784463E+22	1,508551E+23	1,156899E+23	2,665450E+23
-589	7,543063E+22	7,542812E+22	5,784391E+22	5,784424E+22	1,508587E+23	1,156882E+23	2,665469E+23
-588	7,542716E+22	7,542744E+22	5,784408E+22	5,784293E+22	1,508546E+23	1,156870E+23	2,665416E+23
-587	7,542810E+22	7,542936E+22	5,784277E+22	5,784396E+22	1,508575E+23	1,156867E+23	2,665442E+23
-586	7,543018E+22	7,542842E+22	5,784172E+22	5,784251E+22	1,508586E+23	1,156842E+23	2,665428E+23
-585	7,542615E+22	7,542833E+22	5,784284E+22	5,784155E+22	1,508545E+23	1,156844E+23	2,665389E+23
-584	7,542951E+22	7,542964E+22	5,784182E+22	5,784212E+22	1,508592E+23	1,156839E+23	2,665431E+23
-583	7,542919E+22	7,542784E+22	5,784215E+22	5,784064E+22	1,508570E+23	1,156828E+23	2,665398E+23
-582	7,542634E+22	7,542832E+22	5,784290E+22	5,784195E+22	1,508547E+23	1,156848E+23	2,665395E+23
-581	7,542986E+22	7,542910E+22	5,784192E+22	5,784301E+22	1,508590E+23	1,156849E+23	2,665439E+23
-580	7,542690E+22	7,542773E+22	5,784296E+22	5,784240E+22	1,508546E+23	1,156854E+23	2,665400E+23
-579	7,542693E+22	7,542876E+22	5,784331E+22	5,784393E+22	1,508557E+23	1,156872E+23	2,665429E+23
-578	7,543059E+22	7,542811E+22	5,784315E+22	5,784387E+22	1,508587E+23	1,156870E+23	2,665457E+23
-577	7,542679E+22	7,542727E+22	5,784513E+22	5,784368E+22	1,508541E+23	1,156888E+23	2,665429E+23
-576	7,542893E+22	7,542947E+22	5,784479E+22	5,784550E+22	1,508584E+23	1,156903E+23	2,665487E+23
-575	7,542935E+22	7,542856E+22	5,784512E+22	5,784498E+22	1,508579E+23	1,156901E+23	2,665480E+23
-574	7,542561E+22	7,542825E+22	5,784643E+22	5,784574E+22	1,508539E+23	1,156922E+23	2,665460E+23
-573	7,542933E+22	7,542919E+22	5,784578E+22	5,784643E+22	1,508585E+23	1,156922E+23	2,665507E+23
-572	7,542781E+22	7,542725E+22	5,784641E+22	5,784491E+22	1,508551E+23	1,156913E+23	2,665464E+23
-571	7,542665E+22	7,542796E+22	5,784607E+22	5,784560E+22	1,508546E+23	1,156917E+23	2,665463E+23
-570	7,543057E+22	7,542851E+22	5,784438E+22	5,784557E+22	1,508591E+23	1,156899E+23	2,665490E+23
-569	7,542659E+22	7,542732E+22	5,784495E+22	5,784416E+22	1,508539E+23	1,156891E+23	2,665430E+23
-568	7,542767E+22	7,542939E+22	5,784392E+22	5,784461E+22	1,508571E+23	1,156885E+23	2,665456E+23
-567	7,542973E+22	7,542862E+22	5,784327E+22	5,784303E+22	1,508583E+23	1,156863E+23	2,665447E+23
-566	7,542612E+22	7,542732E+22	5,784417E+22	5,784260E+22	1,508534E+23	1,156868E+23	2,665402E+23
-565	7,542933E+22	7,542889E+22	5,784333E+22	5,784339E+22	1,508582E+23	1,156867E+23	2,665449E+23
-564	7,542828E+22	7,542763E+22	5,784352E+22	5,784253E+22	1,508559E+23	1,156860E+23	2,665420E+23
-563	7,542556E+22	7,542808E+22	5,784365E+22	5,784368E+22	1,508536E+23	1,156873E+23	2,665410E+23
-562	7,542962E+22	7,542898E+22	5,784277E+22	5,784460E+22	1,508586E+23	1,156874E+23	2,665460E+23
-561	7,542684E+22	7,542680E+22	5,784445E+22	5,784365E+22	1,508536E+23	1,156881E+23	2,665417E+23
-560	7,542733E+22	7,542833E+22	5,784485E+22	5,784475E+22	1,508557E+23	1,156896E+23	2,665453E+23
-559	7,543046E+22	7,542845E+22	5,784483E+22	5,784492E+22	1,508589E+23	1,156898E+23	2,665487E+23
-558	7,542637E+22	7,542712E+22	5,784645E+22	5,784544E+22	1,508535E+23	1,156919E+23	2,665454E+23
-557	7,542826E+22	7,542937E+22	5,784643E+22	5,784704E+22	1,508576E+23	1,156935E+23	2,665511E+23
-556	7,542836E+22	7,542830E+22	5,784700E+22	5,784657E+22	1,508567E+23	1,156936E+23	2,665502E+23
-555	7,542535E+22	7,542753E+22	5,784775E+22	5,784693E+22	1,508529E+23	1,156947E+23	2,665476E+23
-554	7,542958E+22	7,542855E+22	5,784680E+22	5,784766E+22	1,508581E+23	1,156945E+23	2,665526E+23
-553	7,542766E+22	7,542637E+22	5,784756E+22	5,784635E+22	1,508540E+23	1,156939E+23	2,665479E+23
-552	7,542643E+22	7,542802E+22	5,784676E+22	5,784676E+22	1,508545E+23	1,156935E+23	2,665480E+23
-551	7,542986E+22	7,542902E+22	5,784526E+22	5,784653E+22	1,508589E+23	1,156918E+23	2,665507E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,542632E+22	7,542678E+22	5,784582E+22	5,784515E+22	1,508531E+23	1,156910E+23	2,665441E+23
-549	7,542768E+22	7,542868E+22	5,784534E+22	5,784507E+22	1,508564E+23	1,156904E+23	2,665468E+23
-548	7,542939E+22	7,542819E+22	5,784489E+22	5,784393E+22	1,508576E+23	1,156888E+23	2,665464E+23
-547	7,542579E+22	7,542697E+22	5,784513E+22	5,784384E+22	1,508528E+23	1,156890E+23	2,665417E+23
-546	7,542873E+22	7,542911E+22	5,784409E+22	5,784514E+22	1,508578E+23	1,156892E+23	2,665471E+23
-545	7,542744E+22	7,542718E+22	5,784481E+22	5,784438E+22	1,508546E+23	1,156892E+23	2,665438E+23
-544	7,542528E+22	7,542777E+22	5,784495E+22	5,784486E+22	1,508531E+23	1,156898E+23	2,665429E+23
-543	7,542961E+22	7,542885E+22	5,784445E+22	5,784554E+22	1,508585E+23	1,156900E+23	2,665484E+23
-542	7,542731E+22	7,542586E+22	5,784587E+22	5,784496E+22	1,508532E+23	1,156908E+23	2,665440E+23
-541	7,542741E+22	7,542794E+22	5,784652E+22	5,784604E+22	1,508554E+23	1,156926E+23	2,665479E+23
-540	7,542963E+22	7,542878E+22	5,784645E+22	5,784677E+22	1,508584E+23	1,156932E+23	2,665516E+23
-539	7,542556E+22	7,542698E+22	5,784759E+22	5,784710E+22	1,508525E+23	1,156947E+23	2,665472E+23
-538	7,542772E+22	7,542916E+22	5,784769E+22	5,784854E+22	1,508569E+23	1,156962E+23	2,665531E+23
-537	7,542808E+22	7,542711E+22	5,784865E+22	5,784787E+22	1,508552E+23	1,156965E+23	2,665517E+23
-536	7,542544E+22	7,542677E+22	5,784898E+22	5,784785E+22	1,508522E+23	1,156968E+23	2,665490E+23
-535	7,542938E+22	7,542868E+22	5,784791E+22	5,784874E+22	1,508581E+23	1,156967E+23	2,665547E+23
-534	7,542743E+22	7,542607E+22	5,784816E+22	5,784781E+22	1,508535E+23	1,156960E+23	2,665495E+23
-533	7,542610E+22	7,542796E+22	5,784780E+22	5,784768E+22	1,508541E+23	1,156955E+23	2,665495E+23
-532	7,542923E+22	7,542910E+22	5,784668E+22	5,784740E+22	1,508583E+23	1,156941E+23	2,665524E+23
-531	7,542615E+22	7,542632E+22	5,784696E+22	5,784585E+22	1,508525E+23	1,156928E+23	2,665453E+23
-530	7,542760E+22	7,542838E+22	5,784648E+22	5,784612E+22	1,508560E+23	1,156926E+23	2,665486E+23
-529	7,542875E+22	7,542747E+22	5,784629E+22	5,784557E+22	1,508562E+23	1,156919E+23	2,665481E+23
-528	7,542512E+22	7,542688E+22	5,784604E+22	5,784540E+22	1,508520E+23	1,156914E+23	2,665434E+23
-527	7,542806E+22	7,542912E+22	5,784522E+22	5,784652E+22	1,508572E+23	1,156917E+23	2,665489E+23
-526	7,542748E+22	7,542616E+22	5,784584E+22	5,784576E+22	1,508536E+23	1,156916E+23	2,665452E+23
-525	7,542583E+22	7,542691E+22	5,784644E+22	5,784561E+22	1,508527E+23	1,156920E+23	2,665448E+23
-524	7,542962E+22	7,542862E+22	5,784613E+22	5,784663E+22	1,508582E+23	1,156928E+23	2,665510E+23
-523	7,542717E+22	7,542596E+22	5,784704E+22	5,784635E+22	1,508531E+23	1,156934E+23	2,665465E+23
-522	7,542678E+22	7,542846E+22	5,784765E+22	5,784772E+22	1,508552E+23	1,156954E+23	2,665506E+23
-521	7,542847E+22	7,542848E+22	5,784826E+22	5,784862E+22	1,508569E+23	1,156969E+23	2,665538E+23
-520	7,542494E+22	7,542667E+22	5,784922E+22	5,784843E+22	1,508516E+23	1,156976E+23	2,665493E+23
-519	7,542739E+22	7,542866E+22	5,784945E+22	5,784968E+22	1,508560E+23	1,156991E+23	2,665552E+23
-518	7,542828E+22	7,542586E+22	5,784988E+22	5,784946E+22	1,508541E+23	1,156993E+23	2,665535E+23
-517	7,542557E+22	7,542619E+22	5,785006E+22	5,784915E+22	1,508518E+23	1,156992E+23	2,665510E+23
-516	7,542874E+22	7,542892E+22	5,784888E+22	5,785022E+22	1,508577E+23	1,156991E+23	2,665568E+23
-515	7,542706E+22	7,542608E+22	5,784873E+22	5,784885E+22	1,508531E+23	1,156976E+23	2,665507E+23
-514	7,542596E+22	7,542793E+22	5,784870E+22	5,784835E+22	1,508539E+23	1,156971E+23	2,665509E+23
-513	7,542896E+22	7,542835E+22	5,784827E+22	5,784817E+22	1,508573E+23	1,156964E+23	2,665537E+23
-512	7,542597E+22	7,542600E+22	5,784824E+22	5,784663E+22	1,508520E+23	1,156949E+23	2,665468E+23
-511	7,542691E+22	7,542854E+22	5,784779E+22	5,784737E+22	1,508555E+23	1,156952E+23	2,665506E+23
-510	7,542817E+22	7,542688E+22	5,784718E+22	5,784742E+22	1,508550E+23	1,156946E+23	2,665496E+23
-509	7,542480E+22	7,542632E+22	5,784724E+22	5,784670E+22	1,508511E+23	1,156939E+23	2,665451E+23
-508	7,542782E+22	7,542882E+22	5,784668E+22	5,784774E+22	1,508566E+23	1,156944E+23	2,665511E+23
-507	7,542785E+22	7,542551E+22	5,784686E+22	5,784671E+22	1,508534E+23	1,156936E+23	2,665469E+23
-506	7,542608E+22	7,542683E+22	5,784761E+22	5,784676E+22	1,508529E+23	1,156944E+23	2,665473E+23
-505	7,542901E+22	7,542848E+22	5,784772E+22	5,784833E+22	1,508575E+23	1,156961E+23	2,665535E+23
-504	7,542617E+22	7,542630E+22	5,784836E+22	5,784799E+22	1,508525E+23	1,156964E+23	2,665488E+23
-503	7,542572E+22	7,542860E+22	5,784937E+22	5,784926E+22	1,508543E+23	1,156986E+23	2,665530E+23
-502	7,542812E+22	7,542723E+22	5,784978E+22	5,784937E+22	1,508553E+23	1,156991E+23	2,665545E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,542523E+22	7,542544E+22	5,785086E+22	5,784949E+22	1,508507E+23	1,157004E+23	2,665510E+23
-500	7,542737E+22	7,542812E+22	5,785089E+22	5,785101E+22	1,508555E+23	1,157019E+23	2,665574E+23
-499	7,542824E+22	7,542571E+22	5,785050E+22	5,785084E+22	1,508540E+23	1,157013E+23	2,665553E+23
-498	7,542531E+22	7,542670E+22	5,785068E+22	5,785044E+22	1,508520E+23	1,157011E+23	2,665531E+23
-497	7,542803E+22	7,542880E+22	5,785028E+22	5,785140E+22	1,508568E+23	1,157017E+23	2,665585E+23
-496	7,542664E+22	7,542616E+22	5,785010E+22	5,784947E+22	1,508528E+23	1,156996E+23	2,665524E+23
-495	7,542566E+22	7,542775E+22	5,785040E+22	5,784901E+22	1,508534E+23	1,156994E+23	2,665528E+23
-494	7,542870E+22	7,542730E+22	5,784958E+22	5,784959E+22	1,508560E+23	1,156992E+23	2,665552E+23
-493	7,542566E+22	7,542542E+22	5,784939E+22	5,784809E+22	1,508511E+23	1,156975E+23	2,665486E+23
-492	7,542600E+22	7,542835E+22	5,784880E+22	5,784909E+22	1,508543E+23	1,156979E+23	2,665522E+23
-491	7,542787E+22	7,542636E+22	5,784775E+22	5,784877E+22	1,508542E+23	1,156965E+23	2,665507E+23
-490	7,542511E+22	7,542594E+22	5,784797E+22	5,784753E+22	1,508510E+23	1,156955E+23	2,665465E+23
-489	7,542784E+22	7,542808E+22	5,784815E+22	5,784867E+22	1,508559E+23	1,156968E+23	2,665527E+23
-488	7,542776E+22	7,542576E+22	5,784812E+22	5,784761E+22	1,508535E+23	1,156957E+23	2,665493E+23
-487	7,542539E+22	7,542742E+22	5,784920E+22	5,784809E+22	1,508528E+23	1,156973E+23	2,665501E+23
-486	7,542807E+22	7,542818E+22	5,784925E+22	5,785028E+22	1,508562E+23	1,156995E+23	2,665558E+23
-485	7,542559E+22	7,542575E+22	5,785025E+22	5,784951E+22	1,508513E+23	1,156998E+23	2,665511E+23
-484	7,542513E+22	7,542794E+22	5,785134E+22	5,785080E+22	1,508531E+23	1,157021E+23	2,665552E+23
-483	7,542830E+22	7,542616E+22	5,785103E+22	5,785167E+22	1,508545E+23	1,157027E+23	2,665572E+23
-482	7,542557E+22	7,542500E+22	5,785181E+22	5,785093E+22	1,508506E+23	1,157027E+23	2,665533E+23
-481	7,542697E+22	7,542788E+22	5,785206E+22	5,785275E+22	1,508549E+23	1,157048E+23	2,665597E+23
-480	7,542765E+22	7,542626E+22	5,785132E+22	5,785205E+22	1,508539E+23	1,157034E+23	2,665573E+23
-479	7,542477E+22	7,542705E+22	5,785209E+22	5,785130E+22	1,508518E+23	1,157034E+23	2,665552E+23
-478	7,542780E+22	7,542793E+22	5,785173E+22	5,785233E+22	1,508557E+23	1,157041E+23	2,665598E+23
-477	7,542669E+22	7,542531E+22	5,785174E+22	5,785014E+22	1,508520E+23	1,157019E+23	2,665539E+23
-476	7,542514E+22	7,542743E+22	5,785184E+22	5,785029E+22	1,508526E+23	1,157021E+23	2,665547E+23
-475	7,542816E+22	7,542692E+22	5,785009E+22	5,785112E+22	1,508551E+23	1,157012E+23	2,665563E+23
-474	7,542519E+22	7,542541E+22	5,784987E+22	5,784954E+22	1,508506E+23	1,156994E+23	2,665500E+23
-473	7,542549E+22	7,542781E+22	5,784995E+22	5,785042E+22	1,508533E+23	1,157004E+23	2,665537E+23
-472	7,542775E+22	7,542621E+22	5,784881E+22	5,784945E+22	1,508540E+23	1,156983E+23	2,665522E+23
-471	7,542525E+22	7,542588E+22	5,784954E+22	5,784825E+22	1,508511E+23	1,156978E+23	2,665489E+23
-470	7,542770E+22	7,542742E+22	5,784958E+22	5,785007E+22	1,508551E+23	1,156997E+23	2,665548E+23
-469	7,542729E+22	7,542566E+22	5,784966E+22	5,784911E+22	1,508529E+23	1,156988E+23	2,665517E+23
-468	7,542429E+22	7,542745E+22	5,785086E+22	5,784993E+22	1,508517E+23	1,157008E+23	2,665525E+23
-467	7,542745E+22	7,542744E+22	5,785049E+22	5,785188E+22	1,508549E+23	1,157024E+23	2,665573E+23
-466	7,542571E+22	7,542501E+22	5,785157E+22	5,785081E+22	1,508507E+23	1,157024E+23	2,665531E+23
-465	7,542515E+22	7,542686E+22	5,785302E+22	5,785228E+22	1,508520E+23	1,157053E+23	2,665573E+23
-464	7,542820E+22	7,542622E+22	5,785215E+22	5,785296E+22	1,508544E+23	1,157051E+23	2,665595E+23
-463	7,542525E+22	7,542561E+22	5,785304E+22	5,785230E+22	1,508509E+23	1,157053E+23	2,665562E+23
-462	7,542635E+22	7,542771E+22	5,785330E+22	5,785433E+22	1,508541E+23	1,157076E+23	2,665617E+23
-461	7,542737E+22	7,542613E+22	5,785297E+22	5,785300E+22	1,508535E+23	1,157060E+23	2,665595E+23
-460	7,542428E+22	7,542670E+22	5,785389E+22	5,785225E+22	1,508510E+23	1,157061E+23	2,665571E+23
-459	7,542761E+22	7,542707E+22	5,785290E+22	5,785340E+22	1,508547E+23	1,157063E+23	2,665610E+23
-458	7,542658E+22	7,542487E+22	5,785255E+22	5,785146E+22	1,508514E+23	1,157040E+23	2,665555E+23
-457	7,542424E+22	7,542687E+22	5,785278E+22	5,785207E+22	1,508511E+23	1,157049E+23	2,665560E+23
-456	7,542738E+22	7,542702E+22	5,785064E+22	5,785236E+22	1,508544E+23	1,157030E+23	2,665574E+23
-455	7,542506E+22	7,542527E+22	5,785088E+22	5,785032E+22	1,508503E+23	1,157012E+23	2,665515E+23
-454	7,542570E+22	7,542679E+22	5,785110E+22	5,785123E+22	1,508525E+23	1,157023E+23	2,665548E+23
-453	7,542820E+22	7,542570E+22	5,785026E+22	5,785000E+22	1,508539E+23	1,157003E+23	2,665542E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,542483E+22	7,542602E+22	5,785114E+22	5,784945E+22	1,508509E+23	1,157006E+23	2,665514E+23
-451	7,542694E+22	7,542743E+22	5,785067E+22	5,785166E+22	1,508544E+23	1,157023E+23	2,665567E+23
-450	7,542661E+22	7,542572E+22	5,785095E+22	5,785078E+22	1,508523E+23	1,157017E+23	2,665541E+23
-449	7,542348E+22	7,542673E+22	5,785275E+22	5,785175E+22	1,508502E+23	1,157045E+23	2,665547E+23
-448	7,542712E+22	7,542699E+22	5,785200E+22	5,785317E+22	1,508541E+23	1,157052E+23	2,665593E+23
-447	7,542590E+22	7,542460E+22	5,785321E+22	5,785218E+22	1,508505E+23	1,157054E+23	2,665559E+23
-446	7,542513E+22	7,542610E+22	5,785427E+22	5,785415E+22	1,508512E+23	1,157084E+23	2,665596E+23
-445	7,542793E+22	7,542621E+22	5,785339E+22	5,785448E+22	1,508541E+23	1,157079E+23	2,665620E+23
-444	7,542456E+22	7,542588E+22	5,785449E+22	5,785375E+22	1,508504E+23	1,157082E+23	2,665587E+23
-443	7,542604E+22	7,542715E+22	5,785438E+22	5,785528E+22	1,508532E+23	1,157097E+23	2,665629E+23
-442	7,542742E+22	7,542560E+22	5,785420E+22	5,785372E+22	1,508530E+23	1,157079E+23	2,665609E+23
-441	7,542395E+22	7,542588E+22	5,785541E+22	5,785345E+22	1,508498E+23	1,157089E+23	2,665587E+23
-440	7,542689E+22	7,542707E+22	5,785375E+22	5,785452E+22	1,508540E+23	1,157083E+23	2,665622E+23
-439	7,542599E+22	7,542510E+22	5,785350E+22	5,785282E+22	1,508511E+23	1,157063E+23	2,665574E+23
-438	7,542372E+22	7,542616E+22	5,785367E+22	5,785353E+22	1,508499E+23	1,157072E+23	2,665571E+23
-437	7,542740E+22	7,542649E+22	5,785190E+22	5,785310E+22	1,508539E+23	1,157050E+23	2,665589E+23
-436	7,542512E+22	7,542495E+22	5,785237E+22	5,785103E+22	1,508501E+23	1,157034E+23	2,665535E+23
-435	7,542588E+22	7,542617E+22	5,785212E+22	5,785209E+22	1,508520E+23	1,157042E+23	2,665563E+23
-434	7,542810E+22	7,542582E+22	5,785130E+22	5,785129E+22	1,508539E+23	1,157026E+23	2,665565E+23
-433	7,542379E+22	7,542594E+22	5,785259E+22	5,785143E+22	1,508497E+23	1,157040E+23	2,665537E+23
-432	7,542574E+22	7,542761E+22	5,785194E+22	5,785320E+22	1,508534E+23	1,157051E+23	2,665585E+23
-431	7,542626E+22	7,542537E+22	5,785263E+22	5,785218E+22	1,508516E+23	1,157048E+23	2,665564E+23
-430	7,542348E+22	7,542533E+22	5,785434E+22	5,785329E+22	1,508488E+23	1,157076E+23	2,665564E+23
-429	7,542752E+22	7,542626E+22	5,785358E+22	5,785441E+22	1,508538E+23	1,157080E+23	2,665618E+23
-428	7,542573E+22	7,542462E+22	5,785459E+22	5,785369E+22	1,508503E+23	1,157083E+23	2,665586E+23
-427	7,542474E+22	7,542611E+22	5,785511E+22	5,785568E+22	1,508508E+23	1,157108E+23	2,665616E+23
-426	7,542766E+22	7,542646E+22	5,785453E+22	5,785569E+22	1,508541E+23	1,157102E+23	2,665643E+23
-425	7,542390E+22	7,542544E+22	5,785631E+22	5,785504E+22	1,508493E+23	1,157113E+23	2,665607E+23
-424	7,542548E+22	7,542696E+22	5,785590E+22	5,785606E+22	1,508524E+23	1,157120E+23	2,665644E+23
-423	7,542731E+22	7,542523E+22	5,785573E+22	5,785487E+22	1,508525E+23	1,157106E+23	2,665631E+23
-422	7,542342E+22	7,542496E+22	5,785647E+22	5,785521E+22	1,508484E+23	1,157117E+23	2,665601E+23
-421	7,542640E+22	7,542674E+22	5,785463E+22	5,785592E+22	1,508531E+23	1,157105E+23	2,665637E+23
-420	7,542547E+22	7,542491E+22	5,785450E+22	5,785401E+22	1,508504E+23	1,157085E+23	2,665589E+23
-419	7,542387E+22	7,542539E+22	5,785431E+22	5,785427E+22	1,508493E+23	1,157086E+23	2,665578E+23
-418	7,542793E+22	7,542607E+22	5,785284E+22	5,785357E+22	1,508540E+23	1,157064E+23	2,665604E+23
-417	7,542499E+22	7,542467E+22	5,785378E+22	5,785214E+22	1,508497E+23	1,157059E+23	2,665556E+23
-416	7,542503E+22	7,542674E+22	5,785317E+22	5,785317E+22	1,508518E+23	1,157063E+23	2,665581E+23
-415	7,542726E+22	7,542635E+22	5,785270E+22	5,785287E+22	1,508536E+23	1,157056E+23	2,665592E+23
-414	7,542296E+22	7,542523E+22	5,785415E+22	5,785333E+22	1,508482E+23	1,157075E+23	2,665557E+23
-413	7,542545E+22	7,542676E+22	5,785371E+22	5,785450E+22	1,508522E+23	1,157082E+23	2,665604E+23
-412	7,542624E+22	7,542463E+22	5,785444E+22	5,785358E+22	1,508509E+23	1,157080E+23	2,665589E+23
-411	7,542385E+22	7,542431E+22	5,785532E+22	5,785475E+22	1,508482E+23	1,157101E+23	2,665582E+23
-410	7,542758E+22	7,542613E+22	5,785449E+22	5,785594E+22	1,508537E+23	1,157104E+23	2,665641E+23
-409	7,542505E+22	7,542474E+22	5,785587E+22	5,785552E+22	1,508498E+23	1,157114E+23	2,665612E+23
-408	7,542392E+22	7,542644E+22	5,785631E+22	5,785668E+22	1,508504E+23	1,157130E+23	2,665633E+23
-407	7,542749E+22	7,542638E+22	5,785625E+22	5,785661E+22	1,508539E+23	1,157129E+23	2,665667E+23
-406	7,542373E+22	7,542433E+22	5,785801E+22	5,785627E+22	1,508481E+23	1,157143E+23	2,665623E+23
-405	7,542524E+22	7,542635E+22	5,785745E+22	5,785716E+22	1,508516E+23	1,157146E+23	2,665662E+23
-404	7,542663E+22	7,542520E+22	5,785700E+22	5,785641E+22	1,508518E+23	1,157134E+23	2,665652E+23

1	14	15	16	17	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							
-403	7,542294E+22	7,542450E+22	5,785697E+22	5,785672E+22	1,508474E+23	1,157137E+23	2,665611E+23
-402	7,542633E+22	7,542651E+22	5,785539E+22	5,785697E+22	1,508528E+23	1,157124E+23	2,665652E+23
-401	7,542531E+22	7,542447E+22	5,785574E+22	5,785504E+22	1,508498E+23	1,157108E+23	2,665606E+23
-400	7,542375E+22	7,542539E+22	5,785536E+22	5,785474E+22	1,508491E+23	1,157101E+23	2,665592E+23
-399	7,542801E+22	7,542623E+22	5,785414E+22	5,785454E+22	1,508542E+23	1,157087E+23	2,665629E+23
-398	7,542425E+22	7,542428E+22	5,785503E+22	5,785389E+22	1,508485E+23	1,157089E+23	2,665574E+23
-397	7,542415E+22	7,542668E+22	5,785455E+22	5,785468E+22	1,508508E+23	1,157092E+23	2,665601E+23
-396	7,542650E+22	7,542592E+22	5,785428E+22	5,785430E+22	1,508524E+23	1,157086E+23	2,665610E+23
-395	7,542297E+22	7,542392E+22	5,785525E+22	5,785455E+22	1,508469E+23	1,157098E+23	2,665567E+23
-394	7,542602E+22	7,542585E+22	5,785490E+22	5,785552E+22	1,508519E+23	1,157104E+23	2,665623E+23
-393	7,542619E+22	7,542416E+22	5,785578E+22	5,785516E+22	1,508503E+23	1,157109E+23	2,665613E+23
-392	7,542329E+22	7,542490E+22	5,785625E+22	5,785603E+22	1,508482E+23	1,157123E+23	2,665605E+23
-391	7,542716E+22	7,542676E+22	5,785586E+22	5,785740E+22	1,508539E+23	1,157133E+23	2,665672E+23
-390	7,542436E+22	7,542437E+22	5,785763E+22	5,785710E+22	1,508487E+23	1,157147E+23	2,665635E+23
-389	7,542356E+22	7,542604E+22	5,785831E+22	5,785766E+22	1,508496E+23	1,157160E+23	2,665656E+23
-388	7,542714E+22	7,542584E+22	5,785827E+22	5,785784E+22	1,508530E+23	1,157161E+23	2,665691E+23
-387	7,542359E+22	7,542334E+22	5,785908E+22	5,785789E+22	1,508469E+23	1,157170E+23	2,665639E+23
-386	7,542492E+22	7,542597E+22	5,785825E+22	5,785880E+22	1,508509E+23	1,157170E+23	2,665679E+23
-385	7,542585E+22	7,542496E+22	5,785790E+22	5,785824E+22	1,508508E+23	1,157161E+23	2,665670E+23
-384	7,542252E+22	7,542449E+22	5,785758E+22	5,785749E+22	1,508470E+23	1,157151E+23	2,665621E+23
-383	7,542667E+22	7,542632E+22	5,785647E+22	5,785755E+22	1,508530E+23	1,157140E+23	2,665670E+23
-382	7,542549E+22	7,542378E+22	5,785700E+22	5,785588E+22	1,508493E+23	1,157129E+23	2,665621E+23
-381	7,542360E+22	7,542529E+22	5,785667E+22	5,785543E+22	1,508489E+23	1,157121E+23	2,665610E+23
-380	7,542710E+22	7,542657E+22	5,785559E+22	5,785581E+22	1,508537E+23	1,157114E+23	2,665651E+23
-379	7,542355E+22	7,542380E+22	5,785597E+22	5,785544E+22	1,508473E+23	1,157114E+23	2,665588E+23
-378	7,542370E+22	7,542600E+22	5,785586E+22	5,785596E+22	1,508497E+23	1,157118E+23	2,665615E+23
-377	7,542611E+22	7,542510E+22	5,785589E+22	5,785585E+22	1,508512E+23	1,157117E+23	2,665630E+23
-376	7,542296E+22	7,542344E+22	5,785634E+22	5,785557E+22	1,508464E+23	1,157119E+23	2,665583E+23
-375	7,542628E+22	7,542578E+22	5,785609E+22	5,785701E+22	1,508521E+23	1,157131E+23	2,665652E+23
-374	7,542568E+22	7,542403E+22	5,785694E+22	5,785709E+22	1,508497E+23	1,157140E+23	2,665638E+23
-373	7,542265E+22	7,542513E+22	5,785773E+22	5,785740E+22	1,508478E+23	1,157151E+23	2,665629E+23
-372	7,542651E+22	7,542675E+22	5,785784E+22	5,785861E+22	1,508533E+23	1,157165E+23	2,665697E+23
-371	7,542429E+22	7,542338E+22	5,785918E+22	5,785831E+22	1,508477E+23	1,157175E+23	2,665652E+23
-370	7,542363E+22	7,542526E+22	5,785991E+22	5,785885E+22	1,508489E+23	1,157188E+23	2,665676E+23
-369	7,542654E+22	7,542542E+22	5,785968E+22	5,785969E+22	1,508520E+23	1,157194E+23	2,665713E+23
-368	7,542280E+22	7,542354E+22	5,785978E+22	5,785933E+22	1,508463E+23	1,157191E+23	2,665655E+23
-367	7,542471E+22	7,542608E+22	5,785917E+22	5,786023E+22	1,508508E+23	1,157194E+23	2,665702E+23
-366	7,542552E+22	7,542434E+22	5,785907E+22	5,785947E+22	1,508499E+23	1,157185E+23	2,665684E+23
-365	7,542267E+22	7,542419E+22	5,785896E+22	5,785795E+22	1,508469E+23	1,157169E+23	2,665638E+23
-364	7,542670E+22	7,542603E+22	5,785802E+22	5,785813E+22	1,508527E+23	1,157162E+23	2,665689E+23
-363	7,542526E+22	7,542322E+22	5,785788E+22	5,785705E+22	1,508485E+23	1,157149E+23	2,665634E+23
-362	7,542296E+22	7,542522E+22	5,785763E+22	5,785680E+22	1,508482E+23	1,157144E+23	2,665626E+23
-361	7,542588E+22	7,542630E+22	5,785681E+22	5,785756E+22	1,508522E+23	1,157144E+23	2,665666E+23
-360	7,542289E+22	7,542340E+22	5,785696E+22	5,785648E+22	1,508463E+23	1,157134E+23	2,665597E+23
-359	7,542403E+22	7,542529E+22	5,785713E+22	5,785705E+22	1,508493E+23	1,157142E+23	2,665635E+23
-358	7,542617E+22	7,542416E+22	5,785721E+22	5,785729E+22	1,508503E+23	1,157145E+23	2,665648E+23
-357	7,542290E+22	7,542352E+22	5,785757E+22	5,785675E+22	1,508464E+23	1,157143E+23	2,665607E+23
-356	7,542567E+22	7,542628E+22	5,785760E+22	5,785846E+22	1,508519E+23	1,157161E+23	2,665680E+23
-355	7,542519E+22	7,542389E+22	5,785823E+22	5,785868E+22	1,508491E+23	1,157169E+23	2,665660E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,542235E+22	7,542478E+22	5,785957E+22	5,785863E+22	1,508471E+23	1,157182E+23	2,665653E+23
-353	7,542590E+22	7,542617E+22	5,785993E+22	5,786020E+22	1,508521E+23	1,157201E+23	2,665722E+23
-352	7,542398E+22	7,542288E+22	5,786065E+22	5,785962E+22	1,508469E+23	1,157203E+23	2,665671E+23
-351	7,542348E+22	7,542491E+22	5,786114E+22	5,786068E+22	1,508484E+23	1,157218E+23	2,665702E+23
-350	7,542581E+22	7,542497E+22	5,786069E+22	5,786177E+22	1,508508E+23	1,157225E+23	2,665732E+23
-349	7,542248E+22	7,542333E+22	5,786071E+22	5,786043E+22	1,508458E+23	1,157211E+23	2,665670E+23
-348	7,542460E+22	7,542576E+22	5,786053E+22	5,786088E+22	1,508504E+23	1,157214E+23	2,665718E+23
-347	7,542593E+22	7,542351E+22	5,785998E+22	5,786003E+22	1,508494E+23	1,157200E+23	2,665694E+23
-346	7,542289E+22	7,542373E+22	5,786016E+22	5,785849E+22	1,508466E+23	1,157186E+23	2,665653E+23
-345	7,542580E+22	7,542618E+22	5,785930E+22	5,785947E+22	1,508520E+23	1,157188E+23	2,665708E+23
-344	7,542416E+22	7,542357E+22	5,785871E+22	5,785825E+22	1,508477E+23	1,157170E+23	2,665647E+23
-343	7,542234E+22	7,542513E+22	5,785878E+22	5,785831E+22	1,508475E+23	1,157171E+23	2,665646E+23
-342	7,542521E+22	7,542544E+22	5,785822E+22	5,785912E+22	1,508506E+23	1,157173E+23	2,665680E+23
-341	7,542296E+22	7,542273E+22	5,785836E+22	5,785742E+22	1,508457E+23	1,157158E+23	2,665615E+23
-340	7,542421E+22	7,542480E+22	5,785867E+22	5,785821E+22	1,508490E+23	1,157169E+23	2,665659E+23
-339	7,542618E+22	7,542370E+22	5,785808E+22	5,785890E+22	1,508499E+23	1,157170E+23	2,665669E+23
-338	7,542260E+22	7,542360E+22	5,785877E+22	5,785825E+22	1,508462E+23	1,157170E+23	2,665632E+23
-337	7,542474E+22	7,542632E+22	5,785925E+22	5,786011E+22	1,508511E+23	1,157194E+23	2,665704E+23
-336	7,542467E+22	7,542368E+22	5,785978E+22	5,785969E+22	1,508484E+23	1,157195E+23	2,665678E+23
-335	7,542257E+22	7,542423E+22	5,786132E+22	5,785995E+22	1,508468E+23	1,157213E+23	2,665681E+23
-334	7,542544E+22	7,542527E+22	5,786160E+22	5,786194E+22	1,508507E+23	1,157235E+23	2,665743E+23
-333	7,542354E+22	7,542279E+22	5,786195E+22	5,786114E+22	1,508463E+23	1,157231E+23	2,665694E+23
-332	7,542293E+22	7,542489E+22	5,786242E+22	5,786219E+22	1,508478E+23	1,157246E+23	2,665724E+23
-331	7,542549E+22	7,542435E+22	5,786156E+22	5,786314E+22	1,508498E+23	1,157247E+23	2,665745E+23
-330	7,542264E+22	7,542290E+22	5,786198E+22	5,786116E+22	1,508455E+23	1,157231E+23	2,665687E+23
-329	7,542439E+22	7,542538E+22	5,786199E+22	5,786178E+22	1,508498E+23	1,157238E+23	2,665735E+23
-328	7,542569E+22	7,542345E+22	5,786098E+22	5,786074E+22	1,508491E+23	1,157217E+23	2,665709E+23
-327	7,542257E+22	7,542386E+22	5,786110E+22	5,785993E+22	1,508464E+23	1,157210E+23	2,665675E+23
-326	7,542446E+22	7,542593E+22	5,786037E+22	5,786128E+22	1,508504E+23	1,157217E+23	2,665721E+23
-325	7,542343E+22	7,542329E+22	5,785987E+22	5,785941E+22	1,508467E+23	1,157193E+23	2,665660E+23
-324	7,542218E+22	7,542433E+22	5,786029E+22	5,785924E+22	1,508465E+23	1,157195E+23	2,665660E+23
-323	7,542561E+22	7,542418E+22	5,785922E+22	5,786018E+22	1,508498E+23	1,157194E+23	2,665692E+23
-322	7,542346E+22	7,542215E+22	5,785948E+22	5,785838E+22	1,508456E+23	1,157179E+23	2,665635E+23
-321	7,542367E+22	7,542505E+22	5,785987E+22	5,785976E+22	1,508487E+23	1,157196E+23	2,665684E+23
-320	7,542553E+22	7,542423E+22	5,785910E+22	5,786016E+22	1,508498E+23	1,157193E+23	2,665690E+23
-319	7,542227E+22	7,542373E+22	5,786035E+22	5,785977E+22	1,508460E+23	1,157201E+23	2,665661E+23
-318	7,542394E+22	7,542578E+22	5,786130E+22	5,786170E+22	1,508497E+23	1,157230E+23	2,665727E+23
-317	7,542452E+22	7,542309E+22	5,786169E+22	5,786088E+22	1,508476E+23	1,157226E+23	2,665702E+23
-316	7,542232E+22	7,542355E+22	5,786318E+22	5,786152E+22	1,508459E+23	1,157247E+23	2,665706E+23
-315	7,542504E+22	7,542458E+22	5,786251E+22	5,786395E+22	1,508496E+23	1,157265E+23	2,665761E+23
-314	7,542321E+22	7,542242E+22	5,786291E+22	5,786275E+22	1,508456E+23	1,157257E+23	2,665713E+23
-313	7,542235E+22	7,542466E+22	5,786362E+22	5,786363E+22	1,508470E+23	1,157273E+23	2,665743E+23
-312	7,542551E+22	7,542406E+22	5,786254E+22	5,786368E+22	1,508496E+23	1,157262E+23	2,665758E+23
-311	7,542313E+22	7,542266E+22	5,786317E+22	5,786192E+22	1,508458E+23	1,157251E+23	2,665709E+23
-310	7,542380E+22	7,542514E+22	5,786332E+22	5,786293E+22	1,508489E+23	1,157263E+23	2,665752E+23
-309	7,542492E+22	7,542381E+22	5,786212E+22	5,786181E+22	1,508487E+23	1,157239E+23	2,665727E+23
-308	7,542170E+22	7,542386E+22	5,786252E+22	5,786126E+22	1,508456E+23	1,157238E+23	2,665693E+23
-307	7,542387E+22	7,542506E+22	5,786141E+22	5,786268E+22	1,508489E+23	1,157241E+23	2,665730E+23
-306	7,542357E+22	7,542235E+22	5,786121E+22	5,786039E+22	1,508459E+23	1,157216E+23	2,665675E+23

1	14	15	16	17	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							
-305	7,542221E+22	7,542359E+22	5,786160E+22	5,786046E+22	1,508458E+23	1,157221E+23	2,665679E+23
-304	7,542569E+22	7,542390E+22	5,786004E+22	5,786121E+22	1,508496E+23	1,157212E+23	2,665708E+23
-303	7,542354E+22	7,542251E+22	5,786029E+22	5,785997E+22	1,508460E+23	1,157203E+23	2,665663E+23
-302	7,542266E+22	7,542508E+22	5,786113E+22	5,786141E+22	1,508477E+23	1,157225E+23	2,665703E+23
-301	7,542492E+22	7,542431E+22	5,786070E+22	5,786121E+22	1,508492E+23	1,157219E+23	2,665711E+23
-300	7,542210E+22	7,542316E+22	5,786243E+22	5,786083E+22	1,508453E+23	1,157233E+23	2,665685E+23
-299	7,542374E+22	7,542457E+22	5,786285E+22	5,786315E+22	1,508483E+23	1,157260E+23	2,665743E+23
-298	7,542443E+22	7,542243E+22	5,786322E+22	5,786246E+22	1,508469E+23	1,157257E+23	2,665725E+23
-297	7,542155E+22	7,542342E+22	5,786441E+22	5,786353E+22	1,508450E+23	1,157279E+23	2,665729E+23
-296	7,542449E+22	7,542454E+22	5,786337E+22	5,786538E+22	1,508490E+23	1,157288E+23	2,665778E+23
-295	7,542336E+22	7,542239E+22	5,786399E+22	5,786406E+22	1,508457E+23	1,157281E+23	2,665738E+23
-294	7,542201E+22	7,542422E+22	5,786515E+22	5,786470E+22	1,508462E+23	1,157298E+23	2,665761E+23
-293	7,542556E+22	7,542393E+22	5,786406E+22	5,786431E+22	1,508495E+23	1,157284E+23	2,665779E+23
-292	7,542290E+22	7,542251E+22	5,786479E+22	5,786300E+22	1,508454E+23	1,157278E+23	2,665732E+23
-291	7,542294E+22	7,542475E+22	5,786424E+22	5,786454E+22	1,508477E+23	1,157288E+23	2,665765E+23
-290	7,542429E+22	7,542335E+22	5,786322E+22	5,786317E+22	1,508476E+23	1,157264E+23	2,665740E+23
-289	7,542103E+22	7,542320E+22	5,786374E+22	5,786260E+22	1,508442E+23	1,157263E+23	2,665706E+23
-288	7,542402E+22	7,542420E+22	5,786226E+22	5,786337E+22	1,508482E+23	1,157256E+23	2,665739E+23
-287	7,542426E+22	7,542183E+22	5,786202E+22	5,786139E+22	1,508461E+23	1,157234E+23	2,665695E+23
-286	7,542186E+22	7,542350E+22	5,786261E+22	5,786179E+22	1,508454E+23	1,157244E+23	2,665698E+23
-285	7,542521E+22	7,542449E+22	5,786102E+22	5,786226E+22	1,508497E+23	1,157233E+23	2,665730E+23
-284	7,542285E+22	7,542281E+22	5,786193E+22	5,786122E+22	1,508457E+23	1,157231E+23	2,665688E+23
-283	7,542194E+22	7,542459E+22	5,786269E+22	5,786280E+22	1,508465E+23	1,157255E+23	2,665720E+23
-282	7,542477E+22	7,542348E+22	5,786266E+22	5,786241E+22	1,508482E+23	1,157251E+23	2,665733E+23
-281	7,542172E+22	7,542235E+22	5,786432E+22	5,786256E+22	1,508441E+23	1,157269E+23	2,665709E+23
-280	7,542345E+22	7,542396E+22	5,786397E+22	5,786481E+22	1,508474E+23	1,157288E+23	2,665762E+23
-279	7,542427E+22	7,542238E+22	5,786405E+22	5,786454E+22	1,508467E+23	1,157286E+23	2,665752E+23
-278	7,542078E+22	7,542320E+22	5,786553E+22	5,786535E+22	1,508440E+23	1,157309E+23	2,665749E+23
-277	7,542438E+22	7,542444E+22	5,786471E+22	5,786620E+22	1,508488E+23	1,157309E+23	2,665797E+23
-276	7,542367E+22	7,542209E+22	5,786578E+22	5,786471E+22	1,508458E+23	1,157305E+23	2,665762E+23
-275	7,542200E+22	7,542357E+22	5,786648E+22	5,786563E+22	1,508456E+23	1,157321E+23	2,665777E+23
-274	7,542530E+22	7,542376E+22	5,786550E+22	5,786543E+22	1,508491E+23	1,157309E+23	2,665800E+23
-273	7,542183E+22	7,542260E+22	5,786608E+22	5,786469E+22	1,508444E+23	1,157308E+23	2,665752E+23
-272	7,542202E+22	7,542442E+22	5,786515E+22	5,786582E+22	1,508464E+23	1,157310E+23	2,665774E+23
-271	7,542423E+22	7,542296E+22	5,786417E+22	5,786453E+22	1,508472E+23	1,157287E+23	2,665759E+23
-270	7,542081E+22	7,542232E+22	5,786486E+22	5,786374E+22	1,508431E+23	1,157286E+23	2,665717E+23
-269	7,542422E+22	7,542382E+22	5,786330E+22	5,786410E+22	1,508480E+23	1,157274E+23	2,665754E+23
-268	7,542431E+22	7,542191E+22	5,786313E+22	5,786248E+22	1,508462E+23	1,157256E+23	2,665718E+23
-267	7,542115E+22	7,542339E+22	5,786337E+22	5,786325E+22	1,508445E+23	1,157266E+23	2,665712E+23
-266	7,542467E+22	7,542436E+22	5,786243E+22	5,786344E+22	1,508490E+23	1,157259E+23	2,665749E+23
-265	7,542220E+22	7,542236E+22	5,786369E+22	5,786254E+22	1,508446E+23	1,157262E+23	2,665708E+23
-264	7,542175E+22	7,542368E+22	5,786419E+22	5,786381E+22	1,508454E+23	1,157280E+23	2,665734E+23
-263	7,542498E+22	7,542293E+22	5,786397E+22	5,786401E+22	1,508479E+23	1,157280E+23	2,665759E+23
-262	7,542103E+22	7,542198E+22	5,786563E+22	5,786451E+22	1,508430E+23	1,157301E+23	2,665731E+23
-261	7,542295E+22	7,542414E+22	5,786514E+22	5,786636E+22	1,508471E+23	1,157315E+23	2,665786E+23
-260	7,542401E+22	7,542244E+22	5,786562E+22	5,786596E+22	1,508465E+23	1,157316E+23	2,665780E+23
-259	7,542056E+22	7,542269E+22	5,786695E+22	5,786661E+22	1,508433E+23	1,157336E+23	2,665768E+23
-258	7,542465E+22	7,542386E+22	5,786655E+22	5,786707E+22	1,508485E+23	1,157336E+23	2,665821E+23
-257	7,542336E+22	7,542180E+22	5,786757E+22	5,786605E+22	1,508452E+23	1,157336E+23	2,665788E+23

1	14	15	16	17	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							
-256	7,542144E+22	7,542339E+22	5,786755E+22	5,786701E+22	1,508448E+23	1,157346E+23	2,665794E+23
-255	7,542465E+22	7,542381E+22	5,786625E+22	5,786724E+22	1,508485E+23	1,157335E+23	2,665819E+23
-254	7,542073E+22	7,542214E+22	5,786714E+22	5,786634E+22	1,508429E+23	1,157335E+23	2,665763E+23
-253	7,542184E+22	7,542379E+22	5,786618E+22	5,786654E+22	1,508456E+23	1,157327E+23	2,665784E+23
-252	7,542454E+22	7,542226E+22	5,786543E+22	5,786519E+22	1,508468E+23	1,157306E+23	2,665774E+23
-251	7,542091E+22	7,542169E+22	5,786562E+22	5,786468E+22	1,508426E+23	1,157303E+23	2,665729E+23
-250	7,542419E+22	7,542374E+22	5,786431E+22	5,786504E+22	1,508479E+23	1,157294E+23	2,665773E+23
-249	7,542348E+22	7,542231E+22	5,786437E+22	5,786384E+22	1,508458E+23	1,157282E+23	2,665740E+23
-248	7,542046E+22	7,542327E+22	5,786458E+22	5,786429E+22	1,508437E+23	1,157289E+23	2,665726E+23
-247	7,542440E+22	7,542410E+22	5,786389E+22	5,786475E+22	1,508485E+23	1,157286E+23	2,665771E+23
-246	7,542167E+22	7,542157E+22	5,786552E+22	5,786409E+22	1,508432E+23	1,157296E+23	2,665728E+23
-245	7,542156E+22	7,542309E+22	5,786577E+22	5,786519E+22	1,508446E+23	1,157310E+23	2,665756E+23
-244	7,542469E+22	7,542278E+22	5,786543E+22	5,786588E+22	1,508475E+23	1,157313E+23	2,665788E+23
-243	7,542041E+22	7,542161E+22	5,786652E+22	5,786648E+22	1,508420E+23	1,157330E+23	2,665750E+23
-242	7,542283E+22	7,542371E+22	5,786659E+22	5,786772E+22	1,508465E+23	1,157343E+23	2,665808E+23
-241	7,542388E+22	7,542215E+22	5,786734E+22	5,786714E+22	1,508460E+23	1,157345E+23	2,665805E+23
-240	7,542071E+22	7,542210E+22	5,786837E+22	5,786741E+22	1,508428E+23	1,157358E+23	2,665786E+23
-239	7,542471E+22	7,542386E+22	5,786783E+22	5,786841E+22	1,508486E+23	1,157362E+23	2,665848E+23
-238	7,542234E+22	7,542179E+22	5,786888E+22	5,786776E+22	1,508441E+23	1,157366E+23	2,665808E+23
-237	7,542039E+22	7,542346E+22	5,786871E+22	5,786834E+22	1,508438E+23	1,157371E+23	2,665809E+23
-236	7,542403E+22	7,542361E+22	5,786761E+22	5,786852E+22	1,508476E+23	1,157361E+23	2,665838E+23
-235	7,542042E+22	7,542111E+22	5,786814E+22	5,786747E+22	1,508415E+23	1,157356E+23	2,665771E+23
-234	7,542232E+22	7,542274E+22	5,786749E+22	5,786729E+22	1,508451E+23	1,157348E+23	2,665798E+23
-233	7,542457E+22	7,542189E+22	5,786659E+22	5,786626E+22	1,508465E+23	1,157329E+23	2,665793E+23
-232	7,542065E+22	7,542163E+22	5,786623E+22	5,786574E+22	1,508423E+23	1,157320E+23	2,665742E+23
-231	7,542373E+22	7,542414E+22	5,786502E+22	5,786639E+22	1,508479E+23	1,157314E+23	2,665793E+23
-230	7,542249E+22	7,542213E+22	5,786579E+22	5,786517E+22	1,508446E+23	1,157310E+23	2,665756E+23
-229	7,542009E+22	7,542281E+22	5,786622E+22	5,786511E+22	1,508429E+23	1,157313E+23	2,665742E+23
-228	7,542432E+22	7,542353E+22	5,786571E+22	5,786592E+22	1,508479E+23	1,157316E+23	2,665795E+23
-227	7,542132E+22	7,542081E+22	5,786679E+22	5,786583E+22	1,508421E+23	1,157326E+23	2,665747E+23
-226	7,542138E+22	7,542266E+22	5,786712E+22	5,786693E+22	1,508440E+23	1,157341E+23	2,665781E+23
-225	7,542398E+22	7,542283E+22	5,786686E+22	5,786775E+22	1,508468E+23	1,157346E+23	2,665814E+23
-224	7,542023E+22	7,542136E+22	5,786774E+22	5,786779E+22	1,508416E+23	1,157355E+23	2,665771E+23
-223	7,542304E+22	7,542352E+22	5,786795E+22	5,786892E+22	1,508466E+23	1,157369E+23	2,665834E+23
-222	7,542354E+22	7,542177E+22	5,786917E+22	5,786847E+22	1,508453E+23	1,157376E+23	2,665830E+23
-221	7,542041E+22	7,542197E+22	5,786993E+22	5,786858E+22	1,508424E+23	1,157385E+23	2,665809E+23
-220	7,542388E+22	7,542396E+22	5,786927E+22	5,787004E+22	1,508478E+23	1,157393E+23	2,665871E+23
-219	7,542126E+22	7,542132E+22	5,786988E+22	5,786958E+22	1,508426E+23	1,157395E+23	2,665820E+23
-218	7,542016E+22	7,542244E+22	5,787004E+22	5,786949E+22	1,508426E+23	1,157395E+23	2,665821E+23
-217	7,542393E+22	7,542279E+22	5,786897E+22	5,786945E+22	1,508467E+23	1,157384E+23	2,665851E+23
-216	7,542091E+22	7,542027E+22	5,786888E+22	5,786805E+22	1,508412E+23	1,157369E+23	2,665781E+23
-215	7,542263E+22	7,542276E+22	5,786806E+22	5,786827E+22	1,508454E+23	1,157363E+23	2,665817E+23
-214	7,542377E+22	7,542230E+22	5,786755E+22	5,786756E+22	1,508461E+23	1,157351E+23	2,665812E+23
-213	7,541985E+22	7,542205E+22	5,786741E+22	5,786669E+22	1,508419E+23	1,157341E+23	2,665760E+23
-212	7,542299E+22	7,542426E+22	5,786672E+22	5,786748E+22	1,508473E+23	1,157342E+23	2,665815E+23
-211	7,542193E+22	7,542131E+22	5,786735E+22	5,786653E+22	1,508432E+23	1,157339E+23	2,665771E+23
-210	7,542019E+22	7,542164E+22	5,786805E+22	5,786644E+22	1,508418E+23	1,157345E+23	2,665763E+23
-209	7,542396E+22	7,542301E+22	5,786725E+22	5,786774E+22	1,508470E+23	1,157350E+23	2,665820E+23
-208	7,542098E+22	7,542037E+22	5,786751E+22	5,786762E+22	1,508414E+23	1,157351E+23	2,665765E+23

1	14	15	16	17	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							
-207	7,542120E+22	7,542269E+22	5,786787E+22	5,786871E+22	1,508439E+23	1,157366E+23	2,665805E+23
-206	7,542354E+22	7,542252E+22	5,786827E+22	5,786912E+22	1,508461E+23	1,157374E+23	2,665834E+23
-205	7,542027E+22	7,542103E+22	5,786939E+22	5,786846E+22	1,508413E+23	1,157379E+23	2,665792E+23
-204	7,542303E+22	7,542345E+22	5,786983E+22	5,786988E+22	1,508465E+23	1,157397E+23	2,665862E+23
-203	7,542291E+22	7,542142E+22	5,787062E+22	5,787004E+22	1,508443E+23	1,157407E+23	2,665850E+23
-202	7,541981E+22	7,542162E+22	5,787153E+22	5,787020E+22	1,508414E+23	1,157417E+23	2,665832E+23
-201	7,542283E+22	7,542376E+22	5,787080E+22	5,787171E+22	1,508466E+23	1,157425E+23	2,665891E+23
-200	7,542095E+22	7,542052E+22	5,787091E+22	5,787080E+22	1,508415E+23	1,157417E+23	2,665832E+23
-199	7,542051E+22	7,542180E+22	5,787095E+22	5,787057E+22	1,508423E+23	1,157415E+23	2,665838E+23
-198	7,542389E+22	7,542221E+22	5,787018E+22	5,787055E+22	1,508461E+23	1,157407E+23	2,665868E+23
-197	7,542087E+22	7,542037E+22	5,786980E+22	5,786890E+22	1,508412E+23	1,157387E+23	2,665799E+23
-196	7,542204E+22	7,542338E+22	5,786903E+22	5,786946E+22	1,508454E+23	1,157385E+23	2,665839E+23
-195	7,542276E+22	7,542225E+22	5,786855E+22	5,786895E+22	1,508450E+23	1,157375E+23	2,665825E+23
-194	7,541961E+22	7,542129E+22	5,786905E+22	5,786769E+22	1,508409E+23	1,157367E+23	2,665776E+23
-193	7,542252E+22	7,542352E+22	5,786853E+22	5,786855E+22	1,508460E+23	1,157371E+23	2,665831E+23
-192	7,542204E+22	7,542036E+22	5,786850E+22	5,786777E+22	1,508424E+23	1,157363E+23	2,665787E+23
-191	7,542028E+22	7,542126E+22	5,786881E+22	5,786806E+22	1,508415E+23	1,157369E+23	2,665784E+23
-190	7,542318E+22	7,542293E+22	5,786836E+22	5,786957E+22	1,508461E+23	1,157379E+23	2,665840E+23
-189	7,542061E+22	7,542054E+22	5,786866E+22	5,786880E+22	1,508412E+23	1,157375E+23	2,665786E+23
-188	7,542098E+22	7,542279E+22	5,786948E+22	5,786978E+22	1,508438E+23	1,157393E+23	2,665830E+23
-187	7,542329E+22	7,542200E+22	5,787000E+22	5,787036E+22	1,508453E+23	1,157404E+23	2,665857E+23
-186	7,542048E+22	7,542024E+22	5,787147E+22	5,786970E+22	1,508407E+23	1,157412E+23	2,665819E+23
-185	7,542221E+22	7,542332E+22	5,787170E+22	5,787158E+22	1,508455E+23	1,157433E+23	2,665888E+23
-184	7,542216E+22	7,542109E+22	5,787164E+22	5,787192E+22	1,508433E+23	1,157436E+23	2,665868E+23
-183	7,541933E+22	7,542122E+22	5,787242E+22	5,787195E+22	1,508406E+23	1,157444E+23	2,665849E+23
-182	7,542230E+22	7,542301E+22	5,787215E+22	5,787308E+22	1,508453E+23	1,157452E+23	2,665905E+23
-181	7,542122E+22	7,541993E+22	5,787201E+22	5,787142E+22	1,508412E+23	1,157434E+23	2,665846E+23
-180	7,542081E+22	7,542178E+22	5,787202E+22	5,787140E+22	1,508426E+23	1,157434E+23	2,665860E+23
-179	7,542348E+22	7,542221E+22	5,787102E+22	5,787178E+22	1,508457E+23	1,157428E+23	2,665885E+23
-178	7,542047E+22	7,542043E+22	5,787105E+22	5,787002E+22	1,508409E+23	1,157411E+23	2,665820E+23
-177	7,542103E+22	7,542356E+22	5,787060E+22	5,787055E+22	1,508446E+23	1,157411E+23	2,665857E+23
-176	7,542235E+22	7,542154E+22	5,786976E+22	5,786996E+22	1,508439E+23	1,157397E+23	2,665836E+23
-175	7,541971E+22	7,542046E+22	5,787028E+22	5,786889E+22	1,508402E+23	1,157392E+23	2,665793E+23
-174	7,542220E+22	7,542262E+22	5,786993E+22	5,787003E+22	1,508448E+23	1,157400E+23	2,665848E+23
-173	7,542174E+22	7,542006E+22	5,786940E+22	5,786915E+22	1,508418E+23	1,157386E+23	2,665804E+23
-172	7,541984E+22	7,542158E+22	5,786966E+22	5,786968E+22	1,508414E+23	1,157393E+23	2,665808E+23
-171	7,542260E+22	7,542259E+22	5,786943E+22	5,787107E+22	1,508452E+23	1,157405E+23	2,665857E+23
-170	7,542085E+22	7,541990E+22	5,787044E+22	5,786972E+22	1,508407E+23	1,157402E+23	2,665809E+23
-169	7,542081E+22	7,542248E+22	5,787153E+22	5,787068E+22	1,508433E+23	1,157422E+23	2,665855E+23
-168	7,542322E+22	7,542151E+22	5,787147E+22	5,787167E+22	1,508447E+23	1,157431E+23	2,665879E+23
-167	7,542010E+22	7,542022E+22	5,787275E+22	5,787155E+22	1,508403E+23	1,157443E+23	2,665846E+23
-166	7,542093E+22	7,542322E+22	5,787324E+22	5,787363E+22	1,508441E+23	1,157469E+23	2,665910E+23
-165	7,542145E+22	7,542091E+22	5,787298E+22	5,787338E+22	1,508424E+23	1,157464E+23	2,665887E+23
-164	7,541921E+22	7,542095E+22	5,787374E+22	5,787322E+22	1,508402E+23	1,157470E+23	2,665871E+23
-163	7,542231E+22	7,542214E+22	5,787343E+22	5,787430E+22	1,508444E+23	1,157477E+23	2,665922E+23
-162	7,542180E+22	7,541928E+22	5,787339E+22	5,787240E+22	1,508411E+23	1,157458E+23	2,665869E+23
-161	7,542029E+22	7,542198E+22	5,787324E+22	5,787251E+22	1,508423E+23	1,157458E+23	2,665880E+23
-160	7,542291E+22	7,542226E+22	5,787169E+22	5,787303E+22	1,508452E+23	1,157447E+23	2,665899E+23
-159	7,542012E+22	7,542016E+22	5,787194E+22	5,787113E+22	1,508403E+23	1,157431E+23	2,665833E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-158	7,542025E+22	7,542280E+22	5,787212E+22	5,787155E+22	1,508431E+23	1,157437E+23	2,665867E+23
-157	7,542225E+22	7,542088E+22	5,787100E+22	5,787067E+22	1,508431E+23	1,157417E+23	2,665848E+23
-156	7,541969E+22	7,542017E+22	5,787129E+22	5,787011E+22	1,508399E+23	1,157414E+23	2,665813E+23
-155	7,542161E+22	7,542226E+22	5,787083E+22	5,787172E+22	1,508439E+23	1,157426E+23	2,665864E+23
-154	7,542158E+22	7,541987E+22	5,787059E+22	5,787057E+22	1,508414E+23	1,157412E+23	2,665826E+23
-153	7,541923E+22	7,542171E+22	5,787124E+22	5,787084E+22	1,508409E+23	1,157421E+23	2,665830E+23
-152	7,542257E+22	7,542215E+22	5,787080E+22	5,787217E+22	1,508447E+23	1,157430E+23	2,665877E+23
-151	7,542110E+22	7,541943E+22	5,787206E+22	5,787098E+22	1,508405E+23	1,157430E+23	2,665836E+23
-150	7,542017E+22	7,542209E+22	5,787348E+22	5,787239E+22	1,508423E+23	1,157459E+23	2,665881E+23
-149	7,542243E+22	7,542154E+22	5,787285E+22	5,787343E+22	1,508440E+23	1,157463E+23	2,665903E+23
-148	7,541931E+22	7,542037E+22	5,787395E+22	5,787358E+22	1,508397E+23	1,157475E+23	2,665872E+23
-147	7,542022E+22	7,542239E+22	5,787456E+22	5,787541E+22	1,508426E+23	1,157500E+23	2,665926E+23
-146	7,542181E+22	7,541985E+22	5,787456E+22	5,787444E+22	1,508417E+23	1,157490E+23	2,665907E+23
-145	7,541945E+22	7,542052E+22	5,787525E+22	5,787402E+22	1,508400E+23	1,157493E+23	2,665892E+23
-144	7,542261E+22	7,542166E+22	5,787423E+22	5,787527E+22	1,508443E+23	1,157495E+23	2,665938E+23
-143	7,542164E+22	7,541953E+22	5,787418E+22	5,787356E+22	1,508412E+23	1,157477E+23	2,665889E+23
-142	7,541920E+22	7,542219E+22	5,787450E+22	5,787374E+22	1,508414E+23	1,157482E+23	2,665896E+23
-141	7,542204E+22	7,542221E+22	5,787291E+22	5,787383E+22	1,508442E+23	1,157467E+23	2,665910E+23
-140	7,541974E+22	7,541994E+22	5,787326E+22	5,787219E+22	1,508397E+23	1,157455E+23	2,665851E+23
-139	7,541986E+22	7,542167E+22	5,787349E+22	5,787287E+22	1,508415E+23	1,157464E+23	2,665879E+23
-138	7,542238E+22	7,542001E+22	5,787233E+22	5,787202E+22	1,508424E+23	1,157444E+23	2,665867E+23
-137	7,541912E+22	7,542024E+22	5,787231E+22	5,787159E+22	1,508394E+23	1,157439E+23	2,665833E+23
-136	7,542126E+22	7,542198E+22	5,787141E+22	5,787325E+22	1,508432E+23	1,157447E+23	2,665879E+23
-135	7,542162E+22	7,541964E+22	5,787162E+22	5,787174E+22	1,508413E+23	1,157434E+23	2,665846E+23
-134	7,541892E+22	7,542126E+22	5,787303E+22	5,787185E+22	1,508402E+23	1,157449E+23	2,665851E+23
-133	7,542247E+22	7,542192E+22	5,787246E+22	5,787305E+22	1,508444E+23	1,157455E+23	2,665899E+23
-132	7,542081E+22	7,541963E+22	5,787359E+22	5,787260E+22	1,508404E+23	1,157462E+23	2,665866E+23
-131	7,541907E+22	7,542181E+22	5,787504E+22	5,787450E+22	1,508409E+23	1,157495E+23	2,665904E+23
-130	7,542191E+22	7,542114E+22	5,787454E+22	5,787526E+22	1,508430E+23	1,157498E+23	2,665928E+23
-129	7,541872E+22	7,541999E+22	5,787566E+22	5,787499E+22	1,508387E+23	1,157507E+23	2,665894E+23
-128	7,542046E+22	7,542140E+22	5,787576E+22	5,787667E+22	1,508419E+23	1,157524E+23	2,665943E+23
-127	7,542248E+22	7,541914E+22	5,787570E+22	5,787549E+22	1,508416E+23	1,157512E+23	2,665928E+23
-126	7,541910E+22	7,542029E+22	5,787658E+22	5,787527E+22	1,508394E+23	1,157518E+23	2,665912E+23
-125	7,542192E+22	7,542212E+22	5,787507E+22	5,787637E+22	1,508440E+23	1,157514E+23	2,665955E+23
-124	7,542085E+22	7,542003E+22	5,787507E+22	5,787487E+22	1,508409E+23	1,157499E+23	2,665908E+23
-123	7,541824E+22	7,542152E+22	5,787589E+22	5,787495E+22	1,508398E+23	1,157508E+23	2,665906E+23
-122	7,542198E+22	7,542123E+22	5,787447E+22	5,787464E+22	1,508432E+23	1,157491E+23	2,665923E+23
-121	7,541952E+22	7,541935E+22	5,787469E+22	5,787311E+22	1,508389E+23	1,157478E+23	2,665867E+23
-120	7,541986E+22	7,542093E+22	5,787416E+22	5,787428E+22	1,508408E+23	1,157484E+23	2,665892E+23
-119	7,542224E+22	7,541991E+22	5,787299E+22	5,787349E+22	1,508422E+23	1,157465E+23	2,665886E+23
-118	7,541839E+22	7,542032E+22	5,787350E+22	5,787297E+22	1,508387E+23	1,157465E+23	2,665852E+23
-117	7,542090E+22	7,542202E+22	5,787264E+22	5,787407E+22	1,508429E+23	1,157467E+23	2,665896E+23
-116	7,542163E+22	7,541974E+22	5,787314E+22	5,787284E+22	1,508414E+23	1,157460E+23	2,665873E+23
-115	7,541859E+22	7,542050E+22	5,787496E+22	5,787332E+22	1,508391E+23	1,157483E+23	2,665874E+23
-114	7,542214E+22	7,542143E+22	5,787434E+22	5,787470E+22	1,508436E+23	1,157490E+23	2,665926E+23
-113	7,541986E+22	7,541975E+22	5,787524E+22	5,787453E+22	1,508396E+23	1,157498E+23	2,665894E+23
-112	7,541854E+22	7,542099E+22	5,787608E+22	5,787645E+22	1,508395E+23	1,157525E+23	2,665921E+23
-111	7,542191E+22	7,542027E+22	5,787582E+22	5,787667E+22	1,508422E+23	1,157525E+23	2,665947E+23
-110	7,541873E+22	7,541927E+22	5,787719E+22	5,787610E+22	1,508380E+23	1,157533E+23	2,665913E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-109	7,542064E+22	7,542108E+22	5,787686E+22	5,787746E+22	1,508417E+23	1,157543E+23	2,665960E+23
-108	7,542235E+22	7,541975E+22	5,787665E+22	5,787678E+22	1,508421E+23	1,157534E+23	2,665955E+23
-107	7,541813E+22	7,542041E+22	5,787784E+22	5,787678E+22	1,508385E+23	1,157546E+23	2,665932E+23
-106	7,542115E+22	7,542207E+22	5,787664E+22	5,787751E+22	1,508432E+23	1,157542E+23	2,665974E+23
-105	7,542002E+22	7,541992E+22	5,787680E+22	5,787584E+22	1,508399E+23	1,157526E+23	2,665926E+23
-104	7,541811E+22	7,542031E+22	5,787708E+22	5,787613E+22	1,508384E+23	1,157532E+23	2,665916E+23
-103	7,542222E+22	7,542023E+22	5,787561E+22	5,787586E+22	1,508425E+23	1,157515E+23	2,665939E+23
-102	7,541913E+22	7,541890E+22	5,787571E+22	5,787462E+22	1,508380E+23	1,157503E+23	2,665883E+23
-101	7,541940E+22	7,542103E+22	5,787465E+22	5,787556E+22	1,508404E+23	1,157502E+23	2,665906E+23
-100	7,542199E+22	7,542031E+22	5,787367E+22	5,787477E+22	1,508423E+23	1,157484E+23	2,665907E+23
-99	7,541799E+22	7,541977E+22	5,787500E+22	5,787402E+22	1,508378E+23	1,157490E+23	2,665868E+23
-98	7,542109E+22	7,542150E+22	5,787452E+22	5,787476E+22	1,508426E+23	1,157493E+23	2,665919E+23
-97	7,542133E+22	7,541961E+22	5,787505E+22	5,787388E+22	1,508409E+23	1,157489E+23	2,665899E+23
-96	7,541811E+22	7,541996E+22	5,787627E+22	5,787517E+22	1,508381E+23	1,157514E+23	2,665895E+23
-95	7,542153E+22	7,542114E+22	5,787563E+22	5,787660E+22	1,508427E+23	1,157522E+23	2,665949E+23
-94	7,541887E+22	7,541934E+22	5,787682E+22	5,787639E+22	1,508382E+23	1,157532E+23	2,665914E+23
-93	7,541825E+22	7,542050E+22	5,787734E+22	5,787772E+22	1,508387E+23	1,157551E+23	2,665938E+23
-92	7,542220E+22	7,542003E+22	5,787705E+22	5,787797E+22	1,508422E+23	1,157550E+23	2,665973E+23
-91	7,541869E+22	7,541862E+22	5,787876E+22	5,787750E+22	1,508373E+23	1,157563E+23	2,665936E+23
-90	7,542047E+22	7,542109E+22	5,787828E+22	5,787872E+22	1,508416E+23	1,157570E+23	2,665986E+23
-89	7,542140E+22	7,542033E+22	5,787804E+22	5,787811E+22	1,508417E+23	1,157561E+23	2,665979E+23
-88	7,541748E+22	7,541984E+22	5,787893E+22	5,787823E+22	1,508373E+23	1,157572E+23	2,665945E+23
-87	7,542090E+22	7,542117E+22	5,787804E+22	5,787847E+22	1,508421E+23	1,157565E+23	2,665986E+23
-86	7,541974E+22	7,541900E+22	5,787831E+22	5,787687E+22	1,508387E+23	1,157552E+23	2,665939E+23
-85	7,541812E+22	7,541966E+22	5,787789E+22	5,787707E+22	1,508378E+23	1,157550E+23	2,665927E+23
-84	7,542208E+22	7,542047E+22	5,787615E+22	5,787728E+22	1,508426E+23	1,157534E+23	2,665960E+23
-83	7,541853E+22	7,541880E+22	5,787665E+22	5,787608E+22	1,508373E+23	1,157527E+23	2,665901E+23
-82	7,541911E+22	7,542099E+22	5,787591E+22	5,787645E+22	1,508401E+23	1,157524E+23	2,665925E+23
-81	7,542162E+22	7,542052E+22	5,787537E+22	5,787550E+22	1,508421E+23	1,157509E+23	2,665930E+23
-80	7,541811E+22	7,541885E+22	5,787645E+22	5,787516E+22	1,508370E+23	1,157516E+23	2,665886E+23
-79	7,542091E+22	7,542078E+22	5,787619E+22	5,787608E+22	1,508417E+23	1,157523E+23	2,665940E+23
-78	7,542040E+22	7,541944E+22	5,787662E+22	5,787585E+22	1,508398E+23	1,157525E+23	2,665923E+23
-77	7,541721E+22	7,541972E+22	5,787722E+22	5,787703E+22	1,508369E+23	1,157543E+23	2,665912E+23
-76	7,542106E+22	7,542102E+22	5,787667E+22	5,787842E+22	1,508421E+23	1,157551E+23	2,665972E+23
-75	7,541872E+22	7,541835E+22	5,787838E+22	5,787781E+22	1,508371E+23	1,157562E+23	2,665933E+23
-74	7,541871E+22	7,541986E+22	5,787894E+22	5,787861E+22	1,508386E+23	1,157575E+23	2,665961E+23
-73	7,542218E+22	7,542025E+22	5,787868E+22	5,787897E+22	1,508424E+23	1,157576E+23	2,666001E+23
-72	7,541843E+22	7,541847E+22	5,787991E+22	5,787905E+22	1,508369E+23	1,157590E+23	2,665959E+23
-71	7,541982E+22	7,542112E+22	5,787974E+22	5,788007E+22	1,508409E+23	1,157598E+23	2,666007E+23
-70	7,542038E+22	7,542018E+22	5,787976E+22	5,787950E+22	1,508406E+23	1,157593E+23	2,665998E+23
-69	7,541702E+22	7,541919E+22	5,788021E+22	5,787927E+22	1,508362E+23	1,157595E+23	2,665957E+23
-68	7,542094E+22	7,542065E+22	5,787910E+22	5,787972E+22	1,508416E+23	1,157588E+23	2,666004E+23
-67	7,541954E+22	7,541806E+22	5,787953E+22	5,787836E+22	1,508376E+23	1,157579E+23	2,665955E+23
-66	7,541800E+22	7,541955E+22	5,787871E+22	5,787836E+22	1,508376E+23	1,157571E+23	2,665946E+23
-65	7,542151E+22	7,542087E+22	5,787703E+22	5,787838E+22	1,508424E+23	1,157554E+23	2,665978E+23
-64	7,541834E+22	7,541824E+22	5,787749E+22	5,787717E+22	1,508366E+23	1,157547E+23	2,665912E+23
-63	7,541921E+22	7,542037E+22	5,787731E+22	5,787699E+22	1,508396E+23	1,157543E+23	2,665939E+23
-62	7,542129E+22	7,542004E+22	5,787704E+22	5,787642E+22	1,508413E+23	1,157535E+23	2,665948E+23
-61	7,541773E+22	7,541852E+22	5,787764E+22	5,787644E+22	1,508363E+23	1,157541E+23	2,665903E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,542021E+22	7,542102E+22	5,787719E+22	5,787797E+22	1,508412E+23	1,157552E+23	2,665964E+23
-59	7,541939E+22	7,541899E+22	5,787813E+22	5,787789E+22	1,508384E+23	1,157560E+23	2,665944E+23
-58	7,541689E+22	7,541928E+22	5,787873E+22	5,787844E+22	1,508362E+23	1,157572E+23	2,665933E+23
-57	7,542097E+22	7,542074E+22	5,787844E+22	5,787951E+22	1,508417E+23	1,157580E+23	2,665997E+23
-56	7,541923E+22	7,541735E+22	5,787980E+22	5,787918E+22	1,508366E+23	1,157590E+23	2,665956E+23
-55	7,541895E+22	7,541939E+22	5,788049E+22	5,787985E+22	1,508383E+23	1,157603E+23	2,665987E+23
-54	7,542142E+22	7,542055E+22	5,788020E+22	5,788067E+22	1,508420E+23	1,157609E+23	2,666028E+23
-53	7,541761E+22	7,541854E+22	5,788097E+22	5,788058E+22	1,508361E+23	1,157615E+23	2,665977E+23
-52	7,541914E+22	7,542108E+22	5,788095E+22	5,788149E+22	1,508402E+23	1,157624E+23	2,666027E+23
-51	7,541998E+22	7,541914E+22	5,788145E+22	5,788078E+22	1,508391E+23	1,157622E+23	2,666014E+23
-50	7,541717E+22	7,541833E+22	5,788151E+22	5,788016E+22	1,508355E+23	1,157617E+23	2,665972E+23
-49	7,542075E+22	7,542061E+22	5,788024E+22	5,788079E+22	1,508414E+23	1,157610E+23	2,666024E+23
-48	7,541940E+22	7,541767E+22	5,788002E+22	5,787982E+22	1,508371E+23	1,157598E+23	2,665969E+23
-47	7,541766E+22	7,541940E+22	5,787959E+22	5,787934E+22	1,508371E+23	1,157589E+23	2,665960E+23
-46	7,542087E+22	7,542094E+22	5,787838E+22	5,787931E+22	1,508418E+23	1,157577E+23	2,665995E+23
-45	7,541818E+22	7,541784E+22	5,787864E+22	5,787788E+22	1,508360E+23	1,157565E+23	2,665926E+23
-44	7,541909E+22	7,542017E+22	5,787861E+22	5,787809E+22	1,508393E+23	1,157567E+23	2,665960E+23
-43	7,542070E+22	7,541940E+22	5,787868E+22	5,787811E+22	1,508401E+23	1,157568E+23	2,665969E+23
-42	7,541707E+22	7,541837E+22	5,787888E+22	5,787816E+22	1,508354E+23	1,157570E+23	2,665925E+23
-41	7,541939E+22	7,542105E+22	5,787857E+22	5,787960E+22	1,508404E+23	1,157582E+23	2,665986E+23
-40	7,541932E+22	7,541791E+22	5,787931E+22	5,787950E+22	1,508372E+23	1,157588E+23	2,665960E+23
-39	7,541736E+22	7,541832E+22	5,788029E+22	5,787940E+22	1,508357E+23	1,157597E+23	2,665954E+23
-38	7,542106E+22	7,542038E+22	5,788012E+22	5,788069E+22	1,508414E+23	1,157608E+23	2,666022E+23
-37	7,541912E+22	7,541741E+22	5,788095E+22	5,788051E+22	1,508365E+23	1,157615E+23	2,665980E+23
-36	7,541836E+22	7,542008E+22	5,788162E+22	5,788152E+22	1,508384E+23	1,157631E+23	2,666016E+23
-35	7,542030E+22	7,542040E+22	5,788199E+22	5,788246E+22	1,508407E+23	1,157644E+23	2,666051E+23
-34	7,541701E+22	7,541829E+22	5,788268E+22	5,788187E+22	1,508353E+23	1,157646E+23	2,665999E+23
-33	7,541875E+22	7,542060E+22	5,788268E+22	5,788252E+22	1,508393E+23	1,157652E+23	2,666046E+23
-32	7,542009E+22	7,541780E+22	5,788260E+22	5,788224E+22	1,508379E+23	1,157648E+23	2,666027E+23
-31	7,541731E+22	7,541762E+22	5,788245E+22	5,788138E+22	1,508349E+23	1,157638E+23	2,665988E+23
-30	7,542011E+22	7,542064E+22	5,788103E+22	5,788223E+22	1,508407E+23	1,157633E+23	2,666040E+23
-29	7,541898E+22	7,541766E+22	5,788046E+22	5,788086E+22	1,508366E+23	1,157613E+23	2,665980E+23
-28	7,541754E+22	7,541943E+22	5,788040E+22	5,788007E+22	1,508370E+23	1,157605E+23	2,665974E+23
-27	7,542062E+22	7,542023E+22	5,788001E+22	5,788007E+22	1,508408E+23	1,157601E+23	2,666009E+23
-26	7,541812E+22	7,541753E+22	5,788011E+22	5,787868E+22	1,508356E+23	1,157588E+23	2,665944E+23
-25	7,541838E+22	7,542030E+22	5,788014E+22	5,787936E+22	1,508387E+23	1,157595E+23	2,665982E+23
-24	7,542000E+22	7,541886E+22	5,787979E+22	5,788010E+22	1,508389E+23	1,157599E+23	2,665988E+23
-23	7,541666E+22	7,541778E+22	5,788024E+22	5,787968E+22	1,508344E+23	1,157599E+23	2,665944E+23
-22	7,541897E+22	7,542060E+22	5,788019E+22	5,788108E+22	1,508396E+23	1,157613E+23	2,666008E+23
-21	7,541958E+22	7,541730E+22	5,788048E+22	5,788070E+22	1,508369E+23	1,157612E+23	2,665981E+23
-20	7,541765E+22	7,541824E+22	5,788154E+22	5,788076E+22	1,508359E+23	1,157623E+23	2,665982E+23
-19	7,542063E+22	7,542026E+22	5,788184E+22	5,788248E+22	1,508409E+23	1,157643E+23	2,666052E+23
-18	7,541838E+22	7,541778E+22	5,788234E+22	5,788214E+22	1,508362E+23	1,157645E+23	2,666006E+23
-17	7,541730E+22	7,542035E+22	5,788335E+22	5,788299E+22	1,508376E+23	1,157663E+23	2,666040E+23
-16	7,541991E+22	7,541928E+22	5,788345E+22	5,788396E+22	1,508392E+23	1,157674E+23	2,666066E+23
-15	7,541714E+22	7,541699E+22	5,788424E+22	5,788283E+22	1,508341E+23	1,157671E+23	2,666012E+23
-14	7,541859E+22	7,541991E+22	5,788405E+22	5,788376E+22	1,508385E+23	1,157678E+23	2,666063E+23
-13	7,541998E+22	7,541752E+22	5,788310E+22	5,788352E+22	1,508375E+23	1,157666E+23	2,666041E+23
-12	7,541701E+22	7,541807E+22	5,788290E+22	5,788265E+22	1,508351E+23	1,157656E+23	2,666006E+23

1	14	15	16	17	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							
-11	7,541946E+22	7,542053E+22	5,788228E+22	5,788337E+22	1,508400E+23	1,157656E+23	2,666056E+23
-10	7,541865E+22	7,541773E+22	5,788178E+22	5,788144E+22	1,508364E+23	1,157632E+23	2,665996E+23
-9	7,541724E+22	7,541936E+22	5,788213E+22	5,788068E+22	1,508366E+23	1,157628E+23	2,665994E+23
-8	7,542042E+22	7,541923E+22	5,788142E+22	5,788144E+22	1,508396E+23	1,157629E+23	2,666025E+23
-7	7,541776E+22	7,541694E+22	5,788147E+22	5,788022E+22	1,508347E+23	1,157617E+23	2,665964E+23
-6	7,541737E+22	7,542013E+22	5,788136E+22	5,788130E+22	1,508375E+23	1,157627E+23	2,666002E+23
-5	7,541947E+22	7,541835E+22	5,788057E+22	5,788175E+22	1,508378E+23	1,157623E+23	2,666001E+23
-4	7,541683E+22	7,541742E+22	5,788119E+22	5,788092E+22	1,508343E+23	1,157621E+23	2,665964E+23
-3	7,541910E+22	7,541975E+22	5,788183E+22	5,788227E+22	1,508388E+23	1,157641E+23	2,666030E+23
-2	7,541972E+22	7,541740E+22	5,788190E+22	5,788176E+22	1,508371E+23	1,157637E+23	2,666008E+23
-1	7,541717E+22	7,541880E+22	5,788316E+22	5,788206E+22	1,508360E+23	1,157652E+23	2,666012E+23
1	7,541973E+22	7,542001E+22	5,788333E+22	5,788434E+22	1,508397E+23	1,157677E+23	2,666074E+23
2	7,541775E+22	7,541737E+22	5,788420E+22	5,788359E+22	1,508351E+23	1,157678E+23	2,666029E+23
3	7,541655E+22	7,541969E+22	5,788528E+22	5,788445E+22	1,508362E+23	1,157697E+23	2,666060E+23
4	7,541985E+22	7,541823E+22	5,788468E+22	5,788530E+22	1,508381E+23	1,157700E+23	2,666081E+23
5	7,541742E+22	7,541646E+22	5,788511E+22	5,788422E+22	1,508339E+23	1,157693E+23	2,666032E+23
6	7,541823E+22	7,541947E+22	5,788514E+22	5,788541E+22	1,508377E+23	1,157706E+23	2,666083E+23
7	7,541948E+22	7,541798E+22	5,788378E+22	5,788469E+22	1,508375E+23	1,157685E+23	2,666059E+23
8	7,541650E+22	7,541843E+22	5,788411E+22	5,788342E+22	1,508349E+23	1,157675E+23	2,666025E+23
9	7,541927E+22	7,541973E+22	5,788360E+22	5,788421E+22	1,508390E+23	1,157678E+23	2,666068E+23
10	7,541878E+22	7,541695E+22	5,788339E+22	5,788203E+22	1,508357E+23	1,157654E+23	2,666011E+23
11	7,541667E+22	7,541902E+22	5,788369E+22	5,788194E+22	1,508357E+23	1,157656E+23	2,666013E+23
12	7,541973E+22	7,541899E+22	5,788218E+22	5,788309E+22	1,508387E+23	1,157653E+23	2,666040E+23
13	7,541716E+22	7,541700E+22	5,788219E+22	5,788198E+22	1,508342E+23	1,157642E+23	2,665983E+23
14	7,541680E+22	7,541954E+22	5,788281E+22	5,788298E+22	1,508363E+23	1,157658E+23	2,666021E+23
15	7,541945E+22	7,541806E+22	5,788184E+22	5,788273E+22	1,508375E+23	1,157646E+23	2,666021E+23
16	7,541700E+22	7,541726E+22	5,788286E+22	5,788181E+22	1,508343E+23	1,157647E+23	2,665989E+23
17	7,541916E+22	7,541905E+22	5,788330E+22	5,788374E+22	1,508382E+23	1,157670E+23	2,666052E+23
18	7,541936E+22	7,541724E+22	5,788348E+22	5,788325E+22	1,508366E+23	1,157667E+23	2,666033E+23
19	7,541603E+22	7,541894E+22	5,788487E+22	5,788392E+22	1,508350E+23	1,157688E+23	2,666038E+23
20	7,541897E+22	7,541943E+22	5,788462E+22	5,788593E+22	1,508384E+23	1,157706E+23	2,666089E+23
21	7,541767E+22	7,541669E+22	5,788557E+22	5,788492E+22	1,508344E+23	1,157705E+23	2,666049E+23
22	7,541649E+22	7,541853E+22	5,788698E+22	5,788589E+22	1,508350E+23	1,157729E+23	2,666079E+23
23	7,541975E+22	7,541808E+22	5,788575E+22	5,788650E+22	1,508378E+23	1,157722E+23	2,666101E+23
24	7,541708E+22	7,541696E+22	5,788618E+22	5,788548E+22	1,508340E+23	1,157717E+23	2,666057E+23
25	7,541772E+22	7,541922E+22	5,788610E+22	5,788686E+22	1,508369E+23	1,157730E+23	2,666099E+23
26	7,541921E+22	7,541781E+22	5,788522E+22	5,788550E+22	1,508370E+23	1,157707E+23	2,666077E+23
27	7,541602E+22	7,541819E+22	5,788581E+22	5,788429E+22	1,508342E+23	1,157701E+23	2,666043E+23
28	7,541901E+22	7,541900E+22	5,788479E+22	5,788519E+22	1,508380E+23	1,157700E+23	2,666080E+23
29	7,541866E+22	7,541664E+22	5,788439E+22	5,788343E+22	1,508353E+23	1,157678E+23	2,666031E+23
30	7,541585E+22	7,541843E+22	5,788488E+22	5,788385E+22	1,508343E+23	1,157687E+23	2,666030E+23
31	7,541891E+22	7,541903E+22	5,788297E+22	5,788458E+22	1,508379E+23	1,157676E+23	2,666055E+23
32	7,541695E+22	7,541681E+22	5,788332E+22	5,788300E+22	1,508338E+23	1,157663E+23	2,666001E+23
33	7,541698E+22	7,541832E+22	5,788403E+22	5,788400E+22	1,508353E+23	1,157680E+23	2,666033E+23
34	7,541995E+22	7,541742E+22	5,788339E+22	5,788344E+22	1,508374E+23	1,157668E+23	2,666042E+23
35	7,541669E+22	7,541730E+22	5,788453E+22	5,788307E+22	1,508340E+23	1,157676E+23	2,666016E+23
36	7,541841E+22	7,541914E+22	5,788449E+22	5,788535E+22	1,508375E+23	1,157698E+23	2,666074E+23
37	7,541866E+22	7,541749E+22	5,788484E+22	5,788499E+22	1,508361E+23	1,157698E+23	2,666060E+23
38	7,541513E+22	7,541828E+22	5,788690E+22	5,788577E+22	1,508334E+23	1,157727E+23	2,666061E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,541849E+22	7,541902E+22	5,788625E+22	5,788726E+22	1,508375E+23	1,157735E+23	2,666110E+23
40	7,541773E+22	7,541621E+22	5,788723E+22	5,788626E+22	1,508339E+23	1,157735E+23	2,666074E+23
41	7,541647E+22	7,541759E+22	5,788819E+22	5,788769E+22	1,508341E+23	1,157759E+23	2,666099E+23
42	7,541959E+22	7,541795E+22	5,788685E+22	5,788795E+22	1,508375E+23	1,157748E+23	2,666123E+23
43	7,541638E+22	7,541721E+22	5,788741E+22	5,788685E+22	1,508336E+23	1,157743E+23	2,666078E+23
44	7,541741E+22	7,541883E+22	5,788705E+22	5,788776E+22	1,508362E+23	1,157748E+23	2,666111E+23
45	7,541932E+22	7,541743E+22	5,788638E+22	5,788618E+22	1,508368E+23	1,157726E+23	2,666093E+23
46	7,541580E+22	7,541741E+22	5,788743E+22	5,788542E+22	1,508332E+23	1,157728E+23	2,666061E+23
47	7,541839E+22	7,541898E+22	5,788576E+22	5,788626E+22	1,508374E+23	1,157720E+23	2,666094E+23
48	7,541793E+22	7,541685E+22	5,788545E+22	5,788482E+22	1,508348E+23	1,157703E+23	2,666050E+23
49	7,541524E+22	7,541769E+22	5,788584E+22	5,788548E+22	1,508329E+23	1,157713E+23	2,666042E+23
50	7,541884E+22	7,541833E+22	5,788431E+22	5,788553E+22	1,508372E+23	1,157698E+23	2,666070E+23
51	7,541692E+22	7,541640E+22	5,788489E+22	5,788395E+22	1,508333E+23	1,157688E+23	2,666022E+23
52	7,541721E+22	7,541767E+22	5,788513E+22	5,788503E+22	1,508349E+23	1,157702E+23	2,666050E+23
53	7,541995E+22	7,541752E+22	5,788453E+22	5,788484E+22	1,508375E+23	1,157694E+23	2,666068E+23
54	7,541578E+22	7,541728E+22	5,788614E+22	5,788511E+22	1,508331E+23	1,157713E+23	2,666043E+23
55	7,541719E+22	7,541941E+22	5,788590E+22	5,788695E+22	1,508366E+23	1,157728E+23	2,666095E+23
56	7,541813E+22	7,541725E+22	5,788668E+22	5,788644E+22	1,508354E+23	1,157731E+23	2,666085E+23
57	7,541507E+22	7,541681E+22	5,788857E+22	5,788736E+22	1,508319E+23	1,157759E+23	2,666078E+23
58	7,541879E+22	7,541808E+22	5,788788E+22	5,788851E+22	1,508369E+23	1,157764E+23	2,666133E+23
59	7,541753E+22	7,541614E+22	5,788858E+22	5,788780E+22	1,508337E+23	1,157764E+23	2,666101E+23
60	7,541609E+22	7,541756E+22	5,788889E+22	5,788922E+22	1,508337E+23	1,157781E+23	2,666118E+23
61	7,541938E+22	7,541827E+22	5,788785E+22	5,788917E+22	1,508377E+23	1,157770E+23	2,666147E+23
62	7,541590E+22	7,541680E+22	5,788908E+22	5,788800E+22	1,508327E+23	1,157771E+23	2,666098E+23
63	7,541690E+22	7,541870E+22	5,788848E+22	5,788837E+22	1,508356E+23	1,157768E+23	2,666125E+23
64	7,541922E+22	7,541716E+22	5,788785E+22	5,788710E+22	1,508364E+23	1,157750E+23	2,666113E+23
65	7,541526E+22	7,541638E+22	5,788851E+22	5,788707E+22	1,508316E+23	1,157756E+23	2,666072E+23
66	7,541778E+22	7,541862E+22	5,788674E+22	5,788772E+22	1,508364E+23	1,157745E+23	2,666109E+23
67	7,541725E+22	7,541661E+22	5,788650E+22	5,788620E+22	1,508339E+23	1,157727E+23	2,666066E+23
68	7,541525E+22	7,541685E+22	5,788656E+22	5,788644E+22	1,508321E+23	1,157730E+23	2,666051E+23
69	7,541939E+22	7,541786E+22	5,788531E+22	5,788623E+22	1,508373E+23	1,157715E+23	2,666088E+23
70	7,541692E+22	7,541600E+22	5,788641E+22	5,788514E+22	1,508329E+23	1,157716E+23	2,666045E+23
71	7,541651E+22	7,541826E+22	5,788632E+22	5,788617E+22	1,508348E+23	1,157725E+23	2,666073E+23
72	7,541913E+22	7,541816E+22	5,788607E+22	5,788644E+22	1,508373E+23	1,157725E+23	2,666098E+23
73	7,541487E+22	7,541664E+22	5,788790E+22	5,788710E+22	1,508315E+23	1,157750E+23	2,666065E+23
74	7,541678E+22	7,541865E+22	5,788789E+22	5,788838E+22	1,508354E+23	1,157763E+23	2,666117E+23
75	7,541791E+22	7,541651E+22	5,788867E+22	5,788797E+22	1,508344E+23	1,157766E+23	2,666111E+23
76	7,541536E+22	7,541577E+22	5,788971E+22	5,788896E+22	1,508311E+23	1,157787E+23	2,666098E+23
77	7,541898E+22	7,541784E+22	5,788882E+22	5,789012E+22	1,508368E+23	1,157789E+23	2,666158E+23
78	7,541700E+22	7,541620E+22	5,788979E+22	5,788963E+22	1,508332E+23	1,157794E+23	2,666126E+23
79	7,541543E+22	7,541793E+22	5,788986E+22	5,789013E+22	1,508334E+23	1,157800E+23	2,666133E+23
80	7,541916E+22	7,541824E+22	5,788935E+22	5,788987E+22	1,508374E+23	1,157792E+23	2,666166E+23
81	7,541573E+22	7,541577E+22	5,789063E+22	5,788901E+22	1,508315E+23	1,157796E+23	2,666112E+23
82	7,541666E+22	7,541804E+22	5,788997E+22	5,788926E+22	1,508347E+23	1,157792E+23	2,666139E+23
83	7,541839E+22	7,541710E+22	5,788914E+22	5,788855E+22	1,508355E+23	1,157777E+23	2,666132E+23
84	7,541466E+22	7,541592E+22	5,788902E+22	5,788863E+22	1,508306E+23	1,157777E+23	2,666082E+23
85	7,541759E+22	7,541831E+22	5,788752E+22	5,788893E+22	1,508359E+23	1,157764E+23	2,666123E+23
86	7,541708E+22	7,541609E+22	5,788780E+22	5,788740E+22	1,508332E+23	1,157752E+23	2,666084E+23
87	7,541518E+22	7,541678E+22	5,788762E+22	5,788704E+22	1,508320E+23	1,157747E+23	2,666066E+23

1	14	15	16	17	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							
88	7,541953E+22	7,541798E+22	5,788672E+22	5,788724E+22	1,508375E+23	1,157740E+23	2,666115E+23
89	7,541638E+22	7,541561E+22	5,788780E+22	5,788693E+22	1,508320E+23	1,157747E+23	2,666067E+23
90	7,541563E+22	7,541824E+22	5,788790E+22	5,788777E+22	1,508339E+23	1,157757E+23	2,666095E+23
91	7,541822E+22	7,541794E+22	5,788791E+22	5,788810E+22	1,508362E+23	1,157760E+23	2,666122E+23
92	7,541474E+22	7,541540E+22	5,788927E+22	5,788857E+22	1,508301E+23	1,157778E+23	2,666080E+23
93	7,541727E+22	7,541771E+22	5,788932E+22	5,788965E+22	1,508350E+23	1,157790E+23	2,666140E+23
94	7,541795E+22	7,541584E+22	5,789012E+22	5,788965E+22	1,508338E+23	1,157798E+23	2,666136E+23
95	7,541485E+22	7,541620E+22	5,789059E+22	5,789029E+22	1,508311E+23	1,157809E+23	2,666119E+23
96	7,541859E+22	7,541848E+22	5,789002E+22	5,789152E+22	1,508371E+23	1,157815E+23	2,666186E+23
97	7,541636E+22	7,541579E+22	5,789132E+22	5,789107E+22	1,508322E+23	1,157824E+23	2,666145E+23
98	7,541505E+22	7,541759E+22	5,789172E+22	5,789094E+22	1,508326E+23	1,157827E+23	2,666153E+23
99	7,541876E+22	7,541781E+22	5,789124E+22	5,789090E+22	1,508366E+23	1,157821E+23	2,666187E+23
100	7,541553E+22	7,541481E+22	5,789169E+22	5,789046E+22	1,508303E+23	1,157821E+23	2,666125E+23
101	7,541629E+22	7,541769E+22	5,789077E+22	5,789084E+22	1,508340E+23	1,157816E+23	2,666156E+23
102	7,541752E+22	7,541680E+22	5,789006E+22	5,789041E+22	1,508343E+23	1,157805E+23	2,666148E+23
103	7,541413E+22	7,541588E+22	5,788962E+22	5,788954E+22	1,508300E+23	1,157792E+23	2,666092E+23
104	7,541791E+22	7,541801E+22	5,788860E+22	5,788958E+22	1,508359E+23	1,157782E+23	2,666141E+23
105	7,541731E+22	7,541525E+22	5,788908E+22	5,788831E+22	1,508326E+23	1,157774E+23	2,666100E+23
106	7,541518E+22	7,541668E+22	5,788906E+22	5,788782E+22	1,508319E+23	1,157769E+23	2,666087E+23
107	7,541867E+22	7,541841E+22	5,788834E+22	5,788862E+22	1,508371E+23	1,157770E+23	2,666140E+23
108	7,541565E+22	7,541535E+22	5,788902E+22	5,788870E+22	1,508310E+23	1,157777E+23	2,666087E+23
109	7,541515E+22	7,541769E+22	5,788947E+22	5,788930E+22	1,508328E+23	1,157788E+23	2,666116E+23
110	7,541772E+22	7,541711E+22	5,788978E+22	5,788987E+22	1,508348E+23	1,157797E+23	2,666145E+23
111	7,541467E+22	7,541486E+22	5,789048E+22	5,788976E+22	1,508295E+23	1,157802E+23	2,666098E+23
112	7,541747E+22	7,541740E+22	5,789059E+22	5,789119E+22	1,508349E+23	1,157818E+23	2,666166E+23
113	7,541752E+22	7,541557E+22	5,789127E+22	5,789163E+22	1,508331E+23	1,157829E+23	2,666160E+23
114	7,541432E+22	7,541639E+22	5,789192E+22	5,789164E+22	1,508307E+23	1,157836E+23	2,666143E+23
115	7,541791E+22	7,541853E+22	5,789185E+22	5,789265E+22	1,508364E+23	1,157845E+23	2,666209E+23
116	7,541629E+22	7,541493E+22	5,789273E+22	5,789211E+22	1,508312E+23	1,157848E+23	2,666161E+23
117	7,541512E+22	7,541684E+22	5,789321E+22	5,789189E+22	1,508320E+23	1,157851E+23	2,666171E+23
118	7,541813E+22	7,541736E+22	5,789263E+22	5,789254E+22	1,508355E+23	1,157852E+23	2,666207E+23
119	7,541466E+22	7,541496E+22	5,789233E+22	5,789179E+22	1,508296E+23	1,157841E+23	2,666137E+23
120	7,541590E+22	7,541773E+22	5,789165E+22	5,789225E+22	1,508336E+23	1,157839E+23	2,666175E+23
121	7,541717E+22	7,541608E+22	5,789118E+22	5,789172E+22	1,508333E+23	1,157829E+23	2,666161E+23
122	7,541426E+22	7,541547E+22	5,789096E+22	5,789010E+22	1,508297E+23	1,157811E+23	2,666108E+23
123	7,541798E+22	7,541778E+22	5,789021E+22	5,789031E+22	1,508358E+23	1,157805E+23	2,666163E+23
124	7,541727E+22	7,541472E+22	5,789011E+22	5,788958E+22	1,508320E+23	1,157797E+23	2,666117E+23
125	7,541471E+22	7,541672E+22	5,789024E+22	5,788932E+22	1,508314E+23	1,157796E+23	2,666110E+23
126	7,541750E+22	7,541825E+22	5,788976E+22	5,789052E+22	1,508358E+23	1,157803E+23	2,666160E+23
127	7,541480E+22	7,541502E+22	5,789021E+22	5,788995E+22	1,508298E+23	1,157802E+23	2,666100E+23
128	7,541527E+22	7,541700E+22	5,789096E+22	5,789058E+22	1,508323E+23	1,157815E+23	2,666138E+23
129	7,541770E+22	7,541596E+22	5,789126E+22	5,789147E+22	1,508337E+23	1,157827E+23	2,666164E+23
130	7,541464E+22	7,541472E+22	5,789183E+22	5,789108E+22	1,508294E+23	1,157829E+23	2,666123E+23
131	7,541691E+22	7,541782E+22	5,789207E+22	5,789274E+22	1,508347E+23	1,157848E+23	2,666195E+23
132	7,541707E+22	7,541544E+22	5,789247E+22	5,789321E+22	1,508325E+23	1,157857E+23	2,666182E+23
133	7,541409E+22	7,541618E+22	5,789364E+22	5,789279E+22	1,508303E+23	1,157864E+23	2,666167E+23
134	7,541732E+22	7,541803E+22	5,789386E+22	5,789403E+22	1,508353E+23	1,157879E+23	2,666232E+23
135	7,541590E+22	7,541453E+22	5,789415E+22	5,789320E+22	1,508304E+23	1,157873E+23	2,666178E+23
136	7,541494E+22	7,541647E+22	5,789443E+22	5,789351E+22	1,508314E+23	1,157879E+23	2,666194E+23

1	14	15	16	17	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							
137	7,541729E+22	7,541683E+22	5,789360E+22	5,789454E+22	1,508341E+23	1,157881E+23	2,666223E+23
138	7,541424E+22	7,541477E+22	5,789321E+22	5,789300E+22	1,508290E+23	1,157862E+23	2,666152E+23
139	7,541571E+22	7,541736E+22	5,789296E+22	5,789305E+22	1,508331E+23	1,157860E+23	2,666191E+23
140	7,541763E+22	7,541523E+22	5,789211E+22	5,789240E+22	1,508329E+23	1,157845E+23	2,666174E+23
141	7,541472E+22	7,541499E+22	5,789214E+22	5,789066E+22	1,508297E+23	1,157828E+23	2,666125E+23
142	7,541724E+22	7,541787E+22	5,789157E+22	5,789164E+22	1,508351E+23	1,157832E+23	2,666183E+23
143	7,541622E+22	7,541522E+22	5,789099E+22	5,789082E+22	1,508314E+23	1,157818E+23	2,666132E+23
144	7,541394E+22	7,541666E+22	5,789155E+22	5,789092E+22	1,508306E+23	1,157825E+23	2,666131E+23
145	7,541664E+22	7,541740E+22	5,789140E+22	5,789227E+22	1,508340E+23	1,157837E+23	2,666177E+23
146	7,541475E+22	7,541427E+22	5,789182E+22	5,789112E+22	1,508290E+23	1,157829E+23	2,666119E+23
147	7,541535E+22	7,541633E+22	5,789270E+22	5,789193E+22	1,508317E+23	1,157846E+23	2,666163E+23
148	7,541780E+22	7,541533E+22	5,789226E+22	5,789323E+22	1,508331E+23	1,157855E+23	2,666186E+23
149	7,541446E+22	7,541476E+22	5,789301E+22	5,789266E+22	1,508292E+23	1,157857E+23	2,666149E+23
150	7,541606E+22	7,541791E+22	5,789366E+22	5,789443E+22	1,508340E+23	1,157881E+23	2,666220E+23
151	7,541655E+22	7,541535E+22	5,789391E+22	5,789414E+22	1,508319E+23	1,157881E+23	2,666200E+23
152	7,541421E+22	7,541568E+22	5,789536E+22	5,789393E+22	1,508299E+23	1,157893E+23	2,666192E+23
153	7,541685E+22	7,541715E+22	5,789552E+22	5,789560E+22	1,508340E+23	1,157911E+23	2,666251E+23
154	7,541540E+22	7,541439E+22	5,789546E+22	5,789462E+22	1,508298E+23	1,157901E+23	2,666199E+23
155	7,541425E+22	7,541648E+22	5,789574E+22	5,789506E+22	1,508307E+23	1,157908E+23	2,666215E+23
156	7,541697E+22	7,541615E+22	5,789441E+22	5,789598E+22	1,508331E+23	1,157904E+23	2,666235E+23
157	7,541444E+22	7,541430E+22	5,789438E+22	5,789379E+22	1,508287E+23	1,157882E+23	2,666169E+23
158	7,541562E+22	7,541693E+22	5,789426E+22	5,789393E+22	1,508326E+23	1,157882E+23	2,666207E+23
159	7,541743E+22	7,541513E+22	5,789302E+22	5,789303E+22	1,508326E+23	1,157860E+23	2,666186E+23
160	7,541448E+22	7,541516E+22	5,789317E+22	5,789203E+22	1,508296E+23	1,157852E+23	2,666148E+23
161	7,541593E+22	7,541767E+22	5,789276E+22	5,789346E+22	1,508336E+23	1,157862E+23	2,666198E+23
162	7,541537E+22	7,541503E+22	5,789236E+22	5,789215E+22	1,508304E+23	1,157845E+23	2,666149E+23
163	7,541361E+22	7,541589E+22	5,789330E+22	5,789208E+22	1,508295E+23	1,157854E+23	2,666149E+23
164	7,541693E+22	7,541604E+22	5,789264E+22	5,789354E+22	1,508330E+23	1,157862E+23	2,666191E+23
165	7,541527E+22	7,541357E+22	5,789311E+22	5,789227E+22	1,508288E+23	1,157854E+23	2,666142E+23
166	7,541492E+22	7,541639E+22	5,789398E+22	5,789365E+22	1,508313E+23	1,157876E+23	2,666189E+23
167	7,541713E+22	7,541588E+22	5,789328E+22	5,789458E+22	1,508330E+23	1,157879E+23	2,666209E+23
168	7,541417E+22	7,541498E+22	5,789458E+22	5,789418E+22	1,508292E+23	1,157888E+23	2,666179E+23
169	7,541524E+22	7,541742E+22	5,789572E+22	5,789597E+22	1,508327E+23	1,157917E+23	2,666243E+23
170	7,541635E+22	7,541492E+22	5,789589E+22	5,789531E+22	1,508313E+23	1,157912E+23	2,666225E+23
171	7,541393E+22	7,541504E+22	5,789733E+22	5,789543E+22	1,508290E+23	1,157928E+23	2,666217E+23
172	7,541646E+22	7,541642E+22	5,789652E+22	5,789757E+22	1,508329E+23	1,157941E+23	2,666270E+23
173	7,541512E+22	7,541400E+22	5,789632E+22	5,789622E+22	1,508291E+23	1,157925E+23	2,666217E+23
174	7,541360E+22	7,541612E+22	5,789676E+22	5,789652E+22	1,508297E+23	1,157933E+23	2,666230E+23
175	7,541692E+22	7,541583E+22	5,789516E+22	5,789647E+22	1,508328E+23	1,157916E+23	2,666244E+23
176	7,541496E+22	7,541392E+22	5,789538E+22	5,789439E+22	1,508289E+23	1,157898E+23	2,666187E+23
177	7,541516E+22	7,541660E+22	5,789552E+22	5,789495E+22	1,508318E+23	1,157905E+23	2,666222E+23
178	7,541679E+22	7,541551E+22	5,789415E+22	5,789402E+22	1,508323E+23	1,157882E+23	2,666205E+23
179	7,541355E+22	7,541526E+22	5,789470E+22	5,789339E+22	1,508288E+23	1,157881E+23	2,666169E+23
180	7,541523E+22	7,541689E+22	5,789398E+22	5,789499E+22	1,508321E+23	1,157890E+23	2,666211E+23
181	7,541536E+22	7,541410E+22	5,789391E+22	5,789331E+22	1,508295E+23	1,157872E+23	2,666167E+23
182	7,541352E+22	7,541504E+22	5,789482E+22	5,789353E+22	1,508286E+23	1,157884E+23	2,666169E+23
183	7,541700E+22	7,541558E+22	5,789360E+22	5,789474E+22	1,508326E+23	1,157883E+23	2,666209E+23
184	7,541536E+22	7,541377E+22	5,789406E+22	5,789399E+22	1,508291E+23	1,157881E+23	2,666172E+23
185	7,541401E+22	7,541650E+22	5,789529E+22	5,789550E+22	1,508305E+23	1,157908E+23	2,666213E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,541654E+22	7,541608E+22	5,789495E+22	5,789580E+22	1,508326E+23	1,157907E+23	2,666234E+23
187	7,541396E+22	7,541459E+22	5,789682E+22	5,789535E+22	1,508286E+23	1,157922E+23	2,666207E+23
188	7,541512E+22	7,541627E+22	5,789739E+22	5,789739E+22	1,508314E+23	1,157948E+23	2,666262E+23
189	7,541629E+22	7,541425E+22	5,789750E+22	5,789680E+22	1,508305E+23	1,157943E+23	2,666248E+23
190	7,541316E+22	7,541482E+22	5,789851E+22	5,789738E+22	1,508280E+23	1,157959E+23	2,666239E+23
191	7,541573E+22	7,541629E+22	5,789721E+22	5,789893E+22	1,508320E+23	1,157961E+23	2,666282E+23
192	7,541514E+22	7,541391E+22	5,789725E+22	5,789746E+22	1,508290E+23	1,157947E+23	2,666238E+23
193	7,541330E+22	7,541559E+22	5,789806E+22	5,789751E+22	1,508289E+23	1,157956E+23	2,666244E+23
194	7,541704E+22	7,541567E+22	5,789654E+22	5,789697E+22	1,508327E+23	1,157935E+23	2,666262E+23
195	7,541485E+22	7,541380E+22	5,789696E+22	5,789531E+22	1,508286E+23	1,157923E+23	2,666209E+23
196	7,541442E+22	7,541625E+22	5,789647E+22	5,789644E+22	1,508307E+23	1,157929E+23	2,666236E+23
197	7,541612E+22	7,541525E+22	5,789533E+22	5,789542E+22	1,508314E+23	1,157907E+23	2,666221E+23
198	7,541274E+22	7,541463E+22	5,789604E+22	5,789490E+22	1,508274E+23	1,157909E+23	2,666183E+23
199	7,541511E+22	7,541602E+22	5,789502E+22	5,789586E+22	1,508311E+23	1,157909E+23	2,666220E+23
200	7,541597E+22	7,541348E+22	5,789493E+22	5,789451E+22	1,508294E+23	1,157894E+23	2,666189E+23
201	7,541321E+22	7,541473E+22	5,789599E+22	5,789508E+22	1,508279E+23	1,157911E+23	2,666190E+23
202	7,541662E+22	7,541614E+22	5,789476E+22	5,789606E+22	1,508328E+23	1,157908E+23	2,666236E+23
203	7,541478E+22	7,541412E+22	5,789583E+22	5,789543E+22	1,508289E+23	1,157913E+23	2,666202E+23
204	7,541342E+22	7,541608E+22	5,789698E+22	5,789701E+22	1,508295E+23	1,157940E+23	2,666235E+23
205	7,541649E+22	7,541539E+22	5,789697E+22	5,789700E+22	1,508319E+23	1,157940E+23	2,666258E+23
206	7,541351E+22	7,541377E+22	5,789878E+22	5,789704E+22	1,508273E+23	1,157958E+23	2,666231E+23
207	7,541469E+22	7,541568E+22	5,789856E+22	5,789895E+22	1,508304E+23	1,157975E+23	2,666279E+23
208	7,541603E+22	7,541408E+22	5,789833E+22	5,789881E+22	1,508301E+23	1,157971E+23	2,666272E+23
209	7,541229E+22	7,541451E+22	5,789952E+22	5,789922E+22	1,508268E+23	1,157987E+23	2,666255E+23
210	7,541560E+22	7,541610E+22	5,789836E+22	5,789975E+22	1,508317E+23	1,157981E+23	2,666298E+23
211	7,541543E+22	7,541353E+22	5,789884E+22	5,789799E+22	1,508290E+23	1,157968E+23	2,666258E+23
212	7,541346E+22	7,541490E+22	5,789922E+22	5,789825E+22	1,508284E+23	1,157975E+23	2,666258E+23
213	7,541692E+22	7,541551E+22	5,789785E+22	5,789786E+22	1,508324E+23	1,157957E+23	2,666281E+23
214	7,541377E+22	7,541397E+22	5,789823E+22	5,789691E+22	1,508277E+23	1,157951E+23	2,666229E+23
215	7,541336E+22	7,541607E+22	5,789741E+22	5,789772E+22	1,508294E+23	1,157951E+23	2,666245E+23
216	7,541581E+22	7,541487E+22	5,789644E+22	5,789688E+22	1,508307E+23	1,157933E+23	2,666240E+23
217	7,541236E+22	7,541378E+22	5,789737E+22	5,789631E+22	1,508261E+23	1,157937E+23	2,666198E+23
218	7,541531E+22	7,541552E+22	5,789628E+22	5,789687E+22	1,508308E+23	1,157931E+23	2,666240E+23
219	7,541612E+22	7,541344E+22	5,789632E+22	5,789586E+22	1,508296E+23	1,157922E+23	2,666217E+23
220	7,541278E+22	7,541456E+22	5,789688E+22	5,789675E+22	1,508273E+23	1,157936E+23	2,666210E+23
221	7,541617E+22	7,541610E+22	5,789624E+22	5,789742E+22	1,508323E+23	1,157937E+23	2,666259E+23
222	7,541415E+22	7,541381E+22	5,789765E+22	5,789686E+22	1,508280E+23	1,157945E+23	2,666225E+23
223	7,541309E+22	7,541524E+22	5,789857E+22	5,789799E+22	1,508283E+23	1,157966E+23	2,666249E+23
224	7,541659E+22	7,541485E+22	5,789844E+22	5,789855E+22	1,508314E+23	1,157970E+23	2,666284E+23
225	7,541279E+22	7,541330E+22	5,790017E+22	5,789899E+22	1,508261E+23	1,157992E+23	2,666253E+23
226	7,541408E+22	7,541576E+22	5,789975E+22	5,790052E+22	1,508298E+23	1,158003E+23	2,666301E+23
227	7,541567E+22	7,541410E+22	5,789983E+22	5,790024E+22	1,508298E+23	1,158001E+23	2,666298E+23
228	7,541210E+22	7,541390E+22	5,790073E+22	5,790043E+22	1,508260E+23	1,158012E+23	2,666272E+23
229	7,541592E+22	7,541554E+22	5,789997E+22	5,790049E+22	1,508315E+23	1,158005E+23	2,666319E+23
230	7,541523E+22	7,541320E+22	5,790041E+22	5,789911E+22	1,508284E+23	1,157995E+23	2,666279E+23
231	7,541291E+22	7,541472E+22	5,790018E+22	5,789936E+22	1,508276E+23	1,157995E+23	2,666272E+23
232	7,541627E+22	7,541572E+22	5,789860E+22	5,789954E+22	1,508320E+23	1,157981E+23	2,666301E+23
233	7,541254E+22	7,541362E+22	5,789935E+22	5,789865E+22	1,508262E+23	1,157980E+23	2,666242E+23
234	7,541301E+22	7,541552E+22	5,789864E+22	5,789868E+22	1,508285E+23	1,157973E+23	2,666258E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
235	7,541607E+22	7,541407E+22	5,789793E+22	5,789776E+22	1,508301E+23	1,157957E+23	2,666258E+23
236	7,541259E+22	7,541293E+22	5,789829E+22	5,789746E+22	1,508255E+23	1,157957E+23	2,666213E+23
237	7,541550E+22	7,541529E+22	5,789734E+22	5,789795E+22	1,508308E+23	1,157953E+23	2,666261E+23
238	7,541533E+22	7,541374E+22	5,789755E+22	5,789738E+22	1,508291E+23	1,157949E+23	2,666240E+23
239	7,541205E+22	7,541457E+22	5,789813E+22	5,789788E+22	1,508266E+23	1,157960E+23	2,666226E+23
240	7,541587E+22	7,541592E+22	5,789782E+22	5,789879E+22	1,508318E+23	1,157966E+23	2,666284E+23
241	7,541351E+22	7,541309E+22	5,789967E+22	5,789849E+22	1,508266E+23	1,157982E+23	2,666248E+23
242	7,541287E+22	7,541466E+22	5,790034E+22	5,789943E+22	1,508275E+23	1,157998E+23	2,666273E+23
243	7,541623E+22	7,541458E+22	5,790009E+22	5,790043E+22	1,508308E+23	1,158005E+23	2,666313E+23
244	7,541219E+22	7,541288E+22	5,790109E+22	5,790106E+22	1,508251E+23	1,158021E+23	2,666272E+23
245	7,541395E+22	7,541528E+22	5,790107E+22	5,790193E+22	1,508292E+23	1,158030E+23	2,666322E+23
246	7,541546E+22	7,541375E+22	5,790136E+22	5,790141E+22	1,508292E+23	1,158028E+23	2,666320E+23
247	7,541227E+22	7,541333E+22	5,790193E+22	5,790105E+22	1,508256E+23	1,158030E+23	2,666286E+23
248	7,541604E+22	7,541550E+22	5,790111E+22	5,790158E+22	1,508315E+23	1,158027E+23	2,666342E+23
249	7,541427E+22	7,541331E+22	5,790169E+22	5,790068E+22	1,508276E+23	1,158024E+23	2,666299E+23
250	7,541189E+22	7,541492E+22	5,790137E+22	5,790065E+22	1,508268E+23	1,158020E+23	2,666288E+23
251	7,541554E+22	7,541561E+22	5,790012E+22	5,790087E+22	1,508312E+23	1,158010E+23	2,666321E+23
252	7,541225E+22	7,541257E+22	5,790043E+22	5,789989E+22	1,508248E+23	1,158003E+23	2,666251E+23
253	7,541341E+22	7,541437E+22	5,790002E+22	5,789955E+22	1,508278E+23	1,157996E+23	2,666273E+23
254	7,541611E+22	7,541356E+22	5,789914E+22	5,789898E+22	1,508297E+23	1,157981E+23	2,666278E+23
255	7,541237E+22	7,541272E+22	5,789893E+22	5,789859E+22	1,508251E+23	1,157975E+23	2,666226E+23
256	7,541507E+22	7,541571E+22	5,789812E+22	5,789947E+22	1,508308E+23	1,157976E+23	2,666284E+23
257	7,541436E+22	7,541370E+22	5,789903E+22	5,789889E+22	1,508281E+23	1,157979E+23	2,666260E+23
258	7,541163E+22	7,541421E+22	5,789996E+22	5,789882E+22	1,508258E+23	1,157988E+23	2,666246E+23
259	7,541572E+22	7,541540E+22	5,789990E+22	5,790000E+22	1,508311E+23	1,157999E+23	2,666310E+23
260	7,541318E+22	7,541224E+22	5,790113E+22	5,790028E+22	1,508254E+23	1,158014E+23	2,666268E+23
261	7,541262E+22	7,541415E+22	5,790183E+22	5,790125E+22	1,508268E+23	1,158031E+23	2,666298E+23
262	7,541543E+22	7,541452E+22	5,790149E+22	5,790241E+22	1,508300E+23	1,158039E+23	2,666338E+23
263	7,541186E+22	7,541254E+22	5,790219E+22	5,790238E+22	1,508244E+23	1,158046E+23	2,666290E+23
264	7,541416E+22	7,541512E+22	5,790230E+22	5,790314E+22	1,508293E+23	1,158054E+23	2,666347E+23
265	7,541519E+22	7,541340E+22	5,790304E+22	5,790266E+22	1,508286E+23	1,158057E+23	2,666343E+23
266	7,541212E+22	7,541326E+22	5,790347E+22	5,790205E+22	1,508254E+23	1,158055E+23	2,666309E+23
267	7,541538E+22	7,541562E+22	5,790257E+22	5,790300E+22	1,508310E+23	1,158056E+23	2,666366E+23
268	7,541324E+22	7,541291E+22	5,790264E+22	5,790242E+22	1,508262E+23	1,158051E+23	2,666312E+23
269	7,541158E+22	7,541400E+22	5,790263E+22	5,790180E+22	1,508256E+23	1,158044E+23	2,666300E+23
270	7,541521E+22	7,541466E+22	5,790143E+22	5,790187E+22	1,508299E+23	1,158033E+23	2,666332E+23
271	7,541259E+22	7,541162E+22	5,790117E+22	5,790053E+22	1,508242E+23	1,158017E+23	2,666259E+23
272	7,541379E+22	7,541419E+22	5,790061E+22	5,790061E+22	1,508280E+23	1,158012E+23	2,666292E+23
273	7,541537E+22	7,541386E+22	5,790015E+22	5,790041E+22	1,508292E+23	1,158006E+23	2,666298E+23
274	7,541166E+22	7,541323E+22	5,790017E+22	5,789967E+22	1,508249E+23	1,157998E+23	2,666247E+23
275	7,541434E+22	7,541590E+22	5,790000E+22	5,790063E+22	1,508302E+23	1,158006E+23	2,666309E+23
276	7,541380E+22	7,541301E+22	5,790078E+22	5,790037E+22	1,508268E+23	1,158011E+23	2,666280E+23
277	7,541169E+22	7,541308E+22	5,790199E+22	5,790024E+22	1,508248E+23	1,158022E+23	2,666270E+23
278	7,541522E+22	7,541479E+22	5,790167E+22	5,790193E+22	1,508300E+23	1,158036E+23	2,666336E+23
279	7,541278E+22	7,541177E+22	5,790203E+22	5,790219E+22	1,508246E+23	1,158042E+23	2,666288E+23
280	7,541235E+22	7,541412E+22	5,790265E+22	5,790323E+22	1,508265E+23	1,158059E+23	2,666323E+23
281	7,541493E+22	7,541425E+22	5,790293E+22	5,790400E+22	1,508292E+23	1,158069E+23	2,666361E+23
282	7,541201E+22	7,541221E+22	5,790379E+22	5,790308E+22	1,508242E+23	1,158069E+23	2,666311E+23
283	7,541433E+22	7,541501E+22	5,790414E+22	5,790395E+22	1,508293E+23	1,158081E+23	2,666374E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,541483E+22	7,541306E+22	5,790433E+22	5,790397E+22	1,508279E+23	1,158083E+23	2,666362E+23
285	7,541154E+22	7,541296E+22	5,790491E+22	5,790344E+22	1,508245E+23	1,158083E+23	2,666329E+23
286	7,541416E+22	7,541554E+22	5,790398E+22	5,790455E+22	1,508297E+23	1,158085E+23	2,666382E+23
287	7,541269E+22	7,541212E+22	5,790359E+22	5,790357E+22	1,508248E+23	1,158072E+23	2,666320E+23
288	7,541174E+22	7,541329E+22	5,790354E+22	5,790293E+22	1,508250E+23	1,158065E+23	2,666315E+23
289	7,541514E+22	7,541394E+22	5,790262E+22	5,790305E+22	1,508291E+23	1,158057E+23	2,666348E+23
290	7,541265E+22	7,541154E+22	5,790212E+22	5,790140E+22	1,508242E+23	1,158035E+23	2,666277E+23
291	7,541337E+22	7,541473E+22	5,790164E+22	5,790184E+22	1,508281E+23	1,158035E+23	2,666316E+23
292	7,541450E+22	7,541387E+22	5,790115E+22	5,790190E+22	1,508284E+23	1,158030E+23	2,666314E+23
293	7,541139E+22	7,541261E+22	5,790194E+22	5,790079E+22	1,508240E+23	1,158027E+23	2,666267E+23
294	7,541378E+22	7,541521E+22	5,790198E+22	5,790182E+22	1,508290E+23	1,158038E+23	2,666328E+23
295	7,541375E+22	7,541202E+22	5,790217E+22	5,790168E+22	1,508258E+23	1,158038E+23	2,666296E+23
296	7,541172E+22	7,541266E+22	5,790305E+22	5,790207E+22	1,508244E+23	1,158051E+23	2,666295E+23
297	7,541439E+22	7,541464E+22	5,790297E+22	5,790402E+22	1,508290E+23	1,158070E+23	2,666360E+23
298	7,541240E+22	7,541192E+22	5,790332E+22	5,790362E+22	1,508243E+23	1,158069E+23	2,666313E+23
299	7,541225E+22	7,541413E+22	5,790429E+22	5,790442E+22	1,508264E+23	1,158087E+23	2,666351E+23
300	7,541479E+22	7,541369E+22	5,790457E+22	5,790523E+22	1,508285E+23	1,158098E+23	2,666383E+23
301	7,541234E+22	7,541150E+22	5,790572E+22	5,790413E+22	1,508238E+23	1,158099E+23	2,666337E+23
302	7,541355E+22	7,541480E+22	5,790588E+22	5,790539E+22	1,508284E+23	1,158113E+23	2,666396E+23
303	7,541400E+22	7,541283E+22	5,790525E+22	5,790562E+22	1,508268E+23	1,158109E+23	2,666377E+23
304	7,541095E+22	7,541267E+22	5,790570E+22	5,790513E+22	1,508236E+23	1,158108E+23	2,666345E+23
305	7,541340E+22	7,541481E+22	5,790526E+22	5,790595E+22	1,508282E+23	1,158112E+23	2,666394E+23
306	7,541285E+22	7,541148E+22	5,790468E+22	5,790420E+22	1,508243E+23	1,158089E+23	2,666332E+23
307	7,541206E+22	7,541304E+22	5,790461E+22	5,790372E+22	1,508251E+23	1,158083E+23	2,666334E+23
308	7,541488E+22	7,541380E+22	5,790343E+22	5,790427E+22	1,508287E+23	1,158077E+23	2,666364E+23
309	7,541240E+22	7,541158E+22	5,790331E+22	5,790252E+22	1,508240E+23	1,158058E+23	2,666298E+23
310	7,541234E+22	7,541496E+22	5,790322E+22	5,790300E+22	1,508273E+23	1,158062E+23	2,666335E+23
311	7,541404E+22	7,541338E+22	5,790249E+22	5,790299E+22	1,508274E+23	1,158055E+23	2,666329E+23
312	7,541138E+22	7,541192E+22	5,790342E+22	5,790218E+22	1,508233E+23	1,158056E+23	2,666289E+23
313	7,541334E+22	7,541439E+22	5,790375E+22	5,790356E+22	1,508277E+23	1,158073E+23	2,666350E+23
314	7,541349E+22	7,541164E+22	5,790343E+22	5,790328E+22	1,508251E+23	1,158067E+23	2,666318E+23
315	7,541131E+22	7,541284E+22	5,790416E+22	5,790394E+22	1,508242E+23	1,158081E+23	2,666323E+23
316	7,541388E+22	7,541425E+22	5,790404E+22	5,790576E+22	1,508281E+23	1,158098E+23	2,666379E+23
317	7,541261E+22	7,541119E+22	5,790503E+22	5,790464E+22	1,508238E+23	1,158097E+23	2,666335E+23
318	7,541210E+22	7,541381E+22	5,790622E+22	5,790530E+22	1,508259E+23	1,158115E+23	2,666374E+23
319	7,541479E+22	7,541318E+22	5,790592E+22	5,790632E+22	1,508280E+23	1,158122E+23	2,666402E+23
320	7,541199E+22	7,541152E+22	5,790694E+22	5,790579E+22	1,508235E+23	1,158127E+23	2,666362E+23
321	7,541221E+22	7,541481E+22	5,790733E+22	5,790730E+22	1,508270E+23	1,158146E+23	2,666416E+23
322	7,541313E+22	7,541268E+22	5,790653E+22	5,790696E+22	1,508258E+23	1,158135E+23	2,666393E+23
323	7,541070E+22	7,541234E+22	5,790701E+22	5,790633E+22	1,508230E+23	1,158133E+23	2,666364E+23
324	7,541338E+22	7,541381E+22	5,790641E+22	5,790711E+22	1,508272E+23	1,158135E+23	2,666407E+23
325	7,541344E+22	7,541066E+22	5,790598E+22	5,790511E+22	1,508241E+23	1,158111E+23	2,666352E+23
326	7,541169E+22	7,541311E+22	5,790574E+22	5,790481E+22	1,508248E+23	1,158106E+23	2,666354E+23
327	7,541436E+22	7,541385E+22	5,790406E+22	5,790552E+22	1,508282E+23	1,158096E+23	2,666378E+23
328	7,541205E+22	7,541156E+22	5,790427E+22	5,790381E+22	1,508236E+23	1,158081E+23	2,666317E+23
329	7,541153E+22	7,541436E+22	5,790493E+22	5,790419E+22	1,508259E+23	1,158091E+23	2,666350E+23
330	7,541391E+22	7,541280E+22	5,790406E+22	5,790386E+22	1,508267E+23	1,158079E+23	2,666346E+23
331	7,541142E+22	7,541153E+22	5,790476E+22	5,790354E+22	1,508230E+23	1,158083E+23	2,666312E+23
332	7,541273E+22	7,541387E+22	5,790486E+22	5,790543E+22	1,508266E+23	1,158103E+23	2,666369E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,541326E+22	7,541141E+22	5,790473E+22	5,790493E+22	1,508247E+23	1,158097E+23	2,666343E+23
334	7,541062E+22	7,541284E+22	5,790573E+22	5,790533E+22	1,508235E+23	1,158111E+23	2,666345E+23
335	7,541380E+22	7,541378E+22	5,790542E+22	5,790696E+22	1,508276E+23	1,158124E+23	2,666400E+23
336	7,541291E+22	7,541082E+22	5,790659E+22	5,790591E+22	1,508237E+23	1,158125E+23	2,666362E+23
337	7,541153E+22	7,541344E+22	5,790816E+22	5,790687E+22	1,508250E+23	1,158150E+23	2,666400E+23
338	7,541410E+22	7,541328E+22	5,790734E+22	5,790787E+22	1,508274E+23	1,158152E+23	2,666426E+23
339	7,541116E+22	7,541172E+22	5,790815E+22	5,790768E+22	1,508229E+23	1,158158E+23	2,666387E+23
340	7,541133E+22	7,541405E+22	5,790859E+22	5,790904E+22	1,508254E+23	1,158176E+23	2,666430E+23
341	7,541335E+22	7,541157E+22	5,790803E+22	5,790796E+22	1,508249E+23	1,158160E+23	2,666409E+23
342	7,541081E+22	7,541170E+22	5,790839E+22	5,790708E+22	1,508225E+23	1,158155E+23	2,666380E+23
343	7,541374E+22	7,541324E+22	5,790709E+22	5,790801E+22	1,508270E+23	1,158151E+23	2,666421E+23
344	7,541340E+22	7,541092E+22	5,790665E+22	5,790628E+22	1,508243E+23	1,158129E+23	2,666372E+23
345	7,541068E+22	7,541346E+22	5,790698E+22	5,790613E+22	1,508241E+23	1,158131E+23	2,666373E+23
346	7,541358E+22	7,541395E+22	5,790535E+22	5,790636E+22	1,508275E+23	1,158117E+23	2,666392E+23
347	7,541164E+22	7,541141E+22	5,790581E+22	5,790496E+22	1,508231E+23	1,158108E+23	2,666338E+23
348	7,541110E+22	7,541330E+22	5,790646E+22	5,790561E+22	1,508244E+23	1,158121E+23	2,666365E+23
349	7,541394E+22	7,541177E+22	5,790561E+22	5,790532E+22	1,508257E+23	1,158109E+23	2,666366E+23
350	7,541078E+22	7,541142E+22	5,790598E+22	5,790522E+22	1,508222E+23	1,158112E+23	2,666334E+23
351	7,541236E+22	7,541350E+22	5,790552E+22	5,790718E+22	1,508259E+23	1,158127E+23	2,666386E+23
352	7,541325E+22	7,541118E+22	5,790580E+22	5,790637E+22	1,508244E+23	1,158122E+23	2,666366E+23
353	7,541033E+22	7,541240E+22	5,790753E+22	5,790649E+22	1,508227E+23	1,158140E+23	2,666367E+23
354	7,541378E+22	7,541352E+22	5,790712E+22	5,790778E+22	1,508273E+23	1,158149E+23	2,666422E+23
355	7,541273E+22	7,541100E+22	5,790821E+22	5,790738E+22	1,508237E+23	1,158156E+23	2,666393E+23
356	7,541050E+22	7,541319E+22	5,790969E+22	5,790882E+22	1,508237E+23	1,158185E+23	2,666422E+23
357	7,541342E+22	7,541293E+22	5,790901E+22	5,790959E+22	1,508263E+23	1,158186E+23	2,666449E+23
358	7,541040E+22	7,541136E+22	5,790981E+22	5,790909E+22	1,508218E+23	1,158189E+23	2,666407E+23
359	7,541138E+22	7,541300E+22	5,790972E+22	5,791028E+22	1,508244E+23	1,158200E+23	2,666444E+23
360	7,541396E+22	7,541087E+22	5,790910E+22	5,790908E+22	1,508248E+23	1,158182E+23	2,666430E+23
361	7,541063E+22	7,541135E+22	5,790961E+22	5,790831E+22	1,508220E+23	1,158179E+23	2,666399E+23
362	7,541326E+22	7,541365E+22	5,790788E+22	5,790905E+22	1,508269E+23	1,158169E+23	2,666438E+23
363	7,541278E+22	7,541151E+22	5,790745E+22	5,790754E+22	1,508243E+23	1,158150E+23	2,666393E+23
364	7,540970E+22	7,541291E+22	5,790831E+22	5,790733E+22	1,508226E+23	1,158156E+23	2,666383E+23
365	7,541342E+22	7,541309E+22	5,790704E+22	5,790718E+22	1,508265E+23	1,158142E+23	2,666407E+23
366	7,541131E+22	7,541074E+22	5,790741E+22	5,790596E+22	1,508221E+23	1,158134E+23	2,666354E+23
367	7,541100E+22	7,541243E+22	5,790738E+22	5,790713E+22	1,508234E+23	1,158145E+23	2,666379E+23
368	7,541377E+22	7,541161E+22	5,790643E+22	5,790704E+22	1,508254E+23	1,158135E+23	2,666388E+23
369	7,540999E+22	7,541141E+22	5,790725E+22	5,790687E+22	1,508214E+23	1,158141E+23	2,666355E+23
370	7,541203E+22	7,541352E+22	5,790685E+22	5,790820E+22	1,508256E+23	1,158150E+23	2,666406E+23
371	7,541330E+22	7,541127E+22	5,790740E+22	5,790754E+22	1,508246E+23	1,158149E+23	2,666395E+23
372	7,541006E+22	7,541172E+22	5,790951E+22	5,790795E+22	1,508218E+23	1,158175E+23	2,666392E+23
373	7,541358E+22	7,541304E+22	5,790912E+22	5,790931E+22	1,508266E+23	1,158184E+23	2,666451E+23
374	7,541172E+22	7,541112E+22	5,790994E+22	5,790926E+22	1,508228E+23	1,158192E+23	2,666420E+23
375	7,540981E+22	7,541254E+22	5,791078E+22	5,791083E+22	1,508224E+23	1,158216E+23	2,666440E+23
376	7,541325E+22	7,541215E+22	5,791027E+22	5,791113E+22	1,508254E+23	1,158214E+23	2,666468E+23
377	7,541033E+22	7,541057E+22	5,791130E+22	5,791029E+22	1,508209E+23	1,158216E+23	2,666425E+23
378	7,541171E+22	7,541250E+22	5,791071E+22	5,791096E+22	1,508242E+23	1,158217E+23	2,666459E+23
379	7,541397E+22	7,541128E+22	5,790990E+22	5,791020E+22	1,508253E+23	1,158201E+23	2,666454E+23
380	7,540981E+22	7,541150E+22	5,791061E+22	5,790965E+22	1,508213E+23	1,158203E+23	2,666416E+23
381	7,541252E+22	7,541361E+22	5,790929E+22	5,791003E+22	1,508261E+23	1,158193E+23	2,666454E+23

1	14	15	16	17	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							
382	7,541186E+22	7,541147E+22	5,790916E+22	5,790845E+22	1,508233E+23	1,158176E+23	2,666409E+23
383	7,540948E+22	7,541178E+22	5,790957E+22	5,790850E+22	1,508213E+23	1,158181E+23	2,666393E+23
384	7,541352E+22	7,541211E+22	5,790834E+22	5,790849E+22	1,508256E+23	1,158168E+23	2,666425E+23
385	7,541088E+22	7,541018E+22	5,790864E+22	5,790763E+22	1,508211E+23	1,158163E+23	2,666373E+23
386	7,541054E+22	7,541237E+22	5,790806E+22	5,790860E+22	1,508229E+23	1,158167E+23	2,666396E+23
387	7,541346E+22	7,541195E+22	5,790724E+22	5,790859E+22	1,508254E+23	1,158158E+23	2,666412E+23
388	7,540963E+22	7,541085E+22	5,790876E+22	5,790812E+22	1,508205E+23	1,158169E+23	2,666374E+23
389	7,541224E+22	7,541294E+22	5,790881E+22	5,790899E+22	1,508252E+23	1,158178E+23	2,666430E+23
390	7,541307E+22	7,541119E+22	5,790943E+22	5,790861E+22	1,508243E+23	1,158180E+23	2,666423E+23
391	7,540964E+22	7,541124E+22	5,791097E+22	5,790978E+22	1,508209E+23	1,158208E+23	2,666416E+23
392	7,541289E+22	7,541296E+22	5,791057E+22	5,791133E+22	1,508259E+23	1,158219E+23	2,666478E+23
393	7,541066E+22	7,541077E+22	5,791161E+22	5,791125E+22	1,508214E+23	1,158229E+23	2,666443E+23
394	7,540940E+22	7,541201E+22	5,791211E+22	5,791216E+22	1,508214E+23	1,158243E+23	2,666457E+23
395	7,541351E+22	7,541183E+22	5,791140E+22	5,791241E+22	1,508253E+23	1,158238E+23	2,666492E+23
396	7,541032E+22	7,540975E+22	5,791264E+22	5,791153E+22	1,508201E+23	1,158242E+23	2,666442E+23
397	7,541171E+22	7,541237E+22	5,791196E+22	5,791202E+22	1,508241E+23	1,158240E+23	2,666480E+23
398	7,541312E+22	7,541183E+22	5,791109E+22	5,791134E+22	1,508250E+23	1,158224E+23	2,666474E+23
399	7,540916E+22	7,541108E+22	5,791158E+22	5,791097E+22	1,508202E+23	1,158225E+23	2,666428E+23
400	7,541218E+22	7,541292E+22	5,791065E+22	5,791097E+22	1,508251E+23	1,158216E+23	2,666467E+23
401	7,541146E+22	7,541058E+22	5,791076E+22	5,790948E+22	1,508220E+23	1,158202E+23	2,666423E+23
402	7,540944E+22	7,541106E+22	5,791057E+22	5,790947E+22	1,508205E+23	1,158200E+23	2,666405E+23
403	7,541335E+22	7,541219E+22	5,790903E+22	5,791003E+22	1,508255E+23	1,158191E+23	2,666446E+23
404	7,541021E+22	7,541001E+22	5,790964E+22	5,790929E+22	1,508202E+23	1,158189E+23	2,666391E+23
405	7,541027E+22	7,541226E+22	5,790940E+22	5,790973E+22	1,508225E+23	1,158191E+23	2,666417E+23
406	7,541305E+22	7,541209E+22	5,790904E+22	5,790954E+22	1,508251E+23	1,158186E+23	2,666437E+23
407	7,540977E+22	7,541007E+22	5,791038E+22	5,790943E+22	1,508198E+23	1,158198E+23	2,666397E+23
408	7,541219E+22	7,541232E+22	5,791067E+22	5,791042E+22	1,508245E+23	1,158211E+23	2,666456E+23
409	7,541226E+22	7,541104E+22	5,791125E+22	5,791066E+22	1,508233E+23	1,158219E+23	2,666452E+23
410	7,540880E+22	7,541106E+22	5,791207E+22	5,791168E+22	1,508199E+23	1,158237E+23	2,666436E+23
411	7,541223E+22	7,541284E+22	5,791165E+22	5,791324E+22	1,508251E+23	1,158249E+23	2,666500E+23
412	7,541035E+22	7,540977E+22	5,791311E+22	5,791273E+22	1,508201E+23	1,158258E+23	2,666460E+23
413	7,540984E+22	7,541110E+22	5,791360E+22	5,791300E+22	1,508209E+23	1,158266E+23	2,666475E+23
414	7,541354E+22	7,541181E+22	5,791289E+22	5,791326E+22	1,508253E+23	1,158262E+23	2,666515E+23
415	7,541023E+22	7,540954E+22	5,791354E+22	5,791286E+22	1,508198E+23	1,158264E+23	2,666462E+23
416	7,541114E+22	7,541249E+22	5,791316E+22	5,791319E+22	1,508236E+23	1,158263E+23	2,666500E+23
417	7,541210E+22	7,541184E+22	5,791265E+22	5,791258E+22	1,508239E+23	1,158252E+23	2,666492E+23
418	7,540862E+22	7,541054E+22	5,791285E+22	5,791188E+22	1,508192E+23	1,158247E+23	2,666439E+23
419	7,541204E+22	7,541247E+22	5,791181E+22	5,791219E+22	1,508245E+23	1,158240E+23	2,666485E+23
420	7,541119E+22	7,540956E+22	5,791208E+22	5,791100E+22	1,508208E+23	1,158231E+23	2,666438E+23
421	7,540930E+22	7,541071E+22	5,791156E+22	5,791088E+22	1,508200E+23	1,158224E+23	2,666424E+23
422	7,541274E+22	7,541254E+22	5,791004E+22	5,791140E+22	1,508253E+23	1,158214E+23	2,666467E+23
423	7,541003E+22	7,540950E+22	5,791056E+22	5,791068E+22	1,508195E+23	1,158212E+23	2,666408E+23
424	7,541044E+22	7,541176E+22	5,791094E+22	5,791058E+22	1,508222E+23	1,158215E+23	2,666437E+23
425	7,541289E+22	7,541164E+22	5,791087E+22	5,791060E+22	1,508245E+23	1,158215E+23	2,666460E+23
426	7,540950E+22	7,540975E+22	5,791182E+22	5,791072E+22	1,508193E+23	1,158225E+23	2,666418E+23
427	7,541151E+22	7,541263E+22	5,791185E+22	5,791233E+22	1,508241E+23	1,158242E+23	2,666483E+23
428	7,541110E+22	7,541060E+22	5,791284E+22	5,791275E+22	1,508217E+23	1,158256E+23	2,666473E+23
429	7,540833E+22	7,541054E+22	5,791370E+22	5,791320E+22	1,508189E+23	1,158269E+23	2,666458E+23
430	7,541200E+22	7,541245E+22	5,791343E+22	5,791440E+22	1,508244E+23	1,158278E+23	2,666523E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,541080E+22	7,540871E+22	5,791444E+22	5,791407E+22	1,508195E+23	1,158285E+23	2,666480E+23
432	7,541021E+22	7,541058E+22	5,791499E+22	5,791415E+22	1,508208E+23	1,158291E+23	2,666499E+23
433	7,541291E+22	7,541201E+22	5,791423E+22	5,791478E+22	1,508249E+23	1,158290E+23	2,666539E+23
434	7,540945E+22	7,540976E+22	5,791443E+22	5,791419E+22	1,508192E+23	1,158286E+23	2,666478E+23
435	7,541041E+22	7,541259E+22	5,791420E+22	5,791445E+22	1,508230E+23	1,158287E+23	2,666517E+23
436	7,541153E+22	7,541090E+22	5,791426E+22	5,791373E+22	1,508224E+23	1,158280E+23	2,666504E+23
437	7,540872E+22	7,540963E+22	5,791422E+22	5,791273E+22	1,508183E+23	1,158270E+23	2,666453E+23
438	7,541174E+22	7,541226E+22	5,791306E+22	5,791329E+22	1,508240E+23	1,158264E+23	2,666504E+23
439	7,541103E+22	7,540914E+22	5,791270E+22	5,791265E+22	1,508202E+23	1,158253E+23	2,666455E+23
440	7,540903E+22	7,541054E+22	5,791248E+22	5,791214E+22	1,508196E+23	1,158246E+23	2,666442E+23
441	7,541218E+22	7,541254E+22	5,791148E+22	5,791258E+22	1,508247E+23	1,158241E+23	2,666488E+23
442	7,540999E+22	7,540915E+22	5,791177E+22	5,791149E+22	1,508191E+23	1,158233E+23	2,666424E+23
443	7,541034E+22	7,541157E+22	5,791234E+22	5,791172E+22	1,508219E+23	1,158241E+23	2,666460E+23
444	7,541233E+22	7,541106E+22	5,791268E+22	5,791230E+22	1,508234E+23	1,158250E+23	2,666484E+23
445	7,540888E+22	7,540952E+22	5,791329E+22	5,791250E+22	1,508184E+23	1,158258E+23	2,666442E+23
446	7,541049E+22	7,541268E+22	5,791342E+22	5,791411E+22	1,508232E+23	1,158275E+23	2,666507E+23
447	7,541087E+22	7,540956E+22	5,791412E+22	5,791455E+22	1,508204E+23	1,158287E+23	2,666491E+23
448	7,540870E+22	7,540950E+22	5,791526E+22	5,791431E+22	1,508182E+23	1,158296E+23	2,666478E+23
449	7,541214E+22	7,541192E+22	5,791507E+22	5,791558E+22	1,508241E+23	1,158307E+23	2,666547E+23
450	7,541083E+22	7,540866E+22	5,791546E+22	5,791523E+22	1,508195E+23	1,158307E+23	2,666502E+23
451	7,540968E+22	7,541131E+22	5,791592E+22	5,791565E+22	1,508210E+23	1,158316E+23	2,666526E+23
452	7,541183E+22	7,541202E+22	5,791579E+22	5,791637E+22	1,508239E+23	1,158322E+23	2,666560E+23
453	7,540877E+22	7,540956E+22	5,791607E+22	5,791533E+22	1,508183E+23	1,158314E+23	2,666497E+23
454	7,540983E+22	7,541226E+22	5,791597E+22	5,791544E+22	1,508221E+23	1,158314E+23	2,666535E+23
455	7,541157E+22	7,540960E+22	5,791549E+22	5,791518E+22	1,508212E+23	1,158307E+23	2,666518E+23
456	7,540892E+22	7,540884E+22	5,791530E+22	5,791405E+22	1,508178E+23	1,158294E+23	2,666471E+23
457	7,541126E+22	7,541211E+22	5,791391E+22	5,791483E+22	1,508234E+23	1,158287E+23	2,666521E+23
458	7,541061E+22	7,540910E+22	5,791313E+22	5,791382E+22	1,508197E+23	1,158270E+23	2,666467E+23
459	7,540890E+22	7,541066E+22	5,791325E+22	5,791304E+22	1,508196E+23	1,158263E+23	2,666458E+23
460	7,541193E+22	7,541181E+22	5,791312E+22	5,791341E+22	1,508237E+23	1,158265E+23	2,666503E+23
461	7,540999E+22	7,540879E+22	5,791343E+22	5,791232E+22	1,508188E+23	1,158258E+23	2,666445E+23
462	7,540967E+22	7,541171E+22	5,791409E+22	5,791302E+22	1,508214E+23	1,158271E+23	2,666485E+23
463	7,541157E+22	7,541060E+22	5,791399E+22	5,791438E+22	1,508222E+23	1,158284E+23	2,666505E+23
464	7,540834E+22	7,540901E+22	5,791483E+22	5,791424E+22	1,508174E+23	1,158291E+23	2,666464E+23
465	7,540992E+22	7,541212E+22	5,791517E+22	5,791578E+22	1,508220E+23	1,158310E+23	2,666530E+23
466	7,541100E+22	7,540889E+22	5,791536E+22	5,791586E+22	1,508199E+23	1,158312E+23	2,666511E+23
467	7,540904E+22	7,540931E+22	5,791642E+22	5,791569E+22	1,508183E+23	1,158321E+23	2,666505E+23
468	7,541180E+22	7,541166E+22	5,791668E+22	5,791724E+22	1,508235E+23	1,158339E+23	2,666574E+23
469	7,541025E+22	7,540907E+22	5,791674E+22	5,791672E+22	1,508193E+23	1,158335E+23	2,666528E+23
470	7,540862E+22	7,541172E+22	5,791754E+22	5,791698E+22	1,508203E+23	1,158345E+23	2,666549E+23
471	7,541138E+22	7,541113E+22	5,791723E+22	5,791780E+22	1,508225E+23	1,158350E+23	2,666575E+23
472	7,540890E+22	7,540831E+22	5,791763E+22	5,791624E+22	1,508172E+23	1,158339E+23	2,666511E+23
473	7,540964E+22	7,541142E+22	5,791738E+22	5,791663E+22	1,508211E+23	1,158340E+23	2,666551E+23
474	7,541147E+22	7,540919E+22	5,791595E+22	5,791639E+22	1,508207E+23	1,158323E+23	2,666530E+23
475	7,540856E+22	7,540914E+22	5,791560E+22	5,791536E+22	1,508177E+23	1,158310E+23	2,666487E+23
476	7,541058E+22	7,541197E+22	5,791505E+22	5,791606E+22	1,508226E+23	1,158311E+23	2,666537E+23
477	7,541036E+22	7,540910E+22	5,791443E+22	5,791449E+22	1,508195E+23	1,158289E+23	2,666484E+23
478	7,540859E+22	7,541064E+22	5,791508E+22	5,791370E+22	1,508192E+23	1,158288E+23	2,666480E+23
479	7,541180E+22	7,541093E+22	5,791470E+22	5,791481E+22	1,508227E+23	1,158295E+23	2,666522E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,540968E+22	7,540823E+22	5,791505E+22	5,791395E+22	1,508179E+23	1,158290E+23	2,666469E+23
481	7,540859E+22	7,541156E+22	5,791556E+22	5,791513E+22	1,508202E+23	1,158307E+23	2,666508E+23
482	7,541086E+22	7,541013E+22	5,791494E+22	5,791623E+22	1,508210E+23	1,158312E+23	2,666522E+23
483	7,540831E+22	7,540861E+22	5,791589E+22	5,791574E+22	1,508169E+23	1,158316E+23	2,666485E+23
484	7,541003E+22	7,541116E+22	5,791688E+22	5,791713E+22	1,508212E+23	1,158340E+23	2,666552E+23
485	7,541123E+22	7,540877E+22	5,791683E+22	5,791694E+22	1,508200E+23	1,158338E+23	2,666538E+23
486	7,540867E+22	7,540989E+22	5,791805E+22	5,791697E+22	1,508186E+23	1,158350E+23	2,666536E+23
487	7,541108E+22	7,541153E+22	5,791809E+22	5,791903E+22	1,508226E+23	1,158371E+23	2,666597E+23
488	7,540968E+22	7,540882E+22	5,791856E+22	5,791809E+22	1,508185E+23	1,158367E+23	2,666552E+23
489	7,540787E+22	7,541114E+22	5,791939E+22	5,791830E+22	1,508190E+23	1,158377E+23	2,666567E+23
490	7,541112E+22	7,541013E+22	5,791838E+22	5,791897E+22	1,508213E+23	1,158374E+23	2,666586E+23
491	7,540905E+22	7,540777E+22	5,791842E+22	5,791756E+22	1,508168E+23	1,158360E+23	2,666528E+23
492	7,540926E+22	7,541074E+22	5,791839E+22	5,791821E+22	1,508200E+23	1,158366E+23	2,666566E+23
493	7,541098E+22	7,540947E+22	5,791659E+22	5,791760E+22	1,508205E+23	1,158342E+23	2,666547E+23
494	7,540804E+22	7,540951E+22	5,791669E+22	5,791620E+22	1,508176E+23	1,158329E+23	2,666504E+23
495	7,541043E+22	7,541122E+22	5,791631E+22	5,791695E+22	1,508216E+23	1,158333E+23	2,666549E+23
496	7,541058E+22	7,540840E+22	5,791610E+22	5,791511E+22	1,508190E+23	1,158312E+23	2,666502E+23
497	7,540810E+22	7,541025E+22	5,791680E+22	5,791495E+22	1,508184E+23	1,158318E+23	2,666501E+23
498	7,541105E+22	7,541073E+22	5,791569E+22	5,791649E+22	1,508218E+23	1,158322E+23	2,666540E+23
499	7,540895E+22	7,540835E+22	5,791595E+22	5,791590E+22	1,508173E+23	1,158318E+23	2,666491E+23
500	7,540781E+22	7,541088E+22	5,791720E+22	5,791705E+22	1,508187E+23	1,158342E+23	2,666529E+23
501	7,541073E+22	7,540977E+22	5,791642E+22	5,791750E+22	1,508205E+23	1,158339E+23	2,666544E+23
502	7,540846E+22	7,540839E+22	5,791767E+22	5,791682E+22	1,508168E+23	1,158345E+23	2,666513E+23
503	7,541029E+22	7,541041E+22	5,791843E+22	5,791872E+22	1,508207E+23	1,158372E+23	2,666579E+23
504	7,541118E+22	7,540859E+22	5,791842E+22	5,791842E+22	1,508198E+23	1,158368E+23	2,666566E+23
505	7,540765E+22	7,541009E+22	5,791970E+22	5,791875E+22	1,508177E+23	1,158385E+23	2,666562E+23
506	7,541027E+22	7,541115E+22	5,791927E+22	5,792047E+22	1,508214E+23	1,158397E+23	2,666612E+23
507	7,540941E+22	7,540821E+22	5,791979E+22	5,791931E+22	1,508176E+23	1,158391E+23	2,666567E+23
508	7,540764E+22	7,540993E+22	5,792104E+22	5,791960E+22	1,508176E+23	1,158406E+23	2,666582E+23
509	7,541100E+22	7,540978E+22	5,791940E+22	5,792005E+22	1,508208E+23	1,158394E+23	2,666602E+23
510	7,540865E+22	7,540812E+22	5,791939E+22	5,791874E+22	1,508168E+23	1,158381E+23	2,666549E+23
511	7,540881E+22	7,541047E+22	5,791918E+22	5,791967E+22	1,508193E+23	1,158389E+23	2,666581E+23
512	7,541076E+22	7,540927E+22	5,791791E+22	5,791844E+22	1,508200E+23	1,158364E+23	2,666564E+23
513	7,540759E+22	7,540932E+22	5,791836E+22	5,791708E+22	1,508169E+23	1,158354E+23	2,666523E+23
514	7,541020E+22	7,541058E+22	5,791754E+22	5,791787E+22	1,508208E+23	1,158354E+23	2,666562E+23
515	7,541043E+22	7,540814E+22	5,791725E+22	5,791652E+22	1,508186E+23	1,158338E+23	2,666524E+23
516	7,540729E+22	7,540970E+22	5,791825E+22	5,791696E+22	1,508170E+23	1,158352E+23	2,666522E+23
517	7,541011E+22	7,541078E+22	5,791676E+22	5,791824E+22	1,508209E+23	1,158350E+23	2,666559E+23
518	7,540855E+22	7,540823E+22	5,791736E+22	5,791731E+22	1,508168E+23	1,158347E+23	2,666514E+23
519	7,540802E+22	7,540958E+22	5,791862E+22	5,791842E+22	1,508176E+23	1,158370E+23	2,666546E+23
520	7,541134E+22	7,540898E+22	5,791814E+22	5,791844E+22	1,508203E+23	1,158366E+23	2,666569E+23
521	7,540838E+22	7,540830E+22	5,791933E+22	5,791812E+22	1,508167E+23	1,158374E+23	2,666541E+23
522	7,540962E+22	7,541049E+22	5,791954E+22	5,792023E+22	1,508201E+23	1,158398E+23	2,666599E+23
523	7,541044E+22	7,540904E+22	5,791966E+22	5,792009E+22	1,508195E+23	1,158398E+23	2,666592E+23
524	7,540666E+22	7,540950E+22	5,792166E+22	5,792048E+22	1,508162E+23	1,158421E+23	2,666583E+23
525	7,540962E+22	7,541076E+22	5,792091E+22	5,792169E+22	1,508204E+23	1,158426E+23	2,666630E+23
526	7,540932E+22	7,540773E+22	5,792142E+22	5,792054E+22	1,508170E+23	1,158420E+23	2,666590E+23
527	7,540764E+22	7,540880E+22	5,792219E+22	5,792129E+22	1,508164E+23	1,158435E+23	2,666599E+23
528	7,541092E+22	7,540949E+22	5,792040E+22	5,792143E+22	1,508204E+23	1,158418E+23	2,666622E+23

1	14	15	16	17	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							
529	7,540801E+22	7,540828E+22	5,792039E+22	5,792005E+22	1,508163E+23	1,158404E+23	2,666567E+23
530	7,540847E+22	7,541014E+22	5,791994E+22	5,792052E+22	1,508186E+23	1,158405E+23	2,666591E+23
531	7,541089E+22	7,540900E+22	5,791895E+22	5,791908E+22	1,508199E+23	1,158380E+23	2,666579E+23
532	7,540738E+22	7,540852E+22	5,792005E+22	5,791815E+22	1,508159E+23	1,158382E+23	2,666541E+23
533	7,540960E+22	7,541060E+22	5,791877E+22	5,791898E+22	1,508202E+23	1,158378E+23	2,666580E+23
534	7,540965E+22	7,540841E+22	5,791858E+22	5,791807E+22	1,508181E+23	1,158367E+23	2,666547E+23
535	7,540665E+22	7,540899E+22	5,791949E+22	5,791889E+22	1,508156E+23	1,158384E+23	2,666540E+23
536	7,541005E+22	7,540999E+22	5,791830E+22	5,791949E+22	1,508200E+23	1,158378E+23	2,666578E+23
537	7,540844E+22	7,540769E+22	5,791905E+22	5,791850E+22	1,508161E+23	1,158376E+23	2,666537E+23
538	7,540827E+22	7,540890E+22	5,791975E+22	5,791958E+22	1,508172E+23	1,158393E+23	2,666565E+23
539	7,541142E+22	7,540898E+22	5,791929E+22	5,791990E+22	1,508204E+23	1,158392E+23	2,666596E+23
540	7,540755E+22	7,540829E+22	5,792100E+22	5,792013E+22	1,508158E+23	1,158411E+23	2,666570E+23
541	7,540843E+22	7,541089E+22	5,792096E+22	5,792180E+22	1,508193E+23	1,158428E+23	2,666621E+23
542	7,540976E+22	7,540895E+22	5,792152E+22	5,792148E+22	1,508187E+23	1,158430E+23	2,666617E+23
543	7,540653E+22	7,540809E+22	5,792336E+22	5,792201E+22	1,508146E+23	1,158454E+23	2,666600E+23
544	7,540987E+22	7,540969E+22	5,792253E+22	5,792283E+22	1,508196E+23	1,158454E+23	2,666649E+23
545	7,540908E+22	7,540749E+22	5,792271E+22	5,792198E+22	1,508166E+23	1,158447E+23	2,666613E+23
546	7,540728E+22	7,540866E+22	5,792268E+22	5,792270E+22	1,508159E+23	1,158454E+23	2,666613E+23
547	7,541066E+22	7,540977E+22	5,792114E+22	5,792259E+22	1,508204E+23	1,158437E+23	2,666642E+23
548	7,540756E+22	7,540796E+22	5,792193E+22	5,792113E+22	1,508155E+23	1,158431E+23	2,666586E+23
549	7,540801E+22	7,541011E+22	5,792134E+22	5,792108E+22	1,508181E+23	1,158424E+23	2,666605E+23
550	7,541079E+22	7,540891E+22	5,792057E+22	5,792000E+22	1,508197E+23	1,158406E+23	2,666603E+23
551	7,540702E+22	7,540751E+22	5,792134E+22	5,791986E+22	1,508145E+23	1,158412E+23	2,666557E+23
552	7,540899E+22	7,541021E+22	5,791999E+22	5,792061E+22	1,508192E+23	1,158406E+23	2,666598E+23
553	7,540887E+22	7,540819E+22	5,791976E+22	5,791970E+22	1,508171E+23	1,158395E+23	2,666565E+23
554	7,540646E+22	7,540804E+22	5,792028E+22	5,792010E+22	1,508145E+23	1,158404E+23	2,666549E+23
555	7,541051E+22	7,540943E+22	5,791938E+22	5,792042E+22	1,508199E+23	1,158398E+23	2,666597E+23
556	7,540854E+22	7,540711E+22	5,792065E+22	5,791978E+22	1,508157E+23	1,158404E+23	2,666561E+23
557	7,540772E+22	7,540939E+22	5,792103E+22	5,792077E+22	1,508171E+23	1,158418E+23	2,666589E+23
558	7,541065E+22	7,540973E+22	5,792088E+22	5,792149E+22	1,508204E+23	1,158424E+23	2,666628E+23
559	7,540665E+22	7,540775E+22	5,792281E+22	5,792211E+22	1,508144E+23	1,158449E+23	2,666593E+23
560	7,540792E+22	7,541021E+22	5,792304E+22	5,792322E+22	1,508181E+23	1,158463E+23	2,666644E+23
561	7,540940E+22	7,540819E+22	5,792352E+22	5,792296E+22	1,508176E+23	1,158465E+23	2,666641E+23
562	7,540667E+22	7,540694E+22	5,792447E+22	5,792352E+22	1,508136E+23	1,158480E+23	2,666616E+23
563	7,541006E+22	7,540934E+22	5,792337E+22	5,792438E+22	1,508194E+23	1,158477E+23	2,666671E+23
564	7,540856E+22	7,540742E+22	5,792376E+22	5,792374E+22	1,508160E+23	1,158475E+23	2,666635E+23
565	7,540664E+22	7,540911E+22	5,792349E+22	5,792365E+22	1,508157E+23	1,158471E+23	2,666629E+23
566	7,541048E+22	7,540985E+22	5,792253E+22	5,792326E+22	1,508203E+23	1,158458E+23	2,666661E+23
567	7,540754E+22	7,540700E+22	5,792347E+22	5,792208E+22	1,508145E+23	1,158456E+23	2,666601E+23
568	7,540794E+22	7,540945E+22	5,792286E+22	5,792185E+22	1,508174E+23	1,158447E+23	2,666621E+23
569	7,540993E+22	7,540882E+22	5,792193E+22	5,792140E+22	1,508187E+23	1,158433E+23	2,666621E+23
570	7,540627E+22	7,540713E+22	5,792195E+22	5,792152E+22	1,508134E+23	1,158435E+23	2,666569E+23
571	7,540861E+22	7,540985E+22	5,792085E+22	5,792203E+22	1,508185E+23	1,158429E+23	2,666613E+23
572	7,540854E+22	7,540754E+22	5,792123E+22	5,792114E+22	1,508161E+23	1,158424E+23	2,666585E+23
573	7,540641E+22	7,540789E+22	5,792144E+22	5,792092E+22	1,508143E+23	1,158424E+23	2,666567E+23
574	7,541071E+22	7,540946E+22	5,792093E+22	5,792155E+22	1,508202E+23	1,158425E+23	2,666626E+23
575	7,540823E+22	7,540672E+22	5,792217E+22	5,792161E+22	1,508149E+23	1,158438E+23	2,666587E+23
576	7,540698E+22	7,540943E+22	5,792272E+22	5,792238E+22	1,508164E+23	1,158451E+23	2,666615E+23
577	7,540964E+22	7,540968E+22	5,792281E+22	5,792319E+22	1,508193E+23	1,158460E+23	2,666653E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
578	7,540637E+22	7,540664E+22	5,792425E+22	5,792362E+22	1,508130E+23	1,158479E+23	2,666609E+23
579	7,540818E+22	7,540924E+22	5,792452E+22	5,792452E+22	1,508174E+23	1,158490E+23	2,666665E+23
580	7,540935E+22	7,540742E+22	5,792505E+22	5,792466E+22	1,508168E+23	1,158497E+23	2,666665E+23
581	7,540621E+22	7,540725E+22	5,792529E+22	5,792487E+22	1,508135E+23	1,158502E+23	2,666636E+23
582	7,540971E+22	7,540996E+22	5,792447E+22	5,792578E+22	1,508197E+23	1,158502E+23	2,666699E+23
583	7,540811E+22	7,540702E+22	5,792507E+22	5,792509E+22	1,508151E+23	1,158502E+23	2,666653E+23
584	7,540637E+22	7,540878E+22	5,792518E+22	5,792430E+22	1,508152E+23	1,158495E+23	2,666646E+23
585	7,541010E+22	7,540954E+22	5,792426E+22	5,792408E+22	1,508196E+23	1,158483E+23	2,666680E+23
586	7,540729E+22	7,540603E+22	5,792447E+22	5,792335E+22	1,508133E+23	1,158478E+23	2,666611E+23
587	7,540748E+22	7,540910E+22	5,792373E+22	5,792340E+22	1,508166E+23	1,158471E+23	2,666637E+23
588	7,540896E+22	7,540848E+22	5,792294E+22	5,792334E+22	1,508174E+23	1,158463E+23	2,666637E+23
589	7,540558E+22	7,540703E+22	5,792265E+22	5,792264E+22	1,508126E+23	1,158453E+23	2,666579E+23
590	7,540884E+22	7,540949E+22	5,792206E+22	5,792291E+22	1,508183E+23	1,158450E+23	2,666633E+23
591	7,540886E+22	7,540655E+22	5,792260E+22	5,792222E+22	1,508154E+23	1,158448E+23	2,666602E+23
592	7,540658E+22	7,540767E+22	5,792300E+22	5,792180E+22	1,508142E+23	1,158448E+23	2,666590E+23
593	7,540998E+22	7,540987E+22	5,792261E+22	5,792297E+22	1,508198E+23	1,158456E+23	2,666654E+23
594	7,540743E+22	7,540657E+22	5,792348E+22	5,792341E+22	1,508140E+23	1,158469E+23	2,666609E+23
595	7,540639E+22	7,540910E+22	5,792440E+22	5,792401E+22	1,508155E+23	1,158484E+23	2,666639E+23
596	7,540896E+22	7,540890E+22	5,792486E+22	5,792506E+22	1,508179E+23	1,158499E+23	2,666678E+23
597	7,540617E+22	7,540614E+22	5,792567E+22	5,792498E+22	1,508123E+23	1,158507E+23	2,666630E+23
598	7,540840E+22	7,540880E+22	5,792592E+22	5,792613E+22	1,508172E+23	1,158520E+23	2,666693E+23
599	7,540907E+22	7,540699E+22	5,792620E+22	5,792666E+22	1,508161E+23	1,158529E+23	2,666689E+23
600	7,540585E+22	7,540739E+22	5,792639E+22	5,792616E+22	1,508132E+23	1,158526E+23	2,666658E+23
601	7,540903E+22	7,541001E+22	5,792599E+22	5,792678E+22	1,508190E+23	1,158528E+23	2,666718E+23
602	7,540800E+22	7,540628E+22	5,792626E+22	5,792592E+22	1,508143E+23	1,158522E+23	2,666665E+23
603	7,540645E+22	7,540808E+22	5,792652E+22	5,792503E+22	1,508145E+23	1,158516E+23	2,666661E+23
604	7,540944E+22	7,540906E+22	5,792569E+22	5,792552E+22	1,508185E+23	1,158512E+23	2,666697E+23
605	7,540637E+22	7,540622E+22	5,792517E+22	5,792466E+22	1,508126E+23	1,158498E+23	2,666624E+23
606	7,540693E+22	7,540912E+22	5,792471E+22	5,792489E+22	1,508161E+23	1,158496E+23	2,666656E+23
607	7,540853E+22	7,540770E+22	5,792416E+22	5,792483E+22	1,508162E+23	1,158490E+23	2,666652E+23
608	7,540573E+22	7,540650E+22	5,792404E+22	5,792338E+22	1,508122E+23	1,158474E+23	2,666596E+23
609	7,540891E+22	7,540918E+22	5,792372E+22	5,792378E+22	1,508181E+23	1,158475E+23	2,666656E+23
610	7,540896E+22	7,540602E+22	5,792370E+22	5,792356E+22	1,508150E+23	1,158473E+23	2,666622E+23
611	7,540617E+22	7,540775E+22	5,792430E+22	5,792339E+22	1,508139E+23	1,158477E+23	2,666616E+23
612	7,540879E+22	7,540990E+22	5,792426E+22	5,792503E+22	1,508187E+23	1,158493E+23	2,666680E+23
613	7,540650E+22	7,540641E+22	5,792492E+22	5,792488E+22	1,508129E+23	1,158498E+23	2,666627E+23
614	7,540640E+22	7,540846E+22	5,792617E+22	5,792549E+22	1,508149E+23	1,158517E+23	2,666665E+23
615	7,540900E+22	7,540763E+22	5,792648E+22	5,792674E+22	1,508166E+23	1,158532E+23	2,666699E+23
616	7,540620E+22	7,540575E+22	5,792703E+22	5,792633E+22	1,508119E+23	1,158534E+23	2,666653E+23
617	7,540789E+22	7,540911E+22	5,792725E+22	5,792763E+22	1,508170E+23	1,158549E+23	2,666719E+23
618	7,540862E+22	7,540679E+22	5,792712E+22	5,792813E+22	1,508154E+23	1,158553E+23	2,666707E+23
619	7,540561E+22	7,540723E+22	5,792786E+22	5,792716E+22	1,508128E+23	1,158550E+23	2,666679E+23
620	7,540847E+22	7,540955E+22	5,792782E+22	5,792793E+22	1,508180E+23	1,158557E+23	2,666738E+23
621	7,540758E+22	7,540597E+22	5,792757E+22	5,792679E+22	1,508135E+23	1,158544E+23	2,666679E+23
622	7,540626E+22	7,540774E+22	5,792778E+22	5,792646E+22	1,508140E+23	1,158542E+23	2,666682E+23
623	7,540858E+22	7,540847E+22	5,792670E+22	5,792745E+22	1,508170E+23	1,158541E+23	2,666712E+23
624	7,540585E+22	7,540599E+22	5,792609E+22	5,792597E+22	1,508118E+23	1,158521E+23	2,666639E+23
625	7,540663E+22	7,540867E+22	5,792600E+22	5,792585E+22	1,508153E+23	1,158518E+23	2,666672E+23
626	7,540890E+22	7,540671E+22	5,792510E+22	5,792567E+22	1,508156E+23	1,158508E+23	2,666664E+23

1	14	15	16	17	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							
627	7,540625E+22	7,540604E+22	5,792527E+22	5,792409E+22	1,508123E+23	1,158494E+23	2,666616E+23
628	7,540832E+22	7,540924E+22	5,792521E+22	5,792522E+22	1,508176E+23	1,158504E+23	2,666680E+23
629	7,540798E+22	7,540669E+22	5,792481E+22	5,792498E+22	1,508147E+23	1,158498E+23	2,666645E+23
630	7,540545E+22	7,540785E+22	5,792587E+22	5,792515E+22	1,508133E+23	1,158510E+23	2,666643E+23
631	7,540787E+22	7,540911E+22	5,792616E+22	5,792694E+22	1,508170E+23	1,158531E+23	2,666701E+23
632	7,540640E+22	7,540565E+22	5,792670E+22	5,792620E+22	1,508120E+23	1,158529E+23	2,666649E+23
633	7,540633E+22	7,540762E+22	5,792800E+22	5,792693E+22	1,508139E+23	1,158549E+23	2,666689E+23
634	7,540908E+22	7,540684E+22	5,792753E+22	5,792854E+22	1,508159E+23	1,158561E+23	2,666720E+23
635	7,540610E+22	7,540571E+22	5,792808E+22	5,792790E+22	1,508118E+23	1,158560E+23	2,666678E+23
636	7,540708E+22	7,540918E+22	5,792867E+22	5,792928E+22	1,508163E+23	1,158580E+23	2,666742E+23
637	7,540810E+22	7,540685E+22	5,792837E+22	5,792895E+22	1,508150E+23	1,158573E+23	2,666723E+23
638	7,540572E+22	7,540682E+22	5,792948E+22	5,792807E+22	1,508125E+23	1,158575E+23	2,666701E+23
639	7,540804E+22	7,540870E+22	5,792943E+22	5,792926E+22	1,508167E+23	1,158587E+23	2,666754E+23
640	7,540711E+22	7,540577E+22	5,792884E+22	5,792802E+22	1,508129E+23	1,158569E+23	2,666697E+23
641	7,540541E+22	7,540770E+22	5,792904E+22	5,792795E+22	1,508131E+23	1,158570E+23	2,666701E+23
642	7,540812E+22	7,540780E+22	5,792746E+22	5,792896E+22	1,508159E+23	1,158564E+23	2,666723E+23
643	7,540593E+22	7,540545E+22	5,792721E+22	5,792690E+22	1,508114E+23	1,158541E+23	2,666655E+23
644	7,540655E+22	7,540820E+22	5,792737E+22	5,792694E+22	1,508148E+23	1,158543E+23	2,666691E+23
645	7,540884E+22	7,540660E+22	5,792611E+22	5,792644E+22	1,508154E+23	1,158525E+23	2,666680E+23
646	7,540621E+22	7,540621E+22	5,792650E+22	5,792554E+22	1,508124E+23	1,158520E+23	2,666645E+23
647	7,540724E+22	7,540910E+22	5,792656E+22	5,792710E+22	1,508163E+23	1,158537E+23	2,666700E+23
648	7,540709E+22	7,540656E+22	5,792633E+22	5,792643E+22	1,508137E+23	1,158528E+23	2,666664E+23
649	7,540493E+22	7,540716E+22	5,792781E+22	5,792647E+22	1,508121E+23	1,158543E+23	2,666664E+23
650	7,540798E+22	7,540765E+22	5,792754E+22	5,792836E+22	1,508156E+23	1,158559E+23	2,666715E+23
651	7,540682E+22	7,540481E+22	5,792812E+22	5,792749E+22	1,508116E+23	1,158556E+23	2,666672E+23
652	7,540595E+22	7,540747E+22	5,792932E+22	5,792875E+22	1,508134E+23	1,158581E+23	2,666715E+23
653	7,540841E+22	7,540733E+22	5,792848E+22	5,792993E+22	1,508157E+23	1,158584E+23	2,666741E+23
654	7,540586E+22	7,540601E+22	5,792953E+22	5,792935E+22	1,508119E+23	1,158589E+23	2,666707E+23
655	7,540636E+22	7,540873E+22	5,793058E+22	5,793065E+22	1,508151E+23	1,158612E+23	2,666763E+23
656	7,540790E+22	7,540652E+22	5,793024E+22	5,792990E+22	1,508144E+23	1,158601E+23	2,666746E+23
657	7,540542E+22	7,540623E+22	5,793136E+22	5,792935E+22	1,508116E+23	1,158607E+23	2,666724E+23
658	7,540754E+22	7,540793E+22	5,793040E+22	5,793107E+22	1,508155E+23	1,158615E+23	2,666769E+23
659	7,540670E+22	7,540547E+22	5,792969E+22	5,792964E+22	1,508122E+23	1,158593E+23	2,666715E+23
660	7,540468E+22	7,540731E+22	5,793005E+22	5,792955E+22	1,508120E+23	1,158596E+23	2,666716E+23
661	7,540803E+22	7,540746E+22	5,792826E+22	5,792963E+22	1,508155E+23	1,158579E+23	2,666734E+23
662	7,540660E+22	7,540501E+22	5,792823E+22	5,792756E+22	1,508116E+23	1,158558E+23	2,666674E+23
663	7,540630E+22	7,540777E+22	5,792866E+22	5,792797E+22	1,508141E+23	1,158566E+23	2,666707E+23
664	7,540839E+22	7,540701E+22	5,792728E+22	5,792742E+22	1,508154E+23	1,158547E+23	2,666701E+23
665	7,540523E+22	7,540635E+22	5,792813E+22	5,792694E+22	1,508116E+23	1,158551E+23	2,666667E+23
666	7,540638E+22	7,540841E+22	5,792798E+22	5,792875E+22	1,508148E+23	1,158567E+23	2,666715E+23
667	7,540693E+22	7,540571E+22	5,792807E+22	5,792777E+22	1,508126E+23	1,158558E+23	2,666685E+23
668	7,540469E+22	7,540621E+22	5,792956E+22	5,792813E+22	1,508109E+23	1,158577E+23	2,666686E+23
669	7,540799E+22	7,540711E+22	5,792868E+22	5,792972E+22	1,508151E+23	1,158584E+23	2,666735E+23
670	7,540697E+22	7,540485E+22	5,792918E+22	5,792930E+22	1,508118E+23	1,158585E+23	2,666703E+23
671	7,540516E+22	7,540753E+22	5,793059E+22	5,793068E+22	1,508127E+23	1,158613E+23	2,666740E+23
672	7,540792E+22	7,540754E+22	5,793001E+22	5,793111E+22	1,508155E+23	1,158611E+23	2,666766E+23
673	7,540557E+22	7,540569E+22	5,793166E+22	5,793037E+22	1,508113E+23	1,158620E+23	2,666733E+23
674	7,540624E+22	7,540770E+22	5,793217E+22	5,793187E+22	1,508139E+23	1,158640E+23	2,666780E+23
675	7,540782E+22	7,540589E+22	5,793180E+22	5,793121E+22	1,508137E+23	1,158630E+23	2,666767E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
676	7,540459E+22	7,540601E+22	5,793259E+22	5,793126E+22	1,508106E+23	1,158638E+23	2,666745E+23
677	7,540673E+22	7,540781E+22	5,793105E+22	5,793245E+22	1,508145E+23	1,158635E+23	2,666780E+23
678	7,540666E+22	7,540531E+22	5,793059E+22	5,793094E+22	1,508120E+23	1,158615E+23	2,666735E+23
679	7,540447E+22	7,540666E+22	5,793120E+22	5,793056E+22	1,508111E+23	1,158618E+23	2,666729E+23
680	7,540821E+22	7,540714E+22	5,792950E+22	5,793010E+22	1,508153E+23	1,158596E+23	2,666749E+23
681	7,540657E+22	7,540486E+22	5,792979E+22	5,792841E+22	1,508114E+23	1,158582E+23	2,666696E+23
682	7,540569E+22	7,540741E+22	5,792964E+22	5,792941E+22	1,508131E+23	1,158590E+23	2,666721E+23
683	7,540770E+22	7,540690E+22	5,792858E+22	5,792890E+22	1,508146E+23	1,158575E+23	2,666721E+23
684	7,540431E+22	7,540584E+22	5,792967E+22	5,792866E+22	1,508102E+23	1,158583E+23	2,666685E+23
685	7,540602E+22	7,540758E+22	5,792925E+22	5,792984E+22	1,508136E+23	1,158591E+23	2,666727E+23
686	7,540741E+22	7,540502E+22	5,792935E+22	5,792917E+22	1,508124E+23	1,158585E+23	2,666709E+23
687	7,540444E+22	7,540567E+22	5,793086E+22	5,792985E+22	1,508101E+23	1,158607E+23	2,666708E+23
688	7,540765E+22	7,540750E+22	5,792990E+22	5,793118E+22	1,508152E+23	1,158611E+23	2,666762E+23
689	7,540642E+22	7,540524E+22	5,793090E+22	5,793079E+22	1,508117E+23	1,158617E+23	2,666733E+23
690	7,540460E+22	7,540716E+22	5,793221E+22	5,793218E+22	1,508118E+23	1,158644E+23	2,666762E+23
691	7,540787E+22	7,540706E+22	5,793203E+22	5,793229E+22	1,508149E+23	1,158643E+23	2,666793E+23
692	7,540514E+22	7,540497E+22	5,793365E+22	5,793201E+22	1,508101E+23	1,158657E+23	2,666758E+23
693	7,540578E+22	7,540717E+22	5,793343E+22	5,793333E+22	1,508130E+23	1,158668E+23	2,666797E+23
694	7,540760E+22	7,540570E+22	5,793263E+22	5,793309E+22	1,508133E+23	1,158657E+23	2,666790E+23
695	7,540368E+22	7,540559E+22	5,793347E+22	5,793306E+22	1,508093E+23	1,158665E+23	2,666758E+23
696	7,540655E+22	7,540756E+22	5,793201E+22	5,793326E+22	1,508141E+23	1,158653E+23	2,666794E+23
697	7,540688E+22	7,540480E+22	5,793199E+22	5,793140E+22	1,508117E+23	1,158634E+23	2,666751E+23
698	7,540470E+22	7,540589E+22	5,793223E+22	5,793124E+22	1,508106E+23	1,158635E+23	2,666741E+23
699	7,540824E+22	7,540700E+22	5,793073E+22	5,793089E+22	1,508152E+23	1,158616E+23	2,666769E+23
700	7,540554E+22	7,540509E+22	5,793110E+22	5,793000E+22	1,508106E+23	1,158611E+23	2,666717E+23
701	7,540454E+22	7,540742E+22	5,793071E+22	5,793073E+22	1,508120E+23	1,158614E+23	2,666734E+23
702	7,540725E+22	7,540659E+22	5,792992E+22	5,793047E+22	1,508138E+23	1,158604E+23	2,666742E+23
703	7,540380E+22	7,540494E+22	5,793125E+22	5,793027E+22	1,508087E+23	1,158615E+23	2,666703E+23
704	7,540618E+22	7,540692E+22	5,793070E+22	5,793103E+22	1,508131E+23	1,158617E+23	2,666748E+23
705	7,540749E+22	7,540476E+22	5,793091E+22	5,793068E+22	1,508123E+23	1,158616E+23	2,666738E+23
706	7,540412E+22	7,540546E+22	5,793182E+22	5,793170E+22	1,508096E+23	1,158635E+23	2,666731E+23
707	7,540730E+22	7,540753E+22	5,793139E+22	5,793270E+22	1,508148E+23	1,158641E+23	2,666789E+23
708	7,540583E+22	7,540505E+22	5,793280E+22	5,793236E+22	1,508109E+23	1,158652E+23	2,666760E+23
709	7,540434E+22	7,540646E+22	5,793383E+22	5,793311E+22	1,508108E+23	1,158669E+23	2,666777E+23
710	7,540799E+22	7,540655E+22	5,793357E+22	5,793370E+22	1,508145E+23	1,158673E+23	2,666818E+23
711	7,540446E+22	7,540447E+22	5,793501E+22	5,793381E+22	1,508089E+23	1,158688E+23	2,666778E+23
712	7,540505E+22	7,540713E+22	5,793451E+22	5,793478E+22	1,508122E+23	1,158693E+23	2,666815E+23
713	7,540703E+22	7,540567E+22	5,793401E+22	5,793445E+22	1,508127E+23	1,158685E+23	2,666812E+23
714	7,540346E+22	7,540488E+22	5,793447E+22	5,793423E+22	1,508083E+23	1,158687E+23	2,666770E+23
715	7,540688E+22	7,540696E+22	5,793343E+22	5,793394E+22	1,508138E+23	1,158674E+23	2,666812E+23
716	7,540677E+22	7,540446E+22	5,793342E+22	5,793245E+22	1,508112E+23	1,158659E+23	2,666771E+23
717	7,540425E+22	7,540575E+22	5,793315E+22	5,793221E+22	1,508100E+23	1,158654E+23	2,666754E+23
718	7,540764E+22	7,540733E+22	5,793158E+22	5,793251E+22	1,508150E+23	1,158641E+23	2,666791E+23
719	7,540430E+22	7,540484E+22	5,793232E+22	5,793181E+22	1,508091E+23	1,158641E+23	2,666733E+23
720	7,540400E+22	7,540689E+22	5,793214E+22	5,793184E+22	1,508109E+23	1,158640E+23	2,666749E+23
721	7,540731E+22	7,540578E+22	5,793165E+22	5,793154E+22	1,508131E+23	1,158632E+23	2,666763E+23
722	7,540399E+22	7,540392E+22	5,793235E+22	5,793165E+22	1,508079E+23	1,158640E+23	2,666719E+23
723	7,540643E+22	7,540661E+22	5,793197E+22	5,793240E+22	1,508130E+23	1,158644E+23	2,666774E+23
724	7,540684E+22	7,540502E+22	5,793226E+22	5,793246E+22	1,508119E+23	1,158647E+23	2,666766E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,540347E+22	7,540557E+22	5,793315E+22	5,793299E+22	1,508090E+23	1,158661E+23	2,666752E+23
726	7,540712E+22	7,540747E+22	5,793301E+22	5,793408E+22	1,508146E+23	1,158671E+23	2,666817E+23
727	7,540518E+22	7,540440E+22	5,793482E+22	5,793393E+22	1,508096E+23	1,158687E+23	2,666783E+23
728	7,540405E+22	7,540595E+22	5,793563E+22	5,793443E+22	1,508100E+23	1,158701E+23	2,666801E+23
729	7,540751E+22	7,540620E+22	5,793523E+22	5,793542E+22	1,508137E+23	1,158707E+23	2,666844E+23
730	7,540378E+22	7,540395E+22	5,793588E+22	5,793583E+22	1,508077E+23	1,158717E+23	2,666794E+23
731	7,540486E+22	7,540661E+22	5,793567E+22	5,793618E+22	1,508115E+23	1,158718E+23	2,666833E+23
732	7,540676E+22	7,540520E+22	5,793535E+22	5,793561E+22	1,508120E+23	1,158710E+23	2,666829E+23
733	7,540365E+22	7,540430E+22	5,793545E+22	5,793471E+22	1,508079E+23	1,158702E+23	2,666781E+23
734	7,540714E+22	7,540685E+22	5,793441E+22	5,793483E+22	1,508140E+23	1,158692E+23	2,666832E+23
735	7,540591E+22	7,540457E+22	5,793461E+22	5,793385E+22	1,508105E+23	1,158685E+23	2,666789E+23
736	7,540326E+22	7,540604E+22	5,793433E+22	5,793341E+22	1,508093E+23	1,158677E+23	2,666770E+23
737	7,540671E+22	7,540727E+22	5,793322E+22	5,793384E+22	1,508140E+23	1,158671E+23	2,666810E+23
738	7,540387E+22	7,540388E+22	5,793361E+22	5,793327E+22	1,508077E+23	1,158669E+23	2,666746E+23
739	7,540432E+22	7,540572E+22	5,793375E+22	5,793300E+22	1,508100E+23	1,158667E+23	2,666768E+23
740	7,540736E+22	7,540513E+22	5,793312E+22	5,793309E+22	1,508125E+23	1,158662E+23	2,666787E+23
741	7,540394E+22	7,540360E+22	5,793312E+22	5,793297E+22	1,508075E+23	1,158661E+23	2,666736E+23
742	7,540615E+22	7,540697E+22	5,793281E+22	5,793409E+22	1,508131E+23	1,158669E+23	2,666800E+23
743	7,540594E+22	7,540508E+22	5,793373E+22	5,793409E+22	1,508110E+23	1,158678E+23	2,666788E+23
744	7,540303E+22	7,540525E+22	5,793499E+22	5,793395E+22	1,508083E+23	1,158689E+23	2,666772E+23
745	7,540687E+22	7,540700E+22	5,793522E+22	5,793522E+22	1,508139E+23	1,158704E+23	2,666843E+23
746	7,540486E+22	7,540353E+22	5,793636E+22	5,793565E+22	1,508084E+23	1,158720E+23	2,666804E+23
747	7,540372E+22	7,540540E+22	5,793717E+22	5,793621E+22	1,508091E+23	1,158734E+23	2,666825E+23
748	7,540660E+22	7,540611E+22	5,793658E+22	5,793743E+22	1,508127E+23	1,158740E+23	2,666867E+23
749	7,540334E+22	7,540357E+22	5,793682E+22	5,793711E+22	1,508069E+23	1,158739E+23	2,666808E+23
750	7,540506E+22	7,540637E+22	5,793674E+22	5,793732E+22	1,508114E+23	1,158741E+23	2,666855E+23
751	7,540657E+22	7,540479E+22	5,793679E+22	5,793669E+22	1,508114E+23	1,158735E+23	2,666848E+23
752	7,540357E+22	7,540419E+22	5,793684E+22	5,793548E+22	1,508078E+23	1,158723E+23	2,666801E+23
753	7,540655E+22	7,540706E+22	5,793586E+22	5,793604E+22	1,508136E+23	1,158719E+23	2,666855E+23
754	7,540492E+22	7,540431E+22	5,793559E+22	5,793556E+22	1,508092E+23	1,158712E+23	2,666804E+23
755	7,540286E+22	7,540530E+22	5,793576E+22	5,793474E+22	1,508082E+23	1,158705E+23	2,666787E+23
756	7,540629E+22	7,540634E+22	5,793473E+22	5,793510E+22	1,508126E+23	1,158698E+23	2,666825E+23
757	7,540412E+22	7,540285E+22	5,793454E+22	5,793413E+22	1,508070E+23	1,158687E+23	2,666756E+23
758	7,540480E+22	7,540538E+22	5,793445E+22	5,793424E+22	1,508102E+23	1,158687E+23	2,666789E+23
759	7,540667E+22	7,540523E+22	5,793416E+22	5,793469E+22	1,508119E+23	1,158688E+23	2,666807E+23
760	7,540325E+22	7,540413E+22	5,793440E+22	5,793417E+22	1,508074E+23	1,158686E+23	2,666759E+23
761	7,540543E+22	7,540718E+22	5,793476E+22	5,793531E+22	1,508126E+23	1,158701E+23	2,666827E+23
762	7,540540E+22	7,540447E+22	5,793559E+22	5,793561E+22	1,508099E+23	1,158712E+23	2,666811E+23
763	7,540308E+22	7,540425E+22	5,793716E+22	5,793539E+22	1,508073E+23	1,158725E+23	2,666799E+23
764	7,540628E+22	7,540635E+22	5,793713E+22	5,793716E+22	1,508126E+23	1,158743E+23	2,666869E+23
765	7,540438E+22	7,540304E+22	5,793734E+22	5,793754E+22	1,508074E+23	1,158749E+23	2,666823E+23
766	7,540342E+22	7,540527E+22	5,793794E+22	5,793821E+22	1,508087E+23	1,158762E+23	2,666848E+23
767	7,540600E+22	7,540573E+22	5,793788E+22	5,793903E+22	1,508117E+23	1,158769E+23	2,666886E+23
768	7,540351E+22	7,540320E+22	5,793820E+22	5,793771E+22	1,508067E+23	1,158759E+23	2,666826E+23
769	7,540528E+22	7,540616E+22	5,793839E+22	5,793793E+22	1,508114E+23	1,158763E+23	2,666878E+23
770	7,540636E+22	7,540450E+22	5,793796E+22	5,793785E+22	1,508109E+23	1,158758E+23	2,666867E+23
771	7,540314E+22	7,540400E+22	5,793825E+22	5,793675E+22	1,508071E+23	1,158750E+23	2,666821E+23
772	7,540530E+22	7,540710E+22	5,793732E+22	5,793761E+22	1,508124E+23	1,158749E+23	2,666873E+23
773	7,540430E+22	7,540362E+22	5,793659E+22	5,793673E+22	1,508079E+23	1,158733E+23	2,666812E+23

1	14	15	16	17	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							
774	7,540289E+22	7,540453E+22	5,793676E+22	5,793599E+22	1,508074E+23	1,158728E+23	2,666802E+23
775	7,540611E+22	7,540554E+22	5,793599E+22	5,793644E+22	1,508117E+23	1,158724E+23	2,666841E+23
776	7,540417E+22	7,540257E+22	5,793555E+22	5,793512E+22	1,508067E+23	1,158707E+23	2,666774E+23
777	7,540443E+22	7,540577E+22	5,793561E+22	5,793559E+22	1,508102E+23	1,158712E+23	2,666814E+23
778	7,540594E+22	7,540528E+22	5,793520E+22	5,793634E+22	1,508112E+23	1,158715E+23	2,666828E+23
779	7,540301E+22	7,540363E+22	5,793629E+22	5,793541E+22	1,508066E+23	1,158717E+23	2,666783E+23
780	7,540485E+22	7,540660E+22	5,793693E+22	5,793658E+22	1,508115E+23	1,158735E+23	2,666850E+23
781	7,540530E+22	7,540352E+22	5,793715E+22	5,793691E+22	1,508088E+23	1,158741E+23	2,666829E+23
782	7,540305E+22	7,540380E+22	5,793840E+22	5,793725E+22	1,508068E+23	1,158757E+23	2,666825E+23
783	7,540536E+22	7,540613E+22	5,793847E+22	5,793930E+22	1,508115E+23	1,158778E+23	2,666893E+23
784	7,540382E+22	7,540310E+22	5,793860E+22	5,793901E+22	1,508069E+23	1,158776E+23	2,666845E+23
785	7,540325E+22	7,540525E+22	5,793953E+22	5,793943E+22	1,508085E+23	1,158790E+23	2,666875E+23
786	7,540594E+22	7,540515E+22	5,793937E+22	5,794024E+22	1,508111E+23	1,158796E+23	2,666907E+23
787	7,540397E+22	7,540256E+22	5,794002E+22	5,793866E+22	1,508065E+23	1,158787E+23	2,666852E+23
788	7,540473E+22	7,540596E+22	5,794001E+22	5,793919E+22	1,508107E+23	1,158792E+23	2,666899E+23
789	7,540560E+22	7,540436E+22	5,793879E+22	5,793928E+22	1,508100E+23	1,158781E+23	2,666880E+23
790	7,540253E+22	7,540386E+22	5,793895E+22	5,793836E+22	1,508064E+23	1,158773E+23	2,666837E+23
791	7,540433E+22	7,540635E+22	5,793856E+22	5,793900E+22	1,508107E+23	1,158776E+23	2,666882E+23
792	7,540426E+22	7,540291E+22	5,793776E+22	5,793742E+22	1,508072E+23	1,158752E+23	2,666823E+23
793	7,540317E+22	7,540407E+22	5,793792E+22	5,793685E+22	1,508072E+23	1,158748E+23	2,666820E+23
794	7,540595E+22	7,540517E+22	5,793686E+22	5,793778E+22	1,508111E+23	1,158746E+23	2,666858E+23
795	7,540405E+22	7,540259E+22	5,793679E+22	5,793637E+22	1,508066E+23	1,158732E+23	2,666798E+23
796	7,540346E+22	7,540601E+22	5,793723E+22	5,793689E+22	1,508095E+23	1,158741E+23	2,666836E+23
797	7,540547E+22	7,540492E+22	5,793666E+22	5,793749E+22	1,508104E+23	1,158742E+23	2,666845E+23
798	7,540299E+22	7,540304E+22	5,793793E+22	5,793688E+22	1,508060E+23	1,158748E+23	2,666808E+23
799	7,540426E+22	7,540580E+22	5,793888E+22	5,793839E+22	1,508101E+23	1,158773E+23	2,666873E+23
800	7,540495E+22	7,540314E+22	5,793864E+22	5,793857E+22	1,508081E+23	1,158772E+23	2,666853E+23
801	7,540255E+22	7,540385E+22	5,793969E+22	5,793924E+22	1,508064E+23	1,158789E+23	2,666853E+23
802	7,540482E+22	7,540573E+22	5,793961E+22	5,794124E+22	1,508106E+23	1,158809E+23	2,666914E+23
803	7,540411E+22	7,540236E+22	5,794026E+22	5,794015E+22	1,508065E+23	1,158804E+23	2,666869E+23
804	7,540320E+22	7,540488E+22	5,794135E+22	5,794032E+22	1,508081E+23	1,158817E+23	2,666897E+23
805	7,540612E+22	7,540466E+22	5,794051E+22	5,794110E+22	1,508108E+23	1,158816E+23	2,666924E+23
806	7,540370E+22	7,540259E+22	5,794104E+22	5,794006E+22	1,508063E+23	1,158811E+23	2,666874E+23
807	7,540332E+22	7,540609E+22	5,794131E+22	5,794088E+22	1,508094E+23	1,158822E+23	2,666916E+23
808	7,540458E+22	7,540429E+22	5,793999E+22	5,794045E+22	1,508089E+23	1,158804E+23	2,666893E+23
809	7,540209E+22	7,540348E+22	5,794032E+22	5,793952E+22	1,508056E+23	1,158798E+23	2,666854E+23
810	7,540423E+22	7,540529E+22	5,793972E+22	5,794023E+22	1,508095E+23	1,158800E+23	2,666895E+23
811	7,540483E+22	7,540197E+22	5,793910E+22	5,793841E+22	1,508068E+23	1,158775E+23	2,666843E+23
812	7,540289E+22	7,540402E+22	5,793908E+22	5,793806E+22	1,508069E+23	1,158771E+23	2,666841E+23
813	7,540554E+22	7,540520E+22	5,793750E+22	5,793909E+22	1,508107E+23	1,158766E+23	2,666873E+23
814	7,540372E+22	7,540269E+22	5,793780E+22	5,793778E+22	1,508064E+23	1,158756E+23	2,666820E+23
815	7,540264E+22	7,540554E+22	5,793904E+22	5,793818E+22	1,508082E+23	1,158772E+23	2,666854E+23
816	7,540522E+22	7,540440E+22	5,793844E+22	5,793843E+22	1,508096E+23	1,158769E+23	2,666865E+23
817	7,540294E+22	7,540268E+22	5,793961E+22	5,793838E+22	1,508056E+23	1,158780E+23	2,666836E+23
818	7,540364E+22	7,540524E+22	5,794024E+22	5,794047E+22	1,508089E+23	1,158807E+23	2,666896E+23
819	7,540469E+22	7,540287E+22	5,794016E+22	5,794046E+22	1,508076E+23	1,158806E+23	2,666882E+23
820	7,540192E+22	7,540374E+22	5,794125E+22	5,794080E+22	1,508057E+23	1,158821E+23	2,666877E+23
821	7,540475E+22	7,540516E+22	5,794089E+22	5,794245E+22	1,508099E+23	1,158833E+23	2,666933E+23
822	7,540449E+22	7,540204E+22	5,794161E+22	5,794132E+22	1,508065E+23	1,158829E+23	2,666895E+23

1	14	15	16	17	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							
823	7,540270E+22	7,540446E+22	5,794305E+22	5,794165E+22	1,508072E+23	1,158847E+23	2,666919E+23
824	7,540546E+22	7,540478E+22	5,794182E+22	5,794235E+22	1,508102E+23	1,158842E+23	2,666944E+23
825	7,540286E+22	7,540286E+22	5,794219E+22	5,794173E+22	1,508057E+23	1,158839E+23	2,666896E+23
826	7,540231E+22	7,540540E+22	5,794250E+22	5,794254E+22	1,508077E+23	1,158850E+23	2,666928E+23
827	7,540466E+22	7,540318E+22	5,794149E+22	5,794145E+22	1,508078E+23	1,158829E+23	2,666908E+23
828	7,540212E+22	7,540267E+22	5,794167E+22	5,794031E+22	1,508048E+23	1,158820E+23	2,666868E+23
829	7,540461E+22	7,540455E+22	5,794039E+22	5,794114E+22	1,508092E+23	1,158815E+23	2,666907E+23
830	7,540492E+22	7,540212E+22	5,793969E+22	5,793963E+22	1,508070E+23	1,158793E+23	2,666864E+23
831	7,540189E+22	7,540436E+22	5,794027E+22	5,793945E+22	1,508062E+23	1,158797E+23	2,666860E+23
832	7,540476E+22	7,540547E+22	5,793889E+22	5,794002E+22	1,508102E+23	1,158789E+23	2,666891E+23
833	7,540327E+22	7,540266E+22	5,793958E+22	5,793906E+22	1,508059E+23	1,158786E+23	2,666846E+23
834	7,540218E+22	7,540464E+22	5,794089E+22	5,793982E+22	1,508068E+23	1,158807E+23	2,666875E+23
835	7,540528E+22	7,540339E+22	5,794032E+22	5,794008E+22	1,508087E+23	1,158804E+23	2,666891E+23
836	7,540230E+22	7,540244E+22	5,794110E+22	5,794029E+22	1,508047E+23	1,158814E+23	2,666861E+23
837	7,540328E+22	7,540481E+22	5,794098E+22	5,794237E+22	1,508081E+23	1,158833E+23	2,666914E+23
838	7,540460E+22	7,540257E+22	5,794117E+22	5,794206E+22	1,508072E+23	1,158832E+23	2,666904E+23
839	7,540159E+22	7,540328E+22	5,794295E+22	5,794203E+22	1,508049E+23	1,158850E+23	2,666898E+23
840	7,540481E+22	7,540486E+22	5,794248E+22	5,794314E+22	1,508097E+23	1,158856E+23	2,666953E+23
841	7,540438E+22	7,540221E+22	5,794318E+22	5,794255E+22	1,508066E+23	1,158857E+23	2,666923E+23
842	7,540176E+22	7,540431E+22	5,794447E+22	5,794338E+22	1,508061E+23	1,158878E+23	2,666939E+23
843	7,540472E+22	7,540452E+22	5,794341E+22	5,794387E+22	1,508092E+23	1,158873E+23	2,666965E+23
844	7,540195E+22	7,540254E+22	5,794380E+22	5,794307E+22	1,508045E+23	1,158869E+23	2,666914E+23
845	7,540223E+22	7,540430E+22	5,794355E+22	5,794370E+22	1,508065E+23	1,158873E+23	2,666938E+23
846	7,540511E+22	7,540242E+22	5,794248E+22	5,794258E+22	1,508075E+23	1,158851E+23	2,666926E+23
847	7,540195E+22	7,540221E+22	5,794278E+22	5,794155E+22	1,508042E+23	1,158843E+23	2,666885E+23
848	7,540421E+22	7,540484E+22	5,794114E+22	5,794218E+22	1,508091E+23	1,158833E+23	2,666924E+23
849	7,540437E+22	7,540281E+22	5,794058E+22	5,794100E+22	1,508072E+23	1,158816E+23	2,666888E+23
850	7,540103E+22	7,540395E+22	5,794171E+22	5,794081E+22	1,508050E+23	1,158825E+23	2,666875E+23
851	7,540466E+22	7,540471E+22	5,794085E+22	5,794098E+22	1,508094E+23	1,158818E+23	2,666912E+23
852	7,540299E+22	7,540200E+22	5,794141E+22	5,794019E+22	1,508050E+23	1,158816E+23	2,666866E+23
853	7,540200E+22	7,540366E+22	5,794201E+22	5,794145E+22	1,508057E+23	1,158835E+23	2,666891E+23
854	7,540500E+22	7,540321E+22	5,794127E+22	5,794199E+22	1,508082E+23	1,158833E+23	2,666915E+23
855	7,540140E+22	7,540229E+22	5,794238E+22	5,794213E+22	1,508037E+23	1,158845E+23	2,666882E+23
856	7,540288E+22	7,540471E+22	5,794235E+22	5,794352E+22	1,508076E+23	1,158859E+23	2,666935E+23
857	7,540470E+22	7,540262E+22	5,794276E+22	5,794326E+22	1,508073E+23	1,158860E+23	2,666933E+23
858	7,540141E+22	7,540263E+22	5,794484E+22	5,794341E+22	1,508040E+23	1,158882E+23	2,666923E+23
859	7,540475E+22	7,540441E+22	5,794446E+22	5,794448E+22	1,508092E+23	1,158889E+23	2,666981E+23
860	7,540342E+22	7,540234E+22	5,794485E+22	5,794424E+22	1,508058E+23	1,158891E+23	2,666948E+23
861	7,540097E+22	7,540377E+22	5,794548E+22	5,794522E+22	1,508047E+23	1,158907E+23	2,666954E+23
862	7,540439E+22	7,540385E+22	5,794453E+22	5,794536E+22	1,508082E+23	1,158899E+23	2,666981E+23
863	7,540165E+22	7,540166E+22	5,794517E+22	5,794424E+22	1,508033E+23	1,158894E+23	2,666927E+23
864	7,540249E+22	7,540371E+22	5,794449E+22	5,794439E+22	1,508062E+23	1,158889E+23	2,666951E+23
865	7,540521E+22	7,540268E+22	5,794327E+22	5,794372E+22	1,508079E+23	1,158870E+23	2,666949E+23
866	7,540131E+22	7,540237E+22	5,794376E+22	5,794297E+22	1,508037E+23	1,158867E+23	2,666904E+23
867	7,540368E+22	7,540486E+22	5,794256E+22	5,794320E+22	1,508085E+23	1,158858E+23	2,666943E+23
868	7,540350E+22	7,540284E+22	5,794236E+22	5,794198E+22	1,508063E+23	1,158843E+23	2,666907E+23
869	7,540082E+22	7,540297E+22	5,794309E+22	5,794200E+22	1,508038E+23	1,158851E+23	2,666889E+23
870	7,540461E+22	7,540377E+22	5,794229E+22	5,794238E+22	1,508084E+23	1,158847E+23	2,666931E+23
871	7,540242E+22	7,540136E+22	5,794288E+22	5,794202E+22	1,508038E+23	1,158849E+23	2,666887E+23

1	14	15	16	17	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							
872	7,540149E+22	7,540347E+22	5,794291E+22	5,794310E+22	1,508050E+23	1,158860E+23	2,666910E+23
873	7,540461E+22	7,540344E+22	5,794225E+22	5,794379E+22	1,508080E+23	1,158860E+23	2,666941E+23
874	7,540106E+22	7,540172E+22	5,794391E+22	5,794358E+22	1,508028E+23	1,158875E+23	2,666903E+23
875	7,540320E+22	7,540406E+22	5,794432E+22	5,794437E+22	1,508073E+23	1,158887E+23	2,666959E+23
876	7,540455E+22	7,540253E+22	5,794478E+22	5,794427E+22	1,508071E+23	1,158890E+23	2,666961E+23
877	7,540112E+22	7,540219E+22	5,794623E+22	5,794503E+22	1,508033E+23	1,158913E+23	2,666946E+23
878	7,540398E+22	7,540444E+22	5,794583E+22	5,794633E+22	1,508084E+23	1,158922E+23	2,667006E+23
879	7,540220E+22	7,540211E+22	5,794644E+22	5,794613E+22	1,508043E+23	1,158926E+23	2,666969E+23
880	7,540037E+22	7,540321E+22	5,794678E+22	5,794648E+22	1,508036E+23	1,158933E+23	2,666968E+23
881	7,540451E+22	7,540348E+22	5,794569E+22	5,794667E+22	1,508080E+23	1,158924E+23	2,667004E+23
882	7,540174E+22	7,540074E+22	5,794640E+22	5,794550E+22	1,508025E+23	1,158919E+23	2,666944E+23
883	7,540271E+22	7,540340E+22	5,794568E+22	5,794541E+22	1,508061E+23	1,158911E+23	2,666972E+23
884	7,540458E+22	7,540318E+22	5,794431E+22	5,794478E+22	1,508078E+23	1,158891E+23	2,666969E+23
885	7,540072E+22	7,540201E+22	5,794461E+22	5,794421E+22	1,508027E+23	1,158888E+23	2,666915E+23
886	7,540328E+22	7,540436E+22	5,794392E+22	5,794414E+22	1,508076E+23	1,158881E+23	2,666957E+23
887	7,540300E+22	7,540198E+22	5,794405E+22	5,794305E+22	1,508050E+23	1,158871E+23	2,666921E+23
888	7,540065E+22	7,540220E+22	5,794434E+22	5,794305E+22	1,508028E+23	1,158874E+23	2,666902E+23
889	7,540436E+22	7,540377E+22	5,794324E+22	5,794409E+22	1,508081E+23	1,158873E+23	2,666955E+23
890	7,540167E+22	7,540111E+22	5,794403E+22	5,794392E+22	1,508028E+23	1,158880E+23	2,666907E+23
891	7,540123E+22	7,540327E+22	5,794439E+22	5,794448E+22	1,508045E+23	1,158889E+23	2,666934E+23
892	7,540422E+22	7,540347E+22	5,794410E+22	5,794490E+22	1,508077E+23	1,158890E+23	2,666967E+23
893	7,540123E+22	7,540099E+22	5,794554E+22	5,794492E+22	1,508022E+23	1,158905E+23	2,666927E+23
894	7,540324E+22	7,540357E+22	5,794614E+22	5,794577E+22	1,508068E+23	1,158919E+23	2,666987E+23
895	7,540374E+22	7,540239E+22	5,794661E+22	5,794621E+22	1,508061E+23	1,158928E+23	2,666989E+23
896	7,540022E+22	7,540217E+22	5,794742E+22	5,794688E+22	1,508024E+23	1,158943E+23	2,666967E+23
897	7,540321E+22	7,540443E+22	5,794698E+22	5,794827E+22	1,508076E+23	1,158953E+23	2,667029E+23
898	7,540180E+22	7,540115E+22	5,794797E+22	5,794769E+22	1,508029E+23	1,158957E+23	2,666986E+23
899	7,540089E+22	7,540214E+22	5,794822E+22	5,794729E+22	1,508030E+23	1,158955E+23	2,666985E+23
900	7,540459E+22	7,540323E+22	5,794703E+22	5,794743E+22	1,508078E+23	1,158945E+23	2,667023E+23
901	7,540178E+22	7,540048E+22	5,794706E+22	5,794664E+22	1,508023E+23	1,158937E+23	2,666960E+23
902	7,540220E+22	7,540356E+22	5,794660E+22	5,794645E+22	1,508058E+23	1,158931E+23	2,666988E+23
903	7,540352E+22	7,540327E+22	5,794576E+22	5,794594E+22	1,508068E+23	1,158917E+23	2,666985E+23
904	7,540014E+22	7,540160E+22	5,794593E+22	5,794507E+22	1,508017E+23	1,158910E+23	2,666927E+23
905	7,540298E+22	7,540399E+22	5,794527E+22	5,794541E+22	1,508070E+23	1,158907E+23	2,666977E+23
906	7,540265E+22	7,540100E+22	5,794559E+22	5,794469E+22	1,508036E+23	1,158903E+23	2,666939E+23
907	7,540052E+22	7,540163E+22	5,794558E+22	5,794462E+22	1,508022E+23	1,158902E+23	2,666924E+23
908	7,540371E+22	7,540397E+22	5,794442E+22	5,794569E+22	1,508077E+23	1,158901E+23	2,666978E+23
909	7,540151E+22	7,540056E+22	5,794497E+22	5,794550E+22	1,508021E+23	1,158905E+23	2,666925E+23
910	7,540137E+22	7,540275E+22	5,794592E+22	5,794552E+22	1,508041E+23	1,158914E+23	2,666956E+23
911	7,540408E+22	7,540306E+22	5,794601E+22	5,794607E+22	1,508071E+23	1,158921E+23	2,666992E+23
912	7,540103E+22	7,540071E+22	5,794711E+22	5,794619E+22	1,508017E+23	1,158933E+23	2,666950E+23
913	7,540260E+22	7,540398E+22	5,794752E+22	5,794769E+22	1,508066E+23	1,158952E+23	2,667018E+23
914	7,540263E+22	7,540206E+22	5,794826E+22	5,794831E+22	1,508047E+23	1,158966E+23	2,667013E+23
915	7,539970E+22	7,540161E+22	5,794913E+22	5,794842E+22	1,508013E+23	1,158975E+23	2,666989E+23
916	7,540288E+22	7,540397E+22	5,794868E+22	5,794938E+22	1,508069E+23	1,158981E+23	2,667049E+23
917	7,540215E+22	7,539996E+22	5,794910E+22	5,794892E+22	1,508021E+23	1,158980E+23	2,667001E+23
918	7,540126E+22	7,540154E+22	5,794939E+22	5,794834E+22	1,508028E+23	1,158977E+23	2,667005E+23
919	7,540407E+22	7,540329E+22	5,794814E+22	5,794878E+22	1,508074E+23	1,158969E+23	2,667043E+23
920	7,540105E+22	7,540074E+22	5,794780E+22	5,794780E+22	1,508018E+23	1,158956E+23	2,666974E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
921	7,540150E+22	7,540382E+22	5,794757E+22	5,794763E+22	1,508053E+23	1,158952E+23	2,667005E+23
922	7,540289E+22	7,540246E+22	5,794738E+22	5,794704E+22	1,508054E+23	1,158944E+23	2,666998E+23
923	7,540020E+22	7,540070E+22	5,794749E+22	5,794596E+22	1,508009E+23	1,158934E+23	2,666943E+23
924	7,540262E+22	7,540366E+22	5,794670E+22	5,794657E+22	1,508063E+23	1,158933E+23	2,666996E+23
925	7,540238E+22	7,540047E+22	5,794637E+22	5,794648E+22	1,508029E+23	1,158929E+23	2,666957E+23
926	7,540020E+22	7,540147E+22	5,794658E+22	5,794613E+22	1,508017E+23	1,158927E+23	2,666944E+23
927	7,540309E+22	7,540384E+22	5,794595E+22	5,794713E+22	1,508069E+23	1,158931E+23	2,667000E+23
928	7,540146E+22	7,540029E+22	5,794637E+22	5,794652E+22	1,508017E+23	1,158929E+23	2,666946E+23
929	7,540142E+22	7,540265E+22	5,794748E+22	5,794681E+22	1,508041E+23	1,158943E+23	2,666984E+23
930	7,540368E+22	7,540257E+22	5,794799E+22	5,794782E+22	1,508063E+23	1,158958E+23	2,667021E+23
931	7,540059E+22	7,540050E+22	5,794875E+22	5,794795E+22	1,508011E+23	1,158967E+23	2,666978E+23
932	7,540145E+22	7,540405E+22	5,794916E+22	5,794947E+22	1,508055E+23	1,158986E+23	2,667041E+23
933	7,540222E+22	7,540111E+22	5,794952E+22	5,795011E+22	1,508033E+23	1,158996E+23	2,667030E+23
934	7,539992E+22	7,540048E+22	5,795057E+22	5,794953E+22	1,508004E+23	1,159001E+23	2,667005E+23
935	7,540294E+22	7,540324E+22	5,795019E+22	5,795050E+22	1,508062E+23	1,159007E+23	2,667069E+23
936	7,540225E+22	7,539980E+22	5,794992E+22	5,794990E+22	1,508021E+23	1,158998E+23	2,667019E+23
937	7,540083E+22	7,540222E+22	5,795010E+22	5,794967E+22	1,508031E+23	1,158998E+23	2,667028E+23
938	7,540305E+22	7,540342E+22	5,794949E+22	5,795018E+22	1,508065E+23	1,158997E+23	2,667062E+23
939	7,540043E+22	7,540058E+22	5,794936E+22	5,794877E+22	1,508010E+23	1,158981E+23	2,666991E+23
940	7,540080E+22	7,540355E+22	5,794937E+22	5,794852E+22	1,508044E+23	1,158979E+23	2,667022E+23
941	7,540285E+22	7,540124E+22	5,794865E+22	5,794845E+22	1,508041E+23	1,158971E+23	2,667012E+23
942	7,540028E+22	7,539981E+22	5,794868E+22	5,794736E+22	1,508001E+23	1,158960E+23	2,666961E+23
943	7,540207E+22	7,540342E+22	5,794773E+22	5,794833E+22	1,508055E+23	1,158961E+23	2,667015E+23
944	7,540194E+22	7,540041E+22	5,794696E+22	5,794794E+22	1,508024E+23	1,158949E+23	2,666972E+23
945	7,540011E+22	7,540161E+22	5,794750E+22	5,794739E+22	1,508017E+23	1,158949E+23	2,666966E+23
946	7,540301E+22	7,540313E+22	5,794769E+22	5,794817E+22	1,508061E+23	1,158959E+23	2,667020E+23
947	7,540164E+22	7,539987E+22	5,794819E+22	5,794742E+22	1,508015E+23	1,158956E+23	2,666971E+23
948	7,540084E+22	7,540282E+22	5,794933E+22	5,794806E+22	1,508037E+23	1,158974E+23	2,667011E+23
949	7,540288E+22	7,540215E+22	5,794935E+22	5,794985E+22	1,508050E+23	1,158992E+23	2,667042E+23
950	7,539988E+22	7,540008E+22	5,795037E+22	5,794977E+22	1,508000E+23	1,159001E+23	2,667001E+23
951	7,540069E+22	7,540343E+22	5,795094E+22	5,795120E+22	1,508041E+23	1,159021E+23	2,667063E+23
952	7,540217E+22	7,540038E+22	5,795078E+22	5,795143E+22	1,508025E+23	1,159022E+23	2,667048E+23
953	7,540025E+22	7,540023E+22	5,795161E+22	5,795090E+22	1,508005E+23	1,159025E+23	2,667030E+23
954	7,540274E+22	7,540283E+22	5,795161E+22	5,795202E+22	1,508056E+23	1,159036E+23	2,667092E+23
955	7,540186E+22	7,540015E+22	5,795105E+22	5,795117E+22	1,508020E+23	1,159022E+23	2,667042E+23
956	7,539985E+22	7,540271E+22	5,795149E+22	5,795077E+22	1,508026E+23	1,159023E+23	2,667048E+23
957	7,540253E+22	7,540267E+22	5,795081E+22	5,795143E+22	1,508052E+23	1,159022E+23	2,667074E+23
958	7,540046E+22	7,539951E+22	5,795093E+22	5,794964E+22	1,508000E+23	1,159006E+23	2,667005E+23
959	7,540048E+22	7,540266E+22	5,795088E+22	5,794974E+22	1,508031E+23	1,159006E+23	2,667038E+23
960	7,540265E+22	7,540079E+22	5,794935E+22	5,794979E+22	1,508034E+23	1,158991E+23	2,667026E+23
961	7,539996E+22	7,540005E+22	5,794910E+22	5,794893E+22	1,508000E+23	1,158980E+23	2,666981E+23
962	7,540146E+22	7,540320E+22	5,794896E+22	5,794981E+22	1,508047E+23	1,158988E+23	2,667034E+23
963	7,540185E+22	7,540035E+22	5,794831E+22	5,794877E+22	1,508022E+23	1,158971E+23	2,666993E+23
964	7,539981E+22	7,540157E+22	5,794937E+22	5,794813E+22	1,508014E+23	1,158975E+23	2,666989E+23
965	7,540292E+22	7,540235E+22	5,794936E+22	5,794959E+22	1,508053E+23	1,158990E+23	2,667042E+23
966	7,540137E+22	7,539933E+22	5,794995E+22	5,794906E+22	1,508007E+23	1,158990E+23	2,666997E+23
967	7,539969E+22	7,540267E+22	5,795100E+22	5,795024E+22	1,508024E+23	1,159012E+23	2,667036E+23
968	7,540201E+22	7,540179E+22	5,795044E+22	5,795178E+22	1,508038E+23	1,159022E+23	2,667060E+23
969	7,539969E+22	7,539966E+22	5,795148E+22	5,795141E+22	1,507993E+23	1,159029E+23	2,667022E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
970	7,540075E+22	7,540236E+22	5,795265E+22	5,795259E+22	1,508031E+23	1,159052E+23	2,667084E+23
971	7,540252E+22	7,540003E+22	5,795216E+22	5,795244E+22	1,508025E+23	1,159046E+23	2,667071E+23
972	7,539995E+22	7,540069E+22	5,795305E+22	5,795200E+22	1,508006E+23	1,159050E+23	2,667057E+23
973	7,540215E+22	7,540276E+22	5,795275E+22	5,795359E+22	1,508049E+23	1,159063E+23	2,667113E+23
974	7,540126E+22	7,540001E+22	5,795264E+22	5,795237E+22	1,508013E+23	1,159050E+23	2,667063E+23
975	7,539902E+22	7,540227E+22	5,795331E+22	5,795199E+22	1,508013E+23	1,159053E+23	2,667066E+23
976	7,540217E+22	7,540182E+22	5,795201E+22	5,795253E+22	1,508040E+23	1,159045E+23	2,667085E+23
977	7,540056E+22	7,539900E+22	5,795185E+22	5,795104E+22	1,507996E+23	1,159029E+23	2,667024E+23
978	7,540019E+22	7,540185E+22	5,795198E+22	5,795139E+22	1,508020E+23	1,159034E+23	2,667054E+23
979	7,540221E+22	7,540087E+22	5,795006E+22	5,795115E+22	1,508031E+23	1,159012E+23	2,667043E+23
980	7,539943E+22	7,540042E+22	5,795015E+22	5,794992E+22	1,507998E+23	1,159001E+23	2,666999E+23
981	7,540134E+22	7,540241E+22	5,795016E+22	5,795084E+22	1,508038E+23	1,159010E+23	2,667048E+23
982	7,540208E+22	7,539968E+22	5,795005E+22	5,794950E+22	1,508018E+23	1,158996E+23	2,667013E+23
983	7,539940E+22	7,540119E+22	5,795124E+22	5,794942E+22	1,508006E+23	1,159007E+23	2,667013E+23
984	7,540214E+22	7,540221E+22	5,795059E+22	5,795128E+22	1,508043E+23	1,159019E+23	2,667062E+23
985	7,540056E+22	7,539957E+22	5,795105E+22	5,795115E+22	1,508001E+23	1,159022E+23	2,667023E+23
986	7,539878E+22	7,540197E+22	5,795279E+22	5,795229E+22	1,508007E+23	1,159051E+23	2,667058E+23
987	7,540176E+22	7,540131E+22	5,795207E+22	5,795318E+22	1,508031E+23	1,159053E+23	2,667083E+23
988	7,539978E+22	7,539933E+22	5,795323E+22	5,795253E+22	1,507991E+23	1,159058E+23	2,667049E+23
989	7,540105E+22	7,540148E+22	5,795409E+22	5,795413E+22	1,508025E+23	1,159082E+23	2,667107E+23
990	7,540259E+22	7,539986E+22	5,795363E+22	5,795382E+22	1,508024E+23	1,159075E+23	2,667099E+23
991	7,539903E+22	7,540094E+22	5,795455E+22	5,795366E+22	1,508000E+23	1,159082E+23	2,667082E+23
992	7,540133E+22	7,540261E+22	5,795387E+22	5,795492E+22	1,508039E+23	1,159088E+23	2,667127E+23
993	7,540100E+22	7,539957E+22	5,795381E+22	5,795352E+22	1,508006E+23	1,159073E+23	2,667079E+23
994	7,539875E+22	7,540106E+22	5,795496E+22	5,795320E+22	1,507998E+23	1,159082E+23	2,667080E+23
995	7,540207E+22	7,540136E+22	5,795302E+22	5,795352E+22	1,508034E+23	1,159065E+23	2,667100E+23
996	7,540006E+22	7,539916E+22	5,795276E+22	5,795219E+22	1,507992E+23	1,159050E+23	2,667042E+23
997	7,539970E+22	7,540149E+22	5,795272E+22	5,795293E+22	1,508012E+23	1,159057E+23	2,667068E+23
998	7,540200E+22	7,540059E+22	5,795132E+22	5,795211E+22	1,508026E+23	1,159034E+23	2,667060E+23
999	7,539899E+22	7,540017E+22	5,795184E+22	5,795090E+22	1,507992E+23	1,159027E+23	2,667019E+23
1000	7,540116E+22	7,540188E+22	5,795149E+22	5,795179E+22	1,508030E+23	1,159033E+23	2,667063E+23
1001	7,540199E+22	7,539949E+22	5,795135E+22	5,795097E+22	1,508015E+23	1,159023E+23	2,667038E+23
1002	7,539862E+22	7,540066E+22	5,795294E+22	5,795148E+22	1,507993E+23	1,159044E+23	2,667037E+23
1003	7,540117E+22	7,540225E+22	5,795187E+22	5,795313E+22	1,508034E+23	1,159050E+23	2,667084E+23
1004	7,539991E+22	7,539945E+22	5,795264E+22	5,795274E+22	1,507994E+23	1,159054E+23	2,667047E+23
1005	7,539888E+22	7,540064E+22	5,795430E+22	5,795386E+22	1,507995E+23	1,159082E+23	2,667077E+23
1006	7,540233E+22	7,540035E+22	5,795382E+22	5,795425E+22	1,508027E+23	1,159081E+23	2,667108E+23
1007	7,539979E+22	7,539915E+22	5,795489E+22	5,795388E+22	1,507989E+23	1,159088E+23	2,667077E+23
1008	7,540058E+22	7,540158E+22	5,795510E+22	5,795558E+22	1,508022E+23	1,159107E+23	2,667128E+23
1009	7,540196E+22	7,540046E+22	5,795474E+22	5,795541E+22	1,508024E+23	1,159102E+23	2,667126E+23
1010	7,539813E+22	7,540050E+22	5,795635E+22	5,795520E+22	1,507986E+23	1,159116E+23	2,667102E+23
1011	7,540060E+22	7,540224E+22	5,795544E+22	5,795595E+22	1,508028E+23	1,159114E+23	2,667142E+23
1012	7,540072E+22	7,539916E+22	5,795538E+22	5,795458E+22	1,507999E+23	1,159100E+23	2,667098E+23
1013	7,539869E+22	7,539979E+22	5,795604E+22	5,795479E+22	1,507985E+23	1,159108E+23	2,667093E+23
1014	7,540196E+22	7,540088E+22	5,795402E+22	5,795491E+22	1,508028E+23	1,159089E+23	2,667118E+23
1015	7,539945E+22	7,539924E+22	5,795368E+22	5,795359E+22	1,507987E+23	1,159073E+23	2,667060E+23
1016	7,539935E+22	7,540118E+22	5,795341E+22	5,795387E+22	1,508005E+23	1,159073E+23	2,667078E+23
1017	7,540217E+22	7,540041E+22	5,795237E+22	5,795285E+22	1,508026E+23	1,159052E+23	2,667078E+23
1018	7,539888E+22	7,539938E+22	5,795364E+22	5,795197E+22	1,507983E+23	1,159056E+23	2,667039E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,540061E+22	7,540188E+22	5,795295E+22	5,795292E+22	1,508025E+23	1,159059E+23	2,667084E+23
1020	7,540116E+22	7,539984E+22	5,795287E+22	5,795258E+22	1,508010E+23	1,159055E+23	2,667065E+23
1021	7,539783E+22	7,539996E+22	5,795436E+22	5,795359E+22	1,507978E+23	1,159080E+23	2,667057E+23
1022	7,540092E+22	7,540150E+22	5,795364E+22	5,795468E+22	1,508024E+23	1,159083E+23	2,667107E+23
1023	7,539972E+22	7,539884E+22	5,795449E+22	5,795421E+22	1,507986E+23	1,159087E+23	2,667073E+23
1024	7,539916E+22	7,539992E+22	5,795555E+22	5,795523E+22	1,507991E+23	1,159108E+23	2,667099E+23
1025	7,540263E+22	7,540028E+22	5,795496E+22	5,795577E+22	1,508029E+23	1,159107E+23	2,667136E+23
1026	7,539916E+22	7,539909E+22	5,795648E+22	5,795577E+22	1,507982E+23	1,159123E+23	2,667105E+23
1027	7,539954E+22	7,540208E+22	5,795636E+22	5,795696E+22	1,508016E+23	1,159133E+23	2,667149E+23
1028	7,540116E+22	7,540047E+22	5,795641E+22	5,795658E+22	1,508016E+23	1,159130E+23	2,667146E+23
1029	7,539787E+22	7,539915E+22	5,795798E+22	5,795656E+22	1,507970E+23	1,159145E+23	2,667116E+23
1030	7,540074E+22	7,540110E+22	5,795700E+22	5,795695E+22	1,508018E+23	1,159139E+23	2,667158E+23
1031	7,540039E+22	7,539874E+22	5,795663E+22	5,795594E+22	1,507991E+23	1,159126E+23	2,667117E+23
1032	7,539831E+22	7,539956E+22	5,795643E+22	5,795618E+22	1,507979E+23	1,159126E+23	2,667105E+23
1033	7,540169E+22	7,540108E+22	5,795461E+22	5,795612E+22	1,508028E+23	1,159107E+23	2,667135E+23
1034	7,539904E+22	7,539888E+22	5,795514E+22	5,795466E+22	1,507979E+23	1,159098E+23	2,667077E+23
1035	7,539902E+22	7,540115E+22	5,795477E+22	5,795440E+22	1,508002E+23	1,159092E+23	2,667093E+23
1036	7,540202E+22	7,540039E+22	5,795406E+22	5,795373E+22	1,508024E+23	1,159078E+23	2,667102E+23
1037	7,539856E+22	7,539848E+22	5,795515E+22	5,795375E+22	1,507970E+23	1,159089E+23	2,667059E+23
1038	7,539995E+22	7,540151E+22	5,795446E+22	5,795471E+22	1,508015E+23	1,159092E+23	2,667106E+23
1039	7,540023E+22	7,539970E+22	5,795438E+22	5,795454E+22	1,507999E+23	1,159089E+23	2,667088E+23
1040	7,539758E+22	7,539901E+22	5,795539E+22	5,795513E+22	1,507966E+23	1,159105E+23	2,667071E+23
1041	7,540137E+22	7,540086E+22	5,795487E+22	5,795591E+22	1,508022E+23	1,159108E+23	2,667130E+23
1042	7,539996E+22	7,539814E+22	5,795611E+22	5,795566E+22	1,507981E+23	1,159117E+23	2,667098E+23
1043	7,539876E+22	7,540025E+22	5,795677E+22	5,795639E+22	1,507990E+23	1,159132E+23	2,667122E+23
1044	7,540188E+22	7,540111E+22	5,795647E+22	5,795724E+22	1,508030E+23	1,159137E+23	2,667167E+23
1045	7,539829E+22	7,539866E+22	5,795816E+22	5,795761E+22	1,507970E+23	1,159158E+23	2,667127E+23
1046	7,539893E+22	7,540146E+22	5,795842E+22	5,795822E+22	1,508004E+23	1,159166E+23	2,667170E+23
1047	7,540068E+22	7,539979E+22	5,795837E+22	5,795792E+22	1,508005E+23	1,159163E+23	2,667168E+23
1048	7,539789E+22	7,539798E+22	5,795904E+22	5,795793E+22	1,507959E+23	1,159170E+23	2,667128E+23
1049	7,540089E+22	7,540067E+22	5,795776E+22	5,795842E+22	1,508016E+23	1,159162E+23	2,667177E+23
1050	7,539991E+22	7,539852E+22	5,795755E+22	5,795762E+22	1,507984E+23	1,159152E+23	2,667136E+23
1051	7,539767E+22	7,539996E+22	5,795708E+22	5,795714E+22	1,507976E+23	1,159142E+23	2,667118E+23
1052	7,540149E+22	7,540124E+22	5,795587E+22	5,795677E+22	1,508027E+23	1,159126E+23	2,667154E+23
1053	7,539906E+22	7,539794E+22	5,795665E+22	5,795560E+22	1,507970E+23	1,159122E+23	2,667092E+23
1054	7,539901E+22	7,540056E+22	5,795647E+22	5,795521E+22	1,507996E+23	1,159117E+23	2,667113E+23
1055	7,540124E+22	7,540035E+22	5,795565E+22	5,795523E+22	1,508016E+23	1,159109E+23	2,667125E+23
1056	7,539778E+22	7,539819E+22	5,795604E+22	5,795562E+22	1,507960E+23	1,159117E+23	2,667076E+23
1057	7,539950E+22	7,540120E+22	5,795550E+22	5,795640E+22	1,508007E+23	1,159119E+23	2,667126E+23
1058	7,539978E+22	7,539891E+22	5,795601E+22	5,795621E+22	1,507987E+23	1,159122E+23	2,667109E+23
1059	7,539750E+22	7,539877E+22	5,795663E+22	5,795614E+22	1,507963E+23	1,159128E+23	2,667090E+23
1060	7,540157E+22	7,540073E+22	5,795643E+22	5,795710E+22	1,508023E+23	1,159135E+23	2,667158E+23
1061	7,539978E+22	7,539765E+22	5,795766E+22	5,795737E+22	1,507974E+23	1,159150E+23	2,667125E+23
1062	7,539819E+22	7,540033E+22	5,795843E+22	5,795793E+22	1,507985E+23	1,159164E+23	2,667149E+23
1063	7,540085E+22	7,540118E+22	5,795835E+22	5,795887E+22	1,508020E+23	1,159172E+23	2,667193E+23
1064	7,539789E+22	7,539773E+22	5,795959E+22	5,795904E+22	1,507956E+23	1,159186E+23	2,667142E+23
1065	7,539904E+22	7,540052E+22	5,795985E+22	5,795943E+22	1,507996E+23	1,159193E+23	2,667188E+23
1066	7,540053E+22	7,539890E+22	5,795987E+22	5,795947E+22	1,507994E+23	1,159193E+23	2,667188E+23
1067	7,539745E+22	7,539811E+22	5,795972E+22	5,795916E+22	1,507956E+23	1,159189E+23	2,667144E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,540046E+22	7,540117E+22	5,795867E+22	5,795973E+22	1,508016E+23	1,159184E+23	2,667200E+23
1069	7,539947E+22	7,539817E+22	5,795870E+22	5,795897E+22	1,507976E+23	1,159177E+23	2,667153E+23
1070	7,539749E+22	7,539965E+22	5,795869E+22	5,795780E+22	1,507971E+23	1,159165E+23	2,667136E+23
1071	7,540117E+22	7,540105E+22	5,795767E+22	5,795763E+22	1,508022E+23	1,159153E+23	2,667175E+23
1072	7,539895E+22	7,539709E+22	5,795778E+22	5,795688E+22	1,507960E+23	1,159147E+23	2,667107E+23
1073	7,539860E+22	7,540026E+22	5,795754E+22	5,795683E+22	1,507989E+23	1,159144E+23	2,667132E+23
1074	7,540025E+22	7,540005E+22	5,795684E+22	5,795726E+22	1,508003E+23	1,159141E+23	2,667144E+23
1075	7,539693E+22	7,539804E+22	5,795687E+22	5,795696E+22	1,507950E+23	1,159138E+23	2,667088E+23
1076	7,539953E+22	7,540077E+22	5,795689E+22	5,795750E+22	1,508003E+23	1,159144E+23	2,667147E+23
1077	7,540011E+22	7,539777E+22	5,795750E+22	5,795748E+22	1,507979E+23	1,159150E+23	2,667129E+23
1078	7,539778E+22	7,539838E+22	5,795828E+22	5,795714E+22	1,507962E+23	1,159154E+23	2,667116E+23
1079	7,540098E+22	7,540112E+22	5,795814E+22	5,795856E+22	1,508021E+23	1,159167E+23	2,667188E+23
1080	7,539903E+22	7,539763E+22	5,795895E+22	5,795914E+22	1,507967E+23	1,159181E+23	2,667147E+23
1081	7,539754E+22	7,540019E+22	5,796010E+22	5,795952E+22	1,507977E+23	1,159196E+23	2,667173E+23
1082	7,540009E+22	7,540046E+22	5,796042E+22	5,796061E+22	1,508005E+23	1,159210E+23	2,667216E+23
1083	7,539749E+22	7,539723E+22	5,796101E+22	5,796032E+22	1,507947E+23	1,159213E+23	2,667160E+23
1084	7,539912E+22	7,540004E+22	5,796123E+22	5,796093E+22	1,507992E+23	1,159222E+23	2,667213E+23
1085	7,540025E+22	7,539826E+22	5,796094E+22	5,796141E+22	1,507985E+23	1,159223E+23	2,667209E+23
1086	7,539716E+22	7,539819E+22	5,796070E+22	5,796048E+22	1,507954E+23	1,159212E+23	2,667165E+23
1087	7,539990E+22	7,540123E+22	5,796000E+22	5,796076E+22	1,508011E+23	1,159208E+23	2,667219E+23
1088	7,539947E+22	7,539752E+22	5,795976E+22	5,795975E+22	1,507970E+23	1,159195E+23	2,667165E+23
1089	7,539772E+22	7,539906E+22	5,795993E+22	5,795841E+22	1,507968E+23	1,159183E+23	2,667151E+23
1090	7,540055E+22	7,540052E+22	5,795914E+22	5,795892E+22	1,508011E+23	1,159181E+23	2,667191E+23
1091	7,539797E+22	7,539733E+22	5,795859E+22	5,795819E+22	1,507953E+23	1,159168E+23	2,667121E+23
1092	7,539785E+22	7,540027E+22	5,795863E+22	5,795842E+22	1,507981E+23	1,159171E+23	2,667152E+23
1093	7,539966E+22	7,539918E+22	5,795824E+22	5,795898E+22	1,507988E+23	1,159172E+23	2,667161E+23
1094	7,539704E+22	7,539738E+22	5,795840E+22	5,795793E+22	1,507944E+23	1,159163E+23	2,667108E+23
1095	7,539961E+22	7,540034E+22	5,795864E+22	5,795858E+22	1,507999E+23	1,159172E+23	2,667172E+23
1096	7,540031E+22	7,539721E+22	5,795869E+22	5,795893E+22	1,507975E+23	1,159176E+23	2,667151E+23
1097	7,539754E+22	7,539847E+22	5,795962E+22	5,795876E+22	1,507960E+23	1,159184E+23	2,667144E+23
1098	7,539982E+22	7,540124E+22	5,795986E+22	5,796062E+22	1,508011E+23	1,159205E+23	2,667215E+23
1099	7,539803E+22	7,539765E+22	5,796041E+22	5,796062E+22	1,507957E+23	1,159210E+23	2,667167E+23
1100	7,539731E+22	7,539961E+22	5,796194E+22	5,796096E+22	1,507969E+23	1,159229E+23	2,667198E+23
1101	7,540000E+22	7,539920E+22	5,796213E+22	5,796230E+22	1,507992E+23	1,159244E+23	2,667236E+23
1102	7,539756E+22	7,539668E+22	5,796240E+22	5,796168E+22	1,507942E+23	1,159241E+23	2,667183E+23
1103	7,539867E+22	7,540021E+22	5,796253E+22	5,796246E+22	1,507989E+23	1,159250E+23	2,667239E+23
1104	7,539994E+22	7,539806E+22	5,796165E+22	5,796284E+22	1,507980E+23	1,159245E+23	2,667225E+23
1105	7,539699E+22	7,539805E+22	5,796191E+22	5,796137E+22	1,507950E+23	1,159233E+23	2,667183E+23
1106	7,539942E+22	7,540085E+22	5,796162E+22	5,796171E+22	1,508003E+23	1,159233E+23	2,667236E+23
1107	7,539903E+22	7,539727E+22	5,796094E+22	5,796043E+22	1,507963E+23	1,159214E+23	2,667177E+23
1108	7,539746E+22	7,539876E+22	5,796128E+22	5,795970E+22	1,507962E+23	1,159210E+23	2,667172E+23
1109	7,539968E+22	7,539992E+22	5,796028E+22	5,796084E+22	1,507996E+23	1,159211E+23	2,667207E+23
1110	7,539733E+22	7,539708E+22	5,795967E+22	5,795968E+22	1,507944E+23	1,159194E+23	2,667138E+23
1111	7,539741E+22	7,539979E+22	5,796006E+22	5,795966E+22	1,507972E+23	1,159197E+23	2,667169E+23
1112	7,539996E+22	7,539808E+22	5,795928E+22	5,796007E+22	1,507980E+23	1,159194E+23	2,667174E+23
1113	7,539761E+22	7,539684E+22	5,795969E+22	5,795881E+22	1,507945E+23	1,159185E+23	2,667129E+23
1114	7,539922E+22	7,540026E+22	5,796017E+22	5,796007E+22	1,507995E+23	1,159202E+23	2,667197E+23
1115	7,539936E+22	7,539791E+22	5,795984E+22	5,796037E+22	1,507973E+23	1,159202E+23	2,667175E+23
1116	7,539676E+22	7,539879E+22	5,796130E+22	5,796055E+22	1,507956E+23	1,159219E+23	2,667174E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,539883E+22	7,540053E+22	5,796192E+22	5,796258E+22	1,507994E+23	1,159245E+23	2,667239E+23
1118	7,539784E+22	7,539694E+22	5,796243E+22	5,796206E+22	1,507948E+23	1,159245E+23	2,667193E+23
1119	7,539724E+22	7,539871E+22	5,796387E+22	5,796248E+22	1,507959E+23	1,159264E+23	2,667223E+23
1120	7,540012E+22	7,539826E+22	5,796318E+22	5,796409E+22	1,507984E+23	1,159273E+23	2,667257E+23
1121	7,539760E+22	7,539657E+22	5,796323E+22	5,796317E+22	1,507942E+23	1,159264E+23	2,667206E+23
1122	7,539791E+22	7,540017E+22	5,796364E+22	5,796400E+22	1,507981E+23	1,159276E+23	2,667257E+23
1123	7,539937E+22	7,539820E+22	5,796263E+22	5,796351E+22	1,507976E+23	1,159261E+23	2,667237E+23
1124	7,539709E+22	7,539768E+22	5,796335E+22	5,796206E+22	1,507948E+23	1,159254E+23	2,667202E+23
1125	7,539902E+22	7,539998E+22	5,796321E+22	5,796282E+22	1,507990E+23	1,159260E+23	2,667250E+23
1126	7,539862E+22	7,539706E+22	5,796225E+22	5,796154E+22	1,507957E+23	1,159238E+23	2,667195E+23
1127	7,539653E+22	7,539872E+22	5,796260E+22	5,796122E+22	1,507952E+23	1,159238E+23	2,667191E+23
1128	7,539906E+22	7,539930E+22	5,796113E+22	5,796249E+22	1,507984E+23	1,159236E+23	2,667220E+23
1129	7,539731E+22	7,539650E+22	5,796084E+22	5,796081E+22	1,507938E+23	1,159217E+23	2,667155E+23
1130	7,539726E+22	7,539918E+22	5,796153E+22	5,796095E+22	1,507964E+23	1,159225E+23	2,667189E+23
1131	7,539993E+22	7,539795E+22	5,796036E+22	5,796100E+22	1,507979E+23	1,159214E+23	2,667192E+23
1132	7,539764E+22	7,539694E+22	5,796107E+22	5,796032E+22	1,507946E+23	1,159214E+23	2,667160E+23
1133	7,539829E+22	7,540020E+22	5,796173E+22	5,796207E+22	1,507985E+23	1,159238E+23	2,667223E+23
1134	7,539858E+22	7,539794E+22	5,796156E+22	5,796199E+22	1,507965E+23	1,159235E+23	2,667201E+23
1135	7,539619E+22	7,539825E+22	5,796347E+22	5,796205E+22	1,507944E+23	1,159255E+23	2,667200E+23
1136	7,539889E+22	7,539914E+22	5,796343E+22	5,796407E+22	1,507980E+23	1,159275E+23	2,667255E+23
1137	7,539819E+22	7,539599E+22	5,796388E+22	5,796338E+22	1,507942E+23	1,159273E+23	2,667214E+23
1138	7,539686E+22	7,539839E+22	5,796514E+22	5,796427E+22	1,507952E+23	1,159294E+23	2,667247E+23
1139	7,539942E+22	7,539863E+22	5,796392E+22	5,796541E+22	1,507980E+23	1,159293E+23	2,667274E+23
1140	7,539730E+22	7,539686E+22	5,796447E+22	5,796448E+22	1,507942E+23	1,159289E+23	2,667231E+23
1141	7,539730E+22	7,539974E+22	5,796531E+22	5,796518E+22	1,507970E+23	1,159305E+23	2,667275E+23
1142	7,539921E+22	7,539792E+22	5,796435E+22	5,796424E+22	1,507971E+23	1,159286E+23	2,667257E+23
1143	7,539679E+22	7,539720E+22	5,796517E+22	5,796315E+22	1,507940E+23	1,159283E+23	2,667223E+23
1144	7,539851E+22	7,539919E+22	5,796419E+22	5,796447E+22	1,507977E+23	1,159287E+23	2,667264E+23
1145	7,539813E+22	7,539679E+22	5,796315E+22	5,796315E+22	1,507949E+23	1,159263E+23	2,667212E+23
1146	7,539572E+22	7,539827E+22	5,796361E+22	5,796293E+22	1,507940E+23	1,159265E+23	2,667205E+23
1147	7,539877E+22	7,539887E+22	5,796195E+22	5,796334E+22	1,507976E+23	1,159253E+23	2,667229E+23
1148	7,539791E+22	7,539603E+22	5,796198E+22	5,796166E+22	1,507939E+23	1,159236E+23	2,667176E+23
1149	7,539719E+22	7,539862E+22	5,796294E+22	5,796214E+22	1,507958E+23	1,159251E+23	2,667209E+23
1150	7,539970E+22	7,539831E+22	5,796175E+22	5,796216E+22	1,507980E+23	1,159239E+23	2,667219E+23
1151	7,539683E+22	7,539720E+22	5,796285E+22	5,796185E+22	1,507940E+23	1,159247E+23	2,667187E+23
1152	7,539741E+22	7,539964E+22	5,796330E+22	5,796383E+22	1,507971E+23	1,159271E+23	2,667242E+23
1153	7,539834E+22	7,539723E+22	5,796341E+22	5,796340E+22	1,507956E+23	1,159268E+23	2,667224E+23
1154	7,539578E+22	7,539721E+22	5,796531E+22	5,796379E+22	1,507930E+23	1,159291E+23	2,667221E+23
1155	7,539870E+22	7,539852E+22	5,796465E+22	5,796549E+22	1,507972E+23	1,159301E+23	2,667274E+23
1156	7,539832E+22	7,539587E+22	5,796495E+22	5,796518E+22	1,507942E+23	1,159301E+23	2,667243E+23
1157	7,539614E+22	7,539833E+22	5,796630E+22	5,796620E+22	1,507945E+23	1,159325E+23	2,667270E+23
1158	7,539901E+22	7,539886E+22	5,796526E+22	5,796656E+22	1,507979E+23	1,159318E+23	2,667297E+23
1159	7,539703E+22	7,539661E+22	5,796638E+22	5,796533E+22	1,507936E+23	1,159317E+23	2,667253E+23
1160	7,539721E+22	7,539880E+22	5,796676E+22	5,796615E+22	1,507960E+23	1,159329E+23	2,667289E+23
1161	7,539919E+22	7,539735E+22	5,796578E+22	5,796527E+22	1,507965E+23	1,159311E+23	2,667276E+23
1162	7,539589E+22	7,539693E+22	5,796639E+22	5,796490E+22	1,507928E+23	1,159313E+23	2,667241E+23
1163	7,539751E+22	7,539918E+22	5,796483E+22	5,796586E+22	1,507967E+23	1,159307E+23	2,667274E+23
1164	7,539788E+22	7,539659E+22	5,796411E+22	5,796457E+22	1,507945E+23	1,159287E+23	2,667231E+23
1165	7,539547E+22	7,539755E+22	5,796489E+22	5,796418E+22	1,507930E+23	1,159291E+23	2,667221E+23

1	14	15	16	17	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							
1166	7,539910E+22	7,539845E+22	5,796330E+22	5,796402E+22	1,507976E+23	1,159273E+23	2,667249E+23
1167	7,539806E+22	7,539585E+22	5,796366E+22	5,796263E+22	1,507939E+23	1,159263E+23	2,667202E+23
1168	7,539686E+22	7,539829E+22	5,796401E+22	5,796361E+22	1,507952E+23	1,159276E+23	2,667228E+23
1169	7,539905E+22	7,539833E+22	5,796311E+22	5,796369E+22	1,507974E+23	1,159268E+23	2,667242E+23
1170	7,539578E+22	7,539685E+22	5,796455E+22	5,796372E+22	1,507926E+23	1,159283E+23	2,667209E+23
1171	7,539680E+22	7,539889E+22	5,796473E+22	5,796505E+22	1,507957E+23	1,159298E+23	2,667255E+23
1172	7,539861E+22	7,539646E+22	5,796493E+22	5,796489E+22	1,507951E+23	1,159298E+23	2,667249E+23
1173	7,539557E+22	7,539646E+22	5,796673E+22	5,796559E+22	1,507920E+23	1,159323E+23	2,667243E+23
1174	7,539846E+22	7,539869E+22	5,796588E+22	5,796698E+22	1,507972E+23	1,159329E+23	2,667300E+23
1175	7,539780E+22	7,539626E+22	5,796654E+22	5,796665E+22	1,507941E+23	1,159332E+23	2,667272E+23
1176	7,539568E+22	7,539797E+22	5,796768E+22	5,796758E+22	1,507936E+23	1,159353E+23	2,667289E+23
1177	7,539896E+22	7,539848E+22	5,796708E+22	5,796753E+22	1,507974E+23	1,159346E+23	2,667320E+23
1178	7,539660E+22	7,539599E+22	5,796820E+22	5,796673E+22	1,507926E+23	1,159349E+23	2,667275E+23
1179	7,539663E+22	7,539830E+22	5,796794E+22	5,796736E+22	1,507949E+23	1,159353E+23	2,667302E+23
1180	7,539887E+22	7,539721E+22	5,796668E+22	5,796704E+22	1,507961E+23	1,159337E+23	2,667298E+23
1181	7,539497E+22	7,539648E+22	5,796730E+22	5,796678E+22	1,507914E+23	1,159341E+23	2,667255E+23
1182	7,539731E+22	7,539888E+22	5,796586E+22	5,796687E+22	1,507962E+23	1,159327E+23	2,667289E+23
1183	7,539814E+22	7,539601E+22	5,796551E+22	5,796518E+22	1,507942E+23	1,159307E+23	2,667248E+23
1184	7,539581E+22	7,539666E+22	5,796588E+22	5,796494E+22	1,507925E+23	1,159308E+23	2,667233E+23
1185	7,539931E+22	7,539830E+22	5,796451E+22	5,796482E+22	1,507976E+23	1,159293E+23	2,667269E+23
1186	7,539711E+22	7,539605E+22	5,796498E+22	5,796423E+22	1,507932E+23	1,159292E+23	2,667224E+23
1187	7,539559E+22	7,539848E+22	5,796520E+22	5,796499E+22	1,507941E+23	1,159302E+23	2,667243E+23
1188	7,539846E+22	7,539815E+22	5,796466E+22	5,796537E+22	1,507966E+23	1,159300E+23	2,667266E+23
1189	7,539512E+22	7,539594E+22	5,796639E+22	5,796551E+22	1,507911E+23	1,159319E+23	2,667229E+23
1190	7,539686E+22	7,539817E+22	5,796641E+22	5,796643E+22	1,507950E+23	1,159328E+23	2,667279E+23
1191	7,539866E+22	7,539601E+22	5,796665E+22	5,796651E+22	1,507947E+23	1,159332E+23	2,667278E+23
1192	7,539535E+22	7,539610E+22	5,796771E+22	5,796751E+22	1,507915E+23	1,159352E+23	2,667267E+23
1193	7,539823E+22	7,539872E+22	5,796721E+22	5,796851E+22	1,507970E+23	1,159357E+23	2,667327E+23
1194	7,539717E+22	7,539613E+22	5,796826E+22	5,796815E+22	1,507933E+23	1,159364E+23	2,667297E+23
1195	7,539536E+22	7,539747E+22	5,796917E+22	5,796836E+22	1,507928E+23	1,159375E+23	2,667304E+23
1196	7,539907E+22	7,539803E+22	5,796858E+22	5,796872E+22	1,507971E+23	1,159373E+23	2,667344E+23
1197	7,539597E+22	7,539550E+22	5,796963E+22	5,796843E+22	1,507915E+23	1,159381E+23	2,667295E+23
1198	7,539596E+22	7,539824E+22	5,796902E+22	5,796877E+22	1,507942E+23	1,159378E+23	2,667320E+23
1199	7,539818E+22	7,539716E+22	5,796803E+22	5,796843E+22	1,507953E+23	1,159365E+23	2,667318E+23
1200	7,539475E+22	7,539572E+22	5,796815E+22	5,796796E+22	1,507905E+23	1,159361E+23	2,667266E+23
1201	7,539761E+22	7,539815E+22	5,796712E+22	5,796756E+22	1,507958E+23	1,159347E+23	2,667304E+23
1202	7,539803E+22	7,539562E+22	5,796686E+22	5,796625E+22	1,507937E+23	1,159331E+23	2,667268E+23
1203	7,539544E+22	7,539649E+22	5,796680E+22	5,796587E+22	1,507919E+23	1,159327E+23	2,667246E+23
1204	7,539878E+22	7,539865E+22	5,796550E+22	5,796643E+22	1,507974E+23	1,159319E+23	2,667294E+23
1205	7,539590E+22	7,539594E+22	5,796636E+22	5,796616E+22	1,507918E+23	1,159325E+23	2,667244E+23
1206	7,539495E+22	7,539802E+22	5,796683E+22	5,796628E+22	1,507930E+23	1,159331E+23	2,667261E+23
1207	7,539834E+22	7,539736E+22	5,796665E+22	5,796659E+22	1,507957E+23	1,159332E+23	2,667289E+23
1208	7,539531E+22	7,539475E+22	5,796766E+22	5,796702E+22	1,507901E+23	1,159347E+23	2,667247E+23
1209	7,539712E+22	7,539765E+22	5,796779E+22	5,796791E+22	1,507948E+23	1,159357E+23	2,667305E+23
1210	7,539804E+22	7,539619E+22	5,796797E+22	5,796841E+22	1,507942E+23	1,159364E+23	2,667306E+23
1211	7,539465E+22	7,539625E+22	5,796891E+22	5,796885E+22	1,507909E+23	1,159378E+23	2,667287E+23
1212	7,539806E+22	7,539878E+22	5,796882E+22	5,796989E+22	1,507968E+23	1,159387E+23	2,667355E+23
1213	7,539663E+22	7,539557E+22	5,797025E+22	5,796964E+22	1,507922E+23	1,159399E+23	2,667321E+23
1214	7,539514E+22	7,539704E+22	5,797100E+22	5,796954E+22	1,507922E+23	1,159405E+23	2,667327E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1215	7,539865E+22	7,539770E+22	5,797024E+22	5,797023E+22	1,507964E+23	1,159405E+23	2,667368E+23
1216	7,539526E+22	7,539492E+22	5,797041E+22	5,797034E+22	1,507902E+23	1,159407E+23	2,667309E+23
1217	7,539564E+22	7,539775E+22	5,797002E+22	5,797017E+22	1,507934E+23	1,159402E+23	2,667336E+23
1218	7,539777E+22	7,539658E+22	5,796918E+22	5,796963E+22	1,507943E+23	1,159388E+23	2,667332E+23
1219	7,539485E+22	7,539508E+22	5,796901E+22	5,796843E+22	1,507899E+23	1,159374E+23	2,667274E+23
1220	7,539801E+22	7,539798E+22	5,796804E+22	5,796839E+22	1,507960E+23	1,159364E+23	2,667324E+23
1221	7,539736E+22	7,539568E+22	5,796806E+22	5,796760E+22	1,507930E+23	1,159357E+23	2,667287E+23
1222	7,539456E+22	7,539690E+22	5,796807E+22	5,796708E+22	1,507915E+23	1,159352E+23	2,667266E+23
1223	7,539778E+22	7,539870E+22	5,796731E+22	5,796781E+22	1,507965E+23	1,159351E+23	2,667316E+23
1224	7,539534E+22	7,539504E+22	5,796787E+22	5,796777E+22	1,507904E+23	1,159356E+23	2,667260E+23
1225	7,539514E+22	7,539686E+22	5,796863E+22	5,796761E+22	1,507920E+23	1,159362E+23	2,667282E+23
1226	7,539821E+22	7,539656E+22	5,796830E+22	5,796836E+22	1,507948E+23	1,159367E+23	2,667314E+23
1227	7,539520E+22	7,539437E+22	5,796859E+22	5,796854E+22	1,507896E+23	1,159371E+23	2,667267E+23
1228	7,539696E+22	7,539794E+22	5,796872E+22	5,796981E+22	1,507949E+23	1,159385E+23	2,667334E+23
1229	7,539726E+22	7,539633E+22	5,796948E+22	5,797024E+22	1,507936E+23	1,159397E+23	2,667333E+23
1230	7,539438E+22	7,539605E+22	5,797072E+22	5,796983E+22	1,507904E+23	1,159406E+23	2,667310E+23
1231	7,539783E+22	7,539835E+22	5,797104E+22	5,797087E+22	1,507962E+23	1,159419E+23	2,667381E+23
1232	7,539641E+22	7,539474E+22	5,797171E+22	5,797113E+22	1,507912E+23	1,159428E+23	2,667340E+23
1233	7,539478E+22	7,539642E+22	5,797242E+22	5,797109E+22	1,507912E+23	1,159435E+23	2,667347E+23
1234	7,539754E+22	7,539758E+22	5,797146E+22	5,797215E+22	1,507951E+23	1,159436E+23	2,667387E+23
1235	7,539464E+22	7,539451E+22	5,797115E+22	5,797156E+22	1,507891E+23	1,159427E+23	2,667319E+23
1236	7,539577E+22	7,539738E+22	5,797096E+22	5,797127E+22	1,507932E+23	1,159422E+23	2,667354E+23
1237	7,539764E+22	7,539608E+22	5,797048E+22	5,797067E+22	1,507937E+23	1,159412E+23	2,667349E+23
1238	7,539492E+22	7,539488E+22	5,797029E+22	5,796909E+22	1,507898E+23	1,159394E+23	2,667292E+23
1239	7,539755E+22	7,539817E+22	5,796953E+22	5,796946E+22	1,507957E+23	1,159390E+23	2,667347E+23
1240	7,539650E+22	7,539550E+22	5,796906E+22	5,796928E+22	1,507920E+23	1,159383E+23	2,667303E+23
1241	7,539403E+22	7,539630E+22	5,796961E+22	5,796850E+22	1,507903E+23	1,159381E+23	2,667284E+23
1242	7,539712E+22	7,539789E+22	5,796902E+22	5,796929E+22	1,507950E+23	1,159383E+23	2,667333E+23
1243	7,539537E+22	7,539397E+22	5,796904E+22	5,796887E+22	1,507893E+23	1,159379E+23	2,667272E+23
1244	7,539560E+22	7,539637E+22	5,796964E+22	5,796914E+22	1,507920E+23	1,159388E+23	2,667308E+23
1245	7,539771E+22	7,539648E+22	5,796951E+22	5,797023E+22	1,507942E+23	1,159397E+23	2,667339E+23
1246	7,539467E+22	7,539487E+22	5,796992E+22	5,796993E+22	1,507895E+23	1,159399E+23	2,667294E+23
1247	7,539637E+22	7,539824E+22	5,797063E+22	5,797106E+22	1,507946E+23	1,159417E+23	2,667363E+23
1248	7,539676E+22	7,539576E+22	5,797128E+22	5,797170E+22	1,507925E+23	1,159430E+23	2,667355E+23
1249	7,539438E+22	7,539521E+22	5,797287E+22	5,797114E+22	1,507896E+23	1,159440E+23	2,667336E+23
1250	7,539716E+22	7,539769E+22	5,797292E+22	5,797266E+22	1,507948E+23	1,159456E+23	2,667404E+23
1251	7,539581E+22	7,539421E+22	5,797271E+22	5,797287E+22	1,507900E+23	1,159456E+23	2,667356E+23
1252	7,539442E+22	7,539626E+22	5,797314E+22	5,797303E+22	1,507907E+23	1,159462E+23	2,667368E+23
1253	7,539686E+22	7,539713E+22	5,797260E+22	5,797376E+22	1,507940E+23	1,159464E+23	2,667403E+23
1254	7,539477E+22	7,539411E+22	5,797236E+22	5,797211E+22	1,507889E+23	1,159445E+23	2,667334E+23
1255	7,539608E+22	7,539705E+22	5,797245E+22	5,797174E+22	1,507931E+23	1,159442E+23	2,667373E+23
1256	7,539758E+22	7,539572E+22	5,797154E+22	5,797167E+22	1,507933E+23	1,159432E+23	2,667365E+23
1257	7,539462E+22	7,539478E+22	5,797163E+22	5,797025E+22	1,507894E+23	1,159419E+23	2,667313E+23
1258	7,539619E+22	7,539830E+22	5,797101E+22	5,797104E+22	1,507945E+23	1,159421E+23	2,667366E+23
1259	7,539568E+22	7,539502E+22	5,797025E+22	5,797059E+22	1,507907E+23	1,159408E+23	2,667315E+23
1260	7,539396E+22	7,539566E+22	5,797089E+22	5,797000E+22	1,507895E+23	1,159409E+23	2,667304E+23
1261	7,539688E+22	7,539703E+22	5,797056E+22	5,797094E+22	1,507939E+23	1,159415E+23	2,667354E+23
1262	7,539554E+22	7,539355E+22	5,797023E+22	5,797008E+22	1,507891E+23	1,159403E+23	2,667294E+23
1263	7,539535E+22	7,539653E+22	5,797094E+22	5,797065E+22	1,507919E+23	1,159416E+23	2,667335E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,539712E+22	7,539653E+22	5,797054E+22	5,797201E+22	1,507936E+23	1,159425E+23	2,667362E+23
1265	7,539445E+22	7,539444E+22	5,797174E+22	5,797122E+22	1,507889E+23	1,159430E+23	2,667319E+23
1266	7,539572E+22	7,539773E+22	5,797281E+22	5,797233E+22	1,507935E+23	1,159451E+23	2,667386E+23
1267	7,539662E+22	7,539491E+22	5,797286E+22	5,797286E+22	1,507915E+23	1,159457E+23	2,667372E+23
1268	7,539433E+22	7,539471E+22	5,797418E+22	5,797290E+22	1,507890E+23	1,159471E+23	2,667361E+23
1269	7,539618E+22	7,539745E+22	5,797426E+22	5,797473E+22	1,507936E+23	1,159490E+23	2,667426E+23
1270	7,539514E+22	7,539422E+22	5,797385E+22	5,797430E+22	1,507894E+23	1,159482E+23	2,667375E+23
1271	7,539414E+22	7,539613E+22	5,797460E+22	5,797418E+22	1,507903E+23	1,159488E+23	2,667390E+23
1272	7,539685E+22	7,539644E+22	5,797384E+22	5,797486E+22	1,507933E+23	1,159487E+23	2,667420E+23
1273	7,539525E+22	7,539343E+22	5,797396E+22	5,797289E+22	1,507887E+23	1,159468E+23	2,667355E+23
1274	7,539562E+22	7,539689E+22	5,797395E+22	5,797287E+22	1,507925E+23	1,159468E+23	2,667393E+23
1275	7,539689E+22	7,539568E+22	5,797235E+22	5,797298E+22	1,507926E+23	1,159453E+23	2,667379E+23
1276	7,539403E+22	7,539484E+22	5,797247E+22	5,797197E+22	1,507889E+23	1,159444E+23	2,667333E+23
1277	7,539518E+22	7,539768E+22	5,797240E+22	5,797264E+22	1,507929E+23	1,159450E+23	2,667379E+23
1278	7,539553E+22	7,539431E+22	5,797163E+22	5,797147E+22	1,507898E+23	1,159431E+23	2,667329E+23
1279	7,539424E+22	7,539496E+22	5,797224E+22	5,797098E+22	1,507892E+23	1,159432E+23	2,667324E+23
1280	7,539680E+22	7,539639E+22	5,797153E+22	5,797242E+22	1,507932E+23	1,159439E+23	2,667371E+23
1281	7,539545E+22	7,539349E+22	5,797154E+22	5,797147E+22	1,507889E+23	1,159430E+23	2,667319E+23
1282	7,539442E+22	7,539678E+22	5,797253E+22	5,797212E+22	1,507912E+23	1,159447E+23	2,667358E+23
1283	7,539660E+22	7,539625E+22	5,797206E+22	5,797322E+22	1,507928E+23	1,159453E+23	2,667381E+23
1284	7,539446E+22	7,539400E+22	5,797348E+22	5,797271E+22	1,507885E+23	1,159462E+23	2,667346E+23
1285	7,539508E+22	7,539699E+22	5,797487E+22	5,797409E+22	1,507921E+23	1,159490E+23	2,667410E+23
1286	7,539623E+22	7,539454E+22	5,797448E+22	5,797444E+22	1,507908E+23	1,159489E+23	2,667397E+23
1287	7,539380E+22	7,539466E+22	5,797553E+22	5,797479E+22	1,507885E+23	1,159503E+23	2,667388E+23
1288	7,539553E+22	7,539698E+22	5,797529E+22	5,797668E+22	1,507925E+23	1,159520E+23	2,667445E+23
1289	7,539533E+22	7,539352E+22	5,797532E+22	5,797544E+22	1,507888E+23	1,159508E+23	2,667396E+23
1290	7,539404E+22	7,539564E+22	5,797618E+22	5,797504E+22	1,507897E+23	1,159512E+23	2,667409E+23
1291	7,539710E+22	7,539594E+22	5,797486E+22	5,797557E+22	1,507930E+23	1,159504E+23	2,667435E+23
1292	7,539524E+22	7,539347E+22	5,797488E+22	5,797414E+22	1,507887E+23	1,159490E+23	2,667377E+23
1293	7,539435E+22	7,539711E+22	5,797522E+22	5,797447E+22	1,507915E+23	1,159497E+23	2,667412E+23
1294	7,539590E+22	7,539578E+22	5,797353E+22	5,797409E+22	1,507917E+23	1,159476E+23	2,667393E+23
1295	7,539344E+22	7,539444E+22	5,797395E+22	5,797315E+22	1,507879E+23	1,159471E+23	2,667350E+23
1296	7,539494E+22	7,539661E+22	5,797368E+22	5,797397E+22	1,507915E+23	1,159477E+23	2,667392E+23
1297	7,539601E+22	7,539322E+22	5,797307E+22	5,797260E+22	1,507892E+23	1,159457E+23	2,667349E+23
1298	7,539396E+22	7,539468E+22	5,797353E+22	5,797238E+22	1,507886E+23	1,159459E+23	2,667345E+23
1299	7,539649E+22	7,539634E+22	5,797223E+22	5,797386E+22	1,507928E+23	1,159461E+23	2,667389E+23
1300	7,539519E+22	7,539368E+22	5,797259E+22	5,797305E+22	1,507889E+23	1,159456E+23	2,667345E+23
1301	7,539362E+22	7,539646E+22	5,797441E+22	5,797353E+22	1,507901E+23	1,159479E+23	2,667380E+23
1302	7,539635E+22	7,539582E+22	5,797395E+22	5,797416E+22	1,507922E+23	1,159481E+23	2,667403E+23
1303	7,539434E+22	7,539362E+22	5,797538E+22	5,797416E+22	1,507880E+23	1,159495E+23	2,667375E+23
1304	7,539446E+22	7,539639E+22	5,797630E+22	5,797614E+22	1,507908E+23	1,159524E+23	2,667433E+23
1305	7,539581E+22	7,539421E+22	5,797601E+22	5,797634E+22	1,507900E+23	1,159524E+23	2,667424E+23
1306	7,539301E+22	7,539455E+22	5,797704E+22	5,797648E+22	1,507876E+23	1,159535E+23	2,667411E+23
1307	7,539543E+22	7,539635E+22	5,797647E+22	5,797790E+22	1,507918E+23	1,159544E+23	2,667462E+23
1308	7,539580E+22	7,539322E+22	5,797656E+22	5,797659E+22	1,507890E+23	1,159531E+23	2,667422E+23
1309	7,539377E+22	7,539523E+22	5,797769E+22	5,797622E+22	1,507890E+23	1,159539E+23	2,667429E+23
1310	7,539661E+22	7,539606E+22	5,797606E+22	5,797657E+22	1,507927E+23	1,159526E+23	2,667453E+23
1311	7,539448E+22	7,539385E+22	5,797597E+22	5,797557E+22	1,507883E+23	1,159515E+23	2,667399E+23
1312	7,539325E+22	7,539652E+22	5,797631E+22	5,797605E+22	1,507898E+23	1,159524E+23	2,667421E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,539573E+22	7,539475E+22	5,797510E+22	5,797513E+22	1,507905E+23	1,159502E+23	2,667407E+23
1314	7,539332E+22	7,539354E+22	5,797539E+22	5,797407E+22	1,507869E+23	1,159495E+23	2,667363E+23
1315	7,539527E+22	7,539566E+22	5,797447E+22	5,797498E+22	1,507909E+23	1,159495E+23	2,667404E+23
1316	7,539620E+22	7,539327E+22	5,797374E+22	5,797400E+22	1,507895E+23	1,159477E+23	2,667372E+23
1317	7,539303E+22	7,539499E+22	5,797470E+22	5,797394E+22	1,507880E+23	1,159486E+23	2,667367E+23
1318	7,539574E+22	7,539670E+22	5,797369E+22	5,797491E+22	1,507924E+23	1,159486E+23	2,667410E+23
1319	7,539476E+22	7,539371E+22	5,797450E+22	5,797434E+22	1,507885E+23	1,159488E+23	2,667373E+23
1320	7,539309E+22	7,539563E+22	5,797639E+22	5,797518E+22	1,507887E+23	1,159516E+23	2,667403E+23
1321	7,539633E+22	7,539490E+22	5,797603E+22	5,797582E+22	1,507912E+23	1,159519E+23	2,667431E+23
1322	7,539363E+22	7,539327E+22	5,797706E+22	5,797618E+22	1,507869E+23	1,159532E+23	2,667401E+23
1323	7,539402E+22	7,539593E+22	5,797719E+22	5,797818E+22	1,507899E+23	1,159554E+23	2,667453E+23
1324	7,539576E+22	7,539391E+22	5,797699E+22	5,797812E+22	1,507897E+23	1,159551E+23	2,667448E+23
1325	7,539272E+22	7,539404E+22	5,797857E+22	5,797778E+22	1,507868E+23	1,159563E+23	2,667431E+23
1326	7,539565E+22	7,539601E+22	5,797782E+22	5,797842E+22	1,507917E+23	1,159562E+23	2,667479E+23
1327	7,539581E+22	7,539326E+22	5,797792E+22	5,797751E+22	1,507891E+23	1,159554E+23	2,667445E+23
1328	7,539294E+22	7,539512E+22	5,797892E+22	5,797765E+22	1,507881E+23	1,159566E+23	2,667446E+23
1329	7,539584E+22	7,539589E+22	5,797750E+22	5,797787E+22	1,507917E+23	1,159554E+23	2,667471E+23
1330	7,539338E+22	7,539358E+22	5,797755E+22	5,797687E+22	1,507870E+23	1,159544E+23	2,667414E+23
1331	7,539300E+22	7,539544E+22	5,797740E+22	5,797723E+22	1,507884E+23	1,159546E+23	2,667431E+23
1332	7,539607E+22	7,539393E+22	5,797615E+22	5,797637E+22	1,507900E+23	1,159525E+23	2,667425E+23
1333	7,539315E+22	7,539296E+22	5,797654E+22	5,797545E+22	1,507861E+23	1,159520E+23	2,667381E+23
1334	7,539500E+22	7,539579E+22	5,797528E+22	5,797611E+22	1,507908E+23	1,159514E+23	2,667422E+23
1335	7,539570E+22	7,539393E+22	5,797470E+22	5,797549E+22	1,507896E+23	1,159502E+23	2,667398E+23
1336	7,539224E+22	7,539475E+22	5,797615E+22	5,797545E+22	1,507870E+23	1,159516E+23	2,667386E+23
1337	7,539557E+22	7,539602E+22	5,797580E+22	5,797598E+22	1,507916E+23	1,159518E+23	2,667434E+23
1338	7,539441E+22	7,539314E+22	5,797662E+22	5,797562E+22	1,507876E+23	1,159522E+23	2,667398E+23
1339	7,539294E+22	7,539465E+22	5,797780E+22	5,797691E+22	1,507876E+23	1,159547E+23	2,667423E+23
1340	7,539606E+22	7,539472E+22	5,797722E+22	5,797792E+22	1,507908E+23	1,159551E+23	2,667459E+23
1341	7,539275E+22	7,539310E+22	5,797836E+22	5,797818E+22	1,507858E+23	1,159565E+23	2,667424E+23
1342	7,539357E+22	7,539572E+22	5,797851E+22	5,797940E+22	1,507893E+23	1,159579E+23	2,667472E+23
1343	7,539584E+22	7,539391E+22	5,797847E+22	5,797925E+22	1,507897E+23	1,159577E+23	2,667475E+23
1344	7,539261E+22	7,539335E+22	5,798019E+22	5,797898E+22	1,507860E+23	1,159592E+23	2,667451E+23
1345	7,539568E+22	7,539553E+22	5,797966E+22	5,797950E+22	1,507912E+23	1,159592E+23	2,667504E+23
1346	7,539493E+22	7,539342E+22	5,797945E+22	5,797894E+22	1,507884E+23	1,159584E+23	2,667467E+23
1347	7,539210E+22	7,539470E+22	5,797983E+22	5,797930E+22	1,507868E+23	1,159591E+23	2,667459E+23
1348	7,539535E+22	7,539541E+22	5,797855E+22	5,797934E+22	1,507908E+23	1,159579E+23	2,667487E+23
1349	7,539291E+22	7,539266E+22	5,797888E+22	5,797809E+22	1,507856E+23	1,159570E+23	2,667426E+23
1350	7,539317E+22	7,539470E+22	5,797840E+22	5,797793E+22	1,507879E+23	1,159563E+23	2,667442E+23
1351	7,539624E+22	7,539395E+22	5,797698E+22	5,797753E+22	1,507902E+23	1,159545E+23	2,667447E+23
1352	7,539257E+22	7,539299E+22	5,797747E+22	5,797692E+22	1,507856E+23	1,159544E+23	2,667400E+23
1353	7,539454E+22	7,539589E+22	5,797672E+22	5,797727E+22	1,507904E+23	1,159540E+23	2,667444E+23
1354	7,539485E+22	7,539404E+22	5,797659E+22	5,797663E+22	1,507889E+23	1,159532E+23	2,667421E+23
1355	7,539203E+22	7,539391E+22	5,797780E+22	5,797679E+22	1,507859E+23	1,159546E+23	2,667405E+23
1356	7,539558E+22	7,539522E+22	5,797747E+22	5,797753E+22	1,507908E+23	1,159550E+23	2,667458E+23
1357	7,539383E+22	7,539245E+22	5,797834E+22	5,797760E+22	1,507863E+23	1,159559E+23	2,667422E+23
1358	7,539244E+22	7,539439E+22	5,797886E+22	5,797864E+22	1,507868E+23	1,159575E+23	2,667443E+23
1359	7,539555E+22	7,539482E+22	5,797824E+22	5,797983E+22	1,507904E+23	1,159581E+23	2,667484E+23
1360	7,539231E+22	7,539252E+22	5,797979E+22	5,797976E+22	1,507848E+23	1,159595E+23	2,667444E+23
1361	7,539392E+22	7,539499E+22	5,798035E+22	5,798025E+22	1,507889E+23	1,159606E+23	2,667495E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1362	7,539575E+22	7,539373E+22	5,798035E+22	5,798012E+22	1,507895E+23	1,159605E+23	2,667500E+23
1363	7,539247E+22	7,539294E+22	5,798144E+22	5,798033E+22	1,507854E+23	1,159618E+23	2,667472E+23
1364	7,539496E+22	7,539567E+22	5,798087E+22	5,798112E+22	1,507906E+23	1,159620E+23	2,667526E+23
1365	7,539360E+22	7,539335E+22	5,798092E+22	5,798069E+22	1,507869E+23	1,159616E+23	2,667486E+23
1366	7,539136E+22	7,539416E+22	5,798107E+22	5,798044E+22	1,507855E+23	1,159615E+23	2,667470E+23
1367	7,539525E+22	7,539497E+22	5,797973E+22	5,798060E+22	1,507902E+23	1,159603E+23	2,667506E+23
1368	7,539293E+22	7,539170E+22	5,798006E+22	5,797938E+22	1,507846E+23	1,159594E+23	2,667441E+23
1369	7,539346E+22	7,539416E+22	5,797961E+22	5,797900E+22	1,507876E+23	1,159586E+23	2,667462E+23
1370	7,539573E+22	7,539437E+22	5,797811E+22	5,797874E+22	1,507901E+23	1,159568E+23	2,667469E+23
1371	7,539217E+22	7,539274E+22	5,797836E+22	5,797831E+22	1,507849E+23	1,159567E+23	2,667416E+23
1372	7,539423E+22	7,539560E+22	5,797821E+22	5,797839E+22	1,507898E+23	1,159566E+23	2,667464E+23
1373	7,539440E+22	7,539332E+22	5,797841E+22	5,797781E+22	1,507877E+23	1,159562E+23	2,667439E+23
1374	7,539181E+22	7,539310E+22	5,797928E+22	5,797789E+22	1,507849E+23	1,159572E+23	2,667421E+23
1375	7,539522E+22	7,539517E+22	5,797867E+22	5,797932E+22	1,507904E+23	1,159580E+23	2,667484E+23
1376	7,539298E+22	7,539211E+22	5,797957E+22	5,797966E+22	1,507851E+23	1,159592E+23	2,667443E+23
1377	7,539208E+22	7,539406E+22	5,798043E+22	5,798022E+22	1,507861E+23	1,159606E+23	2,667468E+23
1378	7,539512E+22	7,539475E+22	5,798009E+22	5,798108E+22	1,507899E+23	1,159612E+23	2,667510E+23
1379	7,539253E+22	7,539176E+22	5,798133E+22	5,798104E+22	1,507843E+23	1,159624E+23	2,667467E+23
1380	7,539410E+22	7,539459E+22	5,798203E+22	5,798151E+22	1,507887E+23	1,159635E+23	2,667522E+23
1381	7,539507E+22	7,539359E+22	5,798204E+22	5,798182E+22	1,507887E+23	1,159639E+23	2,667525E+23
1382	7,539158E+22	7,539299E+22	5,798256E+22	5,798192E+22	1,507846E+23	1,159645E+23	2,667490E+23
1383	7,539408E+22	7,539578E+22	5,798192E+22	5,798289E+22	1,507899E+23	1,159648E+23	2,667547E+23
1384	7,539296E+22	7,539241E+22	5,798233E+22	5,798218E+22	1,507854E+23	1,159645E+23	2,667499E+23
1385	7,539175E+22	7,539302E+22	5,798253E+22	5,798127E+22	1,507848E+23	1,159638E+23	2,667486E+23
1386	7,539536E+22	7,539449E+22	5,798107E+22	5,798141E+22	1,507899E+23	1,159625E+23	2,667523E+23
1387	7,539315E+22	7,539132E+22	5,798073E+22	5,798057E+22	1,507845E+23	1,159613E+23	2,667458E+23
1388	7,539320E+22	7,539437E+22	5,798041E+22	5,798013E+22	1,507876E+23	1,159605E+23	2,667481E+23
1389	7,539473E+22	7,539453E+22	5,797949E+22	5,797997E+22	1,507893E+23	1,159595E+23	2,667487E+23
1390	7,539159E+22	7,539250E+22	5,797975E+22	5,797917E+22	1,507841E+23	1,159589E+23	2,667430E+23
1391	7,539381E+22	7,539528E+22	5,797971E+22	5,797968E+22	1,507891E+23	1,159594E+23	2,667485E+23
1392	7,539391E+22	7,539238E+22	5,798017E+22	5,797954E+22	1,507863E+23	1,159597E+23	2,667460E+23
1393	7,539166E+22	7,539240E+22	5,798080E+22	5,797959E+22	1,507841E+23	1,159604E+23	2,667445E+23
1394	7,539447E+22	7,539522E+22	5,798006E+22	5,798114E+22	1,507897E+23	1,159612E+23	2,667509E+23
1395	7,539276E+22	7,539158E+22	5,798057E+22	5,798147E+22	1,507843E+23	1,159620E+23	2,667464E+23
1396	7,539222E+22	7,539354E+22	5,798190E+22	5,798145E+22	1,507858E+23	1,159634E+23	2,667491E+23
1397	7,539502E+22	7,539429E+22	5,798196E+22	5,798226E+22	1,507893E+23	1,159642E+23	2,667535E+23
1398	7,539248E+22	7,539147E+22	5,798283E+22	5,798211E+22	1,507840E+23	1,159649E+23	2,667489E+23
1399	7,539349E+22	7,539499E+22	5,798336E+22	5,798318E+22	1,507885E+23	1,159665E+23	2,667550E+23
1400	7,539391E+22	7,539345E+22	5,798359E+22	5,798375E+22	1,507874E+23	1,159673E+23	2,667547E+23
1401	7,539094E+22	7,539247E+22	5,798424E+22	5,798338E+22	1,507834E+23	1,159676E+23	2,667510E+23
1402	7,539356E+22	7,539534E+22	5,798365E+22	5,798403E+22	1,507889E+23	1,159677E+23	2,667566E+23
1403	7,539331E+22	7,539119E+22	5,798341E+22	5,798342E+22	1,507845E+23	1,159668E+23	2,667513E+23
1404	7,539222E+22	7,539233E+22	5,798359E+22	5,798234E+22	1,507846E+23	1,159659E+23	2,667505E+23
1405	7,539503E+22	7,539443E+22	5,798204E+22	5,798269E+22	1,507895E+23	1,159647E+23	2,667542E+23
1406	7,539251E+22	7,539155E+22	5,798133E+22	5,798163E+22	1,507841E+23	1,159630E+23	2,667470E+23
1407	7,539247E+22	7,539479E+22	5,798133E+22	5,798131E+22	1,507873E+23	1,159626E+23	2,667499E+23
1408	7,539406E+22	7,539386E+22	5,798111E+22	5,798109E+22	1,507879E+23	1,159622E+23	2,667501E+23
1409	7,539161E+22	7,539158E+22	5,798155E+22	5,798012E+22	1,507832E+23	1,159617E+23	2,667449E+23
1410	7,539339E+22	7,539488E+22	5,798141E+22	5,798093E+22	1,507883E+23	1,159623E+23	2,667506E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1411	7,539360E+22	7,539176E+22	5,798117E+22	5,798146E+22	1,507854E+23	1,159626E+23	2,667480E+23
1412	7,539129E+22	7,539221E+22	5,798192E+22	5,798135E+22	1,507835E+23	1,159633E+23	2,667468E+23
1413	7,539382E+22	7,539497E+22	5,798161E+22	5,798279E+22	1,507888E+23	1,159644E+23	2,667532E+23
1414	7,539267E+22	7,539125E+22	5,798201E+22	5,798256E+22	1,507839E+23	1,159646E+23	2,667485E+23
1415	7,539233E+22	7,539349E+22	5,798342E+22	5,798275E+22	1,507858E+23	1,159662E+23	2,667520E+23
1416	7,539468E+22	7,539380E+22	5,798389E+22	5,798390E+22	1,507885E+23	1,159678E+23	2,667563E+23
1417	7,539213E+22	7,539130E+22	5,798457E+22	5,798377E+22	1,507834E+23	1,159683E+23	2,667518E+23
1418	7,539236E+22	7,539515E+22	5,798503E+22	5,798491E+22	1,507875E+23	1,159699E+23	2,667574E+23
1419	7,539343E+22	7,539265E+22	5,798485E+22	5,798556E+22	1,507861E+23	1,159704E+23	2,667565E+23
1420	7,539112E+22	7,539140E+22	5,798556E+22	5,798450E+22	1,507825E+23	1,159701E+23	2,667526E+23
1421	7,539355E+22	7,539441E+22	5,798502E+22	5,798509E+22	1,507880E+23	1,159701E+23	2,667581E+23
1422	7,539344E+22	7,539091E+22	5,798407E+22	5,798424E+22	1,507843E+23	1,159683E+23	2,667527E+23
1423	7,539187E+22	7,539289E+22	5,798407E+22	5,798356E+22	1,507848E+23	1,159676E+23	2,667524E+23
1424	7,539403E+22	7,539461E+22	5,798321E+22	5,798403E+22	1,507886E+23	1,159672E+23	2,667559E+23
1425	7,539195E+22	7,539147E+22	5,798287E+22	5,798256E+22	1,507834E+23	1,159654E+23	2,667488E+23
1426	7,539172E+22	7,539459E+22	5,798325E+22	5,798217E+22	1,507863E+23	1,159654E+23	2,667517E+23
1427	7,539397E+22	7,539277E+22	5,798258E+22	5,798252E+22	1,507867E+23	1,159651E+23	2,667518E+23
1428	7,539165E+22	7,539067E+22	5,798295E+22	5,798165E+22	1,507823E+23	1,159646E+23	2,667469E+23
1429	7,539277E+22	7,539448E+22	5,798268E+22	5,798287E+22	1,507872E+23	1,159656E+23	2,667528E+23
1430	7,539310E+22	7,539165E+22	5,798189E+22	5,798312E+22	1,507847E+23	1,159650E+23	2,667498E+23
1431	7,539108E+22	7,539231E+22	5,798288E+22	5,798287E+22	1,507834E+23	1,159657E+23	2,667491E+23
1432	7,539372E+22	7,539430E+22	5,798341E+22	5,798403E+22	1,507880E+23	1,159674E+23	2,667555E+23
1433	7,539298E+22	7,539079E+22	5,798393E+22	5,798352E+22	1,507838E+23	1,159675E+23	2,667512E+23
1434	7,539191E+22	7,539368E+22	5,798542E+22	5,798399E+22	1,507856E+23	1,159694E+23	2,667550E+23
1435	7,539407E+22	7,539350E+22	5,798528E+22	5,798584E+22	1,507876E+23	1,159711E+23	2,667587E+23
1436	7,539139E+22	7,539104E+22	5,798615E+22	5,798557E+22	1,507824E+23	1,159717E+23	2,667541E+23
1437	7,539145E+22	7,539458E+22	5,798673E+22	5,798657E+22	1,507860E+23	1,159733E+23	2,667593E+23
1438	7,539315E+22	7,539182E+22	5,798599E+22	5,798674E+22	1,507850E+23	1,159727E+23	2,667577E+23
1439	7,539132E+22	7,539104E+22	5,798646E+22	5,798577E+22	1,507824E+23	1,159722E+23	2,667546E+23
1440	7,539344E+22	7,539381E+22	5,798622E+22	5,798646E+22	1,507873E+23	1,159727E+23	2,667599E+23
1441	7,539321E+22	7,539110E+22	5,798506E+22	5,798537E+22	1,507843E+23	1,159704E+23	2,667547E+23
1442	7,539100E+22	7,539345E+22	5,798530E+22	5,798456E+22	1,507844E+23	1,159699E+23	2,667543E+23
1443	7,539354E+22	7,539402E+22	5,798443E+22	5,798519E+22	1,507876E+23	1,159696E+23	2,667572E+23
1444	7,539193E+22	7,539056E+22	5,798449E+22	5,798343E+22	1,507825E+23	1,159679E+23	2,667504E+23
1445	7,539134E+22	7,539365E+22	5,798489E+22	5,798341E+22	1,507850E+23	1,159683E+23	2,667533E+23
1446	7,539362E+22	7,539223E+22	5,798348E+22	5,798392E+22	1,507859E+23	1,159674E+23	2,667532E+23
1447	7,539123E+22	7,539089E+22	5,798354E+22	5,798344E+22	1,507821E+23	1,159670E+23	2,667491E+23
1448	7,539207E+22	7,539416E+22	5,798399E+22	5,798463E+22	1,507862E+23	1,159686E+23	2,667549E+23
1449	7,539301E+22	7,539152E+22	5,798344E+22	5,798426E+22	1,507845E+23	1,159677E+23	2,667522E+23
1450	7,539090E+22	7,539226E+22	5,798486E+22	5,798381E+22	1,507832E+23	1,159687E+23	2,667518E+23
1451	7,539382E+22	7,539360E+22	5,798518E+22	5,798554E+22	1,507874E+23	1,159707E+23	2,667581E+23
1452	7,539292E+22	7,539036E+22	5,798574E+22	5,798511E+22	1,507833E+23	1,159709E+23	2,667541E+23
1453	7,539076E+22	7,539352E+22	5,798711E+22	5,798607E+22	1,507843E+23	1,159732E+23	2,667575E+23
1454	7,539303E+22	7,539331E+22	5,798637E+22	5,798770E+22	1,507863E+23	1,159741E+23	2,667604E+23
1455	7,539097E+22	7,539065E+22	5,798720E+22	5,798722E+22	1,507816E+23	1,159744E+23	2,667560E+23
1456	7,539134E+22	7,539338E+22	5,798837E+22	5,798792E+22	1,507847E+23	1,159763E+23	2,667610E+23
1457	7,539356E+22	7,539126E+22	5,798728E+22	5,798764E+22	1,507848E+23	1,159749E+23	2,667597E+23
1458	7,539113E+22	7,539131E+22	5,798770E+22	5,798670E+22	1,507824E+23	1,159744E+23	2,667568E+23
1459	7,539302E+22	7,539377E+22	5,798712E+22	5,798786E+22	1,507868E+23	1,159750E+23	2,667618E+23

1	14	15	16	17	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	7,539268E+22	7,539107E+22	5,798642E+22	5,798641E+22	1,507838E+23	1,159728E+23	2,667566E+23
1461	7,539011E+22	7,539311E+22	5,798705E+22	5,798566E+22	1,507832E+23	1,159727E+23	2,667559E+23
1462	7,539307E+22	7,539332E+22	5,798569E+22	5,798618E+22	1,507864E+23	1,159719E+23	2,667583E+23
1463	7,539185E+22	7,539008E+22	5,798554E+22	5,798489E+22	1,507819E+23	1,159704E+23	2,667524E+23
1464	7,539095E+22	7,539279E+22	5,798624E+22	5,798523E+22	1,507837E+23	1,159715E+23	2,667552E+23
1465	7,539323E+22	7,539216E+22	5,798445E+22	5,798555E+22	1,507854E+23	1,159700E+23	2,667554E+23
1466	7,539070E+22	7,539122E+22	5,798475E+22	5,798477E+22	1,507819E+23	1,159695E+23	2,667514E+23
1467	7,539212E+22	7,539340E+22	5,798524E+22	5,798593E+22	1,507855E+23	1,159712E+23	2,667567E+23
1468	7,539335E+22	7,539085E+22	5,798522E+22	5,798514E+22	1,507842E+23	1,159704E+23	2,667546E+23
1469	7,539063E+22	7,539189E+22	5,798677E+22	5,798507E+22	1,507825E+23	1,159718E+23	2,667544E+23
1470	7,539307E+22	7,539345E+22	5,798647E+22	5,798709E+22	1,507865E+23	1,159736E+23	2,667601E+23
1471	7,539201E+22	7,539069E+22	5,798693E+22	5,798718E+22	1,507827E+23	1,159741E+23	2,667568E+23
1472	7,538970E+22	7,539288E+22	5,798891E+22	5,798812E+22	1,507826E+23	1,159770E+23	2,667596E+23
1473	7,539263E+22	7,539273E+22	5,798806E+22	5,798910E+22	1,507854E+23	1,159772E+23	2,667625E+23
1474	7,539096E+22	7,539025E+22	5,798888E+22	5,798831E+22	1,507812E+23	1,159772E+23	2,667584E+23
1475	7,539172E+22	7,539235E+22	5,798963E+22	5,798935E+22	1,507841E+23	1,159790E+23	2,667630E+23
1476	7,539376E+22	7,539098E+22	5,798856E+22	5,798886E+22	1,507847E+23	1,159774E+23	2,667622E+23
1477	7,539037E+22	7,539153E+22	5,798893E+22	5,798815E+22	1,507819E+23	1,159771E+23	2,667590E+23
1478	7,539214E+22	7,539376E+22	5,798804E+22	5,798900E+22	1,507859E+23	1,159770E+23	2,667629E+23
1479	7,539231E+22	7,539089E+22	5,798751E+22	5,798751E+22	1,507832E+23	1,159750E+23	2,667582E+23
1480	7,538975E+22	7,539195E+22	5,798877E+22	5,798686E+22	1,507817E+23	1,159756E+23	2,667573E+23
1481	7,539293E+22	7,539281E+22	5,798696E+22	5,798727E+22	1,507857E+23	1,159742E+23	2,667600E+23
1482	7,539140E+22	7,539014E+22	5,798664E+22	5,798622E+22	1,507815E+23	1,159729E+23	2,667544E+23
1483	7,539052E+22	7,539237E+22	5,798709E+22	5,798702E+22	1,507829E+23	1,159741E+23	2,667570E+23
1484	7,539307E+22	7,539186E+22	5,798573E+22	5,798675E+22	1,507849E+23	1,159725E+23	2,667574E+23
1485	7,539025E+22	7,539086E+22	5,798645E+22	5,798589E+22	1,507811E+23	1,159723E+23	2,667534E+23
1486	7,539193E+22	7,539293E+22	5,798664E+22	5,798693E+22	1,507849E+23	1,159736E+23	2,667584E+23
1487	7,539331E+22	7,539073E+22	5,798660E+22	5,798663E+22	1,507840E+23	1,159732E+23	2,667573E+23
1488	7,538990E+22	7,539137E+22	5,798866E+22	5,798711E+22	1,507813E+23	1,159758E+23	2,667570E+23
1489	7,539212E+22	7,539354E+22	5,798793E+22	5,798896E+22	1,507857E+23	1,159769E+23	2,667625E+23
1490	7,539120E+22	7,539064E+22	5,798860E+22	5,798884E+22	1,507818E+23	1,159774E+23	2,667593E+23
1491	7,538969E+22	7,539156E+22	5,799046E+22	5,798978E+22	1,507812E+23	1,159802E+23	2,667615E+23
1492	7,539316E+22	7,539163E+22	5,798973E+22	5,799017E+22	1,507848E+23	1,159799E+23	2,667647E+23
1493	7,539099E+22	7,538987E+22	5,799037E+22	5,798955E+22	1,507809E+23	1,159799E+23	2,667608E+23
1494	7,539136E+22	7,539242E+22	5,799039E+22	5,799060E+22	1,507838E+23	1,159810E+23	2,667648E+23
1495	7,539314E+22	7,539165E+22	5,798939E+22	5,799030E+22	1,507848E+23	1,159797E+23	2,667645E+23
1496	7,538945E+22	7,539126E+22	5,799063E+22	5,798956E+22	1,507807E+23	1,159802E+23	2,667609E+23
1497	7,539146E+22	7,539346E+22	5,798964E+22	5,798992E+22	1,507849E+23	1,159796E+23	2,667645E+23
1498	7,539199E+22	7,539056E+22	5,798919E+22	5,798854E+22	1,507825E+23	1,159777E+23	2,667603E+23
1499	7,538978E+22	7,539065E+22	5,798992E+22	5,798845E+22	1,507804E+23	1,159784E+23	2,667588E+23
1500	7,539282E+22	7,539215E+22	5,798803E+22	5,798874E+22	1,507850E+23	1,159768E+23	2,667617E+23
1501	7,539074E+22	7,539015E+22	5,798756E+22	5,798776E+22	1,507809E+23	1,159753E+23	2,667562E+23
1502	7,539011E+22	7,539200E+22	5,798773E+22	5,798812E+22	1,507821E+23	1,159759E+23	2,667580E+23
1503	7,539319E+22	7,539167E+22	5,798682E+22	5,798768E+22	1,507849E+23	1,159745E+23	2,667594E+23
1504	7,539024E+22	7,539006E+22	5,798833E+22	5,798701E+22	1,507803E+23	1,159753E+23	2,667556E+23
1505	7,539153E+22	7,539287E+22	5,798829E+22	5,798805E+22	1,507844E+23	1,159763E+23	2,667607E+23
1506	7,539249E+22	7,539116E+22	5,798830E+22	5,798824E+22	1,507837E+23	1,159765E+23	2,667602E+23
1507	7,538907E+22	7,539074E+22	5,799019E+22	5,798929E+22	1,507798E+23	1,159795E+23	2,667593E+23
1508	7,539166E+22	7,539283E+22	5,798981E+22	5,799062E+22	1,507845E+23	1,159804E+23	2,667649E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,539085E+22	7,538995E+22	5,799047E+22	5,799040E+22	1,507808E+23	1,159809E+23	2,667617E+23
1510	7,538982E+22	7,539072E+22	5,799165E+22	5,799115E+22	1,507805E+23	1,159828E+23	2,667633E+23
1511	7,539347E+22	7,539152E+22	5,799078E+22	5,799168E+22	1,507850E+23	1,159825E+23	2,667675E+23
1512	7,539053E+22	7,538974E+22	5,799182E+22	5,799131E+22	1,507803E+23	1,159831E+23	2,667634E+23
1513	7,539051E+22	7,539300E+22	5,799155E+22	5,799189E+22	1,507835E+23	1,159834E+23	2,667669E+23
1514	7,539244E+22	7,539187E+22	5,799091E+22	5,799133E+22	1,507843E+23	1,159822E+23	2,667665E+23
1515	7,538922E+22	7,539003E+22	5,799218E+22	5,799079E+22	1,507792E+23	1,159830E+23	2,667622E+23
1516	7,539156E+22	7,539237E+22	5,799117E+22	5,799079E+22	1,507839E+23	1,159820E+23	2,667659E+23
1517	7,539155E+22	7,538996E+22	5,799044E+22	5,798983E+22	1,507815E+23	1,159803E+23	2,667618E+23
1518	7,538928E+22	7,539032E+22	5,799035E+22	5,798987E+22	1,507796E+23	1,159802E+23	2,667598E+23
1519	7,539249E+22	7,539230E+22	5,798858E+22	5,799011E+22	1,507848E+23	1,159787E+23	2,667635E+23
1520	7,539031E+22	7,538972E+22	5,798903E+22	5,798897E+22	1,507800E+23	1,159780E+23	2,667580E+23
1521	7,538988E+22	7,539197E+22	5,798916E+22	5,798877E+22	1,507819E+23	1,159779E+23	2,667598E+23
1522	7,539309E+22	7,539171E+22	5,798861E+22	5,798860E+22	1,507848E+23	1,159772E+23	2,667620E+23
1523	7,539002E+22	7,538924E+22	5,799005E+22	5,798882E+22	1,507793E+23	1,159789E+23	2,667581E+23
1524	7,539090E+22	7,539252E+22	5,799000E+22	5,798988E+22	1,507834E+23	1,159799E+23	2,667633E+23
1525	7,539138E+22	7,539104E+22	5,798996E+22	5,799033E+22	1,507824E+23	1,159803E+23	2,667627E+23
1526	7,538860E+22	7,538989E+22	5,799134E+22	5,799101E+22	1,507785E+23	1,159824E+23	2,667608E+23
1527	7,539193E+22	7,539210E+22	5,799110E+22	5,799204E+22	1,507840E+23	1,159831E+23	2,667672E+23
1528	7,539110E+22	7,538913E+22	5,799216E+22	5,799184E+22	1,507802E+23	1,159840E+23	2,667642E+23
1529	7,538970E+22	7,539089E+22	5,799282E+22	5,799230E+22	1,507806E+23	1,159851E+23	2,667657E+23
1530	7,539292E+22	7,539233E+22	5,799216E+22	5,799303E+22	1,507852E+23	1,159852E+23	2,667704E+23
1531	7,538984E+22	7,538947E+22	5,799324E+22	5,799294E+22	1,507793E+23	1,159862E+23	2,667655E+23
1532	7,538987E+22	7,539244E+22	5,799342E+22	5,799290E+22	1,507823E+23	1,159863E+23	2,667686E+23
1533	7,539181E+22	7,539129E+22	5,799275E+22	5,799244E+22	1,507831E+23	1,159852E+23	2,667683E+23
1534	7,538908E+22	7,538886E+22	5,799316E+22	5,799201E+22	1,507779E+23	1,159852E+23	2,667631E+23
1535	7,539159E+22	7,539183E+22	5,799195E+22	5,799224E+22	1,507834E+23	1,159842E+23	2,667676E+23
1536	7,539108E+22	7,538960E+22	5,799137E+22	5,799153E+22	1,507807E+23	1,159829E+23	2,667636E+23
1537	7,538867E+22	7,539062E+22	5,799096E+22	5,799096E+22	1,507793E+23	1,159819E+23	2,667612E+23
1538	7,539229E+22	7,539247E+22	5,798984E+22	5,799088E+22	1,507848E+23	1,159807E+23	2,667655E+23
1539	7,539045E+22	7,538880E+22	5,799055E+22	5,798998E+22	1,507792E+23	1,159805E+23	2,667598E+23
1540	7,538996E+22	7,539139E+22	5,799098E+22	5,798959E+22	1,507813E+23	1,159806E+23	2,667619E+23
1541	7,539237E+22	7,539172E+22	5,799034E+22	5,799012E+22	1,507841E+23	1,159805E+23	2,667645E+23
1542	7,538911E+22	7,538902E+22	5,799112E+22	5,799078E+22	1,507781E+23	1,159819E+23	2,667600E+23
1543	7,539022E+22	7,539237E+22	5,799127E+22	5,799183E+22	1,507826E+23	1,159831E+23	2,667657E+23
1544	7,539081E+22	7,539021E+22	5,799185E+22	5,799224E+22	1,507810E+23	1,159841E+23	2,667651E+23
1545	7,538853E+22	7,538953E+22	5,799279E+22	5,799227E+22	1,507781E+23	1,159851E+23	2,667631E+23
1546	7,539227E+22	7,539188E+22	5,799268E+22	5,799329E+22	1,507841E+23	1,159860E+23	2,667701E+23
1547	7,539114E+22	7,538853E+22	5,799362E+22	5,799358E+22	1,507797E+23	1,159872E+23	2,667669E+23
1548	7,538932E+22	7,539101E+22	5,799428E+22	5,799367E+22	1,507803E+23	1,159880E+23	2,667683E+23
1549	7,539188E+22	7,539249E+22	5,799379E+22	5,799446E+22	1,507844E+23	1,159882E+23	2,667726E+23
1550	7,538928E+22	7,538871E+22	5,799454E+22	5,799417E+22	1,507780E+23	1,159887E+23	2,667667E+23
1551	7,538984E+22	7,539160E+22	5,799475E+22	5,799396E+22	1,507814E+23	1,159887E+23	2,667701E+23
1552	7,539154E+22	7,539030E+22	5,799425E+22	5,799384E+22	1,507818E+23	1,159881E+23	2,667699E+23
1553	7,538864E+22	7,538886E+22	5,799383E+22	5,799317E+22	1,507775E+23	1,159870E+23	2,667645E+23
1554	7,539112E+22	7,539221E+22	5,799277E+22	5,799353E+22	1,507833E+23	1,159863E+23	2,667696E+23
1555	7,539065E+22	7,538922E+22	5,799242E+22	5,799294E+22	1,507799E+23	1,159854E+23	2,667652E+23
1556	7,538856E+22	7,539028E+22	5,799247E+22	5,799166E+22	1,507788E+23	1,159841E+23	2,667630E+23
1557	7,539194E+22	7,539227E+22	5,799163E+22	5,799176E+22	1,507842E+23	1,159834E+23	2,667676E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1558	7,539034E+22	7,538810E+22	5,799181E+22	5,799128E+22	1,507784E+23	1,159831E+23	2,667615E+23
1559	7,538958E+22	7,539114E+22	5,799226E+22	5,799130E+22	1,507807E+23	1,159836E+23	2,667643E+23
1560	7,539136E+22	7,539148E+22	5,799186E+22	5,799233E+22	1,507828E+23	1,159842E+23	2,667670E+23
1561	7,538827E+22	7,538891E+22	5,799221E+22	5,799240E+22	1,507772E+23	1,159846E+23	2,667618E+23
1562	7,539014E+22	7,539190E+22	5,799286E+22	5,799319E+22	1,507820E+23	1,159860E+23	2,667681E+23
1563	7,539119E+22	7,538898E+22	5,799340E+22	5,799365E+22	1,507802E+23	1,159871E+23	2,667672E+23
1564	7,538890E+22	7,538891E+22	5,799437E+22	5,799330E+22	1,507778E+23	1,159877E+23	2,667655E+23
1565	7,539176E+22	7,539216E+22	5,799430E+22	5,799469E+22	1,507839E+23	1,159890E+23	2,667729E+23
1566	7,539044E+22	7,538859E+22	5,799470E+22	5,799519E+22	1,507790E+23	1,159899E+23	2,667689E+23
1567	7,538863E+22	7,539103E+22	5,799579E+22	5,799509E+22	1,507797E+23	1,159909E+23	2,667705E+23
1568	7,539106E+22	7,539189E+22	5,799577E+22	5,799598E+22	1,507829E+23	1,159918E+23	2,667747E+23
1569	7,538878E+22	7,538825E+22	5,799592E+22	5,799530E+22	1,507770E+23	1,159912E+23	2,667683E+23
1570	7,538978E+22	7,539110E+22	5,799612E+22	5,799532E+22	1,507809E+23	1,159914E+23	2,667723E+23
1571	7,539128E+22	7,538950E+22	5,799526E+22	5,799569E+22	1,507808E+23	1,159909E+23	2,667717E+23
1572	7,538834E+22	7,538879E+22	5,799470E+22	5,799449E+22	1,507771E+23	1,159892E+23	2,667663E+23
1573	7,539056E+22	7,539228E+22	5,799393E+22	5,799462E+22	1,507828E+23	1,159886E+23	2,667714E+23
1574	7,539062E+22	7,538860E+22	5,799339E+22	5,799377E+22	1,507792E+23	1,159872E+23	2,667664E+23
1575	7,538885E+22	7,538981E+22	5,799380E+22	5,799236E+22	1,507787E+23	1,159862E+23	2,667648E+23
1576	7,539150E+22	7,539176E+22	5,799331E+22	5,799309E+22	1,507833E+23	1,159864E+23	2,667697E+23
1577	7,538948E+22	7,538840E+22	5,799291E+22	5,799272E+22	1,507779E+23	1,159856E+23	2,667635E+23
1578	7,538880E+22	7,539126E+22	5,799357E+22	5,799303E+22	1,507801E+23	1,159866E+23	2,667667E+23
1579	7,539063E+22	7,539059E+22	5,799342E+22	5,799425E+22	1,507812E+23	1,159877E+23	2,667689E+23
1580	7,538826E+22	7,538819E+22	5,799388E+22	5,799358E+22	1,507764E+23	1,159875E+23	2,667639E+23
1581	7,539015E+22	7,539129E+22	5,799464E+22	5,799442E+22	1,507814E+23	1,159891E+23	2,667705E+23
1582	7,539139E+22	7,538832E+22	5,799462E+22	5,799516E+22	1,507797E+23	1,159898E+23	2,667695E+23
1583	7,538881E+22	7,538901E+22	5,799564E+22	5,799490E+22	1,507778E+23	1,159905E+23	2,667684E+23
1584	7,539072E+22	7,539232E+22	5,799595E+22	5,799664E+22	1,507830E+23	1,159926E+23	2,667756E+23
1585	7,538943E+22	7,538880E+22	5,799609E+22	5,799655E+22	1,507782E+23	1,159926E+23	2,667709E+23
1586	7,538829E+22	7,539055E+22	5,799757E+22	5,799635E+22	1,507788E+23	1,159939E+23	2,667728E+23
1587	7,539088E+22	7,539061E+22	5,799744E+22	5,799749E+22	1,507815E+23	1,159949E+23	2,667764E+23
1588	7,538883E+22	7,538757E+22	5,799722E+22	5,799650E+22	1,507764E+23	1,159937E+23	2,667701E+23
1589	7,538924E+22	7,539105E+22	5,799728E+22	5,799678E+22	1,507803E+23	1,159941E+23	2,667743E+23
1590	7,539089E+22	7,538928E+22	5,799583E+22	5,799713E+22	1,507802E+23	1,159930E+23	2,667731E+23
1591	7,538821E+22	7,538867E+22	5,799574E+22	5,799544E+22	1,507769E+23	1,159912E+23	2,667681E+23
1592	7,539020E+22	7,539190E+22	5,799555E+22	5,799562E+22	1,507821E+23	1,159912E+23	2,667733E+23
1593	7,539037E+22	7,538845E+22	5,799458E+22	5,799444E+22	1,507788E+23	1,159890E+23	2,667678E+23
1594	7,538866E+22	7,538958E+22	5,799528E+22	5,799361E+22	1,507782E+23	1,159889E+23	2,667671E+23
1595	7,539070E+22	7,539123E+22	5,799462E+22	5,799501E+22	1,507819E+23	1,159896E+23	2,667716E+23
1596	7,538873E+22	7,538811E+22	5,799414E+22	5,799436E+22	1,507768E+23	1,159885E+23	2,667653E+23
1597	7,538812E+22	7,539075E+22	5,799518E+22	5,799454E+22	1,507789E+23	1,159897E+23	2,667686E+23
1598	7,539078E+22	7,538941E+22	5,799459E+22	5,799558E+22	1,507802E+23	1,159902E+23	2,667704E+23
1599	7,538880E+22	7,538752E+22	5,799522E+22	5,799465E+22	1,507763E+23	1,159899E+23	2,667662E+23
1600	7,538993E+22	7,539109E+22	5,799621E+22	5,799599E+22	1,507810E+23	1,159922E+23	2,667732E+23
1601	7,539058E+22	7,538902E+22	5,799574E+22	5,799659E+22	1,507796E+23	1,159923E+23	2,667719E+23
1602	7,538804E+22	7,538949E+22	5,799730E+22	5,799659E+22	1,507775E+23	1,159939E+23	2,667714E+23
1603	7,538973E+22	7,539170E+22	5,799797E+22	5,799846E+22	1,507814E+23	1,159964E+23	2,667779E+23
1604	7,538911E+22	7,538811E+22	5,799811E+22	5,799785E+22	1,507772E+23	1,159960E+23	2,667732E+23
1605	7,538805E+22	7,538969E+22	5,799948E+22	5,799777E+22	1,507777E+23	1,159972E+23	2,667750E+23
1606	7,539088E+22	7,538957E+22	5,799845E+22	5,799921E+22	1,507805E+23	1,159977E+23	2,667781E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,538888E+22	7,538740E+22	5,799798E+22	5,799802E+22	1,507763E+23	1,159960E+23	2,667723E+23
1608	7,538864E+22	7,539094E+22	5,799825E+22	5,799834E+22	1,507796E+23	1,159966E+23	2,667762E+23
1609	7,539042E+22	7,538947E+22	5,799667E+22	5,799783E+22	1,507799E+23	1,159945E+23	2,667744E+23
1610	7,538842E+22	7,538840E+22	5,799706E+22	5,799602E+22	1,507768E+23	1,159931E+23	2,667699E+23
1611	7,538989E+22	7,539101E+22	5,799709E+22	5,799659E+22	1,507809E+23	1,159937E+23	2,667746E+23
1612	7,539001E+22	7,538827E+22	5,799598E+22	5,799548E+22	1,507783E+23	1,159915E+23	2,667697E+23
1613	7,538766E+22	7,538953E+22	5,799671E+22	5,799517E+22	1,507772E+23	1,159919E+23	2,667691E+23
1614	7,538987E+22	7,539064E+22	5,799562E+22	5,799682E+22	1,507805E+23	1,159924E+23	2,667729E+23
1615	7,538855E+22	7,538755E+22	5,799545E+22	5,799573E+22	1,507761E+23	1,159912E+23	2,667673E+23
1616	7,538791E+22	7,538997E+22	5,799680E+22	5,799604E+22	1,507779E+23	1,159928E+23	2,667707E+23
1617	7,539077E+22	7,538919E+22	5,799579E+22	5,799669E+22	1,507800E+23	1,159925E+23	2,667724E+23
1618	7,538896E+22	7,538753E+22	5,799667E+22	5,799618E+22	1,507765E+23	1,159928E+23	2,667693E+23
1619	7,538916E+22	7,539100E+22	5,799779E+22	5,799797E+22	1,507802E+23	1,159958E+23	2,667759E+23
1620	7,538988E+22	7,538918E+22	5,799742E+22	5,799816E+22	1,507791E+23	1,159956E+23	2,667746E+23
1621	7,538732E+22	7,538906E+22	5,799945E+22	5,799806E+22	1,507764E+23	1,159975E+23	2,667739E+23
1622	7,538962E+22	7,539044E+22	5,799956E+22	5,799992E+22	1,507801E+23	1,159995E+23	2,667795E+23
1623	7,538942E+22	7,538715E+22	5,799959E+22	5,799917E+22	1,507766E+23	1,159988E+23	2,667753E+23
1624	7,538773E+22	7,538920E+22	5,800077E+22	5,799955E+22	1,507769E+23	1,160003E+23	2,667772E+23
1625	7,539028E+22	7,538986E+22	5,799901E+22	5,800048E+22	1,507801E+23	1,159995E+23	2,667796E+23
1626	7,538858E+22	7,538765E+22	5,799897E+22	5,799922E+22	1,507762E+23	1,159982E+23	2,667744E+23
1627	7,538812E+22	7,539054E+22	5,799965E+22	5,799938E+22	1,507787E+23	1,159990E+23	2,667777E+23
1628	7,539030E+22	7,538917E+22	5,799819E+22	5,799838E+22	1,507795E+23	1,159966E+23	2,667761E+23
1629	7,538808E+22	7,538798E+22	5,799887E+22	5,799699E+22	1,507761E+23	1,159959E+23	2,667719E+23
1630	7,538939E+22	7,539028E+22	5,799817E+22	5,799815E+22	1,507797E+23	1,159963E+23	2,667760E+23
1631	7,538945E+22	7,538805E+22	5,799701E+22	5,799716E+22	1,507775E+23	1,159942E+23	2,667717E+23
1632	7,538675E+22	7,538910E+22	5,799789E+22	5,799708E+22	1,507758E+23	1,159950E+23	2,667708E+23
1633	7,538943E+22	7,539017E+22	5,799659E+22	5,799791E+22	1,507796E+23	1,159945E+23	2,667741E+23
1634	7,538906E+22	7,538700E+22	5,799676E+22	5,799677E+22	1,507761E+23	1,159935E+23	2,667696E+23
1635	7,538800E+22	7,538925E+22	5,799828E+22	5,799736E+22	1,507772E+23	1,159956E+23	2,667729E+23
1636	7,539064E+22	7,538941E+22	5,799726E+22	5,799792E+22	1,507801E+23	1,159952E+23	2,667752E+23
1637	7,538818E+22	7,538792E+22	5,799852E+22	5,799777E+22	1,507761E+23	1,159963E+23	2,667724E+23
1638	7,538828E+22	7,539060E+22	5,799943E+22	5,799976E+22	1,507789E+23	1,159992E+23	2,667781E+23
1639	7,538958E+22	7,538866E+22	5,799941E+22	5,799964E+22	1,507782E+23	1,159991E+23	2,667773E+23
1640	7,538692E+22	7,538806E+22	5,800140E+22	5,799983E+22	1,507750E+23	1,160012E+23	2,667762E+23
1641	7,538934E+22	7,538983E+22	5,800081E+22	5,800133E+22	1,507792E+23	1,160021E+23	2,667813E+23
1642	7,538954E+22	7,538695E+22	5,800058E+22	5,800086E+22	1,507765E+23	1,160014E+23	2,667779E+23
1643	7,538706E+22	7,538892E+22	5,800170E+22	5,800137E+22	1,507760E+23	1,160031E+23	2,667791E+23
1644	7,538989E+22	7,539003E+22	5,800011E+22	5,800152E+22	1,507799E+23	1,160016E+23	2,667815E+23
1645	7,538831E+22	7,538742E+22	5,800061E+22	5,799990E+22	1,507757E+23	1,160005E+23	2,667762E+23
1646	7,538809E+22	7,538963E+22	5,800094E+22	5,800014E+22	1,507777E+23	1,160011E+23	2,667788E+23
1647	7,539037E+22	7,538871E+22	5,799954E+22	5,799923E+22	1,507791E+23	1,159988E+23	2,667778E+23
1648	7,538722E+22	7,538770E+22	5,800013E+22	5,799866E+22	1,507749E+23	1,159988E+23	2,667737E+23
1649	7,538823E+22	7,539036E+22	5,799892E+22	5,799959E+22	1,507786E+23	1,159985E+23	2,667771E+23
1650	7,538903E+22	7,538783E+22	5,799810E+22	5,799870E+22	1,507769E+23	1,159968E+23	2,667737E+23
1651	7,538638E+22	7,538823E+22	5,799930E+22	5,799852E+22	1,507746E+23	1,159978E+23	2,667724E+23
1652	7,538977E+22	7,538963E+22	5,799804E+22	5,799880E+22	1,507794E+23	1,159968E+23	2,667762E+23
1653	7,538922E+22	7,538670E+22	5,799852E+22	5,799789E+22	1,507759E+23	1,159964E+23	2,667723E+23
1654	7,538782E+22	7,538894E+22	5,799950E+22	5,799898E+22	1,507768E+23	1,159985E+23	2,667752E+23
1655	7,539019E+22	7,538957E+22	5,799872E+22	5,799958E+22	1,507798E+23	1,159983E+23	2,667781E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1656	7,538719E+22	7,538773E+22	5,800038E+22	5,799977E+22	1,507749E+23	1,160001E+23	2,667751E+23
1657	7,538760E+22	7,539004E+22	5,800095E+22	5,800102E+22	1,507776E+23	1,160020E+23	2,667796E+23
1658	7,538969E+22	7,538786E+22	5,800102E+22	5,800111E+22	1,507776E+23	1,160021E+23	2,667797E+23
1659	7,538666E+22	7,538720E+22	5,800283E+22	5,800157E+22	1,507739E+23	1,160044E+23	2,667783E+23
1660	7,538909E+22	7,538976E+22	5,800193E+22	5,800274E+22	1,507788E+23	1,160047E+23	2,667835E+23
1661	7,538895E+22	7,538725E+22	5,800199E+22	5,800225E+22	1,507762E+23	1,160042E+23	2,667804E+23
1662	7,538665E+22	7,538858E+22	5,800281E+22	5,800263E+22	1,507752E+23	1,160054E+23	2,667807E+23
1663	7,538989E+22	7,538969E+22	5,800169E+22	5,800231E+22	1,507796E+23	1,160040E+23	2,667836E+23
1664	7,538794E+22	7,538690E+22	5,800230E+22	5,800110E+22	1,507748E+23	1,160034E+23	2,667782E+23
1665	7,538751E+22	7,538922E+22	5,800207E+22	5,800114E+22	1,507767E+23	1,160032E+23	2,667799E+23
1666	7,538998E+22	7,538862E+22	5,800054E+22	5,800086E+22	1,507786E+23	1,160014E+23	2,667800E+23
1667	7,538626E+22	7,538727E+22	5,800111E+22	5,800057E+22	1,507735E+23	1,160017E+23	2,667752E+23
1668	7,538784E+22	7,538998E+22	5,800004E+22	5,800078E+22	1,507778E+23	1,160008E+23	2,667786E+23
1669	7,538911E+22	7,538724E+22	5,799966E+22	5,799958E+22	1,507764E+23	1,159992E+23	2,667756E+23
1670	7,538678E+22	7,538723E+22	5,800040E+22	5,799953E+22	1,507740E+23	1,159999E+23	2,667740E+23
1671	7,539017E+22	7,538942E+22	5,799940E+22	5,799982E+22	1,507796E+23	1,159992E+23	2,667788E+23
1672	7,538854E+22	7,538692E+22	5,799993E+22	5,799961E+22	1,507755E+23	1,159995E+23	2,667750E+23
1673	7,538660E+22	7,538927E+22	5,800075E+22	5,800042E+22	1,507759E+23	1,160012E+23	2,667770E+23
1674	7,538955E+22	7,538958E+22	5,800037E+22	5,800124E+22	1,507791E+23	1,160016E+23	2,667807E+23
1675	7,538641E+22	7,538680E+22	5,800232E+22	5,800157E+22	1,507732E+23	1,160039E+23	2,667771E+23
1676	7,538748E+22	7,538925E+22	5,800276E+22	5,800243E+22	1,507767E+23	1,160052E+23	2,667819E+23
1677	7,538963E+22	7,538729E+22	5,800279E+22	5,800271E+22	1,507769E+23	1,160055E+23	2,667824E+23
1678	7,538648E+22	7,538665E+22	5,800374E+22	5,800348E+22	1,507731E+23	1,160072E+23	2,667803E+23
1679	7,538896E+22	7,538976E+22	5,800304E+22	5,800421E+22	1,507787E+23	1,160073E+23	2,667860E+23
1680	7,538839E+22	7,538712E+22	5,800343E+22	5,800363E+22	1,507755E+23	1,160071E+23	2,667826E+23
1681	7,538633E+22	7,538820E+22	5,800408E+22	5,800319E+22	1,507745E+23	1,160073E+23	2,667818E+23
1682	7,539005E+22	7,538930E+22	5,800305E+22	5,800322E+22	1,507793E+23	1,160063E+23	2,667856E+23
1683	7,538730E+22	7,538638E+22	5,800368E+22	5,800257E+22	1,507737E+23	1,160062E+23	2,667799E+23
1684	7,538676E+22	7,538920E+22	5,800316E+22	5,800248E+22	1,507760E+23	1,160056E+23	2,667816E+23
1685	7,538909E+22	7,538857E+22	5,800194E+22	5,800230E+22	1,507777E+23	1,160042E+23	2,667819E+23
1686	7,538594E+22	7,538650E+22	5,800208E+22	5,800198E+22	1,507724E+23	1,160041E+23	2,667765E+23
1687	7,538822E+22	7,538919E+22	5,800138E+22	5,800170E+22	1,507774E+23	1,160031E+23	2,667805E+23
1688	7,538911E+22	7,538677E+22	5,800109E+22	5,800088E+22	1,507759E+23	1,160020E+23	2,667779E+23
1689	7,538657E+22	7,538711E+22	5,800134E+22	5,800054E+22	1,507737E+23	1,160019E+23	2,667756E+23
1690	7,538974E+22	7,538974E+22	5,800048E+22	5,800145E+22	1,507795E+23	1,160019E+23	2,667814E+23
1691	7,538736E+22	7,538693E+22	5,800143E+22	5,800159E+22	1,507743E+23	1,160030E+23	2,667773E+23
1692	7,538589E+22	7,538891E+22	5,800252E+22	5,800177E+22	1,507748E+23	1,160043E+23	2,667791E+23
1693	7,538923E+22	7,538882E+22	5,800258E+22	5,800253E+22	1,507781E+23	1,160051E+23	2,667832E+23
1694	7,538655E+22	7,538556E+22	5,800376E+22	5,800316E+22	1,507721E+23	1,160069E+23	2,667790E+23
1695	7,538773E+22	7,538858E+22	5,800420E+22	5,800396E+22	1,507763E+23	1,160082E+23	2,667845E+23
1696	7,538903E+22	7,538735E+22	5,800407E+22	5,800466E+22	1,507764E+23	1,160087E+23	2,667851E+23
1697	7,538579E+22	7,538680E+22	5,800470E+22	5,800475E+22	1,507726E+23	1,160095E+23	2,667820E+23
1698	7,538879E+22	7,538982E+22	5,800445E+22	5,800544E+22	1,507786E+23	1,160099E+23	2,667885E+23
1699	7,538790E+22	7,538666E+22	5,800519E+22	5,800488E+22	1,507746E+23	1,160101E+23	2,667846E+23
1700	7,538610E+22	7,538781E+22	5,800577E+22	5,800412E+22	1,507739E+23	1,160099E+23	2,667838E+23
1701	7,538955E+22	7,538906E+22	5,800475E+22	5,800454E+22	1,507786E+23	1,160093E+23	2,667879E+23
1702	7,538664E+22	7,538580E+22	5,800451E+22	5,800446E+22	1,507724E+23	1,160090E+23	2,667814E+23
1703	7,538642E+22	7,538875E+22	5,800422E+22	5,800400E+22	1,507752E+23	1,160082E+23	2,667834E+23
1704	7,538867E+22	7,538795E+22	5,800309E+22	5,800368E+22	1,507766E+23	1,160068E+23	2,667834E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,538598E+22	7,538577E+22	5,800289E+22	5,800255E+22	1,507717E+23	1,160054E+23	2,667772E+23
1706	7,538872E+22	7,538893E+22	5,800229E+22	5,800257E+22	1,507777E+23	1,160049E+23	2,667825E+23
1707	7,538858E+22	7,538670E+22	5,800228E+22	5,800224E+22	1,507753E+23	1,160045E+23	2,667798E+23
1708	7,538576E+22	7,538752E+22	5,800271E+22	5,800178E+22	1,507733E+23	1,160045E+23	2,667778E+23
1709	7,538870E+22	7,538992E+22	5,800243E+22	5,800286E+22	1,507786E+23	1,160053E+23	2,667839E+23
1710	7,538672E+22	7,538609E+22	5,800315E+22	5,800330E+22	1,507728E+23	1,160065E+23	2,667793E+23
1711	7,538597E+22	7,538781E+22	5,800451E+22	5,800324E+22	1,507738E+23	1,160077E+23	2,667815E+23
1712	7,538898E+22	7,538793E+22	5,800436E+22	5,800442E+22	1,507769E+23	1,160088E+23	2,667857E+23
1713	7,538636E+22	7,538508E+22	5,800474E+22	5,800475E+22	1,507714E+23	1,160095E+23	2,667809E+23
1714	7,538764E+22	7,538875E+22	5,800508E+22	5,800587E+22	1,507764E+23	1,160109E+23	2,667873E+23
1715	7,538825E+22	7,538743E+22	5,800541E+22	5,800647E+22	1,507757E+23	1,160119E+23	2,667876E+23
1716	7,538553E+22	7,538672E+22	5,800635E+22	5,800566E+22	1,507722E+23	1,160120E+23	2,667843E+23
1717	7,538860E+22	7,538945E+22	5,800656E+22	5,800625E+22	1,507781E+23	1,160128E+23	2,667909E+23
1718	7,538779E+22	7,538591E+22	5,800664E+22	5,800622E+22	1,507737E+23	1,160129E+23	2,667865E+23
1719	7,538588E+22	7,538725E+22	5,800715E+22	5,800553E+22	1,507731E+23	1,160127E+23	2,667858E+23
1720	7,538839E+22	7,538896E+22	5,800593E+22	5,800642E+22	1,507774E+23	1,160123E+23	2,667897E+23
1721	7,538588E+22	7,538547E+22	5,800515E+22	5,800567E+22	1,507713E+23	1,160108E+23	2,667822E+23
1722	7,538643E+22	7,538821E+22	5,800511E+22	5,800514E+22	1,507746E+23	1,160102E+23	2,667849E+23
1723	7,538850E+22	7,538731E+22	5,800438E+22	5,800479E+22	1,507758E+23	1,160092E+23	2,667850E+23
1724	7,538616E+22	7,538548E+22	5,800413E+22	5,800324E+22	1,507716E+23	1,160074E+23	2,667790E+23
1725	7,538837E+22	7,538906E+22	5,800387E+22	5,800363E+22	1,507774E+23	1,160075E+23	2,667849E+23
1726	7,538789E+22	7,538664E+22	5,800338E+22	5,800395E+22	1,507745E+23	1,160073E+23	2,667819E+23
1727	7,538523E+22	7,538710E+22	5,800440E+22	5,800331E+22	1,507723E+23	1,160077E+23	2,667800E+23
1728	7,538788E+22	7,538923E+22	5,800436E+22	5,800452E+22	1,507771E+23	1,160089E+23	2,667860E+23
1729	7,538657E+22	7,538504E+22	5,800451E+22	5,800453E+22	1,507716E+23	1,160090E+23	2,667806E+23
1730	7,538631E+22	7,538714E+22	5,800572E+22	5,800491E+22	1,507734E+23	1,160106E+23	2,667841E+23
1731	7,538848E+22	7,538770E+22	5,800564E+22	5,800642E+22	1,507762E+23	1,160121E+23	2,667882E+23
1732	7,538585E+22	7,538547E+22	5,800600E+22	5,800621E+22	1,507713E+23	1,160122E+23	2,667835E+23
1733	7,538710E+22	7,538907E+22	5,800694E+22	5,800715E+22	1,507762E+23	1,160141E+23	2,667903E+23
1734	7,538794E+22	7,538693E+22	5,800710E+22	5,800786E+22	1,507749E+23	1,160150E+23	2,667898E+23
1735	7,538566E+22	7,538601E+22	5,800842E+22	5,800682E+22	1,507717E+23	1,160152E+23	2,667869E+23
1736	7,538801E+22	7,538887E+22	5,800834E+22	5,800781E+22	1,507769E+23	1,160161E+23	2,667930E+23
1737	7,538709E+22	7,538537E+22	5,800753E+22	5,800772E+22	1,507725E+23	1,160153E+23	2,667877E+23
1738	7,538542E+22	7,538709E+22	5,800778E+22	5,800733E+22	1,507725E+23	1,160151E+23	2,667876E+23
1739	7,538757E+22	7,538843E+22	5,800691E+22	5,800801E+22	1,507760E+23	1,160149E+23	2,667909E+23
1740	7,538590E+22	7,538496E+22	5,800627E+22	5,800625E+22	1,507709E+23	1,160125E+23	2,667834E+23
1741	7,538677E+22	7,538777E+22	5,800654E+22	5,800560E+22	1,507745E+23	1,160121E+23	2,667867E+23
1742	7,538862E+22	7,538683E+22	5,800539E+22	5,800578E+22	1,507754E+23	1,160112E+23	2,667866E+23
1743	7,538602E+22	7,538543E+22	5,800550E+22	5,800439E+22	1,507715E+23	1,160099E+23	2,667813E+23
1744	7,538706E+22	7,538929E+22	5,800541E+22	5,800525E+22	1,507763E+23	1,160107E+23	2,667870E+23
1745	7,538692E+22	7,538633E+22	5,800470E+22	5,800533E+22	1,507732E+23	1,160100E+23	2,667833E+23
1746	7,538503E+22	7,538644E+22	5,800588E+22	5,800494E+22	1,507715E+23	1,160108E+23	2,667823E+23
1747	7,538742E+22	7,538831E+22	5,800611E+22	5,800635E+22	1,507757E+23	1,160125E+23	2,667882E+23
1748	7,538662E+22	7,538455E+22	5,800595E+22	5,800598E+22	1,507712E+23	1,160119E+23	2,667831E+23
1749	7,538613E+22	7,538713E+22	5,800720E+22	5,800661E+22	1,507733E+23	1,160138E+23	2,667871E+23
1750	7,538807E+22	7,538768E+22	5,800675E+22	5,800840E+22	1,507758E+23	1,160152E+23	2,667909E+23
1751	7,538584E+22	7,538515E+22	5,800772E+22	5,800756E+22	1,507710E+23	1,160153E+23	2,667863E+23
1752	7,538654E+22	7,538863E+22	5,800900E+22	5,800835E+22	1,507752E+23	1,160174E+23	2,667925E+23
1753	7,538782E+22	7,538624E+22	5,800854E+22	5,800876E+22	1,507741E+23	1,160173E+23	2,667914E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,538559E+22	7,538551E+22	5,800963E+22	5,800831E+22	1,507711E+23	1,160179E+23	2,667890E+23
1755	7,538689E+22	7,538861E+22	5,800961E+22	5,800970E+22	1,507755E+23	1,160193E+23	2,667948E+23
1756	7,538629E+22	7,538537E+22	5,800857E+22	5,800905E+22	1,507717E+23	1,160176E+23	2,667893E+23
1757	7,538498E+22	7,538684E+22	5,800917E+22	5,800844E+22	1,507718E+23	1,160176E+23	2,667894E+23
1758	7,538759E+22	7,538763E+22	5,800804E+22	5,800910E+22	1,507752E+23	1,160171E+23	2,667924E+23
1759	7,538645E+22	7,538423E+22	5,800772E+22	5,800698E+22	1,507707E+23	1,160147E+23	2,667854E+23
1760	7,538642E+22	7,538759E+22	5,800796E+22	5,800671E+22	1,507740E+23	1,160147E+23	2,667887E+23
1761	7,538803E+22	7,538684E+22	5,800618E+22	5,800700E+22	1,507749E+23	1,160132E+23	2,667881E+23
1762	7,538541E+22	7,538559E+22	5,800643E+22	5,800614E+22	1,507710E+23	1,160126E+23	2,667836E+23
1763	7,538591E+22	7,538884E+22	5,800697E+22	5,800698E+22	1,507747E+23	1,160140E+23	2,667887E+23
1764	7,538660E+22	7,538564E+22	5,800633E+22	5,800641E+22	1,507722E+23	1,160127E+23	2,667850E+23
1765	7,538522E+22	7,538574E+22	5,800759E+22	5,800616E+22	1,507710E+23	1,160137E+23	2,667847E+23
1766	7,538749E+22	7,538749E+22	5,800728E+22	5,800808E+22	1,507750E+23	1,160154E+23	2,667903E+23
1767	7,538666E+22	7,538440E+22	5,800734E+22	5,800757E+22	1,507711E+23	1,160149E+23	2,667860E+23
1768	7,538532E+22	7,538738E+22	5,800870E+22	5,800822E+22	1,507727E+23	1,160169E+23	2,667896E+23
1769	7,538753E+22	7,538741E+22	5,800815E+22	5,800958E+22	1,507749E+23	1,160177E+23	2,667927E+23
1770	7,538584E+22	7,538482E+22	5,800940E+22	5,800892E+22	1,507707E+23	1,160183E+23	2,667890E+23
1771	7,538588E+22	7,538796E+22	5,801095E+22	5,800991E+22	1,507738E+23	1,160209E+23	2,667947E+23
1772	7,538737E+22	7,538588E+22	5,801015E+22	5,801013E+22	1,507733E+23	1,160203E+23	2,667935E+23
1773	7,538501E+22	7,538543E+22	5,801098E+22	5,801003E+22	1,507704E+23	1,160210E+23	2,667914E+23
1774	7,538617E+22	7,538811E+22	5,801053E+22	5,801160E+22	1,507743E+23	1,160221E+23	2,667964E+23
1775	7,538637E+22	7,538467E+22	5,800990E+22	5,801019E+22	1,507710E+23	1,160201E+23	2,667911E+23
1776	7,538488E+22	7,538624E+22	5,801055E+22	5,800930E+22	1,507711E+23	1,160198E+23	2,667910E+23
1777	7,538783E+22	7,538704E+22	5,800890E+22	5,800971E+22	1,507749E+23	1,160186E+23	2,667935E+23
1778	7,538659E+22	7,538430E+22	5,800853E+22	5,800811E+22	1,507709E+23	1,160166E+23	2,667875E+23
1779	7,538520E+22	7,538784E+22	5,800919E+22	5,800824E+22	1,507730E+23	1,160174E+23	2,667905E+23
1780	7,538699E+22	7,538714E+22	5,800750E+22	5,800818E+22	1,507741E+23	1,160157E+23	2,667898E+23
1781	7,538477E+22	7,538528E+22	5,800821E+22	5,800747E+22	1,507700E+23	1,160157E+23	2,667857E+23
1782	7,538563E+22	7,538778E+22	5,800856E+22	5,800858E+22	1,507734E+23	1,160171E+23	2,667905E+23
1783	7,538709E+22	7,538453E+22	5,800799E+22	5,800776E+22	1,507716E+23	1,160158E+23	2,667874E+23
1784	7,538495E+22	7,538525E+22	5,800901E+22	5,800778E+22	1,507702E+23	1,160168E+23	2,667870E+23
1785	7,538723E+22	7,538737E+22	5,800804E+22	5,800963E+22	1,507746E+23	1,160177E+23	2,667923E+23
1786	7,538645E+22	7,538458E+22	5,800833E+22	5,800924E+22	1,507710E+23	1,160176E+23	2,667886E+23
1787	7,538451E+22	7,538713E+22	5,801053E+22	5,800967E+22	1,507716E+23	1,160202E+23	2,667918E+23
1788	7,538730E+22	7,538708E+22	5,801004E+22	5,801043E+22	1,507744E+23	1,160205E+23	2,667948E+23
1789	7,538570E+22	7,538446E+22	5,801137E+22	5,801020E+22	1,507702E+23	1,160216E+23	2,667917E+23
1790	7,538526E+22	7,538737E+22	5,801240E+22	5,801182E+22	1,507726E+23	1,160242E+23	2,667968E+23
1791	7,538688E+22	7,538553E+22	5,801161E+22	5,801190E+22	1,507724E+23	1,160235E+23	2,667959E+23
1792	7,538407E+22	7,538525E+22	5,801236E+22	5,801168E+22	1,507693E+23	1,160240E+23	2,667934E+23
1793	7,538599E+22	7,538739E+22	5,801150E+22	5,801270E+22	1,507734E+23	1,160242E+23	2,667976E+23
1794	7,538678E+22	7,538427E+22	5,801092E+22	5,801124E+22	1,507711E+23	1,160222E+23	2,667932E+23
1795	7,538465E+22	7,538583E+22	5,801188E+22	5,801040E+22	1,507705E+23	1,160223E+23	2,667928E+23
1796	7,538749E+22	7,538715E+22	5,801004E+22	5,801060E+22	1,507746E+23	1,160206E+23	2,667953E+23
1797	7,538597E+22	7,538474E+22	5,800975E+22	5,800952E+22	1,507707E+23	1,160193E+23	2,667900E+23
1798	7,538425E+22	7,538741E+22	5,801036E+22	5,800989E+22	1,507717E+23	1,160202E+23	2,667919E+23
1799	7,538676E+22	7,538624E+22	5,800924E+22	5,800934E+22	1,507730E+23	1,160186E+23	2,667916E+23
1800	7,538454E+22	7,538438E+22	5,800979E+22	5,800856E+22	1,507689E+23	1,160184E+23	2,667873E+23
1801	7,538583E+22	7,538664E+22	5,800948E+22	5,800971E+22	1,507725E+23	1,160192E+23	2,667917E+23
1802	7,538724E+22	7,538442E+22	5,800879E+22	5,800935E+22	1,507717E+23	1,160181E+23	2,667898E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1803	7,538406E+22	7,538547E+22	5,801016E+22	5,800953E+22	1,507695E+23	1,160197E+23	2,667892E+23
1804	7,538650E+22	7,538772E+22	5,800950E+22	5,801080E+22	1,507742E+23	1,160203E+23	2,667945E+23
1805	7,538607E+22	7,538471E+22	5,801032E+22	5,801051E+22	1,507708E+23	1,160208E+23	2,667916E+23
1806	7,538405E+22	7,538640E+22	5,801254E+22	5,801126E+22	1,507705E+23	1,160238E+23	2,667942E+23
1807	7,538726E+22	7,538628E+22	5,801220E+22	5,801198E+22	1,507735E+23	1,160242E+23	2,667977E+23
1808	7,538495E+22	7,538406E+22	5,801309E+22	5,801215E+22	1,507690E+23	1,160252E+23	2,667943E+23
1809	7,538465E+22	7,538685E+22	5,801327E+22	5,801376E+22	1,507715E+23	1,160270E+23	2,667985E+23
1810	7,538668E+22	7,538528E+22	5,801246E+22	5,801368E+22	1,507720E+23	1,160261E+23	2,667981E+23
1811	7,538368E+22	7,538465E+22	5,801368E+22	5,801296E+22	1,507683E+23	1,160266E+23	2,667950E+23
1812	7,538626E+22	7,538699E+22	5,801274E+22	5,801317E+22	1,507733E+23	1,160259E+23	2,667992E+23
1813	7,538702E+22	7,538426E+22	5,801219E+22	5,801202E+22	1,507713E+23	1,160242E+23	2,667955E+23
1814	7,538409E+22	7,538576E+22	5,801302E+22	5,801172E+22	1,507698E+23	1,160247E+23	2,667946E+23
1815	7,538686E+22	7,538716E+22	5,801142E+22	5,801178E+22	1,507740E+23	1,160232E+23	2,667972E+23
1816	7,538476E+22	7,538455E+22	5,801133E+22	5,801083E+22	1,507693E+23	1,160222E+23	2,667915E+23
1817	7,538379E+22	7,538641E+22	5,801156E+22	5,801109E+22	1,507702E+23	1,160226E+23	2,667929E+23
1818	7,538692E+22	7,538539E+22	5,801039E+22	5,801071E+22	1,507723E+23	1,160211E+23	2,667934E+23
1819	7,538425E+22	7,538366E+22	5,801109E+22	5,801013E+22	1,507679E+23	1,160212E+23	2,667891E+23
1820	7,538564E+22	7,538659E+22	5,801044E+22	5,801100E+22	1,507722E+23	1,160214E+23	2,667937E+23
1821	7,538683E+22	7,538498E+22	5,800987E+22	5,801098E+22	1,507718E+23	1,160209E+23	2,667927E+23
1822	7,538338E+22	7,538531E+22	5,801163E+22	5,801117E+22	1,507687E+23	1,160228E+23	2,667915E+23
1823	7,538641E+22	7,538712E+22	5,801166E+22	5,801190E+22	1,507735E+23	1,160236E+23	2,667971E+23
1824	7,538569E+22	7,538418E+22	5,801253E+22	5,801177E+22	1,507699E+23	1,160243E+23	2,667942E+23
1825	7,538387E+22	7,538548E+22	5,801400E+22	5,801286E+22	1,507694E+23	1,160269E+23	2,667962E+23
1826	7,538686E+22	7,538608E+22	5,801341E+22	5,801402E+22	1,507729E+23	1,160274E+23	2,668004E+23
1827	7,538390E+22	7,538391E+22	5,801439E+22	5,801421E+22	1,507678E+23	1,160286E+23	2,667964E+23
1828	7,538415E+22	7,538656E+22	5,801454E+22	5,801502E+22	1,507707E+23	1,160296E+23	2,668003E+23
1829	7,538680E+22	7,538517E+22	5,801391E+22	5,801483E+22	1,507720E+23	1,160287E+23	2,668007E+23
1830	7,538380E+22	7,538395E+22	5,801505E+22	5,801406E+22	1,507677E+23	1,160291E+23	2,667969E+23
1831	7,538647E+22	7,538648E+22	5,801436E+22	5,801406E+22	1,507730E+23	1,160284E+23	2,668014E+23
1832	7,538626E+22	7,538449E+22	5,801355E+22	5,801322E+22	1,507707E+23	1,160268E+23	2,667975E+23
1833	7,538322E+22	7,538542E+22	5,801380E+22	5,801316E+22	1,507686E+23	1,160270E+23	2,667956E+23
1834	7,538620E+22	7,538683E+22	5,801248E+22	5,801322E+22	1,507730E+23	1,160257E+23	2,667987E+23
1835	7,538412E+22	7,538367E+22	5,801274E+22	5,801214E+22	1,507678E+23	1,160249E+23	2,667927E+23
1836	7,538383E+22	7,538554E+22	5,801274E+22	5,801192E+22	1,507694E+23	1,160247E+23	2,667940E+23
1837	7,538709E+22	7,538523E+22	5,801142E+22	5,801202E+22	1,507723E+23	1,160234E+23	2,667958E+23
1838	7,538378E+22	7,538355E+22	5,801205E+22	5,801177E+22	1,507673E+23	1,160238E+23	2,667912E+23
1839	7,538527E+22	7,538669E+22	5,801192E+22	5,801232E+22	1,507720E+23	1,160242E+23	2,667962E+23
1840	7,538603E+22	7,538512E+22	5,801178E+22	5,801223E+22	1,507711E+23	1,160240E+23	2,667952E+23
1841	7,538313E+22	7,538455E+22	5,801338E+22	5,801250E+22	1,507677E+23	1,160259E+23	2,667936E+23
1842	7,538636E+22	7,538651E+22	5,801348E+22	5,801348E+22	1,507729E+23	1,160270E+23	2,667998E+23
1843	7,538504E+22	7,538351E+22	5,801441E+22	5,801380E+22	1,507685E+23	1,160282E+23	2,667968E+23
1844	7,538333E+22	7,538520E+22	5,801529E+22	5,801467E+22	1,507685E+23	1,160300E+23	2,667985E+23
1845	7,538637E+22	7,538615E+22	5,801451E+22	5,801602E+22	1,507725E+23	1,160305E+23	2,668031E+23
1846	7,538348E+22	7,538332E+22	5,801570E+22	5,801588E+22	1,507668E+23	1,160316E+23	2,667984E+23
1847	7,538459E+22	7,538578E+22	5,801617E+22	5,801581E+22	1,507704E+23	1,160320E+23	2,668024E+23
1848	7,538675E+22	7,538484E+22	5,801552E+22	5,801552E+22	1,507716E+23	1,160310E+23	2,668026E+23
1849	7,538374E+22	7,538353E+22	5,801607E+22	5,801511E+22	1,507673E+23	1,160312E+23	2,667984E+23
1850	7,538584E+22	7,538669E+22	5,801535E+22	5,801541E+22	1,507725E+23	1,160308E+23	2,668033E+23
1851	7,538486E+22	7,538451E+22	5,801490E+22	5,801481E+22	1,507694E+23	1,160297E+23	2,667991E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1852	7,538238E+22	7,538498E+22	5,801508E+22	5,801423E+22	1,507674E+23	1,160293E+23	2,667967E+23
1853	7,538593E+22	7,538635E+22	5,801379E+22	5,801451E+22	1,507723E+23	1,160283E+23	2,668006E+23
1854	7,538405E+22	7,538266E+22	5,801399E+22	5,801357E+22	1,507667E+23	1,160276E+23	2,667943E+23
1855	7,538418E+22	7,538480E+22	5,801404E+22	5,801313E+22	1,507690E+23	1,160272E+23	2,667961E+23
1856	7,538662E+22	7,538545E+22	5,801262E+22	5,801339E+22	1,507721E+23	1,160260E+23	2,667981E+23
1857	7,538346E+22	7,538337E+22	5,801293E+22	5,801325E+22	1,507668E+23	1,160262E+23	2,667930E+23
1858	7,538497E+22	7,538651E+22	5,801342E+22	5,801358E+22	1,507715E+23	1,160270E+23	2,667985E+23
1859	7,538554E+22	7,538456E+22	5,801379E+22	5,801355E+22	1,507701E+23	1,160273E+23	2,667974E+23
1860	7,538296E+22	7,538382E+22	5,801512E+22	5,801368E+22	1,507668E+23	1,160288E+23	2,667956E+23
1861	7,538600E+22	7,538645E+22	5,801497E+22	5,801536E+22	1,507725E+23	1,160303E+23	2,668028E+23
1862	7,538423E+22	7,538317E+22	5,801571E+22	5,801596E+22	1,507674E+23	1,160317E+23	2,667991E+23
1863	7,538290E+22	7,538476E+22	5,801684E+22	5,801633E+22	1,507677E+23	1,160332E+23	2,668008E+23
1864	7,538586E+22	7,538599E+22	5,801625E+22	5,801728E+22	1,507718E+23	1,160335E+23	2,668054E+23
1865	7,538369E+22	7,538248E+22	5,801698E+22	5,801701E+22	1,507662E+23	1,160340E+23	2,668002E+23
1866	7,538482E+22	7,538538E+22	5,801761E+22	5,801690E+22	1,507702E+23	1,160345E+23	2,668047E+23
1867	7,538617E+22	7,538471E+22	5,801700E+22	5,801696E+22	1,507709E+23	1,160340E+23	2,668048E+23
1868	7,538292E+22	7,538362E+22	5,801710E+22	5,801643E+22	1,507665E+23	1,160335E+23	2,668001E+23
1869	7,538490E+22	7,538695E+22	5,801637E+22	5,801703E+22	1,507719E+23	1,160334E+23	2,668053E+23
1870	7,538411E+22	7,538366E+22	5,801627E+22	5,801626E+22	1,507678E+23	1,160325E+23	2,668003E+23
1871	7,538265E+22	7,538378E+22	5,801662E+22	5,801509E+22	1,507664E+23	1,160317E+23	2,667981E+23
1872	7,538598E+22	7,538571E+22	5,801517E+22	5,801538E+22	1,507717E+23	1,160306E+23	2,668023E+23
1873	7,538423E+22	7,538210E+22	5,801468E+22	5,801482E+22	1,507663E+23	1,160295E+23	2,667958E+23
1874	7,538396E+22	7,538504E+22	5,801485E+22	5,801446E+22	1,507690E+23	1,160293E+23	2,667983E+23
1875	7,538568E+22	7,538564E+22	5,801405E+22	5,801483E+22	1,507713E+23	1,160289E+23	2,668002E+23
1876	7,538296E+22	7,538324E+22	5,801454E+22	5,801428E+22	1,507662E+23	1,160288E+23	2,667950E+23
1877	7,538467E+22	7,538631E+22	5,801515E+22	5,801495E+22	1,507710E+23	1,160301E+23	2,668011E+23
1878	7,538507E+22	7,538372E+22	5,801571E+22	5,801537E+22	1,507688E+23	1,160311E+23	2,667999E+23
1879	7,538283E+22	7,538310E+22	5,801684E+22	5,801543E+22	1,507659E+23	1,160323E+23	2,667982E+23
1880	7,538512E+22	7,538635E+22	5,801644E+22	5,801725E+22	1,507715E+23	1,160337E+23	2,668052E+23
1881	7,538387E+22	7,538260E+22	5,801671E+22	5,801784E+22	1,507665E+23	1,160346E+23	2,668010E+23
1882	7,538300E+22	7,538420E+22	5,801817E+22	5,801764E+22	1,507672E+23	1,160358E+23	2,668030E+23
1883	7,538577E+22	7,538540E+22	5,801796E+22	5,801840E+22	1,507712E+23	1,160364E+23	2,668075E+23
1884	7,538377E+22	7,538219E+22	5,801831E+22	5,801783E+22	1,507660E+23	1,160361E+23	2,668021E+23
1885	7,538436E+22	7,538578E+22	5,801877E+22	5,801828E+22	1,507701E+23	1,160371E+23	2,668072E+23
1886	7,538505E+22	7,538473E+22	5,801836E+22	5,801864E+22	1,507698E+23	1,160370E+23	2,668068E+23
1887	7,538223E+22	7,538319E+22	5,801867E+22	5,801773E+22	1,507654E+23	1,160364E+23	2,668018E+23
1888	7,538414E+22	7,538647E+22	5,801808E+22	5,801810E+22	1,507706E+23	1,160362E+23	2,668068E+23
1889	7,538428E+22	7,538246E+22	5,801735E+22	5,801749E+22	1,507667E+23	1,160348E+23	2,668016E+23
1890	7,538305E+22	7,538299E+22	5,801765E+22	5,801627E+22	1,507660E+23	1,160339E+23	2,668000E+23
1891	7,538571E+22	7,538549E+22	5,801624E+22	5,801683E+22	1,507712E+23	1,160331E+23	2,668043E+23
1892	7,538380E+22	7,538232E+22	5,801535E+22	5,801602E+22	1,507661E+23	1,160314E+23	2,667975E+23
1893	7,538339E+22	7,538557E+22	5,801585E+22	5,801581E+22	1,507690E+23	1,160317E+23	2,668006E+23
1894	7,538512E+22	7,538516E+22	5,801571E+22	5,801606E+22	1,507703E+23	1,160318E+23	2,668021E+23
1895	7,538296E+22	7,538234E+22	5,801652E+22	5,801529E+22	1,507653E+23	1,160318E+23	2,667971E+23
1896	7,538413E+22	7,538591E+22	5,801708E+22	5,801626E+22	1,507700E+23	1,160333E+23	2,668034E+23
1897	7,538467E+22	7,538304E+22	5,801688E+22	5,801733E+22	1,507677E+23	1,160342E+23	2,668019E+23
1898	7,538233E+22	7,538287E+22	5,801806E+22	5,801735E+22	1,507652E+23	1,160354E+23	2,668006E+23
1899	7,538438E+22	7,538602E+22	5,801802E+22	5,801904E+22	1,507704E+23	1,160371E+23	2,668075E+23
1900	7,538373E+22	7,538220E+22	5,801813E+22	5,801896E+22	1,507659E+23	1,160371E+23	2,668030E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,538317E+22	7,538415E+22	5,801959E+22	5,801889E+22	1,507673E+23	1,160385E+23	2,668058E+23
1902	7,538556E+22	7,538492E+22	5,801971E+22	5,801986E+22	1,507705E+23	1,160396E+23	2,668100E+23
1903	7,538353E+22	7,538202E+22	5,801996E+22	5,801923E+22	1,507656E+23	1,160392E+23	2,668047E+23
1904	7,538323E+22	7,538604E+22	5,802031E+22	5,801975E+22	1,507693E+23	1,160401E+23	2,668093E+23
1905	7,538439E+22	7,538405E+22	5,801949E+22	5,802028E+22	1,507684E+23	1,160398E+23	2,668082E+23
1906	7,538221E+22	7,538224E+22	5,801998E+22	5,801887E+22	1,507644E+23	1,160388E+23	2,668033E+23
1907	7,538405E+22	7,538543E+22	5,801947E+22	5,801922E+22	1,507695E+23	1,160387E+23	2,668082E+23
1908	7,538446E+22	7,538204E+22	5,801809E+22	5,801840E+22	1,507665E+23	1,160365E+23	2,668030E+23
1909	7,538292E+22	7,538344E+22	5,801808E+22	5,801756E+22	1,507664E+23	1,160356E+23	2,668020E+23
1910	7,538485E+22	7,538565E+22	5,801730E+22	5,801823E+22	1,507705E+23	1,160355E+23	2,668060E+23
1911	7,538335E+22	7,538232E+22	5,801688E+22	5,801695E+22	1,507657E+23	1,160338E+23	2,667995E+23
1912	7,538261E+22	7,538537E+22	5,801783E+22	5,801665E+22	1,507680E+23	1,160345E+23	2,668025E+23
1913	7,538494E+22	7,538417E+22	5,801735E+22	5,801750E+22	1,507691E+23	1,160348E+23	2,668040E+23
1914	7,538294E+22	7,538148E+22	5,801812E+22	5,801692E+22	1,507644E+23	1,160350E+23	2,667995E+23
1915	7,538340E+22	7,538538E+22	5,801859E+22	5,801834E+22	1,507688E+23	1,160369E+23	2,668057E+23
1916	7,538408E+22	7,538289E+22	5,801778E+22	5,801914E+22	1,507670E+23	1,160369E+23	2,668039E+23
1917	7,538208E+22	7,538290E+22	5,801904E+22	5,801905E+22	1,507650E+23	1,160381E+23	2,668031E+23
1918	7,538429E+22	7,538530E+22	5,801977E+22	5,802037E+22	1,507696E+23	1,160401E+23	2,668097E+23
1919	7,538418E+22	7,538166E+22	5,801996E+22	5,801982E+22	1,507658E+23	1,160398E+23	2,668056E+23
1920	7,538281E+22	7,538427E+22	5,802145E+22	5,801992E+22	1,507671E+23	1,160414E+23	2,668085E+23
1921	7,538501E+22	7,538476E+22	5,802097E+22	5,802158E+22	1,507698E+23	1,160426E+23	2,668123E+23
1922	7,538273E+22	7,538192E+22	5,802141E+22	5,802091E+22	1,507647E+23	1,160423E+23	2,668070E+23
1923	7,538216E+22	7,538556E+22	5,802200E+22	5,802138E+22	1,507677E+23	1,160434E+23	2,668111E+23
1924	7,538405E+22	7,538326E+22	5,802065E+22	5,802142E+22	1,507673E+23	1,160421E+23	2,668094E+23
1925	7,538238E+22	7,538182E+22	5,802084E+22	5,802017E+22	1,507642E+23	1,160410E+23	2,668052E+23
1926	7,538403E+22	7,538473E+22	5,802054E+22	5,802056E+22	1,507688E+23	1,160411E+23	2,668099E+23
1927	7,538436E+22	7,538200E+22	5,801899E+22	5,801947E+22	1,507664E+23	1,160385E+23	2,668048E+23
1928	7,538209E+22	7,538400E+22	5,801924E+22	5,801855E+22	1,507661E+23	1,160378E+23	2,668039E+23
1929	7,538440E+22	7,538519E+22	5,801847E+22	5,801940E+22	1,507696E+23	1,160379E+23	2,668075E+23
1930	7,538330E+22	7,538156E+22	5,801861E+22	5,801789E+22	1,507649E+23	1,160365E+23	2,668014E+23
1931	7,538219E+22	7,538450E+22	5,801969E+22	5,801794E+22	1,507667E+23	1,160376E+23	2,668043E+23
1932	7,538451E+22	7,538363E+22	5,801852E+22	5,801896E+22	1,507681E+23	1,160375E+23	2,668056E+23
1933	7,538242E+22	7,538168E+22	5,801895E+22	5,801890E+22	1,507641E+23	1,160378E+23	2,668019E+23
1934	7,538263E+22	7,538498E+22	5,801998E+22	5,802031E+22	1,507676E+23	1,160403E+23	2,668079E+23
1935	7,538393E+22	7,538261E+22	5,801941E+22	5,802046E+22	1,507665E+23	1,160399E+23	2,668064E+23
1936	7,538191E+22	7,538282E+22	5,802097E+22	5,802007E+22	1,507647E+23	1,160410E+23	2,668058E+23
1937	7,538445E+22	7,538459E+22	5,802144E+22	5,802183E+22	1,507690E+23	1,160433E+23	2,668123E+23
1938	7,538421E+22	7,538135E+22	5,802175E+22	5,802134E+22	1,507656E+23	1,160431E+23	2,668087E+23
1939	7,538182E+22	7,538417E+22	5,802314E+22	5,802187E+22	1,507660E+23	1,160450E+23	2,668110E+23
1940	7,538398E+22	7,538472E+22	5,802206E+22	5,802331E+22	1,507687E+23	1,160454E+23	2,668141E+23
1941	7,538227E+22	7,538167E+22	5,802237E+22	5,802250E+22	1,507639E+23	1,160449E+23	2,668088E+23
1942	7,538192E+22	7,538427E+22	5,802352E+22	5,802266E+22	1,507662E+23	1,160462E+23	2,668124E+23
1943	7,538443E+22	7,538252E+22	5,802185E+22	5,802221E+22	1,507669E+23	1,160441E+23	2,668110E+23
1944	7,538222E+22	7,538185E+22	5,802188E+22	5,802097E+22	1,507641E+23	1,160429E+23	2,668069E+23
1945	7,538371E+22	7,538460E+22	5,802126E+22	5,802188E+22	1,507683E+23	1,160431E+23	2,668114E+23
1946	7,538392E+22	7,538209E+22	5,802019E+22	5,802050E+22	1,507660E+23	1,160407E+23	2,668067E+23
1947	7,538121E+22	7,538372E+22	5,802098E+22	5,801964E+22	1,507649E+23	1,160406E+23	2,668056E+23
1948	7,538389E+22	7,538464E+22	5,801988E+22	5,802035E+22	1,507685E+23	1,160402E+23	2,668088E+23
1949	7,538315E+22	7,538115E+22	5,801984E+22	5,801943E+22	1,507643E+23	1,160393E+23	2,668036E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,538170E+22	7,538360E+22	5,802128E+22	5,801988E+22	1,507653E+23	1,160412E+23	2,668065E+23
1951	7,538409E+22	7,538343E+22	5,801971E+22	5,802075E+22	1,507675E+23	1,160405E+23	2,668080E+23
1952	7,538175E+22	7,538190E+22	5,802025E+22	5,802047E+22	1,507636E+23	1,160407E+23	2,668044E+23
1953	7,538264E+22	7,538423E+22	5,802130E+22	5,802188E+22	1,507669E+23	1,160432E+23	2,668100E+23
1954	7,538434E+22	7,538193E+22	5,802124E+22	5,802153E+22	1,507663E+23	1,160428E+23	2,668090E+23
1955	7,538180E+22	7,538244E+22	5,802295E+22	5,802140E+22	1,507642E+23	1,160444E+23	2,668086E+23
1956	7,538394E+22	7,538451E+22	5,802275E+22	5,802325E+22	1,507685E+23	1,160460E+23	2,668145E+23
1957	7,538338E+22	7,538181E+22	5,802290E+22	5,802328E+22	1,507652E+23	1,160462E+23	2,668114E+23
1958	7,538069E+22	7,538369E+22	5,802482E+22	5,802375E+22	1,507644E+23	1,160486E+23	2,668130E+23
1959	7,538341E+22	7,538406E+22	5,802367E+22	5,802456E+22	1,507675E+23	1,160482E+23	2,668157E+23
1960	7,538204E+22	7,538117E+22	5,802397E+22	5,802349E+22	1,507632E+23	1,160475E+23	2,668107E+23
1961	7,538228E+22	7,538311E+22	5,802461E+22	5,802399E+22	1,507654E+23	1,160486E+23	2,668140E+23
1962	7,538469E+22	7,538208E+22	5,802297E+22	5,802335E+22	1,507668E+23	1,160463E+23	2,668131E+23
1963	7,538160E+22	7,538202E+22	5,802294E+22	5,802232E+22	1,507636E+23	1,160453E+23	2,668089E+23
1964	7,538291E+22	7,538470E+22	5,802203E+22	5,802292E+22	1,507676E+23	1,160450E+23	2,668126E+23
1965	7,538352E+22	7,538210E+22	5,802126E+22	5,802158E+22	1,507656E+23	1,160428E+23	2,668085E+23
1966	7,538083E+22	7,538265E+22	5,802277E+22	5,802082E+22	1,507635E+23	1,160436E+23	2,668071E+23
1967	7,538367E+22	7,538405E+22	5,802137E+22	5,802147E+22	1,507677E+23	1,160428E+23	2,668106E+23
1968	7,538259E+22	7,538118E+22	5,802116E+22	5,802089E+22	1,507638E+23	1,160420E+23	2,668058E+23
1969	7,538121E+22	7,538306E+22	5,802228E+22	5,802191E+22	1,507643E+23	1,160442E+23	2,668085E+23
1970	7,538388E+22	7,538310E+22	5,802116E+22	5,802230E+22	1,507670E+23	1,160435E+23	2,668104E+23
1971	7,538140E+22	7,538145E+22	5,802204E+22	5,802184E+22	1,507629E+23	1,160439E+23	2,668067E+23
1972	7,538259E+22	7,538378E+22	5,802276E+22	5,802300E+22	1,507664E+23	1,160458E+23	2,668121E+23
1973	7,538447E+22	7,538193E+22	5,802259E+22	5,802300E+22	1,507664E+23	1,160456E+23	2,668120E+23
1974	7,538115E+22	7,538191E+22	5,802482E+22	5,802329E+22	1,507631E+23	1,160481E+23	2,668112E+23
1975	7,538300E+22	7,538465E+22	5,802425E+22	5,802496E+22	1,507676E+23	1,160492E+23	2,668168E+23
1976	7,538242E+22	7,538182E+22	5,802450E+22	5,802483E+22	1,507642E+23	1,160493E+23	2,668136E+23
1977	7,538051E+22	7,538237E+22	5,802631E+22	5,802534E+22	1,507629E+23	1,160517E+23	2,668145E+23
1978	7,538385E+22	7,538291E+22	5,802524E+22	5,802557E+22	1,507668E+23	1,160508E+23	2,668176E+23
1979	7,538206E+22	7,538060E+22	5,802529E+22	5,802463E+22	1,507627E+23	1,160499E+23	2,668126E+23
1980	7,538202E+22	7,538310E+22	5,802517E+22	5,802510E+22	1,507651E+23	1,160503E+23	2,668154E+23
1981	7,538416E+22	7,538275E+22	5,802354E+22	5,802468E+22	1,507669E+23	1,160482E+23	2,668151E+23
1982	7,538069E+22	7,538183E+22	5,802448E+22	5,802361E+22	1,507625E+23	1,160481E+23	2,668106E+23
1983	7,538225E+22	7,538448E+22	5,802363E+22	5,802372E+22	1,507667E+23	1,160474E+23	2,668141E+23
1984	7,538306E+22	7,538184E+22	5,802303E+22	5,802258E+22	1,507649E+23	1,160456E+23	2,668105E+23
1985	7,538078E+22	7,538142E+22	5,802416E+22	5,802254E+22	1,507622E+23	1,160467E+23	2,668089E+23
1986	7,538355E+22	7,538333E+22	5,802272E+22	5,802317E+22	1,507669E+23	1,160459E+23	2,668128E+23
1987	7,538194E+22	7,538110E+22	5,802233E+22	5,802276E+22	1,507630E+23	1,160451E+23	2,668081E+23
1988	7,538088E+22	7,538271E+22	5,802301E+22	5,802330E+22	1,507636E+23	1,160463E+23	2,668099E+23
1989	7,538402E+22	7,538288E+22	5,802229E+22	5,802347E+22	1,507669E+23	1,160458E+23	2,668127E+23
1990	7,538147E+22	7,538069E+22	5,802395E+22	5,802298E+22	1,507622E+23	1,160469E+23	2,668091E+23
1991	7,538233E+22	7,538364E+22	5,802444E+22	5,802403E+22	1,507660E+23	1,160485E+23	2,668144E+23
1992	7,538365E+22	7,538238E+22	5,802436E+22	5,802451E+22	1,507660E+23	1,160489E+23	2,668149E+23
1993	7,538030E+22	7,538141E+22	5,802635E+22	5,802542E+22	1,507617E+23	1,160518E+23	2,668135E+23
1994	7,538236E+22	7,538399E+22	5,802613E+22	5,802661E+22	1,507664E+23	1,160527E+23	2,668191E+23
1995	7,538190E+22	7,538110E+22	5,802635E+22	5,802637E+22	1,507630E+23	1,160527E+23	2,668157E+23
1996	7,538055E+22	7,538144E+22	5,802739E+22	5,802664E+22	1,507620E+23	1,160540E+23	2,668160E+23
1997	7,538415E+22	7,538267E+22	5,802612E+22	5,802699E+22	1,507668E+23	1,160531E+23	2,668199E+23
1998	7,538174E+22	7,538035E+22	5,802650E+22	5,802616E+22	1,507621E+23	1,160527E+23	2,668147E+23

1	14	15	16	17	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							
1999	7,538129E+22	7,538360E+22	5,802610E+22	5,802619E+22	1,507649E+23	1,160523E+23	2,668172E+23
2000	7,538344E+22	7,538317E+22	5,802491E+22	5,802558E+22	1,507666E+23	1,160505E+23	2,668171E+23
2001	7,538047E+22	7,538075E+22	5,802601E+22	5,802480E+22	1,507612E+23	1,160508E+23	2,668120E+23
2002	7,538233E+22	7,538348E+22	5,802536E+22	5,802465E+22	1,507658E+23	1,160500E+23	2,668158E+23
2003	7,538269E+22	7,538119E+22	5,802446E+22	5,802397E+22	1,507639E+23	1,160484E+23	2,668123E+23
2004	7,538028E+22	7,538102E+22	5,802476E+22	5,802411E+22	1,507613E+23	1,160489E+23	2,668102E+23
2005	7,538320E+22	7,538347E+22	5,802331E+22	5,802475E+22	1,507667E+23	1,160481E+23	2,668147E+23
2006	7,538143E+22	7,538055E+22	5,802380E+22	5,802415E+22	1,507620E+23	1,160479E+23	2,668099E+23
2007	7,538066E+22	7,538258E+22	5,802451E+22	5,802408E+22	1,507632E+23	1,160486E+23	2,668118E+23
2008	7,538395E+22	7,538291E+22	5,802412E+22	5,802443E+22	1,507669E+23	1,160486E+23	2,668154E+23
2009	7,538136E+22	7,537991E+22	5,802576E+22	5,802478E+22	1,507613E+23	1,160505E+23	2,668118E+23
2010	7,538179E+22	7,538337E+22	5,802629E+22	5,802582E+22	1,507652E+23	1,160521E+23	2,668173E+23
2011	7,538248E+22	7,538235E+22	5,802609E+22	5,802660E+22	1,507648E+23	1,160527E+23	2,668175E+23
2012	7,537964E+22	7,538069E+22	5,802755E+22	5,802718E+22	1,507603E+23	1,160547E+23	2,668151E+23
2013	7,538246E+22	7,538326E+22	5,802738E+22	5,802807E+22	1,507657E+23	1,160554E+23	2,668212E+23
2014	7,538204E+22	7,538011E+22	5,802795E+22	5,802776E+22	1,507621E+23	1,160557E+23	2,668179E+23
2015	7,538054E+22	7,538144E+22	5,802839E+22	5,802766E+22	1,507620E+23	1,160560E+23	2,668180E+23
2016	7,538366E+22	7,538337E+22	5,802727E+22	5,802816E+22	1,507670E+23	1,160554E+23	2,668225E+23
2017	7,538116E+22	7,538021E+22	5,802774E+22	5,802768E+22	1,507614E+23	1,160554E+23	2,668168E+23
2018	7,538078E+22	7,538318E+22	5,802787E+22	5,802710E+22	1,507640E+23	1,160550E+23	2,668189E+23
2019	7,538283E+22	7,538271E+22	5,802678E+22	5,802664E+22	1,507655E+23	1,160534E+23	2,668190E+23
2020	7,538033E+22	7,537973E+22	5,802703E+22	5,802597E+22	1,507601E+23	1,160530E+23	2,668131E+23
2021	7,538223E+22	7,538290E+22	5,802621E+22	5,802615E+22	1,507651E+23	1,160524E+23	2,668175E+23
2022	7,538212E+22	7,538074E+22	5,802552E+22	5,802575E+22	1,507629E+23	1,160513E+23	2,668141E+23
2023	7,537965E+22	7,538118E+22	5,802541E+22	5,802537E+22	1,507608E+23	1,160508E+23	2,668116E+23
2024	7,538290E+22	7,538357E+22	5,802463E+22	5,802574E+22	1,507665E+23	1,160504E+23	2,668168E+23
2025	7,538164E+22	7,537963E+22	5,802537E+22	5,802528E+22	1,507613E+23	1,160507E+23	2,668119E+23
2026	7,538087E+22	7,538197E+22	5,802643E+22	5,802497E+22	1,507628E+23	1,160514E+23	2,668142E+23
2027	7,538334E+22	7,538294E+22	5,802598E+22	5,802596E+22	1,507663E+23	1,160519E+23	2,668182E+23
2028	7,538046E+22	7,537978E+22	5,802695E+22	5,802672E+22	1,507602E+23	1,160537E+23	2,668139E+23
2029	7,538093E+22	7,538335E+22	5,802763E+22	5,802784E+22	1,507643E+23	1,160555E+23	2,668197E+23
2030	7,538173E+22	7,538152E+22	5,802803E+22	5,802851E+22	1,507633E+23	1,160565E+23	2,668198E+23
2031	7,537942E+22	7,538017E+22	5,802901E+22	5,802844E+22	1,507596E+23	1,160574E+23	2,668170E+23
2032	7,538270E+22	7,538294E+22	5,802893E+22	5,802930E+22	1,507656E+23	1,160582E+23	2,668239E+23
2033	7,538224E+22	7,537939E+22	5,802928E+22	5,802943E+22	1,507616E+23	1,160587E+23	2,668203E+23
2034	7,538039E+22	7,538152E+22	5,802972E+22	5,802895E+22	1,507619E+23	1,160587E+23	2,668206E+23
2035	7,538283E+22	7,538364E+22	5,802866E+22	5,802946E+22	1,507665E+23	1,160581E+23	2,668246E+23
2036	7,538061E+22	7,537965E+22	5,802885E+22	5,802875E+22	1,507603E+23	1,160576E+23	2,668179E+23
2037	7,538068E+22	7,538253E+22	5,802909E+22	5,802800E+22	1,507632E+23	1,160571E+23	2,668203E+23
2038	7,538244E+22	7,538166E+22	5,802826E+22	5,802787E+22	1,507641E+23	1,160561E+23	2,668202E+23
2039	7,537980E+22	7,537958E+22	5,802781E+22	5,802712E+22	1,507594E+23	1,160549E+23	2,668143E+23
2040	7,538167E+22	7,538317E+22	5,802708E+22	5,802752E+22	1,507648E+23	1,160546E+23	2,668194E+23
2041	7,538166E+22	7,538028E+22	5,802659E+22	5,802736E+22	1,507619E+23	1,160539E+23	2,668159E+23
2042	7,537958E+22	7,538081E+22	5,802695E+22	5,802626E+22	1,507604E+23	1,160532E+23	2,668136E+23
2043	7,538263E+22	7,538333E+22	5,802647E+22	5,802675E+22	1,507660E+23	1,160532E+23	2,668192E+23
2044	7,538159E+22	7,537905E+22	5,802674E+22	5,802662E+22	1,507606E+23	1,160534E+23	2,668140E+23
2045	7,538057E+22	7,538180E+22	5,802784E+22	5,802667E+22	1,507624E+23	1,160545E+23	2,668169E+23
2046	7,538229E+22	7,538272E+22	5,802768E+22	5,802816E+22	1,507650E+23	1,160558E+23	2,668208E+23
2047	7,537950E+22	7,537979E+22	5,802820E+22	5,802847E+22	1,507593E+23	1,160567E+23	2,668160E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,538062E+22	7,538288E+22	5,802935E+22	5,802934E+22	1,507635E+23	1,160587E+23	2,668222E+23
2049	7,538205E+22	7,538023E+22	5,802972E+22	5,803009E+22	1,507623E+23	1,160598E+23	2,668221E+23
2050	7,537997E+22	7,537940E+22	5,803058E+22	5,802954E+22	1,507594E+23	1,160601E+23	2,668195E+23
2051	7,538241E+22	7,538309E+22	5,803042E+22	5,803067E+22	1,507655E+23	1,160611E+23	2,668266E+23
2052	7,538170E+22	7,537956E+22	5,803008E+22	5,803084E+22	1,507613E+23	1,160609E+23	2,668222E+23
2053	7,537969E+22	7,538165E+22	5,803090E+22	5,803016E+22	1,507613E+23	1,160611E+23	2,668224E+23
2054	7,538193E+22	7,538315E+22	5,803049E+22	5,803070E+22	1,507651E+23	1,160612E+23	2,668263E+23
2055	7,538003E+22	7,537923E+22	5,803015E+22	5,802966E+22	1,507593E+23	1,160598E+23	2,668191E+23
2056	7,538044E+22	7,538201E+22	5,803050E+22	5,802925E+22	1,507625E+23	1,160597E+23	2,668222E+23
2057	7,538217E+22	7,538077E+22	5,802935E+22	5,802969E+22	1,507629E+23	1,160590E+23	2,668220E+23
2058	7,537953E+22	7,537936E+22	5,802870E+22	5,802853E+22	1,507589E+23	1,160572E+23	2,668161E+23
2059	7,538111E+22	7,538317E+22	5,802822E+22	5,802880E+22	1,507643E+23	1,160570E+23	2,668213E+23
2060	7,538165E+22	7,537966E+22	5,802751E+22	5,802832E+22	1,507613E+23	1,160558E+23	2,668171E+23
2061	7,537989E+22	7,538037E+22	5,802829E+22	5,802705E+22	1,507603E+23	1,160553E+23	2,668156E+23
2062	7,538230E+22	7,538283E+22	5,802825E+22	5,802805E+22	1,507651E+23	1,160563E+23	2,668214E+23
2063	7,538076E+22	7,537933E+22	5,802802E+22	5,802807E+22	1,507601E+23	1,160561E+23	2,668162E+23
2064	7,537967E+22	7,538205E+22	5,802940E+22	5,802853E+22	1,507617E+23	1,160579E+23	2,668197E+23
2065	7,538148E+22	7,538190E+22	5,802945E+22	5,803028E+22	1,507634E+23	1,160597E+23	2,668231E+23
2066	7,537943E+22	7,537901E+22	5,803010E+22	5,802990E+22	1,507584E+23	1,160600E+23	2,668184E+23
2067	7,538067E+22	7,538219E+22	5,803116E+22	5,803071E+22	1,507629E+23	1,160619E+23	2,668247E+23
2068	7,538228E+22	7,537946E+22	5,803084E+22	5,803160E+22	1,507617E+23	1,160624E+23	2,668242E+23
2069	7,538000E+22	7,537949E+22	5,803164E+22	5,803102E+22	1,507595E+23	1,160627E+23	2,668221E+23
2070	7,538148E+22	7,538319E+22	5,803181E+22	5,803239E+22	1,507647E+23	1,160642E+23	2,668289E+23
2071	7,538067E+22	7,537991E+22	5,803127E+22	5,803200E+22	1,507606E+23	1,160633E+23	2,668238E+23
2072	7,537926E+22	7,538133E+22	5,803256E+22	5,803118E+22	1,507606E+23	1,160637E+23	2,668243E+23
2073	7,538168E+22	7,538190E+22	5,803213E+22	5,803203E+22	1,507636E+23	1,160642E+23	2,668277E+23
2074	7,538006E+22	7,537847E+22	5,803149E+22	5,803077E+22	1,507585E+23	1,160623E+23	2,668208E+23
2075	7,537989E+22	7,538179E+22	5,803164E+22	5,803068E+22	1,507617E+23	1,160623E+23	2,668240E+23
2076	7,538169E+22	7,538049E+22	5,802987E+22	5,803120E+22	1,507622E+23	1,160611E+23	2,668233E+23
2077	7,537937E+22	7,537924E+22	5,802960E+22	5,802958E+22	1,507586E+23	1,160592E+23	2,668178E+23
2078	7,538074E+22	7,538270E+22	5,802981E+22	5,802984E+22	1,507634E+23	1,160597E+23	2,668231E+23
2079	7,538144E+22	7,537962E+22	5,802879E+22	5,802907E+22	1,507611E+23	1,160579E+23	2,668189E+23
2080	7,537975E+22	7,538020E+22	5,802997E+22	5,802835E+22	1,507600E+23	1,160583E+23	2,668183E+23
2081	7,538162E+22	7,538236E+22	5,802989E+22	5,803009E+22	1,507640E+23	1,160600E+23	2,668239E+23
2082	7,538011E+22	7,537913E+22	5,802951E+22	5,802991E+22	1,507592E+23	1,160594E+23	2,668187E+23
2083	7,537889E+22	7,538160E+22	5,803118E+22	5,803030E+22	1,507605E+23	1,160615E+23	2,668220E+23
2084	7,538149E+22	7,538077E+22	5,803071E+22	5,803178E+22	1,507623E+23	1,160625E+23	2,668247E+23
2085	7,537990E+22	7,537819E+22	5,803139E+22	5,803105E+22	1,507581E+23	1,160624E+23	2,668205E+23
2086	7,538052E+22	7,538176E+22	5,803269E+22	5,803224E+22	1,507623E+23	1,160649E+23	2,668272E+23
2087	7,538162E+22	7,538007E+22	5,803181E+22	5,803290E+22	1,507617E+23	1,160647E+23	2,668264E+23
2088	7,537927E+22	7,538004E+22	5,803311E+22	5,803251E+22	1,507593E+23	1,160656E+23	2,668249E+23
2089	7,538056E+22	7,538271E+22	5,803367E+22	5,803398E+22	1,507633E+23	1,160676E+23	2,668309E+23
2090	7,538033E+22	7,537927E+22	5,803319E+22	5,803307E+22	1,507596E+23	1,160663E+23	2,668259E+23
2091	7,537891E+22	7,538052E+22	5,803441E+22	5,803243E+22	1,507594E+23	1,160668E+23	2,668263E+23
2092	7,538158E+22	7,538082E+22	5,803305E+22	5,803359E+22	1,507624E+23	1,160666E+23	2,668290E+23
2093	7,538000E+22	7,537818E+22	5,803216E+22	5,803225E+22	1,507582E+23	1,160644E+23	2,668226E+23
2094	7,537928E+22	7,538160E+22	5,803249E+22	5,803229E+22	1,507609E+23	1,160648E+23	2,668257E+23
2095	7,538119E+22	7,538063E+22	5,803061E+22	5,803201E+22	1,507618E+23	1,160626E+23	2,668244E+23
2096	7,537958E+22	7,537904E+22	5,803098E+22	5,803027E+22	1,507586E+23	1,160612E+23	2,668199E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,538067E+22	7,538184E+22	5,803147E+22	5,803089E+22	1,507625E+23	1,160624E+23	2,668249E+23
2098	7,538129E+22	7,537946E+22	5,803040E+22	5,803019E+22	1,507607E+23	1,160606E+23	2,668213E+23
2099	7,537886E+22	7,538026E+22	5,803156E+22	5,802999E+22	1,507591E+23	1,160615E+23	2,668207E+23
2100	7,538062E+22	7,538186E+22	5,803102E+22	5,803203E+22	1,507625E+23	1,160630E+23	2,668255E+23
2101	7,537971E+22	7,537864E+22	5,803095E+22	5,803148E+22	1,507583E+23	1,160624E+23	2,668208E+23
2102	7,537855E+22	7,538064E+22	5,803291E+22	5,803195E+22	1,507592E+23	1,160649E+23	2,668241E+23
2103	7,538141E+22	7,538040E+22	5,803199E+22	5,803302E+22	1,507618E+23	1,160650E+23	2,668268E+23
2104	7,538013E+22	7,537812E+22	5,803284E+22	5,803256E+22	1,507582E+23	1,160654E+23	2,668236E+23
2105	7,537997E+22	7,538159E+22	5,803420E+22	5,803413E+22	1,507616E+23	1,160683E+23	2,668299E+23
2106	7,538105E+22	7,538034E+22	5,803338E+22	5,803435E+22	1,507614E+23	1,160677E+23	2,668291E+23
2107	7,537853E+22	7,537978E+22	5,803510E+22	5,803382E+22	1,507583E+23	1,160689E+23	2,668272E+23
2108	7,538029E+22	7,538158E+22	5,803518E+22	5,803524E+22	1,507619E+23	1,160704E+23	2,668323E+23
2109	7,538052E+22	7,537837E+22	5,803456E+22	5,803421E+22	1,507589E+23	1,160688E+23	2,668277E+23
2110	7,537849E+22	7,537982E+22	5,803563E+22	5,803407E+22	1,507583E+23	1,160697E+23	2,668280E+23
2111	7,538090E+22	7,538104E+22	5,803356E+22	5,803488E+22	1,507619E+23	1,160684E+23	2,668304E+23
2112	7,537967E+22	7,537841E+22	5,803304E+22	5,803351E+22	1,507581E+23	1,160665E+23	2,668246E+23
2113	7,537889E+22	7,538117E+22	5,803385E+22	5,803344E+22	1,507601E+23	1,160673E+23	2,668274E+23
2114	7,538130E+22	7,538034E+22	5,803210E+22	5,803260E+22	1,507616E+23	1,160647E+23	2,668264E+23
2115	7,537936E+22	7,537868E+22	5,803281E+22	5,803123E+22	1,507580E+23	1,160640E+23	2,668221E+23
2116	7,538024E+22	7,538122E+22	5,803265E+22	5,803238E+22	1,507615E+23	1,160650E+23	2,668265E+23
2117	7,538069E+22	7,537926E+22	5,803153E+22	5,803189E+22	1,507599E+23	1,160634E+23	2,668234E+23
2118	7,537779E+22	7,537981E+22	5,803294E+22	5,803206E+22	1,507576E+23	1,160650E+23	2,668226E+23
2119	7,537999E+22	7,538140E+22	5,803213E+22	5,803336E+22	1,507614E+23	1,160655E+23	2,668269E+23
2120	7,538005E+22	7,537798E+22	5,803242E+22	5,803271E+22	1,507580E+23	1,160651E+23	2,668232E+23
2121	7,537874E+22	7,537975E+22	5,803447E+22	5,803340E+22	1,507585E+23	1,160679E+23	2,668264E+23
2122	7,538148E+22	7,538041E+22	5,803348E+22	5,803427E+22	1,507619E+23	1,160677E+23	2,668296E+23
2123	7,537945E+22	7,537854E+22	5,803461E+22	5,803409E+22	1,507580E+23	1,160687E+23	2,668267E+23
2124	7,537914E+22	7,538135E+22	5,803566E+22	5,803577E+22	1,507605E+23	1,160714E+23	2,668319E+23
2125	7,538063E+22	7,537996E+22	5,803523E+22	5,803567E+22	1,507606E+23	1,160709E+23	2,668315E+23
2126	7,537799E+22	7,537889E+22	5,803701E+22	5,803544E+22	1,507569E+23	1,160725E+23	2,668293E+23
2127	7,537984E+22	7,538098E+22	5,803639E+22	5,803654E+22	1,507608E+23	1,160729E+23	2,668337E+23
2128	7,538056E+22	7,537810E+22	5,803562E+22	5,803586E+22	1,507587E+23	1,160715E+23	2,668301E+23
2129	7,537799E+22	7,537941E+22	5,803650E+22	5,803591E+22	1,507574E+23	1,160724E+23	2,668298E+23
2130	7,538063E+22	7,538113E+22	5,803453E+22	5,803599E+22	1,507618E+23	1,160705E+23	2,668323E+23
2131	7,537949E+22	7,537826E+22	5,803447E+22	5,803417E+22	1,507578E+23	1,160686E+23	2,668264E+23
2132	7,537890E+22	7,538027E+22	5,803499E+22	5,803411E+22	1,507592E+23	1,160691E+23	2,668283E+23
2133	7,538142E+22	7,537996E+22	5,803344E+22	5,803334E+22	1,507614E+23	1,160668E+23	2,668282E+23
2134	7,537856E+22	7,537838E+22	5,803417E+22	5,803284E+22	1,507569E+23	1,160670E+23	2,668240E+23
2135	7,537896E+22	7,538137E+22	5,803359E+22	5,803389E+22	1,507603E+23	1,160675E+23	2,668278E+23
2136	7,538008E+22	7,537914E+22	5,803284E+22	5,803360E+22	1,507592E+23	1,160664E+23	2,668257E+23
2137	7,537731E+22	7,537884E+22	5,803456E+22	5,803372E+22	1,507562E+23	1,160683E+23	2,668244E+23
2138	7,538029E+22	7,538072E+22	5,803377E+22	5,803446E+22	1,507610E+23	1,160682E+23	2,668292E+23
2139	7,538025E+22	7,537758E+22	5,803424E+22	5,803396E+22	1,507578E+23	1,160682E+23	2,668260E+23
2140	7,537867E+22	7,537936E+22	5,803569E+22	5,803506E+22	1,507580E+23	1,160708E+23	2,668288E+23
2141	7,538114E+22	7,538068E+22	5,803486E+22	5,803590E+22	1,507618E+23	1,160708E+23	2,668326E+23
2142	7,537843E+22	7,537847E+22	5,803639E+22	5,803605E+22	1,507569E+23	1,160724E+23	2,668293E+23
2143	7,537830E+22	7,538101E+22	5,803722E+22	5,803700E+22	1,507593E+23	1,160742E+23	2,668335E+23
2144	7,538067E+22	7,537924E+22	5,803691E+22	5,803705E+22	1,507599E+23	1,160740E+23	2,668339E+23
2145	7,537779E+22	7,537792E+22	5,803851E+22	5,803713E+22	1,507557E+23	1,160756E+23	2,668313E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,537973E+22	7,538076E+22	5,803742E+22	5,803787E+22	1,507605E+23	1,160753E+23	2,668358E+23
2147	7,537996E+22	7,537828E+22	5,803679E+22	5,803717E+22	1,507582E+23	1,160740E+23	2,668322E+23
2148	7,537759E+22	7,537908E+22	5,803731E+22	5,803708E+22	1,507567E+23	1,160744E+23	2,668311E+23
2149	7,538064E+22	7,538076E+22	5,803583E+22	5,803663E+22	1,507614E+23	1,160725E+23	2,668339E+23
2150	7,537914E+22	7,537773E+22	5,803606E+22	5,803522E+22	1,507569E+23	1,160713E+23	2,668282E+23
2151	7,537836E+22	7,537997E+22	5,803611E+22	5,803497E+22	1,507583E+23	1,160711E+23	2,668294E+23
2152	7,538102E+22	7,537990E+22	5,803460E+22	5,803490E+22	1,507609E+23	1,160695E+23	2,668304E+23
2153	7,537759E+22	7,537800E+22	5,803534E+22	5,803485E+22	1,507556E+23	1,160702E+23	2,668258E+23
2154	7,537846E+22	7,538098E+22	5,803487E+22	5,803530E+22	1,507594E+23	1,160702E+23	2,668296E+23
2155	7,537995E+22	7,537851E+22	5,803458E+22	5,803473E+22	1,507585E+23	1,160693E+23	2,668278E+23
2156	7,537770E+22	7,537774E+22	5,803573E+22	5,803492E+22	1,507554E+23	1,160707E+23	2,668261E+23
2157	7,538073E+22	7,538034E+22	5,803516E+22	5,803561E+22	1,507611E+23	1,160708E+23	2,668318E+23
2158	7,537968E+22	7,537777E+22	5,803570E+22	5,803575E+22	1,507574E+23	1,160715E+23	2,668289E+23
2159	7,537753E+22	7,537984E+22	5,803694E+22	5,803655E+22	1,507574E+23	1,160735E+23	2,668309E+23
2160	7,538051E+22	7,538088E+22	5,803662E+22	5,803760E+22	1,507614E+23	1,160742E+23	2,668356E+23
2161	7,537774E+22	7,537765E+22	5,803842E+22	5,803783E+22	1,507554E+23	1,160763E+23	2,668316E+23
2162	7,537814E+22	7,538023E+22	5,803909E+22	5,803836E+22	1,507584E+23	1,160775E+23	2,668358E+23
2163	7,538053E+22	7,537864E+22	5,803864E+22	5,803852E+22	1,507592E+23	1,160772E+23	2,668363E+23
2164	7,537759E+22	7,537715E+22	5,803926E+22	5,803889E+22	1,507547E+23	1,160782E+23	2,668329E+23
2165	7,537959E+22	7,538065E+22	5,803832E+22	5,803924E+22	1,507602E+23	1,160776E+23	2,668378E+23
2166	7,537941E+22	7,537813E+22	5,803793E+22	5,803847E+22	1,507575E+23	1,160764E+23	2,668339E+23
2167	7,537724E+22	7,537878E+22	5,803836E+22	5,803752E+22	1,507560E+23	1,160759E+23	2,668319E+23
2168	7,538086E+22	7,538046E+22	5,803713E+22	5,803735E+22	1,507613E+23	1,160745E+23	2,668358E+23
2169	7,537864E+22	7,537721E+22	5,803746E+22	5,803655E+22	1,507558E+23	1,160740E+23	2,668299E+23
2170	7,537764E+22	7,537998E+22	5,803732E+22	5,803627E+22	1,507576E+23	1,160736E+23	2,668312E+23
2171	7,538000E+22	7,537993E+22	5,803609E+22	5,803641E+22	1,507599E+23	1,160725E+23	2,668324E+23
2172	7,537706E+22	7,537721E+22	5,803643E+22	5,803644E+22	1,507543E+23	1,160729E+23	2,668271E+23
2173	7,537870E+22	7,538014E+22	5,803633E+22	5,803643E+22	1,507588E+23	1,160728E+23	2,668316E+23
2174	7,537991E+22	7,537788E+22	5,803611E+22	5,803625E+22	1,507578E+23	1,160724E+23	2,668302E+23
2175	7,537755E+22	7,537758E+22	5,803681E+22	5,803613E+22	1,507551E+23	1,160729E+23	2,668281E+23
2176	7,538056E+22	7,538063E+22	5,803639E+22	5,803736E+22	1,507612E+23	1,160737E+23	2,668349E+23
2177	7,537871E+22	7,537788E+22	5,803730E+22	5,803782E+22	1,507566E+23	1,160751E+23	2,668317E+23
2178	7,537691E+22	7,537967E+22	5,803872E+22	5,803791E+22	1,507566E+23	1,160766E+23	2,668332E+23
2179	7,538003E+22	7,538020E+22	5,803885E+22	5,803881E+22	1,507602E+23	1,160777E+23	2,668379E+23
2180	7,537777E+22	7,537641E+22	5,803989E+22	5,803932E+22	1,507542E+23	1,160792E+23	2,668334E+23
2181	7,537833E+22	7,537940E+22	5,804046E+22	5,803977E+22	1,507577E+23	1,160802E+23	2,668380E+23
2182	7,537987E+22	7,537851E+22	5,803980E+22	5,804040E+22	1,507584E+23	1,160802E+23	2,668386E+23
2183	7,537686E+22	7,537732E+22	5,803994E+22	5,804009E+22	1,507542E+23	1,160800E+23	2,668342E+23
2184	7,537943E+22	7,538069E+22	5,803948E+22	5,804034E+22	1,507601E+23	1,160798E+23	2,668399E+23
2185	7,537901E+22	7,537772E+22	5,803951E+22	5,803953E+22	1,507567E+23	1,160790E+23	2,668358E+23
2186	7,537713E+22	7,537842E+22	5,803991E+22	5,803823E+22	1,507555E+23	1,160781E+23	2,668337E+23
2187	7,538035E+22	7,538027E+22	5,803884E+22	5,803848E+22	1,507606E+23	1,160773E+23	2,668379E+23
2188	7,537799E+22	7,537670E+22	5,803835E+22	5,803838E+22	1,507547E+23	1,160767E+23	2,668314E+23
2189	7,537713E+22	7,537954E+22	5,803844E+22	5,803791E+22	1,507567E+23	1,160764E+23	2,668330E+23
2190	7,537935E+22	7,537933E+22	5,803740E+22	5,803808E+22	1,507587E+23	1,160755E+23	2,668342E+23
2191	7,537701E+22	7,537644E+22	5,803738E+22	5,803731E+22	1,507534E+23	1,160747E+23	2,668281E+23
2192	7,537933E+22	7,537975E+22	5,803746E+22	5,803756E+22	1,507591E+23	1,160750E+23	2,668341E+23
2193	7,537971E+22	7,537771E+22	5,803740E+22	5,803775E+22	1,507574E+23	1,160751E+23	2,668326E+23
2194	7,537696E+22	7,537799E+22	5,803823E+22	5,803744E+22	1,507549E+23	1,160757E+23	2,668306E+23

1	14	15	16	17	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							
2195	7,537955E+22	7,538100E+22	5,803837E+22	5,803875E+22	1,507605E+23	1,160771E+23	2,668377E+23
2196	7,537800E+22	7,537712E+22	5,803905E+22	5,803950E+22	1,507551E+23	1,160786E+23	2,668337E+23
2197	7,537682E+22	7,537863E+22	5,804081E+22	5,803935E+22	1,507555E+23	1,160802E+23	2,668356E+23
2198	7,537964E+22	7,537929E+22	5,804068E+22	5,804069E+22	1,507589E+23	1,160814E+23	2,668403E+23
2199	7,537746E+22	7,537583E+22	5,804087E+22	5,804088E+22	1,507533E+23	1,160818E+23	2,668350E+23
2200	7,537828E+22	7,537944E+22	5,804128E+22	5,804162E+22	1,507577E+23	1,160829E+23	2,668406E+23
2201	7,537917E+22	7,537851E+22	5,804090E+22	5,804215E+22	1,507577E+23	1,160831E+23	2,668407E+23
2202	7,537664E+22	7,537727E+22	5,804132E+22	5,804087E+22	1,507539E+23	1,160822E+23	2,668361E+23
2203	7,537929E+22	7,538036E+22	5,804135E+22	5,804090E+22	1,507597E+23	1,160822E+23	2,668419E+23
2204	7,537893E+22	7,537696E+22	5,804080E+22	5,804060E+22	1,507559E+23	1,160814E+23	2,668373E+23
2205	7,537693E+22	7,537795E+22	5,804125E+22	5,803945E+22	1,507549E+23	1,160807E+23	2,668356E+23
2206	7,537911E+22	7,538019E+22	5,804005E+22	5,804034E+22	1,507593E+23	1,160804E+23	2,668397E+23
2207	7,537704E+22	7,537647E+22	5,803911E+22	5,803976E+22	1,507535E+23	1,160789E+23	2,668324E+23
2208	7,537713E+22	7,537896E+22	5,803949E+22	5,803927E+22	1,507561E+23	1,160788E+23	2,668348E+23
2209	7,537924E+22	7,537855E+22	5,803881E+22	5,803942E+22	1,507578E+23	1,160782E+23	2,668360E+23
2210	7,537733E+22	7,537609E+22	5,803864E+22	5,803812E+22	1,507534E+23	1,160768E+23	2,668302E+23
2211	7,537910E+22	7,537974E+22	5,803906E+22	5,803865E+22	1,507588E+23	1,160777E+23	2,668366E+23
2212	7,537913E+22	7,537768E+22	5,803856E+22	5,803948E+22	1,507568E+23	1,160780E+23	2,668349E+23
2213	7,537645E+22	7,537773E+22	5,803994E+22	5,803900E+22	1,507542E+23	1,160789E+23	2,668331E+23
2214	7,537857E+22	7,538042E+22	5,804043E+22	5,804049E+22	1,507590E+23	1,160809E+23	2,668399E+23
2215	7,537767E+22	7,537618E+22	5,804057E+22	5,804077E+22	1,507539E+23	1,160813E+23	2,668352E+23
2216	7,537708E+22	7,537786E+22	5,804216E+22	5,804105E+22	1,507549E+23	1,160832E+23	2,668381E+23
2217	7,537914E+22	7,537889E+22	5,804199E+22	5,804270E+22	1,507580E+23	1,160847E+23	2,668427E+23
2218	7,537699E+22	7,537610E+22	5,804195E+22	5,804233E+22	1,507531E+23	1,160843E+23	2,668374E+23
2219	7,537770E+22	7,537971E+22	5,804290E+22	5,804282E+22	1,507574E+23	1,160857E+23	2,668431E+23
2220	7,537892E+22	7,537807E+22	5,804233E+22	5,804336E+22	1,507570E+23	1,160857E+23	2,668427E+23
2221	7,537679E+22	7,537662E+22	5,804317E+22	5,804179E+22	1,507534E+23	1,160850E+23	2,668384E+23
2222	7,537871E+22	7,537987E+22	5,804309E+22	5,804229E+22	1,507586E+23	1,160854E+23	2,668440E+23
2223	7,537829E+22	7,537651E+22	5,804174E+22	5,804197E+22	1,507548E+23	1,160837E+23	2,668385E+23
2224	7,537653E+22	7,537782E+22	5,804201E+22	5,804128E+22	1,507543E+23	1,160833E+23	2,668376E+23
2225	7,537828E+22	7,537972E+22	5,804103E+22	5,804205E+22	1,507580E+23	1,160831E+23	2,668411E+23
2226	7,537695E+22	7,537590E+22	5,804022E+22	5,804051E+22	1,507529E+23	1,160807E+23	2,668336E+23
2227	7,537741E+22	7,537843E+22	5,804096E+22	5,803983E+22	1,507558E+23	1,160808E+23	2,668366E+23
2228	7,537947E+22	7,537787E+22	5,803983E+22	5,804048E+22	1,507573E+23	1,160803E+23	2,668376E+23
2229	7,537731E+22	7,537598E+22	5,804006E+22	5,803930E+22	1,507533E+23	1,160794E+23	2,668327E+23
2230	7,537788E+22	7,538005E+22	5,804064E+22	5,804034E+22	1,507579E+23	1,160810E+23	2,668389E+23
2231	7,537807E+22	7,537757E+22	5,803997E+22	5,804093E+22	1,507556E+23	1,160809E+23	2,668365E+23
2232	7,537615E+22	7,537720E+22	5,804164E+22	5,804070E+22	1,507534E+23	1,160823E+23	2,668357E+23
2233	7,537800E+22	7,537950E+22	5,804233E+22	5,804239E+22	1,507575E+23	1,160847E+23	2,668422E+23
2234	7,537761E+22	7,537560E+22	5,804214E+22	5,804229E+22	1,507532E+23	1,160844E+23	2,668376E+23
2235	7,537690E+22	7,537765E+22	5,804367E+22	5,804274E+22	1,507546E+23	1,160864E+23	2,668410E+23
2236	7,537877E+22	7,537868E+22	5,804299E+22	5,804467E+22	1,507575E+23	1,160877E+23	2,668451E+23
2237	7,537700E+22	7,537588E+22	5,804346E+22	5,804364E+22	1,507529E+23	1,160871E+23	2,668400E+23
2238	7,537722E+22	7,537933E+22	5,804473E+22	5,804394E+22	1,507565E+23	1,160887E+23	2,668452E+23
2239	7,537886E+22	7,537751E+22	5,804367E+22	5,804409E+22	1,507564E+23	1,160878E+23	2,668441E+23
2240	7,537692E+22	7,537619E+22	5,804432E+22	5,804306E+22	1,507531E+23	1,160874E+23	2,668405E+23
2241	7,537764E+22	7,537962E+22	5,804431E+22	5,804402E+22	1,507573E+23	1,160883E+23	2,668456E+23
2242	7,537742E+22	7,537659E+22	5,804268E+22	5,804321E+22	1,507540E+23	1,160859E+23	2,668399E+23
2243	7,537588E+22	7,537748E+22	5,804333E+22	5,804239E+22	1,507534E+23	1,160857E+23	2,668391E+23

1	14	15	16	17	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							
2244	7,537818E+22	7,537879E+22	5,804217E+22	5,804322E+22	1,507570E+23	1,160854E+23	2,668423E+23
2245	7,537751E+22	7,537510E+22	5,804162E+22	5,804131E+22	1,507526E+23	1,160829E+23	2,668355E+23
2246	7,537714E+22	7,537814E+22	5,804238E+22	5,804104E+22	1,507553E+23	1,160834E+23	2,668387E+23
2247	7,537900E+22	7,537793E+22	5,804070E+22	5,804173E+22	1,507569E+23	1,160824E+23	2,668394E+23
2248	7,537681E+22	7,537625E+22	5,804111E+22	5,804112E+22	1,507531E+23	1,160822E+23	2,668353E+23
2249	7,537666E+22	7,537978E+22	5,804235E+22	5,804220E+22	1,507564E+23	1,160846E+23	2,668410E+23
2250	7,537763E+22	7,537697E+22	5,804178E+22	5,804211E+22	1,507546E+23	1,160839E+23	2,668385E+23
2251	7,537616E+22	7,537641E+22	5,804359E+22	5,804200E+22	1,507526E+23	1,160856E+23	2,668382E+23
2252	7,537803E+22	7,537857E+22	5,804365E+22	5,804420E+22	1,507566E+23	1,160878E+23	2,668444E+23
2253	7,537766E+22	7,537530E+22	5,804356E+22	5,804396E+22	1,507530E+23	1,160875E+23	2,668405E+23
2254	7,537612E+22	7,537787E+22	5,804513E+22	5,804451E+22	1,507540E+23	1,160896E+23	2,668436E+23
2255	7,537832E+22	7,537847E+22	5,804426E+22	5,804586E+22	1,507568E+23	1,160901E+23	2,668469E+23
2256	7,537713E+22	7,537565E+22	5,804502E+22	5,804489E+22	1,507528E+23	1,160899E+23	2,668427E+23
2257	7,537670E+22	7,537879E+22	5,804649E+22	5,804525E+22	1,507555E+23	1,160917E+23	2,668472E+23
2258	7,537842E+22	7,537718E+22	5,804512E+22	5,804516E+22	1,507556E+23	1,160903E+23	2,668459E+23
2259	7,537626E+22	7,537612E+22	5,804566E+22	5,804453E+22	1,507524E+23	1,160902E+23	2,668426E+23
2260	7,537683E+22	7,537910E+22	5,804511E+22	5,804582E+22	1,507559E+23	1,160909E+23	2,668469E+23
2261	7,537730E+22	7,537588E+22	5,804394E+22	5,804440E+22	1,507532E+23	1,160883E+23	2,668415E+23
2262	7,537570E+22	7,537679E+22	5,804464E+22	5,804335E+22	1,507525E+23	1,160880E+23	2,668405E+23
2263	7,537845E+22	7,537806E+22	5,804300E+22	5,804385E+22	1,507565E+23	1,160869E+23	2,668434E+23
2264	7,537783E+22	7,537510E+22	5,804246E+22	5,804243E+22	1,507529E+23	1,160849E+23	2,668378E+23
2265	7,537612E+22	7,537839E+22	5,804359E+22	5,804256E+22	1,507545E+23	1,160861E+23	2,668407E+23
2266	7,537798E+22	7,537836E+22	5,804208E+22	5,804294E+22	1,507563E+23	1,160850E+23	2,668414E+23
2267	7,537605E+22	7,537609E+22	5,804306E+22	5,804250E+22	1,507521E+23	1,160856E+23	2,668377E+23
2268	7,537620E+22	7,537871E+22	5,804415E+22	5,804390E+22	1,507549E+23	1,160881E+23	2,668430E+23
2269	7,537795E+22	7,537588E+22	5,804371E+22	5,804365E+22	1,507538E+23	1,160874E+23	2,668412E+23
2270	7,537590E+22	7,537575E+22	5,804519E+22	5,804386E+22	1,507517E+23	1,160891E+23	2,668407E+23
2271	7,537786E+22	7,537830E+22	5,804454E+22	5,804593E+22	1,507562E+23	1,160905E+23	2,668466E+23
2272	7,537764E+22	7,537553E+22	5,804446E+22	5,804573E+22	1,507532E+23	1,160902E+23	2,668434E+23
2273	7,537540E+22	7,537770E+22	5,804673E+22	5,804597E+22	1,507531E+23	1,160927E+23	2,668458E+23
2274	7,537814E+22	7,537827E+22	5,804596E+22	5,804652E+22	1,507564E+23	1,160925E+23	2,668489E+23
2275	7,537698E+22	7,537528E+22	5,804685E+22	5,804586E+22	1,507523E+23	1,160927E+23	2,668450E+23
2276	7,537607E+22	7,537817E+22	5,804786E+22	5,804687E+22	1,507542E+23	1,160947E+23	2,668490E+23
2277	7,537786E+22	7,537687E+22	5,804647E+22	5,804673E+22	1,507547E+23	1,160932E+23	2,668479E+23
2278	7,537516E+22	7,537593E+22	5,804691E+22	5,804615E+22	1,507511E+23	1,160931E+23	2,668441E+23
2279	7,537649E+22	7,537837E+22	5,804600E+22	5,804692E+22	1,507549E+23	1,160929E+23	2,668478E+23
2280	7,537770E+22	7,537538E+22	5,804489E+22	5,804546E+22	1,507531E+23	1,160904E+23	2,668434E+23
2281	7,537553E+22	7,537632E+22	5,804587E+22	5,804447E+22	1,507518E+23	1,160903E+23	2,668422E+23
2282	7,537827E+22	7,537811E+22	5,804410E+22	5,804468E+22	1,507564E+23	1,160888E+23	2,668452E+23
2283	7,537728E+22	7,537551E+22	5,804375E+22	5,804377E+22	1,507528E+23	1,160875E+23	2,668403E+23
2284	7,537520E+22	7,537815E+22	5,804487E+22	5,804427E+22	1,507533E+23	1,160891E+23	2,668425E+23
2285	7,537765E+22	7,537764E+22	5,804399E+22	5,804426E+22	1,507553E+23	1,160883E+23	2,668435E+23
2286	7,537569E+22	7,537524E+22	5,804499E+22	5,804388E+22	1,507509E+23	1,160889E+23	2,668398E+23
2287	7,537639E+22	7,537752E+22	5,804535E+22	5,804525E+22	1,507539E+23	1,160906E+23	2,668445E+23
2288	7,537817E+22	7,537563E+22	5,804470E+22	5,804545E+22	1,507538E+23	1,160902E+23	2,668439E+23
2289	7,537512E+22	7,537591E+22	5,804630E+22	5,804574E+22	1,507510E+23	1,160920E+23	2,668431E+23
2290	7,537715E+22	7,537859E+22	5,804586E+22	5,804714E+22	1,507557E+23	1,160930E+23	2,668487E+23
2291	7,537723E+22	7,537567E+22	5,804638E+22	5,804689E+22	1,507529E+23	1,160933E+23	2,668462E+23
2292	7,537502E+22	7,537702E+22	5,804859E+22	5,804734E+22	1,507520E+23	1,160959E+23	2,668480E+23

1	14	15	16	17	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							
2293	7,537811E+22	7,537754E+22	5,804805E+22	5,804783E+22	1,507556E+23	1,160959E+23	2,668515E+23
2294	7,537622E+22	7,537490E+22	5,804854E+22	5,804760E+22	1,507511E+23	1,160961E+23	2,668473E+23
2295	7,537538E+22	7,537763E+22	5,804867E+22	5,804864E+22	1,507530E+23	1,160973E+23	2,668503E+23
2296	7,537754E+22	7,537666E+22	5,804721E+22	5,804847E+22	1,507542E+23	1,160957E+23	2,668499E+23
2297	7,537468E+22	7,537527E+22	5,804802E+22	5,804743E+22	1,507499E+23	1,160955E+23	2,668454E+23
2298	7,537672E+22	7,537782E+22	5,804709E+22	5,804734E+22	1,507545E+23	1,160944E+23	2,668490E+23
2299	7,537802E+22	7,537528E+22	5,804608E+22	5,804613E+22	1,507533E+23	1,160922E+23	2,668455E+23
2300	7,537513E+22	7,537616E+22	5,804693E+22	5,804571E+22	1,507513E+23	1,160926E+23	2,668439E+23
2301	7,537773E+22	7,537823E+22	5,804555E+22	5,804589E+22	1,507560E+23	1,160914E+23	2,668474E+23
2302	7,537611E+22	7,537549E+22	5,804546E+22	5,804526E+22	1,507516E+23	1,160907E+23	2,668423E+23
2303	7,537466E+22	7,537729E+22	5,804633E+22	5,804565E+22	1,507519E+23	1,160920E+23	2,668439E+23
2304	7,537776E+22	7,537689E+22	5,804535E+22	5,804580E+22	1,507546E+23	1,160912E+23	2,668458E+23
2305	7,537531E+22	7,537441E+22	5,804642E+22	5,804563E+22	1,507497E+23	1,160921E+23	2,668418E+23
2306	7,537620E+22	7,537732E+22	5,804645E+22	5,804666E+22	1,507535E+23	1,160931E+23	2,668466E+23
2307	7,537779E+22	7,537600E+22	5,804583E+22	5,804717E+22	1,507538E+23	1,160930E+23	2,668468E+23
2308	7,537449E+22	7,537576E+22	5,804768E+22	5,804749E+22	1,507502E+23	1,160952E+23	2,668454E+23
2309	7,537712E+22	7,537809E+22	5,804794E+22	5,804823E+22	1,507552E+23	1,160962E+23	2,668514E+23
2310	7,537687E+22	7,537519E+22	5,804855E+22	5,804804E+22	1,507521E+23	1,160966E+23	2,668487E+23
2311	7,537487E+22	7,537618E+22	5,805005E+22	5,804869E+22	1,507510E+23	1,160987E+23	2,668498E+23
2312	7,537773E+22	7,537736E+22	5,804920E+22	5,804965E+22	1,507551E+23	1,160989E+23	2,668539E+23
2313	7,537504E+22	7,537476E+22	5,804973E+22	5,804957E+22	1,507498E+23	1,160993E+23	2,668491E+23
2314	7,537472E+22	7,537732E+22	5,804978E+22	5,804982E+22	1,507520E+23	1,160996E+23	2,668516E+23
2315	7,537748E+22	7,537638E+22	5,804855E+22	5,804954E+22	1,507539E+23	1,160981E+23	2,668519E+23
2316	7,537480E+22	7,537452E+22	5,804923E+22	5,804850E+22	1,507493E+23	1,160977E+23	2,668471E+23
2317	7,537710E+22	7,537726E+22	5,804860E+22	5,804818E+22	1,507544E+23	1,160968E+23	2,668511E+23
2318	7,537747E+22	7,537550E+22	5,804746E+22	5,804733E+22	1,507530E+23	1,160948E+23	2,668478E+23
2319	7,537448E+22	7,537599E+22	5,804774E+22	5,804712E+22	1,507505E+23	1,160949E+23	2,668453E+23
2320	7,537706E+22	7,537813E+22	5,804669E+22	5,804742E+22	1,507552E+23	1,160941E+23	2,668493E+23
2321	7,537533E+22	7,537476E+22	5,804699E+22	5,804669E+22	1,507501E+23	1,160937E+23	2,668438E+23
2322	7,537453E+22	7,537629E+22	5,804767E+22	5,804658E+22	1,507508E+23	1,160943E+23	2,668451E+23
2323	7,537781E+22	7,537650E+22	5,804663E+22	5,804723E+22	1,507543E+23	1,160939E+23	2,668482E+23
2324	7,537492E+22	7,537411E+22	5,804744E+22	5,804742E+22	1,507490E+23	1,160949E+23	2,668439E+23
2325	7,537591E+22	7,537731E+22	5,804794E+22	5,804814E+22	1,507532E+23	1,160961E+23	2,668493E+23
2326	7,537702E+22	7,537619E+22	5,804772E+22	5,804853E+22	1,507532E+23	1,160962E+23	2,668495E+23
2327	7,537428E+22	7,537508E+22	5,804940E+22	5,804876E+22	1,507494E+23	1,160982E+23	2,668475E+23
2328	7,537709E+22	7,537761E+22	5,804976E+22	5,804969E+22	1,507547E+23	1,160994E+23	2,668542E+23
2329	7,537623E+22	7,537457E+22	5,805038E+22	5,804989E+22	1,507508E+23	1,161003E+23	2,668511E+23
2330	7,537423E+22	7,537584E+22	5,805134E+22	5,805033E+22	1,507501E+23	1,161017E+23	2,668517E+23
2331	7,537709E+22	7,537746E+22	5,805027E+22	5,805155E+22	1,507545E+23	1,161018E+23	2,668564E+23
2332	7,537450E+22	7,537415E+22	5,805085E+22	5,805125E+22	1,507486E+23	1,161021E+23	2,668508E+23
2333	7,537513E+22	7,537647E+22	5,805133E+22	5,805066E+22	1,507516E+23	1,161020E+23	2,668536E+23
2334	7,537759E+22	7,537593E+22	5,805004E+22	5,805024E+22	1,507535E+23	1,161003E+23	2,668538E+23
2335	7,537497E+22	7,537406E+22	5,805012E+22	5,804943E+22	1,507490E+23	1,160996E+23	2,668486E+23
2336	7,537672E+22	7,537758E+22	5,804942E+22	5,804939E+22	1,507543E+23	1,160988E+23	2,668531E+23
2337	7,537606E+22	7,537564E+22	5,804868E+22	5,804885E+22	1,507517E+23	1,160975E+23	2,668492E+23
2338	7,537349E+22	7,537570E+22	5,804909E+22	5,804817E+22	1,507492E+23	1,160973E+23	2,668465E+23
2339	7,537660E+22	7,537765E+22	5,804818E+22	5,804873E+22	1,507542E+23	1,160969E+23	2,668512E+23
2340	7,537511E+22	7,537368E+22	5,804844E+22	5,804828E+22	1,507488E+23	1,160967E+23	2,668455E+23
2341	7,537487E+22	7,537539E+22	5,804919E+22	5,804798E+22	1,507503E+23	1,160972E+23	2,668474E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,537740E+22	7,537648E+22	5,804799E+22	5,804882E+22	1,507539E+23	1,160968E+23	2,668507E+23
2343	7,537467E+22	7,537395E+22	5,804835E+22	5,804904E+22	1,507486E+23	1,160974E+23	2,668460E+23
2344	7,537571E+22	7,537726E+22	5,804935E+22	5,804953E+22	1,507530E+23	1,160989E+23	2,668519E+23
2345	7,537651E+22	7,537574E+22	5,804971E+22	5,804986E+22	1,507522E+23	1,160996E+23	2,668518E+23
2346	7,537410E+22	7,537447E+22	5,805120E+22	5,804982E+22	1,507486E+23	1,161010E+23	2,668496E+23
2347	7,537666E+22	7,537751E+22	5,805136E+22	5,805142E+22	1,507542E+23	1,161028E+23	2,668569E+23
2348	7,537535E+22	7,537426E+22	5,805174E+22	5,805204E+22	1,507496E+23	1,161038E+23	2,668534E+23
2349	7,537375E+22	7,537537E+22	5,805287E+22	5,805204E+22	1,507491E+23	1,161049E+23	2,668540E+23
2350	7,537652E+22	7,537721E+22	5,805195E+22	5,805288E+22	1,507537E+23	1,161048E+23	2,668586E+23
2351	7,537479E+22	7,537329E+22	5,805192E+22	5,805228E+22	1,507481E+23	1,161042E+23	2,668523E+23
2352	7,537549E+22	7,537604E+22	5,805247E+22	5,805162E+22	1,507515E+23	1,161041E+23	2,668556E+23
2353	7,537713E+22	7,537581E+22	5,805128E+22	5,805143E+22	1,507529E+23	1,161027E+23	2,668557E+23
2354	7,537425E+22	7,537413E+22	5,805102E+22	5,805049E+22	1,507484E+23	1,161015E+23	2,668499E+23
2355	7,537573E+22	7,537791E+22	5,805046E+22	5,805086E+22	1,507536E+23	1,161013E+23	2,668550E+23
2356	7,537522E+22	7,537495E+22	5,805005E+22	5,805031E+22	1,507502E+23	1,161004E+23	2,668505E+23
2357	7,537363E+22	7,537447E+22	5,805079E+22	5,804913E+22	1,507481E+23	1,160999E+23	2,668480E+23
2358	7,537655E+22	7,537689E+22	5,804976E+22	5,804976E+22	1,507534E+23	1,160995E+23	2,668530E+23
2359	7,537531E+22	7,537295E+22	5,804924E+22	5,804967E+22	1,507483E+23	1,160989E+23	2,668472E+23
2360	7,537472E+22	7,537555E+22	5,805003E+22	5,804951E+22	1,507503E+23	1,160995E+23	2,668498E+23
2361	7,537649E+22	7,537667E+22	5,804936E+22	5,805043E+22	1,507532E+23	1,160998E+23	2,668530E+23
2362	7,537411E+22	7,537386E+22	5,804999E+22	5,805011E+22	1,507480E+23	1,161001E+23	2,668481E+23
2363	7,537538E+22	7,537719E+22	5,805123E+22	5,805090E+22	1,507526E+23	1,161021E+23	2,668547E+23
2364	7,537606E+22	7,537500E+22	5,805173E+22	5,805167E+22	1,507511E+23	1,161034E+23	2,668545E+23
2365	7,537400E+22	7,537376E+22	5,805315E+22	5,805161E+22	1,507478E+23	1,161048E+23	2,668525E+23
2366	7,537581E+22	7,537738E+22	5,805294E+22	5,805336E+22	1,507532E+23	1,161063E+23	2,668595E+23
2367	7,537494E+22	7,537372E+22	5,805269E+22	5,805397E+22	1,507487E+23	1,161067E+23	2,668553E+23
2368	7,537384E+22	7,537486E+22	5,805397E+22	5,805335E+22	1,507487E+23	1,161073E+23	2,668560E+23
2369	7,537639E+22	7,537646E+22	5,805339E+22	5,805389E+22	1,507528E+23	1,161073E+23	2,668601E+23
2370	7,537493E+22	7,537292E+22	5,805305E+22	5,805283E+22	1,507478E+23	1,161059E+23	2,668537E+23
2371	7,537520E+22	7,537638E+22	5,805343E+22	5,805269E+22	1,507516E+23	1,161061E+23	2,668577E+23
2372	7,537610E+22	7,537591E+22	5,805246E+22	5,805290E+22	1,507520E+23	1,161054E+23	2,668574E+23
2373	7,537355E+22	7,537386E+22	5,805256E+22	5,805169E+22	1,507474E+23	1,161042E+23	2,668517E+23
2374	7,537480E+22	7,537749E+22	5,805224E+22	5,805194E+22	1,507523E+23	1,161042E+23	2,668565E+23
2375	7,537522E+22	7,537378E+22	5,805128E+22	5,805160E+22	1,507490E+23	1,161029E+23	2,668519E+23
2376	7,537397E+22	7,537362E+22	5,805189E+22	5,805045E+22	1,507476E+23	1,161023E+23	2,668499E+23
2377	7,537624E+22	7,537645E+22	5,805093E+22	5,805137E+22	1,507527E+23	1,161023E+23	2,668550E+23
2378	7,537492E+22	7,537313E+22	5,804998E+22	5,805098E+22	1,507481E+23	1,161010E+23	2,668490E+23
2379	7,537418E+22	7,537608E+22	5,805107E+22	5,805104E+22	1,507503E+23	1,161021E+23	2,668524E+23
2380	7,537597E+22	7,537634E+22	5,805113E+22	5,805185E+22	1,507523E+23	1,161030E+23	2,668553E+23
2381	7,537426E+22	7,537303E+22	5,805217E+22	5,805122E+22	1,507473E+23	1,161034E+23	2,668507E+23
2382	7,537493E+22	7,537681E+22	5,805338E+22	5,805225E+22	1,507517E+23	1,161056E+23	2,668574E+23
2383	7,537576E+22	7,537437E+22	5,805299E+22	5,805358E+22	1,507501E+23	1,161066E+23	2,668567E+23
2384	7,537345E+22	7,537352E+22	5,805432E+22	5,805355E+22	1,507470E+23	1,161079E+23	2,668548E+23
2385	7,537489E+22	7,537703E+22	5,805441E+22	5,805514E+22	1,507519E+23	1,161096E+23	2,668615E+23
2386	7,537467E+22	7,537321E+22	5,805394E+22	5,805499E+22	1,507479E+23	1,161089E+23	2,668568E+23
2387	7,537398E+22	7,537469E+22	5,805522E+22	5,805447E+22	1,507487E+23	1,161097E+23	2,668584E+23
2388	7,537631E+22	7,537594E+22	5,805487E+22	5,805514E+22	1,507523E+23	1,161100E+23	2,668623E+23
2389	7,537486E+22	7,537269E+22	5,805454E+22	5,805396E+22	1,507475E+23	1,161085E+23	2,668560E+23
2390	7,537415E+22	7,537673E+22	5,805485E+22	5,805393E+22	1,507509E+23	1,161088E+23	2,668597E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2391	7,537539E+22	7,537543E+22	5,805347E+22	5,805439E+22	1,507508E+23	1,161079E+23	2,668587E+23
2392	7,537335E+22	7,537306E+22	5,805386E+22	5,805285E+22	1,507464E+23	1,161067E+23	2,668531E+23
2393	7,537453E+22	7,537641E+22	5,805367E+22	5,805313E+22	1,507509E+23	1,161068E+23	2,668577E+23
2394	7,537526E+22	7,537317E+22	5,805213E+22	5,805258E+22	1,507484E+23	1,161047E+23	2,668531E+23
2395	7,537384E+22	7,537394E+22	5,805246E+22	5,805193E+22	1,507478E+23	1,161044E+23	2,668522E+23
2396	7,537552E+22	7,537654E+22	5,805202E+22	5,805301E+22	1,507521E+23	1,161050E+23	2,668571E+23
2397	7,537462E+22	7,537318E+22	5,805165E+22	5,805214E+22	1,507478E+23	1,161038E+23	2,668516E+23
2398	7,537356E+22	7,537600E+22	5,805317E+22	5,805199E+22	1,507496E+23	1,161052E+23	2,668547E+23
2399	7,537585E+22	7,537548E+22	5,805290E+22	5,805331E+22	1,507513E+23	1,161062E+23	2,668575E+23
2400	7,537424E+22	7,537233E+22	5,805391E+22	5,805287E+22	1,507466E+23	1,161068E+23	2,668534E+23
2401	7,537407E+22	7,537617E+22	5,805499E+22	5,805433E+22	1,507502E+23	1,161093E+23	2,668596E+23
2402	7,537499E+22	7,537417E+22	5,805401E+22	5,805540E+22	1,507492E+23	1,161094E+23	2,668586E+23
2403	7,537309E+22	7,537352E+22	5,805525E+22	5,805532E+22	1,507466E+23	1,161106E+23	2,668572E+23
2404	7,537475E+22	7,537622E+22	5,805601E+22	5,805650E+22	1,507510E+23	1,161125E+23	2,668635E+23
2405	7,537521E+22	7,537260E+22	5,805563E+22	5,805573E+22	1,507478E+23	1,161114E+23	2,668592E+23
2406	7,537377E+22	7,537473E+22	5,805686E+22	5,805527E+22	1,507485E+23	1,161121E+23	2,668606E+23
2407	7,537589E+22	7,537583E+22	5,805593E+22	5,805657E+22	1,507517E+23	1,161125E+23	2,668642E+23
2408	7,537409E+22	7,537278E+22	5,805575E+22	5,805542E+22	1,507469E+23	1,161112E+23	2,668580E+23
2409	7,537289E+22	7,537632E+22	5,805642E+22	5,805543E+22	1,507492E+23	1,161118E+23	2,668611E+23
2410	7,537482E+22	7,537473E+22	5,805466E+22	5,805543E+22	1,507496E+23	1,161101E+23	2,668596E+23
2411	7,537338E+22	7,537257E+22	5,805479E+22	5,805419E+22	1,507459E+23	1,161090E+23	2,668549E+23
2412	7,537452E+22	7,537558E+22	5,805487E+22	5,805462E+22	1,507501E+23	1,161095E+23	2,668596E+23
2413	7,537540E+22	7,537294E+22	5,805316E+22	5,805383E+22	1,507483E+23	1,161070E+23	2,668553E+23
2414	7,537320E+22	7,537446E+22	5,805365E+22	5,805311E+22	1,507477E+23	1,161068E+23	2,668544E+23
2415	7,537523E+22	7,537625E+22	5,805314E+22	5,805428E+22	1,507515E+23	1,161074E+23	2,668589E+23
2416	7,537458E+22	7,537255E+22	5,805338E+22	5,805314E+22	1,507471E+23	1,161065E+23	2,668536E+23
2417	7,537309E+22	7,537519E+22	5,805518E+22	5,805326E+22	1,507483E+23	1,161084E+23	2,668567E+23
2418	7,537536E+22	7,537494E+22	5,805426E+22	5,805470E+22	1,507503E+23	1,161090E+23	2,668593E+23
2419	7,537362E+22	7,537246E+22	5,805493E+22	5,805492E+22	1,507461E+23	1,161099E+23	2,668559E+23
2420	7,537320E+22	7,537575E+22	5,805644E+22	5,805643E+22	1,507490E+23	1,161129E+23	2,668618E+23
2421	7,537477E+22	7,537375E+22	5,805567E+22	5,805684E+22	1,507485E+23	1,161125E+23	2,668610E+23
2422	7,537289E+22	7,537336E+22	5,805709E+22	5,805636E+22	1,507462E+23	1,161134E+23	2,668597E+23
2423	7,537504E+22	7,537548E+22	5,805746E+22	5,805782E+22	1,507505E+23	1,161153E+23	2,668658E+23
2424	7,537534E+22	7,537233E+22	5,805720E+22	5,805702E+22	1,507477E+23	1,161142E+23	2,668619E+23
2425	7,537286E+22	7,537469E+22	5,805836E+22	5,805692E+22	1,507476E+23	1,161153E+23	2,668628E+23
2426	7,537478E+22	7,537591E+22	5,805689E+22	5,805804E+22	1,507507E+23	1,161149E+23	2,668656E+23
2427	7,537346E+22	7,537270E+22	5,805672E+22	5,805698E+22	1,507462E+23	1,161137E+23	2,668599E+23
2428	7,537255E+22	7,537505E+22	5,805797E+22	5,805675E+22	1,507476E+23	1,161147E+23	2,668623E+23
2429	7,537522E+22	7,537384E+22	5,805601E+22	5,805631E+22	1,507491E+23	1,161123E+23	2,668614E+23
2430	7,537337E+22	7,537246E+22	5,805582E+22	5,805505E+22	1,507458E+23	1,161109E+23	2,668567E+23
2431	7,537435E+22	7,537533E+22	5,805552E+22	5,805600E+22	1,507497E+23	1,161115E+23	2,668612E+23
2432	7,537503E+22	7,537314E+22	5,805425E+22	5,805494E+22	1,507482E+23	1,161092E+23	2,668574E+23
2433	7,537230E+22	7,537420E+22	5,805535E+22	5,805424E+22	1,507465E+23	1,161096E+23	2,668561E+23
2434	7,537464E+22	7,537579E+22	5,805471E+22	5,805522E+22	1,507504E+23	1,161099E+23	2,668604E+23
2435	7,537438E+22	7,537226E+22	5,805481E+22	5,805473E+22	1,507466E+23	1,161095E+23	2,668562E+23
2436	7,537254E+22	7,537427E+22	5,805698E+22	5,805528E+22	1,507468E+23	1,161123E+23	2,668591E+23
2437	7,537491E+22	7,537467E+22	5,805570E+22	5,805660E+22	1,507496E+23	1,161123E+23	2,668619E+23
2438	7,537286E+22	7,537261E+22	5,805631E+22	5,805665E+22	1,507455E+23	1,161130E+23	2,668584E+23
2439	7,537314E+22	7,537496E+22	5,805774E+22	5,805813E+22	1,507481E+23	1,161159E+23	2,668640E+23

1	14	15	16	17	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							
2440	7,537519E+22	7,537305E+22	5,805735E+22	5,805793E+22	1,507482E+23	1,161153E+23	2,668635E+23
2441	7,537282E+22	7,537285E+22	5,805889E+22	5,805755E+22	1,507457E+23	1,161164E+23	2,668621E+23
2442	7,537464E+22	7,537543E+22	5,805865E+22	5,805899E+22	1,507501E+23	1,161176E+23	2,668677E+23
2443	7,537460E+22	7,537288E+22	5,805820E+22	5,805876E+22	1,507475E+23	1,161170E+23	2,668644E+23
2444	7,537173E+22	7,537437E+22	5,805997E+22	5,805869E+22	1,507461E+23	1,161187E+23	2,668648E+23
2445	7,537422E+22	7,537533E+22	5,805848E+22	5,805920E+22	1,507495E+23	1,161177E+23	2,668672E+23
2446	7,537312E+22	7,537217E+22	5,805829E+22	5,805794E+22	1,507453E+23	1,161162E+23	2,668615E+23
2447	7,537292E+22	7,537384E+22	5,805895E+22	5,805804E+22	1,507468E+23	1,161170E+23	2,668637E+23
2448	7,537549E+22	7,537319E+22	5,805701E+22	5,805745E+22	1,507487E+23	1,161145E+23	2,668632E+23
2449	7,537278E+22	7,537248E+22	5,805680E+22	5,805640E+22	1,507453E+23	1,161132E+23	2,668585E+23
2450	7,537362E+22	7,537550E+22	5,805618E+22	5,805705E+22	1,507491E+23	1,161132E+23	2,668624E+23
2451	7,537462E+22	7,537329E+22	5,805533E+22	5,805611E+22	1,507479E+23	1,161114E+23	2,668594E+23
2452	7,537192E+22	7,537328E+22	5,805728E+22	5,805546E+22	1,507452E+23	1,161127E+23	2,668579E+23
2453	7,537444E+22	7,537516E+22	5,805647E+22	5,805638E+22	1,507496E+23	1,161128E+23	2,668624E+23
2454	7,537376E+22	7,537225E+22	5,805640E+22	5,805628E+22	1,507460E+23	1,161127E+23	2,668587E+23
2455	7,537201E+22	7,537368E+22	5,805811E+22	5,805746E+22	1,507457E+23	1,161156E+23	2,668613E+23
2456	7,537453E+22	7,537429E+22	5,805721E+22	5,805836E+22	1,507488E+23	1,161156E+23	2,668644E+23
2457	7,537241E+22	7,537212E+22	5,805809E+22	5,805816E+22	1,507445E+23	1,161162E+23	2,668608E+23
2458	7,537310E+22	7,537445E+22	5,805915E+22	5,805927E+22	1,507475E+23	1,161184E+23	2,668660E+23
2459	7,537540E+22	7,537308E+22	5,805869E+22	5,805940E+22	1,507485E+23	1,161181E+23	2,668666E+23
2460	7,537241E+22	7,537236E+22	5,806070E+22	5,805930E+22	1,507448E+23	1,161200E+23	2,668648E+23
2461	7,537390E+22	7,537560E+22	5,806015E+22	5,806053E+22	1,507495E+23	1,161207E+23	2,668702E+23
2462	7,537366E+22	7,537309E+22	5,805966E+22	5,806014E+22	1,507468E+23	1,161198E+23	2,668666E+23
2463	7,537142E+22	7,537313E+22	5,806130E+22	5,806016E+22	1,507445E+23	1,161215E+23	2,668660E+23
2464	7,537447E+22	7,537419E+22	5,805995E+22	5,806012E+22	1,507487E+23	1,161201E+23	2,668687E+23
2465	7,537306E+22	7,537139E+22	5,805948E+22	5,805899E+22	1,507445E+23	1,161185E+23	2,668629E+23
2466	7,537267E+22	7,537365E+22	5,805943E+22	5,805909E+22	1,507463E+23	1,161185E+23	2,668648E+23
2467	7,537506E+22	7,537385E+22	5,805746E+22	5,805879E+22	1,507489E+23	1,161162E+23	2,668652E+23
2468	7,537195E+22	7,537234E+22	5,805823E+22	5,805770E+22	1,507443E+23	1,161159E+23	2,668602E+23
2469	7,537305E+22	7,537535E+22	5,805786E+22	5,805783E+22	1,507484E+23	1,161157E+23	2,668641E+23
2470	7,537417E+22	7,537312E+22	5,805722E+22	5,805708E+22	1,507473E+23	1,161143E+23	2,668616E+23
2471	7,537183E+22	7,537211E+22	5,805886E+22	5,805722E+22	1,507439E+23	1,161161E+23	2,668600E+23
2472	7,537423E+22	7,537445E+22	5,805801E+22	5,805818E+22	1,507487E+23	1,161162E+23	2,668649E+23
2473	7,537294E+22	7,537201E+22	5,805773E+22	5,805835E+22	1,507450E+23	1,161161E+23	2,668610E+23
2474	7,537155E+22	7,537332E+22	5,805898E+22	5,805911E+22	1,507449E+23	1,161181E+23	2,668630E+23
2475	7,537468E+22	7,537402E+22	5,805840E+22	5,805980E+22	1,507487E+23	1,161182E+23	2,668669E+23
2476	7,537262E+22	7,537133E+22	5,806003E+22	5,805941E+22	1,507439E+23	1,161194E+23	2,668634E+23
2477	7,537318E+22	7,537428E+22	5,806079E+22	5,806022E+22	1,507475E+23	1,161210E+23	2,668685E+23
2478	7,537474E+22	7,537359E+22	5,806036E+22	5,806071E+22	1,507483E+23	1,161211E+23	2,668694E+23
2479	7,537161E+22	7,537208E+22	5,806206E+22	5,806120E+22	1,507437E+23	1,161233E+23	2,668670E+23
2480	7,537308E+22	7,537505E+22	5,806185E+22	5,806200E+22	1,507481E+23	1,161238E+23	2,668720E+23
2481	7,537288E+22	7,537234E+22	5,806144E+22	5,806155E+22	1,507452E+23	1,161230E+23	2,668682E+23
2482	7,537131E+22	7,537214E+22	5,806226E+22	5,806131E+22	1,507435E+23	1,161236E+23	2,668670E+23
2483	7,537472E+22	7,537381E+22	5,806071E+22	5,806149E+22	1,507485E+23	1,161222E+23	2,668707E+23
2484	7,537283E+22	7,537103E+22	5,806055E+22	5,806043E+22	1,507439E+23	1,161210E+23	2,668648E+23
2485	7,537213E+22	7,537406E+22	5,806022E+22	5,806012E+22	1,507462E+23	1,161203E+23	2,668665E+23
2486	7,537436E+22	7,537437E+22	5,805874E+22	5,805966E+22	1,507487E+23	1,161184E+23	2,668671E+23
2487	7,537178E+22	7,537141E+22	5,805974E+22	5,805886E+22	1,507432E+23	1,161186E+23	2,668618E+23
2488	7,537304E+22	7,537439E+22	5,805972E+22	5,805875E+22	1,507474E+23	1,161185E+23	2,668659E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,537370E+22	7,537250E+22	5,805887E+22	5,805854E+22	1,507462E+23	1,161174E+23	2,668636E+23
2490	7,537125E+22	7,537166E+22	5,805970E+22	5,805894E+22	1,507429E+23	1,161186E+23	2,668615E+23
2491	7,537378E+22	7,537458E+22	5,805884E+22	5,806011E+22	1,507484E+23	1,161190E+23	2,668673E+23
2492	7,537245E+22	7,537143E+22	5,805932E+22	5,806003E+22	1,507439E+23	1,161194E+23	2,668632E+23
2493	7,537146E+22	7,537309E+22	5,806058E+22	5,806012E+22	1,507445E+23	1,161207E+23	2,668653E+23
2494	7,537473E+22	7,537408E+22	5,806020E+22	5,806078E+22	1,507488E+23	1,161210E+23	2,668698E+23
2495	7,537264E+22	7,537055E+22	5,806174E+22	5,806108E+22	1,507432E+23	1,161228E+23	2,668660E+23
2496	7,537270E+22	7,537407E+22	5,806261E+22	5,806181E+22	1,507468E+23	1,161244E+23	2,668712E+23
2497	7,537355E+22	7,537362E+22	5,806198E+22	5,806261E+22	1,507472E+23	1,161246E+23	2,668718E+23
2498	7,537076E+22	7,537148E+22	5,806320E+22	5,806284E+22	1,507422E+23	1,161260E+23	2,668683E+23
2499	7,537299E+22	7,537437E+22	5,806302E+22	5,806339E+22	1,507474E+23	1,161264E+23	2,668738E+23
2500	7,537293E+22	7,537120E+22	5,806293E+22	5,806283E+22	1,507441E+23	1,161258E+23	2,668699E+23
2501	7,537139E+22	7,537192E+22	5,806315E+22	5,806221E+22	1,507433E+23	1,161254E+23	2,668687E+23
2502	7,537436E+22	7,537435E+22	5,806164E+22	5,806251E+22	1,507487E+23	1,161241E+23	2,668729E+23
2503	7,537234E+22	7,537092E+22	5,806156E+22	5,806181E+22	1,507433E+23	1,161234E+23	2,668666E+23
2504	7,537166E+22	7,537380E+22	5,806182E+22	5,806093E+22	1,507455E+23	1,161228E+23	2,668682E+23
2505	7,537368E+22	7,537397E+22	5,806059E+22	5,806066E+22	1,507477E+23	1,161212E+23	2,668689E+23
2506	7,537155E+22	7,537055E+22	5,806097E+22	5,806009E+22	1,507421E+23	1,161211E+23	2,668631E+23
2507	7,537291E+22	7,537385E+22	5,806083E+22	5,806043E+22	1,507468E+23	1,161213E+23	2,668680E+23
2508	7,537314E+22	7,537197E+22	5,806022E+22	5,806055E+22	1,507451E+23	1,161208E+23	2,668659E+23
2509	7,537073E+22	7,537176E+22	5,806050E+22	5,806044E+22	1,507425E+23	1,161209E+23	2,668634E+23
2510	7,537344E+22	7,537462E+22	5,806021E+22	5,806132E+22	1,507481E+23	1,161215E+23	2,668696E+23
2511	7,537270E+22	7,537055E+22	5,806090E+22	5,806129E+22	1,507432E+23	1,161222E+23	2,668654E+23
2512	7,537175E+22	7,537242E+22	5,806245E+22	5,806102E+22	1,507442E+23	1,161235E+23	2,668676E+23
2513	7,537418E+22	7,537404E+22	5,806208E+22	5,806223E+22	1,507482E+23	1,161243E+23	2,668725E+23
2514	7,537179E+22	7,537054E+22	5,806292E+22	5,806288E+22	1,507423E+23	1,161258E+23	2,668681E+23
2515	7,537175E+22	7,537419E+22	5,806391E+22	5,806375E+22	1,507459E+23	1,161277E+23	2,668736E+23
2516	7,537264E+22	7,537289E+22	5,806392E+22	5,806442E+22	1,507455E+23	1,161283E+23	2,668739E+23
2517	7,537046E+22	7,537086E+22	5,806463E+22	5,806400E+22	1,507413E+23	1,161286E+23	2,668699E+23
2518	7,537311E+22	7,537394E+22	5,806449E+22	5,806451E+22	1,507470E+23	1,161290E+23	2,668760E+23
2519	7,537320E+22	7,537036E+22	5,806405E+22	5,806435E+22	1,507436E+23	1,161284E+23	2,668720E+23
2520	7,537132E+22	7,537185E+22	5,806424E+22	5,806337E+22	1,507432E+23	1,161276E+23	2,668708E+23
2521	7,537358E+22	7,537469E+22	5,806283E+22	5,806373E+22	1,507483E+23	1,161266E+23	2,668748E+23
2522	7,537182E+22	7,537055E+22	5,806255E+22	5,806283E+22	1,507424E+23	1,161254E+23	2,668677E+23
2523	7,537156E+22	7,537334E+22	5,806313E+22	5,806186E+22	1,507449E+23	1,161250E+23	2,668699E+23
2524	7,537338E+22	7,537300E+22	5,806223E+22	5,806190E+22	1,507464E+23	1,161241E+23	2,668705E+23
2525	7,537107E+22	7,537034E+22	5,806196E+22	5,806134E+22	1,507414E+23	1,161233E+23	2,668647E+23
2526	7,537229E+22	7,537409E+22	5,806184E+22	5,806191E+22	1,507464E+23	1,161238E+23	2,668701E+23
2527	7,537259E+22	7,537140E+22	5,806132E+22	5,806235E+22	1,507440E+23	1,161237E+23	2,668677E+23
2528	7,537058E+22	7,537128E+22	5,806210E+22	5,806153E+22	1,507419E+23	1,161236E+23	2,668655E+23
2529	7,537321E+22	7,537426E+22	5,806206E+22	5,806245E+22	1,507475E+23	1,161245E+23	2,668720E+23
2530	7,537269E+22	7,536999E+22	5,806231E+22	5,806263E+22	1,507427E+23	1,161249E+23	2,668676E+23
2531	7,537157E+22	7,537235E+22	5,806391E+22	5,806267E+22	1,507439E+23	1,161266E+23	2,668705E+23
2532	7,537321E+22	7,537386E+22	5,806384E+22	5,806432E+22	1,507471E+23	1,161282E+23	2,668752E+23
2533	7,537078E+22	7,537065E+22	5,806424E+22	5,806459E+22	1,507414E+23	1,161288E+23	2,668703E+23
2534	7,537124E+22	7,537379E+22	5,806560E+22	5,806519E+22	1,507450E+23	1,161308E+23	2,668758E+23
2535	7,537279E+22	7,537151E+22	5,806554E+22	5,806593E+22	1,507443E+23	1,161315E+23	2,668758E+23
2536	7,537096E+22	7,536998E+22	5,806606E+22	5,806500E+22	1,507409E+23	1,161311E+23	2,668720E+23
2537	7,537288E+22	7,537385E+22	5,806575E+22	5,806577E+22	1,507467E+23	1,161315E+23	2,668783E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2538	7,537274E+22	7,537055E+22	5,806467E+22	5,806567E+22	1,507433E+23	1,161303E+23	2,668736E+23
2539	7,537078E+22	7,537213E+22	5,806520E+22	5,806453E+22	1,507429E+23	1,161297E+23	2,668726E+23
2540	7,537278E+22	7,537431E+22	5,806459E+22	5,806487E+22	1,507471E+23	1,161295E+23	2,668766E+23
2541	7,537134E+22	7,537027E+22	5,806385E+22	5,806363E+22	1,507416E+23	1,161275E+23	2,668691E+23
2542	7,537122E+22	7,537285E+22	5,806460E+22	5,806303E+22	1,507441E+23	1,161276E+23	2,668717E+23
2543	7,537302E+22	7,537209E+22	5,806347E+22	5,806373E+22	1,507451E+23	1,161272E+23	2,668723E+23
2544	7,537072E+22	7,536998E+22	5,806296E+22	5,806287E+22	1,507407E+23	1,161258E+23	2,668665E+23
2545	7,537164E+22	7,537395E+22	5,806307E+22	5,806343E+22	1,507456E+23	1,161265E+23	2,668721E+23
2546	7,537255E+22	7,537079E+22	5,806231E+22	5,806353E+22	1,507433E+23	1,161258E+23	2,668692E+23
2547	7,537094E+22	7,537083E+22	5,806347E+22	5,806249E+22	1,507418E+23	1,161260E+23	2,668677E+23
2548	7,537303E+22	7,537376E+22	5,806393E+22	5,806376E+22	1,507468E+23	1,161277E+23	2,668745E+23
2549	7,537203E+22	7,537030E+22	5,806368E+22	5,806402E+22	1,507423E+23	1,161277E+23	2,668700E+23
2550	7,537060E+22	7,537272E+22	5,806556E+22	5,806446E+22	1,507433E+23	1,161300E+23	2,668733E+23
2551	7,537228E+22	7,537320E+22	5,806564E+22	5,806641E+22	1,507455E+23	1,161320E+23	2,668775E+23
2552	7,537050E+22	7,536982E+22	5,806617E+22	5,806604E+22	1,507403E+23	1,161322E+23	2,668725E+23
2553	7,537112E+22	7,537300E+22	5,806745E+22	5,806662E+22	1,507441E+23	1,161341E+23	2,668782E+23
2554	7,537304E+22	7,537064E+22	5,806659E+22	5,806744E+22	1,507437E+23	1,161340E+23	2,668777E+23
2555	7,537117E+22	7,536998E+22	5,806697E+22	5,806646E+22	1,507411E+23	1,161334E+23	2,668746E+23
2556	7,537225E+22	7,537394E+22	5,806689E+22	5,806733E+22	1,507462E+23	1,161342E+23	2,668804E+23
2557	7,537185E+22	7,537100E+22	5,806560E+22	5,806665E+22	1,507429E+23	1,161322E+23	2,668751E+23
2558	7,537033E+22	7,537201E+22	5,806670E+22	5,806530E+22	1,507423E+23	1,161320E+23	2,668743E+23
2559	7,537247E+22	7,537309E+22	5,806616E+22	5,806598E+22	1,507456E+23	1,161321E+23	2,668777E+23
2560	7,537128E+22	7,536944E+22	5,806528E+22	5,806466E+22	1,507407E+23	1,161299E+23	2,668707E+23
2561	7,537060E+22	7,537250E+22	5,806581E+22	5,806451E+22	1,507431E+23	1,161303E+23	2,668734E+23
2562	7,537243E+22	7,537173E+22	5,806405E+22	5,806538E+22	1,507442E+23	1,161294E+23	2,668736E+23
2563	7,537050E+22	7,536987E+22	5,806386E+22	5,806415E+22	1,507404E+23	1,161280E+23	2,668684E+23
2564	7,537132E+22	7,537337E+22	5,806469E+22	5,806463E+22	1,507447E+23	1,161293E+23	2,668740E+23
2565	7,537241E+22	7,537073E+22	5,806367E+22	5,806437E+22	1,507431E+23	1,161280E+23	2,668712E+23
2566	7,537088E+22	7,537073E+22	5,806522E+22	5,806376E+22	1,507416E+23	1,161290E+23	2,668706E+23
2567	7,537240E+22	7,537328E+22	5,806570E+22	5,806576E+22	1,507457E+23	1,161315E+23	2,668771E+23
2568	7,537136E+22	7,537021E+22	5,806534E+22	5,806588E+22	1,507416E+23	1,161312E+23	2,668728E+23
2569	7,536968E+22	7,537234E+22	5,806743E+22	5,806635E+22	1,507420E+23	1,161338E+23	2,668758E+23
2570	7,537211E+22	7,537213E+22	5,806704E+22	5,806806E+22	1,507442E+23	1,161351E+23	2,668793E+23
2571	7,537098E+22	7,536897E+22	5,806746E+22	5,806732E+22	1,507400E+23	1,161348E+23	2,668747E+23
2572	7,537111E+22	7,537238E+22	5,806890E+22	5,806814E+22	1,507435E+23	1,161370E+23	2,668805E+23
2573	7,537258E+22	7,537118E+22	5,806733E+22	5,806859E+22	1,507438E+23	1,161359E+23	2,668797E+23
2574	7,537048E+22	7,537054E+22	5,806811E+22	5,806770E+22	1,507410E+23	1,161358E+23	2,668768E+23
2575	7,537136E+22	7,537357E+22	5,806852E+22	5,806865E+22	1,507449E+23	1,161372E+23	2,668821E+23
2576	7,537149E+22	7,537044E+22	5,806739E+22	5,806746E+22	1,507419E+23	1,161348E+23	2,668768E+23
2577	7,536987E+22	7,537123E+22	5,806853E+22	5,806641E+22	1,507411E+23	1,161349E+23	2,668760E+23
2578	7,537226E+22	7,537207E+22	5,806714E+22	5,806747E+22	1,507443E+23	1,161346E+23	2,668789E+23
2579	7,537115E+22	7,536908E+22	5,806601E+22	5,806622E+22	1,507402E+23	1,161322E+23	2,668725E+23
2580	7,536997E+22	7,537219E+22	5,806674E+22	5,806625E+22	1,507422E+23	1,161330E+23	2,668752E+23
2581	7,537194E+22	7,537181E+22	5,806479E+22	5,806639E+22	1,507437E+23	1,161312E+23	2,668749E+23
2582	7,537065E+22	7,536966E+22	5,806526E+22	5,806495E+22	1,507403E+23	1,161302E+23	2,668705E+23
2583	7,537137E+22	7,537255E+22	5,806638E+22	5,806573E+22	1,507439E+23	1,161321E+23	2,668760E+23
2584	7,537235E+22	7,537053E+22	5,806539E+22	5,806552E+22	1,507429E+23	1,161309E+23	2,668738E+23
2585	7,537001E+22	7,537085E+22	5,806703E+22	5,806550E+22	1,507409E+23	1,161325E+23	2,668734E+23
2586	7,537139E+22	7,537293E+22	5,806701E+22	5,806783E+22	1,507443E+23	1,161348E+23	2,668792E+23

1	14	15	16	17	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							
2587	7,537088E+22	7,536982E+22	5,806694E+22	5,806766E+22	1,507407E+23	1,161346E+23	2,668753E+23
2588	7,536934E+22	7,537133E+22	5,806924E+22	5,806809E+22	1,507407E+23	1,161373E+23	2,668780E+23
2589	7,537199E+22	7,537162E+22	5,806829E+22	5,806932E+22	1,507436E+23	1,161376E+23	2,668812E+23
2590	7,537121E+22	7,536883E+22	5,806878E+22	5,806870E+22	1,507400E+23	1,161375E+23	2,668775E+23
2591	7,537072E+22	7,537206E+22	5,807015E+22	5,806983E+22	1,507428E+23	1,161400E+23	2,668828E+23
2592	7,537209E+22	7,537143E+22	5,806867E+22	5,806983E+22	1,507435E+23	1,161385E+23	2,668820E+23
2593	7,536976E+22	7,537042E+22	5,806986E+22	5,806880E+22	1,507402E+23	1,161387E+23	2,668788E+23
2594	7,537103E+22	7,537256E+22	5,806990E+22	5,806968E+22	1,507436E+23	1,161396E+23	2,668832E+23
2595	7,537162E+22	7,536965E+22	5,806870E+22	5,806843E+22	1,507413E+23	1,161371E+23	2,668784E+23
2596	7,536943E+22	7,537043E+22	5,806975E+22	5,806794E+22	1,507399E+23	1,161377E+23	2,668776E+23
2597	7,537147E+22	7,537220E+22	5,806767E+22	5,806878E+22	1,507437E+23	1,161364E+23	2,668801E+23
2598	7,537071E+22	7,536930E+22	5,806683E+22	5,806755E+22	1,507400E+23	1,161344E+23	2,668744E+23
2599	7,536953E+22	7,537164E+22	5,806804E+22	5,806755E+22	1,507412E+23	1,161356E+23	2,668768E+23
2600	7,537208E+22	7,537147E+22	5,806637E+22	5,806713E+22	1,507436E+23	1,161335E+23	2,668770E+23
2601	7,537054E+22	7,536932E+22	5,806718E+22	5,806602E+22	1,507399E+23	1,161332E+23	2,668731E+23
2602	7,537108E+22	7,537202E+22	5,806779E+22	5,806732E+22	1,507431E+23	1,161351E+23	2,668782E+23
2603	7,537192E+22	7,537050E+22	5,806671E+22	5,806732E+22	1,507424E+23	1,161340E+23	2,668764E+23
2604	7,536894E+22	7,537049E+22	5,806860E+22	5,806771E+22	1,507394E+23	1,161363E+23	2,668757E+23
2605	7,537060E+22	7,537260E+22	5,806824E+22	5,806929E+22	1,507432E+23	1,161375E+23	2,668807E+23
2606	7,537100E+22	7,536906E+22	5,806848E+22	5,806897E+22	1,507401E+23	1,161375E+23	2,668775E+23
2607	7,536950E+22	7,537024E+22	5,807083E+22	5,806958E+22	1,507397E+23	1,161404E+23	2,668801E+23
2608	7,537218E+22	7,537142E+22	5,806968E+22	5,807051E+22	1,507436E+23	1,161402E+23	2,668838E+23
2609	7,537062E+22	7,536920E+22	5,807035E+22	5,807010E+22	1,507398E+23	1,161404E+23	2,668803E+23
2610	7,536997E+22	7,537198E+22	5,807137E+22	5,807127E+22	1,507419E+23	1,161426E+23	2,668846E+23
2611	7,537168E+22	7,537122E+22	5,807028E+22	5,807093E+22	1,507429E+23	1,161412E+23	2,668841E+23
2612	7,536916E+22	7,536962E+22	5,807168E+22	5,807019E+22	1,507388E+23	1,161419E+23	2,668807E+23
2613	7,537046E+22	7,537202E+22	5,807102E+22	5,807080E+22	1,507425E+23	1,161418E+23	2,668843E+23
2614	7,537147E+22	7,536930E+22	5,806976E+22	5,806996E+22	1,507408E+23	1,161397E+23	2,668805E+23
2615	7,536891E+22	7,536992E+22	5,807060E+22	5,806976E+22	1,507388E+23	1,161404E+23	2,668792E+23
2616	7,537120E+22	7,537213E+22	5,806859E+22	5,806999E+22	1,507433E+23	1,161386E+23	2,668819E+23
2617	7,537052E+22	7,536913E+22	5,806828E+22	5,806840E+22	1,507397E+23	1,161367E+23	2,668763E+23
2618	7,536974E+22	7,537079E+22	5,806921E+22	5,806835E+22	1,507405E+23	1,161376E+23	2,668781E+23
2619	7,537241E+22	7,537116E+22	5,806777E+22	5,806797E+22	1,507436E+23	1,161357E+23	2,668793E+23
2620	7,536995E+22	7,536910E+22	5,806866E+22	5,806763E+22	1,507390E+23	1,161363E+23	2,668753E+23
2621	7,536976E+22	7,537223E+22	5,806884E+22	5,806885E+22	1,507420E+23	1,161377E+23	2,668797E+23
2622	7,537109E+22	7,537050E+22	5,806819E+22	5,806909E+22	1,507416E+23	1,161373E+23	2,668789E+23
2623	7,536832E+22	7,536944E+22	5,807035E+22	5,806948E+22	1,507378E+23	1,161398E+23	2,668776E+23
2624	7,537076E+22	7,537174E+22	5,807002E+22	5,807053E+22	1,507425E+23	1,161406E+23	2,668831E+23
2625	7,537116E+22	7,536856E+22	5,807031E+22	5,807029E+22	1,507397E+23	1,161406E+23	2,668803E+23
2626	7,536955E+22	7,536974E+22	5,807195E+22	5,807124E+22	1,507393E+23	1,161432E+23	2,668825E+23
2627	7,537199E+22	7,537172E+22	5,807091E+22	5,807205E+22	1,507437E+23	1,161430E+23	2,668867E+23
2628	7,536971E+22	7,536923E+22	5,807190E+22	5,807186E+22	1,507389E+23	1,161438E+23	2,668827E+23
2629	7,536905E+22	7,537182E+22	5,807277E+22	5,807228E+22	1,507409E+23	1,161450E+23	2,668859E+23
2630	7,537158E+22	7,537065E+22	5,807186E+22	5,807205E+22	1,507422E+23	1,161439E+23	2,668862E+23
2631	7,536885E+22	7,536857E+22	5,807313E+22	5,807170E+22	1,507374E+23	1,161448E+23	2,668823E+23
2632	7,537027E+22	7,537167E+22	5,807209E+22	5,807209E+22	1,507419E+23	1,161442E+23	2,668861E+23
2633	7,537084E+22	7,536939E+22	5,807089E+22	5,807134E+22	1,507402E+23	1,161422E+23	2,668825E+23
2634	7,536857E+22	7,536957E+22	5,807135E+22	5,807108E+22	1,507381E+23	1,161424E+23	2,668806E+23
2635	7,537139E+22	7,537180E+22	5,806980E+22	5,807072E+22	1,507432E+23	1,161405E+23	2,668837E+23

1	14	15	16	17	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							
2636	7,537030E+22	7,536860E+22	5,806983E+22	5,806946E+22	1,507389E+23	1,161393E+23	2,668782E+23
2637	7,536927E+22	7,537063E+22	5,807035E+22	5,806915E+22	1,507399E+23	1,161395E+23	2,668794E+23
2638	7,537200E+22	7,537114E+22	5,806905E+22	5,806946E+22	1,507431E+23	1,161385E+23	2,668816E+23
2639	7,536893E+22	7,536874E+22	5,807006E+22	5,806970E+22	1,507377E+23	1,161398E+23	2,668774E+23
2640	7,536913E+22	7,537188E+22	5,807032E+22	5,807043E+22	1,507410E+23	1,161408E+23	2,668818E+23
2641	7,537075E+22	7,536985E+22	5,807012E+22	5,807044E+22	1,507406E+23	1,161406E+23	2,668811E+23
2642	7,536865E+22	7,536826E+22	5,807165E+22	5,807086E+22	1,507369E+23	1,161425E+23	2,668794E+23
2643	7,537129E+22	7,537120E+22	5,807142E+22	5,807178E+22	1,507425E+23	1,161432E+23	2,668857E+23
2644	7,537071E+22	7,536864E+22	5,807172E+22	5,807207E+22	1,507393E+23	1,161438E+23	2,668831E+23
2645	7,536851E+22	7,537030E+22	5,807299E+22	5,807261E+22	1,507388E+23	1,161456E+23	2,668844E+23
2646	7,537131E+22	7,537201E+22	5,807251E+22	5,807355E+22	1,507433E+23	1,161461E+23	2,668894E+23
2647	7,536897E+22	7,536855E+22	5,807386E+22	5,807344E+22	1,507375E+23	1,161473E+23	2,668848E+23
2648	7,536883E+22	7,537105E+22	5,807460E+22	5,807345E+22	1,507399E+23	1,161481E+23	2,668879E+23
2649	7,537134E+22	7,537006E+22	5,807363E+22	5,807344E+22	1,507414E+23	1,161471E+23	2,668885E+23
2650	7,536874E+22	7,536774E+22	5,807385E+22	5,807342E+22	1,507365E+23	1,161473E+23	2,668837E+23
2651	7,537021E+22	7,537149E+22	5,807285E+22	5,807349E+22	1,507417E+23	1,161463E+23	2,668880E+23
2652	7,537037E+22	7,536924E+22	5,807182E+22	5,807264E+22	1,507396E+23	1,161445E+23	2,668841E+23
2653	7,536822E+22	7,536926E+22	5,807217E+22	5,807149E+22	1,507375E+23	1,161437E+23	2,668811E+23
2654	7,537162E+22	7,537152E+22	5,807106E+22	5,807134E+22	1,507431E+23	1,161424E+23	2,668855E+23
2655	7,536993E+22	7,536809E+22	5,807125E+22	5,807070E+22	1,507380E+23	1,161419E+23	2,668800E+23
2656	7,536858E+22	7,537063E+22	5,807173E+22	5,807043E+22	1,507392E+23	1,161422E+23	2,668814E+23
2657	7,537087E+22	7,537129E+22	5,807072E+22	5,807104E+22	1,507422E+23	1,161418E+23	2,668839E+23
2658	7,536825E+22	7,536798E+22	5,807133E+22	5,807149E+22	1,507362E+23	1,161428E+23	2,668791E+23
2659	7,536923E+22	7,537101E+22	5,807197E+22	5,807179E+22	1,507402E+23	1,161438E+23	2,668840E+23
2660	7,537067E+22	7,536907E+22	5,807175E+22	5,807213E+22	1,507397E+23	1,161439E+23	2,668836E+23
2661	7,536848E+22	7,536801E+22	5,807274E+22	5,807218E+22	1,507365E+23	1,161449E+23	2,668814E+23
2662	7,537122E+22	7,537146E+22	5,807264E+22	5,807350E+22	1,507427E+23	1,161461E+23	2,668888E+23
2663	7,536985E+22	7,536875E+22	5,807324E+22	5,807406E+22	1,507386E+23	1,161473E+23	2,668859E+23
2664	7,536793E+22	7,537028E+22	5,807477E+22	5,807391E+22	1,507382E+23	1,161487E+23	2,668869E+23
2665	7,537085E+22	7,537147E+22	5,807475E+22	5,807467E+22	1,507423E+23	1,161494E+23	2,668917E+23
2666	7,536903E+22	7,536737E+22	5,807535E+22	5,807486E+22	1,507364E+23	1,161502E+23	2,668866E+23
2667	7,536907E+22	7,537023E+22	5,807587E+22	5,807474E+22	1,507393E+23	1,161506E+23	2,668899E+23
2668	7,537064E+22	7,536978E+22	5,807464E+22	5,807521E+22	1,507404E+23	1,161499E+23	2,668903E+23
2669	7,536790E+22	7,536792E+22	5,807429E+22	5,807452E+22	1,507358E+23	1,161488E+23	2,668846E+23
2670	7,537001E+22	7,537145E+22	5,807377E+22	5,807450E+22	1,507415E+23	1,161483E+23	2,668897E+23
2671	7,537000E+22	7,536874E+22	5,807327E+22	5,807362E+22	1,507387E+23	1,161469E+23	2,668856E+23
2672	7,536821E+22	7,536893E+22	5,807366E+22	5,807211E+22	1,507371E+23	1,161458E+23	2,668829E+23
2673	7,537115E+22	7,537137E+22	5,807284E+22	5,807238E+22	1,507425E+23	1,161452E+23	2,668877E+23
2674	7,536934E+22	7,536766E+22	5,807231E+22	5,807250E+22	1,507370E+23	1,161448E+23	2,668818E+23
2675	7,536804E+22	7,537028E+22	5,807298E+22	5,807217E+22	1,507383E+23	1,161452E+23	2,668835E+23
2676	7,537003E+22	7,537071E+22	5,807221E+22	5,807292E+22	1,507407E+23	1,161451E+23	2,668859E+23
2677	7,536801E+22	7,536722E+22	5,807240E+22	5,807255E+22	1,507352E+23	1,161449E+23	2,668802E+23
2678	7,536978E+22	7,537041E+22	5,807321E+22	5,807307E+22	1,507402E+23	1,161463E+23	2,668865E+23
2679	7,537056E+22	7,536875E+22	5,807314E+22	5,807377E+22	1,507393E+23	1,161469E+23	2,668862E+23
2680	7,536810E+22	7,536835E+22	5,807416E+22	5,807356E+22	1,507364E+23	1,161477E+23	2,668842E+23
2681	7,537033E+22	7,537194E+22	5,807465E+22	5,807494E+22	1,507423E+23	1,161496E+23	2,668919E+23
2682	7,536929E+22	7,536819E+22	5,807496E+22	5,807567E+22	1,507375E+23	1,161506E+23	2,668881E+23
2683	7,536782E+22	7,536939E+22	5,807682E+22	5,807522E+22	1,507372E+23	1,161520E+23	2,668892E+23
2684	7,537036E+22	7,537064E+22	5,807651E+22	5,807637E+22	1,507410E+23	1,161529E+23	2,668939E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,536854E+22	7,536672E+22	5,807621E+22	5,807626E+22	1,507353E+23	1,161525E+23	2,668877E+23
2686	7,536891E+22	7,537009E+22	5,807661E+22	5,807646E+22	1,507390E+23	1,161531E+23	2,668921E+23
2687	7,536997E+22	7,536965E+22	5,807552E+22	5,807688E+22	1,507396E+23	1,161524E+23	2,668920E+23
2688	7,536772E+22	7,536781E+22	5,807543E+22	5,807525E+22	1,507355E+23	1,161507E+23	2,668862E+23
2689	7,536993E+22	7,537117E+22	5,807549E+22	5,807494E+22	1,507411E+23	1,161504E+23	2,668915E+23
2690	7,537006E+22	7,536802E+22	5,807447E+22	5,807455E+22	1,507381E+23	1,161490E+23	2,668871E+23
2691	7,536809E+22	7,536855E+22	5,807504E+22	5,807323E+22	1,507366E+23	1,161483E+23	2,668849E+23
2692	7,536990E+22	7,537134E+22	5,807413E+22	5,807422E+22	1,507412E+23	1,161483E+23	2,668896E+23
2693	7,536816E+22	7,536752E+22	5,807319E+22	5,807400E+22	1,507357E+23	1,161472E+23	2,668829E+23
2694	7,536783E+22	7,536971E+22	5,807423E+22	5,807372E+22	1,507375E+23	1,161480E+23	2,668855E+23
2695	7,536982E+22	7,536976E+22	5,807380E+22	5,807451E+22	1,507396E+23	1,161483E+23	2,668879E+23
2696	7,536836E+22	7,536675E+22	5,807385E+22	5,807363E+22	1,507351E+23	1,161475E+23	2,668826E+23
2697	7,536977E+22	7,537031E+22	5,807493E+22	5,807436E+22	1,507401E+23	1,161493E+23	2,668894E+23
2698	7,537025E+22	7,536873E+22	5,807436E+22	5,807561E+22	1,507390E+23	1,161500E+23	2,668890E+23
2699	7,536777E+22	7,536833E+22	5,807580E+22	5,807510E+22	1,507361E+23	1,161509E+23	2,668870E+23
2700	7,536931E+22	7,537148E+22	5,807665E+22	5,807659E+22	1,507408E+23	1,161532E+23	2,668940E+23
2701	7,536878E+22	7,536741E+22	5,807649E+22	5,807682E+22	1,507362E+23	1,161533E+23	2,668895E+23
2702	7,536796E+22	7,536856E+22	5,807816E+22	5,807676E+22	1,507365E+23	1,161549E+23	2,668914E+23
2703	7,536977E+22	7,537007E+22	5,807777E+22	5,807827E+22	1,507398E+23	1,161560E+23	2,668959E+23
2704	7,536807E+22	7,536687E+22	5,807712E+22	5,807762E+22	1,507349E+23	1,161547E+23	2,668897E+23
2705	7,536833E+22	7,537026E+22	5,807799E+22	5,807757E+22	1,507386E+23	1,161556E+23	2,668942E+23
2706	7,536980E+22	7,536918E+22	5,807672E+22	5,807796E+22	1,507390E+23	1,161547E+23	2,668937E+23
2707	7,536800E+22	7,536720E+22	5,807704E+22	5,807596E+22	1,507352E+23	1,161530E+23	2,668882E+23
2708	7,536939E+22	7,537072E+22	5,807712E+22	5,807614E+22	1,507401E+23	1,161533E+23	2,668934E+23
2709	7,536940E+22	7,536773E+22	5,807539E+22	5,807575E+22	1,507371E+23	1,161511E+23	2,668883E+23
2710	7,536760E+22	7,536842E+22	5,807591E+22	5,807504E+22	1,507360E+23	1,161509E+23	2,668870E+23
2711	7,536891E+22	7,537092E+22	5,807530E+22	5,807612E+22	1,507398E+23	1,161514E+23	2,668913E+23
2712	7,536800E+22	7,536691E+22	5,807448E+22	5,807505E+22	1,507349E+23	1,161495E+23	2,668844E+23
2713	7,536812E+22	7,536906E+22	5,807593E+22	5,807458E+22	1,507372E+23	1,161505E+23	2,668877E+23
2714	7,537028E+22	7,536898E+22	5,807491E+22	5,807577E+22	1,507393E+23	1,161507E+23	2,668899E+23
2715	7,536853E+22	7,536658E+22	5,807526E+22	5,807490E+22	1,507351E+23	1,161502E+23	2,668853E+23
2716	7,536867E+22	7,537071E+22	5,807646E+22	5,807607E+22	1,507394E+23	1,161525E+23	2,668919E+23
2717	7,536911E+22	7,536878E+22	5,807571E+22	5,807699E+22	1,507379E+23	1,161527E+23	2,668906E+23
2718	7,536734E+22	7,536790E+22	5,807760E+22	5,807674E+22	1,507352E+23	1,161543E+23	2,668896E+23
2719	7,536862E+22	7,537060E+22	5,807861E+22	5,807841E+22	1,507392E+23	1,161570E+23	2,668962E+23
2720	7,536862E+22	7,536676E+22	5,807810E+22	5,807829E+22	1,507354E+23	1,161564E+23	2,668918E+23
2721	7,536772E+22	7,536823E+22	5,807969E+22	5,807838E+22	1,507360E+23	1,161581E+23	2,668940E+23
2722	7,536947E+22	7,536970E+22	5,807862E+22	5,808017E+22	1,507392E+23	1,161588E+23	2,668980E+23
2723	7,536809E+22	7,536666E+22	5,807835E+22	5,807883E+22	1,507347E+23	1,161572E+23	2,668919E+23
2724	7,536791E+22	7,536990E+22	5,807950E+22	5,807856E+22	1,507378E+23	1,161581E+23	2,668959E+23
2725	7,536970E+22	7,536866E+22	5,807784E+22	5,807846E+22	1,507384E+23	1,161563E+23	2,668947E+23
2726	7,536817E+22	7,536687E+22	5,807815E+22	5,807703E+22	1,507350E+23	1,161552E+23	2,668902E+23
2727	7,536838E+22	7,537049E+22	5,807836E+22	5,807777E+22	1,507389E+23	1,161561E+23	2,668950E+23
2728	7,536849E+22	7,536789E+22	5,807649E+22	5,807709E+22	1,507364E+23	1,161536E+23	2,668899E+23
2729	7,536692E+22	7,536813E+22	5,807738E+22	5,807631E+22	1,507351E+23	1,161537E+23	2,668887E+23
2730	7,536878E+22	7,536992E+22	5,807658E+22	5,807752E+22	1,507387E+23	1,161541E+23	2,668928E+23
2731	7,536856E+22	7,536610E+22	5,807593E+22	5,807601E+22	1,507347E+23	1,161519E+23	2,668866E+23
2732	7,536788E+22	7,536860E+22	5,807733E+22	5,807594E+22	1,507365E+23	1,161533E+23	2,668897E+23
2733	7,536985E+22	7,536898E+22	5,807585E+22	5,807707E+22	1,507388E+23	1,161529E+23	2,668917E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2734	7,536814E+22	7,536690E+22	5,807636E+22	5,807671E+22	1,507350E+23	1,161531E+23	2,668881E+23
2735	7,536746E+22	7,537054E+22	5,807824E+22	5,807794E+22	1,507380E+23	1,161562E+23	2,668942E+23
2736	7,536863E+22	7,536833E+22	5,807763E+22	5,807818E+22	1,507370E+23	1,161558E+23	2,668928E+23
2737	7,536724E+22	7,536710E+22	5,807968E+22	5,807801E+22	1,507343E+23	1,161577E+23	2,668920E+23
2738	7,536860E+22	7,536959E+22	5,808000E+22	5,808020E+22	1,507382E+23	1,161602E+23	2,668984E+23
2739	7,536865E+22	7,536635E+22	5,807943E+22	5,807991E+22	1,507350E+23	1,161593E+23	2,668943E+23
2740	7,536689E+22	7,536831E+22	5,808092E+22	5,808012E+22	1,507352E+23	1,161610E+23	2,668962E+23
2741	7,536897E+22	7,536953E+22	5,807961E+22	5,808123E+22	1,507385E+23	1,161608E+23	2,668993E+23
2742	7,536823E+22	7,536641E+22	5,807967E+22	5,807987E+22	1,507346E+23	1,161595E+23	2,668942E+23
2743	7,536748E+22	7,536942E+22	5,808112E+22	5,807969E+22	1,507369E+23	1,161608E+23	2,668977E+23
2744	7,536941E+22	7,536843E+22	5,807922E+22	5,807937E+22	1,507378E+23	1,161586E+23	2,668964E+23
2745	7,536760E+22	7,536686E+22	5,807957E+22	5,807842E+22	1,507345E+23	1,161580E+23	2,668924E+23
2746	7,536762E+22	7,537008E+22	5,807918E+22	5,807957E+22	1,507377E+23	1,161588E+23	2,668965E+23
2747	7,536823E+22	7,536721E+22	5,807775E+22	5,807838E+22	1,507354E+23	1,161561E+23	2,668916E+23
2748	7,536659E+22	7,536739E+22	5,807874E+22	5,807743E+22	1,507340E+23	1,161562E+23	2,668902E+23
2749	7,536898E+22	7,536904E+22	5,807743E+22	5,807826E+22	1,507380E+23	1,161557E+23	2,668937E+23
2750	7,536893E+22	7,536596E+22	5,807684E+22	5,807723E+22	1,507349E+23	1,161541E+23	2,668890E+23
2751	7,536703E+22	7,536882E+22	5,807857E+22	5,807753E+22	1,507359E+23	1,161561E+23	2,668920E+23
2752	7,536892E+22	7,536948E+22	5,807728E+22	5,807834E+22	1,507384E+23	1,161556E+23	2,668940E+23
2753	7,536736E+22	7,536689E+22	5,807848E+22	5,807811E+22	1,507342E+23	1,161566E+23	2,668908E+23
2754	7,536697E+22	7,536955E+22	5,808018E+22	5,807966E+22	1,507365E+23	1,161598E+23	2,668963E+23
2755	7,536879E+22	7,536727E+22	5,807970E+22	5,807973E+22	1,507361E+23	1,161594E+23	2,668955E+23
2756	7,536687E+22	7,536637E+22	5,808133E+22	5,807991E+22	1,507332E+23	1,161612E+23	2,668945E+23
2757	7,536830E+22	7,536916E+22	5,808086E+22	5,808192E+22	1,507375E+23	1,161628E+23	2,669002E+23
2758	7,536862E+22	7,536655E+22	5,808023E+22	5,808169E+22	1,507352E+23	1,161619E+23	2,668971E+23
2759	7,536627E+22	7,536814E+22	5,808229E+22	5,808157E+22	1,507344E+23	1,161639E+23	2,668983E+23
2760	7,536892E+22	7,536938E+22	5,808117E+22	5,808181E+22	1,507383E+23	1,161630E+23	2,669013E+23
2761	7,536828E+22	7,536614E+22	5,808138E+22	5,808060E+22	1,507344E+23	1,161620E+23	2,668964E+23
2762	7,536701E+22	7,536886E+22	5,808237E+22	5,808106E+22	1,507359E+23	1,161634E+23	2,668993E+23
2763	7,536886E+22	7,536826E+22	5,808048E+22	5,808072E+22	1,507371E+23	1,161612E+23	2,668983E+23
2764	7,536632E+22	7,536664E+22	5,808073E+22	5,808000E+22	1,507330E+23	1,161607E+23	2,668937E+23
2765	7,536702E+22	7,536929E+22	5,808010E+22	5,808069E+22	1,507363E+23	1,161608E+23	2,668971E+23
2766	7,536854E+22	7,536660E+22	5,807873E+22	5,807953E+22	1,507351E+23	1,161583E+23	2,668934E+23
2767	7,536643E+22	7,536678E+22	5,807996E+22	5,807868E+22	1,507332E+23	1,161586E+23	2,668919E+23
2768	7,536895E+22	7,536901E+22	5,807858E+22	5,807917E+22	1,507380E+23	1,161577E+23	2,668957E+23
2769	7,536854E+22	7,536634E+22	5,807823E+22	5,807858E+22	1,507349E+23	1,161568E+23	2,668917E+23
2770	7,536622E+22	7,536871E+22	5,807993E+22	5,807929E+22	1,507349E+23	1,161592E+23	2,668941E+23
2771	7,536856E+22	7,536895E+22	5,807927E+22	5,807970E+22	1,507375E+23	1,161590E+23	2,668965E+23
2772	7,536681E+22	7,536607E+22	5,808057E+22	5,807959E+22	1,507329E+23	1,161602E+23	2,668930E+23
2773	7,536695E+22	7,536840E+22	5,808155E+22	5,808106E+22	1,507353E+23	1,161626E+23	2,668980E+23
2774	7,536893E+22	7,536688E+22	5,808081E+22	5,808163E+22	1,507358E+23	1,161624E+23	2,668982E+23
2775	7,536611E+22	7,536640E+22	5,808246E+22	5,808194E+22	1,507325E+23	1,161644E+23	2,668969E+23
2776	7,536774E+22	7,536939E+22	5,808206E+22	5,808319E+22	1,507371E+23	1,161653E+23	2,669024E+23
2777	7,536832E+22	7,536672E+22	5,808200E+22	5,808277E+22	1,507350E+23	1,161648E+23	2,668998E+23
2778	7,536609E+22	7,536758E+22	5,808389E+22	5,808271E+22	1,507337E+23	1,161666E+23	2,669003E+23
2779	7,536894E+22	7,536871E+22	5,808301E+22	5,808280E+22	1,507376E+23	1,161658E+23	2,669035E+23
2780	7,536748E+22	7,536582E+22	5,808297E+22	5,808209E+22	1,507333E+23	1,161651E+23	2,668984E+23
2781	7,536620E+22	7,536833E+22	5,808311E+22	5,808261E+22	1,507345E+23	1,161657E+23	2,669003E+23
2782	7,536837E+22	7,536806E+22	5,808121E+22	5,808242E+22	1,507364E+23	1,161636E+23	2,669001E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,536572E+22	7,536598E+22	5,808181E+22	5,808136E+22	1,507317E+23	1,161632E+23	2,668949E+23
2784	7,536722E+22	7,536860E+22	5,808121E+22	5,808121E+22	1,507358E+23	1,161624E+23	2,668982E+23
2785	7,536893E+22	7,536637E+22	5,807999E+22	5,808025E+22	1,507353E+23	1,161602E+23	2,668955E+23
2786	7,536625E+22	7,536655E+22	5,808098E+22	5,807997E+22	1,507328E+23	1,161609E+23	2,668938E+23
2787	7,536850E+22	7,536918E+22	5,808006E+22	5,808042E+22	1,507377E+23	1,161605E+23	2,668982E+23
2788	7,536734E+22	7,536650E+22	5,808000E+22	5,808014E+22	1,507338E+23	1,161601E+23	2,668940E+23
2789	7,536550E+22	7,536795E+22	5,808155E+22	5,808070E+22	1,507334E+23	1,161622E+23	2,668957E+23
2790	7,536851E+22	7,536829E+22	5,808091E+22	5,808138E+22	1,507368E+23	1,161623E+23	2,668991E+23
2791	7,536638E+22	7,536521E+22	5,808221E+22	5,808155E+22	1,507316E+23	1,161638E+23	2,668954E+23
2792	7,536681E+22	7,536805E+22	5,808286E+22	5,808266E+22	1,507349E+23	1,161655E+23	2,669004E+23
2793	7,536871E+22	7,536716E+22	5,808199E+22	5,808340E+22	1,507359E+23	1,161654E+23	2,669013E+23
2794	7,536562E+22	7,536621E+22	5,808363E+22	5,808371E+22	1,507318E+23	1,161673E+23	2,668992E+23
2795	7,536779E+22	7,536898E+22	5,808391E+22	5,808416E+22	1,507368E+23	1,161681E+23	2,669048E+23
2796	7,536798E+22	7,536624E+22	5,808392E+22	5,808369E+22	1,507342E+23	1,161676E+23	2,669018E+23
2797	7,536591E+22	7,536678E+22	5,808520E+22	5,808373E+22	1,507327E+23	1,161689E+23	2,669016E+23
2798	7,536858E+22	7,536859E+22	5,808405E+22	5,808433E+22	1,507372E+23	1,161684E+23	2,669056E+23
2799	7,536622E+22	7,536569E+22	5,808405E+22	5,808391E+22	1,507319E+23	1,161680E+23	2,668999E+23
2800	7,536541E+22	7,536805E+22	5,808416E+22	5,808375E+22	1,507335E+23	1,161679E+23	2,669014E+23
2801	7,536818E+22	7,536766E+22	5,808253E+22	5,808348E+22	1,507358E+23	1,161660E+23	2,669019E+23
2802	7,536582E+22	7,536512E+22	5,808294E+22	5,808247E+22	1,507309E+23	1,161654E+23	2,668964E+23
2803	7,536770E+22	7,536797E+22	5,808260E+22	5,808207E+22	1,507357E+23	1,161647E+23	2,669003E+23
2804	7,536844E+22	7,536648E+22	5,808134E+22	5,808149E+22	1,507349E+23	1,161628E+23	2,668978E+23
2805	7,536565E+22	7,536650E+22	5,808187E+22	5,808139E+22	1,507321E+23	1,161633E+23	2,668954E+23
2806	7,536787E+22	7,536925E+22	5,808132E+22	5,808206E+22	1,507371E+23	1,161634E+23	2,669005E+23
2807	7,536651E+22	7,536592E+22	5,808179E+22	5,808180E+22	1,507324E+23	1,161636E+23	2,668960E+23
2808	7,536538E+22	7,536701E+22	5,808316E+22	5,808183E+22	1,507324E+23	1,161650E+23	2,668974E+23
2809	7,536852E+22	7,536782E+22	5,808245E+22	5,808296E+22	1,507363E+23	1,161654E+23	2,669018E+23
2810	7,536606E+22	7,536483E+22	5,808328E+22	5,808345E+22	1,507309E+23	1,161667E+23	2,668976E+23
2811	7,536654E+22	7,536788E+22	5,808425E+22	5,808421E+22	1,507344E+23	1,161685E+23	2,669029E+23
2812	7,536791E+22	7,536728E+22	5,808376E+22	5,808479E+22	1,507352E+23	1,161685E+23	2,669037E+23
2813	7,536543E+22	7,536558E+22	5,808518E+22	5,808481E+22	1,507310E+23	1,161700E+23	2,669010E+23
2814	7,536782E+22	7,536857E+22	5,808559E+22	5,808540E+22	1,507364E+23	1,161710E+23	2,669074E+23
2815	7,536736E+22	7,536574E+22	5,808563E+22	5,808529E+22	1,507331E+23	1,161709E+23	2,669040E+23
2816	7,536526E+22	7,536646E+22	5,808644E+22	5,808511E+22	1,507317E+23	1,161716E+23	2,669033E+23
2817	7,536783E+22	7,536871E+22	5,808510E+22	5,808606E+22	1,507365E+23	1,161712E+23	2,669077E+23
2818	7,536558E+22	7,536510E+22	5,808500E+22	5,808556E+22	1,507307E+23	1,161706E+23	2,669012E+23
2819	7,536569E+22	7,536709E+22	5,808559E+22	5,808461E+22	1,507328E+23	1,161702E+23	2,669030E+23
2820	7,536826E+22	7,536710E+22	5,808393E+22	5,808421E+22	1,507354E+23	1,161681E+23	2,669035E+23
2821	7,536607E+22	7,536454E+22	5,808373E+22	5,808335E+22	1,507306E+23	1,161671E+23	2,668977E+23
2822	7,536749E+22	7,536831E+22	5,808344E+22	5,808333E+22	1,507358E+23	1,161668E+23	2,669026E+23
2823	7,536722E+22	7,536675E+22	5,808259E+22	5,808309E+22	1,507340E+23	1,161657E+23	2,668997E+23
2824	7,536473E+22	7,536638E+22	5,808340E+22	5,808255E+22	1,507311E+23	1,161660E+23	2,668971E+23
2825	7,536738E+22	7,536890E+22	5,808305E+22	5,808342E+22	1,507363E+23	1,161665E+23	2,669028E+23
2826	7,536620E+22	7,536482E+22	5,808340E+22	5,808351E+22	1,507310E+23	1,161669E+23	2,668979E+23
2827	7,536563E+22	7,536600E+22	5,808486E+22	5,808335E+22	1,507316E+23	1,161682E+23	2,668998E+23
2828	7,536807E+22	7,536757E+22	5,808389E+22	5,808469E+22	1,507356E+23	1,161686E+23	2,669042E+23
2829	7,536579E+22	7,536456E+22	5,808417E+22	5,808514E+22	1,507304E+23	1,161693E+23	2,668997E+23
2830	7,536644E+22	7,536791E+22	5,808553E+22	5,808566E+22	1,507343E+23	1,161712E+23	2,669055E+23
2831	7,536744E+22	7,536689E+22	5,808562E+22	5,808606E+22	1,507343E+23	1,161717E+23	2,669060E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	7,536532E+22	7,536509E+22	5,808690E+22	5,808565E+22	1,507304E+23	1,161726E+23	2,669030E+23
2833	7,536743E+22	7,536849E+22	5,808714E+22	5,808684E+22	1,507359E+23	1,161740E+23	2,669099E+23
2834	7,536644E+22	7,536546E+22	5,808689E+22	5,808723E+22	1,507319E+23	1,161741E+23	2,669060E+23
2835	7,536468E+22	7,536603E+22	5,808782E+22	5,808669E+22	1,507307E+23	1,161745E+23	2,669052E+23
2836	7,536703E+22	7,536835E+22	5,808662E+22	5,808737E+22	1,507354E+23	1,161740E+23	2,669094E+23
2837	7,536573E+22	7,536418E+22	5,808599E+22	5,808658E+22	1,507299E+23	1,161726E+23	2,669025E+23
2838	7,536615E+22	7,536660E+22	5,808659E+22	5,808561E+22	1,507327E+23	1,161722E+23	2,669050E+23
2839	7,536799E+22	7,536692E+22	5,808514E+22	5,808545E+22	1,507349E+23	1,161706E+23	2,669055E+23
2840	7,536564E+22	7,536468E+22	5,808462E+22	5,808436E+22	1,507303E+23	1,161690E+23	2,668993E+23
2841	7,536663E+22	7,536876E+22	5,808456E+22	5,808476E+22	1,507354E+23	1,161693E+23	2,669047E+23
2842	7,536637E+22	7,536631E+22	5,808401E+22	5,808459E+22	1,507327E+23	1,161686E+23	2,669013E+23
2843	7,536471E+22	7,536517E+22	5,808526E+22	5,808359E+22	1,507299E+23	1,161689E+23	2,668987E+23
2844	7,536712E+22	7,536804E+22	5,808487E+22	5,808461E+22	1,507352E+23	1,161695E+23	2,669046E+23
2845	7,536631E+22	7,536397E+22	5,808436E+22	5,808504E+22	1,507303E+23	1,161694E+23	2,668997E+23
2846	7,536549E+22	7,536602E+22	5,808577E+22	5,808510E+22	1,507315E+23	1,161709E+23	2,669024E+23
2847	7,536718E+22	7,536771E+22	5,808526E+22	5,808646E+22	1,507349E+23	1,161717E+23	2,669066E+23
2848	7,536529E+22	7,536450E+22	5,808575E+22	5,808622E+22	1,507298E+23	1,161720E+23	2,669018E+23
2849	7,536616E+22	7,536789E+22	5,808739E+22	5,808691E+22	1,507340E+23	1,161743E+23	2,669083E+23
2850	7,536707E+22	7,536627E+22	5,808750E+22	5,808768E+22	1,507333E+23	1,161752E+23	2,669085E+23
2851	7,536517E+22	7,536439E+22	5,808882E+22	5,808723E+22	1,507296E+23	1,161761E+23	2,669056E+23
2852	7,536646E+22	7,536838E+22	5,808871E+22	5,808863E+22	1,507348E+23	1,161773E+23	2,669122E+23
2853	7,536589E+22	7,536491E+22	5,808774E+22	5,808908E+22	1,507308E+23	1,161768E+23	2,669076E+23
2854	7,536468E+22	7,536552E+22	5,808883E+22	5,808807E+22	1,507302E+23	1,161769E+23	2,669071E+23
2855	7,536697E+22	7,536751E+22	5,808792E+22	5,808841E+22	1,507345E+23	1,161763E+23	2,669108E+23
2856	7,536602E+22	7,536374E+22	5,808697E+22	5,808705E+22	1,507298E+23	1,161740E+23	2,669038E+23
2857	7,536611E+22	7,536693E+22	5,808740E+22	5,808650E+22	1,507330E+23	1,161739E+23	2,669069E+23
2858	7,536708E+22	7,536704E+22	5,808613E+22	5,808678E+22	1,507341E+23	1,161729E+23	2,669070E+23
2859	7,536493E+22	7,536454E+22	5,808617E+22	5,808549E+22	1,507295E+23	1,161717E+23	2,669011E+23
2860	7,536555E+22	7,536840E+22	5,808643E+22	5,808585E+22	1,507339E+23	1,161723E+23	2,669062E+23
2861	7,536618E+22	7,536516E+22	5,808543E+22	5,808595E+22	1,507313E+23	1,161714E+23	2,669027E+23
2862	7,536495E+22	7,536432E+22	5,808654E+22	5,808509E+22	1,507293E+23	1,161716E+23	2,669009E+23
2863	7,536676E+22	7,536741E+22	5,808619E+22	5,808643E+22	1,507342E+23	1,161726E+23	2,669068E+23
2864	7,536594E+22	7,536405E+22	5,808524E+22	5,808650E+22	1,507300E+23	1,161717E+23	2,669017E+23
2865	7,536505E+22	7,536653E+22	5,808680E+22	5,808676E+22	1,507316E+23	1,161736E+23	2,669051E+23
2866	7,536668E+22	7,536743E+22	5,808697E+22	5,808797E+22	1,507341E+23	1,161749E+23	2,669090E+23
2867	7,536548E+22	7,536378E+22	5,808793E+22	5,808726E+22	1,507293E+23	1,161752E+23	2,669045E+23
2868	7,536567E+22	7,536750E+22	5,808955E+22	5,808813E+22	1,507332E+23	1,161777E+23	2,669108E+23
2869	7,536674E+22	7,536570E+22	5,808884E+22	5,808946E+22	1,507324E+23	1,161783E+23	2,669107E+23
2870	7,536464E+22	7,536422E+22	5,808997E+22	5,808916E+22	1,507289E+23	1,161791E+23	2,669080E+23
2871	7,536547E+22	7,536804E+22	5,809012E+22	5,809046E+22	1,507335E+23	1,161806E+23	2,669141E+23
2872	7,536562E+22	7,536442E+22	5,808885E+22	5,809003E+22	1,507300E+23	1,161789E+23	2,669089E+23
2873	7,536484E+22	7,536523E+22	5,808988E+22	5,808908E+22	1,507301E+23	1,161790E+23	2,669090E+23
2874	7,536698E+22	7,536696E+22	5,808915E+22	5,808949E+22	1,507339E+23	1,161786E+23	2,669126E+23
2875	7,536607E+22	7,536343E+22	5,808827E+22	5,808795E+22	1,507295E+23	1,161762E+23	2,669057E+23
2876	7,536511E+22	7,536728E+22	5,808874E+22	5,808759E+22	1,507324E+23	1,161763E+23	2,669087E+23
2877	7,536639E+22	7,536676E+22	5,808709E+22	5,808817E+22	1,507331E+23	1,161753E+23	2,669084E+23
2878	7,536462E+22	7,536392E+22	5,808754E+22	5,808674E+22	1,507285E+23	1,161743E+23	2,669028E+23
2879	7,536511E+22	7,536735E+22	5,808805E+22	5,808716E+22	1,507325E+23	1,161752E+23	2,669077E+23
2880	7,536613E+22	7,536443E+22	5,808649E+22	5,808704E+22	1,507306E+23	1,161735E+23	2,669041E+23

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2881	7,536480E+22	7,536446E+22	5,808729E+22	5,808673E+22	1,507293E+23	1,161740E+23	2,669033E+23
2882	7,536611E+22	7,536740E+22	5,808728E+22	5,808823E+22	1,507335E+23	1,161755E+23	2,669090E+23
2883	7,536565E+22	7,536402E+22	5,808690E+22	5,808778E+22	1,507297E+23	1,161747E+23	2,669043E+23
2884	7,536445E+22	7,536651E+22	5,808893E+22	5,808778E+22	1,507310E+23	1,161767E+23	2,669077E+23
2885	7,536665E+22	7,536666E+22	5,808878E+22	5,808940E+22	1,507333E+23	1,161782E+23	2,669115E+23
2886	7,536553E+22	7,536324E+22	5,808978E+22	5,808894E+22	1,507288E+23	1,161787E+23	2,669075E+23
2887	7,536489E+22	7,536692E+22	5,809124E+22	5,809016E+22	1,507318E+23	1,161814E+23	2,669132E+23
2888	7,536594E+22	7,536552E+22	5,808988E+22	5,809120E+22	1,507315E+23	1,161811E+23	2,669125E+23
2889	7,536420E+22	7,536427E+22	5,809078E+22	5,809086E+22	1,507285E+23	1,161816E+23	2,669101E+23
2890	7,536522E+22	7,536711E+22	5,809146E+22	5,809173E+22	1,507323E+23	1,161832E+23	2,669155E+23
2891	7,536614E+22	7,536365E+22	5,809037E+22	5,809062E+22	1,507298E+23	1,161810E+23	2,669108E+23
2892	7,536473E+22	7,536515E+22	5,809127E+22	5,808969E+22	1,507299E+23	1,161810E+23	2,669108E+23
2893	7,536669E+22	7,536682E+22	5,809001E+22	5,809069E+22	1,507335E+23	1,161807E+23	2,669142E+23
2894	7,536540E+22	7,536370E+22	5,808933E+22	5,808928E+22	1,507291E+23	1,161786E+23	2,669077E+23
2895	7,536378E+22	7,536700E+22	5,809027E+22	5,808902E+22	1,507308E+23	1,161793E+23	2,669101E+23
2896	7,536564E+22	7,536618E+22	5,808843E+22	5,808918E+22	1,507318E+23	1,161776E+23	2,669094E+23
2897	7,536452E+22	7,536342E+22	5,808863E+22	5,808816E+22	1,507279E+23	1,161768E+23	2,669047E+23
2898	7,536497E+22	7,536637E+22	5,808939E+22	5,808880E+22	1,507313E+23	1,161782E+23	2,669095E+23
2899	7,536626E+22	7,536404E+22	5,808771E+22	5,808847E+22	1,507303E+23	1,161762E+23	2,669065E+23
2900	7,536421E+22	7,536482E+22	5,808853E+22	5,808812E+22	1,507290E+23	1,161766E+23	2,669057E+23
2901	7,536592E+22	7,536716E+22	5,808847E+22	5,808973E+22	1,507331E+23	1,161782E+23	2,669113E+23
2902	7,536577E+22	7,536357E+22	5,808869E+22	5,808894E+22	1,507293E+23	1,161776E+23	2,669070E+23
2903	7,536409E+22	7,536580E+22	5,809107E+22	5,808911E+22	1,507299E+23	1,161802E+23	2,669101E+23
2904	7,536627E+22	7,536627E+22	5,809023E+22	5,809067E+22	1,507325E+23	1,161809E+23	2,669134E+23
2905	7,536487E+22	7,536335E+22	5,809087E+22	5,809092E+22	1,507282E+23	1,161818E+23	2,669100E+23
2906	7,536385E+22	7,536653E+22	5,809265E+22	5,809222E+22	1,507304E+23	1,161849E+23	2,669152E+23
2907	7,536556E+22	7,536499E+22	5,809144E+22	5,809259E+22	1,507305E+23	1,161840E+23	2,669146E+23
2908	7,536388E+22	7,536393E+22	5,809247E+22	5,809183E+22	1,507278E+23	1,161843E+23	2,669121E+23
2909	7,536559E+22	7,536628E+22	5,809267E+22	5,809289E+22	1,507319E+23	1,161856E+23	2,669174E+23
2910	7,536640E+22	7,536337E+22	5,809166E+22	5,809172E+22	1,507298E+23	1,161834E+23	2,669131E+23
2911	7,536397E+22	7,536512E+22	5,809258E+22	5,809108E+22	1,507291E+23	1,161837E+23	2,669128E+23
2912	7,536566E+22	7,536702E+22	5,809085E+22	5,809191E+22	1,507327E+23	1,161828E+23	2,669154E+23
2913	7,536467E+22	7,536378E+22	5,809027E+22	5,809075E+22	1,507284E+23	1,161810E+23	2,669095E+23
2914	7,536329E+22	7,536583E+22	5,809182E+22	5,809034E+22	1,507291E+23	1,161822E+23	2,669113E+23
2915	7,536588E+22	7,536513E+22	5,808992E+22	5,809012E+22	1,507310E+23	1,161800E+23	2,669111E+23
2916	7,536443E+22	7,536315E+22	5,808984E+22	5,808918E+22	1,507276E+23	1,161790E+23	2,669066E+23
2917	7,536495E+22	7,536596E+22	5,809012E+22	5,809039E+22	1,507309E+23	1,161805E+23	2,669114E+23
2918	7,536605E+22	7,536426E+22	5,808885E+22	5,808988E+22	1,507303E+23	1,161787E+23	2,669090E+23
2919	7,536348E+22	7,536467E+22	5,809022E+22	5,808942E+22	1,507281E+23	1,161796E+23	2,669078E+23
2920	7,536541E+22	7,536680E+22	5,809012E+22	5,809070E+22	1,507322E+23	1,161808E+23	2,669130E+23
2921	7,536559E+22	7,536345E+22	5,809023E+22	5,809047E+22	1,507290E+23	1,161807E+23	2,669097E+23
2922	7,536347E+22	7,536490E+22	5,809292E+22	5,809104E+22	1,507284E+23	1,161840E+23	2,669123E+23
2923	7,536571E+22	7,536590E+22	5,809185E+22	5,809251E+22	1,507316E+23	1,161844E+23	2,669160E+23
2924	7,536399E+22	7,536346E+22	5,809226E+22	5,809266E+22	1,507275E+23	1,161849E+23	2,669124E+23
2925	7,536370E+22	7,536568E+22	5,809385E+22	5,809396E+22	1,507294E+23	1,161878E+23	2,669172E+23
2926	7,536596E+22	7,536427E+22	5,809297E+22	5,809368E+22	1,507302E+23	1,161867E+23	2,669169E+23
2927	7,536389E+22	7,536331E+22	5,809402E+22	5,809288E+22	1,507272E+23	1,161869E+23	2,669141E+23
2928	7,536533E+22	7,536621E+22	5,809364E+22	5,809379E+22	1,507315E+23	1,161874E+23	2,669190E+23
2929	7,536578E+22	7,536399E+22	5,809242E+22	5,809317E+22	1,507298E+23	1,161856E+23	2,669154E+23

1	14	15	16	17	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							
2930	7,536279E+22	7,536492E+22	5,809400E+22	5,809262E+22	1,507277E+23	1,161866E+23	2,669143E+23
2931	7,536497E+22	7,536656E+22	5,809246E+22	5,809294E+22	1,507315E+23	1,161854E+23	2,669169E+23
2932	7,536417E+22	7,536324E+22	5,809194E+22	5,809172E+22	1,507274E+23	1,161837E+23	2,669111E+23
2933	7,536360E+22	7,536456E+22	5,809297E+22	5,809178E+22	1,507282E+23	1,161847E+23	2,669129E+23
2934	7,536626E+22	7,536441E+22	5,809103E+22	5,809149E+22	1,507307E+23	1,161825E+23	2,669132E+23
2935	7,536397E+22	7,536305E+22	5,809087E+22	5,809075E+22	1,507270E+23	1,161816E+23	2,669086E+23
2936	7,536438E+22	7,536621E+22	5,809076E+22	5,809155E+22	1,507306E+23	1,161823E+23	2,669129E+23
2937	7,536567E+22	7,536449E+22	5,808990E+22	5,809115E+22	1,507302E+23	1,161810E+23	2,669112E+23
2938	7,536307E+22	7,536385E+22	5,809225E+22	5,809065E+22	1,507269E+23	1,161829E+23	2,669098E+23
2939	7,536523E+22	7,536616E+22	5,809206E+22	5,809179E+22	1,507314E+23	1,161839E+23	2,669152E+23
2940	7,536491E+22	7,536338E+22	5,809202E+22	5,809201E+22	1,507283E+23	1,161840E+23	2,669123E+23
2941	7,536292E+22	7,536432E+22	5,809415E+22	5,809325E+22	1,507272E+23	1,161874E+23	2,669146E+23
2942	7,536521E+22	7,536552E+22	5,809333E+22	5,809437E+22	1,507307E+23	1,161877E+23	2,669184E+23
2943	7,536342E+22	7,536291E+22	5,809396E+22	5,809422E+22	1,507263E+23	1,161882E+23	2,669145E+23
2944	7,536367E+22	7,536508E+22	5,809510E+22	5,809500E+22	1,507288E+23	1,161901E+23	2,669188E+23
2945	7,536621E+22	7,536423E+22	5,809410E+22	5,809500E+22	1,507304E+23	1,161891E+23	2,669195E+23
2946	7,536359E+22	7,536286E+22	5,809557E+22	5,809435E+22	1,507265E+23	1,161899E+23	2,669164E+23
2947	7,536471E+22	7,536632E+22	5,809498E+22	5,809503E+22	1,507310E+23	1,161900E+23	2,669210E+23
2948	7,536480E+22	7,536435E+22	5,809381E+22	5,809440E+22	1,507292E+23	1,161882E+23	2,669174E+23
2949	7,536247E+22	7,536383E+22	5,809528E+22	5,809407E+22	1,507263E+23	1,161894E+23	2,669157E+23
2950	7,536516E+22	7,536550E+22	5,809398E+22	5,809395E+22	1,507307E+23	1,161879E+23	2,669186E+23
2951	7,536412E+22	7,536240E+22	5,809313E+22	5,809285E+22	1,507265E+23	1,161860E+23	2,669125E+23
2952	7,536337E+22	7,536421E+22	5,809345E+22	5,809289E+22	1,507276E+23	1,161863E+23	2,669139E+23
2953	7,536586E+22	7,536499E+22	5,809146E+22	5,809293E+22	1,507309E+23	1,161844E+23	2,669152E+23
2954	7,536315E+22	7,536290E+22	5,809218E+22	5,809210E+22	1,507260E+23	1,161843E+23	2,669103E+23
2955	7,536385E+22	7,536604E+22	5,809252E+22	5,809238E+22	1,507299E+23	1,161849E+23	2,669148E+23
2956	7,536522E+22	7,536441E+22	5,809191E+22	5,809211E+22	1,507296E+23	1,161840E+23	2,669137E+23
2957	7,536299E+22	7,536277E+22	5,809400E+22	5,809243E+22	1,507258E+23	1,161864E+23	2,669122E+23
2958	7,536497E+22	7,536552E+22	5,809382E+22	5,809366E+22	1,507305E+23	1,161875E+23	2,669180E+23
2959	7,536403E+22	7,536306E+22	5,809350E+22	5,809419E+22	1,507271E+23	1,161877E+23	2,669148E+23
2960	7,536232E+22	7,536394E+22	5,809509E+22	5,809502E+22	1,507263E+23	1,161901E+23	2,669164E+23
2961	7,536526E+22	7,536524E+22	5,809446E+22	5,809591E+22	1,507305E+23	1,161904E+23	2,669209E+23
2962	7,536358E+22	7,536200E+22	5,809574E+22	5,809542E+22	1,507256E+23	1,161912E+23	2,669167E+23
2963	7,536390E+22	7,536483E+22	5,809662E+22	5,809580E+22	1,507287E+23	1,161924E+23	2,669212E+23
2964	7,536572E+22	7,536472E+22	5,809560E+22	5,809609E+22	1,507304E+23	1,161917E+23	2,669221E+23
2965	7,536295E+22	7,536273E+22	5,809681E+22	5,809610E+22	1,507257E+23	1,161929E+23	2,669186E+23
2966	7,536395E+22	7,536601E+22	5,809654E+22	5,809638E+22	1,507300E+23	1,161929E+23	2,669229E+23
2967	7,536392E+22	7,536367E+22	5,809552E+22	5,809573E+22	1,507276E+23	1,161912E+23	2,669188E+23
2968	7,536225E+22	7,536289E+22	5,809621E+22	5,809510E+22	1,507251E+23	1,161913E+23	2,669165E+23
2969	7,536528E+22	7,536498E+22	5,809466E+22	5,809530E+22	1,507303E+23	1,161900E+23	2,669202E+23
2970	7,536385E+22	7,536185E+22	5,809419E+22	5,809429E+22	1,507257E+23	1,161885E+23	2,669142E+23
2971	7,536299E+22	7,536446E+22	5,809420E+22	5,809396E+22	1,507274E+23	1,161882E+23	2,669156E+23
2972	7,536522E+22	7,536551E+22	5,809270E+22	5,809389E+22	1,507307E+23	1,161866E+23	2,669173E+23
2973	7,536307E+22	7,536213E+22	5,809373E+22	5,809333E+22	1,507252E+23	1,161871E+23	2,669123E+23
2974	7,536388E+22	7,536518E+22	5,809450E+22	5,809333E+22	1,507291E+23	1,161878E+23	2,669169E+23
2975	7,536473E+22	7,536383E+22	5,809376E+22	5,809361E+22	1,507286E+23	1,161874E+23	2,669159E+23
2976	7,536237E+22	7,536233E+22	5,809502E+22	5,809418E+22	1,507247E+23	1,161892E+23	2,669139E+23
2977	7,536433E+22	7,536562E+22	5,809475E+22	5,809574E+22	1,507300E+23	1,161905E+23	2,669204E+23
2978	7,536334E+22	7,536250E+22	5,809512E+22	5,809602E+22	1,507258E+23	1,161911E+23	2,669170E+23

1	14	15	16	17	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	7,536220E+22	7,536352E+22	5,809669E+22	5,809615E+22	1,507257E+23	1,161928E+23	2,669186E+23
2980	7,536535E+22	7,536519E+22	5,809626E+22	5,809694E+22	1,507305E+23	1,161932E+23	2,669237E+23
2981	7,536386E+22	7,536127E+22	5,809730E+22	5,809700E+22	1,507251E+23	1,161943E+23	2,669194E+23
2982	7,536367E+22	7,536470E+22	5,809830E+22	5,809722E+22	1,507284E+23	1,161955E+23	2,669239E+23
2983	7,536467E+22	7,536493E+22	5,809702E+22	5,809775E+22	1,507296E+23	1,161948E+23	2,669244E+23
2984	7,536199E+22	7,536230E+22	5,809776E+22	5,809752E+22	1,507243E+23	1,161953E+23	2,669196E+23
2985	7,536361E+22	7,536545E+22	5,809763E+22	5,809765E+22	1,507291E+23	1,161953E+23	2,669243E+23
2986	7,536378E+22	7,536243E+22	5,809694E+22	5,809689E+22	1,507262E+23	1,161938E+23	2,669200E+23
2987	7,536232E+22	7,536241E+22	5,809709E+22	5,809596E+22	1,507247E+23	1,161931E+23	2,669178E+23
2988	7,536499E+22	7,536534E+22	5,809554E+22	5,809630E+22	1,507303E+23	1,161918E+23	2,669222E+23
2989	7,536350E+22	7,536172E+22	5,809507E+22	5,809569E+22	1,507252E+23	1,161908E+23	2,669160E+23
2990	7,536260E+22	7,536434E+22	5,809574E+22	5,809482E+22	1,507269E+23	1,161906E+23	2,669175E+23
2991	7,536458E+22	7,536519E+22	5,809459E+22	5,809490E+22	1,507298E+23	1,161895E+23	2,669193E+23
2992	7,536276E+22	7,536140E+22	5,809513E+22	5,809456E+22	1,507242E+23	1,161897E+23	2,669139E+23
2993	7,536364E+22	7,536476E+22	5,809579E+22	5,809508E+22	1,507284E+23	1,161909E+23	2,669193E+23
2994	7,536402E+22	7,536321E+22	5,809533E+22	5,809572E+22	1,507272E+23	1,161911E+23	2,669183E+23
2995	7,536177E+22	7,536233E+22	5,809607E+22	5,809591E+22	1,507241E+23	1,161920E+23	2,669161E+23
2996	7,536395E+22	7,536561E+22	5,809623E+22	5,809721E+22	1,507296E+23	1,161934E+23	2,669230E+23
2997	7,536367E+22	7,536160E+22	5,809675E+22	5,809749E+22	1,507253E+23	1,161942E+23	2,669195E+23
2998	7,536274E+22	7,536287E+22	5,809846E+22	5,809709E+22	1,507256E+23	1,161955E+23	2,669212E+23
2999	7,536500E+22	7,536509E+22	5,809799E+22	5,809826E+22	1,507301E+23	1,161963E+23	2,669263E+23