

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-3000	7,369882E+22	7,369703E+22	5,177974E+22	5,178040E+22	1,473959E+23	1,035601E+23	2,509560E+23
-2999	7,369448E+22	7,369762E+22	5,178174E+22	5,178065E+22	1,473921E+23	1,035624E+23	2,509545E+23
-2998	7,369711E+22	7,369761E+22	5,178178E+22	5,178308E+22	1,473947E+23	1,035649E+23	2,509596E+23
-2997	7,369707E+22	7,369638E+22	5,178240E+22	5,178125E+22	1,473934E+23	1,035636E+23	2,509571E+23
-2996	7,369460E+22	7,369594E+22	5,178425E+22	5,178319E+22	1,473905E+23	1,035674E+23	2,509580E+23
-2995	7,369803E+22	7,369600E+22	5,178332E+22	5,178463E+22	1,473940E+23	1,035680E+23	2,509620E+23
-2994	7,369536E+22	7,369613E+22	5,178390E+22	5,178307E+22	1,473915E+23	1,035670E+23	2,509585E+23
-2993	7,369531E+22	7,369629E+22	5,178424E+22	5,178534E+22	1,473916E+23	1,035696E+23	2,509612E+23
-2992	7,369824E+22	7,369621E+22	5,178306E+22	5,178419E+22	1,473944E+23	1,035673E+23	2,509617E+23
-2991	7,369457E+22	7,369636E+22	5,178446E+22	5,178256E+22	1,473909E+23	1,035670E+23	2,509580E+23
-2990	7,369687E+22	7,369685E+22	5,178384E+22	5,178420E+22	1,473937E+23	1,035680E+23	2,509618E+23
-2989	7,369757E+22	7,369655E+22	5,178278E+22	5,178195E+22	1,473941E+23	1,035647E+23	2,509589E+23
-2988	7,369392E+22	7,369660E+22	5,178340E+22	5,178249E+22	1,473905E+23	1,035659E+23	2,509564E+23
-2987	7,369722E+22	7,369681E+22	5,178186E+22	5,178342E+22	1,473940E+23	1,035653E+23	2,509593E+23
-2986	7,369583E+22	7,369640E+22	5,178165E+22	5,178053E+22	1,473922E+23	1,035622E+23	2,509544E+23
-2985	7,369542E+22	7,369611E+22	5,178181E+22	5,178175E+22	1,473915E+23	1,035636E+23	2,509551E+23
-2984	7,369918E+22	7,369622E+22	5,178035E+22	5,178143E+22	1,473954E+23	1,035618E+23	2,509572E+23
-2983	7,369548E+22	7,369648E+22	5,178142E+22	5,178005E+22	1,473920E+23	1,035615E+23	2,509534E+23
-2982	7,369624E+22	7,369734E+22	5,178148E+22	5,178249E+22	1,473936E+23	1,035640E+23	2,509576E+23
-2981	7,369788E+22	7,369710E+22	5,178116E+22	5,178151E+22	1,473950E+23	1,035627E+23	2,509576E+23
-2980	7,369399E+22	7,369637E+22	5,178316E+22	5,178193E+22	1,473904E+23	1,035651E+23	2,509555E+23
-2979	7,369701E+22	7,369633E+22	5,178342E+22	5,178406E+22	1,473933E+23	1,035675E+23	2,509608E+23
-2978	7,369660E+22	7,369581E+22	5,178388E+22	5,178268E+22	1,473924E+23	1,035666E+23	2,509590E+23
-2977	7,369436E+22	7,369556E+22	5,178487E+22	5,178469E+22	1,473899E+23	1,035696E+23	2,509595E+23
-2976	7,369776E+22	7,369610E+22	5,178391E+22	5,178602E+22	1,473939E+23	1,035699E+23	2,509638E+23
-2975	7,369470E+22	7,369579E+22	5,178503E+22	5,178432E+22	1,473905E+23	1,035694E+23	2,509598E+23
-2974	7,369480E+22	7,369635E+22	5,178538E+22	5,178582E+22	1,473912E+23	1,035712E+23	2,509624E+23
-2973	7,369810E+22	7,369610E+22	5,178459E+22	5,178473E+22	1,473942E+23	1,035693E+23	2,509635E+23
-2972	7,369424E+22	7,369538E+22	5,178559E+22	5,178369E+22	1,473896E+23	1,035693E+23	2,509589E+23
-2971	7,369607E+22	7,369625E+22	5,178484E+22	5,178534E+22	1,473923E+23	1,035702E+23	2,509625E+23
-2970	7,369649E+22	7,369634E+22	5,178364E+22	5,178334E+22	1,473928E+23	1,035670E+23	2,509598E+23
-2969	7,369359E+22	7,369575E+22	5,178369E+22	5,178338E+22	1,473893E+23	1,035671E+23	2,509564E+23
-2968	7,369753E+22	7,369614E+22	5,178236E+22	5,178392E+22	1,473937E+23	1,035663E+23	2,509599E+23
-2967	7,369599E+22	7,369546E+22	5,178261E+22	5,178119E+22	1,473914E+23	1,035638E+23	2,509553E+23
-2966	7,369514E+22	7,369629E+22	5,178258E+22	5,178228E+22	1,473914E+23	1,035649E+23	2,509563E+23
-2965	7,369866E+22	7,369682E+22	5,178144E+22	5,178243E+22	1,473955E+23	1,035639E+23	2,509593E+23
-2964	7,369466E+22	7,369608E+22	5,178248E+22	5,178155E+22	1,473907E+23	1,035640E+23	2,509548E+23
-2963	7,369540E+22	7,369680E+22	5,178302E+22	5,178357E+22	1,473922E+23	1,035666E+23	2,509588E+23
-2962	7,369714E+22	7,369653E+22	5,178292E+22	5,178271E+22	1,473937E+23	1,035656E+23	2,509593E+23
-2961	7,369401E+22	7,369519E+22	5,178435E+22	5,178315E+22	1,473892E+23	1,035675E+23	2,509567E+23
-2960	7,369702E+22	7,369568E+22	5,178438E+22	5,178549E+22	1,473927E+23	1,035699E+23	2,509626E+23
-2959	7,369581E+22	7,369521E+22	5,178491E+22	5,178452E+22	1,473910E+23	1,035694E+23	2,509604E+23
-2958	7,369350E+22	7,369579E+22	5,178560E+22	5,178595E+22	1,473893E+23	1,035715E+23	2,509608E+23
-2957	7,369740E+22	7,369617E+22	5,178511E+22	5,178690E+22	1,473936E+23	1,035720E+23	2,509656E+23
-2956	7,369464E+22	7,369485E+22	5,178628E+22	5,178517E+22	1,473895E+23	1,035714E+23	2,509609E+23
-2955	7,369483E+22	7,369563E+22	5,178687E+22	5,178628E+22	1,473905E+23	1,035731E+23	2,509636E+23
-2954	7,369744E+22	7,369597E+22	5,178591E+22	5,178568E+22	1,473934E+23	1,035716E+23	2,509650E+23
-2953	7,369373E+22	7,369502E+22	5,178614E+22	5,178491E+22	1,473888E+23	1,035711E+23	2,509598E+23
-2952	7,369553E+22	7,369596E+22	5,178530E+22	5,178641E+22	1,473915E+23	1,035717E+23	2,509632E+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							
-2951	7,369567E+22	7,369554E+22	5,178454E+22	5,178443E+22	1,473912E+23	1,035690E+23	2,509602E+23
-2950	7,369332E+22	7,369545E+22	5,178441E+22	5,178378E+22	1,473888E+23	1,035682E+23	2,509570E+23
-2949	7,369774E+22	7,369580E+22	5,178341E+22	5,178445E+22	1,473935E+23	1,035679E+23	2,509614E+23
-2948	7,369584E+22	7,369473E+22	5,178341E+22	5,178235E+22	1,473906E+23	1,035658E+23	2,509563E+23
-2947	7,369449E+22	7,369608E+22	5,178354E+22	5,178329E+22	1,473906E+23	1,035668E+23	2,509574E+23
-2946	7,369753E+22	7,369694E+22	5,178264E+22	5,178370E+22	1,473945E+23	1,035663E+23	2,509608E+23
-2945	7,369424E+22	7,369538E+22	5,178344E+22	5,178267E+22	1,473896E+23	1,035661E+23	2,509557E+23
-2944	7,369531E+22	7,369602E+22	5,178423E+22	5,178448E+22	1,473913E+23	1,035687E+23	2,509600E+23
-2943	7,369676E+22	7,369550E+22	5,178444E+22	5,178411E+22	1,473923E+23	1,035686E+23	2,509608E+23
-2942	7,369349E+22	7,369507E+22	5,178535E+22	5,178436E+22	1,473886E+23	1,035697E+23	2,509583E+23
-2941	7,369661E+22	7,369582E+22	5,178552E+22	5,178699E+22	1,473924E+23	1,035725E+23	2,509649E+23
-2940	7,369532E+22	7,369462E+22	5,178594E+22	5,178613E+22	1,473899E+23	1,035721E+23	2,509620E+23
-2939	7,369309E+22	7,369533E+22	5,178705E+22	5,178674E+22	1,473884E+23	1,035738E+23	2,509622E+23
-2938	7,369708E+22	7,369590E+22	5,178682E+22	5,178765E+22	1,473930E+23	1,035745E+23	2,509675E+23
-2937	7,369475E+22	7,369397E+22	5,178739E+22	5,178599E+22	1,473887E+23	1,035734E+23	2,509621E+23
-2936	7,369440E+22	7,369526E+22	5,178775E+22	5,178732E+22	1,473897E+23	1,035751E+23	2,509647E+23
-2935	7,369623E+22	7,369551E+22	5,178677E+22	5,178726E+22	1,473917E+23	1,035740E+23	2,509658E+23
-2934	7,369261E+22	7,369490E+22	5,178660E+22	5,178591E+22	1,473875E+23	1,035725E+23	2,509600E+23
-2933	7,369524E+22	7,369558E+22	5,178615E+22	5,178715E+22	1,473908E+23	1,035733E+23	2,509641E+23
-2932	7,369580E+22	7,369431E+22	5,178533E+22	5,178517E+22	1,473901E+23	1,035705E+23	2,509606E+23
-2931	7,369355E+22	7,369483E+22	5,178538E+22	5,178414E+22	1,473884E+23	1,035695E+23	2,509579E+23
-2930	7,369738E+22	7,369604E+22	5,178440E+22	5,178527E+22	1,473934E+23	1,035697E+23	2,509631E+23
-2929	7,369551E+22	7,369472E+22	5,178396E+22	5,178347E+22	1,473902E+23	1,035674E+23	2,509577E+23
-2928	7,369389E+22	7,369612E+22	5,178445E+22	5,178431E+22	1,473900E+23	1,035688E+23	2,509588E+23
-2927	7,369652E+22	7,369636E+22	5,178415E+22	5,178494E+22	1,473929E+23	1,035691E+23	2,509620E+23
-2926	7,369370E+22	7,369490E+22	5,178483E+22	5,178354E+22	1,473886E+23	1,035684E+23	2,509570E+23
-2925	7,369524E+22	7,369533E+22	5,178578E+22	5,178570E+22	1,473906E+23	1,035715E+23	2,509621E+23
-2924	7,369629E+22	7,369443E+22	5,178555E+22	5,178597E+22	1,473907E+23	1,035715E+23	2,509622E+23
-2923	7,369295E+22	7,369463E+22	5,178638E+22	5,178583E+22	1,473876E+23	1,035722E+23	2,509598E+23
-2922	7,369588E+22	7,369571E+22	5,178667E+22	5,178826E+22	1,473916E+23	1,035749E+23	2,509665E+23
-2921	7,369536E+22	7,369397E+22	5,178688E+22	5,178705E+22	1,473893E+23	1,035739E+23	2,509633E+23
-2920	7,369330E+22	7,369479E+22	5,178827E+22	5,178726E+22	1,473881E+23	1,035755E+23	2,509636E+23
-2919	7,369644E+22	7,369533E+22	5,178833E+22	5,178870E+22	1,473918E+23	1,035770E+23	2,509688E+23
-2918	7,369381E+22	7,369419E+22	5,178835E+22	5,178704E+22	1,473880E+23	1,035754E+23	2,509634E+23
-2917	7,369354E+22	7,369529E+22	5,178873E+22	5,178868E+22	1,473888E+23	1,035774E+23	2,509662E+23
-2916	7,369533E+22	7,369464E+22	5,178755E+22	5,178875E+22	1,473900E+23	1,035763E+23	2,509663E+23
-2915	7,369232E+22	7,369408E+22	5,178754E+22	5,178652E+22	1,473864E+23	1,035741E+23	2,509605E+23
-2914	7,369528E+22	7,369499E+22	5,178724E+22	5,178767E+22	1,473903E+23	1,035749E+23	2,509652E+23
-2913	7,369629E+22	7,369355E+22	5,178590E+22	5,178585E+22	1,473898E+23	1,035718E+23	2,509616E+23
-2912	7,369343E+22	7,369479E+22	5,178596E+22	5,178490E+22	1,473882E+23	1,035709E+23	2,509591E+23
-2911	7,369625E+22	7,369606E+22	5,178534E+22	5,178655E+22	1,473923E+23	1,035719E+23	2,509642E+23
-2910	7,369445E+22	7,369490E+22	5,178483E+22	5,178432E+22	1,473893E+23	1,035692E+23	2,509585E+23
-2909	7,369345E+22	7,369573E+22	5,178588E+22	5,178522E+22	1,473892E+23	1,035711E+23	2,509603E+23
-2908	7,369623E+22	7,369502E+22	5,178556E+22	5,178619E+22	1,473912E+23	1,035717E+23	2,509630E+23
-2907	7,369350E+22	7,369398E+22	5,178619E+22	5,178458E+22	1,473875E+23	1,035708E+23	2,509583E+23
-2906	7,369478E+22	7,369515E+22	5,178701E+22	5,178718E+22	1,473899E+23	1,035742E+23	2,509641E+23
-2905	7,369608E+22	7,369396E+22	5,178620E+22	5,178751E+22	1,473900E+23	1,035737E+23	2,509638E+23
-2904	7,369260E+22	7,369449E+22	5,178733E+22	5,178690E+22	1,473871E+23	1,035742E+23	2,509613E+23
-2903	7,369520E+22	7,369538E+22	5,178821E+22	5,178936E+22	1,473906E+23	1,035776E+23	2,509681E+23

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	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2902	7,369493E+22	7,369381E+22	5,178829E+22	5,178772E+22	1,473887E+23	1,035760E+23	2,509647E+23
-2901	7,369299E+22	7,369452E+22	5,178983E+22	5,178840E+22	1,473875E+23	1,035782E+23	2,509657E+23
-2900	7,369539E+22	7,369453E+22	5,178943E+22	5,179043E+22	1,473899E+23	1,035799E+23	2,509698E+23
-2899	7,369280E+22	7,369364E+22	5,178927E+22	5,178837E+22	1,473864E+23	1,035776E+23	2,509641E+23
-2898	7,369282E+22	7,369479E+22	5,178966E+22	5,178976E+22	1,473876E+23	1,035794E+23	2,509670E+23
-2897	7,369559E+22	7,369356E+22	5,178807E+22	5,178946E+22	1,473891E+23	1,035775E+23	2,509667E+23
-2896	7,369293E+22	7,369346E+22	5,178820E+22	5,178677E+22	1,473864E+23	1,035750E+23	2,509614E+23
-2895	7,369509E+22	7,369478E+22	5,178814E+22	5,178837E+22	1,473899E+23	1,035765E+23	2,509664E+23
-2894	7,369570E+22	7,369420E+22	5,178653E+22	5,178651E+22	1,473899E+23	1,035730E+23	2,509629E+23
-2893	7,369280E+22	7,369523E+22	5,178699E+22	5,178595E+22	1,473880E+23	1,035729E+23	2,509610E+23
-2892	7,369507E+22	7,369550E+22	5,178657E+22	5,178784E+22	1,473906E+23	1,035744E+23	2,509650E+23
-2891	7,369388E+22	7,369415E+22	5,178633E+22	5,178519E+22	1,473880E+23	1,035715E+23	2,509595E+23
-2890	7,369314E+22	7,369477E+22	5,178742E+22	5,178624E+22	1,473879E+23	1,035737E+23	2,509616E+23
-2889	7,369626E+22	7,369384E+22	5,178640E+22	5,178763E+22	1,473901E+23	1,035740E+23	2,509641E+23
-2888	7,369331E+22	7,369352E+22	5,178682E+22	5,178598E+22	1,473868E+23	1,035728E+23	2,509596E+23
-2887	7,369381E+22	7,369492E+22	5,178788E+22	5,178881E+22	1,473887E+23	1,035767E+23	2,509654E+23
-2886	7,369540E+22	7,369413E+22	5,178712E+22	5,178844E+22	1,473895E+23	1,035756E+23	2,509651E+23
-2885	7,369256E+22	7,369428E+22	5,178886E+22	5,178773E+22	1,473868E+23	1,035766E+23	2,509634E+23
-2884	7,369475E+22	7,369448E+22	5,178984E+22	5,179045E+22	1,473892E+23	1,035803E+23	2,509695E+23
-2883	7,369443E+22	7,369336E+22	5,178982E+22	5,178876E+22	1,473878E+23	1,035786E+23	2,509664E+23
-2882	7,369210E+22	7,369434E+22	5,179117E+22	5,178986E+22	1,473864E+23	1,035810E+23	2,509675E+23
-2881	7,369481E+22	7,369383E+22	5,179011E+22	5,179198E+22	1,473886E+23	1,035821E+23	2,509707E+23
-2880	7,369253E+22	7,369302E+22	5,179002E+22	5,178930E+22	1,473856E+23	1,035793E+23	2,509649E+23
-2879	7,369251E+22	7,369412E+22	5,179071E+22	5,179060E+22	1,473866E+23	1,035813E+23	2,509679E+23
-2878	7,369569E+22	7,369331E+22	5,178889E+22	5,178978E+22	1,473890E+23	1,035787E+23	2,509677E+23
-2877	7,369305E+22	7,369351E+22	5,178916E+22	5,178755E+22	1,473866E+23	1,035767E+23	2,509633E+23
-2876	7,369416E+22	7,369459E+22	5,178893E+22	5,178963E+22	1,473888E+23	1,035786E+23	2,509673E+23
-2875	7,369464E+22	7,369413E+22	5,178741E+22	5,178744E+22	1,473888E+23	1,035749E+23	2,509636E+23
-2874	7,369196E+22	7,369486E+22	5,178823E+22	5,178692E+22	1,473868E+23	1,035751E+23	2,509620E+23
-2873	7,369494E+22	7,369422E+22	5,178747E+22	5,178874E+22	1,473892E+23	1,035762E+23	2,509654E+23
-2872	7,369400E+22	7,369312E+22	5,178732E+22	5,178597E+22	1,473871E+23	1,035733E+23	2,509604E+23
-2871	7,369271E+22	7,369424E+22	5,178842E+22	5,178763E+22	1,473869E+23	1,035761E+23	2,509630E+23
-2870	7,369570E+22	7,369400E+22	5,178705E+22	5,178883E+22	1,473897E+23	1,035759E+23	2,509656E+23
-2869	7,369300E+22	7,369377E+22	5,178782E+22	5,178733E+22	1,473868E+23	1,035751E+23	2,509619E+23
-2868	7,369302E+22	7,369446E+22	5,178920E+22	5,179006E+22	1,473875E+23	1,035793E+23	2,509667E+23
-2867	7,369504E+22	7,369368E+22	5,178883E+22	5,178919E+22	1,473887E+23	1,035780E+23	2,509667E+23
-2866	7,369230E+22	7,369369E+22	5,179081E+22	5,178878E+22	1,473860E+23	1,035796E+23	2,509656E+23
-2865	7,369430E+22	7,369356E+22	5,179106E+22	5,179196E+22	1,473879E+23	1,035830E+23	2,509709E+23
-2864	7,369376E+22	7,369285E+22	5,179077E+22	5,179030E+22	1,473866E+23	1,035811E+23	2,509677E+23
-2863	7,369100E+22	7,369380E+22	5,179208E+22	5,179150E+22	1,473848E+23	1,035836E+23	2,509684E+23
-2862	7,369432E+22	7,369348E+22	5,179081E+22	5,179280E+22	1,473878E+23	1,035836E+23	2,509714E+23
-2861	7,369296E+22	7,369258E+22	5,179097E+22	5,178993E+22	1,473855E+23	1,035809E+23	2,509665E+23
-2860	7,369238E+22	7,369340E+22	5,179166E+22	5,179133E+22	1,473858E+23	1,035830E+23	2,509688E+23
-2859	7,369543E+22	7,369340E+22	5,178982E+22	5,179041E+22	1,473888E+23	1,035802E+23	2,509691E+23
-2858	7,369235E+22	7,369374E+22	5,179016E+22	5,178851E+22	1,473861E+23	1,035787E+23	2,509648E+23
-2857	7,369332E+22	7,369418E+22	5,178960E+22	5,179074E+22	1,473875E+23	1,035803E+23	2,509678E+23
-2856	7,369414E+22	7,369355E+22	5,178835E+22	5,178822E+22	1,473877E+23	1,035766E+23	2,509643E+23
-2855	7,369138E+22	7,369390E+22	5,178946E+22	5,178792E+22	1,473853E+23	1,035774E+23	2,509627E+23
-2854	7,369476E+22	7,369354E+22	5,178842E+22	5,178955E+22	1,473883E+23	1,035780E+23	2,509663E+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	7,369405E+22	7,369275E+22	5,178819E+22	5,178731E+22	1,473868E+23	1,035755E+23	2,509623E+23
-2852	7,369186E+22	7,369378E+22	5,178915E+22	5,178924E+22	1,473856E+23	1,035784E+23	2,509640E+23
-2851	7,369506E+22	7,369390E+22	5,178802E+22	5,178991E+22	1,473890E+23	1,035779E+23	2,509669E+23
-2850	7,369266E+22	7,369350E+22	5,178934E+22	5,178825E+22	1,473862E+23	1,035776E+23	2,509638E+23
-2849	7,369300E+22	7,369356E+22	5,179059E+22	5,179095E+22	1,473866E+23	1,035815E+23	2,509681E+23
-2848	7,369502E+22	7,369302E+22	5,179036E+22	5,179012E+22	1,473880E+23	1,035805E+23	2,509685E+23
-2847	7,369146E+22	7,369335E+22	5,179230E+22	5,179046E+22	1,473848E+23	1,035828E+23	2,509676E+23
-2846	7,369332E+22	7,369355E+22	5,179204E+22	5,179342E+22	1,473869E+23	1,035855E+23	2,509723E+23
-2845	7,369323E+22	7,369271E+22	5,179180E+22	5,179189E+22	1,473859E+23	1,035837E+23	2,509696E+23
-2844	7,369034E+22	7,369302E+22	5,179312E+22	5,179278E+22	1,473834E+23	1,035859E+23	2,509693E+23
-2843	7,369428E+22	7,369281E+22	5,179194E+22	5,179332E+22	1,473871E+23	1,035853E+23	2,509723E+23
-2842	7,369311E+22	7,369216E+22	5,179223E+22	5,179062E+22	1,473853E+23	1,035828E+23	2,509681E+23
-2841	7,369218E+22	7,369287E+22	5,179225E+22	5,179227E+22	1,473850E+23	1,035845E+23	2,509696E+23
-2840	7,369474E+22	7,369325E+22	5,179043E+22	5,179130E+22	1,473880E+23	1,035817E+23	2,509697E+23
-2839	7,369124E+22	7,369349E+22	5,179103E+22	5,178968E+22	1,473847E+23	1,035807E+23	2,509654E+23
-2838	7,369263E+22	7,369370E+22	5,179042E+22	5,179126E+22	1,473863E+23	1,035817E+23	2,509680E+23
-2837	7,369431E+22	7,369288E+22	5,178939E+22	5,178900E+22	1,473872E+23	1,035784E+23	2,509656E+23
-2836	7,369108E+22	7,369292E+22	5,179041E+22	5,178900E+22	1,473840E+23	1,035794E+23	2,509634E+23
-2835	7,369445E+22	7,369331E+22	5,178928E+22	5,179056E+22	1,473878E+23	1,035798E+23	2,509676E+23
-2834	7,369366E+22	7,369285E+22	5,178923E+22	5,178860E+22	1,473865E+23	1,035778E+23	2,509643E+23
-2833	7,369141E+22	7,369338E+22	5,179002E+22	5,179044E+22	1,473848E+23	1,035805E+23	2,509653E+23
-2832	7,369483E+22	7,369351E+22	5,178941E+22	5,179072E+22	1,473883E+23	1,035801E+23	2,509685E+23
-2831	7,369222E+22	7,369292E+22	5,179112E+22	5,178941E+22	1,473851E+23	1,035805E+23	2,509657E+23
-2830	7,369248E+22	7,369314E+22	5,179210E+22	5,179206E+22	1,473856E+23	1,035842E+23	2,509698E+23
-2829	7,369454E+22	7,369282E+22	5,179163E+22	5,179194E+22	1,473874E+23	1,035836E+23	2,509709E+23
-2828	7,369010E+22	7,369264E+22	5,179330E+22	5,179244E+22	1,473827E+23	1,035857E+23	2,509685E+23
-2827	7,369251E+22	7,369300E+22	5,179305E+22	5,179470E+22	1,473855E+23	1,035877E+23	2,509733E+23
-2826	7,369317E+22	7,369196E+22	5,179302E+22	5,179276E+22	1,473851E+23	1,035858E+23	2,509709E+23
-2825	7,369062E+22	7,369194E+22	5,179395E+22	5,179343E+22	1,473826E+23	1,035874E+23	2,509699E+23
-2824	7,369458E+22	7,369235E+22	5,179288E+22	5,179381E+22	1,473869E+23	1,035867E+23	2,509736E+23
-2823	7,369249E+22	7,369227E+22	5,179316E+22	5,179166E+22	1,473848E+23	1,035848E+23	2,509696E+23
-2822	7,369127E+22	7,369319E+22	5,179296E+22	5,179304E+22	1,473845E+23	1,035860E+23	2,509705E+23
-2821	7,369415E+22	7,369329E+22	5,179133E+22	5,179230E+22	1,473874E+23	1,035836E+23	2,509711E+23
-2820	7,369034E+22	7,369260E+22	5,179217E+22	5,179067E+22	1,473829E+23	1,035828E+23	2,509658E+23
-2819	7,369238E+22	7,369283E+22	5,179164E+22	5,179187E+22	1,473852E+23	1,035835E+23	2,509687E+23
-2818	7,369431E+22	7,369217E+22	5,179062E+22	5,179004E+22	1,473865E+23	1,035807E+23	2,509671E+23
-2817	7,369082E+22	7,369227E+22	5,179089E+22	5,179038E+22	1,473831E+23	1,035813E+23	2,509643E+23
-2816	7,369406E+22	7,369305E+22	5,178990E+22	5,179169E+22	1,473871E+23	1,035816E+23	2,509687E+23
-2815	7,369298E+22	7,369274E+22	5,179028E+22	5,178985E+22	1,473857E+23	1,035801E+23	2,509659E+23
-2814	7,369109E+22	7,369312E+22	5,179126E+22	5,179102E+22	1,473842E+23	1,035823E+23	2,509665E+23
-2813	7,369488E+22	7,369320E+22	5,179095E+22	5,179171E+22	1,473881E+23	1,035827E+23	2,509707E+23
-2812	7,369149E+22	7,369227E+22	5,179270E+22	5,179096E+22	1,473838E+23	1,035837E+23	2,509674E+23
-2811	7,369153E+22	7,369285E+22	5,179342E+22	5,179350E+22	1,473844E+23	1,035869E+23	2,509713E+23
-2810	7,369371E+22	7,369252E+22	5,179298E+22	5,179364E+22	1,473862E+23	1,035866E+23	2,509728E+23
-2809	7,368962E+22	7,369170E+22	5,179415E+22	5,179386E+22	1,473813E+23	1,035880E+23	2,509693E+23
-2808	7,369254E+22	7,369204E+22	5,179418E+22	5,179544E+22	1,473846E+23	1,035896E+23	2,509742E+23
-2807	7,369320E+22	7,369135E+22	5,179432E+22	5,179365E+22	1,473845E+23	1,035880E+23	2,509725E+23
-2806	7,369054E+22	7,369172E+22	5,179490E+22	5,179402E+22	1,473823E+23	1,035889E+23	2,509712E+23
-2805	7,369420E+22	7,369263E+22	5,179367E+22	5,179496E+22	1,473868E+23	1,035886E+23	2,509755E+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							
-2804	7,369116E+22	7,369205E+22	5,179400E+22	5,179298E+22	1,473832E+23	1,035870E+23	2,509702E+23
-2803	7,369023E+22	7,369287E+22	5,179395E+22	5,179377E+22	1,473831E+23	1,035877E+23	2,509708E+23
-2802	7,369382E+22	7,369260E+22	5,179262E+22	5,179304E+22	1,473864E+23	1,035857E+23	2,509721E+23
-2801	7,369038E+22	7,369133E+22	5,179296E+22	5,179150E+22	1,473817E+23	1,035845E+23	2,509662E+23
-2800	7,369253E+22	7,369205E+22	5,179245E+22	5,179272E+22	1,473846E+23	1,035852E+23	2,509698E+23
-2799	7,369384E+22	7,369213E+22	5,179138E+22	5,179139E+22	1,473860E+23	1,035828E+23	2,509687E+23
-2798	7,369028E+22	7,369249E+22	5,179152E+22	5,179132E+22	1,473828E+23	1,035828E+23	2,509656E+23
-2797	7,369383E+22	7,369328E+22	5,179089E+22	5,179273E+22	1,473871E+23	1,035836E+23	2,509707E+23
-2796	7,369223E+22	7,369214E+22	5,179176E+22	5,179087E+22	1,473844E+23	1,035826E+23	2,509670E+23
-2795	7,369064E+22	7,369254E+22	5,179301E+22	5,179185E+22	1,473832E+23	1,035849E+23	2,509680E+23
-2794	7,369440E+22	7,369260E+22	5,179268E+22	5,179312E+22	1,473870E+23	1,035858E+23	2,509728E+23
-2793	7,369058E+22	7,369134E+22	5,179367E+22	5,179281E+22	1,473819E+23	1,035865E+23	2,509684E+23
-2792	7,369087E+22	7,369201E+22	5,179442E+22	5,179503E+22	1,473829E+23	1,035894E+23	2,509723E+23
-2791	7,369311E+22	7,369182E+22	5,179412E+22	5,179504E+22	1,473849E+23	1,035892E+23	2,509741E+23
-2790	7,368973E+22	7,369108E+22	5,179514E+22	5,179445E+22	1,473808E+23	1,035896E+23	2,509704E+23
-2789	7,369304E+22	7,369181E+22	5,179522E+22	5,179620E+22	1,473849E+23	1,035914E+23	2,509763E+23
-2788	7,369262E+22	7,369118E+22	5,179547E+22	5,179475E+22	1,473838E+23	1,035902E+23	2,509740E+23
-2787	7,368966E+22	7,369207E+22	5,179599E+22	5,179495E+22	1,473817E+23	1,035909E+23	2,509727E+23
-2786	7,369322E+22	7,369275E+22	5,179497E+22	5,179611E+22	1,473860E+23	1,035911E+23	2,509771E+23
-2785	7,369032E+22	7,369129E+22	5,179493E+22	5,179411E+22	1,473816E+23	1,035890E+23	2,509707E+23
-2784	7,369003E+22	7,369171E+22	5,179509E+22	5,179443E+22	1,473817E+23	1,035895E+23	2,509713E+23
-2783	7,369365E+22	7,369173E+22	5,179375E+22	5,179408E+22	1,473854E+23	1,035878E+23	2,509732E+23
-2782	7,369038E+22	7,369085E+22	5,179350E+22	5,179237E+22	1,473812E+23	1,035859E+23	2,509671E+23
-2781	7,369234E+22	7,369218E+22	5,179278E+22	5,179396E+22	1,473845E+23	1,035867E+23	2,509713E+23
-2780	7,369292E+22	7,369200E+22	5,179209E+22	5,179264E+22	1,473849E+23	1,035847E+23	2,509696E+23
-2779	7,368969E+22	7,369231E+22	5,179262E+22	5,179182E+22	1,473820E+23	1,035844E+23	2,509665E+23
-2778	7,369356E+22	7,369286E+22	5,179258E+22	5,179334E+22	1,473864E+23	1,035859E+23	2,509723E+23
-2777	7,369200E+22	7,369119E+22	5,179310E+22	5,179195E+22	1,473832E+23	1,035851E+23	2,509682E+23
-2776	7,369020E+22	7,369172E+22	5,179440E+22	5,179312E+22	1,473819E+23	1,035875E+23	2,509694E+23
-2775	7,369339E+22	7,369234E+22	5,179395E+22	5,179500E+22	1,473857E+23	1,035890E+23	2,509747E+23
-2774	7,368993E+22	7,369093E+22	5,179458E+22	5,179423E+22	1,473809E+23	1,035888E+23	2,509697E+23
-2773	7,369075E+22	7,369169E+22	5,179539E+22	5,179634E+22	1,473824E+23	1,035917E+23	2,509742E+23
-2772	7,369274E+22	7,369107E+22	5,179549E+22	5,179615E+22	1,473838E+23	1,035916E+23	2,509755E+23
-2771	7,368963E+22	7,369075E+22	5,179658E+22	5,179515E+22	1,473804E+23	1,035917E+23	2,509721E+23
-2770	7,369265E+22	7,369185E+22	5,179668E+22	5,179734E+22	1,473845E+23	1,035940E+23	2,509785E+23
-2769	7,369163E+22	7,369088E+22	5,179629E+22	5,179623E+22	1,473825E+23	1,035925E+23	2,509750E+23
-2768	7,368881E+22	7,369148E+22	5,179701E+22	5,179607E+22	1,473803E+23	1,035931E+23	2,509734E+23
-2767	7,369239E+22	7,369211E+22	5,179612E+22	5,179715E+22	1,473845E+23	1,035933E+23	2,509778E+23
-2766	7,369029E+22	7,369035E+22	5,179578E+22	5,179465E+22	1,473806E+23	1,035904E+23	2,509711E+23
-2765	7,369048E+22	7,369118E+22	5,179573E+22	5,179528E+22	1,473817E+23	1,035910E+23	2,509727E+23
-2764	7,369314E+22	7,369129E+22	5,179442E+22	5,179518E+22	1,473844E+23	1,035896E+23	2,509740E+23
-2763	7,368982E+22	7,369112E+22	5,179414E+22	5,179317E+22	1,473809E+23	1,035873E+23	2,509682E+23
-2762	7,369186E+22	7,369239E+22	5,179382E+22	5,179480E+22	1,473842E+23	1,035886E+23	2,509729E+23
-2761	7,369230E+22	7,369145E+22	5,179309E+22	5,179349E+22	1,473837E+23	1,035866E+23	2,509703E+23
-2760	7,368956E+22	7,369138E+22	5,179419E+22	5,179249E+22	1,473809E+23	1,035867E+23	2,509676E+23
-2759	7,369299E+22	7,369217E+22	5,179425E+22	5,179457E+22	1,473852E+23	1,035888E+23	2,509740E+23
-2758	7,369142E+22	7,369064E+22	5,179417E+22	5,179342E+22	1,473821E+23	1,035876E+23	2,509697E+23
-2757	7,368961E+22	7,369149E+22	5,179512E+22	5,179499E+22	1,473811E+23	1,035901E+23	2,509712E+23
-2756	7,369226E+22	7,369170E+22	5,179497E+22	5,179675E+22	1,473840E+23	1,035917E+23	2,509757E+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							
-2755	7,368958E+22	7,369047E+22	5,179577E+22	5,179513E+22	1,473801E+23	1,035909E+23	2,509709E+23
-2754	7,369093E+22	7,369126E+22	5,179693E+22	5,179714E+22	1,473822E+23	1,035941E+23	2,509763E+23
-2753	7,369266E+22	7,369048E+22	5,179671E+22	5,179723E+22	1,473831E+23	1,035939E+23	2,509771E+23
-2752	7,368935E+22	7,369043E+22	5,179791E+22	5,179622E+22	1,473798E+23	1,035941E+23	2,509739E+23
-2751	7,369154E+22	7,369202E+22	5,179800E+22	5,179877E+22	1,473836E+23	1,035968E+23	2,509803E+23
-2750	7,369088E+22	7,369063E+22	5,179724E+22	5,179734E+22	1,473815E+23	1,035946E+23	2,509761E+23
-2749	7,368847E+22	7,369094E+22	5,179788E+22	5,179706E+22	1,473794E+23	1,035949E+23	2,509744E+23
-2748	7,369186E+22	7,369106E+22	5,179727E+22	5,179811E+22	1,473829E+23	1,035954E+23	2,509783E+23
-2747	7,369025E+22	7,368965E+22	5,179667E+22	5,179526E+22	1,473799E+23	1,035919E+23	2,509718E+23
-2746	7,369024E+22	7,369102E+22	5,179649E+22	5,179628E+22	1,473813E+23	1,035928E+23	2,509740E+23
-2745	7,369246E+22	7,369100E+22	5,179476E+22	5,179638E+22	1,473835E+23	1,035911E+23	2,509746E+23
-2744	7,368942E+22	7,369063E+22	5,179495E+22	5,179388E+22	1,473800E+23	1,035888E+23	2,509689E+23
-2743	7,369125E+22	7,369212E+22	5,179509E+22	5,179547E+22	1,473834E+23	1,035906E+23	2,509739E+23
-2742	7,369227E+22	7,369081E+22	5,179423E+22	5,179407E+22	1,473831E+23	1,035883E+23	2,509714E+23
-2741	7,368952E+22	7,369099E+22	5,179526E+22	5,179370E+22	1,473805E+23	1,035890E+23	2,509695E+23
-2740	7,369186E+22	7,369175E+22	5,179547E+22	5,179629E+22	1,473836E+23	1,035918E+23	2,509754E+23
-2739	7,369049E+22	7,369053E+22	5,179526E+22	5,179492E+22	1,473810E+23	1,035902E+23	2,509712E+23
-2738	7,368908E+22	7,369128E+22	5,179641E+22	5,179645E+22	1,473804E+23	1,035929E+23	2,509732E+23
-2737	7,369189E+22	7,369079E+22	5,179613E+22	5,179798E+22	1,473827E+23	1,035941E+23	2,509768E+23
-2736	7,368991E+22	7,368946E+22	5,179735E+22	5,179597E+22	1,473794E+23	1,035933E+23	2,509727E+23
-2735	7,369067E+22	7,369094E+22	5,179855E+22	5,179828E+22	1,473816E+23	1,035968E+23	2,509784E+23
-2734	7,369215E+22	7,369034E+22	5,179775E+22	5,179852E+22	1,473825E+23	1,035963E+23	2,509788E+23
-2733	7,368871E+22	7,369047E+22	5,179874E+22	5,179778E+22	1,473792E+23	1,035965E+23	2,509757E+23
-2732	7,369017E+22	7,369137E+22	5,179914E+22	5,180006E+22	1,473815E+23	1,035992E+23	2,509807E+23
-2731	7,369031E+22	7,368995E+22	5,179838E+22	5,179798E+22	1,473803E+23	1,035964E+23	2,509766E+23
-2730	7,368861E+22	7,369020E+22	5,179903E+22	5,179776E+22	1,473788E+23	1,035968E+23	2,509756E+23
-2729	7,369166E+22	7,369015E+22	5,179792E+22	5,179909E+22	1,473818E+23	1,035970E+23	2,509788E+23
-2728	7,369019E+22	7,368926E+22	5,179735E+22	5,179617E+22	1,473794E+23	1,035935E+23	2,509730E+23
-2727	7,368955E+22	7,369126E+22	5,179726E+22	5,179728E+22	1,473808E+23	1,035945E+23	2,509753E+23
-2726	7,369203E+22	7,369096E+22	5,179543E+22	5,179707E+22	1,473830E+23	1,035925E+23	2,509755E+23
-2725	7,368936E+22	7,369044E+22	5,179587E+22	5,179462E+22	1,473798E+23	1,035905E+23	2,509703E+23
-2724	7,369050E+22	7,369137E+22	5,179660E+22	5,179638E+22	1,473819E+23	1,035930E+23	2,509748E+23
-2723	7,369173E+22	7,369038E+22	5,179558E+22	5,179515E+22	1,473821E+23	1,035907E+23	2,509728E+23
-2722	7,368886E+22	7,369071E+22	5,179643E+22	5,179534E+22	1,473796E+23	1,035918E+23	2,509713E+23
-2721	7,369087E+22	7,369098E+22	5,179626E+22	5,179810E+22	1,473818E+23	1,035944E+23	2,509762E+23
-2720	7,369028E+22	7,368952E+22	5,179638E+22	5,179612E+22	1,473798E+23	1,035925E+23	2,509723E+23
-2719	7,368893E+22	7,369071E+22	5,179782E+22	5,179739E+22	1,473796E+23	1,035952E+23	2,509749E+23
-2718	7,369230E+22	7,369020E+22	5,179733E+22	5,179878E+22	1,473825E+23	1,035961E+23	2,509786E+23
-2717	7,369005E+22	7,368939E+22	5,179843E+22	5,179712E+22	1,473794E+23	1,035955E+23	2,509750E+23
-2716	7,368947E+22	7,369096E+22	5,179994E+22	5,179976E+22	1,473804E+23	1,035997E+23	2,509801E+23
-2715	7,369107E+22	7,369042E+22	5,179900E+22	5,179976E+22	1,473815E+23	1,035988E+23	2,509802E+23
-2714	7,368785E+22	7,369014E+22	5,180013E+22	5,179903E+22	1,473780E+23	1,035992E+23	2,509772E+23
-2713	7,368945E+22	7,369019E+22	5,180028E+22	5,180118E+22	1,473796E+23	1,036015E+23	2,509811E+23
-2712	7,369049E+22	7,368855E+22	5,179959E+22	5,179879E+22	1,473790E+23	1,035984E+23	2,509774E+23
-2711	7,368839E+22	7,368973E+22	5,179995E+22	5,179880E+22	1,473781E+23	1,035988E+23	2,509769E+23
-2710	7,369144E+22	7,368995E+22	5,179818E+22	5,180015E+22	1,473814E+23	1,035983E+23	2,509797E+23
-2709	7,368992E+22	7,368941E+22	5,179757E+22	5,179720E+22	1,473793E+23	1,035948E+23	2,509741E+23
-2708	7,368861E+22	7,369101E+22	5,179821E+22	5,179799E+22	1,473796E+23	1,035962E+23	2,509758E+23
-2707	7,369166E+22	7,369068E+22	5,179665E+22	5,179735E+22	1,473823E+23	1,035940E+23	2,509763E+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	7,368930E+22	7,369004E+22	5,179733E+22	5,179540E+22	1,473793E+23	1,035927E+23	2,509721E+23
-2705	7,368975E+22	7,369057E+22	5,179771E+22	5,179770E+22	1,473803E+23	1,035954E+23	2,509757E+23
-2704	7,369123E+22	7,368970E+22	5,179673E+22	5,179662E+22	1,473809E+23	1,035934E+23	2,509743E+23
-2703	7,368811E+22	7,369048E+22	5,179755E+22	5,179686E+22	1,473786E+23	1,035944E+23	2,509730E+23
-2702	7,369064E+22	7,369033E+22	5,179714E+22	5,179926E+22	1,473810E+23	1,035964E+23	2,509774E+23
-2701	7,369064E+22	7,368905E+22	5,179743E+22	5,179714E+22	1,473797E+23	1,035946E+23	2,509743E+23
-2700	7,368859E+22	7,369002E+22	5,179941E+22	5,179838E+22	1,473786E+23	1,035978E+23	2,509764E+23
-2699	7,369174E+22	7,369016E+22	5,179878E+22	5,179985E+22	1,473819E+23	1,035986E+23	2,509805E+23
-2698	7,368924E+22	7,368959E+22	5,179979E+22	5,179876E+22	1,473788E+23	1,035986E+23	2,509774E+23
-2697	7,368798E+22	7,369033E+22	5,180105E+22	5,180143E+22	1,473783E+23	1,036025E+23	2,509808E+23
-2696	7,369047E+22	7,368933E+22	5,180036E+22	5,180093E+22	1,473798E+23	1,036013E+23	2,509811E+23
-2695	7,368755E+22	7,368923E+22	5,180146E+22	5,179995E+22	1,473768E+23	1,036014E+23	2,509782E+23
-2694	7,368975E+22	7,368916E+22	5,180106E+22	5,180200E+22	1,473789E+23	1,036031E+23	2,509820E+23
-2693	7,369080E+22	7,368836E+22	5,180002E+22	5,179981E+22	1,473792E+23	1,035998E+23	2,509790E+23
-2692	7,368761E+22	7,368981E+22	5,180068E+22	5,179985E+22	1,473774E+23	1,036005E+23	2,509779E+23
-2691	7,369077E+22	7,369036E+22	5,179896E+22	5,180080E+22	1,473811E+23	1,035998E+23	2,509809E+23
-2690	7,368948E+22	7,368957E+22	5,179873E+22	5,179787E+22	1,473791E+23	1,035966E+23	2,509757E+23
-2689	7,368792E+22	7,369018E+22	5,179950E+22	5,179870E+22	1,473781E+23	1,035982E+23	2,509763E+23
-2688	7,369158E+22	7,368954E+22	5,179815E+22	5,179815E+22	1,473811E+23	1,035963E+23	2,509774E+23
-2687	7,368864E+22	7,368953E+22	5,179860E+22	5,179678E+22	1,473782E+23	1,035954E+23	2,509735E+23
-2686	7,368921E+22	7,368997E+22	5,179830E+22	5,179931E+22	1,473792E+23	1,035976E+23	2,509768E+23
-2685	7,369091E+22	7,368925E+22	5,179719E+22	5,179807E+22	1,473802E+23	1,035953E+23	2,509754E+23
-2684	7,368745E+22	7,368985E+22	5,179863E+22	5,179791E+22	1,473773E+23	1,035965E+23	2,509738E+23
-2683	7,369067E+22	7,368994E+22	5,179837E+22	5,179981E+22	1,473806E+23	1,035982E+23	2,509788E+23
-2682	7,369070E+22	7,368894E+22	5,179889E+22	5,179812E+22	1,473796E+23	1,035970E+23	2,509767E+23
-2681	7,368771E+22	7,368970E+22	5,180079E+22	5,179981E+22	1,473774E+23	1,036006E+23	2,509780E+23
-2680	7,369094E+22	7,368976E+22	5,180031E+22	5,180134E+22	1,473807E+23	1,036017E+23	2,509824E+23
-2679	7,368810E+22	7,368940E+22	5,180135E+22	5,180032E+22	1,473775E+23	1,036017E+23	2,509792E+23
-2678	7,368746E+22	7,368940E+22	5,180217E+22	5,180268E+22	1,473769E+23	1,036049E+23	2,509817E+23
-2677	7,369061E+22	7,368839E+22	5,180135E+22	5,180199E+22	1,473790E+23	1,036033E+23	2,509823E+23
-2676	7,368729E+22	7,368833E+22	5,180265E+22	5,180100E+22	1,473756E+23	1,036036E+23	2,509793E+23
-2675	7,368949E+22	7,368903E+22	5,180184E+22	5,180290E+22	1,473785E+23	1,036047E+23	2,509833E+23
-2674	7,369038E+22	7,368874E+22	5,180072E+22	5,180098E+22	1,473791E+23	1,036017E+23	2,509808E+23
-2673	7,368663E+22	7,368948E+22	5,180144E+22	5,180078E+22	1,473761E+23	1,036022E+23	2,509783E+23
-2672	7,369045E+22	7,368969E+22	5,180023E+22	5,180125E+22	1,473801E+23	1,036015E+23	2,509816E+23
-2671	7,368920E+22	7,368911E+22	5,180017E+22	5,179844E+22	1,473783E+23	1,035986E+23	2,509769E+23
-2670	7,368775E+22	7,368931E+22	5,180043E+22	5,179959E+22	1,473771E+23	1,036000E+23	2,509771E+23
-2669	7,369130E+22	7,368925E+22	5,179879E+22	5,179951E+22	1,473805E+23	1,035983E+23	2,509788E+23
-2668	7,368763E+22	7,368917E+22	5,179944E+22	5,179825E+22	1,473768E+23	1,035977E+23	2,509745E+23
-2667	7,368852E+22	7,368980E+22	5,179910E+22	5,180036E+22	1,473783E+23	1,035995E+23	2,509778E+23
-2666	7,369077E+22	7,368914E+22	5,179831E+22	5,179910E+22	1,473799E+23	1,035974E+23	2,509773E+23
-2665	7,368709E+22	7,368896E+22	5,179999E+22	5,179881E+22	1,473761E+23	1,035988E+23	2,509749E+23
-2664	7,369067E+22	7,368918E+22	5,180004E+22	5,180077E+22	1,473799E+23	1,036008E+23	2,509807E+23
-2663	7,368995E+22	7,368892E+22	5,180046E+22	5,179960E+22	1,473789E+23	1,036001E+23	2,509789E+23
-2662	7,368680E+22	7,368925E+22	5,180183E+22	5,180152E+22	1,473761E+23	1,036034E+23	2,509794E+23
-2661	7,369026E+22	7,368927E+22	5,180130E+22	5,180286E+22	1,473795E+23	1,036042E+23	2,509837E+23
-2660	7,368731E+22	7,368843E+22	5,180279E+22	5,180153E+22	1,473757E+23	1,036043E+23	2,509801E+23
-2659	7,368743E+22	7,368863E+22	5,180341E+22	5,180343E+22	1,473761E+23	1,036068E+23	2,509829E+23
-2658	7,369078E+22	7,368815E+22	5,180244E+22	5,180304E+22	1,473789E+23	1,036055E+23	2,509844E+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	7,368669E+22	7,368803E+22	5,180351E+22	5,180222E+22	1,473747E+23	1,036057E+23	2,509805E+23
-2656	7,368910E+22	7,368891E+22	5,180282E+22	5,180390E+22	1,473780E+23	1,036067E+23	2,509847E+23
-2655	7,368955E+22	7,368896E+22	5,180190E+22	5,180186E+22	1,473785E+23	1,036038E+23	2,509823E+23
-2654	7,368629E+22	7,368891E+22	5,180242E+22	5,180150E+22	1,473752E+23	1,036039E+23	2,509791E+23
-2653	7,369038E+22	7,368891E+22	5,180121E+22	5,180188E+22	1,473793E+23	1,036031E+23	2,509824E+23
-2652	7,368848E+22	7,368831E+22	5,180140E+22	5,179953E+22	1,473768E+23	1,036009E+23	2,509777E+23
-2651	7,368705E+22	7,368899E+22	5,180112E+22	5,180080E+22	1,473760E+23	1,036019E+23	2,509780E+23
-2650	7,369058E+22	7,368919E+22	5,179937E+22	5,180102E+22	1,473798E+23	1,036004E+23	2,509802E+23
-2649	7,368680E+22	7,368842E+22	5,180016E+22	5,179946E+22	1,473752E+23	1,035996E+23	2,509748E+23
-2648	7,368864E+22	7,368888E+22	5,180028E+22	5,180097E+22	1,473775E+23	1,036013E+23	2,509788E+23
-2647	7,369081E+22	7,368879E+22	5,179982E+22	5,179977E+22	1,473796E+23	1,035996E+23	2,509792E+23
-2646	7,368712E+22	7,368845E+22	5,180119E+22	5,179988E+22	1,473756E+23	1,036011E+23	2,509766E+23
-2645	7,369018E+22	7,368918E+22	5,180120E+22	5,180214E+22	1,473794E+23	1,036033E+23	2,509827E+23
-2644	7,368866E+22	7,368880E+22	5,180200E+22	5,180131E+22	1,473775E+23	1,036033E+23	2,509808E+23
-2643	7,368583E+22	7,368894E+22	5,180321E+22	5,180286E+22	1,473748E+23	1,036061E+23	2,509808E+23
-2642	7,368984E+22	7,368881E+22	5,180275E+22	5,180422E+22	1,473786E+23	1,036070E+23	2,509856E+23
-2641	7,368696E+22	7,368715E+22	5,180419E+22	5,180275E+22	1,473741E+23	1,036069E+23	2,509811E+23
-2640	7,368753E+22	7,368771E+22	5,180470E+22	5,180457E+22	1,473752E+23	1,036093E+23	2,509845E+23
-2639	7,369028E+22	7,368827E+22	5,180351E+22	5,180438E+22	1,473786E+23	1,036079E+23	2,509864E+23
-2638	7,368613E+22	7,368777E+22	5,180403E+22	5,180344E+22	1,473739E+23	1,036075E+23	2,509814E+23
-2637	7,368866E+22	7,368871E+22	5,180352E+22	5,180464E+22	1,473774E+23	1,036082E+23	2,509855E+23
-2636	7,368892E+22	7,368837E+22	5,180312E+22	5,180244E+22	1,473773E+23	1,036056E+23	2,509828E+23
-2635	7,368598E+22	7,368830E+22	5,180348E+22	5,180196E+22	1,473743E+23	1,036054E+23	2,509797E+23
-2634	7,369003E+22	7,368878E+22	5,180213E+22	5,180295E+22	1,473788E+23	1,036051E+23	2,509839E+23
-2633	7,368754E+22	7,368769E+22	5,180216E+22	5,180092E+22	1,473752E+23	1,036031E+23	2,509783E+23
-2632	7,368661E+22	7,368847E+22	5,180194E+22	5,180197E+22	1,473751E+23	1,036039E+23	2,509790E+23
-2631	7,369009E+22	7,368904E+22	5,180045E+22	5,180197E+22	1,473791E+23	1,036024E+23	2,509815E+23
-2630	7,368691E+22	7,368764E+22	5,180107E+22	5,180024E+22	1,473745E+23	1,036013E+23	2,509759E+23
-2629	7,368894E+22	7,368830E+22	5,180144E+22	5,180163E+22	1,473772E+23	1,036031E+23	2,509803E+23
-2628	7,369021E+22	7,368847E+22	5,180136E+22	5,180101E+22	1,473787E+23	1,036024E+23	2,509811E+23
-2627	7,368621E+22	7,368849E+22	5,180242E+22	5,180137E+22	1,473747E+23	1,036038E+23	2,509785E+23
-2626	7,368906E+22	7,368928E+22	5,180241E+22	5,180390E+22	1,473783E+23	1,036063E+23	2,509847E+23
-2625	7,368749E+22	7,368783E+22	5,180341E+22	5,180293E+22	1,473753E+23	1,036063E+23	2,509817E+23
-2624	7,368576E+22	7,368769E+22	5,180473E+22	5,180397E+22	1,473734E+23	1,036087E+23	2,509822E+23
-2623	7,368972E+22	7,368811E+22	5,180426E+22	5,180530E+22	1,473778E+23	1,036096E+23	2,509874E+23
-2622	7,368709E+22	7,368650E+22	5,180502E+22	5,180407E+22	1,473736E+23	1,036091E+23	2,509827E+23
-2621	7,368737E+22	7,368763E+22	5,180534E+22	5,180569E+22	1,473750E+23	1,036110E+23	2,509860E+23
-2620	7,368929E+22	7,368837E+22	5,180458E+22	5,180555E+22	1,473777E+23	1,036101E+23	2,509878E+23
-2619	7,368548E+22	7,368778E+22	5,180505E+22	5,180412E+22	1,473733E+23	1,036092E+23	2,509824E+23
-2618	7,368819E+22	7,368852E+22	5,180472E+22	5,180530E+22	1,473767E+23	1,036100E+23	2,509867E+23
-2617	7,368831E+22	7,368727E+22	5,180441E+22	5,180336E+22	1,473756E+23	1,036078E+23	2,509833E+23
-2616	7,368572E+22	7,368733E+22	5,180454E+22	5,180302E+22	1,473730E+23	1,036076E+23	2,509806E+23
-2615	7,368920E+22	7,368858E+22	5,180297E+22	5,180429E+22	1,473778E+23	1,036073E+23	2,509850E+23
-2614	7,368715E+22	7,368700E+22	5,180247E+22	5,180222E+22	1,473741E+23	1,036047E+23	2,509788E+23
-2613	7,368663E+22	7,368788E+22	5,180249E+22	5,180264E+22	1,473745E+23	1,036051E+23	2,509796E+23
-2612	7,368995E+22	7,368855E+22	5,180168E+22	5,180258E+22	1,473785E+23	1,036043E+23	2,509828E+23
-2611	7,368697E+22	7,368745E+22	5,180224E+22	5,180082E+22	1,473744E+23	1,036031E+23	2,509775E+23
-2610	7,368849E+22	7,368869E+22	5,180270E+22	5,180285E+22	1,473772E+23	1,036055E+23	2,509827E+23
-2609	7,368897E+22	7,368822E+22	5,180275E+22	5,180274E+22	1,473772E+23	1,036055E+23	2,509827E+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	7,368530E+22	7,368797E+22	5,180393E+22	5,180300E+22	1,473733E+23	1,036069E+23	2,509802E+23
-2607	7,368817E+22	7,368886E+22	5,180410E+22	5,180537E+22	1,473770E+23	1,036095E+23	2,509865E+23
-2606	7,368744E+22	7,368644E+22	5,180461E+22	5,180425E+22	1,473739E+23	1,036089E+23	2,509827E+23
-2605	7,368607E+22	7,368661E+22	5,180584E+22	5,180503E+22	1,473727E+23	1,036109E+23	2,509836E+23
-2604	7,368935E+22	7,368766E+22	5,180545E+22	5,180667E+22	1,473770E+23	1,036121E+23	2,509891E+23
-2603	7,368650E+22	7,368659E+22	5,180574E+22	5,180529E+22	1,473731E+23	1,036110E+23	2,509841E+23
-2602	7,368664E+22	7,368804E+22	5,180617E+22	5,180681E+22	1,473747E+23	1,036130E+23	2,509877E+23
-2601	7,368840E+22	7,368768E+22	5,180582E+22	5,180641E+22	1,473761E+23	1,036122E+23	2,509883E+23
-2600	7,368534E+22	7,368686E+22	5,180646E+22	5,180467E+22	1,473722E+23	1,036111E+23	2,509833E+23
-2599	7,368774E+22	7,368804E+22	5,180612E+22	5,180604E+22	1,473758E+23	1,036122E+23	2,509879E+23
-2598	7,368798E+22	7,368648E+22	5,180506E+22	5,180463E+22	1,473745E+23	1,036097E+23	2,509842E+23
-2597	7,368542E+22	7,368694E+22	5,180499E+22	5,180418E+22	1,473724E+23	1,036092E+23	2,509815E+23
-2596	7,368845E+22	7,368834E+22	5,180379E+22	5,180546E+22	1,473768E+23	1,036093E+23	2,509860E+23
-2595	7,368695E+22	7,368683E+22	5,180321E+22	5,180290E+22	1,473738E+23	1,036061E+23	2,509799E+23
-2594	7,368670E+22	7,368784E+22	5,180352E+22	5,180323E+22	1,473745E+23	1,036067E+23	2,509813E+23
-2593	7,368952E+22	7,368787E+22	5,180312E+22	5,180356E+22	1,473774E+23	1,036067E+23	2,509841E+23
-2592	7,368654E+22	7,368709E+22	5,180364E+22	5,180216E+22	1,473736E+23	1,036058E+23	2,509794E+23
-2591	7,368714E+22	7,368872E+22	5,180412E+22	5,180443E+22	1,473759E+23	1,036086E+23	2,509844E+23
-2590	7,368811E+22	7,368734E+22	5,180375E+22	5,180450E+22	1,473754E+23	1,036082E+23	2,509837E+23
-2589	7,368514E+22	7,368673E+22	5,180504E+22	5,180411E+22	1,473719E+23	1,036091E+23	2,509810E+23
-2588	7,368791E+22	7,368774E+22	5,180558E+22	5,180646E+22	1,473756E+23	1,036120E+23	2,509877E+23
-2587	7,368762E+22	7,368589E+22	5,180565E+22	5,180526E+22	1,473735E+23	1,036109E+23	2,509844E+23
-2586	7,368591E+22	7,368690E+22	5,180674E+22	5,180629E+22	1,473728E+23	1,036130E+23	2,509858E+23
-2585	7,368842E+22	7,368756E+22	5,180663E+22	5,180811E+22	1,473760E+23	1,036147E+23	2,509907E+23
-2584	7,368587E+22	7,368649E+22	5,180708E+22	5,180638E+22	1,473724E+23	1,036135E+23	2,509858E+23
-2583	7,368574E+22	7,368795E+22	5,180784E+22	5,180759E+22	1,473737E+23	1,036154E+23	2,509891E+23
-2582	7,368817E+22	7,368656E+22	5,180705E+22	5,180738E+22	1,473747E+23	1,036144E+23	2,509892E+23
-2581	7,368532E+22	7,368574E+22	5,180754E+22	5,180559E+22	1,473711E+23	1,036131E+23	2,509842E+23
-2580	7,368694E+22	7,368751E+22	5,180709E+22	5,180745E+22	1,473745E+23	1,036145E+23	2,509890E+23
-2579	7,368735E+22	7,368631E+22	5,180539E+22	5,180589E+22	1,473737E+23	1,036113E+23	2,509849E+23
-2578	7,368503E+22	7,368707E+22	5,180535E+22	5,180518E+22	1,473721E+23	1,036105E+23	2,509826E+23
-2577	7,368809E+22	7,368762E+22	5,180474E+22	5,180616E+22	1,473757E+23	1,036109E+23	2,509866E+23
-2576	7,368716E+22	7,368627E+22	5,180441E+22	5,180332E+22	1,473734E+23	1,036077E+23	2,509812E+23
-2575	7,368637E+22	7,368788E+22	5,180503E+22	5,180391E+22	1,473743E+23	1,036089E+23	2,509832E+23
-2574	7,368898E+22	7,368737E+22	5,180410E+22	5,180490E+22	1,473764E+23	1,036090E+23	2,509854E+23
-2573	7,368584E+22	7,368662E+22	5,180474E+22	5,180356E+22	1,473725E+23	1,036083E+23	2,509808E+23
-2572	7,368602E+22	7,368821E+22	5,180557E+22	5,180597E+22	1,473742E+23	1,036115E+23	2,509858E+23
-2571	7,368765E+22	7,368658E+22	5,180491E+22	5,180567E+22	1,473742E+23	1,036106E+23	2,509848E+23
-2570	7,368524E+22	7,368617E+22	5,180620E+22	5,180523E+22	1,473714E+23	1,036114E+23	2,509828E+23
-2569	7,368766E+22	7,368671E+22	5,180697E+22	5,180783E+22	1,473744E+23	1,036148E+23	2,509892E+23
-2568	7,368731E+22	7,368568E+22	5,180683E+22	5,180668E+22	1,473730E+23	1,036135E+23	2,509865E+23
-2567	7,368493E+22	7,368725E+22	5,180806E+22	5,180761E+22	1,473722E+23	1,036157E+23	2,509879E+23
-2566	7,368772E+22	7,368698E+22	5,180771E+22	5,180941E+22	1,473747E+23	1,036171E+23	2,509918E+23
-2565	7,368567E+22	7,368564E+22	5,180843E+22	5,180714E+22	1,473713E+23	1,036156E+23	2,509869E+23
-2564	7,368518E+22	7,368716E+22	5,180939E+22	5,180849E+22	1,473723E+23	1,036179E+23	2,509902E+23
-2563	7,368787E+22	7,368605E+22	5,180794E+22	5,180842E+22	1,473739E+23	1,036164E+23	2,509903E+23
-2562	7,368494E+22	7,368581E+22	5,180805E+22	5,180688E+22	1,473708E+23	1,036149E+23	2,509857E+23
-2561	7,368608E+22	7,368701E+22	5,180786E+22	5,180883E+22	1,473731E+23	1,036167E+23	2,509898E+23
-2560	7,368707E+22	7,368610E+22	5,180623E+22	5,180677E+22	1,473732E+23	1,036130E+23	2,509862E+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	7,368469E+22	7,368695E+22	5,180657E+22	5,180556E+22	1,473716E+23	1,036121E+23	2,509838E+23
-2558	7,368819E+22	7,368670E+22	5,180577E+22	5,180680E+22	1,473749E+23	1,036126E+23	2,509875E+23
-2557	7,368724E+22	7,368551E+22	5,180555E+22	5,180406E+22	1,473727E+23	1,036096E+23	2,509824E+23
-2556	7,368522E+22	7,368764E+22	5,180629E+22	5,180531E+22	1,473729E+23	1,036116E+23	2,509845E+23
-2555	7,368794E+22	7,368718E+22	5,180492E+22	5,180639E+22	1,473751E+23	1,036113E+23	2,509864E+23
-2554	7,368521E+22	7,368629E+22	5,180563E+22	5,180491E+22	1,473715E+23	1,036105E+23	2,509820E+23
-2553	7,368550E+22	7,368693E+22	5,180698E+22	5,180720E+22	1,473724E+23	1,036142E+23	2,509866E+23
-2552	7,368780E+22	7,368575E+22	5,180629E+22	5,180667E+22	1,473735E+23	1,036130E+23	2,509865E+23
-2551	7,368498E+22	7,368614E+22	5,180766E+22	5,180633E+22	1,473711E+23	1,036140E+23	2,509851E+23
-2550	7,368727E+22	7,368641E+22	5,180795E+22	5,180942E+22	1,473737E+23	1,036174E+23	2,509911E+23
-2549	7,368683E+22	7,368549E+22	5,180806E+22	5,180799E+22	1,473723E+23	1,036160E+23	2,509884E+23
-2548	7,368388E+22	7,368714E+22	5,180973E+22	5,180889E+22	1,473710E+23	1,036186E+23	2,509896E+23
-2547	7,368719E+22	7,368647E+22	5,180906E+22	5,181032E+22	1,473737E+23	1,036194E+23	2,509930E+23
-2546	7,368553E+22	7,368513E+22	5,180968E+22	5,180818E+22	1,473707E+23	1,036179E+23	2,509885E+23
-2545	7,368454E+22	7,368609E+22	5,181067E+22	5,180992E+22	1,473706E+23	1,036206E+23	2,509912E+23
-2544	7,368719E+22	7,368569E+22	5,180869E+22	5,180979E+22	1,473729E+23	1,036185E+23	2,509914E+23
-2543	7,368418E+22	7,368586E+22	5,180882E+22	5,180797E+22	1,473700E+23	1,036168E+23	2,509868E+23
-2542	7,368590E+22	7,368609E+22	5,180833E+22	5,180966E+22	1,473720E+23	1,036180E+23	2,509900E+23
-2541	7,368736E+22	7,368522E+22	5,180713E+22	5,180697E+22	1,473726E+23	1,036141E+23	2,509867E+23
-2540	7,368452E+22	7,368658E+22	5,180787E+22	5,180603E+22	1,473711E+23	1,036139E+23	2,509850E+23
-2539	7,368778E+22	7,368661E+22	5,180666E+22	5,180755E+22	1,473744E+23	1,036142E+23	2,509886E+23
-2538	7,368655E+22	7,368588E+22	5,180636E+22	5,180539E+22	1,473724E+23	1,036117E+23	2,509842E+23
-2537	7,368394E+22	7,368705E+22	5,180755E+22	5,180696E+22	1,473710E+23	1,036145E+23	2,509855E+23
-2536	7,368711E+22	7,368670E+22	5,180618E+22	5,180771E+22	1,473738E+23	1,036139E+23	2,509877E+23
-2535	7,368481E+22	7,368575E+22	5,180716E+22	5,180593E+22	1,473706E+23	1,036131E+23	2,509837E+23
-2534	7,368565E+22	7,368558E+22	5,180816E+22	5,180848E+22	1,473712E+23	1,036166E+23	2,509879E+23
-2533	7,368794E+22	7,368498E+22	5,180752E+22	5,180793E+22	1,473729E+23	1,036155E+23	2,509884E+23
-2532	7,368412E+22	7,368618E+22	5,180898E+22	5,180792E+22	1,473703E+23	1,036169E+23	2,509872E+23
-2531	7,368643E+22	7,368647E+22	5,180895E+22	5,181079E+22	1,473729E+23	1,036197E+23	2,509926E+23
-2530	7,368636E+22	7,368545E+22	5,180924E+22	5,180913E+22	1,473718E+23	1,036184E+23	2,509902E+23
-2529	7,368320E+22	7,368604E+22	5,181146E+22	5,181001E+22	1,473692E+23	1,036215E+23	2,509907E+23
-2528	7,368690E+22	7,368581E+22	5,181052E+22	5,181132E+22	1,473727E+23	1,036218E+23	2,509945E+23
-2527	7,368498E+22	7,368485E+22	5,181094E+22	5,180929E+22	1,473698E+23	1,036202E+23	2,509901E+23
-2526	7,368401E+22	7,368532E+22	5,181127E+22	5,181140E+22	1,473693E+23	1,036227E+23	2,509920E+23
-2525	7,368697E+22	7,368510E+22	5,180942E+22	5,181077E+22	1,473721E+23	1,036202E+23	2,509923E+23
-2524	7,368360E+22	7,368562E+22	5,180984E+22	5,180870E+22	1,473692E+23	1,036185E+23	2,509878E+23
-2523	7,368588E+22	7,368575E+22	5,180912E+22	5,181003E+22	1,473716E+23	1,036191E+23	2,509908E+23
-2522	7,368749E+22	7,368510E+22	5,180801E+22	5,180756E+22	1,473726E+23	1,036156E+23	2,509882E+23
-2521	7,368369E+22	7,368602E+22	5,180912E+22	5,180729E+22	1,473697E+23	1,036164E+23	2,509861E+23
-2520	7,368661E+22	7,368665E+22	5,180761E+22	5,180892E+22	1,473733E+23	1,036165E+23	2,509898E+23
-2519	7,368539E+22	7,368581E+22	5,180753E+22	5,180675E+22	1,473712E+23	1,036143E+23	2,509855E+23
-2518	7,368349E+22	7,368575E+22	5,180850E+22	5,180830E+22	1,473692E+23	1,036168E+23	2,509860E+23
-2517	7,368737E+22	7,368535E+22	5,180744E+22	5,180854E+22	1,473727E+23	1,036160E+23	2,509887E+23
-2516	7,368478E+22	7,368517E+22	5,180855E+22	5,180700E+22	1,473700E+23	1,036156E+23	2,509855E+23
-2515	7,368558E+22	7,368548E+22	5,180901E+22	5,180966E+22	1,473711E+23	1,036187E+23	2,509897E+23
-2514	7,368755E+22	7,368550E+22	5,180845E+22	5,180938E+22	1,473730E+23	1,036178E+23	2,509909E+23
-2513	7,368309E+22	7,368592E+22	5,181061E+22	5,180952E+22	1,473690E+23	1,036201E+23	2,509891E+23
-2512	7,368545E+22	7,368628E+22	5,181061E+22	5,181186E+22	1,473717E+23	1,036225E+23	2,509942E+23
-2511	7,368578E+22	7,368499E+22	5,181115E+22	5,181015E+22	1,473708E+23	1,036213E+23	2,509921E+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							
-2510	7,368299E+22	7,368446E+22	5,181276E+22	5,181140E+22	1,473674E+23	1,036242E+23	2,509916E+23
-2509	7,368653E+22	7,368470E+22	5,181158E+22	5,181266E+22	1,473712E+23	1,036242E+23	2,509955E+23
-2508	7,368410E+22	7,368460E+22	5,181175E+22	5,181083E+22	1,473687E+23	1,036226E+23	2,509913E+23
-2507	7,368358E+22	7,368499E+22	5,181157E+22	5,181242E+22	1,473686E+23	1,036240E+23	2,509926E+23
-2506	7,368700E+22	7,368503E+22	5,180996E+22	5,181135E+22	1,473720E+23	1,036213E+23	2,509933E+23
-2505	7,368342E+22	7,368490E+22	5,181105E+22	5,180925E+22	1,473683E+23	1,036203E+23	2,509886E+23
-2504	7,368550E+22	7,368572E+22	5,181024E+22	5,181050E+22	1,473712E+23	1,036207E+23	2,509920E+23
-2503	7,368675E+22	7,368542E+22	5,180922E+22	5,180852E+22	1,473722E+23	1,036177E+23	2,509899E+23
-2502	7,368281E+22	7,368532E+22	5,180997E+22	5,180885E+22	1,473681E+23	1,036188E+23	2,509870E+23
-2501	7,368593E+22	7,368586E+22	5,180874E+22	5,181016E+22	1,473718E+23	1,036189E+23	2,509907E+23
-2500	7,368475E+22	7,368515E+22	5,180886E+22	5,180790E+22	1,473699E+23	1,036168E+23	2,509867E+23
-2499	7,368368E+22	7,368483E+22	5,180942E+22	5,180920E+22	1,473685E+23	1,036186E+23	2,509871E+23
-2498	7,368778E+22	7,368495E+22	5,180839E+22	5,180961E+22	1,473727E+23	1,036180E+23	2,509907E+23
-2497	7,368419E+22	7,368472E+22	5,180985E+22	5,180857E+22	1,473689E+23	1,036184E+23	2,509873E+23
-2496	7,368459E+22	7,368587E+22	5,181015E+22	5,181104E+22	1,473705E+23	1,036212E+23	2,509917E+23
-2495	7,368660E+22	7,368562E+22	5,180998E+22	5,181061E+22	1,473722E+23	1,036206E+23	2,509928E+23
-2494	7,368249E+22	7,368469E+22	5,181210E+22	5,181084E+22	1,473672E+23	1,036229E+23	2,509901E+23
-2493	7,368527E+22	7,368501E+22	5,181230E+22	5,181280E+22	1,473703E+23	1,036251E+23	2,509954E+23
-2492	7,368522E+22	7,368429E+22	5,181267E+22	5,181149E+22	1,473695E+23	1,036242E+23	2,509937E+23
-2491	7,368262E+22	7,368401E+22	5,181340E+22	5,181285E+22	1,473666E+23	1,036262E+23	2,509929E+23
-2490	7,368622E+22	7,368475E+22	5,181207E+22	5,181405E+22	1,473710E+23	1,036261E+23	2,509971E+23
-2489	7,368342E+22	7,368418E+22	5,181275E+22	5,181207E+22	1,473676E+23	1,036248E+23	2,509924E+23
-2488	7,368316E+22	7,368503E+22	5,181256E+22	5,181287E+22	1,473682E+23	1,036254E+23	2,509936E+23
-2487	7,368688E+22	7,368495E+22	5,181135E+22	5,181174E+22	1,473718E+23	1,036231E+23	2,509949E+23
-2486	7,368323E+22	7,368393E+22	5,181217E+22	5,181025E+22	1,473672E+23	1,036224E+23	2,509896E+23
-2485	7,368481E+22	7,368513E+22	5,181134E+22	5,181154E+22	1,473699E+23	1,036229E+23	2,509928E+23
-2484	7,368554E+22	7,368526E+22	5,181024E+22	5,181000E+22	1,473708E+23	1,036202E+23	2,509910E+23
-2483	7,368230E+22	7,368458E+22	5,181050E+22	5,181003E+22	1,473669E+23	1,036205E+23	2,509874E+23
-2482	7,368601E+22	7,368519E+22	5,180949E+22	5,181103E+22	1,473712E+23	1,036205E+23	2,509917E+23
-2481	7,368482E+22	7,368412E+22	5,181013E+22	5,180892E+22	1,473689E+23	1,036190E+23	2,509880E+23
-2480	7,368350E+22	7,368476E+22	5,181043E+22	5,180998E+22	1,473683E+23	1,036204E+23	2,509887E+23
-2479	7,368726E+22	7,368542E+22	5,180966E+22	5,181081E+22	1,473727E+23	1,036205E+23	2,509932E+23
-2478	7,368347E+22	7,368426E+22	5,181101E+22	5,181021E+22	1,473677E+23	1,036212E+23	2,509890E+23
-2477	7,368370E+22	7,368530E+22	5,181179E+22	5,181222E+22	1,473690E+23	1,036240E+23	2,509930E+23
-2476	7,368571E+22	7,368513E+22	5,181184E+22	5,181192E+22	1,473708E+23	1,036238E+23	2,509946E+23
-2475	7,368236E+22	7,368351E+22	5,181341E+22	5,181209E+22	1,473659E+23	1,036255E+23	2,509914E+23
-2474	7,368517E+22	7,368430E+22	5,181338E+22	5,181424E+22	1,473695E+23	1,036276E+23	2,509971E+23
-2473	7,368443E+22	7,368357E+22	5,181376E+22	5,181334E+22	1,473680E+23	1,036271E+23	2,509951E+23
-2472	7,368174E+22	7,368412E+22	5,181405E+22	5,181413E+22	1,473659E+23	1,036282E+23	2,509940E+23
-2471	7,368579E+22	7,368479E+22	5,181311E+22	5,181492E+22	1,473706E+23	1,036280E+23	2,509986E+23
-2470	7,368341E+22	7,368316E+22	5,181378E+22	5,181279E+22	1,473666E+23	1,036266E+23	2,509931E+23
-2469	7,368328E+22	7,368424E+22	5,181393E+22	5,181315E+22	1,473675E+23	1,036271E+23	2,509946E+23
-2468	7,368635E+22	7,368484E+22	5,181267E+22	5,181254E+22	1,473712E+23	1,036252E+23	2,509964E+23
-2467	7,368268E+22	7,368369E+22	5,181283E+22	5,181146E+22	1,473664E+23	1,036243E+23	2,509906E+23
-2466	7,368416E+22	7,368506E+22	5,181200E+22	5,181284E+22	1,473692E+23	1,036248E+23	2,509941E+23
-2465	7,368458E+22	7,368450E+22	5,181139E+22	5,181137E+22	1,473691E+23	1,036228E+23	2,509918E+23
-2464	7,368190E+22	7,368421E+22	5,181146E+22	5,181077E+22	1,473661E+23	1,036222E+23	2,509883E+23
-2463	7,368617E+22	7,368465E+22	5,181073E+22	5,181177E+22	1,473708E+23	1,036225E+23	2,509933E+23
-2462	7,368472E+22	7,368312E+22	5,181110E+22	5,181023E+22	1,473678E+23	1,036213E+23	2,509892E+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							
-2461	7,368297E+22	7,368446E+22	5,181156E+22	5,181118E+22	1,473674E+23	1,036227E+23	2,509902E+23
-2460	7,368610E+22	7,368554E+22	5,181099E+22	5,181227E+22	1,473716E+23	1,036233E+23	2,509949E+23
-2459	7,368290E+22	7,368368E+22	5,181213E+22	5,181152E+22	1,473666E+23	1,036236E+23	2,509902E+23
-2458	7,368348E+22	7,368460E+22	5,181316E+22	5,181327E+22	1,473681E+23	1,036264E+23	2,509945E+23
-2457	7,368524E+22	7,368402E+22	5,181356E+22	5,181336E+22	1,473693E+23	1,036269E+23	2,509962E+23
-2456	7,368184E+22	7,368326E+22	5,181456E+22	5,181335E+22	1,473651E+23	1,036279E+23	2,509930E+23
-2455	7,368464E+22	7,368432E+22	5,181454E+22	5,181571E+22	1,473690E+23	1,036302E+23	2,509992E+23
-2454	7,368391E+22	7,368290E+22	5,181469E+22	5,181495E+22	1,473668E+23	1,036296E+23	2,509965E+23
-2453	7,368140E+22	7,368361E+22	5,181531E+22	5,181489E+22	1,473650E+23	1,036302E+23	2,509952E+23
-2452	7,368543E+22	7,368456E+22	5,181463E+22	5,181559E+22	1,473700E+23	1,036302E+23	2,510002E+23
-2451	7,368358E+22	7,368243E+22	5,181482E+22	5,181350E+22	1,473660E+23	1,036283E+23	2,509943E+23
-2450	7,368295E+22	7,368398E+22	5,181485E+22	5,181411E+22	1,473669E+23	1,036290E+23	2,509959E+23
-2449	7,368518E+22	7,368449E+22	5,181369E+22	5,181416E+22	1,473697E+23	1,036278E+23	2,509975E+23
-2448	7,368151E+22	7,368357E+22	5,181341E+22	5,181259E+22	1,473651E+23	1,036260E+23	2,509911E+23
-2447	7,368361E+22	7,368461E+22	5,181297E+22	5,181375E+22	1,473682E+23	1,036267E+23	2,509949E+23
-2446	7,368462E+22	7,368308E+22	5,181228E+22	5,181231E+22	1,473677E+23	1,036246E+23	2,509923E+23
-2445	7,368210E+22	7,368328E+22	5,181254E+22	5,181129E+22	1,473654E+23	1,036238E+23	2,509892E+23
-2444	7,368582E+22	7,368471E+22	5,181187E+22	5,181279E+22	1,473705E+23	1,036247E+23	2,509952E+23
-2443	7,368440E+22	7,368304E+22	5,181180E+22	5,181154E+22	1,473674E+23	1,036233E+23	2,509908E+23
-2442	7,368234E+22	7,368455E+22	5,181264E+22	5,181242E+22	1,473669E+23	1,036251E+23	2,509920E+23
-2441	7,368506E+22	7,368501E+22	5,181273E+22	5,181371E+22	1,473701E+23	1,036264E+23	2,509965E+23
-2440	7,368222E+22	7,368322E+22	5,181374E+22	5,181253E+22	1,473654E+23	1,036263E+23	2,509917E+23
-2439	7,368325E+22	7,368388E+22	5,181493E+22	5,181456E+22	1,473671E+23	1,036295E+23	2,509966E+23
-2438	7,368476E+22	7,368276E+22	5,181482E+22	5,181524E+22	1,473675E+23	1,036301E+23	2,509976E+23
-2437	7,368125E+22	7,368267E+22	5,181564E+22	5,181489E+22	1,473639E+23	1,036305E+23	2,509945E+23
-2436	7,368389E+22	7,368419E+22	5,181566E+22	5,181711E+22	1,473681E+23	1,036328E+23	2,510009E+23
-2435	7,368389E+22	7,368231E+22	5,181553E+22	5,181592E+22	1,473662E+23	1,036315E+23	2,509976E+23
-2434	7,368165E+22	7,368324E+22	5,181644E+22	5,181540E+22	1,473649E+23	1,036318E+23	2,509967E+23
-2433	7,368493E+22	7,368401E+22	5,181610E+22	5,181649E+22	1,473689E+23	1,036326E+23	2,510015E+23
-2432	7,368273E+22	7,368269E+22	5,181579E+22	5,181442E+22	1,473654E+23	1,036302E+23	2,509956E+23
-2431	7,368205E+22	7,368406E+22	5,181584E+22	5,181536E+22	1,473661E+23	1,036312E+23	2,509973E+23
-2430	7,368413E+22	7,368356E+22	5,181450E+22	5,181566E+22	1,473677E+23	1,036302E+23	2,509978E+23
-2429	7,368109E+22	7,368270E+22	5,181442E+22	5,181337E+22	1,473638E+23	1,036278E+23	2,509916E+23
-2428	7,368350E+22	7,368388E+22	5,181414E+22	5,181444E+22	1,473674E+23	1,036286E+23	2,509960E+23
-2427	7,368508E+22	7,368218E+22	5,181299E+22	5,181315E+22	1,473673E+23	1,036261E+23	2,509934E+23
-2426	7,368210E+22	7,368316E+22	5,181327E+22	5,181224E+22	1,473653E+23	1,036255E+23	2,509908E+23
-2425	7,368474E+22	7,368470E+22	5,181300E+22	5,181426E+22	1,473694E+23	1,036273E+23	2,509967E+23
-2424	7,368331E+22	7,368331E+22	5,181286E+22	5,181265E+22	1,473666E+23	1,036255E+23	2,509921E+23
-2423	7,368173E+22	7,368419E+22	5,181429E+22	5,181349E+22	1,473659E+23	1,036278E+23	2,509937E+23
-2422	7,368461E+22	7,368362E+22	5,181436E+22	5,181508E+22	1,473682E+23	1,036294E+23	2,509977E+23
-2421	7,368203E+22	7,368216E+22	5,181535E+22	5,181370E+22	1,473642E+23	1,036290E+23	2,509932E+23
-2420	7,368266E+22	7,368356E+22	5,181635E+22	5,181620E+22	1,473662E+23	1,036325E+23	2,509988E+23
-2419	7,368447E+22	7,368232E+22	5,181559E+22	5,181699E+22	1,473668E+23	1,036326E+23	2,509994E+23
-2418	7,368090E+22	7,368256E+22	5,181658E+22	5,181614E+22	1,473635E+23	1,036327E+23	2,509962E+23
-2417	7,368326E+22	7,368387E+22	5,181714E+22	5,181829E+22	1,473671E+23	1,036354E+23	2,510026E+23
-2416	7,368355E+22	7,368215E+22	5,181680E+22	5,181647E+22	1,473657E+23	1,036333E+23	2,509990E+23
-2415	7,368137E+22	7,368292E+22	5,181792E+22	5,181628E+22	1,473643E+23	1,036342E+23	2,509985E+23
-2414	7,368399E+22	7,368319E+22	5,181716E+22	5,181800E+22	1,473672E+23	1,036352E+23	2,510023E+23
-2413	7,368167E+22	7,368212E+22	5,181670E+22	5,181568E+22	1,473638E+23	1,036324E+23	2,509962E+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							
-2412	7,368111E+22	7,368357E+22	5,181679E+22	5,181654E+22	1,473647E+23	1,036333E+23	2,509980E+23
-2411	7,368420E+22	7,368241E+22	5,181504E+22	5,181650E+22	1,473666E+23	1,036315E+23	2,509981E+23
-2410	7,368161E+22	7,368193E+22	5,181512E+22	5,181377E+22	1,473635E+23	1,036289E+23	2,509924E+23
-2409	7,368341E+22	7,368346E+22	5,181517E+22	5,181529E+22	1,473669E+23	1,036305E+23	2,509973E+23
-2408	7,368454E+22	7,368271E+22	5,181374E+22	5,181393E+22	1,473673E+23	1,036277E+23	2,509949E+23
-2407	7,368144E+22	7,368364E+22	5,181448E+22	5,181343E+22	1,473651E+23	1,036279E+23	2,509930E+23
-2406	7,368357E+22	7,368415E+22	5,181442E+22	5,181572E+22	1,473677E+23	1,036301E+23	2,509979E+23
-2405	7,368260E+22	7,368261E+22	5,181461E+22	5,181373E+22	1,473652E+23	1,036283E+23	2,509936E+23
-2404	7,368126E+22	7,368331E+22	5,181615E+22	5,181478E+22	1,473646E+23	1,036309E+23	2,509955E+23
-2403	7,368454E+22	7,368239E+22	5,181554E+22	5,181674E+22	1,473669E+23	1,036323E+23	2,509992E+23
-2402	7,368183E+22	7,368166E+22	5,181626E+22	5,181537E+22	1,473635E+23	1,036316E+23	2,509951E+23
-2401	7,368171E+22	7,368319E+22	5,181737E+22	5,181803E+22	1,473649E+23	1,036354E+23	2,510003E+23
-2400	7,368374E+22	7,368242E+22	5,181652E+22	5,181805E+22	1,473662E+23	1,036346E+23	2,510007E+23
-2399	7,368088E+22	7,368232E+22	5,181800E+22	5,181690E+22	1,473632E+23	1,036349E+23	2,509981E+23
-2398	7,368286E+22	7,368286E+22	5,181864E+22	5,181918E+22	1,473657E+23	1,036378E+23	2,510035E+23
-2397	7,368315E+22	7,368169E+22	5,181826E+22	5,181731E+22	1,473648E+23	1,036356E+23	2,510004E+23
-2396	7,368046E+22	7,368278E+22	5,181921E+22	5,181758E+22	1,473632E+23	1,036368E+23	2,510000E+23
-2395	7,368327E+22	7,368258E+22	5,181780E+22	5,181947E+22	1,473658E+23	1,036373E+23	2,510031E+23
-2394	7,368129E+22	7,368156E+22	5,181742E+22	5,181667E+22	1,473629E+23	1,036341E+23	2,509969E+23
-2393	7,368066E+22	7,368280E+22	5,181783E+22	5,181749E+22	1,473635E+23	1,036353E+23	2,509988E+23
-2392	7,368423E+22	7,368206E+22	5,181587E+22	5,181693E+22	1,473663E+23	1,036328E+23	2,509991E+23
-2391	7,368179E+22	7,368179E+22	5,181613E+22	5,181456E+22	1,473636E+23	1,036307E+23	2,509943E+23
-2390	7,368259E+22	7,368314E+22	5,181605E+22	5,181662E+22	1,473657E+23	1,036327E+23	2,509984E+23
-2389	7,368359E+22	7,368269E+22	5,181479E+22	5,181507E+22	1,473663E+23	1,036299E+23	2,509961E+23
-2388	7,368047E+22	7,368338E+22	5,181597E+22	5,181467E+22	1,473638E+23	1,036306E+23	2,509945E+23
-2387	7,368327E+22	7,368303E+22	5,181565E+22	5,181691E+22	1,473663E+23	1,036326E+23	2,509989E+23
-2386	7,368262E+22	7,368157E+22	5,181593E+22	5,181478E+22	1,473642E+23	1,036307E+23	2,509949E+23
-2385	7,368078E+22	7,368258E+22	5,181751E+22	5,181641E+22	1,473634E+23	1,036339E+23	2,509973E+23
-2384	7,368393E+22	7,368236E+22	5,181637E+22	5,181812E+22	1,473663E+23	1,036345E+23	2,510008E+23
-2383	7,368140E+22	7,368172E+22	5,181734E+22	5,181685E+22	1,473631E+23	1,036342E+23	2,509973E+23
-2382	7,368096E+22	7,368264E+22	5,181865E+22	5,181941E+22	1,473636E+23	1,036381E+23	2,510017E+23
-2381	7,368340E+22	7,368193E+22	5,181816E+22	5,181879E+22	1,473653E+23	1,036369E+23	2,510023E+23
-2380	7,368060E+22	7,368179E+22	5,181990E+22	5,181784E+22	1,473624E+23	1,036377E+23	2,510001E+23
-2379	7,368251E+22	7,368198E+22	5,181984E+22	5,182049E+22	1,473645E+23	1,036403E+23	2,510048E+23
-2378	7,368247E+22	7,368127E+22	5,181918E+22	5,181872E+22	1,473637E+23	1,036379E+23	2,510016E+23
-2377	7,367928E+22	7,368227E+22	5,182011E+22	5,181923E+22	1,473616E+23	1,036393E+23	2,510009E+23
-2376	7,368256E+22	7,368221E+22	5,181844E+22	5,182031E+22	1,473648E+23	1,036388E+23	2,510035E+23
-2375	7,368155E+22	7,368105E+22	5,181833E+22	5,181733E+22	1,473626E+23	1,036357E+23	2,509983E+23
-2374	7,368064E+22	7,368189E+22	5,181875E+22	5,181823E+22	1,473625E+23	1,036370E+23	2,509995E+23
-2373	7,368407E+22	7,368200E+22	5,181686E+22	5,181758E+22	1,473661E+23	1,036344E+23	2,510005E+23
-2372	7,368117E+22	7,368212E+22	5,181727E+22	5,181566E+22	1,473633E+23	1,036329E+23	2,509962E+23
-2371	7,368178E+22	7,368286E+22	5,181692E+22	5,181790E+22	1,473646E+23	1,036348E+23	2,509995E+23
-2370	7,368306E+22	7,368231E+22	5,181599E+22	5,181613E+22	1,473654E+23	1,036321E+23	2,509975E+23
-2369	7,367980E+22	7,368240E+22	5,181750E+22	5,181592E+22	1,473622E+23	1,036334E+23	2,509956E+23
-2368	7,368290E+22	7,368226E+22	5,181690E+22	5,181790E+22	1,473652E+23	1,036348E+23	2,510000E+23
-2367	7,368261E+22	7,368103E+22	5,181709E+22	5,181629E+22	1,473636E+23	1,036334E+23	2,509970E+23
-2366	7,367987E+22	7,368186E+22	5,181842E+22	5,181824E+22	1,473617E+23	1,036367E+23	2,509984E+23
-2365	7,368322E+22	7,368216E+22	5,181745E+22	5,181946E+22	1,473654E+23	1,036369E+23	2,510023E+23
-2364	7,368098E+22	7,368141E+22	5,181886E+22	5,181795E+22	1,473624E+23	1,036368E+23	2,509992E+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							
-2363	7,368094E+22	7,368174E+22	5,182000E+22	5,182031E+22	1,473627E+23	1,036403E+23	2,510030E+23
-2362	7,368347E+22	7,368132E+22	5,181964E+22	5,181963E+22	1,473648E+23	1,036393E+23	2,510041E+23
-2361	7,367978E+22	7,368143E+22	5,182139E+22	5,181937E+22	1,473612E+23	1,036408E+23	2,510020E+23
-2360	7,368140E+22	7,368206E+22	5,182079E+22	5,182182E+22	1,473635E+23	1,036426E+23	2,510061E+23
-2359	7,368181E+22	7,368112E+22	5,182015E+22	5,182021E+22	1,473629E+23	1,036404E+23	2,510033E+23
-2358	7,367849E+22	7,368138E+22	5,182108E+22	5,182052E+22	1,473599E+23	1,036416E+23	2,510015E+23
-2357	7,368252E+22	7,368149E+22	5,181952E+22	5,182090E+22	1,473640E+23	1,036404E+23	2,510044E+23
-2356	7,368172E+22	7,368054E+22	5,181958E+22	5,181804E+22	1,473623E+23	1,036376E+23	2,509999E+23
-2355	7,368061E+22	7,368137E+22	5,181941E+22	5,181924E+22	1,473620E+23	1,036386E+23	2,510006E+23
-2354	7,368354E+22	7,368192E+22	5,181754E+22	5,181856E+22	1,473655E+23	1,036361E+23	2,510016E+23
-2353	7,368006E+22	7,368192E+22	5,181832E+22	5,181701E+22	1,473620E+23	1,036353E+23	2,509973E+23
-2352	7,368096E+22	7,368244E+22	5,181792E+22	5,181859E+22	1,473634E+23	1,036365E+23	2,509999E+23
-2351	7,368299E+22	7,368153E+22	5,181729E+22	5,181704E+22	1,473645E+23	1,036343E+23	2,509989E+23
-2350	7,367942E+22	7,368122E+22	5,181874E+22	5,181721E+22	1,473606E+23	1,036359E+23	2,509966E+23
-2349	7,368253E+22	7,368178E+22	5,181803E+22	5,181913E+22	1,473643E+23	1,036372E+23	2,510015E+23
-2348	7,368209E+22	7,368099E+22	5,181834E+22	5,181784E+22	1,473631E+23	1,036362E+23	2,509993E+23
-2347	7,367943E+22	7,368140E+22	5,181937E+22	5,181970E+22	1,473608E+23	1,036391E+23	2,509999E+23
-2346	7,368296E+22	7,368178E+22	5,181886E+22	5,182046E+22	1,473647E+23	1,036393E+23	2,510041E+23
-2345	7,368054E+22	7,368088E+22	5,182068E+22	5,181918E+22	1,473614E+23	1,036399E+23	2,510013E+23
-2344	7,368042E+22	7,368135E+22	5,182153E+22	5,182127E+22	1,473618E+23	1,036428E+23	2,510046E+23
-2343	7,368299E+22	7,368112E+22	5,182098E+22	5,182127E+22	1,473641E+23	1,036423E+23	2,510064E+23
-2342	7,367847E+22	7,368073E+22	5,182242E+22	5,182128E+22	1,473592E+23	1,036437E+23	2,510029E+23
-2341	7,368046E+22	7,368154E+22	5,182180E+22	5,182312E+22	1,473620E+23	1,036449E+23	2,510069E+23
-2340	7,368159E+22	7,368045E+22	5,182137E+22	5,182118E+22	1,473620E+23	1,036425E+23	2,510046E+23
-2339	7,367878E+22	7,368025E+22	5,182184E+22	5,182118E+22	1,473590E+23	1,036430E+23	2,510021E+23
-2338	7,368295E+22	7,368096E+22	5,182040E+22	5,182139E+22	1,473639E+23	1,036418E+23	2,510057E+23
-2337	7,368128E+22	7,368052E+22	5,182046E+22	5,181904E+22	1,473618E+23	1,036395E+23	2,510013E+23
-2336	7,367968E+22	7,368171E+22	5,182011E+22	5,181997E+22	1,473614E+23	1,036401E+23	2,510015E+23
-2335	7,368291E+22	7,368205E+22	5,181854E+22	5,181963E+22	1,473650E+23	1,036382E+23	2,510031E+23
-2334	7,367903E+22	7,368103E+22	5,181961E+22	5,181818E+22	1,473601E+23	1,036378E+23	2,509978E+23
-2333	7,368052E+22	7,368157E+22	5,181938E+22	5,181943E+22	1,473621E+23	1,036388E+23	2,510009E+23
-2332	7,368285E+22	7,368068E+22	5,181880E+22	5,181830E+22	1,473635E+23	1,036371E+23	2,510006E+23
-2331	7,367913E+22	7,368035E+22	5,181947E+22	5,181883E+22	1,473595E+23	1,036383E+23	2,509978E+23
-2330	7,368213E+22	7,368142E+22	5,181883E+22	5,182059E+22	1,473635E+23	1,036394E+23	2,510030E+23
-2329	7,368134E+22	7,368077E+22	5,181949E+22	5,181937E+22	1,473621E+23	1,036389E+23	2,510010E+23
-2328	7,367902E+22	7,368117E+22	5,182067E+22	5,182045E+22	1,473602E+23	1,036411E+23	2,510013E+23
-2327	7,368304E+22	7,368144E+22	5,182048E+22	5,182144E+22	1,473645E+23	1,036419E+23	2,510064E+23
-2326	7,367984E+22	7,368017E+22	5,182237E+22	5,182066E+22	1,473600E+23	1,036430E+23	2,510030E+23
-2325	7,367950E+22	7,368114E+22	5,182300E+22	5,182271E+22	1,473606E+23	1,036457E+23	2,510063E+23
-2324	7,368203E+22	7,368090E+22	5,182243E+22	5,182299E+22	1,473629E+23	1,036454E+23	2,510083E+23
-2323	7,367792E+22	7,367984E+22	5,182330E+22	5,182281E+22	1,473578E+23	1,036461E+23	2,510039E+23
-2322	7,368045E+22	7,368053E+22	5,182285E+22	5,182390E+22	1,473610E+23	1,036468E+23	2,510077E+23
-2321	7,368158E+22	7,367971E+22	5,182257E+22	5,182203E+22	1,473613E+23	1,036446E+23	2,510059E+23
-2320	7,367882E+22	7,367993E+22	5,182266E+22	5,182163E+22	1,473587E+23	1,036443E+23	2,510030E+23
-2319	7,368264E+22	7,368115E+22	5,182113E+22	5,182240E+22	1,473638E+23	1,036435E+23	2,510073E+23
-2318	7,367999E+22	7,368037E+22	5,182129E+22	5,182038E+22	1,473604E+23	1,036417E+23	2,510020E+23
-2317	7,367859E+22	7,368146E+22	5,182118E+22	5,182080E+22	1,473601E+23	1,036420E+23	2,510020E+23
-2316	7,368236E+22	7,368141E+22	5,182001E+22	5,182050E+22	1,473638E+23	1,036405E+23	2,510043E+23
-2315	7,367900E+22	7,367971E+22	5,182062E+22	5,181920E+22	1,473587E+23	1,036398E+23	2,509985E+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							
-2314	7,368059E+22	7,368063E+22	5,182045E+22	5,182046E+22	1,473612E+23	1,036409E+23	2,510021E+23
-2313	7,368231E+22	7,368048E+22	5,181980E+22	5,181993E+22	1,473628E+23	1,036397E+23	2,510025E+23
-2312	7,367851E+22	7,368047E+22	5,182023E+22	5,181999E+22	1,473590E+23	1,036402E+23	2,509992E+23
-2311	7,368184E+22	7,368157E+22	5,181996E+22	5,182186E+22	1,473634E+23	1,036418E+23	2,510052E+23
-2310	7,368064E+22	7,368020E+22	5,182111E+22	5,182059E+22	1,473608E+23	1,036417E+23	2,510025E+23
-2309	7,367860E+22	7,368065E+22	5,182259E+22	5,182136E+22	1,473593E+23	1,036439E+23	2,510032E+23
-2308	7,368258E+22	7,368095E+22	5,182248E+22	5,182290E+22	1,473635E+23	1,036454E+23	2,510089E+23
-2307	7,367898E+22	7,367928E+22	5,182351E+22	5,182255E+22	1,473583E+23	1,036461E+23	2,510043E+23
-2306	7,367872E+22	7,368037E+22	5,182407E+22	5,182433E+22	1,473591E+23	1,036484E+23	2,510075E+23
-2305	7,368129E+22	7,368012E+22	5,182351E+22	5,182447E+22	1,473614E+23	1,036480E+23	2,510094E+23
-2304	7,367783E+22	7,367908E+22	5,182413E+22	5,182336E+22	1,473569E+23	1,036475E+23	2,510044E+23
-2303	7,368096E+22	7,368015E+22	5,182375E+22	5,182456E+22	1,473611E+23	1,036483E+23	2,510094E+23
-2302	7,368113E+22	7,367937E+22	5,182356E+22	5,182299E+22	1,473605E+23	1,036465E+23	2,510070E+23
-2301	7,367802E+22	7,368029E+22	5,182365E+22	5,182246E+22	1,473583E+23	1,036461E+23	2,510044E+23
-2300	7,368166E+22	7,368136E+22	5,182241E+22	5,182349E+22	1,473630E+23	1,036459E+23	2,510089E+23
-2299	7,367912E+22	7,367968E+22	5,182227E+22	5,182156E+22	1,473588E+23	1,036438E+23	2,510026E+23
-2298	7,367826E+22	7,368039E+22	5,182244E+22	5,182162E+22	1,473586E+23	1,036441E+23	2,510027E+23
-2297	7,368203E+22	7,368042E+22	5,182132E+22	5,182169E+22	1,473625E+23	1,036430E+23	2,510055E+23
-2296	7,367888E+22	7,367907E+22	5,182138E+22	5,182022E+22	1,473580E+23	1,036416E+23	2,509996E+23
-2295	7,368042E+22	7,368055E+22	5,182103E+22	5,182194E+22	1,473610E+23	1,036430E+23	2,510039E+23
-2294	7,368134E+22	7,368022E+22	5,182070E+22	5,182150E+22	1,473616E+23	1,036422E+23	2,510038E+23
-2293	7,367792E+22	7,368035E+22	5,182155E+22	5,182085E+22	1,473583E+23	1,036424E+23	2,510007E+23
-2292	7,368154E+22	7,368118E+22	5,182187E+22	5,182269E+22	1,473627E+23	1,036446E+23	2,510073E+23
-2291	7,368049E+22	7,367927E+22	5,182268E+22	5,182181E+22	1,473598E+23	1,036445E+23	2,510043E+23
-2290	7,367823E+22	7,367981E+22	5,182418E+22	5,182267E+22	1,473580E+23	1,036468E+23	2,510049E+23
-2289	7,368143E+22	7,368064E+22	5,182389E+22	5,182481E+22	1,473621E+23	1,036487E+23	2,510108E+23
-2288	7,367818E+22	7,367889E+22	5,182446E+22	5,182402E+22	1,473571E+23	1,036485E+23	2,510056E+23
-2287	7,367841E+22	7,367992E+22	5,182504E+22	5,182570E+22	1,473583E+23	1,036507E+23	2,510091E+23
-2286	7,368081E+22	7,367931E+22	5,182478E+22	5,182562E+22	1,473601E+23	1,036504E+23	2,510105E+23
-2285	7,367782E+22	7,367866E+22	5,182542E+22	5,182397E+22	1,473565E+23	1,036494E+23	2,510059E+23
-2284	7,368070E+22	7,368010E+22	5,182510E+22	5,182552E+22	1,473608E+23	1,036506E+23	2,510114E+23
-2283	7,368034E+22	7,367911E+22	5,182426E+22	5,182433E+22	1,473595E+23	1,036486E+23	2,510080E+23
-2282	7,367718E+22	7,367982E+22	5,182461E+22	5,182351E+22	1,473570E+23	1,036481E+23	2,510051E+23
-2281	7,368068E+22	7,368083E+22	5,182359E+22	5,182456E+22	1,473615E+23	1,036482E+23	2,510097E+23
-2280	7,367893E+22	7,367877E+22	5,182320E+22	5,182213E+22	1,473577E+23	1,036453E+23	2,510030E+23
-2279	7,367857E+22	7,367971E+22	5,182329E+22	5,182257E+22	1,473583E+23	1,036459E+23	2,510041E+23
-2278	7,368151E+22	7,367986E+22	5,182223E+22	5,182303E+22	1,473614E+23	1,036453E+23	2,510066E+23
-2277	7,367831E+22	7,367924E+22	5,182224E+22	5,182132E+22	1,473576E+23	1,036436E+23	2,510011E+23
-2276	7,367992E+22	7,368076E+22	5,182230E+22	5,182313E+22	1,473607E+23	1,036454E+23	2,510061E+23
-2275	7,368079E+22	7,367965E+22	5,182187E+22	5,182264E+22	1,473604E+23	1,036445E+23	2,510050E+23
-2274	7,367776E+22	7,367946E+22	5,182331E+22	5,182172E+22	1,473572E+23	1,036450E+23	2,510023E+23
-2273	7,368098E+22	7,368045E+22	5,182373E+22	5,182400E+22	1,473614E+23	1,036477E+23	2,510092E+23
-2272	7,367982E+22	7,367864E+22	5,182395E+22	5,182329E+22	1,473585E+23	1,036472E+23	2,510057E+23
-2271	7,367752E+22	7,367955E+22	5,182509E+22	5,182465E+22	1,473571E+23	1,036497E+23	2,510068E+23
-2270	7,368013E+22	7,367992E+22	5,182497E+22	5,182671E+22	1,473600E+23	1,036517E+23	2,510117E+23
-2269	7,367768E+22	7,367834E+22	5,182564E+22	5,182504E+22	1,473560E+23	1,036507E+23	2,510067E+23
-2268	7,367856E+22	7,367934E+22	5,182651E+22	5,182649E+22	1,473579E+23	1,036530E+23	2,510109E+23
-2267	7,368086E+22	7,367854E+22	5,182585E+22	5,182657E+22	1,473594E+23	1,036524E+23	2,510118E+23
-2266	7,367768E+22	7,367833E+22	5,182660E+22	5,182486E+22	1,473560E+23	1,036515E+23	2,510075E+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	7,367965E+22	7,368027E+22	5,182626E+22	5,182676E+22	1,473599E+23	1,036530E+23	2,510129E+23
-2264	7,367951E+22	7,367899E+22	5,182513E+22	5,182530E+22	1,473585E+23	1,036504E+23	2,510089E+23
-2263	7,367680E+22	7,367939E+22	5,182553E+22	5,182452E+22	1,473562E+23	1,036501E+23	2,510062E+23
-2262	7,367998E+22	7,367982E+22	5,182486E+22	5,182562E+22	1,473598E+23	1,036505E+23	2,510103E+23
-2261	7,367883E+22	7,367807E+22	5,182434E+22	5,182294E+22	1,473569E+23	1,036473E+23	2,510042E+23
-2260	7,367833E+22	7,367940E+22	5,182432E+22	5,182378E+22	1,473577E+23	1,036481E+23	2,510058E+23
-2259	7,368089E+22	7,367945E+22	5,182278E+22	5,182453E+22	1,473603E+23	1,036473E+23	2,510077E+23
-2258	7,367794E+22	7,367869E+22	5,182317E+22	5,182231E+22	1,473566E+23	1,036455E+23	2,510021E+23
-2257	7,367922E+22	7,368040E+22	5,182368E+22	5,182403E+22	1,473596E+23	1,036477E+23	2,510073E+23
-2256	7,368070E+22	7,367905E+22	5,182316E+22	5,182335E+22	1,473598E+23	1,036465E+23	2,510063E+23
-2255	7,367770E+22	7,367899E+22	5,182463E+22	5,182302E+22	1,473567E+23	1,036477E+23	2,510043E+23
-2254	7,367975E+22	7,368002E+22	5,182520E+22	5,182584E+22	1,473598E+23	1,036510E+23	2,510108E+23
-2253	7,367879E+22	7,367852E+22	5,182524E+22	5,182493E+22	1,473573E+23	1,036502E+23	2,510075E+23
-2252	7,367683E+22	7,367922E+22	5,182653E+22	5,182626E+22	1,473560E+23	1,036528E+23	2,510088E+23
-2251	7,367972E+22	7,367894E+22	5,182614E+22	5,182808E+22	1,473587E+23	1,036542E+23	2,510129E+23
-2250	7,367798E+22	7,367726E+22	5,182712E+22	5,182587E+22	1,473552E+23	1,036530E+23	2,510082E+23
-2249	7,367840E+22	7,367893E+22	5,182799E+22	5,182752E+22	1,473573E+23	1,036555E+23	2,510128E+23
-2248	7,368049E+22	7,367841E+22	5,182675E+22	5,182763E+22	1,473589E+23	1,036544E+23	2,510133E+23
-2247	7,367705E+22	7,367847E+22	5,182734E+22	5,182629E+22	1,473555E+23	1,036536E+23	2,510092E+23
-2246	7,367823E+22	7,367984E+22	5,182738E+22	5,182806E+22	1,473581E+23	1,036554E+23	2,510135E+23
-2245	7,367882E+22	7,367844E+22	5,182632E+22	5,182599E+22	1,473573E+23	1,036523E+23	2,510096E+23
-2244	7,367684E+22	7,367862E+22	5,182684E+22	5,182531E+22	1,473555E+23	1,036521E+23	2,510076E+23
-2243	7,367984E+22	7,367872E+22	5,182562E+22	5,182667E+22	1,473586E+23	1,036523E+23	2,510109E+23
-2242	7,367874E+22	7,367750E+22	5,182513E+22	5,182398E+22	1,473562E+23	1,036491E+23	2,510053E+23
-2241	7,367765E+22	7,367949E+22	5,182513E+22	5,182498E+22	1,473571E+23	1,036501E+23	2,510072E+23
-2240	7,368038E+22	7,367931E+22	5,182351E+22	5,182540E+22	1,473597E+23	1,036489E+23	2,510086E+23
-2239	7,367781E+22	7,367852E+22	5,182424E+22	5,182329E+22	1,473563E+23	1,036475E+23	2,510039E+23
-2238	7,367844E+22	7,367966E+22	5,182538E+22	5,182511E+22	1,473581E+23	1,036505E+23	2,510086E+23
-2237	7,368015E+22	7,367860E+22	5,182479E+22	5,182453E+22	1,473587E+23	1,036493E+23	2,510081E+23
-2236	7,367701E+22	7,367863E+22	5,182614E+22	5,182480E+22	1,473556E+23	1,036509E+23	2,510066E+23
-2235	7,367863E+22	7,367917E+22	5,182621E+22	5,182785E+22	1,473578E+23	1,036541E+23	2,510119E+23
-2234	7,367840E+22	7,367746E+22	5,182651E+22	5,182637E+22	1,473559E+23	1,036529E+23	2,510087E+23
-2233	7,367657E+22	7,367848E+22	5,182794E+22	5,182735E+22	1,473550E+23	1,036533E+23	2,510103E+23
-2232	7,368008E+22	7,367820E+22	5,182730E+22	5,182884E+22	1,473583E+23	1,036561E+23	2,510144E+23
-2231	7,367829E+22	7,367715E+22	5,182816E+22	5,182694E+22	1,473554E+23	1,036551E+23	2,510105E+23
-2230	7,367730E+22	7,367902E+22	5,182931E+22	5,182889E+22	1,473563E+23	1,036582E+23	2,510145E+23
-2229	7,367946E+22	7,367874E+22	5,182799E+22	5,182880E+22	1,473582E+23	1,036568E+23	2,510150E+23
-2228	7,367617E+22	7,367827E+22	5,182876E+22	5,182750E+22	1,473544E+23	1,036563E+23	2,510107E+23
-2227	7,367742E+22	7,367875E+22	5,182853E+22	5,182919E+22	1,473562E+23	1,036577E+23	2,510139E+23
-2226	7,367894E+22	7,367699E+22	5,182754E+22	5,182679E+22	1,473559E+23	1,036543E+23	2,510103E+23
-2225	7,367656E+22	7,367789E+22	5,182779E+22	5,182637E+22	1,473545E+23	1,036542E+23	2,510086E+23
-2224	7,367962E+22	7,367838E+22	5,182593E+22	5,182780E+22	1,473580E+23	1,036537E+23	2,510117E+23
-2223	7,367847E+22	7,367756E+22	5,182539E+22	5,182519E+22	1,473560E+23	1,036506E+23	2,510066E+23
-2222	7,367667E+22	7,367925E+22	5,182615E+22	5,182593E+22	1,473559E+23	1,036521E+23	2,510080E+23
-2221	7,368000E+22	7,367907E+22	5,182488E+22	5,182585E+22	1,473591E+23	1,036507E+23	2,510098E+23
-2220	7,367772E+22	7,367808E+22	5,182596E+22	5,182418E+22	1,473558E+23	1,036501E+23	2,510059E+23
-2219	7,367770E+22	7,367884E+22	5,182677E+22	5,182657E+22	1,473565E+23	1,036533E+23	2,510099E+23
-2218	7,367954E+22	7,367787E+22	5,182620E+22	5,182615E+22	1,473574E+23	1,036524E+23	2,510098E+23
-2217	7,367608E+22	7,367829E+22	5,182745E+22	5,182656E+22	1,473544E+23	1,036540E+23	2,510084E+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							
-2216	7,367828E+22	7,367844E+22	5,182722E+22	5,182920E+22	1,473567E+23	1,036564E+23	2,510131E+23
-2215	7,367862E+22	7,367693E+22	5,182762E+22	5,182759E+22	1,473556E+23	1,036552E+23	2,510108E+23
-2214	7,367626E+22	7,367783E+22	5,182956E+22	5,182848E+22	1,473541E+23	1,036580E+23	2,510121E+23
-2213	7,367966E+22	7,367816E+22	5,182878E+22	5,182989E+22	1,473578E+23	1,036587E+23	2,510165E+23
-2212	7,367759E+22	7,367740E+22	5,182955E+22	5,182851E+22	1,473550E+23	1,036581E+23	2,510131E+23
-2211	7,367591E+22	7,367846E+22	5,183033E+22	5,183045E+22	1,473544E+23	1,036608E+23	2,510151E+23
-2210	7,367873E+22	7,367771E+22	5,182927E+22	5,182987E+22	1,473564E+23	1,036591E+23	2,510156E+23
-2209	7,367575E+22	7,367731E+22	5,183002E+22	5,182837E+22	1,473531E+23	1,036584E+23	2,510115E+23
-2208	7,367757E+22	7,367757E+22	5,182928E+22	5,182992E+22	1,473551E+23	1,036592E+23	2,510143E+23
-2207	7,367918E+22	7,367665E+22	5,182799E+22	5,182784E+22	1,473558E+23	1,036558E+23	2,510117E+23
-2206	7,367579E+22	7,367785E+22	5,182849E+22	5,182752E+22	1,473536E+23	1,036560E+23	2,510097E+23
-2205	7,367896E+22	7,367873E+22	5,182673E+22	5,182858E+22	1,473577E+23	1,036553E+23	2,510130E+23
-2204	7,367808E+22	7,367771E+22	5,182664E+22	5,182602E+22	1,473558E+23	1,036527E+23	2,510085E+23
-2203	7,367599E+22	7,367845E+22	5,182757E+22	5,182676E+22	1,473544E+23	1,036543E+23	2,510088E+23
-2202	7,367989E+22	7,367797E+22	5,182663E+22	5,182676E+22	1,473579E+23	1,036534E+23	2,510113E+23
-2201	7,367704E+22	7,367748E+22	5,182753E+22	5,182569E+22	1,473545E+23	1,036532E+23	2,510077E+23
-2200	7,367697E+22	7,367819E+22	5,182766E+22	5,182836E+22	1,473552E+23	1,036560E+23	2,510112E+23
-2199	7,367904E+22	7,367745E+22	5,182692E+22	5,182798E+22	1,473565E+23	1,036549E+23	2,510114E+23
-2198	7,367526E+22	7,367761E+22	5,182872E+22	5,182799E+22	1,473529E+23	1,036567E+23	2,510096E+23
-2197	7,367828E+22	7,367802E+22	5,182862E+22	5,183003E+22	1,473563E+23	1,036587E+23	2,510149E+23
-2196	7,367881E+22	7,367668E+22	5,182920E+22	5,182862E+22	1,473555E+23	1,036578E+23	2,510133E+23
-2195	7,367554E+22	7,367745E+22	5,183094E+22	5,182985E+22	1,473530E+23	1,036608E+23	2,510138E+23
-2194	7,367898E+22	7,367780E+22	5,183025E+22	5,183124E+22	1,473568E+23	1,036615E+23	2,510183E+23
-2193	7,367638E+22	7,367722E+22	5,183102E+22	5,182995E+22	1,473536E+23	1,036610E+23	2,510146E+23
-2192	7,367522E+22	7,367764E+22	5,183138E+22	5,183160E+22	1,473529E+23	1,036630E+23	2,510158E+23
-2191	7,367870E+22	7,367680E+22	5,183018E+22	5,183088E+22	1,473555E+23	1,036611E+23	2,510166E+23
-2190	7,367541E+22	7,367634E+22	5,183116E+22	5,182939E+22	1,473517E+23	1,036606E+23	2,510123E+23
-2189	7,367737E+22	7,367730E+22	5,183005E+22	5,183080E+22	1,473547E+23	1,036609E+23	2,510155E+23
-2188	7,367878E+22	7,367690E+22	5,182869E+22	5,182904E+22	1,473557E+23	1,036577E+23	2,510134E+23
-2187	7,367486E+22	7,367754E+22	5,182920E+22	5,182858E+22	1,473524E+23	1,036578E+23	2,510102E+23
-2186	7,367863E+22	7,367805E+22	5,182801E+22	5,182912E+22	1,473567E+23	1,036571E+23	2,510138E+23
-2185	7,367774E+22	7,367722E+22	5,182819E+22	5,182669E+22	1,473550E+23	1,036549E+23	2,510098E+23
-2184	7,367583E+22	7,367758E+22	5,182874E+22	5,182773E+22	1,473534E+23	1,036565E+23	2,510099E+23
-2183	7,367949E+22	7,367768E+22	5,182758E+22	5,182832E+22	1,473572E+23	1,036559E+23	2,510131E+23
-2182	7,367590E+22	7,367718E+22	5,182872E+22	5,182754E+22	1,473531E+23	1,036563E+23	2,510093E+23
-2181	7,367615E+22	7,367795E+22	5,182879E+22	5,182977E+22	1,473541E+23	1,036586E+23	2,510127E+23
-2180	7,367879E+22	7,367720E+22	5,182832E+22	5,182935E+22	1,473560E+23	1,036577E+23	2,510137E+23
-2179	7,367496E+22	7,367657E+22	5,183014E+22	5,182909E+22	1,473515E+23	1,036592E+23	2,510108E+23
-2178	7,367833E+22	7,367707E+22	5,183033E+22	5,183102E+22	1,473554E+23	1,036614E+23	2,510168E+23
-2177	7,367817E+22	7,367659E+22	5,183077E+22	5,183006E+22	1,473548E+23	1,036608E+23	2,510156E+23
-2176	7,367463E+22	7,367704E+22	5,183196E+22	5,183145E+22	1,473517E+23	1,036634E+23	2,510151E+23
-2175	7,367816E+22	7,367744E+22	5,183122E+22	5,183273E+22	1,473556E+23	1,036639E+23	2,510196E+23
-2174	7,367545E+22	7,367632E+22	5,183242E+22	5,183114E+22	1,473518E+23	1,036636E+23	2,510153E+23
-2173	7,367504E+22	7,367681E+22	5,183260E+22	5,183228E+22	1,473519E+23	1,036649E+23	2,510167E+23
-2172	7,367885E+22	7,367641E+22	5,183126E+22	5,183188E+22	1,473553E+23	1,036631E+23	2,510184E+23
-2171	7,367486E+22	7,367588E+22	5,183190E+22	5,183055E+22	1,473507E+23	1,036624E+23	2,510132E+23
-2170	7,367703E+22	7,367710E+22	5,183094E+22	5,183179E+22	1,473541E+23	1,036627E+23	2,510169E+23
-2169	7,367803E+22	7,367708E+22	5,182980E+22	5,182995E+22	1,473551E+23	1,036597E+23	2,510149E+23
-2168	7,367447E+22	7,367704E+22	5,183021E+22	5,182934E+22	1,473515E+23	1,036596E+23	2,510111E+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							
-2167	7,367852E+22	7,367748E+22	5,182918E+22	5,182992E+22	1,473560E+23	1,036591E+23	2,510151E+23
-2166	7,367701E+22	7,367649E+22	5,182971E+22	5,182797E+22	1,473535E+23	1,036577E+23	2,510112E+23
-2165	7,367510E+22	7,367728E+22	5,182984E+22	5,182919E+22	1,473524E+23	1,036590E+23	2,510114E+23
-2164	7,367870E+22	7,367753E+22	5,182850E+22	5,183010E+22	1,473562E+23	1,036586E+23	2,510148E+23
-2163	7,367492E+22	7,367629E+22	5,182965E+22	5,182907E+22	1,473512E+23	1,036587E+23	2,510099E+23
-2162	7,367621E+22	7,367684E+22	5,183012E+22	5,183066E+22	1,473531E+23	1,036608E+23	2,510138E+23
-2161	7,367876E+22	7,367662E+22	5,182992E+22	5,183018E+22	1,473554E+23	1,036601E+23	2,510155E+23
-2160	7,367501E+22	7,367600E+22	5,183141E+22	5,183019E+22	1,473510E+23	1,036616E+23	2,510126E+23
-2159	7,367790E+22	7,367709E+22	5,183151E+22	5,183241E+22	1,473550E+23	1,036639E+23	2,510189E+23
-2158	7,367685E+22	7,367656E+22	5,183231E+22	5,183177E+22	1,473534E+23	1,036641E+23	2,510175E+23
-2157	7,367360E+22	7,367683E+22	5,183337E+22	5,183277E+22	1,473504E+23	1,036661E+23	2,510166E+23
-2156	7,367757E+22	7,367700E+22	5,183268E+22	5,183403E+22	1,473546E+23	1,036667E+23	2,510213E+23
-2155	7,367500E+22	7,367502E+22	5,183375E+22	5,183232E+22	1,473500E+23	1,036661E+23	2,510161E+23
-2154	7,367517E+22	7,367567E+22	5,183383E+22	5,183330E+22	1,473508E+23	1,036671E+23	2,510180E+23
-2153	7,367836E+22	7,367634E+22	5,183223E+22	5,183314E+22	1,473547E+23	1,036654E+23	2,510201E+23
-2152	7,367438E+22	7,367564E+22	5,183231E+22	5,183175E+22	1,473500E+23	1,036641E+23	2,510141E+23
-2151	7,367659E+22	7,367701E+22	5,183156E+22	5,183262E+22	1,473536E+23	1,036642E+23	2,510178E+23
-2150	7,367740E+22	7,367666E+22	5,183109E+22	5,183067E+22	1,473541E+23	1,036618E+23	2,510158E+23
-2149	7,367419E+22	7,367648E+22	5,183147E+22	5,182987E+22	1,473507E+23	1,036613E+23	2,510120E+23
-2148	7,367813E+22	7,367729E+22	5,183040E+22	5,183107E+22	1,473554E+23	1,036615E+23	2,510169E+23
-2147	7,367603E+22	7,367578E+22	5,183070E+22	5,182952E+22	1,473518E+23	1,036602E+23	2,510120E+23
-2146	7,367449E+22	7,367653E+22	5,183091E+22	5,183059E+22	1,473510E+23	1,036615E+23	2,510125E+23
-2145	7,367805E+22	7,367720E+22	5,182977E+22	5,183138E+22	1,473553E+23	1,036611E+23	2,510164E+23
-2144	7,367492E+22	7,367538E+22	5,183069E+22	5,183010E+22	1,473503E+23	1,036608E+23	2,510111E+23
-2143	7,367649E+22	7,367621E+22	5,183138E+22	5,183156E+22	1,473527E+23	1,036629E+23	2,510156E+23
-2142	7,367826E+22	7,367625E+22	5,183159E+22	5,183153E+22	1,473545E+23	1,036631E+23	2,510176E+23
-2141	7,367416E+22	7,367606E+22	5,183280E+22	5,183170E+22	1,473502E+23	1,036645E+23	2,510147E+23
-2140	7,367674E+22	7,367730E+22	5,183286E+22	5,183421E+22	1,473540E+23	1,036671E+23	2,510211E+23
-2139	7,367557E+22	7,367565E+22	5,183374E+22	5,183339E+22	1,473512E+23	1,036671E+23	2,510183E+23
-2138	7,367338E+22	7,367553E+22	5,183492E+22	5,183386E+22	1,473489E+23	1,036688E+23	2,510177E+23
-2137	7,367741E+22	7,367617E+22	5,183416E+22	5,183504E+22	1,473536E+23	1,036692E+23	2,510228E+23
-2136	7,367511E+22	7,367425E+22	5,183451E+22	5,183354E+22	1,473494E+23	1,036681E+23	2,510174E+23
-2135	7,367508E+22	7,367565E+22	5,183439E+22	5,183446E+22	1,473507E+23	1,036688E+23	2,510196E+23
-2134	7,367744E+22	7,367648E+22	5,183322E+22	5,183432E+22	1,473539E+23	1,036675E+23	2,510215E+23
-2133	7,367379E+22	7,367577E+22	5,183333E+22	5,183245E+22	1,473496E+23	1,036658E+23	2,510153E+23
-2132	7,367617E+22	7,367687E+22	5,183278E+22	5,183325E+22	1,473530E+23	1,036660E+23	2,510191E+23
-2131	7,367675E+22	7,367558E+22	5,183244E+22	5,183156E+22	1,473523E+23	1,036640E+23	2,510163E+23
-2130	7,367396E+22	7,367543E+22	5,183274E+22	5,183099E+22	1,473494E+23	1,036637E+23	2,510131E+23
-2129	7,367715E+22	7,367694E+22	5,183147E+22	5,183256E+22	1,473541E+23	1,036640E+23	2,510181E+23
-2128	7,367544E+22	7,367504E+22	5,183122E+22	5,183111E+22	1,473505E+23	1,036623E+23	2,510128E+23
-2127	7,367437E+22	7,367585E+22	5,183160E+22	5,183164E+22	1,473502E+23	1,036632E+23	2,510135E+23
-2126	7,367780E+22	7,367656E+22	5,183115E+22	5,183229E+22	1,473544E+23	1,036634E+23	2,510178E+23
-2125	7,367503E+22	7,367507E+22	5,183202E+22	5,183085E+22	1,473501E+23	1,036629E+23	2,510130E+23
-2124	7,367610E+22	7,367650E+22	5,183280E+22	5,183284E+22	1,473526E+23	1,036656E+23	2,510182E+23
-2123	7,367704E+22	7,367605E+22	5,183308E+22	5,183331E+22	1,473531E+23	1,036664E+23	2,510195E+23
-2122	7,367324E+22	7,367552E+22	5,183446E+22	5,183337E+22	1,473488E+23	1,036678E+23	2,510166E+23
-2121	7,367564E+22	7,367687E+22	5,183465E+22	5,183571E+22	1,473525E+23	1,036704E+23	2,510229E+23
-2120	7,367537E+22	7,367434E+22	5,183501E+22	5,183478E+22	1,473497E+23	1,036698E+23	2,510195E+23
-2119	7,367363E+22	7,367441E+22	5,183604E+22	5,183500E+22	1,473480E+23	1,036710E+23	2,510191E+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							
-2118	7,367710E+22	7,367565E+22	5,183536E+22	5,183645E+22	1,473528E+23	1,036718E+23	2,510246E+23
-2117	7,367464E+22	7,367428E+22	5,183516E+22	5,183469E+22	1,473489E+23	1,036698E+23	2,510188E+23
-2116	7,367441E+22	7,367603E+22	5,183510E+22	5,183552E+22	1,473504E+23	1,036706E+23	2,510211E+23
-2115	7,367662E+22	7,367585E+22	5,183429E+22	5,183509E+22	1,473525E+23	1,036694E+23	2,510218E+23
-2114	7,367363E+22	7,367479E+22	5,183471E+22	5,183291E+22	1,473484E+23	1,036676E+23	2,510160E+23
-2113	7,367565E+22	7,367638E+22	5,183426E+22	5,183395E+22	1,473520E+23	1,036682E+23	2,510202E+23
-2112	7,367637E+22	7,367477E+22	5,183323E+22	5,183286E+22	1,473511E+23	1,036661E+23	2,510172E+23
-2111	7,367352E+22	7,367500E+22	5,183336E+22	5,183237E+22	1,473485E+23	1,036657E+23	2,510143E+23
-2110	7,367630E+22	7,367661E+22	5,183247E+22	5,183402E+22	1,473529E+23	1,036665E+23	2,510194E+23
-2109	7,367511E+22	7,367477E+22	5,183214E+22	5,183207E+22	1,473499E+23	1,036642E+23	2,510141E+23
-2108	7,367438E+22	7,367574E+22	5,183279E+22	5,183250E+22	1,473501E+23	1,036653E+23	2,510154E+23
-2107	7,367744E+22	7,367577E+22	5,183270E+22	5,183341E+22	1,473532E+23	1,036661E+23	2,510193E+23
-2106	7,367470E+22	7,367461E+22	5,183364E+22	5,183226E+22	1,473493E+23	1,036659E+23	2,510152E+23
-2105	7,367481E+22	7,367659E+22	5,183443E+22	5,183451E+22	1,473514E+23	1,036689E+23	2,510203E+23
-2104	7,367607E+22	7,367530E+22	5,183427E+22	5,183519E+22	1,473514E+23	1,036695E+23	2,510208E+23
-2103	7,367293E+22	7,367445E+22	5,183576E+22	5,183472E+22	1,473474E+23	1,036705E+23	2,510179E+23
-2102	7,367525E+22	7,367572E+22	5,183626E+22	5,183693E+22	1,473510E+23	1,036732E+23	2,510242E+23
-2101	7,367550E+22	7,367369E+22	5,183614E+22	5,183582E+22	1,473492E+23	1,036720E+23	2,510211E+23
-2100	7,367354E+22	7,367453E+22	5,183685E+22	5,183619E+22	1,473481E+23	1,036730E+23	2,510211E+23
-2099	7,367620E+22	7,367544E+22	5,183633E+22	5,183777E+22	1,473516E+23	1,036741E+23	2,510257E+23
-2098	7,367411E+22	7,367416E+22	5,183632E+22	5,183566E+22	1,473483E+23	1,036720E+23	2,510202E+23
-2097	7,367350E+22	7,367597E+22	5,183660E+22	5,183617E+22	1,473495E+23	1,036728E+23	2,510222E+23
-2096	7,367633E+22	7,367486E+22	5,183545E+22	5,183594E+22	1,473512E+23	1,036714E+23	2,510226E+23
-2095	7,367361E+22	7,367373E+22	5,183582E+22	5,183382E+22	1,473473E+23	1,036696E+23	2,510170E+23
-2094	7,367477E+22	7,367579E+22	5,183537E+22	5,183542E+22	1,473506E+23	1,036708E+23	2,510214E+23
-2093	7,367562E+22	7,367455E+22	5,183375E+22	5,183430E+22	1,473502E+23	1,036680E+23	2,510182E+23
-2092	7,367299E+22	7,367500E+22	5,183386E+22	5,183362E+22	1,473480E+23	1,036675E+23	2,510155E+23
-2091	7,367583E+22	7,367575E+22	5,183352E+22	5,183500E+22	1,473516E+23	1,036685E+23	2,510201E+23
-2090	7,367539E+22	7,367401E+22	5,183349E+22	5,183269E+22	1,473494E+23	1,036662E+23	2,510156E+23
-2089	7,367407E+22	7,367565E+22	5,183448E+22	5,183332E+22	1,473497E+23	1,036678E+23	2,510175E+23
-2088	7,367697E+22	7,367537E+22	5,183395E+22	5,183492E+22	1,473523E+23	1,036689E+23	2,510212E+23
-2087	7,367398E+22	7,367428E+22	5,183501E+22	5,183388E+22	1,473483E+23	1,036689E+23	2,510171E+23
-2086	7,367358E+22	7,367619E+22	5,183615E+22	5,183629E+22	1,473498E+23	1,036724E+23	2,510222E+23
-2085	7,367547E+22	7,367454E+22	5,183563E+22	5,183651E+22	1,473500E+23	1,036721E+23	2,510222E+23
-2084	7,367286E+22	7,367378E+22	5,183703E+22	5,183595E+22	1,473466E+23	1,036730E+23	2,510196E+23
-2083	7,367500E+22	7,367453E+22	5,183765E+22	5,183831E+22	1,473495E+23	1,036760E+23	2,510255E+23
-2082	7,367525E+22	7,367323E+22	5,183727E+22	5,183717E+22	1,473485E+23	1,036744E+23	2,510229E+23
-2081	7,367258E+22	7,367486E+22	5,183802E+22	5,183746E+22	1,473474E+23	1,036755E+23	2,510229E+23
-2080	7,367553E+22	7,367493E+22	5,183720E+22	5,183897E+22	1,473505E+23	1,036762E+23	2,510266E+23
-2079	7,367389E+22	7,367343E+22	5,183750E+22	5,183633E+22	1,473473E+23	1,036738E+23	2,510211E+23
-2078	7,367296E+22	7,367524E+22	5,183810E+22	5,183695E+22	1,473482E+23	1,036751E+23	2,510233E+23
-2077	7,367596E+22	7,367436E+22	5,183640E+22	5,183685E+22	1,473503E+23	1,036732E+23	2,510236E+23
-2076	7,367315E+22	7,367377E+22	5,183645E+22	5,183514E+22	1,473469E+23	1,036716E+23	2,510185E+23
-2075	7,367383E+22	7,367519E+22	5,183622E+22	5,183689E+22	1,473490E+23	1,036731E+23	2,510221E+23
-2074	7,367525E+22	7,367415E+22	5,183472E+22	5,183537E+22	1,473494E+23	1,036701E+23	2,510195E+23
-2073	7,367261E+22	7,367485E+22	5,183519E+22	5,183427E+22	1,473475E+23	1,036695E+23	2,510169E+23
-2072	7,367594E+22	7,367484E+22	5,183470E+22	5,183587E+22	1,473508E+23	1,036706E+23	2,510213E+23
-2071	7,367557E+22	7,367333E+22	5,183488E+22	5,183370E+22	1,473489E+23	1,036686E+23	2,510175E+23
-2070	7,367303E+22	7,367542E+22	5,183603E+22	5,183491E+22	1,473484E+23	1,036709E+23	2,510194E+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							
-2069	7,367584E+22	7,367526E+22	5,183506E+22	5,183658E+22	1,473511E+23	1,036716E+23	2,510227E+23
-2068	7,367322E+22	7,367394E+22	5,183611E+22	5,183545E+22	1,473472E+23	1,036716E+23	2,510187E+23
-2067	7,367281E+22	7,367478E+22	5,183771E+22	5,183768E+22	1,473476E+23	1,036754E+23	2,510230E+23
-2066	7,367551E+22	7,367351E+22	5,183713E+22	5,183763E+22	1,473490E+23	1,036748E+23	2,510238E+23
-2065	7,367258E+22	7,367351E+22	5,183849E+22	5,183708E+22	1,473461E+23	1,036756E+23	2,510217E+23
-2064	7,367464E+22	7,367412E+22	5,183855E+22	5,183988E+22	1,473488E+23	1,036784E+23	2,510272E+23
-2063	7,367486E+22	7,367307E+22	5,183834E+22	5,183844E+22	1,473479E+23	1,036768E+23	2,510247E+23
-2062	7,367156E+22	7,367478E+22	5,183953E+22	5,183863E+22	1,473463E+23	1,036782E+23	2,510245E+23
-2061	7,367497E+22	7,367456E+22	5,183845E+22	5,183974E+22	1,473495E+23	1,036782E+23	2,510277E+23
-2060	7,367370E+22	7,367296E+22	5,183868E+22	5,183721E+22	1,473467E+23	1,036759E+23	2,510226E+23
-2059	7,367227E+22	7,367414E+22	5,183940E+22	5,183826E+22	1,473464E+23	1,036777E+23	2,510241E+23
-2058	7,367531E+22	7,367389E+22	5,183725E+22	5,183822E+22	1,473492E+23	1,036755E+23	2,510247E+23
-2057	7,367227E+22	7,367374E+22	5,183730E+22	5,183637E+22	1,473460E+23	1,036737E+23	2,510197E+23
-2056	7,367359E+22	7,367429E+22	5,183682E+22	5,183800E+22	1,473479E+23	1,036748E+23	2,510227E+23
-2055	7,367553E+22	7,367324E+22	5,183575E+22	5,183587E+22	1,473488E+23	1,036716E+23	2,510204E+23
-2054	7,367251E+22	7,367442E+22	5,183667E+22	5,183497E+22	1,473469E+23	1,036716E+23	2,510186E+23
-2053	7,367564E+22	7,367469E+22	5,183578E+22	5,183672E+22	1,473503E+23	1,036725E+23	2,510228E+23
-2052	7,367483E+22	7,367369E+22	5,183590E+22	5,183516E+22	1,473485E+23	1,036711E+23	2,510196E+23
-2051	7,367167E+22	7,367488E+22	5,183753E+22	5,183672E+22	1,473465E+23	1,036742E+23	2,510208E+23
-2050	7,367485E+22	7,367468E+22	5,183658E+22	5,183809E+22	1,473495E+23	1,036747E+23	2,510242E+23
-2049	7,367259E+22	7,367335E+22	5,183785E+22	5,183670E+22	1,473459E+23	1,036746E+23	2,510205E+23
-2048	7,367289E+22	7,367330E+22	5,183901E+22	5,183913E+22	1,473462E+23	1,036781E+23	2,510243E+23
-2047	7,367567E+22	7,367258E+22	5,183843E+22	5,183899E+22	1,473483E+23	1,036774E+23	2,510257E+23
-2046	7,367183E+22	7,367348E+22	5,183977E+22	5,183871E+22	1,473453E+23	1,036785E+23	2,510238E+23
-2045	7,367384E+22	7,367420E+22	5,183943E+22	5,184118E+22	1,473480E+23	1,036806E+23	2,510287E+23
-2044	7,367436E+22	7,367314E+22	5,183938E+22	5,183950E+22	1,473475E+23	1,036789E+23	2,510264E+23
-2043	7,367090E+22	7,367375E+22	5,184114E+22	5,183956E+22	1,473446E+23	1,036807E+23	2,510253E+23
-2042	7,367463E+22	7,367386E+22	5,183989E+22	5,184054E+22	1,473485E+23	1,036804E+23	2,510289E+23
-2041	7,367311E+22	7,367275E+22	5,183998E+22	5,183828E+22	1,473459E+23	1,036783E+23	2,510241E+23
-2040	7,367168E+22	7,367338E+22	5,184006E+22	5,183981E+22	1,473451E+23	1,036799E+23	2,510249E+23
-2039	7,367503E+22	7,367333E+22	5,183805E+22	5,183941E+22	1,473484E+23	1,036775E+23	2,510258E+23
-2038	7,367169E+22	7,367340E+22	5,183835E+22	5,183729E+22	1,473451E+23	1,036756E+23	2,510207E+23
-2037	7,367352E+22	7,367387E+22	5,183766E+22	5,183852E+22	1,473474E+23	1,036762E+23	2,510236E+23
-2036	7,367573E+22	7,367306E+22	5,183670E+22	5,183657E+22	1,473488E+23	1,036733E+23	2,510221E+23
-2035	7,367171E+22	7,367374E+22	5,183809E+22	5,183629E+22	1,473455E+23	1,036744E+23	2,510198E+23
-2034	7,367446E+22	7,367471E+22	5,183701E+22	5,183823E+22	1,473492E+23	1,036752E+23	2,510244E+23
-2033	7,367353E+22	7,367364E+22	5,183732E+22	5,183673E+22	1,473472E+23	1,036740E+23	2,510212E+23
-2032	7,367101E+22	7,367354E+22	5,183873E+22	5,183834E+22	1,473446E+23	1,036771E+23	2,510216E+23
-2031	7,367495E+22	7,367325E+22	5,183804E+22	5,183919E+22	1,473482E+23	1,036772E+23	2,510254E+23
-2030	7,367247E+22	7,367254E+22	5,183939E+22	5,183794E+22	1,473450E+23	1,036773E+23	2,510224E+23
-2029	7,367280E+22	7,367304E+22	5,183996E+22	5,184041E+22	1,473458E+23	1,036804E+23	2,510262E+23
-2028	7,367532E+22	7,367300E+22	5,183934E+22	5,184045E+22	1,473483E+23	1,036798E+23	2,510281E+23
-2027	7,367083E+22	7,367322E+22	5,184133E+22	5,184023E+22	1,473440E+23	1,036816E+23	2,510256E+23
-2026	7,367297E+22	7,367409E+22	5,184105E+22	5,184216E+22	1,473471E+23	1,036832E+23	2,510303E+23
-2025	7,367372E+22	7,367283E+22	5,184124E+22	5,184040E+22	1,473465E+23	1,036816E+23	2,510282E+23
-2024	7,367069E+22	7,367233E+22	5,184249E+22	5,184090E+22	1,473430E+23	1,036834E+23	2,510264E+23
-2023	7,367428E+22	7,367279E+22	5,184102E+22	5,184185E+22	1,473471E+23	1,036829E+23	2,510299E+23
-2022	7,367219E+22	7,367246E+22	5,184085E+22	5,183986E+22	1,473446E+23	1,036807E+23	2,510254E+23
-2021	7,367120E+22	7,367296E+22	5,184032E+22	5,184089E+22	1,473442E+23	1,036812E+23	2,510254E+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							
-2020	7,367495E+22	7,367311E+22	5,183853E+22	5,184009E+22	1,473481E+23	1,036786E+23	2,510267E+23
-2019	7,367153E+22	7,367260E+22	5,183954E+22	5,183791E+22	1,473441E+23	1,036775E+23	2,510216E+23
-2018	7,367325E+22	7,367371E+22	5,183886E+22	5,183902E+22	1,473470E+23	1,036779E+23	2,510248E+23
-2017	7,367500E+22	7,367340E+22	5,183809E+22	5,183760E+22	1,473484E+23	1,036757E+23	2,510241E+23
-2016	7,367084E+22	7,367311E+22	5,183918E+22	5,183801E+22	1,473439E+23	1,036772E+23	2,510211E+23
-2015	7,367364E+22	7,367394E+22	5,183841E+22	5,183969E+22	1,473476E+23	1,036781E+23	2,510257E+23
-2014	7,367271E+22	7,367296E+22	5,183891E+22	5,183818E+22	1,473457E+23	1,036771E+23	2,510228E+23
-2013	7,367100E+22	7,367250E+22	5,183986E+22	5,183945E+22	1,473435E+23	1,036793E+23	2,510228E+23
-2012	7,367527E+22	7,367268E+22	5,183915E+22	5,184046E+22	1,473479E+23	1,036796E+23	2,510276E+23
-2011	7,367198E+22	7,367192E+22	5,184079E+22	5,183960E+22	1,473439E+23	1,036804E+23	2,510243E+23
-2010	7,367190E+22	7,367334E+22	5,184115E+22	5,184187E+22	1,473452E+23	1,036830E+23	2,510283E+23
-2009	7,367437E+22	7,367329E+22	5,184089E+22	5,184176E+22	1,473477E+23	1,036827E+23	2,510303E+23
-2008	7,367023E+22	7,367215E+22	5,184282E+22	5,184157E+22	1,473424E+23	1,036844E+23	2,510268E+23
-2007	7,367278E+22	7,367293E+22	5,184277E+22	5,184305E+22	1,473457E+23	1,036858E+23	2,510315E+23
-2006	7,367318E+22	7,367208E+22	5,184274E+22	5,184161E+22	1,473453E+23	1,036844E+23	2,510296E+23
-2005	7,367020E+22	7,367178E+22	5,184311E+22	5,184223E+22	1,473420E+23	1,036853E+23	2,510273E+23
-2004	7,367388E+22	7,367277E+22	5,184141E+22	5,184322E+22	1,473467E+23	1,036846E+23	2,510313E+23
-2003	7,367143E+22	7,367187E+22	5,184175E+22	5,184111E+22	1,473433E+23	1,036829E+23	2,510262E+23
-2002	7,367077E+22	7,367289E+22	5,184124E+22	5,184143E+22	1,473437E+23	1,036827E+23	2,510263E+23
-2001	7,367484E+22	7,367299E+22	5,183988E+22	5,184051E+22	1,473478E+23	1,036804E+23	2,510282E+23
-2000	7,367145E+22	7,367160E+22	5,184072E+22	5,183894E+22	1,473431E+23	1,036797E+23	2,510227E+23
-1999	7,367268E+22	7,367314E+22	5,184014E+22	5,184014E+22	1,473458E+23	1,036803E+23	2,510261E+23
-1998	7,367372E+22	7,367326E+22	5,183933E+22	5,183923E+22	1,473470E+23	1,036786E+23	2,510255E+23
-1997	7,367012E+22	7,367238E+22	5,183999E+22	5,183944E+22	1,473425E+23	1,036794E+23	2,510219E+23
-1996	7,367349E+22	7,367318E+22	5,183940E+22	5,184083E+22	1,473467E+23	1,036802E+23	2,510269E+23
-1995	7,367259E+22	7,367174E+22	5,184043E+22	5,183943E+22	1,473443E+23	1,036799E+23	2,510242E+23
-1994	7,367087E+22	7,367226E+22	5,184109E+22	5,184050E+22	1,473431E+23	1,036816E+23	2,510247E+23
-1993	7,367475E+22	7,367309E+22	5,184058E+22	5,184185E+22	1,473478E+23	1,036824E+23	2,510303E+23
-1992	7,367135E+22	7,367157E+22	5,184208E+22	5,184143E+22	1,473429E+23	1,036835E+23	2,510264E+23
-1991	7,367111E+22	7,367286E+22	5,184284E+22	5,184312E+22	1,473440E+23	1,036860E+23	2,510299E+23
-1990	7,367346E+22	7,367289E+22	5,184278E+22	5,184306E+22	1,473464E+23	1,036858E+23	2,510322E+23
-1989	7,367006E+22	7,367102E+22	5,184412E+22	5,184269E+22	1,473411E+23	1,036868E+23	2,510279E+23
-1988	7,367254E+22	7,367216E+22	5,184381E+22	5,184434E+22	1,473447E+23	1,036882E+23	2,510329E+23
-1987	7,367233E+22	7,367131E+22	5,184381E+22	5,184336E+22	1,473436E+23	1,036872E+23	2,510308E+23
-1986	7,366931E+22	7,367175E+22	5,184368E+22	5,184348E+22	1,473411E+23	1,036872E+23	2,510282E+23
-1985	7,367336E+22	7,367276E+22	5,184233E+22	5,184411E+22	1,473461E+23	1,036864E+23	2,510326E+23
-1984	7,367147E+22	7,367081E+22	5,184264E+22	5,184185E+22	1,473423E+23	1,036845E+23	2,510268E+23
-1983	7,367097E+22	7,367205E+22	5,184254E+22	5,184168E+22	1,473430E+23	1,036842E+23	2,510272E+23
-1982	7,367439E+22	7,367289E+22	5,184123E+22	5,184131E+22	1,473473E+23	1,036825E+23	2,510298E+23
-1981	7,367088E+22	7,367138E+22	5,184149E+22	5,184015E+22	1,473423E+23	1,036816E+23	2,510239E+23
-1980	7,367186E+22	7,367314E+22	5,184098E+22	5,184157E+22	1,473450E+23	1,036825E+23	2,510276E+23
-1979	7,367265E+22	7,367250E+22	5,184073E+22	5,184083E+22	1,473452E+23	1,036816E+23	2,510267E+23
-1978	7,366955E+22	7,367191E+22	5,184123E+22	5,184049E+22	1,473415E+23	1,036817E+23	2,510232E+23
-1977	7,367352E+22	7,367261E+22	5,184094E+22	5,184191E+22	1,473461E+23	1,036829E+23	2,510290E+23
-1976	7,367256E+22	7,367059E+22	5,184165E+22	5,184103E+22	1,473432E+23	1,036827E+23	2,510258E+23
-1975	7,367046E+22	7,367187E+22	5,184242E+22	5,184196E+22	1,473423E+23	1,036844E+23	2,510267E+23
-1974	7,367368E+22	7,367315E+22	5,184198E+22	5,184346E+22	1,473468E+23	1,036854E+23	2,510323E+23
-1973	7,367069E+22	7,367099E+22	5,184323E+22	5,184277E+22	1,473417E+23	1,036860E+23	2,510277E+23
-1972	7,367080E+22	7,367224E+22	5,184420E+22	5,184416E+22	1,473430E+23	1,036884E+23	2,510314E+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							
-1971	7,367291E+22	7,367171E+22	5,184452E+22	5,184438E+22	1,473446E+23	1,036889E+23	2,510335E+23
-1970	7,366947E+22	7,367068E+22	5,184530E+22	5,184389E+22	1,473401E+23	1,036892E+23	2,510293E+23
-1969	7,367192E+22	7,367212E+22	5,184495E+22	5,184574E+22	1,473440E+23	1,036907E+23	2,510347E+23
-1968	7,367177E+22	7,367055E+22	5,184464E+22	5,184495E+22	1,473423E+23	1,036896E+23	2,510319E+23
-1967	7,366903E+22	7,367120E+22	5,184478E+22	5,184426E+22	1,473402E+23	1,036890E+23	2,510293E+23
-1966	7,367300E+22	7,367248E+22	5,184367E+22	5,184474E+22	1,473455E+23	1,036884E+23	2,510339E+23
-1965	7,367166E+22	7,367011E+22	5,184359E+22	5,184247E+22	1,473418E+23	1,036861E+23	2,510278E+23
-1964	7,367076E+22	7,367181E+22	5,184348E+22	5,184257E+22	1,473426E+23	1,036860E+23	2,510286E+23
-1963	7,367319E+22	7,367257E+22	5,184242E+22	5,184293E+22	1,473458E+23	1,036853E+23	2,510311E+23
-1962	7,366965E+22	7,367141E+22	5,184235E+22	5,184153E+22	1,473411E+23	1,036839E+23	2,510249E+23
-1961	7,367109E+22	7,367275E+22	5,184226E+22	5,184279E+22	1,473438E+23	1,036850E+23	2,510289E+23
-1960	7,367257E+22	7,367106E+22	5,184193E+22	5,184214E+22	1,473436E+23	1,036841E+23	2,510277E+23
-1959	7,366978E+22	7,367077E+22	5,184255E+22	5,184129E+22	1,473406E+23	1,036838E+23	2,510244E+23
-1958	7,367318E+22	7,367243E+22	5,184227E+22	5,184316E+22	1,473456E+23	1,036854E+23	2,510310E+23
-1957	7,367228E+22	7,367042E+22	5,184246E+22	5,184248E+22	1,473427E+23	1,036849E+23	2,510276E+23
-1956	7,366980E+22	7,367193E+22	5,184356E+22	5,184330E+22	1,473417E+23	1,036869E+23	2,510286E+23
-1955	7,367257E+22	7,367270E+22	5,184382E+22	5,184497E+22	1,473453E+23	1,036888E+23	2,510341E+23
-1954	7,366995E+22	7,367059E+22	5,184492E+22	5,184383E+22	1,473405E+23	1,036887E+23	2,510293E+23
-1953	7,367042E+22	7,367157E+22	5,184606E+22	5,184541E+22	1,473420E+23	1,036915E+23	2,510335E+23
-1952	7,367242E+22	7,367041E+22	5,184582E+22	5,184622E+22	1,473428E+23	1,036920E+23	2,510349E+23
-1951	7,366886E+22	7,366998E+22	5,184635E+22	5,184541E+22	1,473388E+23	1,036918E+23	2,510306E+23
-1950	7,367111E+22	7,367191E+22	5,184595E+22	5,184716E+22	1,473430E+23	1,036931E+23	2,510361E+23
-1949	7,367170E+22	7,366987E+22	5,184528E+22	5,184585E+22	1,473416E+23	1,036911E+23	2,510327E+23
-1948	7,366926E+22	7,367080E+22	5,184570E+22	5,184468E+22	1,473401E+23	1,036904E+23	2,510304E+23
-1947	7,367264E+22	7,367195E+22	5,184507E+22	5,184552E+22	1,473446E+23	1,036906E+23	2,510352E+23
-1946	7,367088E+22	7,367041E+22	5,184462E+22	5,184335E+22	1,473413E+23	1,036880E+23	2,510293E+23
-1945	7,366981E+22	7,367208E+22	5,184467E+22	5,184390E+22	1,473419E+23	1,036886E+23	2,510305E+23
-1944	7,367209E+22	7,367169E+22	5,184346E+22	5,184460E+22	1,473438E+23	1,036881E+23	2,510319E+23
-1943	7,366913E+22	7,367047E+22	5,184362E+22	5,184260E+22	1,473396E+23	1,036862E+23	2,510258E+23
-1942	7,367087E+22	7,367184E+22	5,184361E+22	5,184375E+22	1,473427E+23	1,036874E+23	2,510301E+23
-1941	7,367289E+22	7,366990E+22	5,184280E+22	5,184318E+22	1,473428E+23	1,036860E+23	2,510288E+23
-1940	7,366981E+22	7,367052E+22	5,184341E+22	5,184245E+22	1,473403E+23	1,036859E+23	2,510262E+23
-1939	7,367216E+22	7,367230E+22	5,184354E+22	5,184481E+22	1,473445E+23	1,036883E+23	2,510328E+23
-1938	7,367117E+22	7,367072E+22	5,184367E+22	5,184378E+22	1,473419E+23	1,036875E+23	2,510293E+23
-1937	7,366911E+22	7,367166E+22	5,184536E+22	5,184448E+22	1,473408E+23	1,036898E+23	2,510306E+23
-1936	7,367204E+22	7,367130E+22	5,184560E+22	5,184638E+22	1,473433E+23	1,036920E+23	2,510353E+23
-1935	7,366973E+22	7,366948E+22	5,184666E+22	5,184503E+22	1,473392E+23	1,036917E+23	2,510309E+23
-1934	7,366972E+22	7,367112E+22	5,184752E+22	5,184702E+22	1,473408E+23	1,036945E+23	2,510354E+23
-1933	7,367199E+22	7,366990E+22	5,184654E+22	5,184794E+22	1,473419E+23	1,036945E+23	2,510364E+23
-1932	7,366853E+22	7,366983E+22	5,184713E+22	5,184664E+22	1,473384E+23	1,036938E+23	2,510321E+23
-1931	7,367048E+22	7,367152E+22	5,184729E+22	5,184828E+22	1,473420E+23	1,036956E+23	2,510376E+23
-1930	7,367142E+22	7,366984E+22	5,184646E+22	5,184637E+22	1,473413E+23	1,036928E+23	2,510341E+23
-1929	7,366906E+22	7,367059E+22	5,184719E+22	5,184545E+22	1,473397E+23	1,036926E+23	2,510323E+23
-1928	7,367184E+22	7,367122E+22	5,184623E+22	5,184696E+22	1,473431E+23	1,036932E+23	2,510363E+23
-1927	7,366992E+22	7,366988E+22	5,184563E+22	5,184462E+22	1,473398E+23	1,036902E+23	2,510301E+23
-1926	7,366868E+22	7,367156E+22	5,184575E+22	5,184522E+22	1,473402E+23	1,036910E+23	2,510312E+23
-1925	7,367196E+22	7,367049E+22	5,184413E+22	5,184564E+22	1,473425E+23	1,036898E+23	2,510322E+23
-1924	7,366948E+22	7,366952E+22	5,184442E+22	5,184322E+22	1,473390E+23	1,036876E+23	2,510266E+23
-1923	7,367074E+22	7,367119E+22	5,184482E+22	5,184482E+22	1,473419E+23	1,036896E+23	2,510316E+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							
-1922	7,367240E+22	7,367028E+22	5,184371E+22	5,184419E+22	1,473427E+23	1,036879E+23	2,510306E+23
-1921	7,366913E+22	7,367098E+22	5,184479E+22	5,184381E+22	1,473401E+23	1,036886E+23	2,510287E+23
-1920	7,367104E+22	7,367179E+22	5,184512E+22	5,184644E+22	1,473428E+23	1,036916E+23	2,510344E+23
-1919	7,367042E+22	7,367005E+22	5,184558E+22	5,184499E+22	1,473405E+23	1,036906E+23	2,510310E+23
-1918	7,366850E+22	7,367081E+22	5,184739E+22	5,184587E+22	1,473393E+23	1,036933E+23	2,510326E+23
-1917	7,367187E+22	7,366999E+22	5,184690E+22	5,184803E+22	1,473419E+23	1,036949E+23	2,510368E+23
-1916	7,366942E+22	7,366888E+22	5,184764E+22	5,184674E+22	1,473383E+23	1,036944E+23	2,510327E+23
-1915	7,366876E+22	7,367070E+22	5,184858E+22	5,184895E+22	1,473395E+23	1,036975E+23	2,510370E+23
-1914	7,367122E+22	7,366998E+22	5,184742E+22	5,184909E+22	1,473412E+23	1,036965E+23	2,510377E+23
-1913	7,366850E+22	7,366967E+22	5,184848E+22	5,184742E+22	1,473382E+23	1,036959E+23	2,510341E+23
-1912	7,367026E+22	7,367049E+22	5,184866E+22	5,184906E+22	1,473407E+23	1,036977E+23	2,510385E+23
-1911	7,367117E+22	7,366935E+22	5,184785E+22	5,184703E+22	1,473405E+23	1,036949E+23	2,510354E+23
-1910	7,366822E+22	7,367044E+22	5,184844E+22	5,184660E+22	1,473387E+23	1,036950E+23	2,510337E+23
-1909	7,367096E+22	7,367060E+22	5,184688E+22	5,184836E+22	1,473416E+23	1,036952E+23	2,510368E+23
-1908	7,366937E+22	7,366938E+22	5,184641E+22	5,184573E+22	1,473387E+23	1,036921E+23	2,510309E+23
-1907	7,366809E+22	7,367068E+22	5,184692E+22	5,184636E+22	1,473388E+23	1,036933E+23	2,510320E+23
-1906	7,367185E+22	7,367003E+22	5,184511E+22	5,184630E+22	1,473419E+23	1,036914E+23	2,510333E+23
-1905	7,366967E+22	7,366925E+22	5,184560E+22	5,184419E+22	1,473389E+23	1,036898E+23	2,510287E+23
-1904	7,367004E+22	7,367072E+22	5,184587E+22	5,184634E+22	1,473408E+23	1,036922E+23	2,510330E+23
-1903	7,367153E+22	7,367027E+22	5,184494E+22	5,184554E+22	1,473418E+23	1,036905E+23	2,510323E+23
-1902	7,366810E+22	7,367073E+22	5,184645E+22	5,184522E+22	1,473388E+23	1,036917E+23	2,510305E+23
-1901	7,367058E+22	7,367072E+22	5,184654E+22	5,184774E+22	1,473413E+23	1,036943E+23	2,510356E+23
-1900	7,367038E+22	7,366905E+22	5,184710E+22	5,184615E+22	1,473394E+23	1,036933E+23	2,510327E+23
-1899	7,366792E+22	7,366996E+22	5,184899E+22	5,184762E+22	1,473379E+23	1,036966E+23	2,510345E+23
-1898	7,367116E+22	7,366999E+22	5,184793E+22	5,184959E+22	1,473412E+23	1,036975E+23	2,510387E+23
-1897	7,366894E+22	7,366892E+22	5,184881E+22	5,184833E+22	1,473379E+23	1,036971E+23	2,510350E+23
-1896	7,366809E+22	7,367007E+22	5,184984E+22	5,185041E+22	1,473382E+23	1,037003E+23	2,510384E+23
-1895	7,367101E+22	7,366943E+22	5,184890E+22	5,184977E+22	1,473404E+23	1,036987E+23	2,510391E+23
-1894	7,366822E+22	7,366912E+22	5,185018E+22	5,184817E+22	1,473373E+23	1,036984E+23	2,510357E+23
-1893	7,366998E+22	7,366965E+22	5,184972E+22	5,185012E+22	1,473396E+23	1,036998E+23	2,510395E+23
-1892	7,367050E+22	7,366899E+22	5,184868E+22	5,184828E+22	1,473395E+23	1,036970E+23	2,510365E+23
-1891	7,366694E+22	7,366998E+22	5,184938E+22	5,184826E+22	1,473369E+23	1,036976E+23	2,510346E+23
-1890	7,367008E+22	7,367026E+22	5,184758E+22	5,184931E+22	1,473403E+23	1,036969E+23	2,510372E+23
-1889	7,366944E+22	7,366876E+22	5,184743E+22	5,184653E+22	1,473382E+23	1,036940E+23	2,510322E+23
-1888	7,366808E+22	7,366957E+22	5,184792E+22	5,184728E+22	1,473376E+23	1,036952E+23	2,510328E+23
-1887	7,367178E+22	7,366972E+22	5,184620E+22	5,184709E+22	1,473415E+23	1,036933E+23	2,510348E+23
-1886	7,366906E+22	7,366949E+22	5,184686E+22	5,184545E+22	1,473386E+23	1,036923E+23	2,510309E+23
-1885	7,366928E+22	7,367044E+22	5,184686E+22	5,184774E+22	1,473397E+23	1,036946E+23	2,510343E+23
-1884	7,367091E+22	7,366996E+22	5,184633E+22	5,184678E+22	1,473409E+23	1,036931E+23	2,510340E+23
-1883	7,366733E+22	7,366987E+22	5,184830E+22	5,184673E+22	1,473372E+23	1,036950E+23	2,510322E+23
-1882	7,367004E+22	7,367002E+22	5,184811E+22	5,184894E+22	1,473401E+23	1,036971E+23	2,510371E+23
-1881	7,367028E+22	7,366848E+22	5,184860E+22	5,184786E+22	1,473388E+23	1,036965E+23	2,510352E+23
-1880	7,366708E+22	7,366906E+22	5,185008E+22	5,184961E+22	1,473361E+23	1,036997E+23	2,510358E+23
-1879	7,367044E+22	7,366961E+22	5,184907E+22	5,185106E+22	1,473401E+23	1,037001E+23	2,510402E+23
-1878	7,366852E+22	7,366853E+22	5,185023E+22	5,184945E+22	1,473371E+23	1,036997E+23	2,510367E+23
-1877	7,366805E+22	7,366910E+22	5,185099E+22	5,185120E+22	1,473371E+23	1,037022E+23	2,510393E+23
-1876	7,367112E+22	7,366889E+22	5,185021E+22	5,185044E+22	1,473400E+23	1,037006E+23	2,510407E+23
-1875	7,366747E+22	7,366877E+22	5,185158E+22	5,184951E+22	1,473362E+23	1,037011E+23	2,510373E+23
-1874	7,366879E+22	7,366985E+22	5,185064E+22	5,185132E+22	1,473386E+23	1,037020E+23	2,510406E+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							
-1873	7,366973E+22	7,366894E+22	5,184968E+22	5,184972E+22	1,473387E+23	1,036994E+23	2,510381E+23
-1872	7,366606E+22	7,366900E+22	5,185038E+22	5,184961E+22	1,473351E+23	1,037000E+23	2,510351E+23
-1871	7,366996E+22	7,366944E+22	5,184871E+22	5,185002E+22	1,473394E+23	1,036987E+23	2,510381E+23
-1870	7,366958E+22	7,366808E+22	5,184871E+22	5,184732E+22	1,473377E+23	1,036960E+23	2,510337E+23
-1869	7,366810E+22	7,366891E+22	5,184865E+22	5,184836E+22	1,473370E+23	1,036970E+23	2,510340E+23
-1868	7,367137E+22	7,366970E+22	5,184700E+22	5,184824E+22	1,473411E+23	1,036952E+23	2,510363E+23
-1867	7,366794E+22	7,366938E+22	5,184812E+22	5,184705E+22	1,473373E+23	1,036952E+23	2,510325E+23
-1866	7,366834E+22	7,367025E+22	5,184818E+22	5,184872E+22	1,473386E+23	1,036969E+23	2,510355E+23
-1865	7,367073E+22	7,366925E+22	5,184795E+22	5,184791E+22	1,473400E+23	1,036959E+23	2,510358E+23
-1864	7,366690E+22	7,366856E+22	5,184986E+22	5,184824E+22	1,473355E+23	1,036981E+23	2,510336E+23
-1863	7,366966E+22	7,366932E+22	5,184946E+22	5,185033E+22	1,473390E+23	1,036998E+23	2,510388E+23
-1862	7,366958E+22	7,366824E+22	5,184994E+22	5,184954E+22	1,473378E+23	1,036995E+23	2,510373E+23
-1861	7,366658E+22	7,366851E+22	5,185100E+22	5,185120E+22	1,473351E+23	1,037022E+23	2,510373E+23
-1860	7,367018E+22	7,366919E+22	5,185036E+22	5,185211E+22	1,473394E+23	1,037025E+23	2,510418E+23
-1859	7,366807E+22	7,366802E+22	5,185194E+22	5,185065E+22	1,473361E+23	1,037026E+23	2,510387E+23
-1858	7,366760E+22	7,366878E+22	5,185242E+22	5,185199E+22	1,473364E+23	1,037044E+23	2,510408E+23
-1857	7,367067E+22	7,366873E+22	5,185152E+22	5,185185E+22	1,473394E+23	1,037034E+23	2,510428E+23
-1856	7,366620E+22	7,366812E+22	5,185259E+22	5,185132E+22	1,473343E+23	1,037039E+23	2,510382E+23
-1855	7,366775E+22	7,366931E+22	5,185162E+22	5,185257E+22	1,473371E+23	1,037042E+23	2,510412E+23
-1854	7,366929E+22	7,366821E+22	5,185088E+22	5,185072E+22	1,473375E+23	1,037016E+23	2,510391E+23
-1853	7,366634E+22	7,366773E+22	5,185109E+22	5,185032E+22	1,473341E+23	1,037014E+23	2,510355E+23
-1852	7,367041E+22	7,366877E+22	5,184959E+22	5,185059E+22	1,473392E+23	1,037002E+23	2,510394E+23
-1851	7,366923E+22	7,366804E+22	5,184972E+22	5,184849E+22	1,473373E+23	1,036982E+23	2,510355E+23
-1850	7,366721E+22	7,366934E+22	5,184951E+22	5,184927E+22	1,473365E+23	1,036988E+23	2,510353E+23
-1849	7,367075E+22	7,366995E+22	5,184827E+22	5,184951E+22	1,473407E+23	1,036978E+23	2,510385E+23
-1848	7,366694E+22	7,366850E+22	5,184967E+22	5,184843E+22	1,473354E+23	1,036981E+23	2,510335E+23
-1847	7,366774E+22	7,366932E+22	5,184991E+22	5,184975E+22	1,473371E+23	1,036997E+23	2,510367E+23
-1846	7,367044E+22	7,366832E+22	5,184972E+22	5,184935E+22	1,473388E+23	1,036991E+23	2,510378E+23
-1845	7,366653E+22	7,366746E+22	5,185079E+22	5,185003E+22	1,473340E+23	1,037008E+23	2,510348E+23
-1844	7,366918E+22	7,366886E+22	5,185038E+22	5,185202E+22	1,473380E+23	1,037024E+23	2,510404E+23
-1843	7,366880E+22	7,366793E+22	5,185115E+22	5,185127E+22	1,473367E+23	1,037024E+23	2,510391E+23
-1842	7,366611E+22	7,366830E+22	5,185226E+22	5,185202E+22	1,473344E+23	1,037043E+23	2,510387E+23
-1841	7,367030E+22	7,366889E+22	5,185195E+22	5,185302E+22	1,473392E+23	1,037050E+23	2,510442E+23
-1840	7,366748E+22	7,366727E+22	5,185356E+22	5,185194E+22	1,473348E+23	1,037055E+23	2,510403E+23
-1839	7,366672E+22	7,366861E+22	5,185386E+22	5,185323E+22	1,473353E+23	1,037071E+23	2,510424E+23
-1838	7,366964E+22	7,366854E+22	5,185290E+22	5,185339E+22	1,473382E+23	1,037063E+23	2,510445E+23
-1837	7,366553E+22	7,366721E+22	5,185342E+22	5,185278E+22	1,473327E+23	1,037062E+23	2,510389E+23
-1836	7,366765E+22	7,366838E+22	5,185263E+22	5,185343E+22	1,473360E+23	1,037061E+23	2,510421E+23
-1835	7,366920E+22	7,366743E+22	5,185207E+22	5,185170E+22	1,473366E+23	1,037038E+23	2,510404E+23
-1834	7,366640E+22	7,366745E+22	5,185195E+22	5,185089E+22	1,473338E+23	1,037028E+23	2,510367E+23
-1833	7,367025E+22	7,366889E+22	5,185040E+22	5,185166E+22	1,473391E+23	1,037021E+23	2,510412E+23
-1832	7,366806E+22	7,366786E+22	5,185065E+22	5,184996E+22	1,473359E+23	1,037006E+23	2,510365E+23
-1831	7,366618E+22	7,366909E+22	5,185072E+22	5,185025E+22	1,473353E+23	1,037010E+23	2,510362E+23
-1830	7,366999E+22	7,366927E+22	5,184993E+22	5,185051E+22	1,473393E+23	1,037004E+23	2,510397E+23
-1829	7,366676E+22	7,366714E+22	5,185091E+22	5,184963E+22	1,473339E+23	1,037005E+23	2,510344E+23
-1828	7,366769E+22	7,366825E+22	5,185121E+22	5,185100E+22	1,473359E+23	1,037022E+23	2,510381E+23
-1827	7,366975E+22	7,366794E+22	5,185095E+22	5,185123E+22	1,473377E+23	1,037022E+23	2,510399E+23
-1826	7,366583E+22	7,366749E+22	5,185168E+22	5,185143E+22	1,473333E+23	1,037031E+23	2,510364E+23
-1825	7,366885E+22	7,366890E+22	5,185160E+22	5,185347E+22	1,473378E+23	1,037051E+23	2,510428E+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	7,366814E+22	7,366732E+22	5,185278E+22	5,185261E+22	1,473355E+23	1,037054E+23	2,510409E+23
-1823	7,366577E+22	7,366776E+22	5,185414E+22	5,185286E+22	1,473335E+23	1,037070E+23	2,510405E+23
-1822	7,366984E+22	7,366839E+22	5,185394E+22	5,185429E+22	1,473382E+23	1,037082E+23	2,510465E+23
-1821	7,366672E+22	7,366646E+22	5,185471E+22	5,185369E+22	1,473332E+23	1,037084E+23	2,510416E+23
-1820	7,366583E+22	7,366795E+22	5,185493E+22	5,185482E+22	1,473338E+23	1,037097E+23	2,510435E+23
-1819	7,366874E+22	7,366789E+22	5,185401E+22	5,185498E+22	1,473366E+23	1,037090E+23	2,510456E+23
-1818	7,366531E+22	7,366647E+22	5,185422E+22	5,185340E+22	1,473318E+23	1,037076E+23	2,510394E+23
-1817	7,366817E+22	7,366787E+22	5,185352E+22	5,185413E+22	1,473360E+23	1,037077E+23	2,510437E+23
-1816	7,366895E+22	7,366689E+22	5,185300E+22	5,185262E+22	1,473358E+23	1,037056E+23	2,510415E+23
-1815	7,366568E+22	7,366769E+22	5,185291E+22	5,185168E+22	1,473334E+23	1,037046E+23	2,510380E+23
-1814	7,366927E+22	7,366916E+22	5,185171E+22	5,185276E+22	1,473384E+23	1,037045E+23	2,510429E+23
-1813	7,366717E+22	7,366720E+22	5,185173E+22	5,185124E+22	1,473344E+23	1,037030E+23	2,510373E+23
-1812	7,366569E+22	7,366813E+22	5,185219E+22	5,185126E+22	1,473338E+23	1,037034E+23	2,510373E+23
-1811	7,366950E+22	7,366826E+22	5,185151E+22	5,185192E+22	1,473378E+23	1,037034E+23	2,510412E+23
-1810	7,366650E+22	7,366638E+22	5,185197E+22	5,185087E+22	1,473329E+23	1,037028E+23	2,510357E+23
-1809	7,366749E+22	7,366801E+22	5,185207E+22	5,185273E+22	1,473355E+23	1,037048E+23	2,510403E+23
-1808	7,366875E+22	7,366751E+22	5,185200E+22	5,185306E+22	1,473363E+23	1,037051E+23	2,510413E+23
-1807	7,366521E+22	7,366730E+22	5,185308E+22	5,185250E+22	1,473325E+23	1,037056E+23	2,510381E+23
-1806	7,366856E+22	7,366847E+22	5,185354E+22	5,185437E+22	1,473370E+23	1,037079E+23	2,510449E+23
-1805	7,366803E+22	7,366637E+22	5,185437E+22	5,185379E+22	1,473344E+23	1,037082E+23	2,510426E+23
-1804	7,366546E+22	7,366707E+22	5,185580E+22	5,185414E+22	1,473325E+23	1,037099E+23	2,510425E+23
-1803	7,366864E+22	7,366818E+22	5,185543E+22	5,185618E+22	1,473368E+23	1,037116E+23	2,510484E+23
-1802	7,366579E+22	7,366621E+22	5,185571E+22	5,185518E+22	1,473320E+23	1,037109E+23	2,510429E+23
-1801	7,366547E+22	7,366745E+22	5,185588E+22	5,185618E+22	1,473329E+23	1,037121E+23	2,510450E+23
-1800	7,366817E+22	7,366694E+22	5,185518E+22	5,185613E+22	1,473351E+23	1,037113E+23	2,510464E+23
-1799	7,366536E+22	7,366590E+22	5,185534E+22	5,185394E+22	1,473313E+23	1,037093E+23	2,510405E+23
-1798	7,366797E+22	7,366761E+22	5,185475E+22	5,185496E+22	1,473356E+23	1,037097E+23	2,510453E+23
-1797	7,366827E+22	7,366661E+22	5,185364E+22	5,185392E+22	1,473349E+23	1,037076E+23	2,510424E+23
-1796	7,366489E+22	7,366732E+22	5,185388E+22	5,185278E+22	1,473322E+23	1,037067E+23	2,510389E+23
-1795	7,366816E+22	7,366871E+22	5,185303E+22	5,185397E+22	1,473369E+23	1,037070E+23	2,510439E+23
-1794	7,366682E+22	7,366637E+22	5,185286E+22	5,185196E+22	1,473332E+23	1,037048E+23	2,510380E+23
-1793	7,366587E+22	7,366731E+22	5,185332E+22	5,185238E+22	1,473332E+23	1,037057E+23	2,510389E+23
-1792	7,366890E+22	7,366750E+22	5,185269E+22	5,185350E+22	1,473364E+23	1,037062E+23	2,510426E+23
-1791	7,366589E+22	7,366634E+22	5,185302E+22	5,185218E+22	1,473322E+23	1,037052E+23	2,510374E+23
-1790	7,366689E+22	7,366805E+22	5,185350E+22	5,185414E+22	1,473349E+23	1,037076E+23	2,510426E+23
-1789	7,366826E+22	7,366694E+22	5,185331E+22	5,185445E+22	1,473352E+23	1,037078E+23	2,510429E+23
-1788	7,366504E+22	7,366654E+22	5,185496E+22	5,185354E+22	1,473316E+23	1,037085E+23	2,510401E+23
-1787	7,366801E+22	7,366789E+22	5,185557E+22	5,185580E+22	1,473359E+23	1,037114E+23	2,510473E+23
-1786	7,366740E+22	7,366583E+22	5,185579E+22	5,185524E+22	1,473332E+23	1,037110E+23	2,510443E+23
-1785	7,366473E+22	7,366682E+22	5,185686E+22	5,185612E+22	1,473316E+23	1,037130E+23	2,510445E+23
-1784	7,366728E+22	7,366743E+22	5,185650E+22	5,185807E+22	1,473347E+23	1,037146E+23	2,510493E+23
-1783	7,366512E+22	7,366554E+22	5,185679E+22	5,185618E+22	1,473307E+23	1,037130E+23	2,510436E+23
-1782	7,366551E+22	7,366675E+22	5,185723E+22	5,185691E+22	1,473323E+23	1,037141E+23	2,510464E+23
-1781	7,366831E+22	7,366600E+22	5,185608E+22	5,185696E+22	1,473343E+23	1,037130E+23	2,510474E+23
-1780	7,366533E+22	7,366554E+22	5,185639E+22	5,185473E+22	1,473309E+23	1,037111E+23	2,510420E+23
-1779	7,366701E+22	7,366784E+22	5,185582E+22	5,185615E+22	1,473348E+23	1,037120E+23	2,510468E+23
-1778	7,366741E+22	7,366661E+22	5,185450E+22	5,185485E+22	1,473340E+23	1,037093E+23	2,510434E+23
-1777	7,366445E+22	7,366699E+22	5,185494E+22	5,185390E+22	1,473314E+23	1,037088E+23	2,510403E+23
-1776	7,366731E+22	7,366769E+22	5,185447E+22	5,185514E+22	1,473350E+23	1,037096E+23	2,510446E+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	7,366658E+22	7,366558E+22	5,185423E+22	5,185293E+22	1,473322E+23	1,037072E+23	2,510393E+23
-1774	7,366560E+22	7,366679E+22	5,185463E+22	5,185377E+22	1,473324E+23	1,037084E+23	2,510408E+23
-1773	7,366826E+22	7,366692E+22	5,185345E+22	5,185528E+22	1,473352E+23	1,037087E+23	2,510439E+23
-1772	7,366549E+22	7,366584E+22	5,185415E+22	5,185355E+22	1,473313E+23	1,037077E+23	2,510390E+23
-1771	7,366618E+22	7,366770E+22	5,185505E+22	5,185537E+22	1,473339E+23	1,037104E+23	2,510443E+23
-1770	7,366816E+22	7,366640E+22	5,185477E+22	5,185531E+22	1,473346E+23	1,037101E+23	2,510446E+23
-1769	7,366508E+22	7,366601E+22	5,185644E+22	5,185486E+22	1,473311E+23	1,037113E+23	2,510424E+23
-1768	7,366674E+22	7,366738E+22	5,185716E+22	5,185760E+22	1,473341E+23	1,037148E+23	2,510489E+23
-1767	7,366630E+22	7,366571E+22	5,185713E+22	5,185686E+22	1,473320E+23	1,037140E+23	2,510460E+23
-1766	7,366387E+22	7,366636E+22	5,185831E+22	5,185771E+22	1,473302E+23	1,037160E+23	2,510462E+23
-1765	7,366676E+22	7,366636E+22	5,185760E+22	5,185947E+22	1,473331E+23	1,037171E+23	2,510502E+23
-1764	7,366540E+22	7,366441E+22	5,185812E+22	5,185698E+22	1,473298E+23	1,037151E+23	2,510449E+23
-1763	7,366541E+22	7,366621E+22	5,185855E+22	5,185786E+22	1,473316E+23	1,037164E+23	2,510480E+23
-1762	7,366808E+22	7,366586E+22	5,185685E+22	5,185786E+22	1,473339E+23	1,037147E+23	2,510487E+23
-1761	7,366479E+22	7,366572E+22	5,185706E+22	5,185604E+22	1,473305E+23	1,037131E+23	2,510436E+23
-1760	7,366556E+22	7,366752E+22	5,185694E+22	5,185743E+22	1,473331E+23	1,037144E+23	2,510475E+23
-1759	7,366665E+22	7,366613E+22	5,185576E+22	5,185556E+22	1,473328E+23	1,037113E+23	2,510441E+23
-1758	7,366431E+22	7,366614E+22	5,185644E+22	5,185476E+22	1,473305E+23	1,037112E+23	2,510417E+23
-1757	7,366713E+22	7,366654E+22	5,185547E+22	5,185640E+22	1,473337E+23	1,037119E+23	2,510455E+23
-1756	7,366642E+22	7,366494E+22	5,185528E+22	5,185426E+22	1,473314E+23	1,037095E+23	2,510409E+23
-1755	7,366487E+22	7,366685E+22	5,185568E+22	5,185536E+22	1,473317E+23	1,037110E+23	2,510427E+23
-1754	7,366776E+22	7,366673E+22	5,185437E+22	5,185643E+22	1,473345E+23	1,037108E+23	2,510453E+23
-1753	7,366536E+22	7,366564E+22	5,185540E+22	5,185475E+22	1,473310E+23	1,037102E+23	2,510412E+23
-1752	7,366545E+22	7,366695E+22	5,185687E+22	5,185656E+22	1,473324E+23	1,037134E+23	2,510458E+23
-1751	7,366759E+22	7,366588E+22	5,185655E+22	5,185648E+22	1,473335E+23	1,037130E+23	2,510465E+23
-1750	7,366434E+22	7,366563E+22	5,185815E+22	5,185663E+22	1,473300E+23	1,037148E+23	2,510448E+23
-1749	7,366554E+22	7,366653E+22	5,185826E+22	5,185965E+22	1,473321E+23	1,037179E+23	2,510500E+23
-1748	7,366572E+22	7,366468E+22	5,185843E+22	5,185839E+22	1,473304E+23	1,037168E+23	2,510472E+23
-1747	7,366349E+22	7,366555E+22	5,185965E+22	5,185889E+22	1,473290E+23	1,037185E+23	2,510476E+23
-1746	7,366706E+22	7,366551E+22	5,185862E+22	5,186014E+22	1,473326E+23	1,037188E+23	2,510513E+23
-1745	7,366581E+22	7,366421E+22	5,185901E+22	5,185793E+22	1,473300E+23	1,037169E+23	2,510470E+23
-1744	7,366446E+22	7,366623E+22	5,185967E+22	5,185904E+22	1,473307E+23	1,037187E+23	2,510494E+23
-1743	7,366706E+22	7,366627E+22	5,185796E+22	5,185885E+22	1,473333E+23	1,037168E+23	2,510501E+23
-1742	7,366392E+22	7,366563E+22	5,185849E+22	5,185718E+22	1,473296E+23	1,037157E+23	2,510452E+23
-1741	7,366465E+22	7,366654E+22	5,185816E+22	5,185863E+22	1,473312E+23	1,037168E+23	2,510480E+23
-1740	7,366663E+22	7,366481E+22	5,185719E+22	5,185656E+22	1,473314E+23	1,037137E+23	2,510452E+23
-1739	7,366400E+22	7,366528E+22	5,185762E+22	5,185605E+22	1,473293E+23	1,037137E+23	2,510430E+23
-1738	7,366690E+22	7,366603E+22	5,185603E+22	5,185774E+22	1,473329E+23	1,037138E+23	2,510467E+23
-1737	7,366621E+22	7,366485E+22	5,185568E+22	5,185574E+22	1,473311E+23	1,037114E+23	2,510425E+23
-1736	7,366382E+22	7,366648E+22	5,185679E+22	5,185656E+22	1,473303E+23	1,037134E+23	2,510437E+23
-1735	7,366734E+22	7,366649E+22	5,185585E+22	5,185708E+22	1,473338E+23	1,037129E+23	2,510467E+23
-1734	7,366525E+22	7,366509E+22	5,185731E+22	5,185572E+22	1,473303E+23	1,037130E+23	2,510434E+23
-1733	7,366472E+22	7,366610E+22	5,185847E+22	5,185808E+22	1,473308E+23	1,037165E+23	2,510474E+23
-1732	7,366693E+22	7,366518E+22	5,185815E+22	5,185819E+22	1,473321E+23	1,037163E+23	2,510485E+23
-1731	7,366326E+22	7,366523E+22	5,185962E+22	5,185854E+22	1,473285E+23	1,037182E+23	2,510466E+23
-1730	7,366503E+22	7,366579E+22	5,185935E+22	5,186111E+22	1,473308E+23	1,037205E+23	2,510513E+23
-1729	7,366583E+22	7,366408E+22	5,185951E+22	5,185968E+22	1,473299E+23	1,037192E+23	2,510491E+23
-1728	7,366315E+22	7,366483E+22	5,186113E+22	5,186000E+22	1,473280E+23	1,037211E+23	2,510491E+23
-1727	7,366682E+22	7,366538E+22	5,185995E+22	5,186102E+22	1,473322E+23	1,037210E+23	2,510532E+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							
-1726	7,366522E+22	7,366443E+22	5,186031E+22	5,185928E+22	1,473296E+23	1,037196E+23	2,510492E+23
-1725	7,366317E+22	7,366589E+22	5,186063E+22	5,186052E+22	1,473291E+23	1,037212E+23	2,510502E+23
-1724	7,366629E+22	7,366546E+22	5,185926E+22	5,185991E+22	1,473317E+23	1,037192E+23	2,510509E+23
-1723	7,366340E+22	7,366478E+22	5,185986E+22	5,185816E+22	1,473282E+23	1,037180E+23	2,510462E+23
-1722	7,366474E+22	7,366529E+22	5,185903E+22	5,185938E+22	1,473300E+23	1,037184E+23	2,510484E+23
-1721	7,366680E+22	7,366428E+22	5,185779E+22	5,185773E+22	1,473311E+23	1,037155E+23	2,510466E+23
-1720	7,366323E+22	7,366509E+22	5,185839E+22	5,185738E+22	1,473283E+23	1,037158E+23	2,510441E+23
-1719	7,366619E+22	7,366622E+22	5,185690E+22	5,185871E+22	1,473324E+23	1,037156E+23	2,510480E+23
-1718	7,366577E+22	7,366494E+22	5,185707E+22	5,185679E+22	1,473307E+23	1,037139E+23	2,510446E+23
-1717	7,366317E+22	7,366570E+22	5,185832E+22	5,185760E+22	1,473289E+23	1,037159E+23	2,510448E+23
-1716	7,366719E+22	7,366545E+22	5,185781E+22	5,185812E+22	1,473326E+23	1,037159E+23	2,510486E+23
-1715	7,366457E+22	7,366448E+22	5,185914E+22	5,185737E+22	1,473290E+23	1,037165E+23	2,510456E+23
-1714	7,366387E+22	7,366543E+22	5,185959E+22	5,185996E+22	1,473293E+23	1,037195E+23	2,510489E+23
-1713	7,366626E+22	7,366476E+22	5,185904E+22	5,186021E+22	1,473310E+23	1,037193E+23	2,510503E+23
-1712	7,366231E+22	7,366443E+22	5,186091E+22	5,186013E+22	1,473267E+23	1,037210E+23	2,510478E+23
-1711	7,366491E+22	7,366520E+22	5,186073E+22	5,186198E+22	1,473301E+23	1,037227E+23	2,510528E+23
-1710	7,366609E+22	7,366373E+22	5,186106E+22	5,186066E+22	1,473298E+23	1,037217E+23	2,510515E+23
-1709	7,366260E+22	7,366443E+22	5,186240E+22	5,186127E+22	1,473270E+23	1,037237E+23	2,510507E+23
-1708	7,366624E+22	7,366519E+22	5,186136E+22	5,186229E+22	1,473314E+23	1,037236E+23	2,510551E+23
-1707	7,366406E+22	7,366436E+22	5,186170E+22	5,186064E+22	1,473284E+23	1,037223E+23	2,510508E+23
-1706	7,366241E+22	7,366517E+22	5,186168E+22	5,186159E+22	1,473276E+23	1,037233E+23	2,510509E+23
-1705	7,366617E+22	7,366459E+22	5,186016E+22	5,186091E+22	1,473308E+23	1,037211E+23	2,510518E+23
-1704	7,366292E+22	7,366365E+22	5,186103E+22	5,185920E+22	1,473266E+23	1,037202E+23	2,510468E+23
-1703	7,366450E+22	7,366486E+22	5,185991E+22	5,186033E+22	1,473294E+23	1,037202E+23	2,510496E+23
-1702	7,366640E+22	7,366433E+22	5,185861E+22	5,185905E+22	1,473307E+23	1,037177E+23	2,510484E+23
-1701	7,366228E+22	7,366473E+22	5,185917E+22	5,185868E+22	1,473270E+23	1,037178E+23	2,510449E+23
-1700	7,366586E+22	7,366556E+22	5,185828E+22	5,185950E+22	1,473314E+23	1,037178E+23	2,510492E+23
-1699	7,366538E+22	7,366442E+22	5,185878E+22	5,185765E+22	1,473298E+23	1,037164E+23	2,510462E+23
-1698	7,366300E+22	7,366484E+22	5,185974E+22	5,185866E+22	1,473278E+23	1,037184E+23	2,510462E+23
-1697	7,366675E+22	7,366511E+22	5,185901E+22	5,185976E+22	1,473319E+23	1,037188E+23	2,510506E+23
-1696	7,366327E+22	7,366415E+22	5,186056E+22	5,185938E+22	1,473274E+23	1,037199E+23	2,510474E+23
-1695	7,366293E+22	7,366515E+22	5,186091E+22	5,186156E+22	1,473281E+23	1,037225E+23	2,510506E+23
-1694	7,366583E+22	7,366441E+22	5,186060E+22	5,186176E+22	1,473302E+23	1,037224E+23	2,510526E+23
-1693	7,366198E+22	7,366343E+22	5,186238E+22	5,186143E+22	1,473254E+23	1,037238E+23	2,510492E+23
-1692	7,366508E+22	7,366422E+22	5,186245E+22	5,186300E+22	1,473293E+23	1,037255E+23	2,510548E+23
-1691	7,366563E+22	7,366360E+22	5,186261E+22	5,186204E+22	1,473292E+23	1,037246E+23	2,510539E+23
-1690	7,366186E+22	7,366408E+22	5,186331E+22	5,186267E+22	1,473259E+23	1,037260E+23	2,510519E+23
-1689	7,366536E+22	7,366494E+22	5,186221E+22	5,186365E+22	1,473303E+23	1,037259E+23	2,510562E+23
-1688	7,366300E+22	7,366358E+22	5,186299E+22	5,186177E+22	1,473266E+23	1,037248E+23	2,510513E+23
-1687	7,366207E+22	7,366427E+22	5,186286E+22	5,186221E+22	1,473263E+23	1,037251E+23	2,510514E+23
-1686	7,366619E+22	7,366405E+22	5,186130E+22	5,186189E+22	1,473302E+23	1,037232E+23	2,510534E+23
-1685	7,366240E+22	7,366304E+22	5,186176E+22	5,186042E+22	1,473254E+23	1,037222E+23	2,510476E+23
-1684	7,366415E+22	7,366454E+22	5,186082E+22	5,186144E+22	1,473287E+23	1,037223E+23	2,510509E+23
-1683	7,366567E+22	7,366444E+22	5,185976E+22	5,186016E+22	1,473301E+23	1,037199E+23	2,510500E+23
-1682	7,366187E+22	7,366424E+22	5,186026E+22	5,185957E+22	1,473261E+23	1,037198E+23	2,510459E+23
-1681	7,366569E+22	7,366506E+22	5,185960E+22	5,186046E+22	1,473308E+23	1,037201E+23	2,510508E+23
-1680	7,366466E+22	7,366367E+22	5,186051E+22	5,185904E+22	1,473283E+23	1,037195E+23	2,510479E+23
-1679	7,366220E+22	7,366446E+22	5,186116E+22	5,186023E+22	1,473267E+23	1,037214E+23	2,510480E+23
-1678	7,366583E+22	7,366498E+22	5,186028E+22	5,186179E+22	1,473308E+23	1,037221E+23	2,510529E+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	7,366215E+22	7,366326E+22	5,186173E+22	5,186125E+22	1,473254E+23	1,037230E+23	2,510484E+23
-1676	7,366289E+22	7,366399E+22	5,186247E+22	5,186279E+22	1,473269E+23	1,037253E+23	2,510521E+23
-1675	7,366583E+22	7,366363E+22	5,186228E+22	5,186275E+22	1,473295E+23	1,037250E+23	2,510545E+23
-1674	7,366214E+22	7,366271E+22	5,186364E+22	5,186247E+22	1,473248E+23	1,037261E+23	2,510510E+23
-1673	7,366481E+22	7,366421E+22	5,186351E+22	5,186429E+22	1,473290E+23	1,037278E+23	2,510568E+23
-1672	7,366430E+22	7,366359E+22	5,186400E+22	5,186358E+22	1,473279E+23	1,037276E+23	2,510555E+23
-1671	7,366074E+22	7,366400E+22	5,186464E+22	5,186385E+22	1,473247E+23	1,037285E+23	2,510532E+23
-1670	7,366462E+22	7,366456E+22	5,186364E+22	5,186484E+22	1,473292E+23	1,037285E+23	2,510577E+23
-1669	7,366241E+22	7,366232E+22	5,186428E+22	5,186293E+22	1,473247E+23	1,037272E+23	2,510519E+23
-1668	7,366219E+22	7,366303E+22	5,186412E+22	5,186322E+22	1,473252E+23	1,037273E+23	2,510526E+23
-1667	7,366572E+22	7,366377E+22	5,186229E+22	5,186318E+22	1,473295E+23	1,037255E+23	2,510549E+23
-1666	7,366196E+22	7,366275E+22	5,186216E+22	5,186169E+22	1,473247E+23	1,037238E+23	2,510486E+23
-1665	7,366374E+22	7,366443E+22	5,186141E+22	5,186241E+22	1,473282E+23	1,037238E+23	2,510520E+23
-1664	7,366498E+22	7,366404E+22	5,186110E+22	5,186100E+22	1,473290E+23	1,037221E+23	2,510511E+23
-1663	7,366162E+22	7,366374E+22	5,186174E+22	5,186020E+22	1,473254E+23	1,037219E+23	2,510473E+23
-1662	7,366525E+22	7,366485E+22	5,186118E+22	5,186172E+22	1,473301E+23	1,037229E+23	2,510530E+23
-1661	7,366363E+22	7,366307E+22	5,186186E+22	5,186086E+22	1,473267E+23	1,037227E+23	2,510494E+23
-1660	7,366149E+22	7,366367E+22	5,186258E+22	5,186194E+22	1,473252E+23	1,037245E+23	2,510497E+23
-1659	7,366504E+22	7,366453E+22	5,186181E+22	5,186341E+22	1,473296E+23	1,037252E+23	2,510548E+23
-1658	7,366211E+22	7,366221E+22	5,186286E+22	5,186249E+22	1,473243E+23	1,037254E+23	2,510497E+23
-1657	7,366309E+22	7,366323E+22	5,186372E+22	5,186382E+22	1,473263E+23	1,037275E+23	2,510539E+23
-1656	7,366539E+22	7,366319E+22	5,186392E+22	5,186410E+22	1,473286E+23	1,037280E+23	2,510566E+23
-1655	7,366138E+22	7,366273E+22	5,186500E+22	5,186385E+22	1,473241E+23	1,037289E+23	2,510530E+23
-1654	7,366364E+22	7,366449E+22	5,186484E+22	5,186597E+22	1,473281E+23	1,037308E+23	2,510589E+23
-1653	7,366297E+22	7,366282E+22	5,186532E+22	5,186514E+22	1,473258E+23	1,037305E+23	2,510563E+23
-1652	7,366040E+22	7,366269E+22	5,186616E+22	5,186487E+22	1,473231E+23	1,037310E+23	2,510541E+23
-1651	7,366437E+22	7,366366E+22	5,186507E+22	5,186578E+22	1,473280E+23	1,037309E+23	2,510589E+23
-1650	7,366251E+22	7,366137E+22	5,186499E+22	5,186402E+22	1,473239E+23	1,037290E+23	2,510529E+23
-1649	7,366209E+22	7,366289E+22	5,186458E+22	5,186438E+22	1,473250E+23	1,037290E+23	2,510539E+23
-1648	7,366486E+22	7,366383E+22	5,186319E+22	5,186439E+22	1,473287E+23	1,037276E+23	2,510563E+23
-1647	7,366137E+22	7,366286E+22	5,186319E+22	5,186246E+22	1,473242E+23	1,037256E+23	2,510499E+23
-1646	7,366331E+22	7,366443E+22	5,186279E+22	5,186319E+22	1,473277E+23	1,037260E+23	2,510537E+23
-1645	7,366435E+22	7,366309E+22	5,186267E+22	5,186206E+22	1,473274E+23	1,037247E+23	2,510522E+23
-1644	7,366144E+22	7,366268E+22	5,186340E+22	5,186151E+22	1,473241E+23	1,037249E+23	2,510490E+23
-1643	7,366426E+22	7,366440E+22	5,186258E+22	5,186341E+22	1,473287E+23	1,037260E+23	2,510547E+23
-1642	7,366285E+22	7,366224E+22	5,186265E+22	5,186270E+22	1,473251E+23	1,037253E+23	2,510504E+23
-1641	7,366122E+22	7,366290E+22	5,186342E+22	5,186333E+22	1,473241E+23	1,037268E+23	2,510509E+23
-1640	7,366463E+22	7,366368E+22	5,186327E+22	5,186457E+22	1,473283E+23	1,037278E+23	2,510561E+23
-1639	7,366219E+22	7,366178E+22	5,186429E+22	5,186335E+22	1,473240E+23	1,037276E+23	2,510516E+23
-1638	7,366283E+22	7,366342E+22	5,186519E+22	5,186509E+22	1,473262E+23	1,037303E+23	2,510565E+23
-1637	7,366425E+22	7,366305E+22	5,186541E+22	5,186582E+22	1,473273E+23	1,037312E+23	2,510585E+23
-1636	7,366050E+22	7,366231E+22	5,186667E+22	5,186546E+22	1,473228E+23	1,037321E+23	2,510549E+23
-1635	7,366242E+22	7,366412E+22	5,186661E+22	5,186738E+22	1,473265E+23	1,037340E+23	2,510605E+23
-1634	7,366262E+22	7,366160E+22	5,186655E+22	5,186644E+22	1,473242E+23	1,037330E+23	2,510572E+23
-1633	7,366059E+22	7,366151E+22	5,186719E+22	5,186591E+22	1,473221E+23	1,037331E+23	2,510552E+23
-1632	7,366404E+22	7,366295E+22	5,186620E+22	5,186709E+22	1,473270E+23	1,037333E+23	2,510603E+23
-1631	7,366212E+22	7,366138E+22	5,186560E+22	5,186514E+22	1,473235E+23	1,037307E+23	2,510542E+23
-1630	7,366145E+22	7,366332E+22	5,186527E+22	5,186552E+22	1,473248E+23	1,037308E+23	2,510556E+23
-1629	7,366405E+22	7,366338E+22	5,186427E+22	5,186533E+22	1,473274E+23	1,037296E+23	2,510570E+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							
-1628	7,366128E+22	7,366192E+22	5,186469E+22	5,186302E+22	1,473232E+23	1,037277E+23	2,510509E+23
-1627	7,366280E+22	7,366390E+22	5,186447E+22	5,186395E+22	1,473267E+23	1,037284E+23	2,510551E+23
-1626	7,366399E+22	7,366222E+22	5,186366E+22	5,186341E+22	1,473262E+23	1,037271E+23	2,510533E+23
-1625	7,366084E+22	7,366215E+22	5,186422E+22	5,186308E+22	1,473230E+23	1,037273E+23	2,510503E+23
-1624	7,366319E+22	7,366399E+22	5,186379E+22	5,186515E+22	1,473272E+23	1,037289E+23	2,510561E+23
-1623	7,366234E+22	7,366183E+22	5,186376E+22	5,186394E+22	1,473242E+23	1,037277E+23	2,510519E+23
-1622	7,366109E+22	7,366268E+22	5,186476E+22	5,186448E+22	1,473238E+23	1,037292E+23	2,510530E+23
-1621	7,366432E+22	7,366282E+22	5,186491E+22	5,186586E+22	1,473271E+23	1,037308E+23	2,510579E+23
-1620	7,366200E+22	7,366118E+22	5,186604E+22	5,186477E+22	1,473232E+23	1,037308E+23	2,510540E+23
-1619	7,366164E+22	7,366352E+22	5,186688E+22	5,186674E+22	1,473252E+23	1,037336E+23	2,510588E+23
-1618	7,366325E+22	7,366239E+22	5,186658E+22	5,186761E+22	1,473256E+23	1,037342E+23	2,510598E+23
-1617	7,366001E+22	7,366133E+22	5,186794E+22	5,186681E+22	1,473213E+23	1,037348E+23	2,510561E+23
-1616	7,366189E+22	7,366297E+22	5,186820E+22	5,186855E+22	1,473249E+23	1,037368E+23	2,510616E+23
-1615	7,366264E+22	7,366085E+22	5,186769E+22	5,186739E+22	1,473235E+23	1,037351E+23	2,510586E+23
-1614	7,366052E+22	7,366157E+22	5,186801E+22	5,186712E+22	1,473221E+23	1,037351E+23	2,510572E+23
-1613	7,366322E+22	7,366272E+22	5,186708E+22	5,186844E+22	1,473259E+23	1,037355E+23	2,510615E+23
-1612	7,366172E+22	7,366124E+22	5,186672E+22	5,186615E+22	1,473230E+23	1,037329E+23	2,510558E+23
-1611	7,366065E+22	7,366325E+22	5,186670E+22	5,186616E+22	1,473239E+23	1,037329E+23	2,510568E+23
-1610	7,366369E+22	7,366246E+22	5,186543E+22	5,186614E+22	1,473262E+23	1,037316E+23	2,510577E+23
-1609	7,366124E+22	7,366094E+22	5,186591E+22	5,186399E+22	1,473222E+23	1,037299E+23	2,510521E+23
-1608	7,366184E+22	7,366321E+22	5,186580E+22	5,186550E+22	1,473251E+23	1,037313E+23	2,510564E+23
-1607	7,366308E+22	7,366197E+22	5,186446E+22	5,186505E+22	1,473251E+23	1,037295E+23	2,510546E+23
-1606	7,366017E+22	7,366206E+22	5,186494E+22	5,186466E+22	1,473222E+23	1,037296E+23	2,510518E+23
-1605	7,366259E+22	7,366301E+22	5,186500E+22	5,186645E+22	1,473256E+23	1,037315E+23	2,510571E+23
-1604	7,366264E+22	7,366091E+22	5,186529E+22	5,186480E+22	1,473236E+23	1,037301E+23	2,510537E+23
-1603	7,366087E+22	7,366242E+22	5,186657E+22	5,186539E+22	1,473233E+23	1,037320E+23	2,510552E+23
-1602	7,366392E+22	7,366240E+22	5,186625E+22	5,186737E+22	1,473263E+23	1,037336E+23	2,510599E+23
-1601	7,366133E+22	7,366094E+22	5,186744E+22	5,186641E+22	1,473223E+23	1,037338E+23	2,510561E+23
-1600	7,366027E+22	7,366319E+22	5,186866E+22	5,186853E+22	1,473235E+23	1,037372E+23	2,510606E+23
-1599	7,366249E+22	7,366181E+22	5,186805E+22	5,186899E+22	1,473243E+23	1,037370E+23	2,510613E+23
-1598	7,365979E+22	7,366071E+22	5,186929E+22	5,186811E+22	1,473205E+23	1,037374E+23	2,510579E+23
-1597	7,366162E+22	7,366176E+22	5,186962E+22	5,186996E+22	1,473234E+23	1,037396E+23	2,510630E+23
-1596	7,366256E+22	7,366019E+22	5,186879E+22	5,186867E+22	1,473228E+23	1,037375E+23	2,510602E+23
-1595	7,365964E+22	7,366179E+22	5,186903E+22	5,186832E+22	1,473214E+23	1,037374E+23	2,510588E+23
-1594	7,366263E+22	7,366225E+22	5,186773E+22	5,186957E+22	1,473249E+23	1,037373E+23	2,510622E+23
-1593	7,366145E+22	7,366053E+22	5,186772E+22	5,186677E+22	1,473220E+23	1,037345E+23	2,510565E+23
-1592	7,366005E+22	7,366256E+22	5,186819E+22	5,186690E+22	1,473226E+23	1,037351E+23	2,510577E+23
-1591	7,366330E+22	7,366194E+22	5,186652E+22	5,186700E+22	1,473252E+23	1,037335E+23	2,510588E+23
-1590	7,366068E+22	7,366094E+22	5,186676E+22	5,186543E+22	1,473216E+23	1,037322E+23	2,510538E+23
-1589	7,366077E+22	7,366257E+22	5,186686E+22	5,186721E+22	1,473233E+23	1,037341E+23	2,510574E+23
-1588	7,366259E+22	7,366139E+22	5,186566E+22	5,186641E+22	1,473240E+23	1,037321E+23	2,510560E+23
-1587	7,365968E+22	7,366177E+22	5,186643E+22	5,186562E+22	1,473214E+23	1,037321E+23	2,510535E+23
-1586	7,366270E+22	7,366197E+22	5,186627E+22	5,186751E+22	1,473247E+23	1,037338E+23	2,510585E+23
-1585	7,366286E+22	7,366016E+22	5,186680E+22	5,186593E+22	1,473230E+23	1,037327E+23	2,510557E+23
-1584	7,365996E+22	7,366220E+22	5,186831E+22	5,186706E+22	1,473222E+23	1,037354E+23	2,510575E+23
-1583	7,366274E+22	7,366242E+22	5,186758E+22	5,186912E+22	1,473252E+23	1,037367E+23	2,510619E+23
-1582	7,366042E+22	7,366083E+22	5,186877E+22	5,186820E+22	1,473213E+23	1,037370E+23	2,510582E+23
-1581	7,365934E+22	7,366187E+22	5,187034E+22	5,187006E+22	1,473212E+23	1,037404E+23	2,510616E+23
-1580	7,366247E+22	7,366065E+22	5,186965E+22	5,187015E+22	1,473231E+23	1,037398E+23	2,510629E+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							
-1579	7,365957E+22	7,366022E+22	5,187068E+22	5,186917E+22	1,473198E+23	1,037398E+23	2,510596E+23
-1578	7,366129E+22	7,366116E+22	5,187037E+22	5,187139E+22	1,473225E+23	1,037418E+23	2,510642E+23
-1577	7,366220E+22	7,366005E+22	5,186964E+22	5,186986E+22	1,473222E+23	1,037395E+23	2,510617E+23
-1576	7,365865E+22	7,366171E+22	5,187034E+22	5,186939E+22	1,473204E+23	1,037397E+23	2,510601E+23
-1575	7,366201E+22	7,366201E+22	5,186889E+22	5,187023E+22	1,473240E+23	1,037391E+23	2,510631E+23
-1574	7,366124E+22	7,366019E+22	5,186890E+22	5,186761E+22	1,473214E+23	1,037365E+23	2,510580E+23
-1573	7,365935E+22	7,366145E+22	5,186960E+22	5,186818E+22	1,473208E+23	1,037378E+23	2,510586E+23
-1572	7,366267E+22	7,366139E+22	5,186760E+22	5,186845E+22	1,473241E+23	1,037361E+23	2,510601E+23
-1571	7,365968E+22	7,366081E+22	5,186777E+22	5,186685E+22	1,473205E+23	1,037346E+23	2,510551E+23
-1570	7,366036E+22	7,366159E+22	5,186759E+22	5,186860E+22	1,473220E+23	1,037362E+23	2,510581E+23
-1569	7,366280E+22	7,366039E+22	5,186680E+22	5,186721E+22	1,473232E+23	1,037340E+23	2,510572E+23
-1568	7,365953E+22	7,366119E+22	5,186806E+22	5,186653E+22	1,473207E+23	1,037346E+23	2,510553E+23
-1567	7,366246E+22	7,366184E+22	5,186760E+22	5,186855E+22	1,473243E+23	1,037361E+23	2,510605E+23
-1566	7,366217E+22	7,366059E+22	5,186806E+22	5,186758E+22	1,473228E+23	1,037356E+23	2,510584E+23
-1565	7,365858E+22	7,366179E+22	5,187003E+22	5,186905E+22	1,473204E+23	1,037391E+23	2,510595E+23
-1564	7,366174E+22	7,366181E+22	5,186929E+22	5,187074E+22	1,473236E+23	1,037400E+23	2,510636E+23
-1563	7,365959E+22	7,366017E+22	5,187062E+22	5,186953E+22	1,473198E+23	1,037401E+23	2,510599E+23
-1562	7,365932E+22	7,366030E+22	5,187165E+22	5,187153E+22	1,473196E+23	1,037432E+23	2,510628E+23
-1561	7,366260E+22	7,365950E+22	5,187088E+22	5,187146E+22	1,473221E+23	1,037423E+23	2,510644E+23
-1560	7,365888E+22	7,366004E+22	5,187184E+22	5,187072E+22	1,473189E+23	1,037426E+23	2,510615E+23
-1559	7,366057E+22	7,366123E+22	5,187106E+22	5,187259E+22	1,473218E+23	1,037437E+23	2,510654E+23
-1558	7,366169E+22	7,366020E+22	5,187050E+22	5,187085E+22	1,473219E+23	1,037413E+23	2,510632E+23
-1557	7,365801E+22	7,366078E+22	5,187184E+22	5,187022E+22	1,473188E+23	1,037421E+23	2,510608E+23
-1556	7,366170E+22	7,366126E+22	5,187037E+22	5,187088E+22	1,473230E+23	1,037413E+23	2,510642E+23
-1555	7,366062E+22	7,365994E+22	5,187031E+22	5,186861E+22	1,473206E+23	1,037389E+23	2,510595E+23
-1554	7,365872E+22	7,366063E+22	5,187036E+22	5,186976E+22	1,473194E+23	1,037401E+23	2,510595E+23
-1553	7,366221E+22	7,366076E+22	5,186851E+22	5,186983E+22	1,473230E+23	1,037383E+23	2,510613E+23
-1552	7,365900E+22	7,366044E+22	5,186898E+22	5,186809E+22	1,473194E+23	1,037371E+23	2,510565E+23
-1551	7,366020E+22	7,366116E+22	5,186862E+22	5,186942E+22	1,473214E+23	1,037380E+23	2,510594E+23
-1550	7,366300E+22	7,366025E+22	5,186800E+22	5,186824E+22	1,473233E+23	1,037362E+23	2,510595E+23
-1549	7,365891E+22	7,366046E+22	5,186974E+22	5,186801E+22	1,473194E+23	1,037377E+23	2,510571E+23
-1548	7,366141E+22	7,366179E+22	5,186912E+22	5,187018E+22	1,473232E+23	1,037393E+23	2,510625E+23
-1547	7,366085E+22	7,366057E+22	5,186966E+22	5,186927E+22	1,473214E+23	1,037389E+23	2,510603E+23
-1546	7,365773E+22	7,366044E+22	5,187136E+22	5,187079E+22	1,473182E+23	1,037422E+23	2,510603E+23
-1545	7,366162E+22	7,366038E+22	5,187086E+22	5,187196E+22	1,473220E+23	1,037428E+23	2,510648E+23
-1544	7,365939E+22	7,365918E+22	5,187221E+22	5,187082E+22	1,473186E+23	1,037430E+23	2,510616E+23
-1543	7,365921E+22	7,365988E+22	5,187261E+22	5,187278E+22	1,473191E+23	1,037454E+23	2,510645E+23
-1542	7,366230E+22	7,365988E+22	5,187168E+22	5,187290E+22	1,473222E+23	1,037446E+23	2,510668E+23
-1541	7,365792E+22	7,365981E+22	5,187320E+22	5,187214E+22	1,473177E+23	1,037453E+23	2,510631E+23
-1540	7,365979E+22	7,366116E+22	5,187252E+22	5,187345E+22	1,473209E+23	1,037460E+23	2,510669E+23
-1539	7,366102E+22	7,365999E+22	5,187220E+22	5,187156E+22	1,473210E+23	1,037438E+23	2,510648E+23
-1538	7,365775E+22	7,365943E+22	5,187314E+22	5,187139E+22	1,473172E+23	1,037445E+23	2,510617E+23
-1537	7,366136E+22	7,366021E+22	5,187156E+22	5,187212E+22	1,473216E+23	1,037437E+23	2,510653E+23
-1536	7,365961E+22	7,365959E+22	5,187131E+22	5,187029E+22	1,473192E+23	1,037416E+23	2,510608E+23
-1535	7,365810E+22	7,366026E+22	5,187081E+22	5,187113E+22	1,473184E+23	1,037419E+23	2,510603E+23
-1534	7,366203E+22	7,366050E+22	5,186914E+22	5,187086E+22	1,473225E+23	1,037400E+23	2,510625E+23
-1533	7,365885E+22	7,365954E+22	5,187031E+22	5,186897E+22	1,473184E+23	1,037393E+23	2,510577E+23
-1532	7,366014E+22	7,366077E+22	5,186998E+22	5,187004E+22	1,473209E+23	1,037400E+23	2,510609E+23
-1531	7,366231E+22	7,366046E+22	5,186955E+22	5,186932E+22	1,473228E+23	1,037389E+23	2,510616E+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							
-1530	7,365804E+22	7,365988E+22	5,187102E+22	5,186983E+22	1,473179E+23	1,037409E+23	2,510588E+23
-1529	7,366045E+22	7,366105E+22	5,187072E+22	5,187179E+22	1,473215E+23	1,037425E+23	2,510640E+23
-1528	7,365981E+22	7,365989E+22	5,187147E+22	5,187094E+22	1,473197E+23	1,037424E+23	2,510621E+23
-1527	7,365752E+22	7,365934E+22	5,187267E+22	5,187208E+22	1,473169E+23	1,037448E+23	2,510616E+23
-1526	7,366182E+22	7,365967E+22	5,187207E+22	5,187334E+22	1,473215E+23	1,037454E+23	2,510669E+23
-1525	7,365900E+22	7,365841E+22	5,187364E+22	5,187249E+22	1,473174E+23	1,037461E+23	2,510635E+23
-1524	7,365845E+22	7,366003E+22	5,187374E+22	5,187420E+22	1,473185E+23	1,037479E+23	2,510664E+23
-1523	7,366134E+22	7,366023E+22	5,187308E+22	5,187414E+22	1,473216E+23	1,037472E+23	2,510688E+23
-1522	7,365737E+22	7,365885E+22	5,187451E+22	5,187334E+22	1,473162E+23	1,037478E+23	2,510641E+23
-1521	7,365954E+22	7,366009E+22	5,187414E+22	5,187418E+22	1,473196E+23	1,037483E+23	2,510679E+23
-1520	7,366048E+22	7,365933E+22	5,187373E+22	5,187267E+22	1,473198E+23	1,037464E+23	2,510662E+23
-1519	7,365724E+22	7,365891E+22	5,187388E+22	5,187270E+22	1,473161E+23	1,037466E+23	2,510627E+23
-1518	7,366088E+22	7,366025E+22	5,187208E+22	5,187364E+22	1,473211E+23	1,037457E+23	2,510669E+23
-1517	7,365884E+22	7,365892E+22	5,187229E+22	5,187169E+22	1,473178E+23	1,037440E+23	2,510617E+23
-1516	7,365766E+22	7,366002E+22	5,187181E+22	5,187186E+22	1,473177E+23	1,037437E+23	2,510613E+23
-1515	7,366191E+22	7,366030E+22	5,187053E+22	5,187141E+22	1,473222E+23	1,037419E+23	2,510642E+23
-1514	7,365883E+22	7,365841E+22	5,187158E+22	5,187006E+22	1,473172E+23	1,037416E+23	2,510589E+23
-1513	7,365964E+22	7,366019E+22	5,187145E+22	5,187125E+22	1,473198E+23	1,037427E+23	2,510625E+23
-1512	7,366103E+22	7,366036E+22	5,187101E+22	5,187110E+22	1,473214E+23	1,037421E+23	2,510635E+23
-1511	7,365711E+22	7,365924E+22	5,187209E+22	5,187150E+22	1,473164E+23	1,037436E+23	2,510599E+23
-1510	7,366005E+22	7,366034E+22	5,187192E+22	5,187322E+22	1,473204E+23	1,037451E+23	2,510655E+23
-1509	7,365951E+22	7,365852E+22	5,187317E+22	5,187236E+22	1,473180E+23	1,037455E+23	2,510636E+23
-1508	7,365741E+22	7,365884E+22	5,187404E+22	5,187325E+22	1,473163E+23	1,037473E+23	2,510635E+23
-1507	7,366135E+22	7,365987E+22	5,187350E+22	5,187472E+22	1,473212E+23	1,037482E+23	2,510694E+23
-1506	7,365840E+22	7,365800E+22	5,187481E+22	5,187427E+22	1,473164E+23	1,037491E+23	2,510655E+23
-1505	7,365777E+22	7,365966E+22	5,187529E+22	5,187541E+22	1,473174E+23	1,037507E+23	2,510681E+23
-1504	7,366040E+22	7,365997E+22	5,187487E+22	5,187536E+22	1,473204E+23	1,037502E+23	2,510706E+23
-1503	7,365712E+22	7,365796E+22	5,187581E+22	5,187440E+22	1,473151E+23	1,037502E+23	2,510653E+23
-1502	7,365930E+22	7,365937E+22	5,187522E+22	5,187538E+22	1,473187E+23	1,037506E+23	2,510693E+23
-1501	7,365965E+22	7,365849E+22	5,187488E+22	5,187435E+22	1,473181E+23	1,037492E+23	2,510674E+23
-1500	7,365642E+22	7,365872E+22	5,187445E+22	5,187398E+22	1,473151E+23	1,037484E+23	2,510636E+23
-1499	7,366020E+22	7,366009E+22	5,187296E+22	5,187461E+22	1,473203E+23	1,037476E+23	2,510679E+23
-1498	7,365881E+22	7,365780E+22	5,187314E+22	5,187258E+22	1,473166E+23	1,037457E+23	2,510623E+23
-1497	7,365789E+22	7,365905E+22	5,187312E+22	5,187222E+22	1,473169E+23	1,037453E+23	2,510623E+23
-1496	7,366152E+22	7,366011E+22	5,187202E+22	5,187230E+22	1,473216E+23	1,037443E+23	2,510660E+23
-1495	7,365829E+22	7,365824E+22	5,187256E+22	5,187139E+22	1,473165E+23	1,037439E+23	2,510605E+23
-1494	7,365872E+22	7,366028E+22	5,187253E+22	5,187287E+22	1,473190E+23	1,037454E+23	2,510644E+23
-1493	7,365982E+22	7,365966E+22	5,187268E+22	5,187294E+22	1,473195E+23	1,037456E+23	2,510651E+23
-1492	7,365639E+22	7,365866E+22	5,187359E+22	5,187279E+22	1,473150E+23	1,037464E+23	2,510614E+23
-1491	7,365985E+22	7,365966E+22	5,187367E+22	5,187448E+22	1,473195E+23	1,037481E+23	2,510677E+23
-1490	7,365953E+22	7,365720E+22	5,187453E+22	5,187408E+22	1,473167E+23	1,037486E+23	2,510653E+23
-1489	7,365708E+22	7,365831E+22	5,187544E+22	5,187480E+22	1,473154E+23	1,037502E+23	2,510656E+23
-1488	7,366035E+22	7,366002E+22	5,187492E+22	5,187646E+22	1,473204E+23	1,037514E+23	2,510717E+23
-1487	7,365774E+22	7,365760E+22	5,187593E+22	5,187564E+22	1,473153E+23	1,037516E+23	2,510669E+23
-1486	7,365745E+22	7,365923E+22	5,187663E+22	5,187641E+22	1,473167E+23	1,037530E+23	2,510697E+23
-1485	7,365992E+22	7,365880E+22	5,187657E+22	5,187648E+22	1,473187E+23	1,037531E+23	2,510718E+23
-1484	7,365655E+22	7,365748E+22	5,187700E+22	5,187542E+22	1,473140E+23	1,037524E+23	2,510665E+23
-1483	7,365858E+22	7,365931E+22	5,187632E+22	5,187667E+22	1,473179E+23	1,037530E+23	2,510709E+23
-1482	7,365898E+22	7,365763E+22	5,187562E+22	5,187593E+22	1,473166E+23	1,037516E+23	2,510682E+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	7,365605E+22	7,365809E+22	5,187547E+22	5,187486E+22	1,473141E+23	1,037503E+23	2,510645E+23
-1480	7,365982E+22	7,365975E+22	5,187422E+22	5,187536E+22	1,473196E+23	1,037496E+23	2,510692E+23
-1479	7,365899E+22	7,365709E+22	5,187409E+22	5,187327E+22	1,473161E+23	1,037474E+23	2,510634E+23
-1478	7,365779E+22	7,365883E+22	5,187416E+22	5,187317E+22	1,473166E+23	1,037473E+23	2,510639E+23
-1477	7,366039E+22	7,365976E+22	5,187342E+22	5,187396E+22	1,473202E+23	1,037474E+23	2,510675E+23
-1476	7,365701E+22	7,365829E+22	5,187368E+22	5,187296E+22	1,473153E+23	1,037466E+23	2,510619E+23
-1475	7,365773E+22	7,365989E+22	5,187404E+22	5,187432E+22	1,473176E+23	1,037484E+23	2,510660E+23
-1474	7,365948E+22	7,365811E+22	5,187409E+22	5,187450E+22	1,473176E+23	1,037486E+23	2,510662E+23
-1473	7,365658E+22	7,365738E+22	5,187513E+22	5,187386E+22	1,473140E+23	1,037490E+23	2,510629E+23
-1472	7,365954E+22	7,365928E+22	5,187520E+22	5,187595E+22	1,473188E+23	1,037511E+23	2,510700E+23
-1471	7,365928E+22	7,365703E+22	5,187550E+22	5,187572E+22	1,473163E+23	1,037512E+23	2,510675E+23
-1470	7,365652E+22	7,365843E+22	5,187658E+22	5,187625E+22	1,473149E+23	1,037528E+23	2,510678E+23
-1469	7,365928E+22	7,365959E+22	5,187676E+22	5,187796E+22	1,473189E+23	1,037547E+23	2,510736E+23
-1468	7,365703E+22	7,365725E+22	5,187756E+22	5,187660E+22	1,473143E+23	1,037542E+23	2,510684E+23
-1467	7,365692E+22	7,365855E+22	5,187843E+22	5,187745E+22	1,473155E+23	1,037559E+23	2,510714E+23
-1466	7,365939E+22	7,365748E+22	5,187785E+22	5,187815E+22	1,473169E+23	1,037560E+23	2,510729E+23
-1465	7,365594E+22	7,365669E+22	5,187801E+22	5,187686E+22	1,473126E+23	1,037549E+23	2,510675E+23
-1464	7,365766E+22	7,365904E+22	5,187725E+22	5,187814E+22	1,473167E+23	1,037554E+23	2,510721E+23
-1463	7,365881E+22	7,365695E+22	5,187615E+22	5,187692E+22	1,473158E+23	1,037531E+23	2,510688E+23
-1462	7,365624E+22	7,365766E+22	5,187628E+22	5,187535E+22	1,473139E+23	1,037516E+23	2,510655E+23
-1461	7,365956E+22	7,365915E+22	5,187563E+22	5,187613E+22	1,473187E+23	1,037518E+23	2,510705E+23
-1460	7,365837E+22	7,365730E+22	5,187521E+22	5,187411E+22	1,473157E+23	1,037493E+23	2,510650E+23
-1459	7,365678E+22	7,365914E+22	5,187554E+22	5,187453E+22	1,473159E+23	1,037501E+23	2,510660E+23
-1458	7,365924E+22	7,365898E+22	5,187470E+22	5,187580E+22	1,473182E+23	1,037505E+23	2,510687E+23
-1457	7,365632E+22	7,365736E+22	5,187525E+22	5,187433E+22	1,473137E+23	1,037496E+23	2,510633E+23
-1456	7,365729E+22	7,365901E+22	5,187572E+22	5,187567E+22	1,473163E+23	1,037514E+23	2,510677E+23
-1455	7,365972E+22	7,365686E+22	5,187524E+22	5,187584E+22	1,473166E+23	1,037511E+23	2,510677E+23
-1454	7,365669E+22	7,365698E+22	5,187619E+22	5,187526E+22	1,473137E+23	1,037515E+23	2,510651E+23
-1453	7,365869E+22	7,365901E+22	5,187655E+22	5,187773E+22	1,473177E+23	1,037543E+23	2,510720E+23
-1452	7,365817E+22	7,365730E+22	5,187672E+22	5,187709E+22	1,473155E+23	1,037538E+23	2,510693E+23
-1451	7,365574E+22	7,365829E+22	5,187835E+22	5,187743E+22	1,473140E+23	1,037558E+23	2,510698E+23
-1450	7,365868E+22	7,365821E+22	5,187851E+22	5,187927E+22	1,473169E+23	1,037578E+23	2,510747E+23
-1449	7,365677E+22	7,365612E+22	5,187931E+22	5,187769E+22	1,473129E+23	1,037570E+23	2,510699E+23
-1448	7,365618E+22	7,365803E+22	5,187987E+22	5,187897E+22	1,473142E+23	1,037588E+23	2,510730E+23
-1447	7,365884E+22	7,365694E+22	5,187849E+22	5,187980E+22	1,473158E+23	1,037583E+23	2,510741E+23
-1446	7,365556E+22	7,365653E+22	5,187863E+22	5,187812E+22	1,473121E+23	1,037568E+23	2,510688E+23
-1445	7,365703E+22	7,365853E+22	5,187844E+22	5,187924E+22	1,473156E+23	1,037577E+23	2,510732E+23
-1444	7,365853E+22	7,365687E+22	5,187724E+22	5,187742E+22	1,473154E+23	1,037547E+23	2,510701E+23
-1443	7,365614E+22	7,365743E+22	5,187775E+22	5,187602E+22	1,473136E+23	1,037538E+23	2,510673E+23
-1442	7,365885E+22	7,365838E+22	5,187690E+22	5,187752E+22	1,473172E+23	1,037544E+23	2,510717E+23
-1441	7,365747E+22	7,365690E+22	5,187645E+22	5,187553E+22	1,473144E+23	1,037520E+23	2,510664E+23
-1440	7,365552E+22	7,365873E+22	5,187690E+22	5,187614E+22	1,473142E+23	1,037530E+23	2,510673E+23
-1439	7,365888E+22	7,365785E+22	5,187568E+22	5,187719E+22	1,473167E+23	1,037529E+23	2,510696E+23
-1438	7,365657E+22	7,365629E+22	5,187629E+22	5,187527E+22	1,473129E+23	1,037516E+23	2,510644E+23
-1437	7,365714E+22	7,365805E+22	5,187718E+22	5,187696E+22	1,473152E+23	1,037541E+23	2,510693E+23
-1436	7,365930E+22	7,365703E+22	5,187631E+22	5,187702E+22	1,473163E+23	1,037533E+23	2,510697E+23
-1435	7,365596E+22	7,365735E+22	5,187764E+22	5,187672E+22	1,473133E+23	1,037544E+23	2,510677E+23
-1434	7,365758E+22	7,365854E+22	5,187816E+22	5,187945E+22	1,473161E+23	1,037576E+23	2,510737E+23
-1433	7,365743E+22	7,365670E+22	5,187866E+22	5,187834E+22	1,473141E+23	1,037570E+23	2,510711E+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	7,365500E+22	7,365753E+22	5,188043E+22	5,187881E+22	1,473125E+23	1,037592E+23	2,510718E+23
-1431	7,365843E+22	7,365695E+22	5,187985E+22	5,188081E+22	1,473154E+23	1,037607E+23	2,510761E+23
-1430	7,365644E+22	7,365546E+22	5,188030E+22	5,187931E+22	1,473119E+23	1,037596E+23	2,510715E+23
-1429	7,365520E+22	7,365751E+22	5,188090E+22	5,188085E+22	1,473127E+23	1,037618E+23	2,510745E+23
-1428	7,365804E+22	7,365693E+22	5,187921E+22	5,188093E+22	1,473150E+23	1,037601E+23	2,510751E+23
-1427	7,365543E+22	7,365633E+22	5,187981E+22	5,187883E+22	1,473118E+23	1,037586E+23	2,510704E+23
-1426	7,365693E+22	7,365750E+22	5,187968E+22	5,187996E+22	1,473144E+23	1,037596E+23	2,510741E+23
-1425	7,365843E+22	7,365637E+22	5,187864E+22	5,187801E+22	1,473148E+23	1,037566E+23	2,510715E+23
-1424	7,365537E+22	7,365742E+22	5,187915E+22	5,187724E+22	1,473128E+23	1,037564E+23	2,510692E+23
-1423	7,365794E+22	7,365789E+22	5,187774E+22	5,187901E+22	1,473158E+23	1,037567E+23	2,510726E+23
-1422	7,365679E+22	7,365647E+22	5,187744E+22	5,187689E+22	1,473133E+23	1,037543E+23	2,510676E+23
-1421	7,365481E+22	7,365772E+22	5,187828E+22	5,187753E+22	1,473125E+23	1,037558E+23	2,510683E+23
-1420	7,365855E+22	7,365720E+22	5,187684E+22	5,187810E+22	1,473158E+23	1,037549E+23	2,510707E+23
-1419	7,365667E+22	7,365585E+22	5,187766E+22	5,187643E+22	1,473125E+23	1,037541E+23	2,510666E+23
-1418	7,365655E+22	7,365734E+22	5,187837E+22	5,187866E+22	1,473139E+23	1,037570E+23	2,510709E+23
-1417	7,365848E+22	7,365695E+22	5,187768E+22	5,187857E+22	1,473154E+23	1,037562E+23	2,510717E+23
-1416	7,365490E+22	7,365718E+22	5,187939E+22	5,187830E+22	1,473121E+23	1,037577E+23	2,510698E+23
-1415	7,365700E+22	7,365754E+22	5,187967E+22	5,188080E+22	1,473145E+23	1,037605E+23	2,510750E+23
-1414	7,365733E+22	7,365576E+22	5,188023E+22	5,187951E+22	1,473131E+23	1,037597E+23	2,510728E+23
-1413	7,365440E+22	7,365653E+22	5,188210E+22	5,188046E+22	1,473109E+23	1,037626E+23	2,510735E+23
-1412	7,365762E+22	7,365686E+22	5,188090E+22	5,188230E+22	1,473145E+23	1,037632E+23	2,510777E+23
-1411	7,365589E+22	7,365545E+22	5,188141E+22	5,188085E+22	1,473113E+23	1,037623E+23	2,510736E+23
-1410	7,365451E+22	7,365678E+22	5,188203E+22	5,188231E+22	1,473113E+23	1,037643E+23	2,510756E+23
-1409	7,365787E+22	7,365643E+22	5,188060E+22	5,188165E+22	1,473143E+23	1,037622E+23	2,510765E+23
-1408	7,365522E+22	7,365585E+22	5,188142E+22	5,187955E+22	1,473111E+23	1,037610E+23	2,510720E+23
-1407	7,365680E+22	7,365673E+22	5,188076E+22	5,188093E+22	1,473135E+23	1,037617E+23	2,510752E+23
-1406	7,365794E+22	7,365607E+22	5,187949E+22	5,187920E+22	1,473140E+23	1,037587E+23	2,510727E+23
-1405	7,365402E+22	7,365695E+22	5,188022E+22	5,187896E+22	1,473110E+23	1,037592E+23	2,510702E+23
-1404	7,365684E+22	7,365762E+22	5,187858E+22	5,188017E+22	1,473145E+23	1,037587E+23	2,510732E+23
-1403	7,365658E+22	7,365575E+22	5,187864E+22	5,187790E+22	1,473123E+23	1,037565E+23	2,510689E+23
-1402	7,365470E+22	7,365641E+22	5,187948E+22	5,187869E+22	1,473111E+23	1,037582E+23	2,510693E+23
-1401	7,365857E+22	7,365662E+22	5,187813E+22	5,187910E+22	1,473152E+23	1,037572E+23	2,510724E+23
-1400	7,365608E+22	7,365596E+22	5,187907E+22	5,187787E+22	1,473120E+23	1,037569E+23	2,510690E+23
-1399	7,365584E+22	7,365711E+22	5,187948E+22	5,188022E+22	1,473129E+23	1,037597E+23	2,510726E+23
-1398	7,365785E+22	7,365672E+22	5,187916E+22	5,187993E+22	1,473146E+23	1,037591E+23	2,510737E+23
-1397	7,365405E+22	7,365639E+22	5,188140E+22	5,187990E+22	1,473104E+23	1,037613E+23	2,510717E+23
-1396	7,365635E+22	7,365688E+22	5,188136E+22	5,188200E+22	1,473132E+23	1,037634E+23	2,510766E+23
-1395	7,365709E+22	7,365512E+22	5,188188E+22	5,188116E+22	1,473122E+23	1,037630E+23	2,510753E+23
-1394	7,365359E+22	7,365557E+22	5,188329E+22	5,188250E+22	1,473092E+23	1,037658E+23	2,510749E+23
-1393	7,365689E+22	7,365643E+22	5,188204E+22	5,188386E+22	1,473133E+23	1,037659E+23	2,510792E+23
-1392	7,365541E+22	7,365514E+22	5,188273E+22	5,188208E+22	1,473105E+23	1,037648E+23	2,510754E+23
-1391	7,365455E+22	7,365579E+22	5,188300E+22	5,188305E+22	1,473103E+23	1,037661E+23	2,510764E+23
-1390	7,365808E+22	7,365587E+22	5,188174E+22	5,188217E+22	1,473139E+23	1,037639E+23	2,510779E+23
-1389	7,365465E+22	7,365545E+22	5,188273E+22	5,188068E+22	1,473101E+23	1,037634E+23	2,510735E+23
-1388	7,365555E+22	7,365694E+22	5,188164E+22	5,188199E+22	1,473125E+23	1,037636E+23	2,510761E+23
-1387	7,365700E+22	7,365612E+22	5,188057E+22	5,188064E+22	1,473131E+23	1,037612E+23	2,510743E+23
-1386	7,365304E+22	7,365590E+22	5,188135E+22	5,188046E+22	1,473089E+23	1,037618E+23	2,510707E+23
-1385	7,365656E+22	7,365667E+22	5,187990E+22	5,188110E+22	1,473132E+23	1,037610E+23	2,510742E+23
-1384	7,365663E+22	7,365494E+22	5,188008E+22	5,187893E+22	1,473116E+23	1,037590E+23	2,510706E+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	7,365477E+22	7,365553E+22	5,188036E+22	5,187995E+22	1,473103E+23	1,037603E+23	2,510706E+23
-1382	7,365825E+22	7,365654E+22	5,187907E+22	5,188046E+22	1,473148E+23	1,037595E+23	2,510743E+23
-1381	7,365500E+22	7,365582E+22	5,188047E+22	5,187963E+22	1,473108E+23	1,037601E+23	2,510709E+23
-1380	7,365477E+22	7,365699E+22	5,188094E+22	5,188135E+22	1,473118E+23	1,037623E+23	2,510741E+23
-1379	7,365755E+22	7,365612E+22	5,188100E+22	5,188117E+22	1,473137E+23	1,037622E+23	2,510758E+23
-1378	7,365356E+22	7,365501E+22	5,188321E+22	5,188150E+22	1,473086E+23	1,037647E+23	2,510733E+23
-1377	7,365592E+22	7,365616E+22	5,188297E+22	5,188353E+22	1,473121E+23	1,037665E+23	2,510786E+23
-1376	7,365633E+22	7,365484E+22	5,188334E+22	5,188296E+22	1,473112E+23	1,037663E+23	2,510775E+23
-1375	7,365307E+22	7,365498E+22	5,188418E+22	5,188417E+22	1,473081E+23	1,037683E+23	2,510764E+23
-1374	7,365670E+22	7,365597E+22	5,188314E+22	5,188490E+22	1,473127E+23	1,037680E+23	2,510807E+23
-1373	7,365495E+22	7,365456E+22	5,188424E+22	5,188315E+22	1,473095E+23	1,037674E+23	2,510769E+23
-1372	7,365414E+22	7,365556E+22	5,188425E+22	5,188365E+22	1,473097E+23	1,037679E+23	2,510776E+23
-1371	7,365769E+22	7,365572E+22	5,188299E+22	5,188333E+22	1,473134E+23	1,037663E+23	2,510797E+23
-1370	7,365342E+22	7,365483E+22	5,188377E+22	5,188241E+22	1,473082E+23	1,037662E+23	2,510744E+23
-1369	7,365445E+22	7,365647E+22	5,188268E+22	5,188330E+22	1,473109E+23	1,037660E+23	2,510769E+23
-1368	7,365633E+22	7,365539E+22	5,188186E+22	5,188178E+22	1,473117E+23	1,037636E+23	2,510754E+23
-1367	7,365321E+22	7,365455E+22	5,188216E+22	5,188135E+22	1,473078E+23	1,037635E+23	2,510713E+23
-1366	7,365701E+22	7,365580E+22	5,188087E+22	5,188181E+22	1,473128E+23	1,037627E+23	2,510755E+23
-1365	7,365632E+22	7,365471E+22	5,188123E+22	5,188026E+22	1,473110E+23	1,037615E+23	2,510725E+23
-1364	7,365392E+22	7,365595E+22	5,188133E+22	5,188103E+22	1,473099E+23	1,037624E+23	2,510722E+23
-1363	7,365754E+22	7,365684E+22	5,188051E+22	5,188190E+22	1,473144E+23	1,037624E+23	2,510768E+23
-1362	7,365398E+22	7,365508E+22	5,188227E+22	5,188127E+22	1,473091E+23	1,037635E+23	2,510726E+23
-1361	7,365408E+22	7,365616E+22	5,188296E+22	5,188260E+22	1,473102E+23	1,037656E+23	2,510758E+23
-1360	7,365715E+22	7,365521E+22	5,188305E+22	5,188277E+22	1,473124E+23	1,037658E+23	2,510782E+23
-1359	7,365324E+22	7,365375E+22	5,188433E+22	5,188338E+22	1,473070E+23	1,037677E+23	2,510747E+23
-1358	7,365539E+22	7,365556E+22	5,188395E+22	5,188531E+22	1,473110E+23	1,037693E+23	2,510802E+23
-1357	7,365550E+22	7,365443E+22	5,188447E+22	5,188478E+22	1,473099E+23	1,037692E+23	2,510792E+23
-1356	7,365250E+22	7,365470E+22	5,188522E+22	5,188498E+22	1,473072E+23	1,037702E+23	2,510774E+23
-1355	7,365680E+22	7,365566E+22	5,188455E+22	5,188568E+22	1,473125E+23	1,037702E+23	2,510827E+23
-1354	7,365452E+22	7,365376E+22	5,188571E+22	5,188423E+22	1,473083E+23	1,037699E+23	2,510782E+23
-1353	7,365336E+22	7,365537E+22	5,188564E+22	5,188467E+22	1,473087E+23	1,037703E+23	2,510790E+23
-1352	7,365662E+22	7,365564E+22	5,188435E+22	5,188475E+22	1,473123E+23	1,037691E+23	2,510814E+23
-1351	7,365265E+22	7,365393E+22	5,188461E+22	5,188387E+22	1,473066E+23	1,037685E+23	2,510751E+23
-1350	7,365419E+22	7,365554E+22	5,188374E+22	5,188428E+22	1,473097E+23	1,037680E+23	2,510777E+23
-1349	7,365613E+22	7,365447E+22	5,188312E+22	5,188290E+22	1,473106E+23	1,037660E+23	2,510766E+23
-1348	7,365318E+22	7,365412E+22	5,188308E+22	5,188204E+22	1,473073E+23	1,037651E+23	2,510724E+23
-1347	7,365695E+22	7,365585E+22	5,188185E+22	5,188305E+22	1,473128E+23	1,037649E+23	2,510777E+23
-1346	7,365524E+22	7,365452E+22	5,188236E+22	5,188198E+22	1,473098E+23	1,037643E+23	2,510741E+23
-1345	7,365291E+22	7,365586E+22	5,188282E+22	5,188231E+22	1,473088E+23	1,037651E+23	2,510739E+23
-1344	7,365672E+22	7,365625E+22	5,188245E+22	5,188313E+22	1,473130E+23	1,037656E+23	2,510785E+23
-1343	7,365373E+22	7,365369E+22	5,188379E+22	5,188266E+22	1,473074E+23	1,037664E+23	2,510739E+23
-1342	7,365401E+22	7,365499E+22	5,188446E+22	5,188395E+22	1,473090E+23	1,037684E+23	2,510774E+23
-1341	7,365632E+22	7,365462E+22	5,188444E+22	5,188475E+22	1,473109E+23	1,037692E+23	2,510801E+23
-1340	7,365240E+22	7,365373E+22	5,188525E+22	5,188491E+22	1,473061E+23	1,037702E+23	2,510763E+23
-1339	7,365502E+22	7,365549E+22	5,188514E+22	5,188682E+22	1,473105E+23	1,037720E+23	2,510825E+23
-1338	7,365486E+22	7,365379E+22	5,188601E+22	5,188613E+22	1,473086E+23	1,037721E+23	2,510808E+23
-1337	7,365225E+22	7,365421E+22	5,188697E+22	5,188572E+22	1,473065E+23	1,037727E+23	2,510791E+23
-1336	7,365640E+22	7,365519E+22	5,188644E+22	5,188671E+22	1,473116E+23	1,037732E+23	2,510847E+23
-1335	7,365387E+22	7,365301E+22	5,188678E+22	5,188576E+22	1,473069E+23	1,037725E+23	2,510794E+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	7,365245E+22	7,365481E+22	5,188662E+22	5,188613E+22	1,473073E+23	1,037728E+23	2,510800E+23
-1333	7,365550E+22	7,365503E+22	5,188543E+22	5,188635E+22	1,473105E+23	1,037718E+23	2,510823E+23
-1332	7,365226E+22	7,365321E+22	5,188539E+22	5,188458E+22	1,473055E+23	1,037700E+23	2,510754E+23
-1331	7,365459E+22	7,365488E+22	5,188471E+22	5,188508E+22	1,473095E+23	1,037698E+23	2,510793E+23
-1330	7,365595E+22	7,365380E+22	5,188419E+22	5,188402E+22	1,473098E+23	1,037682E+23	2,510780E+23
-1329	7,365262E+22	7,365429E+22	5,188419E+22	5,188301E+22	1,473069E+23	1,037672E+23	2,510741E+23
-1328	7,365602E+22	7,365617E+22	5,188333E+22	5,188434E+22	1,473122E+23	1,037677E+23	2,510799E+23
-1327	7,365444E+22	7,365389E+22	5,188358E+22	5,188342E+22	1,473083E+23	1,037670E+23	2,510753E+23
-1326	7,365231E+22	7,365492E+22	5,188449E+22	5,188349E+22	1,473072E+23	1,037680E+23	2,510752E+23
-1325	7,365606E+22	7,365525E+22	5,188425E+22	5,188471E+22	1,473113E+23	1,037690E+23	2,510803E+23
-1324	7,365330E+22	7,365280E+22	5,188508E+22	5,188403E+22	1,473061E+23	1,037691E+23	2,510752E+23
-1323	7,365370E+22	7,365458E+22	5,188556E+22	5,188586E+22	1,473083E+23	1,037714E+23	2,510797E+23
-1322	7,365531E+22	7,365405E+22	5,188559E+22	5,188679E+22	1,473094E+23	1,037724E+23	2,510817E+23
-1321	7,365176E+22	7,365346E+22	5,188664E+22	5,188613E+22	1,473052E+23	1,037728E+23	2,510780E+23
-1320	7,365473E+22	7,365505E+22	5,188699E+22	5,188774E+22	1,473098E+23	1,037747E+23	2,510845E+23
-1319	7,365484E+22	7,365280E+22	5,188747E+22	5,188714E+22	1,473076E+23	1,037746E+23	2,510823E+23
-1318	7,365204E+22	7,365356E+22	5,188854E+22	5,188678E+22	1,473056E+23	1,037753E+23	2,510809E+23
-1317	7,365521E+22	7,365501E+22	5,188785E+22	5,188839E+22	1,473102E+23	1,037762E+23	2,510865E+23
-1316	7,365276E+22	7,365288E+22	5,188772E+22	5,188714E+22	1,473056E+23	1,037749E+23	2,510805E+23
-1315	7,365194E+22	7,365441E+22	5,188761E+22	5,188755E+22	1,473064E+23	1,037752E+23	2,510815E+23
-1314	7,365483E+22	7,365407E+22	5,188664E+22	5,188765E+22	1,473089E+23	1,037743E+23	2,510832E+23
-1313	7,365232E+22	7,365260E+22	5,188660E+22	5,188528E+22	1,473049E+23	1,037719E+23	2,510768E+23
-1312	7,365455E+22	7,365445E+22	5,188600E+22	5,188597E+22	1,473090E+23	1,037720E+23	2,510810E+23
-1311	7,365546E+22	7,365340E+22	5,188491E+22	5,188538E+22	1,473089E+23	1,037703E+23	2,510791E+23
-1310	7,365193E+22	7,365398E+22	5,188522E+22	5,188423E+22	1,473059E+23	1,037695E+23	2,510754E+23
-1309	7,365478E+22	7,365572E+22	5,188479E+22	5,188569E+22	1,473105E+23	1,037705E+23	2,510810E+23
-1308	7,365387E+22	7,365317E+22	5,188492E+22	5,188431E+22	1,473070E+23	1,037692E+23	2,510763E+23
-1307	7,365235E+22	7,365401E+22	5,188591E+22	5,188477E+22	1,473064E+23	1,037707E+23	2,510770E+23
-1306	7,365535E+22	7,365432E+22	5,188572E+22	5,188648E+22	1,473097E+23	1,037722E+23	2,510819E+23
-1305	7,365265E+22	7,365263E+22	5,188634E+22	5,188557E+22	1,473053E+23	1,037719E+23	2,510772E+23
-1304	7,365301E+22	7,365447E+22	5,188709E+22	5,188746E+22	1,473075E+23	1,037745E+23	2,510820E+23
-1303	7,365483E+22	7,365340E+22	5,188690E+22	5,188831E+22	1,473082E+23	1,037752E+23	2,510834E+23
-1302	7,365163E+22	7,365271E+22	5,188841E+22	5,188715E+22	1,473043E+23	1,037756E+23	2,510799E+23
-1301	7,365418E+22	7,365447E+22	5,188894E+22	5,188905E+22	1,473086E+23	1,037780E+23	2,510866E+23
-1300	7,365428E+22	7,365238E+22	5,188884E+22	5,188840E+22	1,473067E+23	1,037772E+23	2,510839E+23
-1299	7,365130E+22	7,365338E+22	5,188962E+22	5,188863E+22	1,473047E+23	1,037783E+23	2,510829E+23
-1298	7,365377E+22	7,365442E+22	5,188897E+22	5,189033E+22	1,473082E+23	1,037793E+23	2,510875E+23
-1297	7,365201E+22	7,365223E+22	5,188881E+22	5,188822E+22	1,473042E+23	1,037770E+23	2,510813E+23
-1296	7,365190E+22	7,365358E+22	5,188896E+22	5,188833E+22	1,473055E+23	1,037773E+23	2,510828E+23
-1295	7,365511E+22	7,365289E+22	5,188746E+22	5,188845E+22	1,473080E+23	1,037759E+23	2,510839E+23
-1294	7,365237E+22	7,365205E+22	5,188757E+22	5,188601E+22	1,473044E+23	1,037736E+23	2,510780E+23
-1293	7,365364E+22	7,365465E+22	5,188705E+22	5,188721E+22	1,473083E+23	1,037743E+23	2,510825E+23
-1292	7,365455E+22	7,365346E+22	5,188581E+22	5,188637E+22	1,473080E+23	1,037722E+23	2,510802E+23
-1291	7,365139E+22	7,365372E+22	5,188650E+22	5,188552E+22	1,473051E+23	1,037720E+23	2,510771E+23
-1290	7,365381E+22	7,365476E+22	5,188648E+22	5,188708E+22	1,473086E+23	1,037736E+23	2,510821E+23
-1289	7,365350E+22	7,365232E+22	5,188659E+22	5,188548E+22	1,473058E+23	1,037721E+23	2,510779E+23
-1288	7,365201E+22	7,365333E+22	5,188753E+22	5,188637E+22	1,473053E+23	1,037739E+23	2,510792E+23
-1287	7,365469E+22	7,365355E+22	5,188667E+22	5,188848E+22	1,473082E+23	1,037751E+23	2,510834E+23
-1286	7,365217E+22	7,365207E+22	5,188756E+22	5,188717E+22	1,473042E+23	1,037747E+23	2,510790E+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							
-1285	7,365230E+22	7,365406E+22	5,188865E+22	5,188888E+22	1,473064E+23	1,037775E+23	2,510839E+23
-1284	7,365465E+22	7,365289E+22	5,188837E+22	5,188920E+22	1,473075E+23	1,037776E+23	2,510851E+23
-1283	7,365173E+22	7,365229E+22	5,188997E+22	5,188844E+22	1,473040E+23	1,037784E+23	2,510824E+23
-1282	7,365300E+22	7,365403E+22	5,189060E+22	5,189075E+22	1,473070E+23	1,037814E+23	2,510884E+23
-1281	7,365320E+22	7,365238E+22	5,189024E+22	5,188996E+22	1,473056E+23	1,037802E+23	2,510858E+23
-1280	7,365042E+22	7,365291E+22	5,189107E+22	5,189014E+22	1,473033E+23	1,037812E+23	2,510845E+23
-1279	7,365316E+22	7,365327E+22	5,188998E+22	5,189169E+22	1,473064E+23	1,037817E+23	2,510881E+23
-1278	7,365223E+22	7,365106E+22	5,189000E+22	5,188899E+22	1,473033E+23	1,037790E+23	2,510823E+23
-1277	7,365179E+22	7,365285E+22	5,189013E+22	5,188924E+22	1,473046E+23	1,037794E+23	2,510840E+23
-1276	7,365491E+22	7,365270E+22	5,188817E+22	5,188928E+22	1,473076E+23	1,037774E+23	2,510851E+23
-1275	7,365195E+22	7,365224E+22	5,188823E+22	5,188734E+22	1,473042E+23	1,037756E+23	2,510798E+23
-1274	7,365218E+22	7,365442E+22	5,188824E+22	5,188859E+22	1,473066E+23	1,037768E+23	2,510834E+23
-1273	7,365373E+22	7,365309E+22	5,188722E+22	5,188724E+22	1,473068E+23	1,037745E+23	2,510813E+23
-1272	7,365111E+22	7,365281E+22	5,188825E+22	5,188652E+22	1,473039E+23	1,037748E+23	2,510787E+23
-1271	7,365354E+22	7,365347E+22	5,188775E+22	5,188850E+22	1,473070E+23	1,037763E+23	2,510833E+23
-1270	7,365329E+22	7,365150E+22	5,188785E+22	5,188699E+22	1,473048E+23	1,037748E+23	2,510796E+23
-1269	7,365114E+22	7,365319E+22	5,188874E+22	5,188821E+22	1,473043E+23	1,037770E+23	2,510813E+23
-1268	7,365412E+22	7,365334E+22	5,188771E+22	5,188989E+22	1,473075E+23	1,037776E+23	2,510851E+23
-1267	7,365202E+22	7,365186E+22	5,188894E+22	5,188860E+22	1,473039E+23	1,037775E+23	2,510814E+23
-1266	7,365161E+22	7,365343E+22	5,189058E+22	5,189023E+22	1,473050E+23	1,037808E+23	2,510859E+23
-1265	7,365423E+22	7,365239E+22	5,189024E+22	5,189034E+22	1,473066E+23	1,037806E+23	2,510872E+23
-1264	7,365106E+22	7,365187E+22	5,189180E+22	5,189010E+22	1,473029E+23	1,037819E+23	2,510848E+23
-1263	7,365184E+22	7,365319E+22	5,189168E+22	5,189270E+22	1,473050E+23	1,037844E+23	2,510894E+23
-1262	7,365244E+22	7,365134E+22	5,189146E+22	5,189144E+22	1,473038E+23	1,037829E+23	2,510867E+23
-1261	7,364984E+22	7,365204E+22	5,189230E+22	5,189134E+22	1,473019E+23	1,037836E+23	2,510855E+23
-1260	7,365337E+22	7,365229E+22	5,189085E+22	5,189229E+22	1,473057E+23	1,037831E+23	2,510888E+23
-1259	7,365269E+22	7,365072E+22	5,189078E+22	5,188986E+22	1,473034E+23	1,037806E+23	2,510841E+23
-1258	7,365099E+22	7,365283E+22	5,189115E+22	5,189037E+22	1,473038E+23	1,037815E+23	2,510853E+23
-1257	7,365395E+22	7,365315E+22	5,188923E+22	5,189023E+22	1,473071E+23	1,037795E+23	2,510866E+23
-1256	7,365107E+22	7,365226E+22	5,188975E+22	5,188851E+22	1,473033E+23	1,037783E+23	2,510816E+23
-1255	7,365122E+22	7,365349E+22	5,188958E+22	5,188985E+22	1,473047E+23	1,037794E+23	2,510841E+23
-1254	7,365354E+22	7,365183E+22	5,188885E+22	5,188837E+22	1,473054E+23	1,037772E+23	2,510826E+23
-1253	7,365072E+22	7,365183E+22	5,188970E+22	5,188802E+22	1,473026E+23	1,037777E+23	2,510803E+23
-1252	7,365320E+22	7,365281E+22	5,188859E+22	5,189007E+22	1,473060E+23	1,037787E+23	2,510847E+23
-1251	7,365302E+22	7,365141E+22	5,188854E+22	5,188885E+22	1,473044E+23	1,037774E+23	2,510818E+23
-1250	7,365010E+22	7,365281E+22	5,189002E+22	5,188979E+22	1,473029E+23	1,037798E+23	2,510827E+23
-1249	7,365373E+22	7,365311E+22	5,188935E+22	5,189079E+22	1,473068E+23	1,037801E+23	2,510870E+23
-1248	7,365200E+22	7,365127E+22	5,189095E+22	5,188958E+22	1,473033E+23	1,037805E+23	2,510838E+23
-1247	7,365095E+22	7,365250E+22	5,189223E+22	5,189167E+22	1,473035E+23	1,037839E+23	2,510874E+23
-1246	7,365356E+22	7,365177E+22	5,189187E+22	5,189195E+22	1,473053E+23	1,037838E+23	2,510891E+23
-1245	7,364982E+22	7,365145E+22	5,189324E+22	5,189200E+22	1,473013E+23	1,037852E+23	2,510865E+23
-1244	7,365109E+22	7,365246E+22	5,189273E+22	5,189414E+22	1,473036E+23	1,037869E+23	2,510904E+23
-1243	7,365243E+22	7,365070E+22	5,189244E+22	5,189274E+22	1,473031E+23	1,037852E+23	2,510883E+23
-1242	7,364948E+22	7,365123E+22	5,189361E+22	5,189241E+22	1,473007E+23	1,037860E+23	2,510867E+23
-1241	7,365327E+22	7,365207E+22	5,189203E+22	5,189306E+22	1,473053E+23	1,037851E+23	2,510904E+23
-1240	7,365224E+22	7,365085E+22	5,189198E+22	5,189104E+22	1,473031E+23	1,037830E+23	2,510861E+23
-1239	7,364982E+22	7,365254E+22	5,189204E+22	5,189178E+22	1,473024E+23	1,037838E+23	2,510862E+23
-1238	7,365318E+22	7,365246E+22	5,189053E+22	5,189129E+22	1,473056E+23	1,037818E+23	2,510875E+23
-1237	7,365038E+22	7,365143E+22	5,189123E+22	5,188962E+22	1,473018E+23	1,037809E+23	2,510827E+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	7,365114E+22	7,365230E+22	5,189069E+22	5,189078E+22	1,473034E+23	1,037815E+23	2,510849E+23
-1235	7,365362E+22	7,365120E+22	5,188976E+22	5,188979E+22	1,473048E+23	1,037796E+23	2,510844E+23
-1234	7,364992E+22	7,365154E+22	5,189075E+22	5,188970E+22	1,473015E+23	1,037805E+23	2,510819E+23
-1233	7,365255E+22	7,365284E+22	5,188966E+22	5,189133E+22	1,473054E+23	1,037810E+23	2,510864E+23
-1232	7,365256E+22	7,365134E+22	5,189011E+22	5,189013E+22	1,473039E+23	1,037802E+23	2,510841E+23
-1231	7,364953E+22	7,365201E+22	5,189161E+22	5,189098E+22	1,473015E+23	1,037826E+23	2,510841E+23
-1230	7,365354E+22	7,365205E+22	5,189138E+22	5,189186E+22	1,473056E+23	1,037832E+23	2,510888E+23
-1229	7,365130E+22	7,365066E+22	5,189291E+22	5,189125E+22	1,473020E+23	1,037842E+23	2,510861E+23
-1228	7,365003E+22	7,365187E+22	5,189346E+22	5,189351E+22	1,473019E+23	1,037870E+23	2,510889E+23
-1227	7,365272E+22	7,365140E+22	5,189283E+22	5,189403E+22	1,473041E+23	1,037869E+23	2,510910E+23
-1226	7,364875E+22	7,365065E+22	5,189452E+22	5,189369E+22	1,472994E+23	1,037882E+23	2,510876E+23
-1225	7,365088E+22	7,365175E+22	5,189403E+22	5,189499E+22	1,473026E+23	1,037890E+23	2,510917E+23
-1224	7,365271E+22	7,365021E+22	5,189388E+22	5,189361E+22	1,473029E+23	1,037875E+23	2,510904E+23
-1223	7,364912E+22	7,365069E+22	5,189467E+22	5,189348E+22	1,472998E+23	1,037882E+23	2,510880E+23
-1222	7,365276E+22	7,365190E+22	5,189328E+22	5,189414E+22	1,473047E+23	1,037874E+23	2,510921E+23
-1221	7,365114E+22	7,365091E+22	5,189329E+22	5,189234E+22	1,473020E+23	1,037856E+23	2,510877E+23
-1220	7,364898E+22	7,365197E+22	5,189313E+22	5,189285E+22	1,473010E+23	1,037860E+23	2,510869E+23
-1219	7,365293E+22	7,365180E+22	5,189163E+22	5,189246E+22	1,473047E+23	1,037841E+23	2,510888E+23
-1218	7,364983E+22	7,365030E+22	5,189262E+22	5,189086E+22	1,473001E+23	1,037835E+23	2,510836E+23
-1217	7,365088E+22	7,365171E+22	5,189185E+22	5,189193E+22	1,473026E+23	1,037838E+23	2,510864E+23
-1216	7,365324E+22	7,365103E+22	5,189079E+22	5,189133E+22	1,473043E+23	1,037821E+23	2,510864E+23
-1215	7,364893E+22	7,365102E+22	5,189160E+22	5,189124E+22	1,472999E+23	1,037828E+23	2,510828E+23
-1214	7,365216E+22	7,365217E+22	5,189111E+22	5,189238E+22	1,473043E+23	1,037835E+23	2,510878E+23
-1213	7,365213E+22	7,365075E+22	5,189190E+22	5,189118E+22	1,473029E+23	1,037831E+23	2,510860E+23
-1212	7,364933E+22	7,365114E+22	5,189319E+22	5,189209E+22	1,473005E+23	1,037853E+23	2,510858E+23
-1211	7,365312E+22	7,365173E+22	5,189276E+22	5,189354E+22	1,473048E+23	1,037863E+23	2,510912E+23
-1210	7,364990E+22	7,365033E+22	5,189447E+22	5,189332E+22	1,473002E+23	1,037878E+23	2,510880E+23
-1209	7,364896E+22	7,365160E+22	5,189488E+22	5,189518E+22	1,473006E+23	1,037901E+23	2,510906E+23
-1208	7,365215E+22	7,365093E+22	5,189441E+22	5,189560E+22	1,473031E+23	1,037900E+23	2,510931E+23
-1207	7,364836E+22	7,364956E+22	5,189586E+22	5,189498E+22	1,472979E+23	1,037908E+23	2,510888E+23
-1206	7,365116E+22	7,365066E+22	5,189559E+22	5,189592E+22	1,473018E+23	1,037915E+23	2,510933E+23
-1205	7,365234E+22	7,364996E+22	5,189528E+22	5,189485E+22	1,473023E+23	1,037901E+23	2,510924E+23
-1204	7,364849E+22	7,365049E+22	5,189550E+22	5,189477E+22	1,472990E+23	1,037903E+23	2,510892E+23
-1203	7,365192E+22	7,365184E+22	5,189411E+22	5,189548E+22	1,473038E+23	1,037896E+23	2,510933E+23
-1202	7,365004E+22	7,365030E+22	5,189465E+22	5,189355E+22	1,473003E+23	1,037882E+23	2,510885E+23
-1201	7,364859E+22	7,365108E+22	5,189443E+22	5,189350E+22	1,472997E+23	1,037879E+23	2,510876E+23
-1200	7,365281E+22	7,365109E+22	5,189295E+22	5,189348E+22	1,473039E+23	1,037864E+23	2,510903E+23
-1199	7,364931E+22	7,364953E+22	5,189347E+22	5,189223E+22	1,472988E+23	1,037857E+23	2,510845E+23
-1198	7,365046E+22	7,365119E+22	5,189287E+22	5,189323E+22	1,473017E+23	1,037861E+23	2,510878E+23
-1197	7,365242E+22	7,365104E+22	5,189205E+22	5,189271E+22	1,473035E+23	1,037848E+23	2,510882E+23
-1196	7,364850E+22	7,365052E+22	5,189281E+22	5,189234E+22	1,472990E+23	1,037851E+23	2,510842E+23
-1195	7,365196E+22	7,365172E+22	5,189259E+22	5,189352E+22	1,473037E+23	1,037861E+23	2,510898E+23
-1194	7,365143E+22	7,365005E+22	5,189382E+22	5,189268E+22	1,473015E+23	1,037865E+23	2,510880E+23
-1193	7,364854E+22	7,365072E+22	5,189486E+22	5,189369E+22	1,472993E+23	1,037886E+23	2,510878E+23
-1192	7,365210E+22	7,365158E+22	5,189426E+22	5,189563E+22	1,473037E+23	1,037899E+23	2,510936E+23
-1191	7,364871E+22	7,364941E+22	5,189571E+22	5,189530E+22	1,472981E+23	1,037910E+23	2,510891E+23
-1190	7,364873E+22	7,365035E+22	5,189646E+22	5,189650E+22	1,472991E+23	1,037930E+23	2,510920E+23
-1189	7,365209E+22	7,365009E+22	5,189605E+22	5,189666E+22	1,473022E+23	1,037927E+23	2,510949E+23
-1188	7,364858E+22	7,364878E+22	5,189702E+22	5,189594E+22	1,472974E+23	1,037930E+23	2,510903E+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							
-1187	7,365104E+22	7,365072E+22	5,189656E+22	5,189715E+22	1,473018E+23	1,037937E+23	2,510955E+23
-1186	7,365116E+22	7,365004E+22	5,189653E+22	5,189626E+22	1,473012E+23	1,037928E+23	2,510940E+23
-1185	7,364741E+22	7,365049E+22	5,189677E+22	5,189583E+22	1,472979E+23	1,037926E+23	2,510905E+23
-1184	7,365114E+22	7,365152E+22	5,189552E+22	5,189656E+22	1,473027E+23	1,037921E+23	2,510947E+23
-1183	7,364930E+22	7,364902E+22	5,189592E+22	5,189468E+22	1,472983E+23	1,037906E+23	2,510889E+23
-1182	7,364861E+22	7,364975E+22	5,189578E+22	5,189458E+22	1,472984E+23	1,037904E+23	2,510887E+23
-1181	7,365230E+22	7,365058E+22	5,189404E+22	5,189490E+22	1,473029E+23	1,037889E+23	2,510918E+23
-1180	7,364882E+22	7,364912E+22	5,189396E+22	5,189369E+22	1,472979E+23	1,037877E+23	2,510856E+23
-1179	7,365006E+22	7,365105E+22	5,189353E+22	5,189449E+22	1,473011E+23	1,037880E+23	2,510891E+23
-1178	7,365170E+22	7,365059E+22	5,189350E+22	5,189378E+22	1,473023E+23	1,037873E+23	2,510896E+23
-1177	7,364826E+22	7,365002E+22	5,189448E+22	5,189310E+22	1,472983E+23	1,037876E+23	2,510859E+23
-1176	7,365153E+22	7,365142E+22	5,189442E+22	5,189481E+22	1,473030E+23	1,037892E+23	2,510922E+23
-1175	7,365035E+22	7,364941E+22	5,189538E+22	5,189457E+22	1,472998E+23	1,037900E+23	2,510897E+23
-1174	7,364776E+22	7,364992E+22	5,189649E+22	5,189555E+22	1,472977E+23	1,037920E+23	2,510897E+23
-1173	7,365110E+22	7,365106E+22	5,189595E+22	5,189744E+22	1,473022E+23	1,037934E+23	2,510955E+23
-1172	7,364853E+22	7,364840E+22	5,189697E+22	5,189675E+22	1,472969E+23	1,037937E+23	2,510906E+23
-1171	7,364895E+22	7,364956E+22	5,189771E+22	5,189768E+22	1,472985E+23	1,037954E+23	2,510939E+23
-1170	7,365178E+22	7,364958E+22	5,189766E+22	5,189800E+22	1,473014E+23	1,037957E+23	2,510970E+23
-1169	7,364805E+22	7,364877E+22	5,189826E+22	5,189713E+22	1,472968E+23	1,037954E+23	2,510922E+23
-1168	7,364991E+22	7,365103E+22	5,189777E+22	5,189861E+22	1,473009E+23	1,037964E+23	2,510973E+23
-1167	7,364981E+22	7,364945E+22	5,189770E+22	5,189770E+22	1,472993E+23	1,037954E+23	2,510947E+23
-1166	7,364696E+22	7,364921E+22	5,189824E+22	5,189678E+22	1,472962E+23	1,037950E+23	2,510912E+23
-1165	7,365071E+22	7,365057E+22	5,189698E+22	5,189750E+22	1,473013E+23	1,037945E+23	2,510958E+23
-1164	7,364935E+22	7,364797E+22	5,189668E+22	5,189578E+22	1,472973E+23	1,037925E+23	2,510898E+23
-1163	7,364848E+22	7,364948E+22	5,189631E+22	5,189586E+22	1,472980E+23	1,037922E+23	2,510901E+23
-1162	7,365145E+22	7,365056E+22	5,189501E+22	5,189630E+22	1,473020E+23	1,037913E+23	2,510933E+23
-1161	7,364823E+22	7,364916E+22	5,189507E+22	5,189459E+22	1,472974E+23	1,037897E+23	2,510871E+23
-1160	7,364961E+22	7,365106E+22	5,189506E+22	5,189541E+22	1,473007E+23	1,037905E+23	2,510911E+23
-1159	7,365112E+22	7,364969E+22	5,189520E+22	5,189496E+22	1,473008E+23	1,037902E+23	2,510910E+23
-1158	7,364804E+22	7,364893E+22	5,189642E+22	5,189452E+22	1,472970E+23	1,037909E+23	2,510879E+23
-1157	7,365045E+22	7,365103E+22	5,189614E+22	5,189671E+22	1,473015E+23	1,037928E+23	2,510943E+23
-1156	7,364942E+22	7,364865E+22	5,189646E+22	5,189666E+22	1,472981E+23	1,037931E+23	2,510912E+23
-1155	7,364733E+22	7,364918E+22	5,189756E+22	5,189729E+22	1,472965E+23	1,037949E+23	2,510914E+23
-1154	7,365065E+22	7,365006E+22	5,189749E+22	5,189881E+22	1,473007E+23	1,037963E+23	2,510970E+23
-1153	7,364862E+22	7,364778E+22	5,189839E+22	5,189762E+22	1,472964E+23	1,037960E+23	2,510924E+23
-1152	7,364884E+22	7,364961E+22	5,189908E+22	5,189883E+22	1,472985E+23	1,037979E+23	2,510964E+23
-1151	7,365071E+22	7,364939E+22	5,189894E+22	5,189953E+22	1,473001E+23	1,037985E+23	2,510986E+23
-1150	7,364718E+22	7,364844E+22	5,189980E+22	5,189857E+22	1,472956E+23	1,037984E+23	2,510940E+23
-1149	7,364863E+22	7,365071E+22	5,189943E+22	5,189989E+22	1,472993E+23	1,037993E+23	2,510987E+23
-1148	7,364931E+22	7,364832E+22	5,189888E+22	5,189889E+22	1,472976E+23	1,037978E+23	2,510954E+23
-1147	7,364707E+22	7,364804E+22	5,189925E+22	5,189782E+22	1,472951E+23	1,037971E+23	2,510922E+23
-1146	7,365034E+22	7,364969E+22	5,189813E+22	5,189880E+22	1,473000E+23	1,037969E+23	2,510970E+23
-1145	7,364898E+22	7,364785E+22	5,189735E+22	5,189695E+22	1,472968E+23	1,037943E+23	2,510911E+23
-1144	7,364787E+22	7,364979E+22	5,189700E+22	5,189710E+22	1,472977E+23	1,037941E+23	2,510918E+23
-1143	7,365060E+22	7,365008E+22	5,189611E+22	5,189740E+22	1,473007E+23	1,037935E+23	2,510942E+23
-1142	7,364819E+22	7,364827E+22	5,189672E+22	5,189534E+22	1,472965E+23	1,037921E+23	2,510885E+23
-1141	7,364907E+22	7,365052E+22	5,189698E+22	5,189633E+22	1,472996E+23	1,037933E+23	2,510929E+23
-1140	7,365074E+22	7,364893E+22	5,189653E+22	5,189650E+22	1,472997E+23	1,037930E+23	2,510927E+23
-1139	7,364741E+22	7,364843E+22	5,189756E+22	5,189635E+22	1,472958E+23	1,037939E+23	2,510897E+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	7,364923E+22	7,365057E+22	5,189763E+22	5,189872E+22	1,472998E+23	1,037963E+23	2,510961E+23
-1137	7,364882E+22	7,364813E+22	5,189775E+22	5,189811E+22	1,472970E+23	1,037959E+23	2,510928E+23
-1136	7,364707E+22	7,364877E+22	5,189897E+22	5,189859E+22	1,472958E+23	1,037976E+23	2,510934E+23
-1135	7,365034E+22	7,364913E+22	5,189910E+22	5,190016E+22	1,472995E+23	1,037993E+23	2,510987E+23
-1134	7,364858E+22	7,364705E+22	5,190009E+22	5,189895E+22	1,472956E+23	1,037990E+23	2,510947E+23
-1133	7,364775E+22	7,364972E+22	5,190070E+22	5,190035E+22	1,472975E+23	1,038010E+23	2,510985E+23
-1132	7,364976E+22	7,364890E+22	5,190000E+22	5,190117E+22	1,472987E+23	1,038012E+23	2,510998E+23
-1131	7,364659E+22	7,364762E+22	5,190098E+22	5,189984E+22	1,472942E+23	1,038008E+23	2,510950E+23
-1130	7,364796E+22	7,364964E+22	5,190097E+22	5,190099E+22	1,472976E+23	1,038020E+23	2,510996E+23
-1129	7,364923E+22	7,364748E+22	5,189999E+22	5,189971E+22	1,472967E+23	1,037997E+23	2,510964E+23
-1128	7,364696E+22	7,364794E+22	5,190006E+22	5,189898E+22	1,472949E+23	1,037990E+23	2,510939E+23
-1127	7,364958E+22	7,364937E+22	5,189893E+22	5,190018E+22	1,472989E+23	1,037991E+23	2,510981E+23
-1126	7,364858E+22	7,364761E+22	5,189846E+22	5,189805E+22	1,472962E+23	1,037965E+23	2,510927E+23
-1125	7,364709E+22	7,364980E+22	5,189850E+22	5,189795E+22	1,472969E+23	1,037965E+23	2,510933E+23
-1124	7,365027E+22	7,364929E+22	5,189741E+22	5,189837E+22	1,472996E+23	1,037958E+23	2,510953E+23
-1123	7,364817E+22	7,364741E+22	5,189819E+22	5,189651E+22	1,472956E+23	1,037947E+23	2,510903E+23
-1122	7,364815E+22	7,364978E+22	5,189860E+22	5,189802E+22	1,472979E+23	1,037966E+23	2,510945E+23
-1121	7,364969E+22	7,364860E+22	5,189762E+22	5,189830E+22	1,472983E+23	1,037959E+23	2,510942E+23
-1120	7,364658E+22	7,364825E+22	5,189851E+22	5,189820E+22	1,472948E+23	1,037967E+23	2,510915E+23
-1119	7,364845E+22	7,364941E+22	5,189895E+22	5,190028E+22	1,472979E+23	1,037992E+23	2,510971E+23
-1118	7,364903E+22	7,364703E+22	5,189939E+22	5,189917E+22	1,472961E+23	1,037986E+23	2,510946E+23
-1117	7,364691E+22	7,364835E+22	5,190078E+22	5,189958E+22	1,472953E+23	1,038004E+23	2,510956E+23
-1116	7,365003E+22	7,364866E+22	5,190041E+22	5,190161E+22	1,472987E+23	1,038020E+23	2,511007E+23
-1115	7,364798E+22	7,364693E+22	5,190142E+22	5,190052E+22	1,472949E+23	1,038019E+23	2,510968E+23
-1114	7,364635E+22	7,364946E+22	5,190241E+22	5,190199E+22	1,472958E+23	1,038044E+23	2,511002E+23
-1113	7,364888E+22	7,364843E+22	5,190144E+22	5,190239E+22	1,472973E+23	1,038038E+23	2,511011E+23
-1112	7,364626E+22	7,364701E+22	5,190228E+22	5,190104E+22	1,472933E+23	1,038033E+23	2,510966E+23
-1111	7,364756E+22	7,364835E+22	5,190233E+22	5,190231E+22	1,472959E+23	1,038046E+23	2,511006E+23
-1110	7,364920E+22	7,364673E+22	5,190112E+22	5,190101E+22	1,472959E+23	1,038021E+23	2,510980E+23
-1109	7,364611E+22	7,364809E+22	5,190105E+22	5,190027E+22	1,472942E+23	1,038013E+23	2,510955E+23
-1108	7,364904E+22	7,364900E+22	5,189958E+22	5,190146E+22	1,472980E+23	1,038010E+23	2,510991E+23
-1107	7,364842E+22	7,364697E+22	5,189947E+22	5,189883E+22	1,472954E+23	1,037983E+23	2,510937E+23
-1106	7,364652E+22	7,364910E+22	5,190012E+22	5,189876E+22	1,472956E+23	1,037989E+23	2,510945E+23
-1105	7,364992E+22	7,364877E+22	5,189870E+22	5,189923E+22	1,472987E+23	1,037979E+23	2,510966E+23
-1104	7,364750E+22	7,364732E+22	5,189930E+22	5,189805E+22	1,472948E+23	1,037973E+23	2,510922E+23
-1103	7,364690E+22	7,364913E+22	5,189988E+22	5,189994E+22	1,472960E+23	1,037998E+23	2,510959E+23
-1102	7,364906E+22	7,364787E+22	5,189905E+22	5,189992E+22	1,472969E+23	1,037990E+23	2,510959E+23
-1101	7,364594E+22	7,364781E+22	5,190017E+22	5,189945E+22	1,472937E+23	1,037996E+23	2,510934E+23
-1100	7,364855E+22	7,364830E+22	5,190030E+22	5,190155E+22	1,472968E+23	1,038019E+23	2,510987E+23
-1099	7,364930E+22	7,364620E+22	5,190093E+22	5,190039E+22	1,472955E+23	1,038013E+23	2,510968E+23
-1098	7,364613E+22	7,364811E+22	5,190254E+22	5,190123E+22	1,472942E+23	1,038038E+23	2,510980E+23
-1097	7,364890E+22	7,364874E+22	5,190173E+22	5,190323E+22	1,472976E+23	1,038050E+23	2,511026E+23
-1096	7,364696E+22	7,364694E+22	5,190273E+22	5,190223E+22	1,472939E+23	1,038050E+23	2,510989E+23
-1095	7,364532E+22	7,364826E+22	5,190404E+22	5,190347E+22	1,472936E+23	1,038075E+23	2,511011E+23
-1094	7,364873E+22	7,364722E+22	5,190303E+22	5,190350E+22	1,472959E+23	1,038065E+23	2,511025E+23
-1093	7,364601E+22	7,364646E+22	5,190367E+22	5,190210E+22	1,472925E+23	1,038058E+23	2,510982E+23
-1092	7,364733E+22	7,364765E+22	5,190301E+22	5,190373E+22	1,472950E+23	1,038067E+23	2,511017E+23
-1091	7,364891E+22	7,364656E+22	5,190187E+22	5,190224E+22	1,472955E+23	1,038041E+23	2,510996E+23
-1090	7,364524E+22	7,364796E+22	5,190224E+22	5,190133E+22	1,472932E+23	1,038036E+23	2,510968E+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							
-1089	7,364838E+22	7,364875E+22	5,190072E+22	5,190209E+22	1,472971E+23	1,038028E+23	2,510999E+23
-1088	7,364818E+22	7,364672E+22	5,190071E+22	5,189971E+22	1,472949E+23	1,038004E+23	2,510953E+23
-1087	7,364579E+22	7,364796E+22	5,190169E+22	5,190009E+22	1,472938E+23	1,038018E+23	2,510955E+23
-1086	7,364923E+22	7,364813E+22	5,190008E+22	5,190081E+22	1,472974E+23	1,038009E+23	2,510982E+23
-1085	7,364638E+22	7,364713E+22	5,190056E+22	5,189972E+22	1,472935E+23	1,038003E+23	2,510938E+23
-1084	7,364632E+22	7,364806E+22	5,190084E+22	5,190163E+22	1,472944E+23	1,038025E+23	2,510968E+23
-1083	7,364915E+22	7,364680E+22	5,190036E+22	5,190106E+22	1,472959E+23	1,038014E+23	2,510974E+23
-1082	7,364577E+22	7,364705E+22	5,190190E+22	5,190053E+22	1,472928E+23	1,038024E+23	2,510952E+23
-1081	7,364835E+22	7,364807E+22	5,190172E+22	5,190265E+22	1,472964E+23	1,038044E+23	2,511008E+23
-1080	7,364870E+22	7,364663E+22	5,190224E+22	5,190204E+22	1,472953E+23	1,038043E+23	2,510996E+23
-1079	7,364471E+22	7,364779E+22	5,190429E+22	5,190318E+22	1,472925E+23	1,038075E+23	2,511000E+23
-1078	7,364787E+22	7,364828E+22	5,190356E+22	5,190486E+22	1,472961E+23	1,038084E+23	2,511046E+23
-1077	7,364601E+22	7,364638E+22	5,190465E+22	5,190360E+22	1,472924E+23	1,038082E+23	2,511006E+23
-1076	7,364522E+22	7,364675E+22	5,190540E+22	5,190496E+22	1,472920E+23	1,038104E+23	2,511023E+23
-1075	7,364893E+22	7,364598E+22	5,190421E+22	5,190477E+22	1,472949E+23	1,038090E+23	2,511039E+23
-1074	7,364538E+22	7,364610E+22	5,190471E+22	5,190357E+22	1,472915E+23	1,038083E+23	2,510998E+23
-1073	7,364668E+22	7,364770E+22	5,190353E+22	5,190484E+22	1,472944E+23	1,038084E+23	2,511027E+23
-1072	7,364837E+22	7,364670E+22	5,190257E+22	5,190318E+22	1,472951E+23	1,038058E+23	2,511008E+23
-1071	7,364457E+22	7,364712E+22	5,190368E+22	5,190214E+22	1,472917E+23	1,038058E+23	2,510975E+23
-1070	7,364811E+22	7,364799E+22	5,190228E+22	5,190271E+22	1,472961E+23	1,038050E+23	2,511011E+23
-1069	7,364750E+22	7,364644E+22	5,190230E+22	5,190075E+22	1,472939E+23	1,038030E+23	2,510970E+23
-1068	7,364511E+22	7,364714E+22	5,190266E+22	5,190182E+22	1,472922E+23	1,038045E+23	2,510967E+23
-1067	7,364860E+22	7,364745E+22	5,190117E+22	5,190243E+22	1,472960E+23	1,038036E+23	2,510996E+23
-1066	7,364556E+22	7,364662E+22	5,190195E+22	5,190125E+22	1,472922E+23	1,038032E+23	2,510954E+23
-1065	7,364607E+22	7,364747E+22	5,190201E+22	5,190268E+22	1,472935E+23	1,038047E+23	2,510982E+23
-1064	7,364927E+22	7,364653E+22	5,190169E+22	5,190228E+22	1,472958E+23	1,038040E+23	2,510998E+23
-1063	7,364526E+22	7,364631E+22	5,190371E+22	5,190213E+22	1,472916E+23	1,038058E+23	2,510974E+23
-1062	7,364742E+22	7,364800E+22	5,190342E+22	5,190435E+22	1,472954E+23	1,038078E+23	2,511032E+23
-1061	7,364738E+22	7,364678E+22	5,190401E+22	5,190385E+22	1,472942E+23	1,038079E+23	2,511020E+23
-1060	7,364384E+22	7,364654E+22	5,190572E+22	5,190500E+22	1,472904E+23	1,038107E+23	2,511011E+23
-1059	7,364763E+22	7,364687E+22	5,190517E+22	5,190612E+22	1,472945E+23	1,038113E+23	2,511058E+23
-1058	7,364578E+22	7,364525E+22	5,190619E+22	5,190483E+22	1,472910E+23	1,038110E+23	2,511020E+23
-1057	7,364503E+22	7,364610E+22	5,190627E+22	5,190607E+22	1,472911E+23	1,038123E+23	2,511035E+23
-1056	7,364860E+22	7,364627E+22	5,190485E+22	5,190613E+22	1,472949E+23	1,038110E+23	2,511059E+23
-1055	7,364448E+22	7,364581E+22	5,190586E+22	5,190488E+22	1,472903E+23	1,038107E+23	2,511010E+23
-1054	7,364598E+22	7,364760E+22	5,190488E+22	5,190563E+22	1,472936E+23	1,038105E+23	2,511041E+23
-1053	7,364772E+22	7,364659E+22	5,190420E+22	5,190382E+22	1,472943E+23	1,038080E+23	2,511023E+23
-1052	7,364432E+22	7,364585E+22	5,190502E+22	5,190327E+22	1,472902E+23	1,038083E+23	2,510985E+23
-1051	7,364775E+22	7,364699E+22	5,190363E+22	5,190399E+22	1,472947E+23	1,038076E+23	2,511024E+23
-1050	7,364641E+22	7,364603E+22	5,190349E+22	5,190254E+22	1,472924E+23	1,038060E+23	2,510985E+23
-1049	7,364427E+22	7,364670E+22	5,190332E+22	5,190340E+22	1,472910E+23	1,038067E+23	2,510977E+23
-1048	7,364829E+22	7,364710E+22	5,190198E+22	5,190378E+22	1,472954E+23	1,038058E+23	2,511012E+23
-1047	7,364531E+22	7,364559E+22	5,190345E+22	5,190240E+22	1,472909E+23	1,038059E+23	2,510967E+23
-1046	7,364611E+22	7,364700E+22	5,190360E+22	5,190356E+22	1,472931E+23	1,038072E+23	2,511003E+23
-1045	7,364868E+22	7,364672E+22	5,190346E+22	5,190352E+22	1,472954E+23	1,038070E+23	2,511024E+23
-1044	7,364448E+22	7,364583E+22	5,190519E+22	5,190408E+22	1,472903E+23	1,038093E+23	2,510996E+23
-1043	7,364649E+22	7,364734E+22	5,190514E+22	5,190602E+22	1,472938E+23	1,038112E+23	2,511050E+23
-1042	7,364620E+22	7,364609E+22	5,190591E+22	5,190555E+22	1,472923E+23	1,038115E+23	2,511038E+23
-1041	7,364345E+22	7,364548E+22	5,190707E+22	5,190631E+22	1,472889E+23	1,038134E+23	2,511023E+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							
-1040	7,364766E+22	7,364605E+22	5,190634E+22	5,190748E+22	1,472937E+23	1,038138E+23	2,511075E+23
-1039	7,364537E+22	7,364435E+22	5,190754E+22	5,190643E+22	1,472897E+23	1,038140E+23	2,511037E+23
-1038	7,364442E+22	7,364612E+22	5,190725E+22	5,190742E+22	1,472905E+23	1,038147E+23	2,511052E+23
-1037	7,364766E+22	7,364661E+22	5,190606E+22	5,190727E+22	1,472943E+23	1,038133E+23	2,511076E+23
-1036	7,364400E+22	7,364495E+22	5,190698E+22	5,190598E+22	1,472890E+23	1,038130E+23	2,511019E+23
-1035	7,364576E+22	7,364658E+22	5,190638E+22	5,190622E+22	1,472923E+23	1,038126E+23	2,511049E+23
-1034	7,364718E+22	7,364595E+22	5,190574E+22	5,190483E+22	1,472931E+23	1,038106E+23	2,511037E+23
-1033	7,364379E+22	7,364529E+22	5,190585E+22	5,190453E+22	1,472891E+23	1,038104E+23	2,510995E+23
-1032	7,364706E+22	7,364700E+22	5,190430E+22	5,190563E+22	1,472941E+23	1,038099E+23	2,511040E+23
-1031	7,364550E+22	7,364536E+22	5,190467E+22	5,190422E+22	1,472909E+23	1,038089E+23	2,510997E+23
-1030	7,364379E+22	7,364632E+22	5,190455E+22	5,190448E+22	1,472901E+23	1,038090E+23	2,510991E+23
-1029	7,364814E+22	7,364685E+22	5,190361E+22	5,190467E+22	1,472950E+23	1,038083E+23	2,511033E+23
-1028	7,364545E+22	7,364438E+22	5,190488E+22	5,190369E+22	1,472898E+23	1,038086E+23	2,510984E+23
-1027	7,364576E+22	7,364635E+22	5,190525E+22	5,190489E+22	1,472921E+23	1,038101E+23	2,511022E+23
-1026	7,364749E+22	7,364664E+22	5,190505E+22	5,190537E+22	1,472941E+23	1,038104E+23	2,511046E+23
-1025	7,364339E+22	7,364522E+22	5,190642E+22	5,190581E+22	1,472886E+23	1,038122E+23	2,511008E+23
-1024	7,364582E+22	7,364672E+22	5,190648E+22	5,190757E+22	1,472925E+23	1,038141E+23	2,511066E+23
-1023	7,364573E+22	7,364465E+22	5,190770E+22	5,190703E+22	1,472904E+23	1,038147E+23	2,511051E+23
-1022	7,364331E+22	7,364476E+22	5,190850E+22	5,190750E+22	1,472881E+23	1,038160E+23	2,511041E+23
-1021	7,364722E+22	7,364610E+22	5,190772E+22	5,190882E+22	1,472933E+23	1,038165E+23	2,511099E+23
-1020	7,364484E+22	7,364389E+22	5,190853E+22	5,190810E+22	1,472887E+23	1,038166E+23	2,511054E+23
-1019	7,364384E+22	7,364580E+22	5,190860E+22	5,190851E+22	1,472896E+23	1,038171E+23	2,511067E+23
-1018	7,364679E+22	7,364640E+22	5,190766E+22	5,190831E+22	1,472932E+23	1,038160E+23	2,511092E+23
-1017	7,364367E+22	7,364419E+22	5,190821E+22	5,190687E+22	1,472879E+23	1,038151E+23	2,511029E+23
-1016	7,364549E+22	7,364600E+22	5,190749E+22	5,190735E+22	1,472915E+23	1,038148E+23	2,511063E+23
-1015	7,364630E+22	7,364510E+22	5,190704E+22	5,190652E+22	1,472914E+23	1,038136E+23	2,511050E+23
-1014	7,364294E+22	7,364510E+22	5,190667E+22	5,190604E+22	1,472880E+23	1,038127E+23	2,511007E+23
-1013	7,364630E+22	7,364679E+22	5,190537E+22	5,190686E+22	1,472931E+23	1,038122E+23	2,511053E+23
-1012	7,364545E+22	7,364416E+22	5,190568E+22	5,190540E+22	1,472896E+23	1,038111E+23	2,511007E+23
-1011	7,364410E+22	7,364523E+22	5,190594E+22	5,190504E+22	1,472893E+23	1,038110E+23	2,511003E+23
-1010	7,364777E+22	7,364648E+22	5,190520E+22	5,190569E+22	1,472942E+23	1,038109E+23	2,511051E+23
-1009	7,364491E+22	7,364422E+22	5,190601E+22	5,190511E+22	1,472891E+23	1,038111E+23	2,511002E+23
-1008	7,364476E+22	7,364647E+22	5,190647E+22	5,190661E+22	1,472912E+23	1,038131E+23	2,511043E+23
-1007	7,364614E+22	7,364599E+22	5,190691E+22	5,190733E+22	1,472921E+23	1,038142E+23	2,511064E+23
-1006	7,364258E+22	7,364459E+22	5,190811E+22	5,190726E+22	1,472872E+23	1,038154E+23	2,511025E+23
-1005	7,364542E+22	7,364598E+22	5,190836E+22	5,190892E+22	1,472914E+23	1,038173E+23	2,511087E+23
-1004	7,364573E+22	7,364323E+22	5,190910E+22	5,190880E+22	1,472890E+23	1,038179E+23	2,511069E+23
-1003	7,364307E+22	7,364406E+22	5,190980E+22	5,190901E+22	1,472871E+23	1,038188E+23	2,511059E+23
-1002	7,364627E+22	7,364617E+22	5,190897E+22	5,191049E+22	1,472924E+23	1,038195E+23	2,511119E+23
-1001	7,364423E+22	7,364355E+22	5,190943E+22	5,190934E+22	1,472878E+23	1,038188E+23	2,511066E+23
-1000	7,364347E+22	7,364545E+22	5,190976E+22	5,190937E+22	1,472889E+23	1,038191E+23	2,511081E+23
-999	7,364630E+22	7,364539E+22	5,190933E+22	5,190931E+22	1,472917E+23	1,038186E+23	2,511103E+23
-998	7,364315E+22	7,364373E+22	5,190950E+22	5,190784E+22	1,472869E+23	1,038173E+23	2,511042E+23
-997	7,364470E+22	7,364597E+22	5,190874E+22	5,190868E+22	1,472907E+23	1,038174E+23	2,511081E+23
-996	7,364562E+22	7,364418E+22	5,190786E+22	5,190821E+22	1,472898E+23	1,038161E+23	2,511059E+23
-995	7,364251E+22	7,364432E+22	5,190775E+22	5,190710E+22	1,472868E+23	1,038149E+23	2,511017E+23
-994	7,364589E+22	7,364632E+22	5,190666E+22	5,190782E+22	1,472922E+23	1,038145E+23	2,511067E+23
-993	7,364555E+22	7,364335E+22	5,190667E+22	5,190624E+22	1,472889E+23	1,038129E+23	2,511018E+23
-992	7,364401E+22	7,364499E+22	5,190712E+22	5,190615E+22	1,472890E+23	1,038133E+23	2,511023E+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							
-991	7,364672E+22	7,364613E+22	5,190680E+22	5,190746E+22	1,472928E+23	1,038143E+23	2,511071E+23
-990	7,364360E+22	7,364431E+22	5,190740E+22	5,190685E+22	1,472879E+23	1,038143E+23	2,511022E+23
-989	7,364360E+22	7,364618E+22	5,190823E+22	5,190825E+22	1,472898E+23	1,038165E+23	2,511063E+23
-988	7,364564E+22	7,364440E+22	5,190851E+22	5,190904E+22	1,472900E+23	1,038176E+23	2,511076E+23
-987	7,364268E+22	7,364319E+22	5,190979E+22	5,190846E+22	1,472859E+23	1,038183E+23	2,511041E+23
-986	7,364512E+22	7,364536E+22	5,190991E+22	5,191042E+22	1,472905E+23	1,038203E+23	2,511108E+23
-985	7,364543E+22	7,364296E+22	5,191001E+22	5,191040E+22	1,472884E+23	1,038204E+23	2,511088E+23
-984	7,364255E+22	7,364428E+22	5,191081E+22	5,191046E+22	1,472868E+23	1,038213E+23	2,511081E+23
-983	7,364525E+22	7,364583E+22	5,191070E+22	5,191191E+22	1,472911E+23	1,038226E+23	2,511137E+23
-982	7,364358E+22	7,364338E+22	5,191103E+22	5,191025E+22	1,472870E+23	1,038213E+23	2,511082E+23
-981	7,364297E+22	7,364489E+22	5,191154E+22	5,191028E+22	1,472879E+23	1,038218E+23	2,511097E+23
-980	7,364582E+22	7,364409E+22	5,191063E+22	5,191085E+22	1,472899E+23	1,038215E+23	2,511114E+23
-979	7,364261E+22	7,364287E+22	5,191050E+22	5,190924E+22	1,472855E+23	1,038197E+23	2,511052E+23
-978	7,364363E+22	7,364556E+22	5,190966E+22	5,191021E+22	1,472892E+23	1,038199E+23	2,511091E+23
-977	7,364527E+22	7,364346E+22	5,190840E+22	5,190935E+22	1,472887E+23	1,038177E+23	2,511065E+23
-976	7,364262E+22	7,364379E+22	5,190854E+22	5,190777E+22	1,472864E+23	1,038163E+23	2,511027E+23
-975	7,364566E+22	7,364559E+22	5,190815E+22	5,190872E+22	1,472912E+23	1,038169E+23	2,511081E+23
-974	7,364508E+22	7,364348E+22	5,190793E+22	5,190719E+22	1,472886E+23	1,038151E+23	2,511037E+23
-973	7,364300E+22	7,364531E+22	5,190871E+22	5,190758E+22	1,472883E+23	1,038163E+23	2,511046E+23
-972	7,364553E+22	7,364542E+22	5,190831E+22	5,190943E+22	1,472909E+23	1,038177E+23	2,511087E+23
-971	7,364280E+22	7,364334E+22	5,190920E+22	5,190840E+22	1,472861E+23	1,038176E+23	2,511037E+23
-970	7,364292E+22	7,364522E+22	5,191012E+22	5,190982E+22	1,472881E+23	1,038199E+23	2,511081E+23
-969	7,364572E+22	7,364307E+22	5,190981E+22	5,191055E+22	1,472888E+23	1,038204E+23	2,511091E+23
-968	7,364275E+22	7,364263E+22	5,191092E+22	5,191001E+22	1,472854E+23	1,038209E+23	2,511063E+23
-967	7,364437E+22	7,364505E+22	5,191133E+22	5,191232E+22	1,472894E+23	1,038236E+23	2,511131E+23
-966	7,364445E+22	7,364326E+22	5,191122E+22	5,191183E+22	1,472877E+23	1,038230E+23	2,511108E+23
-965	7,364180E+22	7,364428E+22	5,191254E+22	5,191159E+22	1,472861E+23	1,038241E+23	2,511102E+23
-964	7,364476E+22	7,364453E+22	5,191234E+22	5,191305E+22	1,472893E+23	1,038254E+23	2,511147E+23
-963	7,364330E+22	7,364223E+22	5,191270E+22	5,191114E+22	1,472855E+23	1,038238E+23	2,511094E+23
-962	7,364218E+22	7,364436E+22	5,191292E+22	5,191166E+22	1,472865E+23	1,038246E+23	2,511111E+23
-961	7,364509E+22	7,364350E+22	5,191120E+22	5,191243E+22	1,472886E+23	1,038236E+23	2,511122E+23
-960	7,364208E+22	7,364269E+22	5,191107E+22	5,191058E+22	1,472848E+23	1,038216E+23	2,511064E+23
-959	7,364299E+22	7,364494E+22	5,191083E+22	5,191143E+22	1,472879E+23	1,038223E+23	2,511102E+23
-958	7,364499E+22	7,364329E+22	5,190952E+22	5,190998E+22	1,472883E+23	1,038195E+23	2,511078E+23
-957	7,364257E+22	7,364357E+22	5,191009E+22	5,190852E+22	1,472861E+23	1,038186E+23	2,511047E+23
-956	7,364509E+22	7,364476E+22	5,190956E+22	5,191014E+22	1,472899E+23	1,038197E+23	2,511096E+23
-955	7,364424E+22	7,364310E+22	5,190939E+22	5,190872E+22	1,472873E+23	1,038181E+23	2,511054E+23
-954	7,364167E+22	7,364494E+22	5,191027E+22	5,190937E+22	1,472866E+23	1,038196E+23	2,511063E+23
-953	7,364486E+22	7,364432E+22	5,190952E+22	5,191103E+22	1,472892E+23	1,038206E+23	2,511097E+23
-952	7,364284E+22	7,364231E+22	5,191049E+22	5,190966E+22	1,472852E+23	1,038201E+23	2,511053E+23
-951	7,364270E+22	7,364409E+22	5,191182E+22	5,191136E+22	1,472868E+23	1,038232E+23	2,511100E+23
-950	7,364535E+22	7,364311E+22	5,191108E+22	5,191196E+22	1,472885E+23	1,038230E+23	2,511115E+23
-949	7,364213E+22	7,364293E+22	5,191240E+22	5,191153E+22	1,472851E+23	1,038239E+23	2,511090E+23
-948	7,364338E+22	7,364455E+22	5,191287E+22	5,191403E+22	1,472879E+23	1,038269E+23	2,511148E+23
-947	7,364382E+22	7,364271E+22	5,191302E+22	5,191297E+22	1,472865E+23	1,038260E+23	2,511125E+23
-946	7,364098E+22	7,364355E+22	5,191447E+22	5,191280E+22	1,472845E+23	1,038273E+23	2,511118E+23
-945	7,364437E+22	7,364336E+22	5,191361E+22	5,191440E+22	1,472877E+23	1,038280E+23	2,511157E+23
-944	7,364293E+22	7,364156E+22	5,191363E+22	5,191264E+22	1,472845E+23	1,038263E+23	2,511108E+23
-943	7,364114E+22	7,364374E+22	5,191394E+22	5,191351E+22	1,472849E+23	1,038274E+23	2,511123E+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	7,364425E+22	7,364343E+22	5,191187E+22	5,191363E+22	1,472877E+23	1,038255E+23	2,511132E+23
-941	7,364187E+22	7,364239E+22	5,191217E+22	5,191133E+22	1,472843E+23	1,038235E+23	2,511078E+23
-940	7,364297E+22	7,364382E+22	5,191204E+22	5,191219E+22	1,472868E+23	1,038242E+23	2,511110E+23
-939	7,364504E+22	7,364266E+22	5,191094E+22	5,191056E+22	1,472877E+23	1,038215E+23	2,511092E+23
-938	7,364181E+22	7,364351E+22	5,191162E+22	5,190976E+22	1,472853E+23	1,038214E+23	2,511067E+23
-937	7,364412E+22	7,364440E+22	5,191061E+22	5,191173E+22	1,472885E+23	1,038223E+23	2,511109E+23
-936	7,364340E+22	7,364277E+22	5,191063E+22	5,191033E+22	1,472862E+23	1,038210E+23	2,511071E+23
-935	7,364080E+22	7,364398E+22	5,191202E+22	5,191111E+22	1,472848E+23	1,038231E+23	2,511079E+23
-934	7,364442E+22	7,364362E+22	5,191099E+22	5,191227E+22	1,472880E+23	1,038233E+23	2,511113E+23
-933	7,364288E+22	7,364174E+22	5,191212E+22	5,191105E+22	1,472846E+23	1,038232E+23	2,511078E+23
-932	7,364228E+22	7,364317E+22	5,191312E+22	5,191319E+22	1,472855E+23	1,038263E+23	2,511118E+23
-931	7,364458E+22	7,364288E+22	5,191247E+22	5,191357E+22	1,472875E+23	1,038260E+23	2,511135E+23
-930	7,364106E+22	7,364284E+22	5,191408E+22	5,191313E+22	1,472839E+23	1,038272E+23	2,511111E+23
-929	7,364275E+22	7,364362E+22	5,191429E+22	5,191528E+22	1,472864E+23	1,038296E+23	2,511159E+23
-928	7,364366E+22	7,364187E+22	5,191453E+22	5,191402E+22	1,472855E+23	1,038285E+23	2,511141E+23
-927	7,364040E+22	7,364254E+22	5,191613E+22	5,191429E+22	1,472829E+23	1,038304E+23	2,511134E+23
-926	7,364348E+22	7,364323E+22	5,191464E+22	5,191576E+22	1,472867E+23	1,038304E+23	2,511171E+23
-925	7,364227E+22	7,364157E+22	5,191469E+22	5,191411E+22	1,472838E+23	1,038288E+23	2,511126E+23
-924	7,364044E+22	7,364289E+22	5,191495E+22	5,191494E+22	1,472833E+23	1,038299E+23	2,511132E+23
-923	7,364408E+22	7,364282E+22	5,191317E+22	5,191436E+22	1,472869E+23	1,038275E+23	2,511144E+23
-922	7,364172E+22	7,364189E+22	5,191368E+22	5,191204E+22	1,472836E+23	1,038257E+23	2,511093E+23
-921	7,364286E+22	7,364305E+22	5,191311E+22	5,191313E+22	1,472859E+23	1,038262E+23	2,511121E+23
-920	7,364462E+22	7,364252E+22	5,191194E+22	5,191185E+22	1,472871E+23	1,038238E+23	2,511109E+23
-919	7,364048E+22	7,364314E+22	5,191296E+22	5,191168E+22	1,472836E+23	1,038246E+23	2,511083E+23
-918	7,364288E+22	7,364423E+22	5,191178E+22	5,191319E+22	1,472871E+23	1,038250E+23	2,511121E+23
-917	7,364303E+22	7,364201E+22	5,191212E+22	5,191160E+22	1,472850E+23	1,038237E+23	2,511088E+23
-916	7,364058E+22	7,364241E+22	5,191346E+22	5,191251E+22	1,472830E+23	1,038260E+23	2,511090E+23
-915	7,364447E+22	7,364278E+22	5,191243E+22	5,191346E+22	1,472872E+23	1,038259E+23	2,511131E+23
-914	7,364227E+22	7,364162E+22	5,191358E+22	5,191262E+22	1,472839E+23	1,038262E+23	2,511101E+23
-913	7,364155E+22	7,364293E+22	5,191423E+22	5,191486E+22	1,472845E+23	1,038291E+23	2,511136E+23
-912	7,364398E+22	7,364272E+22	5,191393E+22	5,191499E+22	1,472867E+23	1,038289E+23	2,511156E+23
-911	7,364017E+22	7,364211E+22	5,191612E+22	5,191470E+22	1,472823E+23	1,038308E+23	2,511131E+23
-910	7,364203E+22	7,364307E+22	5,191600E+22	5,191639E+22	1,472851E+23	1,038324E+23	2,511175E+23
-909	7,364335E+22	7,364122E+22	5,191620E+22	5,191549E+22	1,472846E+23	1,038317E+23	2,511162E+23
-908	7,363961E+22	7,364148E+22	5,191731E+22	5,191621E+22	1,472811E+23	1,038335E+23	2,511146E+23
-907	7,364276E+22	7,364270E+22	5,191567E+22	5,191724E+22	1,472855E+23	1,038329E+23	2,511184E+23
-906	7,364166E+22	7,364118E+22	5,191587E+22	5,191532E+22	1,472828E+23	1,038312E+23	2,511140E+23
-905	7,364047E+22	7,364194E+22	5,191579E+22	5,191571E+22	1,472824E+23	1,038315E+23	2,511139E+23
-904	7,364433E+22	7,364230E+22	5,191424E+22	5,191490E+22	1,472866E+23	1,038291E+23	2,511158E+23
-903	7,364129E+22	7,364153E+22	5,191509E+22	5,191323E+22	1,472828E+23	1,038283E+23	2,511111E+23
-902	7,364172E+22	7,364333E+22	5,191414E+22	5,191424E+22	1,472851E+23	1,038284E+23	2,511134E+23
-901	7,364362E+22	7,364266E+22	5,191323E+22	5,191339E+22	1,472863E+23	1,038266E+23	2,511129E+23
-900	7,363947E+22	7,364206E+22	5,191430E+22	5,191337E+22	1,472815E+23	1,038277E+23	2,511092E+23
-899	7,364240E+22	7,364314E+22	5,191333E+22	5,191434E+22	1,472855E+23	1,038277E+23	2,511132E+23
-898	7,364287E+22	7,364110E+22	5,191376E+22	5,191288E+22	1,472840E+23	1,038266E+23	2,511106E+23
-897	7,364063E+22	7,364132E+22	5,191449E+22	5,191396E+22	1,472820E+23	1,038285E+23	2,511104E+23
-896	7,364419E+22	7,364259E+22	5,191350E+22	5,191502E+22	1,472868E+23	1,038285E+23	2,511153E+23
-895	7,364128E+22	7,364148E+22	5,191506E+22	5,191452E+22	1,472828E+23	1,038296E+23	2,511123E+23
-894	7,364047E+22	7,364290E+22	5,191574E+22	5,191605E+22	1,472834E+23	1,038318E+23	2,511152E+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							
-893	7,364361E+22	7,364225E+22	5,191583E+22	5,191619E+22	1,472859E+23	1,038320E+23	2,511179E+23
-892	7,363968E+22	7,364069E+22	5,191797E+22	5,191621E+22	1,472804E+23	1,038342E+23	2,511145E+23
-891	7,364152E+22	7,364226E+22	5,191765E+22	5,191781E+22	1,472838E+23	1,038355E+23	2,511192E+23
-890	7,364249E+22	7,364091E+22	5,191760E+22	5,191723E+22	1,472834E+23	1,038348E+23	2,511182E+23
-889	7,363898E+22	7,364082E+22	5,191808E+22	5,191786E+22	1,472798E+23	1,038359E+23	2,511158E+23
-888	7,364257E+22	7,364228E+22	5,191665E+22	5,191835E+22	1,472849E+23	1,038350E+23	2,511199E+23
-887	7,364128E+22	7,364060E+22	5,191726E+22	5,191640E+22	1,472819E+23	1,038337E+23	2,511155E+23
-886	7,364016E+22	7,364176E+22	5,191698E+22	5,191626E+22	1,472819E+23	1,038332E+23	2,511152E+23
-885	7,364411E+22	7,364215E+22	5,191549E+22	5,191592E+22	1,472863E+23	1,038314E+23	2,511177E+23
-884	7,364013E+22	7,364088E+22	5,191622E+22	5,191492E+22	1,472810E+23	1,038311E+23	2,511121E+23
-883	7,364055E+22	7,364291E+22	5,191532E+22	5,191565E+22	1,472835E+23	1,038310E+23	2,511144E+23
-882	7,364272E+22	7,364189E+22	5,191468E+22	5,191471E+22	1,472846E+23	1,038294E+23	2,511140E+23
-881	7,363943E+22	7,364059E+22	5,191530E+22	5,191450E+22	1,472800E+23	1,038298E+23	2,511098E+23
-880	7,364280E+22	7,364209E+22	5,191447E+22	5,191529E+22	1,472849E+23	1,038298E+23	2,511147E+23
-879	7,364256E+22	7,364064E+22	5,191511E+22	5,191442E+22	1,472832E+23	1,038295E+23	2,511127E+23
-878	7,363982E+22	7,364171E+22	5,191558E+22	5,191525E+22	1,472815E+23	1,038308E+23	2,511123E+23
-877	7,364347E+22	7,364288E+22	5,191505E+22	5,191657E+22	1,472864E+23	1,038316E+23	2,511180E+23
-876	7,364026E+22	7,364078E+22	5,191697E+22	5,191624E+22	1,472810E+23	1,038332E+23	2,511142E+23
-875	7,363977E+22	7,364212E+22	5,191784E+22	5,191730E+22	1,472819E+23	1,038351E+23	2,511170E+23
-874	7,364304E+22	7,364137E+22	5,191797E+22	5,191775E+22	1,472844E+23	1,038357E+23	2,511201E+23
-873	7,363930E+22	7,363947E+22	5,191920E+22	5,191810E+22	1,472788E+23	1,038373E+23	2,511161E+23
-872	7,364095E+22	7,364168E+22	5,191867E+22	5,191963E+22	1,472826E+23	1,038383E+23	2,511209E+23
-871	7,364162E+22	7,364053E+22	5,191873E+22	5,191914E+22	1,472822E+23	1,038379E+23	2,511200E+23
-870	7,363846E+22	7,364054E+22	5,191897E+22	5,191868E+22	1,472790E+23	1,038377E+23	2,511166E+23
-869	7,364270E+22	7,364192E+22	5,191791E+22	5,191902E+22	1,472846E+23	1,038369E+23	2,511215E+23
-868	7,364105E+22	7,363975E+22	5,191857E+22	5,191730E+22	1,472808E+23	1,038359E+23	2,511167E+23
-867	7,363949E+22	7,364150E+22	5,191829E+22	5,191710E+22	1,472810E+23	1,038354E+23	2,511164E+23
-866	7,364294E+22	7,364219E+22	5,191688E+22	5,191727E+22	1,472851E+23	1,038342E+23	2,511193E+23
-865	7,363925E+22	7,364005E+22	5,191714E+22	5,191645E+22	1,472793E+23	1,038336E+23	2,511129E+23
-864	7,364010E+22	7,364200E+22	5,191653E+22	5,191683E+22	1,472821E+23	1,038334E+23	2,511155E+23
-863	7,364235E+22	7,364089E+22	5,191612E+22	5,191609E+22	1,472832E+23	1,038322E+23	2,511155E+23
-862	7,363930E+22	7,364002E+22	5,191637E+22	5,191541E+22	1,472793E+23	1,038318E+23	2,511111E+23
-861	7,364278E+22	7,364197E+22	5,191563E+22	5,191671E+22	1,472848E+23	1,038323E+23	2,511171E+23
-860	7,364162E+22	7,364032E+22	5,191635E+22	5,191629E+22	1,472819E+23	1,038326E+23	2,511146E+23
-859	7,363880E+22	7,364161E+22	5,191719E+22	5,191668E+22	1,472804E+23	1,038339E+23	2,511143E+23
-858	7,364256E+22	7,364242E+22	5,191712E+22	5,191793E+22	1,472850E+23	1,038351E+23	2,511200E+23
-857	7,363991E+22	7,363944E+22	5,191866E+22	5,191771E+22	1,472794E+23	1,038364E+23	2,511157E+23
-856	7,363963E+22	7,364104E+22	5,191953E+22	5,191877E+22	1,472807E+23	1,038383E+23	2,511190E+23
-855	7,364220E+22	7,364071E+22	5,191948E+22	5,191978E+22	1,472829E+23	1,038393E+23	2,511222E+23
-854	7,363840E+22	7,363941E+22	5,192013E+22	5,191968E+22	1,472778E+23	1,038398E+23	2,511176E+23
-853	7,364059E+22	7,364149E+22	5,191975E+22	5,192110E+22	1,472821E+23	1,038409E+23	2,511229E+23
-852	7,364099E+22	7,363972E+22	5,192008E+22	5,192041E+22	1,472807E+23	1,038405E+23	2,511212E+23
-851	7,363826E+22	7,364004E+22	5,192051E+22	5,191929E+22	1,472783E+23	1,038398E+23	2,511181E+23
-850	7,364235E+22	7,364142E+22	5,191963E+22	5,191984E+22	1,472838E+23	1,038395E+23	2,511232E+23
-849	7,364049E+22	7,363903E+22	5,191959E+22	5,191866E+22	1,472795E+23	1,038382E+23	2,511178E+23
-848	7,363862E+22	7,364107E+22	5,191929E+22	5,191853E+22	1,472797E+23	1,038378E+23	2,511175E+23
-847	7,364166E+22	7,364164E+22	5,191807E+22	5,191895E+22	1,472833E+23	1,038370E+23	2,511203E+23
-846	7,363866E+22	7,363937E+22	5,191807E+22	5,191736E+22	1,472780E+23	1,038354E+23	2,511135E+23
-845	7,364036E+22	7,364118E+22	5,191768E+22	5,191780E+22	1,472815E+23	1,038355E+23	2,511170E+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	7,364216E+22	7,363999E+22	5,191736E+22	5,191741E+22	1,472821E+23	1,038348E+23	2,511169E+23
-843	7,363885E+22	7,364002E+22	5,191761E+22	5,191656E+22	1,472789E+23	1,038342E+23	2,511130E+23
-842	7,364182E+22	7,364225E+22	5,191724E+22	5,191818E+22	1,472841E+23	1,038354E+23	2,511195E+23
-841	7,364084E+22	7,363984E+22	5,191776E+22	5,191796E+22	1,472807E+23	1,038357E+23	2,511164E+23
-840	7,363819E+22	7,364083E+22	5,191909E+22	5,191806E+22	1,472790E+23	1,038371E+23	2,511162E+23
-839	7,364182E+22	7,364152E+22	5,191921E+22	5,191967E+22	1,472833E+23	1,038389E+23	2,511222E+23
-838	7,363946E+22	7,363854E+22	5,192015E+22	5,191915E+22	1,472780E+23	1,038393E+23	2,511173E+23
-837	7,363924E+22	7,364048E+22	5,192079E+22	5,192069E+22	1,472797E+23	1,038415E+23	2,511212E+23
-836	7,364117E+22	7,364004E+22	5,192062E+22	5,192186E+22	1,472812E+23	1,038425E+23	2,511237E+23
-835	7,363772E+22	7,363901E+22	5,192135E+22	5,192090E+22	1,472767E+23	1,038423E+23	2,511190E+23
-834	7,364025E+22	7,364102E+22	5,192141E+22	5,192197E+22	1,472813E+23	1,038434E+23	2,511246E+23
-833	7,364106E+22	7,363872E+22	5,192133E+22	5,192126E+22	1,472798E+23	1,038426E+23	2,511224E+23
-832	7,363815E+22	7,363942E+22	5,192193E+22	5,192013E+22	1,472776E+23	1,038421E+23	2,511196E+23
-831	7,364123E+22	7,364132E+22	5,192098E+22	5,192135E+22	1,472825E+23	1,038423E+23	2,511249E+23
-830	7,363928E+22	7,363901E+22	5,192049E+22	5,191994E+22	1,472783E+23	1,038404E+23	2,511187E+23
-829	7,363796E+22	7,364070E+22	5,192036E+22	5,191998E+22	1,472787E+23	1,038403E+23	2,511190E+23
-828	7,364089E+22	7,364058E+22	5,191935E+22	5,192036E+22	1,472815E+23	1,038397E+23	2,511212E+23
-827	7,363858E+22	7,363860E+22	5,191936E+22	5,191822E+22	1,472772E+23	1,038376E+23	2,511148E+23
-826	7,364031E+22	7,364063E+22	5,191913E+22	5,191889E+22	1,472809E+23	1,038380E+23	2,511190E+23
-825	7,364178E+22	7,363947E+22	5,191826E+22	5,191899E+22	1,472812E+23	1,038373E+23	2,511185E+23
-824	7,363825E+22	7,363982E+22	5,191886E+22	5,191806E+22	1,472781E+23	1,038369E+23	2,511150E+23
-823	7,364064E+22	7,364186E+22	5,191890E+22	5,191978E+22	1,472825E+23	1,038387E+23	2,511212E+23
-822	7,364017E+22	7,363919E+22	5,191931E+22	5,191902E+22	1,472794E+23	1,038383E+23	2,511177E+23
-821	7,363819E+22	7,363989E+22	5,192073E+22	5,191942E+22	1,472781E+23	1,038401E+23	2,511182E+23
-820	7,364100E+22	7,364040E+22	5,192084E+22	5,192149E+22	1,472814E+23	1,038423E+23	2,511237E+23
-819	7,363870E+22	7,363825E+22	5,192152E+22	5,192079E+22	1,472769E+23	1,038423E+23	2,511193E+23
-818	7,363843E+22	7,364023E+22	5,192232E+22	5,192236E+22	1,472787E+23	1,038447E+23	2,511233E+23
-817	7,364066E+22	7,363929E+22	5,192185E+22	5,192343E+22	1,472800E+23	1,038453E+23	2,511252E+23
-816	7,363765E+22	7,363831E+22	5,192295E+22	5,192188E+22	1,472760E+23	1,038448E+23	2,511208E+23
-815	7,363976E+22	7,364045E+22	5,192317E+22	5,192312E+22	1,472802E+23	1,038463E+23	2,511265E+23
-814	7,364057E+22	7,363841E+22	5,192257E+22	5,192228E+22	1,472790E+23	1,038448E+23	2,511238E+23
-813	7,363749E+22	7,363928E+22	5,192297E+22	5,192176E+22	1,472768E+23	1,038447E+23	2,511215E+23
-812	7,363969E+22	7,364080E+22	5,192209E+22	5,192321E+22	1,472805E+23	1,038453E+23	2,511258E+23
-811	7,363843E+22	7,363842E+22	5,192163E+22	5,192109E+22	1,472768E+23	1,038427E+23	2,511196E+23
-810	7,363773E+22	7,363978E+22	5,192180E+22	5,192089E+22	1,472775E+23	1,038427E+23	2,511202E+23
-809	7,364116E+22	7,363931E+22	5,192031E+22	5,192137E+22	1,472805E+23	1,038417E+23	2,511222E+23
-808	7,363877E+22	7,363795E+22	5,192047E+22	5,191914E+22	1,472767E+23	1,038396E+23	2,511163E+23
-807	7,363951E+22	7,364077E+22	5,192033E+22	5,192033E+22	1,472803E+23	1,038407E+23	2,511209E+23
-806	7,364093E+22	7,363959E+22	5,191927E+22	5,192013E+22	1,472805E+23	1,038394E+23	2,511199E+23
-805	7,363763E+22	7,363956E+22	5,192033E+22	5,191948E+22	1,472772E+23	1,038398E+23	2,511170E+23
-804	7,363955E+22	7,364096E+22	5,192080E+22	5,192131E+22	1,472805E+23	1,038421E+23	2,511226E+23
-803	7,363967E+22	7,363829E+22	5,192118E+22	5,192031E+22	1,472780E+23	1,038415E+23	2,511194E+23
-802	7,363771E+22	7,363905E+22	5,192259E+22	5,192113E+22	1,472768E+23	1,038437E+23	2,511205E+23
-801	7,364033E+22	7,363949E+22	5,192193E+22	5,192362E+22	1,472798E+23	1,038455E+23	2,511254E+23
-800	7,363816E+22	7,363764E+22	5,192276E+22	5,192252E+22	1,472758E+23	1,038453E+23	2,511211E+23
-799	7,363770E+22	7,363978E+22	5,192380E+22	5,192390E+22	1,472775E+23	1,038477E+23	2,511252E+23
-798	7,364046E+22	7,363876E+22	5,192317E+22	5,192423E+22	1,472792E+23	1,038474E+23	2,511266E+23
-797	7,363782E+22	7,363789E+22	5,192438E+22	5,192296E+22	1,472757E+23	1,038473E+23	2,511230E+23
-796	7,363874E+22	7,363999E+22	5,192470E+22	5,192456E+22	1,472787E+23	1,038493E+23	2,511280E+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	7,363947E+22	7,363847E+22	5,192388E+22	5,192363E+22	1,472779E+23	1,038475E+23	2,511255E+23
-794	7,363649E+22	7,363895E+22	5,192444E+22	5,192323E+22	1,472754E+23	1,038477E+23	2,511231E+23
-793	7,363898E+22	7,363968E+22	5,192316E+22	5,192464E+22	1,472787E+23	1,038478E+23	2,511265E+23
-792	7,363856E+22	7,363729E+22	5,192291E+22	5,192203E+22	1,472759E+23	1,038449E+23	2,511208E+23
-791	7,363767E+22	7,363889E+22	5,192301E+22	5,192194E+22	1,472766E+23	1,038450E+23	2,511215E+23
-790	7,364102E+22	7,363894E+22	5,192109E+22	5,192228E+22	1,472800E+23	1,038434E+23	2,511233E+23
-789	7,363849E+22	7,363809E+22	5,192120E+22	5,192055E+22	1,472766E+23	1,038418E+23	2,511183E+23
-788	7,363806E+22	7,364052E+22	5,192159E+22	5,192185E+22	1,472786E+23	1,038434E+23	2,511220E+23
-787	7,364000E+22	7,363931E+22	5,192085E+22	5,192118E+22	1,472793E+23	1,038420E+23	2,511214E+23
-786	7,363720E+22	7,363866E+22	5,192234E+22	5,192065E+22	1,472759E+23	1,038430E+23	2,511189E+23
-785	7,363915E+22	7,363959E+22	5,192235E+22	5,192290E+22	1,472787E+23	1,038452E+23	2,511240E+23
-784	7,363938E+22	7,363739E+22	5,192270E+22	5,192199E+22	1,472768E+23	1,038447E+23	2,511215E+23
-783	7,363675E+22	7,363875E+22	5,192393E+22	5,192316E+22	1,472755E+23	1,038471E+23	2,511226E+23
-782	7,363966E+22	7,363923E+22	5,192302E+22	5,192516E+22	1,472789E+23	1,038482E+23	2,511271E+23
-781	7,363803E+22	7,363736E+22	5,192410E+22	5,192397E+22	1,472754E+23	1,038481E+23	2,511235E+23
-780	7,363703E+22	7,363914E+22	5,192562E+22	5,192519E+22	1,472762E+23	1,038508E+23	2,511270E+23
-779	7,364014E+22	7,363837E+22	5,192496E+22	5,192522E+22	1,472785E+23	1,038502E+23	2,511287E+23
-778	7,363720E+22	7,363752E+22	5,192621E+22	5,192444E+22	1,472747E+23	1,038506E+23	2,511254E+23
-777	7,363762E+22	7,363932E+22	5,192581E+22	5,192644E+22	1,472769E+23	1,038522E+23	2,511292E+23
-776	7,363868E+22	7,363758E+22	5,192508E+22	5,192511E+22	1,472763E+23	1,038502E+23	2,511264E+23
-775	7,363581E+22	7,363804E+22	5,192565E+22	5,192452E+22	1,472739E+23	1,038502E+23	2,511240E+23
-774	7,363913E+22	7,363860E+22	5,192396E+22	5,192524E+22	1,472777E+23	1,038492E+23	2,511269E+23
-773	7,363900E+22	7,363671E+22	5,192365E+22	5,192290E+22	1,472757E+23	1,038465E+23	2,511223E+23
-772	7,363694E+22	7,363875E+22	5,192400E+22	5,192312E+22	1,472757E+23	1,038471E+23	2,511228E+23
-771	7,364012E+22	7,363935E+22	5,192216E+22	5,192329E+22	1,472795E+23	1,038454E+23	2,511249E+23
-770	7,363757E+22	7,363813E+22	5,192284E+22	5,192183E+22	1,472757E+23	1,038447E+23	2,511204E+23
-769	7,363709E+22	7,363965E+22	5,192312E+22	5,192326E+22	1,472767E+23	1,038464E+23	2,511231E+23
-768	7,363967E+22	7,363812E+22	5,192271E+22	5,192246E+22	1,472778E+23	1,038452E+23	2,511230E+23
-767	7,363671E+22	7,363760E+22	5,192407E+22	5,192236E+22	1,472743E+23	1,038464E+23	2,511207E+23
-766	7,363871E+22	7,363876E+22	5,192343E+22	5,192459E+22	1,472775E+23	1,038480E+23	2,511255E+23
-765	7,363901E+22	7,363715E+22	5,192357E+22	5,192405E+22	1,472762E+23	1,038476E+23	2,511238E+23
-764	7,363570E+22	7,363829E+22	5,192524E+22	5,192496E+22	1,472740E+23	1,038502E+23	2,511242E+23
-763	7,363923E+22	7,363892E+22	5,192464E+22	5,192617E+22	1,472782E+23	1,038508E+23	2,511290E+23
-762	7,363804E+22	7,363683E+22	5,192614E+22	5,192497E+22	1,472749E+23	1,038511E+23	2,511260E+23
-761	7,363655E+22	7,363824E+22	5,192727E+22	5,192652E+22	1,472748E+23	1,038538E+23	2,511286E+23
-760	7,363957E+22	7,363786E+22	5,192661E+22	5,192671E+22	1,472774E+23	1,038533E+23	2,511308E+23
-759	7,363598E+22	7,363715E+22	5,192761E+22	5,192624E+22	1,472731E+23	1,038538E+23	2,511270E+23
-758	7,363667E+22	7,363861E+22	5,192680E+22	5,192779E+22	1,472753E+23	1,038546E+23	2,511299E+23
-757	7,363853E+22	7,363694E+22	5,192599E+22	5,192640E+22	1,472755E+23	1,038524E+23	2,511278E+23
-756	7,363535E+22	7,363710E+22	5,192683E+22	5,192559E+22	1,472724E+23	1,038524E+23	2,511249E+23
-755	7,363905E+22	7,363824E+22	5,192508E+22	5,192600E+22	1,472773E+23	1,038511E+23	2,511284E+23
-754	7,363868E+22	7,363672E+22	5,192485E+22	5,192405E+22	1,472754E+23	1,038489E+23	2,511243E+23
-753	7,363589E+22	7,363848E+22	5,192491E+22	5,192459E+22	1,472744E+23	1,038495E+23	2,511239E+23
-752	7,363936E+22	7,363882E+22	5,192356E+22	5,192447E+22	1,472782E+23	1,038480E+23	2,511262E+23
-751	7,363676E+22	7,363734E+22	5,192451E+22	5,192310E+22	1,472741E+23	1,038476E+23	2,511217E+23
-750	7,363683E+22	7,363848E+22	5,192449E+22	5,192431E+22	1,472753E+23	1,038488E+23	2,511241E+23
-749	7,363968E+22	7,363737E+22	5,192389E+22	5,192403E+22	1,472770E+23	1,038479E+23	2,511250E+23
-748	7,363578E+22	7,363713E+22	5,192535E+22	5,192425E+22	1,472729E+23	1,038496E+23	2,511225E+23
-747	7,363798E+22	7,363874E+22	5,192468E+22	5,192614E+22	1,472767E+23	1,038508E+23	2,511275E+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							
-746	7,363848E+22	7,363703E+22	5,192530E+22	5,192558E+22	1,472755E+23	1,038509E+23	2,511264E+23
-745	7,363520E+22	7,363755E+22	5,192692E+22	5,192638E+22	1,472727E+23	1,038533E+23	2,511261E+23
-744	7,363916E+22	7,363794E+22	5,192669E+22	5,192728E+22	1,472771E+23	1,038540E+23	2,511311E+23
-743	7,363742E+22	7,363621E+22	5,192810E+22	5,192655E+22	1,472736E+23	1,038547E+23	2,511283E+23
-742	7,363570E+22	7,363766E+22	5,192846E+22	5,192814E+22	1,472734E+23	1,038566E+23	2,511300E+23
-741	7,363862E+22	7,363751E+22	5,192750E+22	5,192865E+22	1,472761E+23	1,038561E+23	2,511323E+23
-740	7,363472E+22	7,363639E+22	5,192878E+22	5,192792E+22	1,472711E+23	1,038567E+23	2,511278E+23
-739	7,363632E+22	7,363781E+22	5,192799E+22	5,192862E+22	1,472741E+23	1,038566E+23	2,511307E+23
-738	7,363872E+22	7,363626E+22	5,192735E+22	5,192720E+22	1,472750E+23	1,038546E+23	2,511295E+23
-737	7,363517E+22	7,363641E+22	5,192776E+22	5,192661E+22	1,472716E+23	1,038544E+23	2,511259E+23
-736	7,363868E+22	7,363803E+22	5,192622E+22	5,192702E+22	1,472767E+23	1,038532E+23	2,511299E+23
-735	7,363763E+22	7,363684E+22	5,192613E+22	5,192539E+22	1,472745E+23	1,038515E+23	2,511260E+23
-734	7,363502E+22	7,363798E+22	5,192608E+22	5,192566E+22	1,472730E+23	1,038517E+23	2,511247E+23
-733	7,363895E+22	7,363823E+22	5,192486E+22	5,192574E+22	1,472772E+23	1,038506E+23	2,511278E+23
-732	7,363609E+22	7,363626E+22	5,192615E+22	5,192456E+22	1,472723E+23	1,038507E+23	2,511230E+23
-731	7,363645E+22	7,363776E+22	5,192595E+22	5,192568E+22	1,472742E+23	1,038516E+23	2,511258E+23
-730	7,363922E+22	7,363710E+22	5,192527E+22	5,192587E+22	1,472763E+23	1,038511E+23	2,511275E+23
-729	7,363485E+22	7,363653E+22	5,192639E+22	5,192614E+22	1,472714E+23	1,038525E+23	2,511239E+23
-728	7,363761E+22	7,363805E+22	5,192627E+22	5,192751E+22	1,472757E+23	1,038538E+23	2,511294E+23
-727	7,363810E+22	7,363638E+22	5,192712E+22	5,192678E+22	1,472745E+23	1,038539E+23	2,511284E+23
-726	7,363499E+22	7,363664E+22	5,192851E+22	5,192742E+22	1,472716E+23	1,038559E+23	2,511276E+23
-725	7,363878E+22	7,363765E+22	5,192810E+22	5,192885E+22	1,472764E+23	1,038569E+23	2,511334E+23
-724	7,363599E+22	7,363589E+22	5,192964E+22	5,192851E+22	1,472719E+23	1,038581E+23	2,511300E+23
-723	7,363448E+22	7,363745E+22	5,192987E+22	5,192975E+22	1,472719E+23	1,038596E+23	2,511315E+23
-722	7,363791E+22	7,363703E+22	5,192905E+22	5,193016E+22	1,472749E+23	1,038592E+23	2,511341E+23
-721	7,363428E+22	7,363524E+22	5,193000E+22	5,192918E+22	1,472695E+23	1,038592E+23	2,511287E+23
-720	7,363665E+22	7,363667E+22	5,192942E+22	5,192948E+22	1,472733E+23	1,038589E+23	2,511322E+23
-719	7,363848E+22	7,363585E+22	5,192863E+22	5,192832E+22	1,472743E+23	1,038570E+23	2,511313E+23
-718	7,363463E+22	7,363621E+22	5,192850E+22	5,192776E+22	1,472708E+23	1,038563E+23	2,511271E+23
-717	7,363791E+22	7,363809E+22	5,192700E+22	5,192834E+22	1,472760E+23	1,038553E+23	2,511313E+23
-716	7,363642E+22	7,363635E+22	5,192754E+22	5,192668E+22	1,472728E+23	1,038542E+23	2,511270E+23
-715	7,363450E+22	7,363724E+22	5,192760E+22	5,192650E+22	1,472717E+23	1,038541E+23	2,511258E+23
-714	7,363871E+22	7,363748E+22	5,192651E+22	5,192695E+22	1,472762E+23	1,038535E+23	2,511296E+23
-713	7,363556E+22	7,363538E+22	5,192731E+22	5,192622E+22	1,472709E+23	1,038535E+23	2,511245E+23
-712	7,363606E+22	7,363707E+22	5,192721E+22	5,192726E+22	1,472731E+23	1,038545E+23	2,511276E+23
-711	7,363833E+22	7,363692E+22	5,192668E+22	5,192755E+22	1,472752E+23	1,038542E+23	2,511295E+23
-710	7,363440E+22	7,363597E+22	5,192764E+22	5,192740E+22	1,472704E+23	1,038550E+23	2,511254E+23
-709	7,363738E+22	7,363756E+22	5,192776E+22	5,192876E+22	1,472749E+23	1,038565E+23	2,511315E+23
-708	7,363738E+22	7,363571E+22	5,192910E+22	5,192830E+22	1,472731E+23	1,038574E+23	2,511305E+23
-707	7,363426E+22	7,363620E+22	5,193028E+22	5,192894E+22	1,472705E+23	1,038592E+23	2,511297E+23
-706	7,363769E+22	7,363750E+22	5,192973E+22	5,193084E+22	1,472752E+23	1,038606E+23	2,511358E+23
-705	7,363474E+22	7,363504E+22	5,193087E+22	5,193052E+22	1,472698E+23	1,038614E+23	2,511312E+23
-704	7,363411E+22	7,363615E+22	5,193138E+22	5,193107E+22	1,472703E+23	1,038625E+23	2,511327E+23
-703	7,363775E+22	7,363608E+22	5,193056E+22	5,193120E+22	1,472738E+23	1,038618E+23	2,511356E+23
-702	7,363456E+22	7,363430E+22	5,193097E+22	5,192996E+22	1,472689E+23	1,038609E+23	2,511298E+23
-701	7,363662E+22	7,363662E+22	5,193022E+22	5,193057E+22	1,472732E+23	1,038608E+23	2,511340E+23
-700	7,363738E+22	7,363604E+22	5,192976E+22	5,192968E+22	1,472734E+23	1,038594E+23	2,511329E+23
-699	7,363356E+22	7,363635E+22	5,192979E+22	5,192882E+22	1,472699E+23	1,038586E+23	2,511285E+23
-698	7,363704E+22	7,363795E+22	5,192862E+22	5,192952E+22	1,472750E+23	1,038581E+23	2,511331E+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							
-697	7,363567E+22	7,363516E+22	5,192899E+22	5,192798E+22	1,472708E+23	1,038570E+23	2,511278E+23
-696	7,363446E+22	7,363584E+22	5,192922E+22	5,192776E+22	1,472703E+23	1,038570E+23	2,511273E+23
-695	7,363820E+22	7,363675E+22	5,192782E+22	5,192857E+22	1,472749E+23	1,038564E+23	2,511313E+23
-694	7,363498E+22	7,363477E+22	5,192797E+22	5,192785E+22	1,472697E+23	1,038558E+23	2,511256E+23
-693	7,363559E+22	7,363688E+22	5,192797E+22	5,192882E+22	1,472725E+23	1,038568E+23	2,511293E+23
-692	7,363755E+22	7,363640E+22	5,192820E+22	5,192887E+22	1,472740E+23	1,038571E+23	2,511310E+23
-691	7,363414E+22	7,363546E+22	5,192945E+22	5,192826E+22	1,472696E+23	1,038577E+23	2,511273E+23
-690	7,363702E+22	7,363725E+22	5,192977E+22	5,193002E+22	1,472743E+23	1,038598E+23	2,511340E+23
-689	7,363636E+22	7,363509E+22	5,193077E+22	5,193016E+22	1,472714E+23	1,038609E+23	2,511324E+23
-688	7,363342E+22	7,363548E+22	5,193201E+22	5,193081E+22	1,472689E+23	1,038628E+23	2,511317E+23
-687	7,363653E+22	7,363694E+22	5,193141E+22	5,193267E+22	1,472735E+23	1,038641E+23	2,511375E+23
-686	7,363436E+22	7,363399E+22	5,193208E+22	5,193194E+22	1,472683E+23	1,038640E+23	2,511324E+23
-685	7,363429E+22	7,363532E+22	5,193249E+22	5,193224E+22	1,472696E+23	1,038647E+23	2,511343E+23
-684	7,363745E+22	7,363545E+22	5,193200E+22	5,193245E+22	1,472729E+23	1,038644E+23	2,511374E+23
-683	7,363419E+22	7,363431E+22	5,193213E+22	5,193103E+22	1,472685E+23	1,038632E+23	2,511317E+23
-682	7,363566E+22	7,363699E+22	5,193138E+22	5,193193E+22	1,472726E+23	1,038633E+23	2,511360E+23
-681	7,363612E+22	7,363563E+22	5,193090E+22	5,193113E+22	1,472718E+23	1,038620E+23	2,511338E+23
-680	7,363314E+22	7,363514E+22	5,193130E+22	5,192980E+22	1,472683E+23	1,038611E+23	2,511294E+23
-679	7,363645E+22	7,363691E+22	5,193019E+22	5,193051E+22	1,472734E+23	1,038607E+23	2,511341E+23
-678	7,363562E+22	7,363401E+22	5,192991E+22	5,192914E+22	1,472696E+23	1,038590E+23	2,511287E+23
-677	7,363425E+22	7,363535E+22	5,192988E+22	5,192920E+22	1,472696E+23	1,038591E+23	2,511287E+23
-676	7,363724E+22	7,363658E+22	5,192891E+22	5,193022E+22	1,472738E+23	1,038591E+23	2,511329E+23
-675	7,363437E+22	7,363472E+22	5,192919E+22	5,192899E+22	1,472691E+23	1,038582E+23	2,511273E+23
-674	7,363512E+22	7,363682E+22	5,192966E+22	5,192994E+22	1,472719E+23	1,038596E+23	2,511315E+23
-673	7,363701E+22	7,363557E+22	5,193003E+22	5,193019E+22	1,472726E+23	1,038602E+23	2,511328E+23
-672	7,363397E+22	7,363434E+22	5,193159E+22	5,192971E+22	1,472683E+23	1,038613E+23	2,511296E+23
-671	7,363591E+22	7,363682E+22	5,193168E+22	5,193193E+22	1,472727E+23	1,038636E+23	2,511363E+23
-670	7,363536E+22	7,363435E+22	5,193195E+22	5,193225E+22	1,472697E+23	1,038642E+23	2,511339E+23
-669	7,363277E+22	7,363475E+22	5,193311E+22	5,193267E+22	1,472675E+23	1,038658E+23	2,511333E+23
-668	7,363591E+22	7,363597E+22	5,193296E+22	5,193417E+22	1,472719E+23	1,038671E+23	2,511390E+23
-667	7,363441E+22	7,363331E+22	5,193346E+22	5,193283E+22	1,472677E+23	1,038663E+23	2,511340E+23
-666	7,363432E+22	7,363529E+22	5,193384E+22	5,193334E+22	1,472696E+23	1,038672E+23	2,511368E+23
-665	7,363665E+22	7,363524E+22	5,193314E+22	5,193384E+22	1,472719E+23	1,038670E+23	2,511389E+23
-664	7,363344E+22	7,363405E+22	5,193354E+22	5,193231E+22	1,472675E+23	1,038659E+23	2,511334E+23
-663	7,363441E+22	7,363677E+22	5,193293E+22	5,193308E+22	1,472712E+23	1,038660E+23	2,511372E+23
-662	7,363548E+22	7,363456E+22	5,193204E+22	5,193220E+22	1,472700E+23	1,038642E+23	2,511343E+23
-661	7,363308E+22	7,363404E+22	5,193238E+22	5,193091E+22	1,472671E+23	1,038633E+23	2,511304E+23
-660	7,363598E+22	7,363590E+22	5,193148E+22	5,193190E+22	1,472719E+23	1,038634E+23	2,511353E+23
-659	7,363520E+22	7,363372E+22	5,193077E+22	5,193046E+22	1,472689E+23	1,038612E+23	2,511301E+23
-658	7,363364E+22	7,363566E+22	5,193072E+22	5,193070E+22	1,472692E+23	1,038614E+23	2,511306E+23
-657	7,363637E+22	7,363606E+22	5,193009E+22	5,193159E+22	1,472724E+23	1,038617E+23	2,511341E+23
-656	7,363433E+22	7,363383E+22	5,193098E+22	5,192994E+22	1,472682E+23	1,038609E+23	2,511291E+23
-655	7,363460E+22	7,363621E+22	5,193172E+22	5,193094E+22	1,472708E+23	1,038627E+23	2,511335E+23
-654	7,363661E+22	7,363477E+22	5,193155E+22	5,193172E+22	1,472714E+23	1,038633E+23	2,511347E+23
-653	7,363330E+22	7,363391E+22	5,193292E+22	5,193166E+22	1,472672E+23	1,038646E+23	2,511318E+23
-652	7,363448E+22	7,363638E+22	5,193332E+22	5,193410E+22	1,472709E+23	1,038674E+23	2,511383E+23
-651	7,363459E+22	7,363388E+22	5,193342E+22	5,193389E+22	1,472685E+23	1,038673E+23	2,511358E+23
-650	7,363247E+22	7,363426E+22	5,193460E+22	5,193410E+22	1,472667E+23	1,038687E+23	2,511354E+23
-649	7,363567E+22	7,363494E+22	5,193450E+22	5,193554E+22	1,472706E+23	1,038700E+23	2,511407E+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							
-648	7,363462E+22	7,363244E+22	5,193502E+22	5,193399E+22	1,472671E+23	1,038690E+23	2,511361E+23
-647	7,363336E+22	7,363527E+22	5,193526E+22	5,193464E+22	1,472686E+23	1,038699E+23	2,511385E+23
-646	7,363573E+22	7,363490E+22	5,193401E+22	5,193527E+22	1,472706E+23	1,038693E+23	2,511399E+23
-645	7,363278E+22	7,363337E+22	5,193457E+22	5,193351E+22	1,472662E+23	1,038681E+23	2,511342E+23
-644	7,363355E+22	7,363577E+22	5,193446E+22	5,193415E+22	1,472693E+23	1,038686E+23	2,511379E+23
-643	7,363530E+22	7,363369E+22	5,193325E+22	5,193300E+22	1,472690E+23	1,038662E+23	2,511352E+23
-642	7,363292E+22	7,363374E+22	5,193334E+22	5,193212E+22	1,472667E+23	1,038655E+23	2,511321E+23
-641	7,363523E+22	7,363546E+22	5,193237E+22	5,193345E+22	1,472707E+23	1,038658E+23	2,511365E+23
-640	7,363480E+22	7,363336E+22	5,193195E+22	5,193176E+22	1,472682E+23	1,038637E+23	2,511319E+23
-639	7,363282E+22	7,363550E+22	5,193230E+22	5,193176E+22	1,472683E+23	1,038641E+23	2,511324E+23
-638	7,363606E+22	7,363532E+22	5,193148E+22	5,193270E+22	1,472714E+23	1,038642E+23	2,511356E+23
-637	7,363424E+22	7,363304E+22	5,193262E+22	5,193126E+22	1,472673E+23	1,038639E+23	2,511312E+23
-636	7,363368E+22	7,363554E+22	5,193364E+22	5,193277E+22	1,472692E+23	1,038664E+23	2,511356E+23
-635	7,363553E+22	7,363450E+22	5,193297E+22	5,193366E+22	1,472700E+23	1,038666E+23	2,511367E+23
-634	7,363238E+22	7,363376E+22	5,193419E+22	5,193377E+22	1,472661E+23	1,038680E+23	2,511341E+23
-633	7,363364E+22	7,363517E+22	5,193476E+22	5,193587E+22	1,472688E+23	1,038706E+23	2,511394E+23
-632	7,363472E+22	7,363261E+22	5,193510E+22	5,193505E+22	1,472673E+23	1,038702E+23	2,511375E+23
-631	7,363238E+22	7,363368E+22	5,193628E+22	5,193504E+22	1,472661E+23	1,038713E+23	2,511374E+23
-630	7,363548E+22	7,363434E+22	5,193563E+22	5,193680E+22	1,472698E+23	1,038724E+23	2,511422E+23
-629	7,363407E+22	7,363242E+22	5,193614E+22	5,193539E+22	1,472665E+23	1,038715E+23	2,511380E+23
-628	7,363198E+22	7,363513E+22	5,193679E+22	5,193611E+22	1,472671E+23	1,038729E+23	2,511400E+23
-627	7,363474E+22	7,363457E+22	5,193538E+22	5,193634E+22	1,472693E+23	1,038717E+23	2,511410E+23
-626	7,363234E+22	7,363285E+22	5,193588E+22	5,193466E+22	1,472652E+23	1,038705E+23	2,511357E+23
-625	7,363306E+22	7,363444E+22	5,193582E+22	5,193546E+22	1,472675E+23	1,038713E+23	2,511388E+23
-624	7,363526E+22	7,363276E+22	5,193447E+22	5,193432E+22	1,472680E+23	1,038688E+23	2,511368E+23
-623	7,363212E+22	7,363370E+22	5,193434E+22	5,193349E+22	1,472658E+23	1,038678E+23	2,511337E+23
-622	7,363464E+22	7,363501E+22	5,193302E+22	5,193488E+22	1,472697E+23	1,038679E+23	2,511376E+23
-621	7,363460E+22	7,363283E+22	5,193302E+22	5,193281E+22	1,472674E+23	1,038658E+23	2,511333E+23
-620	7,363222E+22	7,363483E+22	5,193408E+22	5,193278E+22	1,472670E+23	1,038669E+23	2,511339E+23
-619	7,363572E+22	7,363486E+22	5,193309E+22	5,193372E+22	1,472706E+23	1,038668E+23	2,511374E+23
-618	7,363366E+22	7,363291E+22	5,193407E+22	5,193294E+22	1,472666E+23	1,038670E+23	2,511336E+23
-617	7,363236E+22	7,363490E+22	5,193519E+22	5,193488E+22	1,472673E+23	1,038701E+23	2,511373E+23
-616	7,363481E+22	7,363369E+22	5,193459E+22	5,193547E+22	1,472685E+23	1,038701E+23	2,511386E+23
-615	7,363155E+22	7,363312E+22	5,193591E+22	5,193519E+22	1,472647E+23	1,038711E+23	2,511358E+23
-614	7,363362E+22	7,363398E+22	5,193611E+22	5,193724E+22	1,472676E+23	1,038734E+23	2,511409E+23
-613	7,363502E+22	7,363170E+22	5,193654E+22	5,193628E+22	1,472667E+23	1,038728E+23	2,511395E+23
-612	7,363171E+22	7,363336E+22	5,193795E+22	5,193658E+22	1,472651E+23	1,038745E+23	2,511396E+23
-611	7,363447E+22	7,363451E+22	5,193684E+22	5,193824E+22	1,472690E+23	1,038751E+23	2,511441E+23
-610	7,363302E+22	7,363258E+22	5,193735E+22	5,193698E+22	1,472656E+23	1,038743E+23	2,511399E+23
-609	7,363086E+22	7,363410E+22	5,193834E+22	5,193750E+22	1,472650E+23	1,038758E+23	2,511408E+23
-608	7,363451E+22	7,363333E+22	5,193695E+22	5,193733E+22	1,472678E+23	1,038743E+23	2,511421E+23
-607	7,363199E+22	7,363215E+22	5,193728E+22	5,193566E+22	1,472641E+23	1,038729E+23	2,511371E+23
-606	7,363286E+22	7,363361E+22	5,193650E+22	5,193686E+22	1,472665E+23	1,038734E+23	2,511398E+23
-605	7,363493E+22	7,363254E+22	5,193521E+22	5,193568E+22	1,472675E+23	1,038709E+23	2,511384E+23
-604	7,363124E+22	7,363363E+22	5,193559E+22	5,193477E+22	1,472649E+23	1,038704E+23	2,511352E+23
-603	7,363403E+22	7,363484E+22	5,193429E+22	5,193569E+22	1,472689E+23	1,038700E+23	2,511389E+23
-602	7,363440E+22	7,363266E+22	5,193449E+22	5,193388E+22	1,472671E+23	1,038684E+23	2,511354E+23
-601	7,363160E+22	7,363369E+22	5,193588E+22	5,193420E+22	1,472653E+23	1,038701E+23	2,511354E+23
-600	7,363503E+22	7,363409E+22	5,193478E+22	5,193537E+22	1,472691E+23	1,038702E+23	2,511393E+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							
-599	7,363242E+22	7,363269E+22	5,193556E+22	5,193481E+22	1,472651E+23	1,038704E+23	2,511355E+23
-598	7,363157E+22	7,363375E+22	5,193628E+22	5,193680E+22	1,472653E+23	1,038731E+23	2,511384E+23
-597	7,363467E+22	7,363257E+22	5,193598E+22	5,193689E+22	1,472672E+23	1,038729E+23	2,511401E+23
-596	7,363134E+22	7,363221E+22	5,193765E+22	5,193642E+22	1,472636E+23	1,038741E+23	2,511376E+23
-595	7,363350E+22	7,363360E+22	5,193753E+22	5,193831E+22	1,472671E+23	1,038758E+23	2,511429E+23
-594	7,363455E+22	7,363211E+22	5,193781E+22	5,193784E+22	1,472667E+23	1,038756E+23	2,511423E+23
-593	7,363037E+22	7,363312E+22	5,193955E+22	5,193837E+22	1,472635E+23	1,038779E+23	2,511414E+23
-592	7,363342E+22	7,363412E+22	5,193859E+22	5,193969E+22	1,472675E+23	1,038783E+23	2,511458E+23
-591	7,363199E+22	7,363208E+22	5,193917E+22	5,193819E+22	1,472641E+23	1,038774E+23	2,511414E+23
-590	7,363058E+22	7,363262E+22	5,193962E+22	5,193887E+22	1,472632E+23	1,038785E+23	2,511417E+23
-589	7,363463E+22	7,363211E+22	5,193811E+22	5,193861E+22	1,472667E+23	1,038767E+23	2,511435E+23
-588	7,363140E+22	7,363166E+22	5,193834E+22	5,193717E+22	1,472631E+23	1,038755E+23	2,511386E+23
-587	7,363227E+22	7,363363E+22	5,193709E+22	5,193811E+22	1,472659E+23	1,038752E+23	2,511411E+23
-586	7,363448E+22	7,363266E+22	5,193593E+22	5,193680E+22	1,472671E+23	1,038727E+23	2,511399E+23
-585	7,363060E+22	7,363280E+22	5,193707E+22	5,193571E+22	1,472634E+23	1,038728E+23	2,511362E+23
-584	7,363385E+22	7,363403E+22	5,193600E+22	5,193635E+22	1,472679E+23	1,038723E+23	2,511402E+23
-583	7,363370E+22	7,363227E+22	5,193625E+22	5,193495E+22	1,472660E+23	1,038712E+23	2,511372E+23
-582	7,363082E+22	7,363287E+22	5,193709E+22	5,193606E+22	1,472637E+23	1,038731E+23	2,511368E+23
-581	7,363421E+22	7,363343E+22	5,193607E+22	5,193724E+22	1,472676E+23	1,038733E+23	2,511410E+23
-580	7,363138E+22	7,363209E+22	5,193716E+22	5,193663E+22	1,472635E+23	1,038738E+23	2,511373E+23
-579	7,363119E+22	7,363308E+22	5,193762E+22	5,193811E+22	1,472643E+23	1,038757E+23	2,511400E+23
-578	7,363472E+22	7,363219E+22	5,193740E+22	5,193826E+22	1,472669E+23	1,038757E+23	2,511426E+23
-577	7,363094E+22	7,363141E+22	5,193947E+22	5,193802E+22	1,472623E+23	1,038775E+23	2,511398E+23
-576	7,363280E+22	7,363342E+22	5,193923E+22	5,193988E+22	1,472662E+23	1,038791E+23	2,511453E+23
-575	7,363323E+22	7,363233E+22	5,193951E+22	5,193951E+22	1,472656E+23	1,038790E+23	2,511446E+23
-574	7,362945E+22	7,363210E+22	5,194091E+22	5,194011E+22	1,472616E+23	1,038810E+23	2,511426E+23
-573	7,363301E+22	7,363285E+22	5,194016E+22	5,194091E+22	1,472659E+23	1,038811E+23	2,511469E+23
-572	7,363166E+22	7,363099E+22	5,194075E+22	5,193941E+22	1,472627E+23	1,038802E+23	2,511428E+23
-571	7,363045E+22	7,363186E+22	5,194052E+22	5,193993E+22	1,472623E+23	1,038805E+23	2,511428E+23
-570	7,363435E+22	7,363229E+22	5,193874E+22	5,193999E+22	1,472666E+23	1,038787E+23	2,511454E+23
-569	7,363060E+22	7,363132E+22	5,193934E+22	5,193849E+22	1,472619E+23	1,038778E+23	2,511398E+23
-568	7,363161E+22	7,363342E+22	5,193835E+22	5,193892E+22	1,472650E+23	1,038773E+23	2,511423E+23
-567	7,363380E+22	7,363261E+22	5,193754E+22	5,193748E+22	1,472664E+23	1,038750E+23	2,511414E+23
-566	7,363034E+22	7,363157E+22	5,193848E+22	5,193688E+22	1,472619E+23	1,038754E+23	2,511373E+23
-565	7,363344E+22	7,363306E+22	5,193757E+22	5,193771E+22	1,472665E+23	1,038753E+23	2,511418E+23
-564	7,363257E+22	7,363182E+22	5,193771E+22	5,193690E+22	1,472644E+23	1,038746E+23	2,511390E+23
-563	7,362982E+22	7,363238E+22	5,193802E+22	5,193788E+22	1,472622E+23	1,038759E+23	2,511381E+23
-562	7,363371E+22	7,363303E+22	5,193709E+22	5,193893E+22	1,472667E+23	1,038760E+23	2,511428E+23
-561	7,363103E+22	7,363089E+22	5,193877E+22	5,193802E+22	1,472619E+23	1,038768E+23	2,511387E+23
-560	7,363129E+22	7,363237E+22	5,193931E+22	5,193912E+22	1,472637E+23	1,038784E+23	2,511421E+23
-559	7,363428E+22	7,363223E+22	5,193921E+22	5,193950E+22	1,472665E+23	1,038787E+23	2,511452E+23
-558	7,363023E+22	7,363095E+22	5,194095E+22	5,193990E+22	1,472612E+23	1,038808E+23	2,511420E+23
-557	7,363185E+22	7,363300E+22	5,194095E+22	5,194155E+22	1,472648E+23	1,038825E+23	2,511473E+23
-556	7,363200E+22	7,363177E+22	5,194143E+22	5,194120E+22	1,472638E+23	1,038826E+23	2,511464E+23
-555	7,362895E+22	7,363114E+22	5,194233E+22	5,194141E+22	1,472601E+23	1,038837E+23	2,511438E+23
-554	7,363300E+22	7,363200E+22	5,194130E+22	5,194222E+22	1,472650E+23	1,038835E+23	2,511485E+23
-553	7,363126E+22	7,362991E+22	5,194202E+22	5,194092E+22	1,472612E+23	1,038829E+23	2,511441E+23
-552	7,362997E+22	7,363170E+22	5,194139E+22	5,194120E+22	1,472617E+23	1,038826E+23	2,511443E+23
-551	7,363340E+22	7,363254E+22	5,193978E+22	5,194110E+22	1,472659E+23	1,038809E+23	2,511468E+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	7,363011E+22	7,363054E+22	5,194034E+22	5,193961E+22	1,472606E+23	1,038800E+23	2,511406E+23
-549	7,363141E+22	7,363249E+22	5,193981E+22	5,193953E+22	1,472639E+23	1,038793E+23	2,511432E+23
-548	7,363326E+22	7,363196E+22	5,193919E+22	5,193850E+22	1,472652E+23	1,038777E+23	2,511429E+23
-547	7,362981E+22	7,363101E+22	5,193956E+22	5,193820E+22	1,472608E+23	1,038778E+23	2,511386E+23
-546	7,363261E+22	7,363303E+22	5,193848E+22	5,193950E+22	1,472656E+23	1,038780E+23	2,511436E+23
-545	7,363148E+22	7,363112E+22	5,193912E+22	5,193881E+22	1,472626E+23	1,038779E+23	2,511405E+23
-544	7,362927E+22	7,363179E+22	5,193946E+22	5,193920E+22	1,472611E+23	1,038787E+23	2,511397E+23
-543	7,363340E+22	7,363262E+22	5,193887E+22	5,194005E+22	1,472660E+23	1,038789E+23	2,511449E+23
-542	7,363120E+22	7,362968E+22	5,194032E+22	5,193948E+22	1,472609E+23	1,038798E+23	2,511407E+23
-541	7,363107E+22	7,363170E+22	5,194107E+22	5,194056E+22	1,472628E+23	1,038816E+23	2,511444E+23
-540	7,363319E+22	7,363225E+22	5,194094E+22	5,194145E+22	1,472654E+23	1,038824E+23	2,511478E+23
-539	7,362916E+22	7,363052E+22	5,194225E+22	5,194166E+22	1,472597E+23	1,038839E+23	2,511436E+23
-538	7,363104E+22	7,363251E+22	5,194234E+22	5,194314E+22	1,472635E+23	1,038855E+23	2,511490E+23
-537	7,363144E+22	7,363035E+22	5,194317E+22	5,194261E+22	1,472618E+23	1,038858E+23	2,511476E+23
-536	7,362876E+22	7,363016E+22	5,194370E+22	5,194246E+22	1,472589E+23	1,038862E+23	2,511451E+23
-535	7,363253E+22	7,363188E+22	5,194256E+22	5,194343E+22	1,472644E+23	1,038860E+23	2,511504E+23
-534	7,363078E+22	7,362937E+22	5,194279E+22	5,194248E+22	1,472601E+23	1,038853E+23	2,511454E+23
-533	7,362942E+22	7,363138E+22	5,194252E+22	5,194226E+22	1,472608E+23	1,038848E+23	2,511456E+23
-532	7,363258E+22	7,363238E+22	5,194124E+22	5,194210E+22	1,472650E+23	1,038833E+23	2,511483E+23
-531	7,362976E+22	7,362987E+22	5,194155E+22	5,194044E+22	1,472596E+23	1,038820E+23	2,511416E+23
-530	7,363112E+22	7,363199E+22	5,194103E+22	5,194066E+22	1,472631E+23	1,038817E+23	2,511448E+23
-529	7,363240E+22	7,363105E+22	5,194068E+22	5,194018E+22	1,472635E+23	1,038809E+23	2,511443E+23
-528	7,362890E+22	7,363069E+22	5,194064E+22	5,193985E+22	1,472596E+23	1,038805E+23	2,511401E+23
-527	7,363169E+22	7,363278E+22	5,193976E+22	5,194102E+22	1,472645E+23	1,038808E+23	2,511452E+23
-526	7,363124E+22	7,362983E+22	5,194030E+22	5,194033E+22	1,472611E+23	1,038806E+23	2,511417E+23
-525	7,362953E+22	7,363068E+22	5,194104E+22	5,194013E+22	1,472602E+23	1,038812E+23	2,511414E+23
-524	7,363314E+22	7,363212E+22	5,194064E+22	5,194129E+22	1,472653E+23	1,038819E+23	2,511472E+23
-523	7,363079E+22	7,362951E+22	5,194165E+22	5,194099E+22	1,472603E+23	1,038826E+23	2,511429E+23
-522	7,363016E+22	7,363191E+22	5,194237E+22	5,194233E+22	1,472621E+23	1,038847E+23	2,511468E+23
-521	7,363175E+22	7,363165E+22	5,194285E+22	5,194339E+22	1,472634E+23	1,038862E+23	2,511496E+23
-520	7,362825E+22	7,362992E+22	5,194401E+22	5,194313E+22	1,472582E+23	1,038871E+23	2,511453E+23
-519	7,363041E+22	7,363173E+22	5,194420E+22	5,194443E+22	1,472621E+23	1,038886E+23	2,511508E+23
-518	7,363135E+22	7,362885E+22	5,194454E+22	5,194430E+22	1,472602E+23	1,038888E+23	2,511490E+23
-517	7,362863E+22	7,362932E+22	5,194490E+22	5,194389E+22	1,472579E+23	1,038888E+23	2,511467E+23
-516	7,363166E+22	7,363185E+22	5,194366E+22	5,194502E+22	1,472635E+23	1,038887E+23	2,511522E+23
-515	7,363020E+22	7,362913E+22	5,194351E+22	5,194364E+22	1,472593E+23	1,038872E+23	2,511465E+23
-514	7,362907E+22	7,363112E+22	5,194353E+22	5,194305E+22	1,472602E+23	1,038866E+23	2,511468E+23
-513	7,363209E+22	7,363144E+22	5,194288E+22	5,194297E+22	1,472635E+23	1,038858E+23	2,511494E+23
-512	7,362935E+22	7,362936E+22	5,194293E+22	5,194133E+22	1,472587E+23	1,038843E+23	2,511430E+23
-511	7,363020E+22	7,363193E+22	5,194245E+22	5,194200E+22	1,472621E+23	1,038844E+23	2,511466E+23
-510	7,363158E+22	7,363023E+22	5,194171E+22	5,194209E+22	1,472618E+23	1,038838E+23	2,511456E+23
-509	7,362835E+22	7,362988E+22	5,194193E+22	5,194126E+22	1,472582E+23	1,038832E+23	2,511414E+23
-508	7,363121E+22	7,363222E+22	5,194130E+22	5,194236E+22	1,472634E+23	1,038837E+23	2,511471E+23
-507	7,363137E+22	7,362895E+22	5,194146E+22	5,194142E+22	1,472603E+23	1,038829E+23	2,511432E+23
-506	7,362951E+22	7,363034E+22	5,194235E+22	5,194140E+22	1,472598E+23	1,038838E+23	2,511436E+23
-505	7,363225E+22	7,363172E+22	5,194236E+22	5,194309E+22	1,472640E+23	1,038854E+23	2,511494E+23
-504	7,362951E+22	7,362955E+22	5,194315E+22	5,194277E+22	1,472591E+23	1,038859E+23	2,511450E+23
-503	7,362881E+22	7,363173E+22	5,194422E+22	5,194402E+22	1,472605E+23	1,038882E+23	2,511488E+23
-502	7,363109E+22	7,363011E+22	5,194450E+22	5,194438E+22	1,472612E+23	1,038889E+23	2,511501E+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	7,362823E+22	7,362842E+22	5,194573E+22	5,194436E+22	1,472566E+23	1,038901E+23	2,511467E+23
-500	7,363012E+22	7,363092E+22	5,194574E+22	5,194589E+22	1,472610E+23	1,038916E+23	2,511527E+23
-499	7,363105E+22	7,362845E+22	5,194534E+22	5,194579E+22	1,472595E+23	1,038911E+23	2,511506E+23
-498	7,362813E+22	7,362956E+22	5,194568E+22	5,194527E+22	1,472577E+23	1,038910E+23	2,511486E+23
-497	7,363072E+22	7,363150E+22	5,194515E+22	5,194629E+22	1,472622E+23	1,038914E+23	2,511537E+23
-496	7,362956E+22	7,362898E+22	5,194498E+22	5,194441E+22	1,472585E+23	1,038894E+23	2,511479E+23
-495	7,362854E+22	7,363072E+22	5,194528E+22	5,194384E+22	1,472593E+23	1,038891E+23	2,511484E+23
-494	7,363160E+22	7,363020E+22	5,194427E+22	5,194446E+22	1,472618E+23	1,038887E+23	2,511505E+23
-493	7,362881E+22	7,362857E+22	5,194417E+22	5,194288E+22	1,472574E+23	1,038871E+23	2,511444E+23
-492	7,362908E+22	7,363149E+22	5,194358E+22	5,194379E+22	1,472606E+23	1,038874E+23	2,511479E+23
-491	7,363106E+22	7,362948E+22	5,194244E+22	5,194356E+22	1,472605E+23	1,038860E+23	2,511465E+23
-490	7,362841E+22	7,362925E+22	5,194280E+22	5,194223E+22	1,472577E+23	1,038850E+23	2,511427E+23
-489	7,363097E+22	7,363126E+22	5,194287E+22	5,194342E+22	1,472622E+23	1,038863E+23	2,511485E+23
-488	7,363101E+22	7,362894E+22	5,194287E+22	5,194248E+22	1,472599E+23	1,038854E+23	2,511453E+23
-487	7,362854E+22	7,363062E+22	5,194407E+22	5,194287E+22	1,472592E+23	1,038869E+23	2,511461E+23
-486	7,363102E+22	7,363111E+22	5,194402E+22	5,194514E+22	1,472621E+23	1,038892E+23	2,511513E+23
-485	7,362864E+22	7,362868E+22	5,194511E+22	5,194443E+22	1,472573E+23	1,038895E+23	2,511469E+23
-484	7,362794E+22	7,363077E+22	5,194625E+22	5,194569E+22	1,472587E+23	1,038919E+23	2,511507E+23
-483	7,363100E+22	7,362879E+22	5,194587E+22	5,194669E+22	1,472598E+23	1,038926E+23	2,511523E+23
-482	7,362830E+22	7,362771E+22	5,194682E+22	5,194588E+22	1,472560E+23	1,038927E+23	2,511487E+23
-481	7,362944E+22	7,363044E+22	5,194706E+22	5,194769E+22	1,472599E+23	1,038948E+23	2,511546E+23
-480	7,363020E+22	7,362872E+22	5,194635E+22	5,194713E+22	1,472589E+23	1,038935E+23	2,511524E+23
-479	7,362733E+22	7,362965E+22	5,194721E+22	5,194628E+22	1,472570E+23	1,038935E+23	2,511505E+23
-478	7,363024E+22	7,363040E+22	5,194668E+22	5,194735E+22	1,472606E+23	1,038940E+23	2,511547E+23
-477	7,362937E+22	7,362791E+22	5,194665E+22	5,194522E+22	1,472573E+23	1,038919E+23	2,511491E+23
-476	7,362781E+22	7,363018E+22	5,194678E+22	5,194520E+22	1,472580E+23	1,038920E+23	2,511500E+23
-475	7,363086E+22	7,362960E+22	5,194493E+22	5,194604E+22	1,472605E+23	1,038910E+23	2,511514E+23
-474	7,362814E+22	7,362831E+22	5,194480E+22	5,194438E+22	1,472564E+23	1,038892E+23	2,511456E+23
-473	7,362836E+22	7,363075E+22	5,194482E+22	5,194520E+22	1,472591E+23	1,038900E+23	2,511491E+23
-472	7,363071E+22	7,362910E+22	5,194364E+22	5,194439E+22	1,472598E+23	1,038880E+23	2,511478E+23
-471	7,362829E+22	7,362895E+22	5,194446E+22	5,194311E+22	1,472572E+23	1,038876E+23	2,511448E+23
-470	7,363056E+22	7,363035E+22	5,194442E+22	5,194494E+22	1,472609E+23	1,038894E+23	2,511503E+23
-469	7,363026E+22	7,362854E+22	5,194452E+22	5,194412E+22	1,472588E+23	1,038886E+23	2,511474E+23
-468	7,362718E+22	7,363034E+22	5,194584E+22	5,194483E+22	1,472575E+23	1,038907E+23	2,511482E+23
-467	7,363015E+22	7,363009E+22	5,194541E+22	5,194686E+22	1,472602E+23	1,038923E+23	2,511525E+23
-466	7,362847E+22	7,362766E+22	5,194654E+22	5,194585E+22	1,472561E+23	1,038924E+23	2,511485E+23
-465	7,362766E+22	7,362945E+22	5,194803E+22	5,194726E+22	1,472571E+23	1,038953E+23	2,511524E+23
-464	7,363060E+22	7,362858E+22	5,194718E+22	5,194810E+22	1,472592E+23	1,038953E+23	2,511545E+23
-463	7,362768E+22	7,362802E+22	5,194822E+22	5,194739E+22	1,472557E+23	1,038956E+23	2,511513E+23
-462	7,362854E+22	7,362998E+22	5,194844E+22	5,194939E+22	1,472585E+23	1,038978E+23	2,511564E+23
-461	7,362966E+22	7,362831E+22	5,194806E+22	5,194824E+22	1,472580E+23	1,038963E+23	2,511543E+23
-460	7,362661E+22	7,362903E+22	5,194905E+22	5,194737E+22	1,472556E+23	1,038964E+23	2,511521E+23
-459	7,362984E+22	7,362933E+22	5,194793E+22	5,194852E+22	1,472592E+23	1,038965E+23	2,511556E+23
-458	7,362904E+22	7,362726E+22	5,194757E+22	5,194660E+22	1,472563E+23	1,038942E+23	2,511505E+23
-457	7,362670E+22	7,362942E+22	5,194784E+22	5,194702E+22	1,472561E+23	1,038949E+23	2,511510E+23
-456	7,362987E+22	7,362949E+22	5,194567E+22	5,194739E+22	1,472594E+23	1,038931E+23	2,511524E+23
-455	7,362777E+22	7,362795E+22	5,194593E+22	5,194532E+22	1,472557E+23	1,038912E+23	2,511470E+23
-454	7,362831E+22	7,362950E+22	5,194609E+22	5,194615E+22	1,472578E+23	1,038922E+23	2,511501E+23
-453	7,363089E+22	7,362836E+22	5,194518E+22	5,194511E+22	1,472593E+23	1,038903E+23	2,511495E+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	7,362762E+22	7,362882E+22	5,194615E+22	5,194445E+22	1,472564E+23	1,038906E+23	2,511470E+23
-451	7,362956E+22	7,363009E+22	5,194566E+22	5,194663E+22	1,472597E+23	1,038923E+23	2,511519E+23
-450	7,362932E+22	7,362830E+22	5,194592E+22	5,194588E+22	1,472576E+23	1,038918E+23	2,511494E+23
-449	7,362610E+22	7,362935E+22	5,194780E+22	5,194673E+22	1,472555E+23	1,038945E+23	2,511500E+23
-448	7,362952E+22	7,362937E+22	5,194705E+22	5,194828E+22	1,472589E+23	1,038953E+23	2,511542E+23
-447	7,362834E+22	7,362697E+22	5,194831E+22	5,194736E+22	1,472553E+23	1,038957E+23	2,511510E+23
-446	7,362733E+22	7,362841E+22	5,194945E+22	5,194923E+22	1,472557E+23	1,038987E+23	2,511544E+23
-445	7,363002E+22	7,362827E+22	5,194858E+22	5,194977E+22	1,472583E+23	1,038983E+23	2,511566E+23
-444	7,362671E+22	7,362797E+22	5,194979E+22	5,194900E+22	1,472547E+23	1,038988E+23	2,511535E+23
-443	7,362800E+22	7,362915E+22	5,194966E+22	5,195050E+22	1,472571E+23	1,039002E+23	2,511573E+23
-442	7,362947E+22	7,362754E+22	5,194937E+22	5,194910E+22	1,472570E+23	1,038985E+23	2,511555E+23
-441	7,362605E+22	7,362802E+22	5,195062E+22	5,194864E+22	1,472541E+23	1,038993E+23	2,511533E+23
-440	7,362891E+22	7,362912E+22	5,194893E+22	5,194973E+22	1,472580E+23	1,038987E+23	2,511567E+23
-439	7,362821E+22	7,362726E+22	5,194865E+22	5,194804E+22	1,472555E+23	1,038967E+23	2,511522E+23
-438	7,362596E+22	7,362849E+22	5,194885E+22	5,194856E+22	1,472544E+23	1,038974E+23	2,511519E+23
-437	7,362966E+22	7,362873E+22	5,194701E+22	5,194828E+22	1,472584E+23	1,038953E+23	2,511537E+23
-436	7,362761E+22	7,362739E+22	5,194748E+22	5,194619E+22	1,472550E+23	1,038937E+23	2,511487E+23
-435	7,362827E+22	7,362866E+22	5,194723E+22	5,194715E+22	1,472569E+23	1,038944E+23	2,511513E+23
-434	7,363055E+22	7,362822E+22	5,194632E+22	5,194649E+22	1,472588E+23	1,038928E+23	2,511516E+23
-433	7,362635E+22	7,362848E+22	5,194771E+22	5,194649E+22	1,472548E+23	1,038942E+23	2,511490E+23
-432	7,362812E+22	7,363000E+22	5,194708E+22	5,194829E+22	1,472581E+23	1,038954E+23	2,511535E+23
-431	7,362869E+22	7,362768E+22	5,194771E+22	5,194742E+22	1,472564E+23	1,038951E+23	2,511515E+23
-430	7,362579E+22	7,362769E+22	5,194952E+22	5,194840E+22	1,472535E+23	1,038979E+23	2,511514E+23
-429	7,362960E+22	7,362835E+22	5,194876E+22	5,194969E+22	1,472580E+23	1,038984E+23	2,511564E+23
-428	7,362787E+22	7,362668E+22	5,194984E+22	5,194901E+22	1,472545E+23	1,038989E+23	2,511534E+23
-427	7,362666E+22	7,362811E+22	5,195048E+22	5,195089E+22	1,472548E+23	1,039014E+23	2,511561E+23
-426	7,362948E+22	7,362820E+22	5,194984E+22	5,195111E+22	1,472577E+23	1,039010E+23	2,511586E+23
-425	7,362581E+22	7,362728E+22	5,195166E+22	5,195039E+22	1,472531E+23	1,039021E+23	2,511551E+23
-424	7,362720E+22	7,362873E+22	5,195127E+22	5,195141E+22	1,472559E+23	1,039027E+23	2,511586E+23
-423	7,362910E+22	7,362694E+22	5,195099E+22	5,195034E+22	1,472560E+23	1,039013E+23	2,511574E+23
-422	7,362528E+22	7,362688E+22	5,195181E+22	5,195045E+22	1,472522E+23	1,039023E+23	2,511544E+23
-421	7,362817E+22	7,362856E+22	5,194995E+22	5,195122E+22	1,472567E+23	1,039012E+23	2,511579E+23
-420	7,362747E+22	7,362682E+22	5,194977E+22	5,194935E+22	1,472543E+23	1,038991E+23	2,511534E+23
-419	7,362590E+22	7,362751E+22	5,194963E+22	5,194945E+22	1,472534E+23	1,038991E+23	2,511525E+23
-418	7,362996E+22	7,362810E+22	5,194803E+22	5,194889E+22	1,472581E+23	1,038969E+23	2,511550E+23
-417	7,362725E+22	7,362690E+22	5,194896E+22	5,194738E+22	1,472541E+23	1,038963E+23	2,511505E+23
-416	7,362721E+22	7,362900E+22	5,194842E+22	5,194834E+22	1,472562E+23	1,038968E+23	2,511530E+23
-415	7,362946E+22	7,362848E+22	5,194784E+22	5,194817E+22	1,472579E+23	1,038960E+23	2,511540E+23
-414	7,362525E+22	7,362750E+22	5,194938E+22	5,194847E+22	1,472528E+23	1,038978E+23	2,511506E+23
-413	7,362754E+22	7,362887E+22	5,194894E+22	5,194974E+22	1,472564E+23	1,038987E+23	2,511551E+23
-412	7,362838E+22	7,362665E+22	5,194961E+22	5,194896E+22	1,472550E+23	1,038986E+23	2,511536E+23
-411	7,362588E+22	7,362640E+22	5,195066E+22	5,194998E+22	1,472523E+23	1,039006E+23	2,511529E+23
-410	7,362936E+22	7,362793E+22	5,194983E+22	5,195133E+22	1,472573E+23	1,039012E+23	2,511585E+23
-409	7,362691E+22	7,362650E+22	5,195127E+22	5,195095E+22	1,472534E+23	1,039022E+23	2,511556E+23
-408	7,362558E+22	7,362815E+22	5,195185E+22	5,195206E+22	1,472537E+23	1,039039E+23	2,511576E+23
-407	7,362903E+22	7,362785E+22	5,195166E+22	5,195219E+22	1,472569E+23	1,039039E+23	2,511607E+23
-406	7,362535E+22	7,362592E+22	5,195345E+22	5,195173E+22	1,472513E+23	1,039052E+23	2,511565E+23
-405	7,362669E+22	7,362787E+22	5,195292E+22	5,195264E+22	1,472546E+23	1,039056E+23	2,511601E+23
-404	7,362816E+22	7,362665E+22	5,195236E+22	5,195197E+22	1,472548E+23	1,039043E+23	2,511591E+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							
-403	7,362457E+22	7,362618E+22	5,195247E+22	5,195205E+22	1,472508E+23	1,039045E+23	2,511553E+23
-402	7,362788E+22	7,362809E+22	5,195081E+22	5,195238E+22	1,472560E+23	1,039032E+23	2,511592E+23
-401	7,362711E+22	7,362618E+22	5,195108E+22	5,195048E+22	1,472533E+23	1,039016E+23	2,511549E+23
-400	7,362558E+22	7,362731E+22	5,195079E+22	5,195005E+22	1,472529E+23	1,039008E+23	2,511537E+23
-399	7,362981E+22	7,362804E+22	5,194944E+22	5,194997E+22	1,472578E+23	1,038994E+23	2,511573E+23
-398	7,362628E+22	7,362628E+22	5,195033E+22	5,194920E+22	1,472526E+23	1,038995E+23	2,511521E+23
-397	7,362608E+22	7,362867E+22	5,194992E+22	5,194997E+22	1,472548E+23	1,038999E+23	2,511546E+23
-396	7,362845E+22	7,362777E+22	5,194952E+22	5,194974E+22	1,472562E+23	1,038993E+23	2,511555E+23
-395	7,362501E+22	7,362594E+22	5,195061E+22	5,194983E+22	1,472509E+23	1,039004E+23	2,511514E+23
-394	7,362783E+22	7,362770E+22	5,195025E+22	5,195090E+22	1,472555E+23	1,039011E+23	2,511567E+23
-393	7,362804E+22	7,362592E+22	5,195108E+22	5,195064E+22	1,472540E+23	1,039017E+23	2,511557E+23
-392	7,362504E+22	7,362670E+22	5,195179E+22	5,195141E+22	1,472517E+23	1,039032E+23	2,511549E+23
-391	7,362864E+22	7,362825E+22	5,195136E+22	5,195293E+22	1,472569E+23	1,039043E+23	2,511612E+23
-390	7,362593E+22	7,362583E+22	5,195314E+22	5,195265E+22	1,472518E+23	1,039058E+23	2,511576E+23
-389	7,362493E+22	7,362746E+22	5,195392E+22	5,195322E+22	1,472524E+23	1,039071E+23	2,511595E+23
-388	7,362840E+22	7,362703E+22	5,195374E+22	5,195356E+22	1,472554E+23	1,039073E+23	2,511627E+23
-387	7,362495E+22	7,362469E+22	5,195465E+22	5,195344E+22	1,472496E+23	1,039081E+23	2,511577E+23
-386	7,362611E+22	7,362724E+22	5,195384E+22	5,195434E+22	1,472534E+23	1,039082E+23	2,511615E+23
-385	7,362716E+22	7,362618E+22	5,195339E+22	5,195386E+22	1,472533E+23	1,039072E+23	2,511606E+23
-384	7,362394E+22	7,362594E+22	5,195324E+22	5,195296E+22	1,472499E+23	1,039062E+23	2,511561E+23
-383	7,362799E+22	7,362769E+22	5,195201E+22	5,195310E+22	1,472557E+23	1,039051E+23	2,511608E+23
-382	7,362705E+22	7,362529E+22	5,195243E+22	5,195143E+22	1,472523E+23	1,039039E+23	2,511562E+23
-381	7,362518E+22	7,362698E+22	5,195221E+22	5,195089E+22	1,472522E+23	1,039031E+23	2,511553E+23
-380	7,362867E+22	7,362811E+22	5,195098E+22	5,195135E+22	1,472568E+23	1,039023E+23	2,511591E+23
-379	7,362536E+22	7,362554E+22	5,195140E+22	5,195084E+22	1,472509E+23	1,039022E+23	2,511531E+23
-378	7,362540E+22	7,362774E+22	5,195131E+22	5,195135E+22	1,472531E+23	1,039027E+23	2,511558E+23
-377	7,362783E+22	7,362672E+22	5,195120E+22	5,195137E+22	1,472545E+23	1,039026E+23	2,511571E+23
-376	7,362474E+22	7,362522E+22	5,195185E+22	5,195098E+22	1,472500E+23	1,039028E+23	2,511528E+23
-375	7,362779E+22	7,362737E+22	5,195161E+22	5,195249E+22	1,472552E+23	1,039041E+23	2,511593E+23
-374	7,362722E+22	7,362550E+22	5,195243E+22	5,195267E+22	1,472527E+23	1,039051E+23	2,511578E+23
-373	7,362409E+22	7,362660E+22	5,195344E+22	5,195295E+22	1,472507E+23	1,039064E+23	2,511571E+23
-372	7,362769E+22	7,362791E+22	5,195345E+22	5,195433E+22	1,472556E+23	1,039078E+23	2,511634E+23
-371	7,362557E+22	7,362456E+22	5,195480E+22	5,195403E+22	1,472501E+23	1,039088E+23	2,511590E+23
-370	7,362472E+22	7,362641E+22	5,195559E+22	5,195453E+22	1,472511E+23	1,039101E+23	2,511612E+23
-369	7,362754E+22	7,362635E+22	5,195525E+22	5,195546E+22	1,472539E+23	1,039107E+23	2,511646E+23
-368	7,362393E+22	7,362464E+22	5,195553E+22	5,195497E+22	1,472486E+23	1,039105E+23	2,511591E+23
-367	7,362566E+22	7,362711E+22	5,195491E+22	5,195585E+22	1,472528E+23	1,039108E+23	2,511635E+23
-366	7,362659E+22	7,362533E+22	5,195467E+22	5,195518E+22	1,472519E+23	1,039099E+23	2,511618E+23
-365	7,362386E+22	7,362542E+22	5,195471E+22	5,195358E+22	1,472493E+23	1,039083E+23	2,511576E+23
-364	7,362779E+22	7,362718E+22	5,195363E+22	5,195383E+22	1,472550E+23	1,039075E+23	2,511624E+23
-363	7,362660E+22	7,362452E+22	5,195343E+22	5,195270E+22	1,472511E+23	1,039061E+23	2,511573E+23
-362	7,362433E+22	7,362667E+22	5,195326E+22	5,195233E+22	1,472510E+23	1,039056E+23	2,511566E+23
-361	7,362725E+22	7,362761E+22	5,195229E+22	5,195316E+22	1,472549E+23	1,039055E+23	2,511603E+23
-360	7,362448E+22	7,362491E+22	5,195253E+22	5,195201E+22	1,472494E+23	1,039045E+23	2,511539E+23
-359	7,362547E+22	7,362681E+22	5,195270E+22	5,195257E+22	1,472523E+23	1,039053E+23	2,511575E+23
-358	7,362760E+22	7,362555E+22	5,195266E+22	5,195291E+22	1,472531E+23	1,039056E+23	2,511587E+23
-357	7,362438E+22	7,362501E+22	5,195325E+22	5,195233E+22	1,472494E+23	1,039056E+23	2,511550E+23
-356	7,362687E+22	7,362754E+22	5,195326E+22	5,195410E+22	1,472544E+23	1,039074E+23	2,511618E+23
-355	7,362645E+22	7,362503E+22	5,195386E+22	5,195441E+22	1,472515E+23	1,039083E+23	2,511598E+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	7,362351E+22	7,362594E+22	5,195533E+22	5,195433E+22	1,472494E+23	1,039097E+23	2,511591E+23
-353	7,362683E+22	7,362705E+22	5,195558E+22	5,195601E+22	1,472539E+23	1,039116E+23	2,511655E+23
-352	7,362501E+22	7,362380E+22	5,195638E+22	5,195544E+22	1,472488E+23	1,039118E+23	2,511606E+23
-351	7,362429E+22	7,362581E+22	5,195696E+22	5,195641E+22	1,472501E+23	1,039134E+23	2,511635E+23
-350	7,362653E+22	7,362565E+22	5,195642E+22	5,195759E+22	1,472522E+23	1,039140E+23	2,511662E+23
-349	7,362334E+22	7,362416E+22	5,195663E+22	5,195622E+22	1,472475E+23	1,039128E+23	2,511603E+23
-348	7,362529E+22	7,362653E+22	5,195638E+22	5,195669E+22	1,472518E+23	1,039131E+23	2,511649E+23
-347	7,362676E+22	7,362429E+22	5,195571E+22	5,195590E+22	1,472510E+23	1,039116E+23	2,511627E+23
-346	7,362385E+22	7,362474E+22	5,195597E+22	5,195426E+22	1,472486E+23	1,039102E+23	2,511588E+23
-345	7,362669E+22	7,362710E+22	5,195499E+22	5,195524E+22	1,472538E+23	1,039102E+23	2,511640E+23
-344	7,362532E+22	7,362464E+22	5,195439E+22	5,195400E+22	1,472500E+23	1,039084E+23	2,511583E+23
-343	7,362350E+22	7,362635E+22	5,195452E+22	5,195392E+22	1,472499E+23	1,039084E+23	2,511583E+23
-342	7,362633E+22	7,362653E+22	5,195379E+22	5,195480E+22	1,472529E+23	1,039086E+23	2,511615E+23
-341	7,362429E+22	7,362400E+22	5,195404E+22	5,195310E+22	1,472483E+23	1,039071E+23	2,511554E+23
-340	7,362537E+22	7,362606E+22	5,195436E+22	5,195386E+22	1,472514E+23	1,039082E+23	2,511597E+23
-339	7,362733E+22	7,362481E+22	5,195371E+22	5,195465E+22	1,472521E+23	1,039084E+23	2,511605E+23
-338	7,362380E+22	7,362479E+22	5,195458E+22	5,195397E+22	1,472486E+23	1,039085E+23	2,511571E+23
-337	7,362569E+22	7,362727E+22	5,195502E+22	5,195588E+22	1,472530E+23	1,039109E+23	2,511639E+23
-336	7,362567E+22	7,362454E+22	5,195553E+22	5,195559E+22	1,472502E+23	1,039111E+23	2,511613E+23
-335	7,362344E+22	7,362512E+22	5,195718E+22	5,195577E+22	1,472486E+23	1,039130E+23	2,511615E+23
-334	7,362607E+22	7,362590E+22	5,195737E+22	5,195783E+22	1,472520E+23	1,039152E+23	2,511672E+23
-333	7,362426E+22	7,362342E+22	5,195784E+22	5,195708E+22	1,472477E+23	1,039149E+23	2,511626E+23
-332	7,362345E+22	7,362549E+22	5,195840E+22	5,195805E+22	1,472489E+23	1,039165E+23	2,511654E+23
-331	7,362595E+22	7,362476E+22	5,195745E+22	5,195909E+22	1,472507E+23	1,039165E+23	2,511672E+23
-330	7,362325E+22	7,362347E+22	5,195797E+22	5,195710E+22	1,472467E+23	1,039151E+23	2,511618E+23
-329	7,362486E+22	7,362593E+22	5,195789E+22	5,195770E+22	1,472508E+23	1,039156E+23	2,511664E+23
-328	7,362632E+22	7,362402E+22	5,195682E+22	5,195673E+22	1,472503E+23	1,039136E+23	2,511639E+23
-327	7,362331E+22	7,362466E+22	5,195703E+22	5,195575E+22	1,472480E+23	1,039128E+23	2,511608E+23
-326	7,362514E+22	7,362664E+22	5,195618E+22	5,195708E+22	1,472518E+23	1,039133E+23	2,511650E+23
-325	7,362436E+22	7,362411E+22	5,195566E+22	5,195529E+22	1,472485E+23	1,039109E+23	2,511594E+23
-324	7,362309E+22	7,362532E+22	5,195611E+22	5,195499E+22	1,472484E+23	1,039111E+23	2,511595E+23
-323	7,362649E+22	7,362506E+22	5,195492E+22	5,195599E+22	1,472515E+23	1,039109E+23	2,511625E+23
-322	7,362452E+22	7,362319E+22	5,195526E+22	5,195420E+22	1,472477E+23	1,039095E+23	2,511572E+23
-321	7,362458E+22	7,362603E+22	5,195569E+22	5,195552E+22	1,472506E+23	1,039112E+23	2,511618E+23
-320	7,362644E+22	7,362505E+22	5,195488E+22	5,195604E+22	1,472515E+23	1,039109E+23	2,511624E+23
-319	7,362321E+22	7,362462E+22	5,195627E+22	5,195560E+22	1,472478E+23	1,039119E+23	2,511597E+23
-318	7,362461E+22	7,362646E+22	5,195715E+22	5,195757E+22	1,472511E+23	1,039147E+23	2,511658E+23
-317	7,362521E+22	7,362366E+22	5,195755E+22	5,195693E+22	1,472489E+23	1,039145E+23	2,511634E+23
-316	7,362288E+22	7,362417E+22	5,195917E+22	5,195746E+22	1,472470E+23	1,039166E+23	2,511637E+23
-315	7,362536E+22	7,362492E+22	5,195847E+22	5,195993E+22	1,472503E+23	1,039184E+23	2,511687E+23
-314	7,362363E+22	7,362275E+22	5,195895E+22	5,195881E+22	1,472464E+23	1,039178E+23	2,511642E+23
-313	7,362261E+22	7,362498E+22	5,195972E+22	5,195961E+22	1,472476E+23	1,039193E+23	2,511669E+23
-312	7,362573E+22	7,362423E+22	5,195857E+22	5,195980E+22	1,472500E+23	1,039184E+23	2,511683E+23
-311	7,362349E+22	7,362301E+22	5,195925E+22	5,195799E+22	1,472465E+23	1,039172E+23	2,511637E+23
-310	7,362404E+22	7,362547E+22	5,195932E+22	5,195893E+22	1,472495E+23	1,039183E+23	2,511678E+23
-309	7,362532E+22	7,362413E+22	5,195807E+22	5,195791E+22	1,472495E+23	1,039160E+23	2,511654E+23
-308	7,362222E+22	7,362441E+22	5,195854E+22	5,195718E+22	1,472466E+23	1,039157E+23	2,511624E+23
-307	7,362433E+22	7,362554E+22	5,195731E+22	5,195857E+22	1,472499E+23	1,039159E+23	2,511658E+23
-306	7,362427E+22	7,362295E+22	5,195706E+22	5,195638E+22	1,472472E+23	1,039134E+23	2,511607E+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							
-305	7,362292E+22	7,362436E+22	5,195750E+22	5,195631E+22	1,472473E+23	1,039138E+23	2,511611E+23
-304	7,362635E+22	7,362456E+22	5,195590E+22	5,195713E+22	1,472509E+23	1,039130E+23	2,511639E+23
-303	7,362435E+22	7,362328E+22	5,195624E+22	5,195588E+22	1,472476E+23	1,039121E+23	2,511597E+23
-302	7,362331E+22	7,362580E+22	5,195709E+22	5,195727E+22	1,472491E+23	1,039144E+23	2,511635E+23
-301	7,362553E+22	7,362483E+22	5,195662E+22	5,195727E+22	1,472504E+23	1,039139E+23	2,511643E+23
-300	7,362272E+22	7,362376E+22	5,195844E+22	5,195684E+22	1,472465E+23	1,039153E+23	2,511618E+23
-299	7,362411E+22	7,362498E+22	5,195883E+22	5,195916E+22	1,472491E+23	1,039180E+23	2,511671E+23
-298	7,362481E+22	7,362271E+22	5,195919E+22	5,195863E+22	1,472475E+23	1,039178E+23	2,511653E+23
-297	7,362183E+22	7,362372E+22	5,196054E+22	5,195956E+22	1,472455E+23	1,039201E+23	2,511656E+23
-296	7,362455E+22	7,362459E+22	5,195950E+22	5,196149E+22	1,472491E+23	1,039210E+23	2,511701E+23
-295	7,362351E+22	7,362244E+22	5,196017E+22	5,196024E+22	1,472459E+23	1,039204E+23	2,511664E+23
-294	7,362201E+22	7,362429E+22	5,196134E+22	5,196080E+22	1,472463E+23	1,039221E+23	2,511684E+23
-293	7,362553E+22	7,362386E+22	5,196018E+22	5,196060E+22	1,472494E+23	1,039208E+23	2,511702E+23
-292	7,362301E+22	7,362263E+22	5,196096E+22	5,195919E+22	1,472456E+23	1,039202E+23	2,511658E+23
-291	7,362295E+22	7,362484E+22	5,196037E+22	5,196061E+22	1,472478E+23	1,039210E+23	2,511688E+23
-290	7,362445E+22	7,362343E+22	5,195926E+22	5,195937E+22	1,472479E+23	1,039186E+23	2,511665E+23
-289	7,362135E+22	7,362352E+22	5,195983E+22	5,195861E+22	1,472449E+23	1,039184E+23	2,511633E+23
-288	7,362428E+22	7,362449E+22	5,195829E+22	5,195940E+22	1,472488E+23	1,039177E+23	2,511665E+23
-287	7,362472E+22	7,362224E+22	5,195800E+22	5,195747E+22	1,472470E+23	1,039155E+23	2,511624E+23
-286	7,362232E+22	7,362405E+22	5,195865E+22	5,195772E+22	1,472464E+23	1,039164E+23	2,511627E+23
-285	7,362560E+22	7,362488E+22	5,195705E+22	5,195833E+22	1,472505E+23	1,039154E+23	2,511659E+23
-284	7,362339E+22	7,362328E+22	5,195799E+22	5,195728E+22	1,472467E+23	1,039153E+23	2,511619E+23
-283	7,362232E+22	7,362501E+22	5,195876E+22	5,195880E+22	1,472473E+23	1,039176E+23	2,511649E+23
-282	7,362510E+22	7,362371E+22	5,195864E+22	5,195864E+22	1,472488E+23	1,039173E+23	2,511661E+23
-281	7,362208E+22	7,362267E+22	5,196040E+22	5,195868E+22	1,472447E+23	1,039191E+23	2,511638E+23
-280	7,362354E+22	7,362410E+22	5,196011E+22	5,196093E+22	1,472476E+23	1,039210E+23	2,511687E+23
-279	7,362436E+22	7,362237E+22	5,196021E+22	5,196078E+22	1,472467E+23	1,039210E+23	2,511677E+23
-278	7,362076E+22	7,362321E+22	5,196183E+22	5,196148E+22	1,472440E+23	1,039233E+23	2,511673E+23
-277	7,362414E+22	7,362420E+22	5,196100E+22	5,196251E+22	1,472483E+23	1,039235E+23	2,511718E+23
-276	7,362352E+22	7,362188E+22	5,196205E+22	5,196108E+22	1,472454E+23	1,039231E+23	2,511685E+23
-275	7,362173E+22	7,362339E+22	5,196279E+22	5,196188E+22	1,472451E+23	1,039247E+23	2,511698E+23
-274	7,362500E+22	7,362343E+22	5,196170E+22	5,196183E+22	1,472484E+23	1,039235E+23	2,511720E+23
-273	7,362173E+22	7,362245E+22	5,196233E+22	5,196094E+22	1,472442E+23	1,039233E+23	2,511674E+23
-272	7,362185E+22	7,362429E+22	5,196139E+22	5,196198E+22	1,472461E+23	1,039234E+23	2,511695E+23
-271	7,362418E+22	7,362282E+22	5,196031E+22	5,196079E+22	1,472470E+23	1,039211E+23	2,511681E+23
-270	7,362090E+22	7,362246E+22	5,196105E+22	5,195983E+22	1,472434E+23	1,039209E+23	2,511642E+23
-269	7,362424E+22	7,362391E+22	5,195946E+22	5,196026E+22	1,472482E+23	1,039197E+23	2,511679E+23
-268	7,362451E+22	7,362209E+22	5,195926E+22	5,195870E+22	1,472466E+23	1,039180E+23	2,511646E+23
-267	7,362136E+22	7,362368E+22	5,195959E+22	5,195929E+22	1,472450E+23	1,039189E+23	2,511639E+23
-266	7,362479E+22	7,362446E+22	5,195856E+22	5,195967E+22	1,472492E+23	1,039182E+23	2,511675E+23
-265	7,362250E+22	7,362255E+22	5,195982E+22	5,195874E+22	1,472450E+23	1,039186E+23	2,511636E+23
-264	7,362189E+22	7,362386E+22	5,196037E+22	5,195996E+22	1,472457E+23	1,039203E+23	2,511661E+23
-263	7,362503E+22	7,362291E+22	5,196007E+22	5,196032E+22	1,472479E+23	1,039204E+23	2,511683E+23
-262	7,362110E+22	7,362202E+22	5,196186E+22	5,196069E+22	1,472431E+23	1,039225E+23	2,511657E+23
-261	7,362273E+22	7,362397E+22	5,196147E+22	5,196260E+22	1,472467E+23	1,039241E+23	2,511708E+23
-260	7,362378E+22	7,362212E+22	5,196192E+22	5,196236E+22	1,472459E+23	1,039243E+23	2,511702E+23
-259	7,362025E+22	7,362240E+22	5,196338E+22	5,196290E+22	1,472427E+23	1,039263E+23	2,511689E+23
-258	7,362412E+22	7,362334E+22	5,196290E+22	5,196355E+22	1,472475E+23	1,039265E+23	2,511739E+23
-257	7,362297E+22	7,362131E+22	5,196391E+22	5,196254E+22	1,472443E+23	1,039264E+23	2,511707E+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							
-256	7,362095E+22	7,362297E+22	5,196399E+22	5,196335E+22	1,472439E+23	1,039273E+23	2,511713E+23
-255	7,362411E+22	7,362323E+22	5,196259E+22	5,196367E+22	1,472473E+23	1,039263E+23	2,511736E+23
-254	7,362039E+22	7,362175E+22	5,196351E+22	5,196264E+22	1,472421E+23	1,039262E+23	2,511683E+23
-253	7,362143E+22	7,362345E+22	5,196256E+22	5,196285E+22	1,472449E+23	1,039254E+23	2,511703E+23
-252	7,362424E+22	7,362193E+22	5,196168E+22	5,196161E+22	1,472462E+23	1,039233E+23	2,511695E+23
-251	7,362077E+22	7,362161E+22	5,196195E+22	5,196090E+22	1,472424E+23	1,039229E+23	2,511652E+23
-250	7,362396E+22	7,362359E+22	5,196059E+22	5,196134E+22	1,472476E+23	1,039219E+23	2,511695E+23
-249	7,362347E+22	7,362220E+22	5,196059E+22	5,196017E+22	1,472457E+23	1,039208E+23	2,511664E+23
-248	7,362047E+22	7,362330E+22	5,196090E+22	5,196048E+22	1,472438E+23	1,039214E+23	2,511651E+23
-247	7,362429E+22	7,362395E+22	5,196009E+22	5,196107E+22	1,472482E+23	1,039212E+23	2,511694E+23
-246	7,362171E+22	7,362152E+22	5,196172E+22	5,196038E+22	1,472432E+23	1,039221E+23	2,511653E+23
-245	7,362142E+22	7,362302E+22	5,196208E+22	5,196146E+22	1,472444E+23	1,039235E+23	2,511680E+23
-244	7,362443E+22	7,362248E+22	5,196169E+22	5,196229E+22	1,472469E+23	1,039240E+23	2,511709E+23
-243	7,362017E+22	7,362134E+22	5,196296E+22	5,196277E+22	1,472415E+23	1,039257E+23	2,511672E+23
-242	7,362230E+22	7,362323E+22	5,196305E+22	5,196414E+22	1,472455E+23	1,039272E+23	2,511727E+23
-241	7,362337E+22	7,362151E+22	5,196373E+22	5,196371E+22	1,472449E+23	1,039274E+23	2,511723E+23
-240	7,362013E+22	7,362155E+22	5,196491E+22	5,196387E+22	1,472417E+23	1,039288E+23	2,511705E+23
-239	7,362391E+22	7,362308E+22	5,196430E+22	5,196498E+22	1,472470E+23	1,039293E+23	2,511763E+23
-238	7,362168E+22	7,362105E+22	5,196534E+22	5,196430E+22	1,472427E+23	1,039296E+23	2,511724E+23
-237	7,361965E+22	7,362278E+22	5,196529E+22	5,196478E+22	1,472424E+23	1,039301E+23	2,511725E+23
-236	7,362324E+22	7,362279E+22	5,196406E+22	5,196507E+22	1,472460E+23	1,039291E+23	2,511752E+23
-235	7,361985E+22	7,362050E+22	5,196462E+22	5,196388E+22	1,472404E+23	1,039285E+23	2,511689E+23
-234	7,362167E+22	7,362220E+22	5,196394E+22	5,196374E+22	1,472439E+23	1,039277E+23	2,511715E+23
-233	7,362406E+22	7,362134E+22	5,196293E+22	5,196279E+22	1,472454E+23	1,039257E+23	2,511711E+23
-232	7,362031E+22	7,362133E+22	5,196271E+22	5,196207E+22	1,472416E+23	1,039248E+23	2,511664E+23
-231	7,362328E+22	7,362373E+22	5,196143E+22	5,196277E+22	1,472470E+23	1,039242E+23	2,511712E+23
-230	7,362225E+22	7,362178E+22	5,196209E+22	5,196160E+22	1,472440E+23	1,039237E+23	2,511677E+23
-229	7,361985E+22	7,362261E+22	5,196264E+22	5,196145E+22	1,472425E+23	1,039241E+23	2,511666E+23
-228	7,362394E+22	7,362314E+22	5,196201E+22	5,196238E+22	1,472471E+23	1,039244E+23	2,511715E+23
-227	7,362107E+22	7,362050E+22	5,196314E+22	5,196221E+22	1,472416E+23	1,039254E+23	2,511669E+23
-226	7,362092E+22	7,362229E+22	5,196358E+22	5,196332E+22	1,472432E+23	1,039269E+23	2,511701E+23
-225	7,362343E+22	7,362220E+22	5,196325E+22	5,196428E+22	1,472456E+23	1,039275E+23	2,511732E+23
-224	7,361971E+22	7,362079E+22	5,196432E+22	5,196425E+22	1,472405E+23	1,039286E+23	2,511691E+23
-223	7,362222E+22	7,362274E+22	5,196453E+22	5,196547E+22	1,472450E+23	1,039300E+23	2,511750E+23
-222	7,362274E+22	7,362086E+22	5,196566E+22	5,196516E+22	1,472436E+23	1,039308E+23	2,511744E+23
-221	7,361955E+22	7,362116E+22	5,196661E+22	5,196517E+22	1,472407E+23	1,039318E+23	2,511725E+23
-220	7,362280E+22	7,362290E+22	5,196588E+22	5,196671E+22	1,472457E+23	1,039326E+23	2,511783E+23
-219	7,362034E+22	7,362029E+22	5,196648E+22	5,196621E+22	1,472406E+23	1,039327E+23	2,511733E+23
-218	7,361916E+22	7,362151E+22	5,196671E+22	5,196607E+22	1,472407E+23	1,039328E+23	2,511734E+23
-217	7,362292E+22	7,362173E+22	5,196549E+22	5,196614E+22	1,472447E+23	1,039316E+23	2,511763E+23
-216	7,362013E+22	7,361947E+22	5,196548E+22	5,196462E+22	1,472396E+23	1,039301E+23	2,511697E+23
-215	7,362175E+22	7,362201E+22	5,196465E+22	5,196479E+22	1,472438E+23	1,039294E+23	2,511732E+23
-214	7,362304E+22	7,362152E+22	5,196401E+22	5,196415E+22	1,472446E+23	1,039282E+23	2,511727E+23
-213	7,361930E+22	7,362151E+22	5,196401E+22	5,196314E+22	1,472408E+23	1,039272E+23	2,511680E+23
-212	7,362231E+22	7,362361E+22	5,196321E+22	5,196398E+22	1,472459E+23	1,039272E+23	2,511731E+23
-211	7,362144E+22	7,362072E+22	5,196374E+22	5,196307E+22	1,472422E+23	1,039268E+23	2,511690E+23
-210	7,361968E+22	7,362120E+22	5,196453E+22	5,196291E+22	1,472409E+23	1,039274E+23	2,511683E+23
-209	7,362331E+22	7,362235E+22	5,196366E+22	5,196429E+22	1,472457E+23	1,039280E+23	2,511736E+23
-208	7,362047E+22	7,361978E+22	5,196405E+22	5,196412E+22	1,472403E+23	1,039282E+23	2,511684E+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							
-207	7,362045E+22	7,362201E+22	5,196451E+22	5,196520E+22	1,472425E+23	1,039297E+23	2,511722E+23
-206	7,362270E+22	7,362159E+22	5,196481E+22	5,196580E+22	1,472443E+23	1,039306E+23	2,511749E+23
-205	7,361946E+22	7,362017E+22	5,196611E+22	5,196512E+22	1,472396E+23	1,039312E+23	2,511709E+23
-204	7,362190E+22	7,362240E+22	5,196652E+22	5,196661E+22	1,472443E+23	1,039331E+23	2,511774E+23
-203	7,362182E+22	7,362023E+22	5,196724E+22	5,196684E+22	1,472420E+23	1,039341E+23	2,511761E+23
-202	7,361866E+22	7,362051E+22	5,196831E+22	5,196691E+22	1,472392E+23	1,039352E+23	2,511744E+23
-201	7,362150E+22	7,362241E+22	5,196750E+22	5,196847E+22	1,472439E+23	1,039360E+23	2,511799E+23
-200	7,361979E+22	7,361925E+22	5,196762E+22	5,196756E+22	1,472390E+23	1,039352E+23	2,511742E+23
-199	7,361927E+22	7,362065E+22	5,196772E+22	5,196724E+22	1,472399E+23	1,039350E+23	2,511749E+23
-198	7,362265E+22	7,362095E+22	5,196679E+22	5,196732E+22	1,472436E+23	1,039341E+23	2,511777E+23
-197	7,361987E+22	7,361937E+22	5,196655E+22	5,196558E+22	1,472392E+23	1,039321E+23	2,511714E+23
-196	7,362094E+22	7,362239E+22	5,196576E+22	5,196609E+22	1,472433E+23	1,039318E+23	2,511752E+23
-195	7,362180E+22	7,362122E+22	5,196514E+22	5,196564E+22	1,472430E+23	1,039308E+23	2,511738E+23
-194	7,361881E+22	7,362050E+22	5,196572E+22	5,196430E+22	1,472393E+23	1,039300E+23	2,511693E+23
-193	7,362161E+22	7,362262E+22	5,196507E+22	5,196519E+22	1,472442E+23	1,039303E+23	2,511745E+23
-192	7,362132E+22	7,361954E+22	5,196499E+22	5,196443E+22	1,472409E+23	1,039294E+23	2,511703E+23
-191	7,361951E+22	7,362056E+22	5,196545E+22	5,196460E+22	1,472401E+23	1,039300E+23	2,511701E+23
-190	7,362227E+22	7,362200E+22	5,196492E+22	5,196619E+22	1,472443E+23	1,039311E+23	2,511754E+23
-189	7,361982E+22	7,361966E+22	5,196537E+22	5,196545E+22	1,472395E+23	1,039308E+23	2,511703E+23
-188	7,361994E+22	7,362182E+22	5,196625E+22	5,196644E+22	1,472418E+23	1,039327E+23	2,511745E+23
-187	7,362215E+22	7,362078E+22	5,196665E+22	5,196719E+22	1,472429E+23	1,039338E+23	2,511768E+23
-186	7,361935E+22	7,361911E+22	5,196827E+22	5,196653E+22	1,472385E+23	1,039348E+23	2,511733E+23
-185	7,362081E+22	7,362196E+22	5,196849E+22	5,196842E+22	1,472428E+23	1,039369E+23	2,511797E+23
-184	7,362080E+22	7,361961E+22	5,196842E+22	5,196882E+22	1,472404E+23	1,039372E+23	2,511776E+23
-183	7,361791E+22	7,361982E+22	5,196935E+22	5,196873E+22	1,472377E+23	1,039381E+23	2,511758E+23
-182	7,362072E+22	7,362141E+22	5,196895E+22	5,196994E+22	1,472421E+23	1,039389E+23	2,511810E+23
-181	7,361982E+22	7,361845E+22	5,196886E+22	5,196833E+22	1,472383E+23	1,039372E+23	2,511755E+23
-180	7,361931E+22	7,362041E+22	5,196893E+22	5,196820E+22	1,472397E+23	1,039371E+23	2,511769E+23
-179	7,362199E+22	7,362072E+22	5,196778E+22	5,196864E+22	1,472427E+23	1,039364E+23	2,511791E+23
-178	7,361922E+22	7,361917E+22	5,196790E+22	5,196684E+22	1,472384E+23	1,039347E+23	2,511731E+23
-177	7,361973E+22	7,362230E+22	5,196738E+22	5,196731E+22	1,472420E+23	1,039347E+23	2,511767E+23
-176	7,362119E+22	7,362027E+22	5,196642E+22	5,196678E+22	1,472415E+23	1,039332E+23	2,511747E+23
-175	7,361869E+22	7,361945E+22	5,196701E+22	5,196558E+22	1,472381E+23	1,039326E+23	2,511707E+23
-174	7,362107E+22	7,362152E+22	5,196656E+22	5,196674E+22	1,472426E+23	1,039333E+23	2,511759E+23
-173	7,362077E+22	7,361903E+22	5,196607E+22	5,196591E+22	1,472398E+23	1,039320E+23	2,511718E+23
-172	7,361879E+22	7,362061E+22	5,196649E+22	5,196633E+22	1,472394E+23	1,039328E+23	2,511722E+23
-171	7,362138E+22	7,362136E+22	5,196616E+22	5,196784E+22	1,472427E+23	1,039340E+23	2,511767E+23
-170	7,361975E+22	7,361871E+22	5,196726E+22	5,196659E+22	1,472385E+23	1,039338E+23	2,511723E+23
-169	7,361948E+22	7,362120E+22	5,196838E+22	5,196754E+22	1,472407E+23	1,039359E+23	2,511766E+23
-168	7,362179E+22	7,362000E+22	5,196825E+22	5,196866E+22	1,472418E+23	1,039369E+23	2,511787E+23
-167	7,361868E+22	7,361877E+22	5,196968E+22	5,196845E+22	1,472375E+23	1,039381E+23	2,511756E+23
-166	7,361926E+22	7,362156E+22	5,197014E+22	5,197053E+22	1,472408E+23	1,039407E+23	2,511815E+23
-165	7,361982E+22	7,361914E+22	5,196989E+22	5,197040E+22	1,472390E+23	1,039403E+23	2,511792E+23
-164	7,361752E+22	7,361929E+22	5,197079E+22	5,197012E+22	1,472368E+23	1,039409E+23	2,511777E+23
-163	7,362044E+22	7,362030E+22	5,197035E+22	5,197128E+22	1,472407E+23	1,039416E+23	2,511824E+23
-162	7,362012E+22	7,361756E+22	5,197035E+22	5,196945E+22	1,472377E+23	1,039398E+23	2,511775E+23
-161	7,361856E+22	7,362036E+22	5,197027E+22	5,196944E+22	1,472389E+23	1,039397E+23	2,511786E+23
-160	7,362121E+22	7,362052E+22	5,196860E+22	5,197001E+22	1,472417E+23	1,039386E+23	2,511803E+23
-159	7,361866E+22	7,361866E+22	5,196888E+22	5,196804E+22	1,472373E+23	1,039369E+23	2,511742E+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							
-158	7,361874E+22	7,362133E+22	5,196895E+22	5,196841E+22	1,472401E+23	1,039374E+23	2,511774E+23
-157	7,362087E+22	7,361943E+22	5,196776E+22	5,196762E+22	1,472403E+23	1,039354E+23	2,511757E+23
-156	7,361842E+22	7,361896E+22	5,196817E+22	5,196689E+22	1,472374E+23	1,039351E+23	2,511724E+23
-155	7,362022E+22	7,362092E+22	5,196763E+22	5,196849E+22	1,472411E+23	1,039361E+23	2,511773E+23
-154	7,362032E+22	7,361855E+22	5,196741E+22	5,196747E+22	1,472389E+23	1,039349E+23	2,511738E+23
-153	7,361791E+22	7,362042E+22	5,196818E+22	5,196765E+22	1,472383E+23	1,039358E+23	2,511742E+23
-152	7,362108E+22	7,362063E+22	5,196765E+22	5,196911E+22	1,472417E+23	1,039368E+23	2,511785E+23
-151	7,361971E+22	7,361796E+22	5,196897E+22	5,196798E+22	1,472377E+23	1,039369E+23	2,511746E+23
-150	7,361857E+22	7,362054E+22	5,197042E+22	5,196934E+22	1,472391E+23	1,039398E+23	2,511789E+23
-149	7,362072E+22	7,361976E+22	5,196979E+22	5,197051E+22	1,472405E+23	1,039403E+23	2,511808E+23
-148	7,361760E+22	7,361862E+22	5,197105E+22	5,197057E+22	1,472362E+23	1,039416E+23	2,511778E+23
-147	7,361824E+22	7,362044E+22	5,197161E+22	5,197241E+22	1,472387E+23	1,039440E+23	2,511827E+23
-146	7,361987E+22	7,361781E+22	5,197159E+22	5,197162E+22	1,472377E+23	1,039432E+23	2,511809E+23
-145	7,361747E+22	7,361859E+22	5,197240E+22	5,197109E+22	1,472361E+23	1,039435E+23	2,511796E+23
-144	7,362049E+22	7,361959E+22	5,197130E+22	5,197239E+22	1,472401E+23	1,039437E+23	2,511838E+23
-143	7,361972E+22	7,361756E+22	5,197126E+22	5,197071E+22	1,472373E+23	1,039420E+23	2,511792E+23
-142	7,361727E+22	7,362033E+22	5,197161E+22	5,197075E+22	1,472376E+23	1,039424E+23	2,511800E+23
-141	7,362014E+22	7,362025E+22	5,196991E+22	5,197093E+22	1,472404E+23	1,039408E+23	2,511812E+23
-140	7,361806E+22	7,361822E+22	5,197029E+22	5,196919E+22	1,472363E+23	1,039395E+23	2,511758E+23
-139	7,361812E+22	7,362001E+22	5,197042E+22	5,196980E+22	1,472381E+23	1,039402E+23	2,511784E+23
-138	7,362075E+22	7,361835E+22	5,196920E+22	5,196908E+22	1,472391E+23	1,039383E+23	2,511774E+23
-137	7,361761E+22	7,361876E+22	5,196933E+22	5,196849E+22	1,472364E+23	1,039378E+23	2,511742E+23
-136	7,361961E+22	7,362037E+22	5,196839E+22	5,197015E+22	1,472400E+23	1,039385E+23	2,511785E+23
-135	7,362010E+22	7,361803E+22	5,196857E+22	5,196879E+22	1,472381E+23	1,039374E+23	2,511755E+23
-134	7,361734E+22	7,361970E+22	5,197005E+22	5,196882E+22	1,472370E+23	1,039389E+23	2,511759E+23
-133	7,362072E+22	7,362015E+22	5,196943E+22	5,197015E+22	1,472409E+23	1,039396E+23	2,511804E+23
-132	7,361913E+22	7,361788E+22	5,197063E+22	5,196970E+22	1,472370E+23	1,039403E+23	2,511773E+23
-131	7,361717E+22	7,361996E+22	5,197212E+22	5,197152E+22	1,472371E+23	1,039436E+23	2,511808E+23
-130	7,361988E+22	7,361904E+22	5,197161E+22	5,197246E+22	1,472389E+23	1,039441E+23	2,511830E+23
-129	7,361672E+22	7,361792E+22	5,197287E+22	5,197213E+22	1,472346E+23	1,039450E+23	2,511796E+23
-128	7,361819E+22	7,361918E+22	5,197295E+22	5,197382E+22	1,472374E+23	1,039468E+23	2,511841E+23
-127	7,362025E+22	7,361685E+22	5,197284E+22	5,197281E+22	1,472371E+23	1,039456E+23	2,511828E+23
-126	7,361689E+22	7,361812E+22	5,197383E+22	5,197245E+22	1,472350E+23	1,039463E+23	2,511813E+23
-125	7,361957E+22	7,361981E+22	5,197231E+22	5,197361E+22	1,472394E+23	1,039459E+23	2,511853E+23
-124	7,361869E+22	7,361780E+22	5,197230E+22	5,197211E+22	1,472365E+23	1,039444E+23	2,511809E+23
-123	7,361608E+22	7,361943E+22	5,197308E+22	5,197206E+22	1,472355E+23	1,039451E+23	2,511806E+23
-122	7,361984E+22	7,361906E+22	5,197155E+22	5,197188E+22	1,472389E+23	1,039434E+23	2,511823E+23
-121	7,361761E+22	7,361741E+22	5,197179E+22	5,197024E+22	1,472350E+23	1,039420E+23	2,511771E+23
-120	7,361788E+22	7,361906E+22	5,197124E+22	5,197130E+22	1,472369E+23	1,039425E+23	2,511795E+23
-119	7,362037E+22	7,361800E+22	5,197000E+22	5,197063E+22	1,472384E+23	1,039406E+23	2,511790E+23
-118	7,361666E+22	7,361857E+22	5,197062E+22	5,196998E+22	1,472352E+23	1,039406E+23	2,511758E+23
-117	7,361902E+22	7,362016E+22	5,196975E+22	5,197113E+22	1,472392E+23	1,039409E+23	2,511801E+23
-116	7,361984E+22	7,361786E+22	5,197019E+22	5,197002E+22	1,472377E+23	1,039402E+23	2,511779E+23
-115	7,361673E+22	7,361869E+22	5,197207E+22	5,197040E+22	1,472354E+23	1,039425E+23	2,511779E+23
-114	7,362009E+22	7,361938E+22	5,197143E+22	5,197192E+22	1,472395E+23	1,039434E+23	2,511828E+23
-113	7,361788E+22	7,361768E+22	5,197242E+22	5,197175E+22	1,472356E+23	1,039442E+23	2,511797E+23
-112	7,361634E+22	7,361883E+22	5,197334E+22	5,197359E+22	1,472352E+23	1,039469E+23	2,511821E+23
-111	7,361958E+22	7,361786E+22	5,197301E+22	5,197401E+22	1,472374E+23	1,039470E+23	2,511845E+23
-110	7,361644E+22	7,361692E+22	5,197449E+22	5,197338E+22	1,472334E+23	1,039479E+23	2,511812E+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							
-109	7,361810E+22	7,361862E+22	5,197421E+22	5,197477E+22	1,472367E+23	1,039490E+23	2,511857E+23
-108	7,361985E+22	7,361719E+22	5,197396E+22	5,197420E+22	1,472370E+23	1,039482E+23	2,511852E+23
-107	7,361565E+22	7,361797E+22	5,197523E+22	5,197405E+22	1,472336E+23	1,039493E+23	2,511829E+23
-106	7,361856E+22	7,361949E+22	5,197397E+22	5,197488E+22	1,472381E+23	1,039488E+23	2,511869E+23
-105	7,361764E+22	7,361742E+22	5,197407E+22	5,197322E+22	1,472351E+23	1,039473E+23	2,511823E+23
-104	7,361573E+22	7,361800E+22	5,197435E+22	5,197334E+22	1,472337E+23	1,039477E+23	2,511814E+23
-103	7,361985E+22	7,361785E+22	5,197276E+22	5,197318E+22	1,472377E+23	1,039459E+23	2,511836E+23
-102	7,361701E+22	7,361675E+22	5,197291E+22	5,197181E+22	1,472338E+23	1,039447E+23	2,511785E+23
-101	7,361722E+22	7,361894E+22	5,197191E+22	5,197268E+22	1,472362E+23	1,039446E+23	2,511808E+23
-100	7,361987E+22	7,361814E+22	5,197085E+22	5,197202E+22	1,472380E+23	1,039429E+23	2,511809E+23
-99	7,361601E+22	7,361777E+22	5,197222E+22	5,197116E+22	1,472338E+23	1,039434E+23	2,511772E+23
-98	7,361893E+22	7,361939E+22	5,197171E+22	5,197201E+22	1,472383E+23	1,039437E+23	2,511820E+23
-97	7,361926E+22	7,361745E+22	5,197219E+22	5,197122E+22	1,472367E+23	1,039434E+23	2,511801E+23
-96	7,361598E+22	7,361786E+22	5,197353E+22	5,197235E+22	1,472338E+23	1,039459E+23	2,511797E+23
-95	7,361918E+22	7,361879E+22	5,197286E+22	5,197391E+22	1,472380E+23	1,039468E+23	2,511847E+23
-94	7,361662E+22	7,361695E+22	5,197411E+22	5,197370E+22	1,472336E+23	1,039478E+23	2,511814E+23
-93	7,361576E+22	7,361806E+22	5,197475E+22	5,197500E+22	1,472338E+23	1,039498E+23	2,511836E+23
-92	7,361956E+22	7,361735E+22	5,197440E+22	5,197544E+22	1,472369E+23	1,039498E+23	2,511867E+23
-91	7,361610E+22	7,361602E+22	5,197620E+22	5,197490E+22	1,472321E+23	1,039511E+23	2,511832E+23
-90	7,361764E+22	7,361836E+22	5,197578E+22	5,197617E+22	1,472360E+23	1,039520E+23	2,511880E+23
-89	7,361862E+22	7,361746E+22	5,197548E+22	5,197567E+22	1,472361E+23	1,039512E+23	2,511872E+23
-88	7,361476E+22	7,361713E+22	5,197644E+22	5,197562E+22	1,472319E+23	1,039521E+23	2,511839E+23
-87	7,361807E+22	7,361834E+22	5,197542E+22	5,197596E+22	1,472364E+23	1,039514E+23	2,511878E+23
-86	7,361715E+22	7,361630E+22	5,197562E+22	5,197435E+22	1,472334E+23	1,039500E+23	2,511834E+23
-85	7,361553E+22	7,361717E+22	5,197529E+22	5,197438E+22	1,472327E+23	1,039497E+23	2,511824E+23
-84	7,361949E+22	7,361789E+22	5,197346E+22	5,197466E+22	1,472374E+23	1,039481E+23	2,511855E+23
-83	7,361619E+22	7,361642E+22	5,197399E+22	5,197335E+22	1,472326E+23	1,039473E+23	2,511799E+23
-82	7,361668E+22	7,361865E+22	5,197330E+22	5,197372E+22	1,472353E+23	1,039470E+23	2,511823E+23
-81	7,361926E+22	7,361808E+22	5,197263E+22	5,197292E+22	1,472373E+23	1,039455E+23	2,511829E+23
-80	7,361586E+22	7,361660E+22	5,197377E+22	5,197245E+22	1,472325E+23	1,039462E+23	2,511787E+23
-79	7,361849E+22	7,361841E+22	5,197346E+22	5,197345E+22	1,472369E+23	1,039469E+23	2,511838E+23
-78	7,361807E+22	7,361701E+22	5,197386E+22	5,197327E+22	1,472351E+23	1,039471E+23	2,511822E+23
-77	7,361481E+22	7,361734E+22	5,197466E+22	5,197431E+22	1,472322E+23	1,039490E+23	2,511811E+23
-76	7,361842E+22	7,361835E+22	5,197407E+22	5,197584E+22	1,472368E+23	1,039499E+23	2,511867E+23
-75	7,361615E+22	7,361567E+22	5,197580E+22	5,197527E+22	1,472318E+23	1,039511E+23	2,511829E+23
-74	7,361590E+22	7,361714E+22	5,197649E+22	5,197608E+22	1,472330E+23	1,039526E+23	2,511856E+23
-73	7,361924E+22	7,361727E+22	5,197615E+22	5,197662E+22	1,472365E+23	1,039528E+23	2,511893E+23
-72	7,361555E+22	7,361557E+22	5,197750E+22	5,197659E+22	1,472311E+23	1,039541E+23	2,511852E+23
-71	7,361673E+22	7,361809E+22	5,197733E+22	5,197764E+22	1,472348E+23	1,039550E+23	2,511898E+23
-70	7,361739E+22	7,361704E+22	5,197725E+22	5,197717E+22	1,472344E+23	1,039544E+23	2,511888E+23
-69	7,361409E+22	7,361626E+22	5,197781E+22	5,197676E+22	1,472304E+23	1,039546E+23	2,511849E+23
-68	7,361788E+22	7,361762E+22	5,197659E+22	5,197727E+22	1,472355E+23	1,039539E+23	2,511894E+23
-67	7,361670E+22	7,361517E+22	5,197695E+22	5,197589E+22	1,472319E+23	1,039528E+23	2,511847E+23
-66	7,361518E+22	7,361685E+22	5,197628E+22	5,197577E+22	1,472320E+23	1,039520E+23	2,511841E+23
-65	7,361867E+22	7,361803E+22	5,197450E+22	5,197589E+22	1,472367E+23	1,039504E+23	2,511871E+23
-64	7,361575E+22	7,361561E+22	5,197497E+22	5,197459E+22	1,472314E+23	1,039496E+23	2,511809E+23
-63	7,361653E+22	7,361778E+22	5,197476E+22	5,197443E+22	1,472343E+23	1,039492E+23	2,511835E+23
-62	7,361869E+22	7,361736E+22	5,197436E+22	5,197398E+22	1,472360E+23	1,039483E+23	2,511844E+23
-61	7,361525E+22	7,361604E+22	5,197510E+22	5,197383E+22	1,472313E+23	1,039489E+23	2,511802E+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	7,361752E+22	7,361838E+22	5,197462E+22	5,197540E+22	1,472359E+23	1,039500E+23	2,511859E+23
-59	7,361679E+22	7,361627E+22	5,197550E+22	5,197538E+22	1,472331E+23	1,039509E+23	2,511839E+23
-58	7,361419E+22	7,361660E+22	5,197632E+22	5,197588E+22	1,472308E+23	1,039522E+23	2,511830E+23
-57	7,361801E+22	7,361777E+22	5,197595E+22	5,197711E+22	1,472358E+23	1,039531E+23	2,511888E+23
-56	7,361634E+22	7,361439E+22	5,197735E+22	5,197679E+22	1,472307E+23	1,039541E+23	2,511849E+23
-55	7,361585E+22	7,361638E+22	5,197815E+22	5,197747E+22	1,472322E+23	1,039556E+23	2,511879E+23
-54	7,361820E+22	7,361726E+22	5,197779E+22	5,197843E+22	1,472355E+23	1,039562E+23	2,511917E+23
-53	7,361448E+22	7,361536E+22	5,197872E+22	5,197823E+22	1,472298E+23	1,039569E+23	2,511868E+23
-52	7,361580E+22	7,361777E+22	5,197866E+22	5,197915E+22	1,472336E+23	1,039578E+23	2,511914E+23
-51	7,361671E+22	7,361577E+22	5,197901E+22	5,197854E+22	1,472325E+23	1,039575E+23	2,511900E+23
-50	7,361397E+22	7,361518E+22	5,197923E+22	5,197778E+22	1,472292E+23	1,039570E+23	2,511862E+23
-49	7,361742E+22	7,361735E+22	5,197787E+22	5,197845E+22	1,472348E+23	1,039563E+23	2,511911E+23
-48	7,361632E+22	7,361455E+22	5,197761E+22	5,197745E+22	1,472309E+23	1,039551E+23	2,511859E+23
-47	7,361461E+22	7,361644E+22	5,197727E+22	5,197688E+22	1,472310E+23	1,039542E+23	2,511852E+23
-46	7,361783E+22	7,361785E+22	5,197591E+22	5,197695E+22	1,472357E+23	1,039529E+23	2,511885E+23
-45	7,361539E+22	7,361500E+22	5,197621E+22	5,197545E+22	1,472304E+23	1,039517E+23	2,511820E+23
-44	7,361619E+22	7,361735E+22	5,197616E+22	5,197562E+22	1,472335E+23	1,039518E+23	2,511853E+23
-43	7,361785E+22	7,361649E+22	5,197608E+22	5,197574E+22	1,472343E+23	1,039518E+23	2,511862E+23
-42	7,361432E+22	7,361563E+22	5,197650E+22	5,197565E+22	1,472300E+23	1,039521E+23	2,511821E+23
-41	7,361642E+22	7,361811E+22	5,197616E+22	5,197715E+22	1,472345E+23	1,039533E+23	2,511878E+23
-40	7,361641E+22	7,361490E+22	5,197684E+22	5,197714E+22	1,472313E+23	1,039540E+23	2,511853E+23
-39	7,361435E+22	7,361536E+22	5,197797E+22	5,197701E+22	1,472297E+23	1,039550E+23	2,511847E+23
-38	7,361782E+22	7,361712E+22	5,197774E+22	5,197845E+22	1,472349E+23	1,039562E+23	2,511911E+23
-37	7,361596E+22	7,361417E+22	5,197867E+22	5,197827E+22	1,472301E+23	1,039569E+23	2,511871E+23
-36	7,361497E+22	7,361677E+22	5,197944E+22	5,197924E+22	1,472317E+23	1,039587E+23	2,511904E+23
-35	7,361681E+22	7,361682E+22	5,197968E+22	5,198030E+22	1,472336E+23	1,039600E+23	2,511936E+23
-34	7,361360E+22	7,361483E+22	5,198053E+22	5,197965E+22	1,472284E+23	1,039602E+23	2,511886E+23
-33	7,361513E+22	7,361703E+22	5,198047E+22	5,198033E+22	1,472322E+23	1,039608E+23	2,511930E+23
-32	7,361655E+22	7,361420E+22	5,198028E+22	5,198010E+22	1,472308E+23	1,039604E+23	2,511911E+23
-31	7,361386E+22	7,361424E+22	5,198029E+22	5,197912E+22	1,472281E+23	1,039594E+23	2,511875E+23
-30	7,361657E+22	7,361713E+22	5,197879E+22	5,197999E+22	1,472337E+23	1,039588E+23	2,511925E+23
-29	7,361569E+22	7,361430E+22	5,197822E+22	5,197861E+22	1,472300E+23	1,039568E+23	2,511868E+23
-28	7,361427E+22	7,361623E+22	5,197820E+22	5,197773E+22	1,472305E+23	1,039559E+23	2,511864E+23
-27	7,361735E+22	7,361693E+22	5,197760E+22	5,197784E+22	1,472343E+23	1,039554E+23	2,511897E+23
-26	7,361508E+22	7,361446E+22	5,197778E+22	5,197638E+22	1,472295E+23	1,039542E+23	2,511837E+23
-25	7,361524E+22	7,361724E+22	5,197780E+22	5,197701E+22	1,472325E+23	1,039548E+23	2,511873E+23
-24	7,361689E+22	7,361569E+22	5,197734E+22	5,197780E+22	1,472326E+23	1,039551E+23	2,511877E+23
-23	7,361364E+22	7,361475E+22	5,197797E+22	5,197730E+22	1,472284E+23	1,039553E+23	2,511837E+23
-22	7,361573E+22	7,361737E+22	5,197787E+22	5,197877E+22	1,472331E+23	1,039566E+23	2,511897E+23
-21	7,361640E+22	7,361401E+22	5,197816E+22	5,197850E+22	1,472304E+23	1,039567E+23	2,511871E+23
-20	7,361435E+22	7,361499E+22	5,197938E+22	5,197849E+22	1,472293E+23	1,039579E+23	2,511872E+23
-19	7,361708E+22	7,361673E+22	5,197959E+22	5,198034E+22	1,472338E+23	1,039599E+23	2,511937E+23
-18	7,361492E+22	7,361423E+22	5,198024E+22	5,198003E+22	1,472292E+23	1,039603E+23	2,511894E+23
-17	7,361361E+22	7,361670E+22	5,198131E+22	5,198085E+22	1,472303E+23	1,039622E+23	2,511925E+23
-16	7,361612E+22	7,361541E+22	5,198126E+22	5,198194E+22	1,472315E+23	1,039632E+23	2,511947E+23
-15	7,361345E+22	7,361326E+22	5,198217E+22	5,198076E+22	1,472267E+23	1,039629E+23	2,511896E+23
-14	7,361472E+22	7,361610E+22	5,198194E+22	5,198168E+22	1,472308E+23	1,039636E+23	2,511944E+23
-13	7,361621E+22	7,361370E+22	5,198095E+22	5,198148E+22	1,472299E+23	1,039624E+23	2,511923E+23
-12	7,361334E+22	7,361445E+22	5,198090E+22	5,198046E+22	1,472278E+23	1,039614E+23	2,511891E+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							
-11	7,361571E+22	7,361680E+22	5,198013E+22	5,198123E+22	1,472325E+23	1,039614E+23	2,511939E+23
-10	7,361515E+22	7,361414E+22	5,197963E+22	5,197934E+22	1,472293E+23	1,039590E+23	2,511883E+23
-9	7,361374E+22	7,361594E+22	5,197999E+22	5,197849E+22	1,472297E+23	1,039585E+23	2,511882E+23
-8	7,361690E+22	7,361572E+22	5,197910E+22	5,197929E+22	1,472326E+23	1,039584E+23	2,511910E+23
-7	7,361448E+22	7,361364E+22	5,197923E+22	5,197801E+22	1,472281E+23	1,039572E+23	2,511854E+23
-6	7,361399E+22	7,361680E+22	5,197914E+22	5,197903E+22	1,472308E+23	1,039582E+23	2,511890E+23
-5	7,361612E+22	7,361491E+22	5,197829E+22	5,197956E+22	1,472310E+23	1,039579E+23	2,511889E+23
-4	7,361355E+22	7,361411E+22	5,197906E+22	5,197866E+22	1,472277E+23	1,039577E+23	2,511854E+23
-3	7,361557E+22	7,361626E+22	5,197963E+22	5,198010E+22	1,472318E+23	1,039597E+23	2,511915E+23
-2	7,361622E+22	7,361383E+22	5,197975E+22	5,197972E+22	1,472301E+23	1,039595E+23	2,511895E+23
-1	7,361355E+22	7,361524E+22	5,198115E+22	5,197996E+22	1,472288E+23	1,039611E+23	2,511899E+23
1	7,361587E+22	7,361615E+22	5,198123E+22	5,198232E+22	1,472320E+23	1,039635E+23	2,511956E+23
2	7,361398E+22	7,361349E+22	5,198218E+22	5,198163E+22	1,472275E+23	1,039638E+23	2,511913E+23
3	7,361260E+22	7,361575E+22	5,198329E+22	5,198245E+22	1,472283E+23	1,039657E+23	2,511941E+23
4	7,361580E+22	7,361412E+22	5,198261E+22	5,198339E+22	1,472299E+23	1,039660E+23	2,511959E+23
5	7,361347E+22	7,361249E+22	5,198317E+22	5,198223E+22	1,472260E+23	1,039654E+23	2,511914E+23
6	7,361410E+22	7,361544E+22	5,198317E+22	5,198339E+22	1,472295E+23	1,039666E+23	2,511961E+23
7	7,361547E+22	7,361390E+22	5,198183E+22	5,198277E+22	1,472294E+23	1,039646E+23	2,511940E+23
8	7,361258E+22	7,361455E+22	5,198223E+22	5,198139E+22	1,472271E+23	1,039636E+23	2,511908E+23
9	7,361527E+22	7,361577E+22	5,198155E+22	5,198221E+22	1,472310E+23	1,039638E+23	2,511948E+23
10	7,361503E+22	7,361314E+22	5,198128E+22	5,198009E+22	1,472282E+23	1,039614E+23	2,511895E+23
11	7,361295E+22	7,361537E+22	5,198161E+22	5,197985E+22	1,472283E+23	1,039615E+23	2,511898E+23
12	7,361601E+22	7,361525E+22	5,198001E+22	5,198101E+22	1,472313E+23	1,039610E+23	2,511923E+23
13	7,361365E+22	7,361344E+22	5,198010E+22	5,197982E+22	1,472271E+23	1,039599E+23	2,511870E+23
14	7,361317E+22	7,361596E+22	5,198070E+22	5,198078E+22	1,472291E+23	1,039615E+23	2,511906E+23
15	7,361583E+22	7,361437E+22	5,197971E+22	5,198070E+22	1,472302E+23	1,039604E+23	2,511906E+23
16	7,361341E+22	7,361368E+22	5,198085E+22	5,197973E+22	1,472271E+23	1,039606E+23	2,511877E+23
17	7,361532E+22	7,361528E+22	5,198124E+22	5,198170E+22	1,472306E+23	1,039629E+23	2,511935E+23
18	7,361556E+22	7,361337E+22	5,198145E+22	5,198136E+22	1,472289E+23	1,039628E+23	2,511918E+23
19	7,361214E+22	7,361504E+22	5,198298E+22	5,198195E+22	1,472272E+23	1,039649E+23	2,511921E+23
20	7,361485E+22	7,361527E+22	5,198266E+22	5,198404E+22	1,472301E+23	1,039667E+23	2,511968E+23
21	7,361363E+22	7,361253E+22	5,198366E+22	5,198308E+22	1,472262E+23	1,039667E+23	2,511929E+23
22	7,361224E+22	7,361435E+22	5,198509E+22	5,198398E+22	1,472266E+23	1,039691E+23	2,511957E+23
23	7,361542E+22	7,361372E+22	5,198385E+22	5,198471E+22	1,472291E+23	1,039686E+23	2,511977E+23
24	7,361285E+22	7,361272E+22	5,198441E+22	5,198361E+22	1,472256E+23	1,039680E+23	2,511936E+23
25	7,361333E+22	7,361492E+22	5,198429E+22	5,198495E+22	1,472283E+23	1,039692E+23	2,511975E+23
26	7,361495E+22	7,361347E+22	5,198334E+22	5,198374E+22	1,472284E+23	1,039671E+23	2,511955E+23
27	7,361189E+22	7,361406E+22	5,198396E+22	5,198240E+22	1,472259E+23	1,039664E+23	2,511923E+23
28	7,361482E+22	7,361484E+22	5,198282E+22	5,198330E+22	1,472297E+23	1,039661E+23	2,511958E+23
29	7,361470E+22	7,361261E+22	5,198238E+22	5,198155E+22	1,472273E+23	1,039639E+23	2,511912E+23
30	7,361192E+22	7,361457E+22	5,198291E+22	5,198179E+22	1,472265E+23	1,039647E+23	2,511912E+23
31	7,361496E+22	7,361506E+22	5,198098E+22	5,198260E+22	1,472300E+23	1,039636E+23	2,511936E+23
32	7,361318E+22	7,361299E+22	5,198138E+22	5,198101E+22	1,472262E+23	1,039624E+23	2,511885E+23
33	7,361307E+22	7,361449E+22	5,198206E+22	5,198197E+22	1,472276E+23	1,039640E+23	2,511916E+23
34	7,361602E+22	7,361347E+22	5,198136E+22	5,198160E+22	1,472295E+23	1,039630E+23	2,511924E+23
35	7,361283E+22	7,361342E+22	5,198263E+22	5,198115E+22	1,472262E+23	1,039638E+23	2,511900E+23
36	7,361430E+22	7,361508E+22	5,198259E+22	5,198344E+22	1,472294E+23	1,039660E+23	2,511954E+23
37	7,361459E+22	7,361329E+22	5,198294E+22	5,198320E+22	1,472279E+23	1,039661E+23	2,511940E+23
38	7,361096E+22	7,361410E+22	5,198508E+22	5,198389E+22	1,472251E+23	1,039690E+23	2,511940E+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	7,361408E+22	7,361459E+22	5,198442E+22	5,198550E+22	1,472287E+23	1,039699E+23	2,511986E+23
40	7,361337E+22	7,361178E+22	5,198544E+22	5,198455E+22	1,472251E+23	1,039700E+23	2,511951E+23
41	7,361192E+22	7,361315E+22	5,198646E+22	5,198587E+22	1,472251E+23	1,039723E+23	2,511974E+23
42	7,361496E+22	7,361331E+22	5,198511E+22	5,198630E+22	1,472283E+23	1,039714E+23	2,511997E+23
43	7,361189E+22	7,361267E+22	5,198576E+22	5,198513E+22	1,472246E+23	1,039709E+23	2,511955E+23
44	7,361279E+22	7,361428E+22	5,198536E+22	5,198600E+22	1,472271E+23	1,039714E+23	2,511984E+23
45	7,361484E+22	7,361286E+22	5,198457E+22	5,198454E+22	1,472277E+23	1,039691E+23	2,511968E+23
46	7,361144E+22	7,361309E+22	5,198563E+22	5,198361E+22	1,472245E+23	1,039692E+23	2,511938E+23
47	7,361398E+22	7,361462E+22	5,198393E+22	5,198445E+22	1,472286E+23	1,039684E+23	2,511970E+23
48	7,361373E+22	7,361259E+22	5,198357E+22	5,198303E+22	1,472263E+23	1,039666E+23	2,511929E+23
49	7,361106E+22	7,361360E+22	5,198401E+22	5,198350E+22	1,472247E+23	1,039675E+23	2,511922E+23
50	7,361463E+22	7,361410E+22	5,198241E+22	5,198371E+22	1,472287E+23	1,039661E+23	2,511949E+23
51	7,361290E+22	7,361231E+22	5,198302E+22	5,198211E+22	1,472252E+23	1,039651E+23	2,511903E+23
52	7,361305E+22	7,361360E+22	5,198329E+22	5,198314E+22	1,472266E+23	1,039664E+23	2,511931E+23
53	7,361575E+22	7,361328E+22	5,198264E+22	5,198311E+22	1,472290E+23	1,039658E+23	2,511948E+23
54	7,361164E+22	7,361312E+22	5,198437E+22	5,198327E+22	1,472248E+23	1,039676E+23	2,511924E+23
55	7,361281E+22	7,361505E+22	5,198417E+22	5,198517E+22	1,472279E+23	1,039693E+23	2,511972E+23
56	7,361375E+22	7,361274E+22	5,198489E+22	5,198480E+22	1,472265E+23	1,039697E+23	2,511962E+23
57	7,361058E+22	7,361235E+22	5,198688E+22	5,198560E+22	1,472229E+23	1,039725E+23	2,511954E+23
58	7,361405E+22	7,361336E+22	5,198617E+22	5,198691E+22	1,472274E+23	1,039731E+23	2,512005E+23
59	7,361287E+22	7,361140E+22	5,198693E+22	5,198623E+22	1,472243E+23	1,039732E+23	2,511974E+23
60	7,361128E+22	7,361283E+22	5,198735E+22	5,198752E+22	1,472241E+23	1,039749E+23	2,511990E+23
61	7,361450E+22	7,361333E+22	5,198623E+22	5,198764E+22	1,472278E+23	1,039739E+23	2,512017E+23
62	7,361118E+22	7,361202E+22	5,198749E+22	5,198639E+22	1,472232E+23	1,039739E+23	2,511971E+23
63	7,361207E+22	7,361393E+22	5,198687E+22	5,198674E+22	1,472260E+23	1,039736E+23	2,511996E+23
64	7,361449E+22	7,361238E+22	5,198612E+22	5,198558E+22	1,472269E+23	1,039717E+23	2,511986E+23
65	7,361067E+22	7,361186E+22	5,198683E+22	5,198531E+22	1,472225E+23	1,039721E+23	2,511947E+23
66	7,361313E+22	7,361401E+22	5,198504E+22	5,198602E+22	1,472271E+23	1,039711E+23	2,511982E+23
67	7,361283E+22	7,361209E+22	5,198475E+22	5,198453E+22	1,472249E+23	1,039693E+23	2,511942E+23
68	7,361085E+22	7,361252E+22	5,198488E+22	5,198461E+22	1,472234E+23	1,039695E+23	2,511929E+23
69	7,361493E+22	7,361340E+22	5,198353E+22	5,198455E+22	1,472283E+23	1,039681E+23	2,511964E+23
70	7,361264E+22	7,361167E+22	5,198464E+22	5,198342E+22	1,472243E+23	1,039681E+23	2,511924E+23
71	7,361209E+22	7,361392E+22	5,198465E+22	5,198441E+22	1,472260E+23	1,039691E+23	2,511951E+23
72	7,361465E+22	7,361361E+22	5,198432E+22	5,198484E+22	1,472283E+23	1,039692E+23	2,511974E+23
73	7,361044E+22	7,361217E+22	5,198624E+22	5,198535E+22	1,472226E+23	1,039716E+23	2,511942E+23
74	7,361209E+22	7,361398E+22	5,198624E+22	5,198676E+22	1,472261E+23	1,039730E+23	2,511991E+23
75	7,361322E+22	7,361169E+22	5,198696E+22	5,198648E+22	1,472249E+23	1,039734E+23	2,511984E+23
76	7,361058E+22	7,361102E+22	5,198817E+22	5,198732E+22	1,472216E+23	1,039755E+23	2,511971E+23
77	7,361395E+22	7,361284E+22	5,198727E+22	5,198862E+22	1,472268E+23	1,039759E+23	2,512027E+23
78	7,361207E+22	7,361117E+22	5,198829E+22	5,198815E+22	1,472232E+23	1,039764E+23	2,511997E+23
79	7,361036E+22	7,361292E+22	5,198850E+22	5,198859E+22	1,472233E+23	1,039771E+23	2,512004E+23
80	7,361401E+22	7,361304E+22	5,198784E+22	5,198851E+22	1,472270E+23	1,039763E+23	2,512034E+23
81	7,361075E+22	7,361076E+22	5,198913E+22	5,198752E+22	1,472215E+23	1,039766E+23	2,511982E+23
82	7,361157E+22	7,361304E+22	5,198845E+22	5,198777E+22	1,472246E+23	1,039762E+23	2,512008E+23
83	7,361343E+22	7,361207E+22	5,198751E+22	5,198712E+22	1,472255E+23	1,039746E+23	2,512001E+23
84	7,360986E+22	7,361116E+22	5,198750E+22	5,198695E+22	1,472210E+23	1,039745E+23	2,511955E+23
85	7,361272E+22	7,361346E+22	5,198593E+22	5,198731E+22	1,472262E+23	1,039732E+23	2,511994E+23
86	7,361243E+22	7,361135E+22	5,198612E+22	5,198583E+22	1,472238E+23	1,039720E+23	2,511957E+23
87	7,361056E+22	7,361223E+22	5,198607E+22	5,198536E+22	1,472228E+23	1,039714E+23	2,511942E+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							
88	7,361480E+22	7,361327E+22	5,198505E+22	5,198570E+22	1,472281E+23	1,039708E+23	2,511988E+23
89	7,361183E+22	7,361102E+22	5,198616E+22	5,198530E+22	1,472229E+23	1,039715E+23	2,511943E+23
90	7,361093E+22	7,361360E+22	5,198636E+22	5,198616E+22	1,472245E+23	1,039725E+23	2,511970E+23
91	7,361346E+22	7,361307E+22	5,198625E+22	5,198664E+22	1,472265E+23	1,039729E+23	2,511994E+23
92	7,361003E+22	7,361065E+22	5,198773E+22	5,198697E+22	1,472207E+23	1,039747E+23	2,511954E+23
93	7,361228E+22	7,361276E+22	5,198778E+22	5,198816E+22	1,472250E+23	1,039759E+23	2,512010E+23
94	7,361296E+22	7,361075E+22	5,198855E+22	5,198826E+22	1,472237E+23	1,039768E+23	2,512005E+23
95	7,360978E+22	7,361117E+22	5,198926E+22	5,198878E+22	1,472209E+23	1,039780E+23	2,511990E+23
96	7,361325E+22	7,361317E+22	5,198865E+22	5,199015E+22	1,472264E+23	1,039788E+23	2,512052E+23
97	7,361113E+22	7,361048E+22	5,198995E+22	5,198971E+22	1,472216E+23	1,039797E+23	2,512013E+23
98	7,360970E+22	7,361231E+22	5,199042E+22	5,198958E+22	1,472220E+23	1,039800E+23	2,512020E+23
99	7,361335E+22	7,361235E+22	5,198978E+22	5,198967E+22	1,472257E+23	1,039794E+23	2,512051E+23
100	7,361031E+22	7,360957E+22	5,199030E+22	5,198905E+22	1,472199E+23	1,039793E+23	2,511992E+23
101	7,361097E+22	7,361246E+22	5,198937E+22	5,198940E+22	1,472234E+23	1,039788E+23	2,512022E+23
102	7,361235E+22	7,361154E+22	5,198855E+22	5,198902E+22	1,472239E+23	1,039776E+23	2,512015E+23
103	7,360912E+22	7,361089E+22	5,198827E+22	5,198799E+22	1,472200E+23	1,039763E+23	2,511963E+23
104	7,361279E+22	7,361295E+22	5,198713E+22	5,198812E+22	1,472257E+23	1,039752E+23	2,512010E+23
105	7,361240E+22	7,361030E+22	5,198752E+22	5,198686E+22	1,472227E+23	1,039744E+23	2,511971E+23
106	7,361029E+22	7,361188E+22	5,198762E+22	5,198630E+22	1,472222E+23	1,039739E+23	2,511961E+23
107	7,361368E+22	7,361341E+22	5,198677E+22	5,198721E+22	1,472271E+23	1,039740E+23	2,512011E+23
108	7,361085E+22	7,361047E+22	5,198751E+22	5,198717E+22	1,472213E+23	1,039747E+23	2,511960E+23
109	7,361019E+22	7,361276E+22	5,198801E+22	5,198779E+22	1,472230E+23	1,039758E+23	2,511987E+23
110	7,361269E+22	7,361198E+22	5,198820E+22	5,198850E+22	1,472247E+23	1,039767E+23	2,512014E+23
111	7,360968E+22	7,360984E+22	5,198911E+22	5,198830E+22	1,472195E+23	1,039774E+23	2,511969E+23
112	7,361216E+22	7,361217E+22	5,198923E+22	5,198981E+22	1,472243E+23	1,039790E+23	2,512034E+23
113	7,361221E+22	7,361019E+22	5,198989E+22	5,199033E+22	1,472224E+23	1,039802E+23	2,512026E+23
114	7,360893E+22	7,361103E+22	5,199076E+22	5,199031E+22	1,472200E+23	1,039811E+23	2,512010E+23
115	7,361228E+22	7,361289E+22	5,199058E+22	5,199147E+22	1,472252E+23	1,039821E+23	2,512072E+23
116	7,361079E+22	7,360934E+22	5,199146E+22	5,199091E+22	1,472201E+23	1,039824E+23	2,512025E+23
117	7,360951E+22	7,361131E+22	5,199198E+22	5,199066E+22	1,472208E+23	1,039826E+23	2,512035E+23
118	7,361248E+22	7,361167E+22	5,199125E+22	5,199136E+22	1,472242E+23	1,039826E+23	2,512068E+23
119	7,360923E+22	7,360949E+22	5,199110E+22	5,199046E+22	1,472187E+23	1,039816E+23	2,512003E+23
120	7,361035E+22	7,361226E+22	5,199039E+22	5,199089E+22	1,472226E+23	1,039813E+23	2,512039E+23
121	7,361176E+22	7,361061E+22	5,198978E+22	5,199042E+22	1,472224E+23	1,039802E+23	2,512026E+23
122	7,360901E+22	7,361025E+22	5,198970E+22	5,198871E+22	1,472193E+23	1,039784E+23	2,511977E+23
123	7,361262E+22	7,361248E+22	5,198881E+22	5,198899E+22	1,472251E+23	1,039778E+23	2,512029E+23
124	7,361214E+22	7,360953E+22	5,198867E+22	5,198824E+22	1,472217E+23	1,039769E+23	2,511986E+23
125	7,360958E+22	7,361165E+22	5,198890E+22	5,198790E+22	1,472212E+23	1,039768E+23	2,511980E+23
126	7,361228E+22	7,361299E+22	5,198831E+22	5,198918E+22	1,472253E+23	1,039775E+23	2,512028E+23
127	7,360975E+22	7,360988E+22	5,198886E+22	5,198856E+22	1,472196E+23	1,039774E+23	2,511970E+23
128	7,361002E+22	7,361181E+22	5,198962E+22	5,198921E+22	1,472218E+23	1,039788E+23	2,512007E+23
129	7,361235E+22	7,361057E+22	5,198982E+22	5,199021E+22	1,472229E+23	1,039800E+23	2,512030E+23
130	7,360932E+22	7,360940E+22	5,199063E+22	5,198978E+22	1,472187E+23	1,039804E+23	2,511991E+23
131	7,361129E+22	7,361225E+22	5,199087E+22	5,199151E+22	1,472235E+23	1,039824E+23	2,512059E+23
132	7,361147E+22	7,360973E+22	5,199126E+22	5,199207E+22	1,472212E+23	1,039833E+23	2,512045E+23
133	7,360842E+22	7,361051E+22	5,199255E+22	5,199162E+22	1,472189E+23	1,039842E+23	2,512031E+23
134	7,361143E+22	7,361211E+22	5,199263E+22	5,199297E+22	1,472235E+23	1,039856E+23	2,512091E+23
135	7,361016E+22	7,360870E+22	5,199298E+22	5,199212E+22	1,472189E+23	1,039851E+23	2,512040E+23
136	7,360907E+22	7,361071E+22	5,199332E+22	5,199233E+22	1,472198E+23	1,039857E+23	2,512054E+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							
137	7,361139E+22	7,361090E+22	5,199237E+22	5,199340E+22	1,472223E+23	1,039858E+23	2,512081E+23
138	7,360855E+22	7,360905E+22	5,199214E+22	5,199180E+22	1,472176E+23	1,039839E+23	2,512015E+23
139	7,360991E+22	7,361165E+22	5,199180E+22	5,199186E+22	1,472216E+23	1,039837E+23	2,512052E+23
140	7,361199E+22	7,360954E+22	5,199083E+22	5,199126E+22	1,472215E+23	1,039821E+23	2,512036E+23
141	7,360923E+22	7,360955E+22	5,199096E+22	5,198942E+22	1,472188E+23	1,039804E+23	2,511992E+23
142	7,361166E+22	7,361234E+22	5,199026E+22	5,199041E+22	1,472240E+23	1,039807E+23	2,512047E+23
143	7,361087E+22	7,360978E+22	5,198971E+22	5,198959E+22	1,472207E+23	1,039793E+23	2,511999E+23
144	7,360857E+22	7,361133E+22	5,199034E+22	5,198958E+22	1,472199E+23	1,039799E+23	2,511998E+23
145	7,361116E+22	7,361189E+22	5,199005E+22	5,199101E+22	1,472230E+23	1,039811E+23	2,512041E+23
146	7,360941E+22	7,360885E+22	5,199058E+22	5,198989E+22	1,472183E+23	1,039805E+23	2,511987E+23
147	7,360979E+22	7,361086E+22	5,199149E+22	5,199071E+22	1,472207E+23	1,039822E+23	2,512028E+23
148	7,361215E+22	7,360965E+22	5,199101E+22	5,199209E+22	1,472218E+23	1,039831E+23	2,512049E+23
149	7,360884E+22	7,360911E+22	5,199196E+22	5,199151E+22	1,472179E+23	1,039835E+23	2,512014E+23
150	7,361015E+22	7,361202E+22	5,199258E+22	5,199334E+22	1,472222E+23	1,039859E+23	2,512081E+23
151	7,361068E+22	7,360935E+22	5,199283E+22	5,199318E+22	1,472200E+23	1,039860E+23	2,512060E+23
152	7,360825E+22	7,360975E+22	5,199438E+22	5,199289E+22	1,472180E+23	1,039873E+23	2,512053E+23
153	7,361068E+22	7,361100E+22	5,199441E+22	5,199461E+22	1,472217E+23	1,039890E+23	2,512107E+23
154	7,360937E+22	7,360828E+22	5,199443E+22	5,199365E+22	1,472177E+23	1,039881E+23	2,512057E+23
155	7,360812E+22	7,361043E+22	5,199476E+22	5,199399E+22	1,472185E+23	1,039888E+23	2,512073E+23
156	7,361082E+22	7,360997E+22	5,199334E+22	5,199495E+22	1,472208E+23	1,039883E+23	2,512091E+23
157	7,360851E+22	7,360834E+22	5,199338E+22	5,199273E+22	1,472168E+23	1,039861E+23	2,512030E+23
158	7,360961E+22	7,361100E+22	5,199318E+22	5,199285E+22	1,472206E+23	1,039860E+23	2,512066E+23
159	7,361158E+22	7,360923E+22	5,199186E+22	5,199201E+22	1,472208E+23	1,039839E+23	2,512047E+23
160	7,360876E+22	7,360950E+22	5,199211E+22	5,199086E+22	1,472183E+23	1,039830E+23	2,512012E+23
161	7,361013E+22	7,361191E+22	5,199158E+22	5,199229E+22	1,472220E+23	1,039839E+23	2,512059E+23
162	7,360977E+22	7,360932E+22	5,199120E+22	5,199105E+22	1,472191E+23	1,039823E+23	2,512013E+23
163	7,360797E+22	7,361030E+22	5,199218E+22	5,199090E+22	1,472183E+23	1,039831E+23	2,512013E+23
164	7,361117E+22	7,361027E+22	5,199141E+22	5,199243E+22	1,472214E+23	1,039838E+23	2,512053E+23
165	7,360963E+22	7,360789E+22	5,199198E+22	5,199119E+22	1,472175E+23	1,039832E+23	2,512007E+23
166	7,360908E+22	7,361062E+22	5,199291E+22	5,199253E+22	1,472197E+23	1,039854E+23	2,512051E+23
167	7,361121E+22	7,360989E+22	5,199222E+22	5,199360E+22	1,472211E+23	1,039858E+23	2,512069E+23
168	7,360826E+22	7,360902E+22	5,199366E+22	5,199316E+22	1,472173E+23	1,039868E+23	2,512041E+23
169	7,360905E+22	7,361125E+22	5,199472E+22	5,199499E+22	1,472203E+23	1,039897E+23	2,512100E+23
170	7,361017E+22	7,360863E+22	5,199490E+22	5,199450E+22	1,472188E+23	1,039894E+23	2,512082E+23
171	7,360767E+22	7,360883E+22	5,199643E+22	5,199451E+22	1,472165E+23	1,039909E+23	2,512074E+23
172	7,361001E+22	7,361000E+22	5,199557E+22	5,199666E+22	1,472200E+23	1,039922E+23	2,512122E+23
173	7,360882E+22	7,360762E+22	5,199544E+22	5,199535E+22	1,472164E+23	1,039908E+23	2,512072E+23
174	7,360723E+22	7,360981E+22	5,199591E+22	5,199555E+22	1,472170E+23	1,039915E+23	2,512085E+23
175	7,361055E+22	7,360943E+22	5,199423E+22	5,199561E+22	1,472200E+23	1,039898E+23	2,512098E+23
176	7,360879E+22	7,360775E+22	5,199450E+22	5,199347E+22	1,472165E+23	1,039880E+23	2,512045E+23
177	7,360892E+22	7,361047E+22	5,199454E+22	5,199396E+22	1,472194E+23	1,039885E+23	2,512079E+23
178	7,361070E+22	7,360936E+22	5,199312E+22	5,199313E+22	1,472201E+23	1,039863E+23	2,512063E+23
179	7,360760E+22	7,360933E+22	5,199374E+22	5,199234E+22	1,472169E+23	1,039861E+23	2,512030E+23
180	7,360920E+22	7,361087E+22	5,199291E+22	5,199392E+22	1,472201E+23	1,039868E+23	2,512069E+23
181	7,360950E+22	7,360815E+22	5,199280E+22	5,199235E+22	1,472176E+23	1,039852E+23	2,512028E+23
182	7,360764E+22	7,360920E+22	5,199378E+22	5,199245E+22	1,472168E+23	1,039862E+23	2,512031E+23
183	7,361099E+22	7,360957E+22	5,199254E+22	5,199375E+22	1,472206E+23	1,039863E+23	2,512069E+23
184	7,360944E+22	7,360780E+22	5,199312E+22	5,199301E+22	1,472172E+23	1,039861E+23	2,512034E+23
185	7,360787E+22	7,361043E+22	5,199439E+22	5,199449E+22	1,472183E+23	1,039889E+23	2,512072E+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	7,361031E+22	7,360976E+22	5,199403E+22	5,199500E+22	1,472201E+23	1,039890E+23	2,512091E+23
187	7,360773E+22	7,360832E+22	5,199599E+22	5,199451E+22	1,472160E+23	1,039905E+23	2,512065E+23
188	7,360862E+22	7,360982E+22	5,199651E+22	5,199656E+22	1,472184E+23	1,039931E+23	2,512115E+23
189	7,360980E+22	7,360767E+22	5,199660E+22	5,199611E+22	1,472175E+23	1,039927E+23	2,512102E+23
190	7,360663E+22	7,360832E+22	5,199775E+22	5,199653E+22	1,472149E+23	1,039943E+23	2,512092E+23
191	7,360902E+22	7,360959E+22	5,199644E+22	5,199814E+22	1,472186E+23	1,039946E+23	2,512132E+23
192	7,360858E+22	7,360727E+22	5,199650E+22	5,199671E+22	1,472159E+23	1,039932E+23	2,512091E+23
193	7,360668E+22	7,360905E+22	5,199731E+22	5,199665E+22	1,472157E+23	1,039940E+23	2,512097E+23
194	7,361042E+22	7,360904E+22	5,199571E+22	5,199627E+22	1,472195E+23	1,039920E+23	2,512114E+23
195	7,360845E+22	7,360740E+22	5,199616E+22	5,199451E+22	1,472158E+23	1,039907E+23	2,512065E+23
196	7,360796E+22	7,360988E+22	5,199562E+22	5,199554E+22	1,472178E+23	1,039912E+23	2,512090E+23
197	7,360980E+22	7,360885E+22	5,199439E+22	5,199463E+22	1,472186E+23	1,039890E+23	2,512077E+23
198	7,360658E+22	7,360845E+22	5,199516E+22	5,199394E+22	1,472150E+23	1,039891E+23	2,512041E+23
199	7,360885E+22	7,360978E+22	5,199407E+22	5,199493E+22	1,472186E+23	1,039890E+23	2,512076E+23
200	7,360985E+22	7,360730E+22	5,199395E+22	5,199365E+22	1,472171E+23	1,039876E+23	2,512048E+23
201	7,360705E+22	7,360864E+22	5,199511E+22	5,199409E+22	1,472157E+23	1,039892E+23	2,512049E+23
202	7,361030E+22	7,360983E+22	5,199388E+22	5,199522E+22	1,472201E+23	1,039891E+23	2,512092E+23
203	7,360855E+22	7,360783E+22	5,199502E+22	5,199461E+22	1,472164E+23	1,039896E+23	2,512060E+23
204	7,360699E+22	7,360969E+22	5,199620E+22	5,199615E+22	1,472167E+23	1,039924E+23	2,512090E+23
205	7,360995E+22	7,360876E+22	5,199611E+22	5,199637E+22	1,472187E+23	1,039925E+23	2,512112E+23
206	7,360700E+22	7,360720E+22	5,199802E+22	5,199632E+22	1,472142E+23	1,039943E+23	2,512085E+23
207	7,360792E+22	7,360896E+22	5,199784E+22	5,199823E+22	1,472169E+23	1,039961E+23	2,512129E+23
208	7,360925E+22	7,360722E+22	5,199761E+22	5,199819E+22	1,472165E+23	1,039958E+23	2,512123E+23
209	7,360548E+22	7,360772E+22	5,199893E+22	5,199845E+22	1,472132E+23	1,039974E+23	2,512106E+23
210	7,360862E+22	7,360913E+22	5,199774E+22	5,199913E+22	1,472178E+23	1,039969E+23	2,512146E+23
211	7,360860E+22	7,360664E+22	5,199819E+22	5,199742E+22	1,472152E+23	1,039956E+23	2,512109E+23
212	7,360659E+22	7,360814E+22	5,199859E+22	5,199754E+22	1,472147E+23	1,039961E+23	2,512109E+23
213	7,361006E+22	7,360865E+22	5,199709E+22	5,199729E+22	1,472187E+23	1,039944E+23	2,512131E+23
214	7,360716E+22	7,360732E+22	5,199750E+22	5,199618E+22	1,472145E+23	1,039937E+23	2,512082E+23
215	7,360671E+22	7,360947E+22	5,199667E+22	5,199691E+22	1,472162E+23	1,039936E+23	2,512098E+23
216	7,360927E+22	7,360825E+22	5,199560E+22	5,199617E+22	1,472175E+23	1,039918E+23	2,512093E+23
217	7,360596E+22	7,360739E+22	5,199658E+22	5,199543E+22	1,472134E+23	1,039920E+23	2,512054E+23
218	7,360879E+22	7,360906E+22	5,199547E+22	5,199607E+22	1,472178E+23	1,039915E+23	2,512094E+23
219	7,360971E+22	7,360700E+22	5,199549E+22	5,199514E+22	1,472167E+23	1,039906E+23	2,512073E+23
220	7,360634E+22	7,360818E+22	5,199618E+22	5,199588E+22	1,472145E+23	1,039921E+23	2,512066E+23
221	7,360956E+22	7,360947E+22	5,199548E+22	5,199675E+22	1,472190E+23	1,039922E+23	2,512113E+23
222	7,360765E+22	7,360719E+22	5,199693E+22	5,199620E+22	1,472148E+23	1,039931E+23	2,512080E+23
223	7,360640E+22	7,360857E+22	5,199790E+22	5,199731E+22	1,472150E+23	1,039952E+23	2,512102E+23
224	7,360975E+22	7,360795E+22	5,199771E+22	5,199802E+22	1,472177E+23	1,039957E+23	2,512134E+23
225	7,360598E+22	7,360646E+22	5,199956E+22	5,199833E+22	1,472124E+23	1,039979E+23	2,512103E+23
226	7,360700E+22	7,360874E+22	5,199921E+22	5,199992E+22	1,472157E+23	1,039991E+23	2,512149E+23
227	7,360858E+22	7,360694E+22	5,199925E+22	5,199976E+22	1,472155E+23	1,039990E+23	2,512145E+23
228	7,360501E+22	7,360684E+22	5,200028E+22	5,199981E+22	1,472118E+23	1,040001E+23	2,512119E+23
229	7,360867E+22	7,360832E+22	5,199942E+22	5,200004E+22	1,472170E+23	1,039995E+23	2,512164E+23
230	7,360816E+22	7,360606E+22	5,199982E+22	5,199866E+22	1,472142E+23	1,039985E+23	2,512127E+23
231	7,360584E+22	7,360774E+22	5,199967E+22	5,199875E+22	1,472136E+23	1,039984E+23	2,512120E+23
232	7,360918E+22	7,360861E+22	5,199798E+22	5,199901E+22	1,472178E+23	1,039970E+23	2,512148E+23
233	7,360571E+22	7,360673E+22	5,199874E+22	5,199797E+22	1,472124E+23	1,039967E+23	2,512092E+23
234	7,360612E+22	7,360869E+22	5,199803E+22	5,199800E+22	1,472148E+23	1,039960E+23	2,512109E+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							
235	7,360926E+22	7,360723E+22	5,199718E+22	5,199719E+22	1,472165E+23	1,039944E+23	2,512109E+23
236	7,360594E+22	7,360631E+22	5,199765E+22	5,199670E+22	1,472122E+23	1,039944E+23	2,512066E+23
237	7,360869E+22	7,360857E+22	5,199667E+22	5,199731E+22	1,472173E+23	1,039940E+23	2,512112E+23
238	7,360867E+22	7,360699E+22	5,199685E+22	5,199678E+22	1,472157E+23	1,039936E+23	2,512093E+23
239	7,360537E+22	7,360790E+22	5,199757E+22	5,199718E+22	1,472133E+23	1,039947E+23	2,512080E+23
240	7,360899E+22	7,360900E+22	5,199716E+22	5,199824E+22	1,472180E+23	1,039954E+23	2,512134E+23
241	7,360673E+22	7,360620E+22	5,199903E+22	5,199793E+22	1,472129E+23	1,039970E+23	2,512099E+23
242	7,360587E+22	7,360772E+22	5,199981E+22	5,199887E+22	1,472136E+23	1,039987E+23	2,512123E+23
243	7,360907E+22	7,360738E+22	5,199951E+22	5,200000E+22	1,472165E+23	1,039995E+23	2,512160E+23
244	7,360506E+22	7,360572E+22	5,200068E+22	5,200050E+22	1,472108E+23	1,040012E+23	2,512120E+23
245	7,360655E+22	7,360795E+22	5,200067E+22	5,200149E+22	1,472145E+23	1,040022E+23	2,512167E+23
246	7,360810E+22	7,360629E+22	5,200089E+22	5,200110E+22	1,472144E+23	1,040020E+23	2,512164E+23
247	7,360493E+22	7,360602E+22	5,200159E+22	5,200061E+22	1,472110E+23	1,040022E+23	2,512132E+23
248	7,360853E+22	7,360804E+22	5,200067E+22	5,200123E+22	1,472166E+23	1,040019E+23	2,512185E+23
249	7,360697E+22	7,360593E+22	5,200120E+22	5,200029E+22	1,472129E+23	1,040015E+23	2,512144E+23
250	7,360459E+22	7,360769E+22	5,200099E+22	5,200014E+22	1,472123E+23	1,040011E+23	2,512134E+23
251	7,360822E+22	7,360826E+22	5,199959E+22	5,200044E+22	1,472165E+23	1,040000E+23	2,512165E+23
252	7,360519E+22	7,360546E+22	5,199992E+22	5,199932E+22	1,472107E+23	1,039992E+23	2,512099E+23
253	7,360627E+22	7,360733E+22	5,199948E+22	5,199902E+22	1,472136E+23	1,039985E+23	2,512121E+23
254	7,360907E+22	7,360649E+22	5,199850E+22	5,199852E+22	1,472156E+23	1,039970E+23	2,512126E+23
255	7,360550E+22	7,360587E+22	5,199845E+22	5,199796E+22	1,472114E+23	1,039964E+23	2,512078E+23
256	7,360802E+22	7,360870E+22	5,199761E+22	5,199891E+22	1,472167E+23	1,039965E+23	2,512133E+23
257	7,360744E+22	7,360667E+22	5,199844E+22	5,199841E+22	1,472141E+23	1,039968E+23	2,512110E+23
258	7,360467E+22	7,360726E+22	5,199951E+22	5,199829E+22	1,472119E+23	1,039978E+23	2,512097E+23
259	7,360854E+22	7,360821E+22	5,199934E+22	5,199961E+22	1,472167E+23	1,039989E+23	2,512157E+23
260	7,360609E+22	7,360507E+22	5,200064E+22	5,199983E+22	1,472112E+23	1,040005E+23	2,512116E+23
261	7,360530E+22	7,360691E+22	5,200144E+22	5,200081E+22	1,472122E+23	1,040022E+23	2,512145E+23
262	7,360798E+22	7,360699E+22	5,200105E+22	5,200210E+22	1,472150E+23	1,040031E+23	2,512181E+23
263	7,360446E+22	7,360508E+22	5,200193E+22	5,200198E+22	1,472095E+23	1,040039E+23	2,512135E+23
264	7,360648E+22	7,360749E+22	5,200203E+22	5,200283E+22	1,472140E+23	1,040049E+23	2,512188E+23
265	7,360756E+22	7,360568E+22	5,200266E+22	5,200245E+22	1,472132E+23	1,040051E+23	2,512183E+23
266	7,360452E+22	7,360571E+22	5,200325E+22	5,200174E+22	1,472102E+23	1,040050E+23	2,512152E+23
267	7,360762E+22	7,360790E+22	5,200225E+22	5,200275E+22	1,472155E+23	1,040050E+23	2,512205E+23
268	7,360569E+22	7,360528E+22	5,200230E+22	5,200210E+22	1,472110E+23	1,040044E+23	2,512154E+23
269	7,360402E+22	7,360652E+22	5,200234E+22	5,200142E+22	1,472105E+23	1,040038E+23	2,512143E+23
270	7,360767E+22	7,360708E+22	5,200098E+22	5,200158E+22	1,472148E+23	1,040026E+23	2,512173E+23
271	7,360531E+22	7,360431E+22	5,200079E+22	5,200011E+22	1,472096E+23	1,040009E+23	2,512105E+23
272	7,360642E+22	7,360694E+22	5,200022E+22	5,200017E+22	1,472134E+23	1,040004E+23	2,512138E+23
273	7,360810E+22	7,360654E+22	5,199964E+22	5,200003E+22	1,472146E+23	1,039997E+23	2,512143E+23
274	7,360453E+22	7,360611E+22	5,199984E+22	5,199918E+22	1,472106E+23	1,039990E+23	2,512097E+23
275	7,360702E+22	7,360862E+22	5,199958E+22	5,200023E+22	1,472156E+23	1,039998E+23	2,512154E+23
276	7,360660E+22	7,360570E+22	5,200029E+22	5,200001E+22	1,472123E+23	1,040003E+23	2,512126E+23
277	7,360443E+22	7,360586E+22	5,200161E+22	5,199986E+22	1,472103E+23	1,040015E+23	2,512118E+23
278	7,360775E+22	7,360730E+22	5,200122E+22	5,200164E+22	1,472151E+23	1,040029E+23	2,512179E+23
279	7,360541E+22	7,360430E+22	5,200172E+22	5,200185E+22	1,472097E+23	1,040036E+23	2,512133E+23
280	7,360473E+22	7,360655E+22	5,200245E+22	5,200288E+22	1,472113E+23	1,040053E+23	2,512166E+23
281	7,360718E+22	7,360641E+22	5,200263E+22	5,200382E+22	1,472136E+23	1,040065E+23	2,512200E+23
282	7,360431E+22	7,360447E+22	5,200367E+22	5,200288E+22	1,472088E+23	1,040066E+23	2,512153E+23
283	7,360636E+22	7,360712E+22	5,200398E+22	5,200381E+22	1,472135E+23	1,040078E+23	2,512213E+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	7,360691E+22	7,360507E+22	5,200408E+22	5,200388E+22	1,472120E+23	1,040080E+23	2,512200E+23
285	7,360367E+22	7,360514E+22	5,200480E+22	5,200324E+22	1,472088E+23	1,040080E+23	2,512168E+23
286	7,360616E+22	7,360755E+22	5,200375E+22	5,200439E+22	1,472137E+23	1,040081E+23	2,512218E+23
287	7,360493E+22	7,360425E+22	5,200336E+22	5,200337E+22	1,472092E+23	1,040067E+23	2,512159E+23
288	7,360397E+22	7,360560E+22	5,200334E+22	5,200264E+22	1,472096E+23	1,040060E+23	2,512155E+23
289	7,360737E+22	7,360618E+22	5,200226E+22	5,200283E+22	1,472135E+23	1,040051E+23	2,512186E+23
290	7,360514E+22	7,360403E+22	5,200189E+22	5,200110E+22	1,472092E+23	1,040030E+23	2,512122E+23
291	7,360575E+22	7,360723E+22	5,200141E+22	5,200151E+22	1,472130E+23	1,040029E+23	2,512159E+23
292	7,360697E+22	7,360628E+22	5,200080E+22	5,200163E+22	1,472133E+23	1,040024E+23	2,512157E+23
293	7,360399E+22	7,360521E+22	5,200169E+22	5,200048E+22	1,472092E+23	1,040022E+23	2,512114E+23
294	7,360621E+22	7,360765E+22	5,200163E+22	5,200157E+22	1,472139E+23	1,040032E+23	2,512171E+23
295	7,360630E+22	7,360446E+22	5,200179E+22	5,200147E+22	1,472108E+23	1,040033E+23	2,512140E+23
296	7,360417E+22	7,360516E+22	5,200282E+22	5,200176E+22	1,472093E+23	1,040046E+23	2,512139E+23
297	7,360663E+22	7,360686E+22	5,200267E+22	5,200380E+22	1,472135E+23	1,040065E+23	2,512200E+23
298	7,360471E+22	7,360414E+22	5,200319E+22	5,200343E+22	1,472089E+23	1,040066E+23	2,512155E+23
299	7,360431E+22	7,360626E+22	5,200423E+22	5,200424E+22	1,472106E+23	1,040085E+23	2,512190E+23
300	7,360672E+22	7,360557E+22	5,200439E+22	5,200521E+22	1,472123E+23	1,040096E+23	2,512219E+23
301	7,360433E+22	7,360348E+22	5,200568E+22	5,200411E+22	1,472078E+23	1,040098E+23	2,512176E+23
302	7,360531E+22	7,360662E+22	5,200582E+22	5,200538E+22	1,472119E+23	1,040112E+23	2,512231E+23
303	7,360584E+22	7,360456E+22	5,200515E+22	5,200563E+22	1,472104E+23	1,040108E+23	2,512212E+23
304	7,360283E+22	7,360457E+22	5,200572E+22	5,200500E+22	1,472074E+23	1,040107E+23	2,512181E+23
305	7,360517E+22	7,360658E+22	5,200512E+22	5,200587E+22	1,472117E+23	1,040110E+23	2,512227E+23
306	7,360485E+22	7,360341E+22	5,200457E+22	5,200415E+22	1,472083E+23	1,040087E+23	2,512170E+23
307	7,360404E+22	7,360514E+22	5,200455E+22	5,200356E+22	1,472092E+23	1,040081E+23	2,512173E+23
308	7,360687E+22	7,360580E+22	5,200323E+22	5,200416E+22	1,472127E+23	1,040074E+23	2,512201E+23
309	7,360463E+22	7,360380E+22	5,200320E+22	5,200237E+22	1,472084E+23	1,040056E+23	2,512140E+23
310	7,360450E+22	7,360717E+22	5,200306E+22	5,200281E+22	1,472117E+23	1,040059E+23	2,512175E+23
311	7,360629E+22	7,360553E+22	5,200222E+22	5,200287E+22	1,472118E+23	1,040051E+23	2,512169E+23
312	7,360374E+22	7,360427E+22	5,200324E+22	5,200196E+22	1,472080E+23	1,040052E+23	2,512132E+23
313	7,360552E+22	7,360659E+22	5,200347E+22	5,200338E+22	1,472121E+23	1,040068E+23	2,512190E+23
314	7,360576E+22	7,360383E+22	5,200322E+22	5,200317E+22	1,472096E+23	1,040064E+23	2,512160E+23
315	7,360345E+22	7,360505E+22	5,200413E+22	5,200374E+22	1,472085E+23	1,040079E+23	2,512164E+23
316	7,360579E+22	7,360615E+22	5,200394E+22	5,200567E+22	1,472119E+23	1,040096E+23	2,512216E+23
317	7,360459E+22	7,360310E+22	5,200502E+22	5,200467E+22	1,472077E+23	1,040097E+23	2,512174E+23
318	7,360385E+22	7,360562E+22	5,200626E+22	5,200533E+22	1,472095E+23	1,040116E+23	2,512211E+23
319	7,360643E+22	7,360477E+22	5,200588E+22	5,200647E+22	1,472112E+23	1,040124E+23	2,512236E+23
320	7,360370E+22	7,360320E+22	5,200703E+22	5,200585E+22	1,472069E+23	1,040129E+23	2,512198E+23
321	7,360371E+22	7,360635E+22	5,200737E+22	5,200734E+22	1,472101E+23	1,040147E+23	2,512248E+23
322	7,360472E+22	7,360416E+22	5,200656E+22	5,200708E+22	1,472089E+23	1,040136E+23	2,512225E+23
323	7,360232E+22	7,360400E+22	5,200713E+22	5,200632E+22	1,472063E+23	1,040135E+23	2,512198E+23
324	7,360489E+22	7,360536E+22	5,200639E+22	5,200714E+22	1,472102E+23	1,040135E+23	2,512238E+23
325	7,360518E+22	7,360238E+22	5,200597E+22	5,200519E+22	1,472076E+23	1,040112E+23	2,512187E+23
326	7,360345E+22	7,360497E+22	5,200579E+22	5,200477E+22	1,472084E+23	1,040106E+23	2,512190E+23
327	7,360613E+22	7,360560E+22	5,200401E+22	5,200552E+22	1,472117E+23	1,040095E+23	2,512213E+23
328	7,360406E+22	7,360351E+22	5,200427E+22	5,200375E+22	1,472076E+23	1,040080E+23	2,512156E+23
329	7,360347E+22	7,360634E+22	5,200483E+22	5,200410E+22	1,472098E+23	1,040089E+23	2,512187E+23
330	7,360591E+22	7,360473E+22	5,200389E+22	5,200388E+22	1,472106E+23	1,040078E+23	2,512184E+23
331	7,360350E+22	7,360364E+22	5,200472E+22	5,200342E+22	1,472071E+23	1,040081E+23	2,512153E+23
332	7,360461E+22	7,360581E+22	5,200476E+22	5,200533E+22	1,472104E+23	1,040101E+23	2,512205E+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	7,360520E+22	7,360328E+22	5,200469E+22	5,200496E+22	1,472085E+23	1,040097E+23	2,512181E+23
334	7,360247E+22	7,360470E+22	5,200583E+22	5,200529E+22	1,472072E+23	1,040111E+23	2,512183E+23
335	7,360541E+22	7,360537E+22	5,200546E+22	5,200706E+22	1,472108E+23	1,040125E+23	2,512233E+23
336	7,360460E+22	7,360241E+22	5,200669E+22	5,200608E+22	1,472070E+23	1,040128E+23	2,512198E+23
337	7,360301E+22	7,360497E+22	5,200828E+22	5,200700E+22	1,472080E+23	1,040153E+23	2,512233E+23
338	7,360547E+22	7,360460E+22	5,200745E+22	5,200812E+22	1,472101E+23	1,040156E+23	2,512256E+23
339	7,360259E+22	7,360311E+22	5,200841E+22	5,200782E+22	1,472057E+23	1,040162E+23	2,512219E+23
340	7,360255E+22	7,360532E+22	5,200877E+22	5,200917E+22	1,472079E+23	1,040179E+23	2,512258E+23
341	7,360465E+22	7,360279E+22	5,200815E+22	5,200825E+22	1,472074E+23	1,040164E+23	2,512238E+23
342	7,360218E+22	7,360311E+22	5,200861E+22	5,200722E+22	1,472053E+23	1,040158E+23	2,512211E+23
343	7,360502E+22	7,360457E+22	5,200722E+22	5,200818E+22	1,472096E+23	1,040154E+23	2,512250E+23
344	7,360491E+22	7,360238E+22	5,200677E+22	5,200645E+22	1,472073E+23	1,040132E+23	2,512205E+23
345	7,360223E+22	7,360508E+22	5,200712E+22	5,200617E+22	1,472073E+23	1,040133E+23	2,512206E+23
346	7,360514E+22	7,360548E+22	5,200541E+22	5,200649E+22	1,472106E+23	1,040119E+23	2,512225E+23
347	7,360341E+22	7,360314E+22	5,200588E+22	5,200501E+22	1,472066E+23	1,040109E+23	2,512174E+23
348	7,360279E+22	7,360506E+22	5,200646E+22	5,200561E+22	1,472078E+23	1,040121E+23	2,512199E+23
349	7,360566E+22	7,360347E+22	5,200555E+22	5,200546E+22	1,472091E+23	1,040110E+23	2,512201E+23
350	7,360259E+22	7,360324E+22	5,200609E+22	5,200523E+22	1,472058E+23	1,040113E+23	2,512171E+23
351	7,360396E+22	7,360513E+22	5,200563E+22	5,200721E+22	1,472091E+23	1,040128E+23	2,512219E+23
352	7,360489E+22	7,360272E+22	5,200591E+22	5,200655E+22	1,472076E+23	1,040125E+23	2,512201E+23
353	7,360189E+22	7,360397E+22	5,200772E+22	5,200663E+22	1,472059E+23	1,040143E+23	2,512202E+23
354	7,360511E+22	7,360484E+22	5,200729E+22	5,200806E+22	1,472100E+23	1,040153E+23	2,512253E+23
355	7,360411E+22	7,360231E+22	5,200845E+22	5,200767E+22	1,472064E+23	1,040161E+23	2,512225E+23
356	7,360168E+22	7,360442E+22	5,200995E+22	5,200904E+22	1,472061E+23	1,040190E+23	2,512251E+23
357	7,360448E+22	7,360393E+22	5,200924E+22	5,200996E+22	1,472084E+23	1,040192E+23	2,512276E+23
358	7,360155E+22	7,360244E+22	5,201016E+22	5,200937E+22	1,472040E+23	1,040195E+23	2,512235E+23
359	7,360234E+22	7,360401E+22	5,201002E+22	5,201054E+22	1,472064E+23	1,040206E+23	2,512269E+23
360	7,360500E+22	7,360186E+22	5,200933E+22	5,200947E+22	1,472069E+23	1,040188E+23	2,512257E+23
361	7,360177E+22	7,360255E+22	5,200993E+22	5,200854E+22	1,472043E+23	1,040185E+23	2,512228E+23
362	7,360432E+22	7,360477E+22	5,200818E+22	5,200933E+22	1,472091E+23	1,040175E+23	2,512266E+23
363	7,360405E+22	7,360273E+22	5,200773E+22	5,200781E+22	1,472068E+23	1,040155E+23	2,512223E+23
364	7,360101E+22	7,360428E+22	5,200856E+22	5,200748E+22	1,472053E+23	1,040160E+23	2,512213E+23
365	7,360472E+22	7,360438E+22	5,200717E+22	5,200747E+22	1,472091E+23	1,040146E+23	2,512237E+23
366	7,360284E+22	7,360222E+22	5,200757E+22	5,200615E+22	1,472051E+23	1,040137E+23	2,512188E+23
367	7,360244E+22	7,360395E+22	5,200753E+22	5,200724E+22	1,472064E+23	1,040148E+23	2,512212E+23
368	7,360522E+22	7,360303E+22	5,200653E+22	5,200727E+22	1,472082E+23	1,040138E+23	2,512220E+23
369	7,360155E+22	7,360293E+22	5,200749E+22	5,200698E+22	1,472045E+23	1,040145E+23	2,512190E+23
370	7,360336E+22	7,360487E+22	5,200710E+22	5,200840E+22	1,472082E+23	1,040155E+23	2,512237E+23
371	7,360465E+22	7,360253E+22	5,200763E+22	5,200788E+22	1,472072E+23	1,040155E+23	2,512227E+23
372	7,360132E+22	7,360301E+22	5,200981E+22	5,200821E+22	1,472043E+23	1,040180E+23	2,512223E+23
373	7,360460E+22	7,360407E+22	5,200940E+22	5,200974E+22	1,472087E+23	1,040191E+23	2,512278E+23
374	7,360280E+22	7,360210E+22	5,201031E+22	5,200967E+22	1,472049E+23	1,040200E+23	2,512249E+23
375	7,360070E+22	7,360347E+22	5,201121E+22	5,201115E+22	1,472042E+23	1,040224E+23	2,512265E+23
376	7,360402E+22	7,360286E+22	5,201061E+22	5,201162E+22	1,472069E+23	1,040222E+23	2,512291E+23
377	7,360121E+22	7,360140E+22	5,201173E+22	5,201069E+22	1,472026E+23	1,040224E+23	2,512250E+23
378	7,360242E+22	7,360330E+22	5,201116E+22	5,201138E+22	1,472057E+23	1,040225E+23	2,512282E+23
379	7,360475E+22	7,360204E+22	5,201030E+22	5,201070E+22	1,472068E+23	1,040210E+23	2,512278E+23
380	7,360070E+22	7,360245E+22	5,201108E+22	5,200998E+22	1,472032E+23	1,040211E+23	2,512242E+23
381	7,360333E+22	7,360446E+22	5,200968E+22	5,201045E+22	1,472078E+23	1,040201E+23	2,512279E+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							
382	7,360291E+22	7,360242E+22	5,200948E+22	5,200887E+22	1,472053E+23	1,040184E+23	2,512237E+23
383	7,360058E+22	7,360293E+22	5,200990E+22	5,200877E+22	1,472035E+23	1,040187E+23	2,512222E+23
384	7,360459E+22	7,360318E+22	5,200853E+22	5,200887E+22	1,472078E+23	1,040174E+23	2,512252E+23
385	7,360219E+22	7,360144E+22	5,200889E+22	5,200789E+22	1,472036E+23	1,040168E+23	2,512204E+23
386	7,360174E+22	7,360365E+22	5,200840E+22	5,200881E+22	1,472054E+23	1,040172E+23	2,512226E+23
387	7,360464E+22	7,360308E+22	5,200753E+22	5,200894E+22	1,472077E+23	1,040165E+23	2,512242E+23
388	7,360089E+22	7,360208E+22	5,200913E+22	5,200839E+22	1,472030E+23	1,040175E+23	2,512205E+23
389	7,360326E+22	7,360400E+22	5,200917E+22	5,200940E+22	1,472073E+23	1,040186E+23	2,512258E+23
390	7,360411E+22	7,360214E+22	5,200976E+22	5,200913E+22	1,472063E+23	1,040189E+23	2,512251E+23
391	7,360060E+22	7,360223E+22	5,201142E+22	5,201016E+22	1,472028E+23	1,040216E+23	2,512244E+23
392	7,360360E+22	7,360366E+22	5,201098E+22	5,201184E+22	1,472073E+23	1,040228E+23	2,512301E+23
393	7,360146E+22	7,360143E+22	5,201208E+22	5,201174E+22	1,472029E+23	1,040238E+23	2,512267E+23
394	7,360001E+22	7,360266E+22	5,201268E+22	5,201261E+22	1,472027E+23	1,040253E+23	2,512280E+23
395	7,360399E+22	7,360227E+22	5,201190E+22	5,201301E+22	1,472063E+23	1,040249E+23	2,512312E+23
396	7,360092E+22	7,360034E+22	5,201320E+22	5,201205E+22	1,472013E+23	1,040253E+23	2,512265E+23
397	7,360214E+22	7,360291E+22	5,201256E+22	5,201258E+22	1,472051E+23	1,040251E+23	2,512302E+23
398	7,360365E+22	7,360230E+22	5,201162E+22	5,201198E+22	1,472060E+23	1,040236E+23	2,512296E+23
399	7,359982E+22	7,360176E+22	5,201217E+22	5,201142E+22	1,472016E+23	1,040236E+23	2,512252E+23
400	7,360277E+22	7,360353E+22	5,201110E+22	5,201151E+22	1,472063E+23	1,040226E+23	2,512289E+23
401	7,360230E+22	7,360132E+22	5,201112E+22	5,201001E+22	1,472036E+23	1,040211E+23	2,512247E+23
402	7,360032E+22	7,360202E+22	5,201102E+22	5,200984E+22	1,472023E+23	1,040209E+23	2,512232E+23
403	7,360418E+22	7,360304E+22	5,200940E+22	5,201047E+22	1,472072E+23	1,040199E+23	2,512271E+23
404	7,360125E+22	7,360101E+22	5,201005E+22	5,200964E+22	1,472023E+23	1,040197E+23	2,512220E+23
405	7,360120E+22	7,360326E+22	5,200988E+22	5,201010E+22	1,472045E+23	1,040200E+23	2,512244E+23
406	7,360395E+22	7,360292E+22	5,200942E+22	5,201006E+22	1,472069E+23	1,040195E+23	2,512264E+23
407	7,360075E+22	7,360103E+22	5,201086E+22	5,200985E+22	1,472018E+23	1,040207E+23	2,512225E+23
408	7,360292E+22	7,360311E+22	5,201111E+22	5,201096E+22	1,472060E+23	1,040221E+23	2,512281E+23
409	7,360302E+22	7,360169E+22	5,201167E+22	5,201126E+22	1,472047E+23	1,040229E+23	2,512276E+23
410	7,359948E+22	7,360175E+22	5,201270E+22	5,201216E+22	1,472012E+23	1,040249E+23	2,512261E+23
411	7,360264E+22	7,360323E+22	5,201224E+22	5,201385E+22	1,472059E+23	1,040261E+23	2,512320E+23
412	7,360083E+22	7,360015E+22	5,201371E+22	5,201336E+22	1,472010E+23	1,040271E+23	2,512280E+23
413	7,360013E+22	7,360148E+22	5,201431E+22	5,201364E+22	1,472016E+23	1,040280E+23	2,512296E+23
414	7,360372E+22	7,360197E+22	5,201352E+22	5,201405E+22	1,472057E+23	1,040276E+23	2,512333E+23
415	7,360055E+22	7,359985E+22	5,201427E+22	5,201351E+22	1,472004E+23	1,040278E+23	2,512282E+23
416	7,360132E+22	7,360276E+22	5,201386E+22	5,201387E+22	1,472041E+23	1,040277E+23	2,512318E+23
417	7,360242E+22	7,360204E+22	5,201323E+22	5,201332E+22	1,472045E+23	1,040266E+23	2,512310E+23
418	7,359908E+22	7,360101E+22	5,201352E+22	5,201245E+22	1,472001E+23	1,040260E+23	2,512261E+23
419	7,360241E+22	7,360288E+22	5,201235E+22	5,201280E+22	1,472053E+23	1,040252E+23	2,512304E+23
420	7,360180E+22	7,360011E+22	5,201254E+22	5,201158E+22	1,472019E+23	1,040241E+23	2,512260E+23
421	7,359993E+22	7,360145E+22	5,201217E+22	5,201136E+22	1,472014E+23	1,040235E+23	2,512249E+23
422	7,360331E+22	7,360311E+22	5,201057E+22	5,201197E+22	1,472064E+23	1,040225E+23	2,512290E+23
423	7,360081E+22	7,360023E+22	5,201113E+22	5,201117E+22	1,472010E+23	1,040223E+23	2,512233E+23
424	7,360108E+22	7,360248E+22	5,201151E+22	5,201113E+22	1,472036E+23	1,040226E+23	2,512262E+23
425	7,360352E+22	7,360219E+22	5,201133E+22	5,201129E+22	1,472057E+23	1,040226E+23	2,512283E+23
426	7,360021E+22	7,360045E+22	5,201244E+22	5,201128E+22	1,472007E+23	1,040237E+23	2,512244E+23
427	7,360195E+22	7,360312E+22	5,201246E+22	5,201294E+22	1,472051E+23	1,040254E+23	2,512305E+23
428	7,360156E+22	7,360094E+22	5,201340E+22	5,201344E+22	1,472025E+23	1,040268E+23	2,512293E+23
429	7,359869E+22	7,360092E+22	5,201447E+22	5,201384E+22	1,471996E+23	1,040283E+23	2,512279E+23
430	7,360209E+22	7,360253E+22	5,201413E+22	5,201518E+22	1,472046E+23	1,040293E+23	2,512339E+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	7,360097E+22	7,359881E+22	5,201518E+22	5,201485E+22	1,471998E+23	1,040300E+23	2,512298E+23
432	7,360021E+22	7,360069E+22	5,201581E+22	5,201493E+22	1,472009E+23	1,040307E+23	2,512317E+23
433	7,360284E+22	7,360190E+22	5,201497E+22	5,201567E+22	1,472047E+23	1,040306E+23	2,512354E+23
434	7,359954E+22	7,359981E+22	5,201531E+22	5,201495E+22	1,471994E+23	1,040303E+23	2,512296E+23
435	7,360036E+22	7,360260E+22	5,201502E+22	5,201522E+22	1,472030E+23	1,040302E+23	2,512332E+23
436	7,360160E+22	7,360088E+22	5,201491E+22	5,201456E+22	1,472025E+23	1,040295E+23	2,512320E+23
437	7,359893E+22	7,359989E+22	5,201500E+22	5,201343E+22	1,471988E+23	1,040284E+23	2,512273E+23
438	7,360186E+22	7,360244E+22	5,201373E+22	5,201401E+22	1,472043E+23	1,040277E+23	2,512320E+23
439	7,360139E+22	7,359945E+22	5,201333E+22	5,201332E+22	1,472008E+23	1,040266E+23	2,512275E+23
440	7,359942E+22	7,360101E+22	5,201322E+22	5,201273E+22	1,472004E+23	1,040260E+23	2,512264E+23
441	7,360252E+22	7,360283E+22	5,201209E+22	5,201328E+22	1,472054E+23	1,040254E+23	2,512307E+23
442	7,360053E+22	7,359963E+22	5,201245E+22	5,201214E+22	1,472002E+23	1,040246E+23	2,512248E+23
443	7,360074E+22	7,360203E+22	5,201302E+22	5,201239E+22	1,472028E+23	1,040254E+23	2,512282E+23
444	7,360268E+22	7,360136E+22	5,201324E+22	5,201307E+22	1,472040E+23	1,040263E+23	2,512303E+23
445	7,359929E+22	7,359992E+22	5,201408E+22	5,201317E+22	1,471992E+23	1,040272E+23	2,512265E+23
446	7,360063E+22	7,360284E+22	5,201419E+22	5,201486E+22	1,472035E+23	1,040291E+23	2,512325E+23
447	7,360101E+22	7,359959E+22	5,201484E+22	5,201538E+22	1,472006E+23	1,040302E+23	2,512308E+23
448	7,359874E+22	7,359958E+22	5,201615E+22	5,201512E+22	1,471983E+23	1,040313E+23	2,512296E+23
449	7,360193E+22	7,360171E+22	5,201588E+22	5,201652E+22	1,472036E+23	1,040324E+23	2,512360E+23
450	7,360072E+22	7,359848E+22	5,201637E+22	5,201616E+22	1,471992E+23	1,040325E+23	2,512317E+23
451	7,359942E+22	7,360113E+22	5,201692E+22	5,201653E+22	1,472005E+23	1,040334E+23	2,512340E+23
452	7,360149E+22	7,360163E+22	5,201664E+22	5,201735E+22	1,472031E+23	1,040340E+23	2,512371E+23
453	7,359860E+22	7,359934E+22	5,201704E+22	5,201622E+22	1,471979E+23	1,040333E+23	2,512312E+23
454	7,359953E+22	7,360201E+22	5,201685E+22	5,201634E+22	1,472015E+23	1,040332E+23	2,512347E+23
455	7,360139E+22	7,359937E+22	5,201623E+22	5,201611E+22	1,472008E+23	1,040323E+23	2,512331E+23
456	7,359889E+22	7,359888E+22	5,201617E+22	5,201483E+22	1,471978E+23	1,040310E+23	2,512288E+23
457	7,360116E+22	7,360206E+22	5,201470E+22	5,201564E+22	1,472032E+23	1,040303E+23	2,512336E+23
458	7,360075E+22	7,359917E+22	5,201395E+22	5,201462E+22	1,471999E+23	1,040286E+23	2,512285E+23
459	7,359906E+22	7,360087E+22	5,201413E+22	5,201377E+22	1,471999E+23	1,040279E+23	2,512278E+23
460	7,360201E+22	7,360188E+22	5,201381E+22	5,201426E+22	1,472039E+23	1,040281E+23	2,512320E+23
461	7,360026E+22	7,359902E+22	5,201423E+22	5,201314E+22	1,471993E+23	1,040274E+23	2,512267E+23
462	7,359978E+22	7,360189E+22	5,201489E+22	5,201382E+22	1,472017E+23	1,040287E+23	2,512304E+23
463	7,360163E+22	7,360060E+22	5,201470E+22	5,201525E+22	1,472022E+23	1,040299E+23	2,512322E+23
464	7,359846E+22	7,359909E+22	5,201573E+22	5,201505E+22	1,471975E+23	1,040308E+23	2,512283E+23
465	7,359976E+22	7,360196E+22	5,201604E+22	5,201666E+22	1,472017E+23	1,040327E+23	2,512344E+23
466	7,360085E+22	7,359863E+22	5,201624E+22	5,201684E+22	1,471995E+23	1,040331E+23	2,512326E+23
467	7,359878E+22	7,359910E+22	5,201746E+22	5,201662E+22	1,471979E+23	1,040341E+23	2,512320E+23
468	7,360130E+22	7,360118E+22	5,201762E+22	5,201829E+22	1,472025E+23	1,040359E+23	2,512384E+23
469	7,359986E+22	7,359860E+22	5,201783E+22	5,201778E+22	1,471985E+23	1,040356E+23	2,512341E+23
470	7,359807E+22	7,360122E+22	5,201866E+22	5,201800E+22	1,471993E+23	1,040367E+23	2,512360E+23
471	7,360076E+22	7,360046E+22	5,201818E+22	5,201891E+22	1,472012E+23	1,040371E+23	2,512383E+23
472	7,359847E+22	7,359785E+22	5,201866E+22	5,201728E+22	1,471963E+23	1,040359E+23	2,512323E+23
473	7,359911E+22	7,360095E+22	5,201834E+22	5,201764E+22	1,472001E+23	1,040360E+23	2,512360E+23
474	7,360107E+22	7,359875E+22	5,201686E+22	5,201741E+22	1,471998E+23	1,040343E+23	2,512341E+23
475	7,359831E+22	7,359894E+22	5,201666E+22	5,201623E+22	1,471973E+23	1,040329E+23	2,512301E+23
476	7,360026E+22	7,360168E+22	5,201596E+22	5,201697E+22	1,472019E+23	1,040329E+23	2,512349E+23
477	7,360026E+22	7,359893E+22	5,201536E+22	5,201545E+22	1,471992E+23	1,040308E+23	2,512300E+23
478	7,359849E+22	7,360060E+22	5,201603E+22	5,201459E+22	1,471991E+23	1,040306E+23	2,512297E+23
479	7,360162E+22	7,360075E+22	5,201549E+22	5,201577E+22	1,472024E+23	1,040313E+23	2,512336E+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	7,359968E+22	7,359819E+22	5,201594E+22	5,201488E+22	1,471979E+23	1,040308E+23	2,512287E+23
481	7,359845E+22	7,360144E+22	5,201649E+22	5,201603E+22	1,471999E+23	1,040325E+23	2,512324E+23
482	7,360065E+22	7,359984E+22	5,201583E+22	5,201721E+22	1,472005E+23	1,040330E+23	2,512335E+23
483	7,359813E+22	7,359838E+22	5,201694E+22	5,201667E+22	1,471965E+23	1,040336E+23	2,512301E+23
484	7,359956E+22	7,360073E+22	5,201786E+22	5,201815E+22	1,472003E+23	1,040360E+23	2,512363E+23
485	7,360076E+22	7,359823E+22	5,201788E+22	5,201810E+22	1,471990E+23	1,040360E+23	2,512350E+23
486	7,359809E+22	7,359937E+22	5,201924E+22	5,201806E+22	1,471975E+23	1,040373E+23	2,512348E+23
487	7,360028E+22	7,360073E+22	5,201919E+22	5,202019E+22	1,472010E+23	1,040394E+23	2,512404E+23
488	7,359900E+22	7,359803E+22	5,201971E+22	5,201930E+22	1,471970E+23	1,040390E+23	2,512361E+23
489	7,359708E+22	7,360037E+22	5,202055E+22	5,201945E+22	1,471974E+23	1,040400E+23	2,512374E+23
490	7,360028E+22	7,359923E+22	5,201944E+22	5,202018E+22	1,471995E+23	1,040396E+23	2,512391E+23
491	7,359839E+22	7,359709E+22	5,201958E+22	5,201866E+22	1,471955E+23	1,040382E+23	2,512337E+23
492	7,359850E+22	7,360008E+22	5,201948E+22	5,201927E+22	1,471986E+23	1,040387E+23	2,512373E+23
493	7,360035E+22	7,359880E+22	5,201770E+22	5,201874E+22	1,471992E+23	1,040364E+23	2,512356E+23
494	7,359755E+22	7,359906E+22	5,201788E+22	5,201722E+22	1,471966E+23	1,040351E+23	2,512317E+23
495	7,359985E+22	7,360069E+22	5,201733E+22	5,201801E+22	1,472005E+23	1,040353E+23	2,512359E+23
496	7,360022E+22	7,359798E+22	5,201708E+22	5,201624E+22	1,471982E+23	1,040333E+23	2,512315E+23
497	7,359777E+22	7,359996E+22	5,201781E+22	5,201597E+22	1,471977E+23	1,040338E+23	2,512315E+23
498	7,360063E+22	7,360030E+22	5,201664E+22	5,201754E+22	1,472009E+23	1,040342E+23	2,512351E+23
499	7,359870E+22	7,359801E+22	5,201700E+22	5,201689E+22	1,471967E+23	1,040339E+23	2,512306E+23
500	7,359738E+22	7,360048E+22	5,201823E+22	5,201802E+22	1,471979E+23	1,040363E+23	2,512341E+23
501	7,360022E+22	7,359919E+22	5,201746E+22	5,201864E+22	1,471994E+23	1,040361E+23	2,512355E+23
502	7,359795E+22	7,359786E+22	5,201885E+22	5,201793E+22	1,471958E+23	1,040368E+23	2,512326E+23
503	7,359949E+22	7,359969E+22	5,201957E+22	5,201988E+22	1,471992E+23	1,040394E+23	2,512386E+23
504	7,360039E+22	7,359774E+22	5,201960E+22	5,201973E+22	1,471981E+23	1,040393E+23	2,512375E+23
505	7,359679E+22	7,359923E+22	5,202102E+22	5,201997E+22	1,471960E+23	1,040410E+23	2,512370E+23
506	7,359920E+22	7,360006E+22	5,202051E+22	5,202177E+22	1,471993E+23	1,040423E+23	2,512415E+23
507	7,359846E+22	7,359714E+22	5,202106E+22	5,202064E+22	1,471956E+23	1,040417E+23	2,512373E+23
508	7,359657E+22	7,359893E+22	5,202229E+22	5,202084E+22	1,471955E+23	1,040431E+23	2,512386E+23
509	7,359989E+22	7,359866E+22	5,202062E+22	5,202138E+22	1,471986E+23	1,040420E+23	2,512406E+23
510	7,359772E+22	7,359719E+22	5,202071E+22	5,201996E+22	1,471949E+23	1,040407E+23	2,512356E+23
511	7,359779E+22	7,359955E+22	5,202044E+22	5,202083E+22	1,471973E+23	1,040413E+23	2,512386E+23
512	7,359988E+22	7,359834E+22	5,201910E+22	5,201973E+22	1,471982E+23	1,040388E+23	2,512371E+23
513	7,359689E+22	7,359860E+22	5,201959E+22	5,201825E+22	1,471955E+23	1,040378E+23	2,512333E+23
514	7,359942E+22	7,359983E+22	5,201865E+22	5,201905E+22	1,471992E+23	1,040377E+23	2,512370E+23
515	7,359985E+22	7,359749E+22	5,201833E+22	5,201773E+22	1,471973E+23	1,040361E+23	2,512334E+23
516	7,359671E+22	7,359918E+22	5,201937E+22	5,201803E+22	1,471959E+23	1,040374E+23	2,512333E+23
517	7,359944E+22	7,360008E+22	5,201788E+22	5,201938E+22	1,471995E+23	1,040373E+23	2,512368E+23
518	7,359800E+22	7,359760E+22	5,201856E+22	5,201845E+22	1,471956E+23	1,040370E+23	2,512326E+23
519	7,359728E+22	7,359891E+22	5,201980E+22	5,201955E+22	1,471962E+23	1,040394E+23	2,512355E+23
520	7,360050E+22	7,359811E+22	5,201929E+22	5,201978E+22	1,471986E+23	1,040391E+23	2,512377E+23
521	7,359758E+22	7,359747E+22	5,202063E+22	5,201940E+22	1,471950E+23	1,040400E+23	2,512351E+23
522	7,359854E+22	7,359947E+22	5,202085E+22	5,202153E+22	1,471980E+23	1,040424E+23	2,512404E+23
523	7,359936E+22	7,359785E+22	5,202099E+22	5,202151E+22	1,471972E+23	1,040425E+23	2,512397E+23
524	7,359553E+22	7,359836E+22	5,202305E+22	5,202180E+22	1,471939E+23	1,040448E+23	2,512387E+23
525	7,359828E+22	7,359940E+22	5,202227E+22	5,202312E+22	1,471977E+23	1,040454E+23	2,512431E+23
526	7,359808E+22	7,359641E+22	5,202279E+22	5,202198E+22	1,471945E+23	1,040448E+23	2,512393E+23
527	7,359629E+22	7,359757E+22	5,202358E+22	5,202260E+22	1,471939E+23	1,040462E+23	2,512400E+23
528	7,359954E+22	7,359812E+22	5,202176E+22	5,202288E+22	1,471977E+23	1,040446E+23	2,512423E+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							
529	7,359685E+22	7,359708E+22	5,202184E+22	5,202141E+22	1,471939E+23	1,040433E+23	2,512372E+23
530	7,359724E+22	7,359897E+22	5,202133E+22	5,202184E+22	1,471962E+23	1,040432E+23	2,512394E+23
531	7,359979E+22	7,359783E+22	5,202022E+22	5,202050E+22	1,471976E+23	1,040407E+23	2,512383E+23
532	7,359645E+22	7,359760E+22	5,202132E+22	5,201941E+22	1,471940E+23	1,040407E+23	2,512348E+23
533	7,359859E+22	7,359963E+22	5,202001E+22	5,202027E+22	1,471982E+23	1,040403E+23	2,512385E+23
534	7,359881E+22	7,359751E+22	5,201979E+22	5,201937E+22	1,471963E+23	1,040392E+23	2,512355E+23
535	7,359580E+22	7,359820E+22	5,202076E+22	5,202003E+22	1,471940E+23	1,040408E+23	2,512348E+23
536	7,359908E+22	7,359902E+22	5,201953E+22	5,202080E+22	1,471981E+23	1,040403E+23	2,512384E+23
537	7,359761E+22	7,359677E+22	5,202034E+22	5,201981E+22	1,471944E+23	1,040402E+23	2,512345E+23
538	7,359725E+22	7,359795E+22	5,202109E+22	5,202087E+22	1,471952E+23	1,040420E+23	2,512372E+23
539	7,360028E+22	7,359781E+22	5,202059E+22	5,202136E+22	1,471981E+23	1,040420E+23	2,512400E+23
540	7,359646E+22	7,359716E+22	5,202244E+22	5,202150E+22	1,471936E+23	1,040439E+23	2,512376E+23
541	7,359707E+22	7,359955E+22	5,202246E+22	5,202325E+22	1,471966E+23	1,040457E+23	2,512423E+23
542	7,359837E+22	7,359744E+22	5,202296E+22	5,202306E+22	1,471958E+23	1,040460E+23	2,512418E+23
543	7,359508E+22	7,359667E+22	5,202486E+22	5,202345E+22	1,471917E+23	1,040483E+23	2,512401E+23
544	7,359821E+22	7,359806E+22	5,202399E+22	5,202442E+22	1,471963E+23	1,040484E+23	2,512447E+23
545	7,359756E+22	7,359589E+22	5,202420E+22	5,202354E+22	1,471934E+23	1,040477E+23	2,512412E+23
546	7,359569E+22	7,359716E+22	5,202426E+22	5,202413E+22	1,471929E+23	1,040484E+23	2,512412E+23
547	7,359905E+22	7,359812E+22	5,202263E+22	5,202415E+22	1,471972E+23	1,040468E+23	2,512440E+23
548	7,359618E+22	7,359652E+22	5,202343E+22	5,202259E+22	1,471927E+23	1,040460E+23	2,512387E+23
549	7,359657E+22	7,359873E+22	5,202281E+22	5,202253E+22	1,471953E+23	1,040453E+23	2,512406E+23
550	7,359945E+22	7,359752E+22	5,202191E+22	5,202153E+22	1,471970E+23	1,040434E+23	2,512404E+23
551	7,359584E+22	7,359639E+22	5,202274E+22	5,202118E+22	1,471922E+23	1,040439E+23	2,512361E+23
552	7,359772E+22	7,359900E+22	5,202137E+22	5,202200E+22	1,471967E+23	1,040434E+23	2,512401E+23
553	7,359778E+22	7,359700E+22	5,202111E+22	5,202112E+22	1,471948E+23	1,040422E+23	2,512370E+23
554	7,359537E+22	7,359699E+22	5,202172E+22	5,202139E+22	1,471924E+23	1,040431E+23	2,512355E+23
555	7,359926E+22	7,359818E+22	5,202074E+22	5,202188E+22	1,471974E+23	1,040426E+23	2,512401E+23
556	7,359742E+22	7,359593E+22	5,202205E+22	5,202122E+22	1,471933E+23	1,040433E+23	2,512366E+23
557	7,359641E+22	7,359816E+22	5,202255E+22	5,202221E+22	1,471946E+23	1,040448E+23	2,512393E+23
558	7,359921E+22	7,359823E+22	5,202234E+22	5,202309E+22	1,471974E+23	1,040454E+23	2,512429E+23
559	7,359525E+22	7,359630E+22	5,202438E+22	5,202359E+22	1,471915E+23	1,040480E+23	2,512395E+23
560	7,359625E+22	7,359855E+22	5,202461E+22	5,202482E+22	1,471948E+23	1,040494E+23	2,512442E+23
561	7,359771E+22	7,359638E+22	5,202503E+22	5,202468E+22	1,471941E+23	1,040497E+23	2,512438E+23
562	7,359495E+22	7,359525E+22	5,202612E+22	5,202508E+22	1,471902E+23	1,040512E+23	2,512414E+23
563	7,359813E+22	7,359744E+22	5,202498E+22	5,202605E+22	1,471956E+23	1,040510E+23	2,512466E+23
564	7,359679E+22	7,359556E+22	5,202539E+22	5,202538E+22	1,471923E+23	1,040508E+23	2,512431E+23
565	7,359482E+22	7,359735E+22	5,202525E+22	5,202522E+22	1,471922E+23	1,040505E+23	2,512426E+23
566	7,359861E+22	7,359796E+22	5,202413E+22	5,202497E+22	1,471966E+23	1,040491E+23	2,512457E+23
567	7,359590E+22	7,359534E+22	5,202505E+22	5,202366E+22	1,471912E+23	1,040487E+23	2,512400E+23
568	7,359624E+22	7,359785E+22	5,202442E+22	5,202345E+22	1,471941E+23	1,040479E+23	2,512420E+23
569	7,359835E+22	7,359718E+22	5,202337E+22	5,202304E+22	1,471955E+23	1,040464E+23	2,512419E+23
570	7,359487E+22	7,359575E+22	5,202351E+22	5,202293E+22	1,471906E+23	1,040464E+23	2,512371E+23
571	7,359710E+22	7,359837E+22	5,202235E+22	5,202352E+22	1,471955E+23	1,040459E+23	2,512413E+23
572	7,359721E+22	7,359610E+22	5,202266E+22	5,202267E+22	1,471933E+23	1,040453E+23	2,512386E+23
573	7,359506E+22	7,359659E+22	5,202303E+22	5,202237E+22	1,471916E+23	1,040454E+23	2,512370E+23
574	7,359917E+22	7,359795E+22	5,202242E+22	5,202316E+22	1,471971E+23	1,040456E+23	2,512427E+23
575	7,359680E+22	7,359525E+22	5,202372E+22	5,202316E+22	1,471920E+23	1,040469E+23	2,512389E+23
576	7,359537E+22	7,359787E+22	5,202438E+22	5,202398E+22	1,471932E+23	1,040484E+23	2,512416E+23
577	7,359790E+22	7,359783E+22	5,202438E+22	5,202494E+22	1,471957E+23	1,040493E+23	2,512451E+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							
578	7,359468E+22	7,359487E+22	5,202595E+22	5,202525E+22	1,471895E+23	1,040512E+23	2,512408E+23
579	7,359620E+22	7,359729E+22	5,202619E+22	5,202625E+22	1,471935E+23	1,040524E+23	2,512459E+23
580	7,359738E+22	7,359535E+22	5,202667E+22	5,202646E+22	1,471927E+23	1,040531E+23	2,512459E+23
581	7,359420E+22	7,359529E+22	5,202714E+22	5,202654E+22	1,471895E+23	1,040537E+23	2,512432E+23
582	7,359750E+22	7,359779E+22	5,202625E+22	5,202756E+22	1,471953E+23	1,040538E+23	2,512491E+23
583	7,359606E+22	7,359490E+22	5,202684E+22	5,202685E+22	1,471910E+23	1,040537E+23	2,512447E+23
584	7,359429E+22	7,359676E+22	5,202700E+22	5,202605E+22	1,471911E+23	1,040531E+23	2,512441E+23
585	7,359799E+22	7,359739E+22	5,202592E+22	5,202594E+22	1,471954E+23	1,040519E+23	2,512472E+23
586	7,359544E+22	7,359415E+22	5,202616E+22	5,202503E+22	1,471896E+23	1,040512E+23	2,512408E+23
587	7,359557E+22	7,359727E+22	5,202540E+22	5,202505E+22	1,471928E+23	1,040505E+23	2,512433E+23
588	7,359717E+22	7,359661E+22	5,202450E+22	5,202502E+22	1,471938E+23	1,040495E+23	2,512433E+23
589	7,359396E+22	7,359542E+22	5,202438E+22	5,202418E+22	1,471894E+23	1,040486E+23	2,512379E+23
590	7,359707E+22	7,359777E+22	5,202369E+22	5,202455E+22	1,471948E+23	1,040482E+23	2,512431E+23
591	7,359724E+22	7,359487E+22	5,202416E+22	5,202389E+22	1,471921E+23	1,040480E+23	2,512402E+23
592	7,359493E+22	7,359609E+22	5,202471E+22	5,202344E+22	1,471910E+23	1,040481E+23	2,512392E+23
593	7,359815E+22	7,359803E+22	5,202422E+22	5,202473E+22	1,471962E+23	1,040489E+23	2,512451E+23
594	7,359573E+22	7,359478E+22	5,202518E+22	5,202509E+22	1,471905E+23	1,040503E+23	2,512408E+23
595	7,359449E+22	7,359722E+22	5,202616E+22	5,202573E+22	1,471917E+23	1,040519E+23	2,512436E+23
596	7,359694E+22	7,359677E+22	5,202650E+22	5,202690E+22	1,471937E+23	1,040534E+23	2,512471E+23
597	7,359418E+22	7,359410E+22	5,202752E+22	5,202674E+22	1,471883E+23	1,040543E+23	2,512425E+23
598	7,359611E+22	7,359659E+22	5,202775E+22	5,202796E+22	1,471927E+23	1,040557E+23	2,512484E+23
599	7,359678E+22	7,359464E+22	5,202800E+22	5,202855E+22	1,471914E+23	1,040565E+23	2,512480E+23
600	7,359354E+22	7,359513E+22	5,202842E+22	5,202801E+22	1,471887E+23	1,040564E+23	2,512451E+23
601	7,359653E+22	7,359752E+22	5,202789E+22	5,202875E+22	1,471941E+23	1,040566E+23	2,512507E+23
602	7,359570E+22	7,359390E+22	5,202813E+22	5,202785E+22	1,471896E+23	1,040560E+23	2,512456E+23
603	7,359413E+22	7,359583E+22	5,202841E+22	5,202691E+22	1,471900E+23	1,040553E+23	2,512453E+23
604	7,359712E+22	7,359670E+22	5,202741E+22	5,202744E+22	1,471938E+23	1,040549E+23	2,512487E+23
605	7,359431E+22	7,359412E+22	5,202702E+22	5,202641E+22	1,471884E+23	1,040534E+23	2,512419E+23
606	7,359478E+22	7,359706E+22	5,202651E+22	5,202662E+22	1,471918E+23	1,040531E+23	2,512450E+23
607	7,359649E+22	7,359560E+22	5,202584E+22	5,202660E+22	1,471921E+23	1,040524E+23	2,512445E+23
608	7,359385E+22	7,359464E+22	5,202588E+22	5,202509E+22	1,471885E+23	1,040510E+23	2,512394E+23
609	7,359687E+22	7,359720E+22	5,202544E+22	5,202558E+22	1,471941E+23	1,040510E+23	2,512451E+23
610	7,359707E+22	7,359408E+22	5,202540E+22	5,202536E+22	1,471912E+23	1,040508E+23	2,512419E+23
611	7,359425E+22	7,359588E+22	5,202613E+22	5,202514E+22	1,471901E+23	1,040513E+23	2,512414E+23
612	7,359670E+22	7,359777E+22	5,202599E+22	5,202688E+22	1,471945E+23	1,040529E+23	2,512473E+23
613	7,359453E+22	7,359432E+22	5,202677E+22	5,202670E+22	1,471889E+23	1,040535E+23	2,512423E+23
614	7,359418E+22	7,359630E+22	5,202804E+22	5,202733E+22	1,471905E+23	1,040554E+23	2,512459E+23
615	7,359664E+22	7,359523E+22	5,202826E+22	5,202870E+22	1,471919E+23	1,040570E+23	2,512488E+23
616	7,359387E+22	7,359341E+22	5,202904E+22	5,202825E+22	1,471873E+23	1,040573E+23	2,512446E+23
617	7,359528E+22	7,359656E+22	5,202925E+22	5,202961E+22	1,471918E+23	1,040589E+23	2,512507E+23
618	7,359604E+22	7,359413E+22	5,202911E+22	5,203017E+22	1,471902E+23	1,040593E+23	2,512494E+23
619	7,359304E+22	7,359467E+22	5,202997E+22	5,202915E+22	1,471877E+23	1,040591E+23	2,512468E+23
620	7,359574E+22	7,359682E+22	5,202976E+22	5,203002E+22	1,471926E+23	1,040598E+23	2,512523E+23
621	7,359506E+22	7,359336E+22	5,202955E+22	5,202883E+22	1,471884E+23	1,040584E+23	2,512468E+23
622	7,359370E+22	7,359528E+22	5,202977E+22	5,202840E+22	1,471890E+23	1,040582E+23	2,512471E+23
623	7,359602E+22	7,359589E+22	5,202856E+22	5,202941E+22	1,471919E+23	1,040580E+23	2,512499E+23
624	7,359353E+22	7,359364E+22	5,202809E+22	5,202785E+22	1,471872E+23	1,040559E+23	2,512431E+23
625	7,359424E+22	7,359635E+22	5,202792E+22	5,202774E+22	1,471906E+23	1,040557E+23	2,512463E+23
626	7,359662E+22	7,359438E+22	5,202691E+22	5,202761E+22	1,471910E+23	1,040545E+23	2,512455E+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	7,359411E+22	7,359393E+22	5,202719E+22	5,202595E+22	1,471880E+23	1,040531E+23	2,512412E+23
628	7,359605E+22	7,359700E+22	5,202703E+22	5,202712E+22	1,471930E+23	1,040542E+23	2,512472E+23
629	7,359584E+22	7,359447E+22	5,202667E+22	5,202690E+22	1,471903E+23	1,040536E+23	2,512439E+23
630	7,359326E+22	7,359568E+22	5,202783E+22	5,202699E+22	1,471889E+23	1,040548E+23	2,512438E+23
631	7,359548E+22	7,359669E+22	5,202800E+22	5,202888E+22	1,471922E+23	1,040569E+23	2,512491E+23
632	7,359411E+22	7,359326E+22	5,202867E+22	5,202818E+22	1,471874E+23	1,040569E+23	2,512442E+23
633	7,359380E+22	7,359515E+22	5,203000E+22	5,202893E+22	1,471889E+23	1,040589E+23	2,512479E+23
634	7,359641E+22	7,359414E+22	5,202949E+22	5,203062E+22	1,471905E+23	1,040601E+23	2,512507E+23
635	7,359347E+22	7,359305E+22	5,203025E+22	5,202996E+22	1,471865E+23	1,040602E+23	2,512467E+23
636	7,359419E+22	7,359633E+22	5,203081E+22	5,203139E+22	1,471905E+23	1,040622E+23	2,512527E+23
637	7,359527E+22	7,359391E+22	5,203050E+22	5,203116E+22	1,471892E+23	1,040617E+23	2,512508E+23
638	7,359288E+22	7,359401E+22	5,203167E+22	5,203020E+22	1,471869E+23	1,040619E+23	2,512488E+23
639	7,359504E+22	7,359574E+22	5,203146E+22	5,203142E+22	1,471908E+23	1,040629E+23	2,512537E+23
640	7,359432E+22	7,359291E+22	5,203093E+22	5,203018E+22	1,471872E+23	1,040611E+23	2,512483E+23
641	7,359260E+22	7,359498E+22	5,203116E+22	5,202999E+22	1,471876E+23	1,040611E+23	2,512487E+23
642	7,359532E+22	7,359498E+22	5,202947E+22	5,203102E+22	1,471903E+23	1,040605E+23	2,512508E+23
643	7,359338E+22	7,359287E+22	5,202929E+22	5,202891E+22	1,471862E+23	1,040582E+23	2,512444E+23
644	7,359394E+22	7,359566E+22	5,202936E+22	5,202893E+22	1,471896E+23	1,040583E+23	2,512479E+23
645	7,359634E+22	7,359406E+22	5,202805E+22	5,202851E+22	1,471904E+23	1,040566E+23	2,512470E+23
646	7,359382E+22	7,359386E+22	5,202856E+22	5,202749E+22	1,471877E+23	1,040560E+23	2,512437E+23
647	7,359470E+22	7,359660E+22	5,202852E+22	5,202908E+22	1,471913E+23	1,040576E+23	2,512489E+23
648	7,359467E+22	7,359404E+22	5,202833E+22	5,202851E+22	1,471887E+23	1,040568E+23	2,512456E+23
649	7,359244E+22	7,359469E+22	5,202987E+22	5,202848E+22	1,471871E+23	1,040584E+23	2,512455E+23
650	7,359530E+22	7,359495E+22	5,202951E+22	5,203045E+22	1,471902E+23	1,040600E+23	2,512502E+23
651	7,359421E+22	7,359213E+22	5,203021E+22	5,202962E+22	1,471863E+23	1,040598E+23	2,512462E+23
652	7,359312E+22	7,359471E+22	5,203147E+22	5,203085E+22	1,471878E+23	1,040623E+23	2,512501E+23
653	7,359546E+22	7,359432E+22	5,203064E+22	5,203216E+22	1,471898E+23	1,040628E+23	2,512526E+23
654	7,359293E+22	7,359304E+22	5,203185E+22	5,203154E+22	1,471860E+23	1,040634E+23	2,512494E+23
655	7,359319E+22	7,359560E+22	5,203280E+22	5,203289E+22	1,471888E+23	1,040657E+23	2,512545E+23
656	7,359477E+22	7,359329E+22	5,203245E+22	5,203227E+22	1,471881E+23	1,040647E+23	2,512528E+23
657	7,359229E+22	7,359316E+22	5,203363E+22	5,203160E+22	1,471855E+23	1,040652E+23	2,512507E+23
658	7,359429E+22	7,359472E+22	5,203257E+22	5,203330E+22	1,471890E+23	1,040659E+23	2,512549E+23
659	7,359366E+22	7,359236E+22	5,203191E+22	5,203189E+22	1,471860E+23	1,040638E+23	2,512498E+23
660	7,359165E+22	7,359433E+22	5,203229E+22	5,203168E+22	1,471860E+23	1,040640E+23	2,512500E+23
661	7,359502E+22	7,359442E+22	5,203040E+22	5,203184E+22	1,471894E+23	1,040622E+23	2,512517E+23
662	7,359382E+22	7,359221E+22	5,203043E+22	5,202971E+22	1,471860E+23	1,040601E+23	2,512462E+23
663	7,359344E+22	7,359501E+22	5,203077E+22	5,203007E+22	1,471884E+23	1,040608E+23	2,512493E+23
664	7,359562E+22	7,359420E+22	5,202937E+22	5,202964E+22	1,471898E+23	1,040590E+23	2,512488E+23
665	7,359258E+22	7,359371E+22	5,203030E+22	5,202903E+22	1,471863E+23	1,040593E+23	2,512456E+23
666	7,359358E+22	7,359563E+22	5,203006E+22	5,203084E+22	1,471892E+23	1,040609E+23	2,512501E+23
667	7,359423E+22	7,359291E+22	5,203013E+22	5,202999E+22	1,471871E+23	1,040601E+23	2,512473E+23
668	7,359193E+22	7,359347E+22	5,203170E+22	5,203025E+22	1,471854E+23	1,040620E+23	2,512474E+23
669	7,359502E+22	7,359415E+22	5,203082E+22	5,203195E+22	1,471892E+23	1,040628E+23	2,512519E+23
670	7,359405E+22	7,359188E+22	5,203145E+22	5,203153E+22	1,471859E+23	1,040630E+23	2,512489E+23
671	7,359201E+22	7,359446E+22	5,203293E+22	5,203289E+22	1,471865E+23	1,040658E+23	2,512523E+23
672	7,359465E+22	7,359420E+22	5,203234E+22	5,203354E+22	1,471888E+23	1,040659E+23	2,512547E+23
673	7,359233E+22	7,359240E+22	5,203406E+22	5,203275E+22	1,471847E+23	1,040668E+23	2,512515E+23
674	7,359277E+22	7,359429E+22	5,203450E+22	5,203426E+22	1,471871E+23	1,040688E+23	2,512558E+23
675	7,359441E+22	7,359239E+22	5,203408E+22	5,203370E+22	1,471868E+23	1,040678E+23	2,512546E+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	7,359122E+22	7,359267E+22	5,203497E+22	5,203357E+22	1,471839E+23	1,040685E+23	2,512524E+23
677	7,359326E+22	7,359436E+22	5,203339E+22	5,203478E+22	1,471876E+23	1,040682E+23	2,512558E+23
678	7,359338E+22	7,359195E+22	5,203294E+22	5,203328E+22	1,471853E+23	1,040662E+23	2,512516E+23
679	7,359120E+22	7,359348E+22	5,203354E+22	5,203280E+22	1,471847E+23	1,040663E+23	2,512510E+23
680	7,359494E+22	7,359388E+22	5,203176E+22	5,203247E+22	1,471888E+23	1,040642E+23	2,512531E+23
681	7,359353E+22	7,359183E+22	5,203208E+22	5,203070E+22	1,471854E+23	1,040628E+23	2,512481E+23
682	7,359260E+22	7,359440E+22	5,203190E+22	5,203161E+22	1,471870E+23	1,040635E+23	2,512505E+23
683	7,359467E+22	7,359381E+22	5,203077E+22	5,203123E+22	1,471885E+23	1,040620E+23	2,512505E+23
684	7,359143E+22	7,359292E+22	5,203193E+22	5,203085E+22	1,471843E+23	1,040628E+23	2,512471E+23
685	7,359298E+22	7,359455E+22	5,203146E+22	5,203208E+22	1,471875E+23	1,040635E+23	2,512511E+23
686	7,359442E+22	7,359196E+22	5,203155E+22	5,203150E+22	1,471864E+23	1,040630E+23	2,512494E+23
687	7,359137E+22	7,359266E+22	5,203317E+22	5,203206E+22	1,471840E+23	1,040652E+23	2,512493E+23
688	7,359436E+22	7,359422E+22	5,203224E+22	5,203356E+22	1,471886E+23	1,040658E+23	2,512544E+23
689	7,359317E+22	7,359192E+22	5,203332E+22	5,203320E+22	1,471851E+23	1,040665E+23	2,512516E+23
690	7,359115E+22	7,359376E+22	5,203468E+22	5,203455E+22	1,471849E+23	1,040692E+23	2,512541E+23
691	7,359428E+22	7,359341E+22	5,203442E+22	5,203488E+22	1,471877E+23	1,040693E+23	2,512570E+23
692	7,359163E+22	7,359140E+22	5,203611E+22	5,203450E+22	1,471830E+23	1,040706E+23	2,512536E+23
693	7,359206E+22	7,359351E+22	5,203589E+22	5,203581E+22	1,471856E+23	1,040717E+23	2,512573E+23
694	7,359391E+22	7,359195E+22	5,203508E+22	5,203563E+22	1,471859E+23	1,040707E+23	2,512566E+23
695	7,359005E+22	7,359200E+22	5,203602E+22	5,203544E+22	1,471820E+23	1,040715E+23	2,512535E+23
696	7,359282E+22	7,359386E+22	5,203452E+22	5,203576E+22	1,471867E+23	1,040703E+23	2,512570E+23
697	7,359335E+22	7,359121E+22	5,203445E+22	5,203393E+22	1,471846E+23	1,040684E+23	2,512529E+23
698	7,359119E+22	7,359248E+22	5,203470E+22	5,203363E+22	1,471837E+23	1,040683E+23	2,512520E+23
699	7,359473E+22	7,359351E+22	5,203308E+22	5,203341E+22	1,471882E+23	1,040665E+23	2,512547E+23
700	7,359229E+22	7,359179E+22	5,203348E+22	5,203237E+22	1,471841E+23	1,040659E+23	2,512499E+23
701	7,359124E+22	7,359416E+22	5,203309E+22	5,203304E+22	1,471854E+23	1,040661E+23	2,512515E+23
702	7,359399E+22	7,359324E+22	5,203220E+22	5,203289E+22	1,471872E+23	1,040651E+23	2,512523E+23
703	7,359065E+22	7,359178E+22	5,203360E+22	5,203254E+22	1,471824E+23	1,040661E+23	2,512486E+23
704	7,359284E+22	7,359363E+22	5,203306E+22	5,203342E+22	1,471865E+23	1,040665E+23	2,512529E+23
705	7,359419E+22	7,359141E+22	5,203326E+22	5,203314E+22	1,471856E+23	1,040664E+23	2,512520E+23
706	7,359074E+22	7,359214E+22	5,203433E+22	5,203405E+22	1,471829E+23	1,040684E+23	2,512513E+23
707	7,359369E+22	7,359391E+22	5,203387E+22	5,203525E+22	1,471876E+23	1,040691E+23	2,512567E+23
708	7,359230E+22	7,359140E+22	5,203532E+22	5,203493E+22	1,471837E+23	1,040702E+23	2,512539E+23
709	7,359062E+22	7,359277E+22	5,203641E+22	5,203567E+22	1,471834E+23	1,040721E+23	2,512555E+23
710	7,359411E+22	7,359262E+22	5,203606E+22	5,203640E+22	1,471867E+23	1,040725E+23	2,512592E+23
711	7,359066E+22	7,359063E+22	5,203761E+22	5,203636E+22	1,471813E+23	1,040740E+23	2,512553E+23
712	7,359104E+22	7,359318E+22	5,203715E+22	5,203737E+22	1,471842E+23	1,040745E+23	2,512587E+23
713	7,359306E+22	7,359163E+22	5,203660E+22	5,203713E+22	1,471847E+23	1,040737E+23	2,512584E+23
714	7,358957E+22	7,359103E+22	5,203715E+22	5,203674E+22	1,471806E+23	1,040739E+23	2,512545E+23
715	7,359288E+22	7,359301E+22	5,203600E+22	5,203660E+22	1,471859E+23	1,040726E+23	2,512585E+23
716	7,359301E+22	7,359064E+22	5,203594E+22	5,203509E+22	1,471836E+23	1,040710E+23	2,512547E+23
717	7,359054E+22	7,359212E+22	5,203574E+22	5,203471E+22	1,471827E+23	1,040705E+23	2,512531E+23
718	7,359390E+22	7,359359E+22	5,203406E+22	5,203508E+22	1,471875E+23	1,040691E+23	2,512566E+23
719	7,359081E+22	7,359129E+22	5,203482E+22	5,203425E+22	1,471821E+23	1,040691E+23	2,512512E+23
720	7,359045E+22	7,359339E+22	5,203465E+22	5,203431E+22	1,471838E+23	1,040690E+23	2,512528E+23
721	7,359377E+22	7,359219E+22	5,203403E+22	5,203411E+22	1,471860E+23	1,040681E+23	2,512541E+23
722	7,359056E+22	7,359050E+22	5,203486E+22	5,203405E+22	1,471811E+23	1,040689E+23	2,512500E+23
723	7,359278E+22	7,359303E+22	5,203447E+22	5,203493E+22	1,471858E+23	1,040694E+23	2,512552E+23
724	7,359325E+22	7,359134E+22	5,203476E+22	5,203505E+22	1,471846E+23	1,040698E+23	2,512544E+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	7,358982E+22	7,359193E+22	5,203581E+22	5,203550E+22	1,471818E+23	1,040713E+23	2,512531E+23
726	7,359322E+22	7,359355E+22	5,203560E+22	5,203677E+22	1,471868E+23	1,040724E+23	2,512591E+23
727	7,359135E+22	7,359046E+22	5,203743E+22	5,203660E+22	1,471818E+23	1,040740E+23	2,512558E+23
728	7,359002E+22	7,359198E+22	5,203834E+22	5,203712E+22	1,471820E+23	1,040755E+23	2,512575E+23
729	7,359333E+22	7,359198E+22	5,203787E+22	5,203823E+22	1,471853E+23	1,040761E+23	2,512614E+23
730	7,358968E+22	7,358982E+22	5,203867E+22	5,203847E+22	1,471795E+23	1,040771E+23	2,512566E+23
731	7,359055E+22	7,359238E+22	5,203845E+22	5,203892E+22	1,471829E+23	1,040774E+23	2,512603E+23
732	7,359254E+22	7,359089E+22	5,203804E+22	5,203844E+22	1,471834E+23	1,040765E+23	2,512599E+23
733	7,358954E+22	7,359022E+22	5,203826E+22	5,203739E+22	1,471798E+23	1,040757E+23	2,512554E+23
734	7,359292E+22	7,359268E+22	5,203710E+22	5,203759E+22	1,471856E+23	1,040747E+23	2,512603E+23
735	7,359193E+22	7,359052E+22	5,203724E+22	5,203656E+22	1,471824E+23	1,040738E+23	2,512562E+23
736	7,358932E+22	7,359217E+22	5,203705E+22	5,203602E+22	1,471815E+23	1,040731E+23	2,512546E+23
737	7,359274E+22	7,359327E+22	5,203579E+22	5,203653E+22	1,471860E+23	1,040723E+23	2,512583E+23
738	7,359014E+22	7,359008E+22	5,203621E+22	5,203581E+22	1,471802E+23	1,040720E+23	2,512522E+23
739	7,359050E+22	7,359198E+22	5,203632E+22	5,203559E+22	1,471825E+23	1,040719E+23	2,512544E+23
740	7,359356E+22	7,359129E+22	5,203561E+22	5,203577E+22	1,471848E+23	1,040714E+23	2,512562E+23
741	7,359025E+22	7,358992E+22	5,203582E+22	5,203551E+22	1,471802E+23	1,040713E+23	2,512515E+23
742	7,359222E+22	7,359309E+22	5,203550E+22	5,203673E+22	1,471853E+23	1,040722E+23	2,512575E+23
743	7,359206E+22	7,359109E+22	5,203638E+22	5,203681E+22	1,471832E+23	1,040732E+23	2,512563E+23
744	7,358908E+22	7,359131E+22	5,203779E+22	5,203666E+22	1,471804E+23	1,040744E+23	2,512548E+23
745	7,359264E+22	7,359278E+22	5,203791E+22	5,203808E+22	1,471854E+23	1,040760E+23	2,512614E+23
746	7,359071E+22	7,358930E+22	5,203911E+22	5,203844E+22	1,471800E+23	1,040776E+23	2,512576E+23
747	7,358937E+22	7,359113E+22	5,204001E+22	5,203902E+22	1,471805E+23	1,040790E+23	2,512595E+23
748	7,359213E+22	7,359157E+22	5,203936E+22	5,204033E+22	1,471837E+23	1,040797E+23	2,512634E+23
749	7,358898E+22	7,358915E+22	5,203976E+22	5,203990E+22	1,471781E+23	1,040797E+23	2,512578E+23
750	7,359050E+22	7,359187E+22	5,203964E+22	5,204018E+22	1,471824E+23	1,040798E+23	2,512622E+23
751	7,359210E+22	7,359024E+22	5,203957E+22	5,203962E+22	1,471823E+23	1,040792E+23	2,512615E+23
752	7,358922E+22	7,358988E+22	5,203976E+22	5,203830E+22	1,471791E+23	1,040781E+23	2,512572E+23
753	7,359208E+22	7,359265E+22	5,203866E+22	5,203891E+22	1,471847E+23	1,040776E+23	2,512623E+23
754	7,359069E+22	7,359000E+22	5,203836E+22	5,203835E+22	1,471807E+23	1,040767E+23	2,512574E+23
755	7,358868E+22	7,359117E+22	5,203856E+22	5,203747E+22	1,471798E+23	1,040760E+23	2,512559E+23
756	7,359209E+22	7,359210E+22	5,203737E+22	5,203790E+22	1,471842E+23	1,040753E+23	2,512595E+23
757	7,359016E+22	7,358884E+22	5,203727E+22	5,203682E+22	1,471790E+23	1,040741E+23	2,512531E+23
758	7,359072E+22	7,359140E+22	5,203719E+22	5,203693E+22	1,471821E+23	1,040741E+23	2,512562E+23
759	7,359260E+22	7,359112E+22	5,203681E+22	5,203746E+22	1,471837E+23	1,040743E+23	2,512580E+23
760	7,358928E+22	7,359014E+22	5,203727E+22	5,203687E+22	1,471794E+23	1,040741E+23	2,512535E+23
761	7,359120E+22	7,359299E+22	5,203756E+22	5,203811E+22	1,471842E+23	1,040757E+23	2,512599E+23
762	7,359122E+22	7,359017E+22	5,203834E+22	5,203848E+22	1,471814E+23	1,040768E+23	2,512582E+23
763	7,358881E+22	7,359001E+22	5,204002E+22	5,203825E+22	1,471788E+23	1,040783E+23	2,512571E+23
764	7,359176E+22	7,359181E+22	5,203991E+22	5,204012E+22	1,471836E+23	1,040800E+23	2,512636E+23
765	7,358994E+22	7,358850E+22	5,204027E+22	5,204045E+22	1,471784E+23	1,040807E+23	2,512592E+23
766	7,358877E+22	7,359069E+22	5,204097E+22	5,204109E+22	1,471795E+23	1,040821E+23	2,512615E+23
767	7,359124E+22	7,359090E+22	5,204080E+22	5,204205E+22	1,471821E+23	1,040828E+23	2,512650E+23
768	7,358887E+22	7,358852E+22	5,204128E+22	5,204069E+22	1,471774E+23	1,040820E+23	2,512594E+23
769	7,359044E+22	7,359142E+22	5,204139E+22	5,204096E+22	1,471819E+23	1,040824E+23	2,512642E+23
770	7,359162E+22	7,358971E+22	5,204087E+22	5,204090E+22	1,471813E+23	1,040818E+23	2,512631E+23
771	7,358852E+22	7,358944E+22	5,204126E+22	5,203969E+22	1,471780E+23	1,040809E+23	2,512589E+23
772	7,359061E+22	7,359242E+22	5,204020E+22	5,204056E+22	1,471830E+23	1,040808E+23	2,512638E+23
773	7,358987E+22	7,358908E+22	5,203946E+22	5,203964E+22	1,471789E+23	1,040791E+23	2,512580E+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	7,358847E+22	7,359018E+22	5,203966E+22	5,203880E+22	1,471787E+23	1,040785E+23	2,512571E+23
775	7,359167E+22	7,359110E+22	5,203874E+22	5,203932E+22	1,471828E+23	1,040781E+23	2,512608E+23
776	7,358996E+22	7,358834E+22	5,203844E+22	5,203795E+22	1,471783E+23	1,040764E+23	2,512547E+23
777	7,359008E+22	7,359153E+22	5,203852E+22	5,203841E+22	1,471816E+23	1,040769E+23	2,512585E+23
778	7,359158E+22	7,359087E+22	5,203803E+22	5,203924E+22	1,471824E+23	1,040773E+23	2,512597E+23
779	7,358873E+22	7,358933E+22	5,203925E+22	5,203831E+22	1,471781E+23	1,040776E+23	2,512556E+23
780	7,359034E+22	7,359210E+22	5,203979E+22	5,203957E+22	1,471824E+23	1,040794E+23	2,512618E+23
781	7,359084E+22	7,358894E+22	5,204001E+22	5,203993E+22	1,471798E+23	1,040799E+23	2,512597E+23
782	7,358848E+22	7,358926E+22	5,204141E+22	5,204020E+22	1,471777E+23	1,040816E+23	2,512593E+23
783	7,359054E+22	7,359130E+22	5,204141E+22	5,204232E+22	1,471818E+23	1,040837E+23	2,512656E+23
784	7,358909E+22	7,358826E+22	5,204170E+22	5,204206E+22	1,471773E+23	1,040838E+23	2,512611E+23
785	7,358829E+22	7,359037E+22	5,204269E+22	5,204247E+22	1,471787E+23	1,040852E+23	2,512638E+23
786	7,359088E+22	7,359005E+22	5,204241E+22	5,204341E+22	1,471809E+23	1,040858E+23	2,512667E+23
787	7,358904E+22	7,358762E+22	5,204318E+22	5,204181E+22	1,471767E+23	1,040850E+23	2,512616E+23
788	7,358964E+22	7,359095E+22	5,204310E+22	5,204234E+22	1,471806E+23	1,040854E+23	2,512660E+23
789	7,359064E+22	7,358932E+22	5,204184E+22	5,204242E+22	1,471800E+23	1,040843E+23	2,512642E+23
790	7,358769E+22	7,358904E+22	5,204210E+22	5,204136E+22	1,471767E+23	1,040835E+23	2,512602E+23
791	7,358942E+22	7,359144E+22	5,204153E+22	5,204204E+22	1,471809E+23	1,040836E+23	2,512644E+23
792	7,358959E+22	7,358816E+22	5,204075E+22	5,204047E+22	1,471778E+23	1,040812E+23	2,512590E+23
793	7,358851E+22	7,358951E+22	5,204095E+22	5,203979E+22	1,471780E+23	1,040807E+23	2,512588E+23
794	7,359125E+22	7,359049E+22	5,203978E+22	5,204077E+22	1,471817E+23	1,040805E+23	2,512623E+23
795	7,358955E+22	7,358807E+22	5,203981E+22	5,203935E+22	1,471776E+23	1,040792E+23	2,512568E+23
796	7,358885E+22	7,359145E+22	5,204024E+22	5,203987E+22	1,471803E+23	1,040801E+23	2,512604E+23
797	7,359085E+22	7,359021E+22	5,203960E+22	5,204056E+22	1,471811E+23	1,040802E+23	2,512612E+23
798	7,358845E+22	7,358846E+22	5,204097E+22	5,203988E+22	1,471769E+23	1,040808E+23	2,512578E+23
799	7,358948E+22	7,359104E+22	5,204183E+22	5,204145E+22	1,471805E+23	1,040833E+23	2,512638E+23
800	7,359019E+22	7,358829E+22	5,204166E+22	5,204171E+22	1,471785E+23	1,040834E+23	2,512619E+23
801	7,358766E+22	7,358901E+22	5,204289E+22	5,204228E+22	1,471767E+23	1,040852E+23	2,512618E+23
802	7,358967E+22	7,359058E+22	5,204275E+22	5,204439E+22	1,471802E+23	1,040871E+23	2,512674E+23
803	7,358904E+22	7,358721E+22	5,204349E+22	5,204340E+22	1,471762E+23	1,040869E+23	2,512631E+23
804	7,358795E+22	7,358969E+22	5,204461E+22	5,204356E+22	1,471776E+23	1,040882E+23	2,512658E+23
805	7,359078E+22	7,358929E+22	5,204369E+22	5,204444E+22	1,471801E+23	1,040881E+23	2,512682E+23
806	7,358851E+22	7,358738E+22	5,204433E+22	5,204330E+22	1,471759E+23	1,040876E+23	2,512635E+23
807	7,358800E+22	7,359082E+22	5,204451E+22	5,204409E+22	1,471788E+23	1,040886E+23	2,512674E+23
808	7,358938E+22	7,358900E+22	5,204316E+22	5,204371E+22	1,471784E+23	1,040869E+23	2,512653E+23
809	7,358701E+22	7,358842E+22	5,204357E+22	5,204263E+22	1,471754E+23	1,040862E+23	2,512616E+23
810	7,358907E+22	7,359017E+22	5,204281E+22	5,204337E+22	1,471792E+23	1,040862E+23	2,512654E+23
811	7,358990E+22	7,358701E+22	5,204219E+22	5,204160E+22	1,471769E+23	1,040838E+23	2,512607E+23
812	7,358799E+22	7,358921E+22	5,204224E+22	5,204113E+22	1,471772E+23	1,040834E+23	2,512606E+23
813	7,359060E+22	7,359026E+22	5,204059E+22	5,204221E+22	1,471809E+23	1,040828E+23	2,512637E+23
814	7,358898E+22	7,358788E+22	5,204095E+22	5,204088E+22	1,471769E+23	1,040818E+23	2,512587E+23
815	7,358779E+22	7,359071E+22	5,204212E+22	5,204128E+22	1,471785E+23	1,040834E+23	2,512619E+23
816	7,359034E+22	7,358944E+22	5,204148E+22	5,204166E+22	1,471798E+23	1,040831E+23	2,512629E+23
817	7,358809E+22	7,358783E+22	5,204278E+22	5,204149E+22	1,471759E+23	1,040843E+23	2,512602E+23
818	7,358853E+22	7,359019E+22	5,204336E+22	5,204361E+22	1,471787E+23	1,040870E+23	2,512657E+23
819	7,358959E+22	7,358769E+22	5,204334E+22	5,204373E+22	1,471773E+23	1,040871E+23	2,512644E+23
820	7,358672E+22	7,358855E+22	5,204460E+22	5,204401E+22	1,471753E+23	1,040886E+23	2,512639E+23
821	7,358931E+22	7,358970E+22	5,204418E+22	5,204578E+22	1,471790E+23	1,040900E+23	2,512690E+23
822	7,358912E+22	7,358659E+22	5,204496E+22	5,204471E+22	1,471757E+23	1,040897E+23	2,512654E+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							
823	7,358718E+22	7,358901E+22	5,204640E+22	5,204500E+22	1,471762E+23	1,040914E+23	2,512676E+23
824	7,358986E+22	7,358916E+22	5,204514E+22	5,204580E+22	1,471790E+23	1,040909E+23	2,512700E+23
825	7,358740E+22	7,358737E+22	5,204562E+22	5,204505E+22	1,471748E+23	1,040907E+23	2,512654E+23
826	7,358673E+22	7,358988E+22	5,204582E+22	5,204583E+22	1,471766E+23	1,040917E+23	2,512683E+23
827	7,358919E+22	7,358765E+22	5,204474E+22	5,204487E+22	1,471768E+23	1,040896E+23	2,512665E+23
828	7,358680E+22	7,358738E+22	5,204500E+22	5,204357E+22	1,471742E+23	1,040886E+23	2,512628E+23
829	7,358922E+22	7,358922E+22	5,204362E+22	5,204441E+22	1,471784E+23	1,040880E+23	2,512665E+23
830	7,358975E+22	7,358691E+22	5,204293E+22	5,204291E+22	1,471767E+23	1,040858E+23	2,512625E+23
831	7,358676E+22	7,358929E+22	5,204354E+22	5,204261E+22	1,471761E+23	1,040862E+23	2,512622E+23
832	7,358959E+22	7,359027E+22	5,204210E+22	5,204329E+22	1,471799E+23	1,040854E+23	2,512652E+23
833	7,358827E+22	7,358759E+22	5,204282E+22	5,204227E+22	1,471759E+23	1,040851E+23	2,512610E+23
834	7,358704E+22	7,358955E+22	5,204407E+22	5,204302E+22	1,471766E+23	1,040871E+23	2,512637E+23
835	7,359009E+22	7,358816E+22	5,204347E+22	5,204344E+22	1,471782E+23	1,040869E+23	2,512651E+23
836	7,358715E+22	7,358727E+22	5,204443E+22	5,204353E+22	1,471744E+23	1,040880E+23	2,512624E+23
837	7,358787E+22	7,358943E+22	5,204432E+22	5,204564E+22	1,471773E+23	1,040900E+23	2,512673E+23
838	7,358918E+22	7,358705E+22	5,204453E+22	5,204548E+22	1,471762E+23	1,040900E+23	2,512662E+23
839	7,358609E+22	7,358778E+22	5,204640E+22	5,204540E+22	1,471739E+23	1,040918E+23	2,512657E+23
840	7,358907E+22	7,358913E+22	5,204590E+22	5,204666E+22	1,471782E+23	1,040926E+23	2,512708E+23
841	7,358872E+22	7,358648E+22	5,204666E+22	5,204608E+22	1,471752E+23	1,040927E+23	2,512679E+23
842	7,358596E+22	7,358857E+22	5,204796E+22	5,204681E+22	1,471745E+23	1,040948E+23	2,512693E+23
843	7,358884E+22	7,358860E+22	5,204684E+22	5,204744E+22	1,471774E+23	1,040943E+23	2,512717E+23
844	7,358623E+22	7,358677E+22	5,204731E+22	5,204651E+22	1,471730E+23	1,040938E+23	2,512668E+23
845	7,358642E+22	7,358854E+22	5,204698E+22	5,204712E+22	1,471750E+23	1,040941E+23	2,512691E+23
846	7,358941E+22	7,358667E+22	5,204583E+22	5,204609E+22	1,471761E+23	1,040919E+23	2,512680E+23
847	7,358642E+22	7,358672E+22	5,204621E+22	5,204489E+22	1,471731E+23	1,040911E+23	2,512642E+23
848	7,358860E+22	7,358930E+22	5,204454E+22	5,204556E+22	1,471779E+23	1,040901E+23	2,512680E+23
849	7,358896E+22	7,358734E+22	5,204398E+22	5,204439E+22	1,471763E+23	1,040884E+23	2,512647E+23
850	7,358565E+22	7,358862E+22	5,204509E+22	5,204409E+22	1,471743E+23	1,040892E+23	2,512635E+23
851	7,358920E+22	7,358924E+22	5,204413E+22	5,204443E+22	1,471784E+23	1,040886E+23	2,512670E+23
852	7,358772E+22	7,358666E+22	5,204474E+22	5,204357E+22	1,471744E+23	1,040883E+23	2,512627E+23
853	7,358659E+22	7,358831E+22	5,204535E+22	5,204477E+22	1,471749E+23	1,040901E+23	2,512650E+23
854	7,358951E+22	7,358767E+22	5,204458E+22	5,204543E+22	1,471772E+23	1,040900E+23	2,512672E+23
855	7,358597E+22	7,358680E+22	5,204585E+22	5,204548E+22	1,471728E+23	1,040913E+23	2,512641E+23
856	7,358718E+22	7,358904E+22	5,204585E+22	5,204696E+22	1,471762E+23	1,040928E+23	2,512690E+23
857	7,358897E+22	7,358680E+22	5,204625E+22	5,204684E+22	1,471758E+23	1,040931E+23	2,512689E+23
858	7,358560E+22	7,358685E+22	5,204840E+22	5,204692E+22	1,471725E+23	1,040953E+23	2,512678E+23
859	7,358870E+22	7,358839E+22	5,204799E+22	5,204816E+22	1,471771E+23	1,040962E+23	2,512732E+23
860	7,358747E+22	7,358630E+22	5,204845E+22	5,204788E+22	1,471738E+23	1,040963E+23	2,512701E+23
861	7,358489E+22	7,358774E+22	5,204912E+22	5,204875E+22	1,471726E+23	1,040979E+23	2,512705E+23
862	7,358824E+22	7,358765E+22	5,204807E+22	5,204903E+22	1,471759E+23	1,040971E+23	2,512730E+23
863	7,358570E+22	7,358565E+22	5,204876E+22	5,204779E+22	1,471713E+23	1,040966E+23	2,512679E+23
864	7,358644E+22	7,358776E+22	5,204807E+22	5,204794E+22	1,471742E+23	1,040960E+23	2,512702E+23
865	7,358926E+22	7,358671E+22	5,204679E+22	5,204732E+22	1,471760E+23	1,040941E+23	2,512701E+23
866	7,358552E+22	7,358663E+22	5,204735E+22	5,204640E+22	1,471722E+23	1,040937E+23	2,512659E+23
867	7,358782E+22	7,358905E+22	5,204607E+22	5,204673E+22	1,471769E+23	1,040928E+23	2,512697E+23
868	7,358785E+22	7,358709E+22	5,204582E+22	5,204552E+22	1,471749E+23	1,040913E+23	2,512663E+23
869	7,358520E+22	7,358739E+22	5,204657E+22	5,204542E+22	1,471726E+23	1,040920E+23	2,512646E+23
870	7,358891E+22	7,358806E+22	5,204565E+22	5,204592E+22	1,471770E+23	1,040916E+23	2,512685E+23
871	7,358689E+22	7,358577E+22	5,204631E+22	5,204547E+22	1,471727E+23	1,040918E+23	2,512644E+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	7,358581E+22	7,358786E+22	5,204644E+22	5,204652E+22	1,471737E+23	1,040930E+23	2,512666E+23
873	7,358882E+22	7,358760E+22	5,204576E+22	5,204735E+22	1,471764E+23	1,040931E+23	2,512695E+23
874	7,358531E+22	7,358593E+22	5,204753E+22	5,204708E+22	1,471712E+23	1,040946E+23	2,512659E+23
875	7,358716E+22	7,358809E+22	5,204793E+22	5,204804E+22	1,471752E+23	1,040960E+23	2,512712E+23
876	7,358850E+22	7,358639E+22	5,204837E+22	5,204804E+22	1,471749E+23	1,040964E+23	2,512713E+23
877	7,358501E+22	7,358611E+22	5,204994E+22	5,204867E+22	1,471711E+23	1,040986E+23	2,512697E+23
878	7,358763E+22	7,358810E+22	5,204949E+22	5,205010E+22	1,471757E+23	1,040996E+23	2,512753E+23
879	7,358599E+22	7,358577E+22	5,205013E+22	5,204986E+22	1,471718E+23	1,041000E+23	2,512717E+23
880	7,358405E+22	7,358693E+22	5,205055E+22	5,205014E+22	1,471710E+23	1,041007E+23	2,512717E+23
881	7,358810E+22	7,358705E+22	5,204936E+22	5,205044E+22	1,471752E+23	1,040998E+23	2,512749E+23
882	7,358553E+22	7,358451E+22	5,205011E+22	5,204915E+22	1,471700E+23	1,040993E+23	2,512693E+23
883	7,358640E+22	7,358722E+22	5,204940E+22	5,204910E+22	1,471736E+23	1,040985E+23	2,512721E+23
884	7,358839E+22	7,358695E+22	5,204796E+22	5,204853E+22	1,471753E+23	1,040965E+23	2,512718E+23
885	7,358470E+22	7,358601E+22	5,204833E+22	5,204778E+22	1,471707E+23	1,040961E+23	2,512668E+23
886	7,358719E+22	7,358829E+22	5,204751E+22	5,204781E+22	1,471755E+23	1,040953E+23	2,512708E+23
887	7,358713E+22	7,358600E+22	5,204756E+22	5,204672E+22	1,471731E+23	1,040943E+23	2,512674E+23
888	7,358480E+22	7,358641E+22	5,204794E+22	5,204659E+22	1,471712E+23	1,040945E+23	2,512657E+23
889	7,358839E+22	7,358781E+22	5,204677E+22	5,204771E+22	1,471762E+23	1,040945E+23	2,512707E+23
890	7,358585E+22	7,358523E+22	5,204763E+22	5,204746E+22	1,471711E+23	1,040951E+23	2,512662E+23
891	7,358524E+22	7,358735E+22	5,204808E+22	5,204807E+22	1,471726E+23	1,040961E+23	2,512687E+23
892	7,358811E+22	7,358730E+22	5,204773E+22	5,204865E+22	1,471754E+23	1,040964E+23	2,512718E+23
893	7,358517E+22	7,358489E+22	5,204929E+22	5,204860E+22	1,471701E+23	1,040979E+23	2,512679E+23
894	7,358690E+22	7,358729E+22	5,204985E+22	5,204957E+22	1,471742E+23	1,040994E+23	2,512736E+23
895	7,358741E+22	7,358595E+22	5,205030E+22	5,205008E+22	1,471734E+23	1,041004E+23	2,512737E+23
896	7,358383E+22	7,358579E+22	5,205131E+22	5,205062E+22	1,471696E+23	1,041019E+23	2,512716E+23
897	7,358657E+22	7,358779E+22	5,205080E+22	5,205212E+22	1,471744E+23	1,041029E+23	2,512773E+23
898	7,358528E+22	7,358453E+22	5,205178E+22	5,205152E+22	1,471698E+23	1,041033E+23	2,512731E+23
899	7,358426E+22	7,358562E+22	5,205212E+22	5,205112E+22	1,471699E+23	1,041032E+23	2,512731E+23
900	7,358790E+22	7,358654E+22	5,205082E+22	5,205136E+22	1,471744E+23	1,041022E+23	2,512766E+23
901	7,358531E+22	7,358400E+22	5,205094E+22	5,205043E+22	1,471693E+23	1,041014E+23	2,512707E+23
902	7,358566E+22	7,358711E+22	5,205044E+22	5,205026E+22	1,471728E+23	1,041007E+23	2,512735E+23
903	7,358712E+22	7,358677E+22	5,204947E+22	5,204979E+22	1,471739E+23	1,040993E+23	2,512732E+23
904	7,358392E+22	7,358538E+22	5,204973E+22	5,204876E+22	1,471693E+23	1,040985E+23	2,512678E+23
905	7,358666E+22	7,358771E+22	5,204894E+22	5,204916E+22	1,471744E+23	1,040981E+23	2,512725E+23
906	7,358653E+22	7,358480E+22	5,204918E+22	5,204842E+22	1,471713E+23	1,040976E+23	2,512689E+23
907	7,358440E+22	7,358560E+22	5,204934E+22	5,204826E+22	1,471700E+23	1,040976E+23	2,512676E+23
908	7,358745E+22	7,358771E+22	5,204812E+22	5,204944E+22	1,471752E+23	1,040976E+23	2,512727E+23
909	7,358539E+22	7,358438E+22	5,204875E+22	5,204920E+22	1,471698E+23	1,040979E+23	2,512677E+23
910	7,358507E+22	7,358652E+22	5,204972E+22	5,204929E+22	1,471716E+23	1,040990E+23	2,512706E+23
911	7,358769E+22	7,358659E+22	5,204971E+22	5,205000E+22	1,471743E+23	1,040997E+23	2,512740E+23
912	7,358469E+22	7,358433E+22	5,205099E+22	5,205002E+22	1,471690E+23	1,041010E+23	2,512700E+23
913	7,358596E+22	7,358739E+22	5,205139E+22	5,205158E+22	1,471734E+23	1,041030E+23	2,512763E+23
914	7,358599E+22	7,358531E+22	5,205209E+22	5,205226E+22	1,471713E+23	1,041043E+23	2,512756E+23
915	7,358301E+22	7,358492E+22	5,205314E+22	5,205230E+22	1,471679E+23	1,041054E+23	2,512734E+23
916	7,358594E+22	7,358704E+22	5,205260E+22	5,205339E+22	1,471730E+23	1,041060E+23	2,512790E+23
917	7,358535E+22	7,358308E+22	5,205304E+22	5,205290E+22	1,471684E+23	1,041059E+23	2,512744E+23
918	7,358437E+22	7,358476E+22	5,205340E+22	5,205230E+22	1,471691E+23	1,041057E+23	2,512748E+23
919	7,358716E+22	7,358636E+22	5,205205E+22	5,205281E+22	1,471735E+23	1,041049E+23	2,512784E+23
920	7,358437E+22	7,358403E+22	5,205184E+22	5,205170E+22	1,471684E+23	1,041035E+23	2,512719E+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	7,358473E+22	7,358712E+22	5,205154E+22	5,205154E+22	1,471718E+23	1,041031E+23	2,512749E+23
922	7,358625E+22	7,358574E+22	5,205116E+22	5,205100E+22	1,471720E+23	1,041022E+23	2,512741E+23
923	7,358373E+22	7,358426E+22	5,205139E+22	5,204979E+22	1,471680E+23	1,041012E+23	2,512692E+23
924	7,358604E+22	7,358714E+22	5,205049E+22	5,205045E+22	1,471732E+23	1,041009E+23	2,512741E+23
925	7,358599E+22	7,358402E+22	5,205015E+22	5,205030E+22	1,471700E+23	1,041004E+23	2,512705E+23
926	7,358381E+22	7,358514E+22	5,205048E+22	5,204990E+22	1,471690E+23	1,041004E+23	2,512693E+23
927	7,358657E+22	7,358728E+22	5,204975E+22	5,205101E+22	1,471739E+23	1,041008E+23	2,512746E+23
928	7,358509E+22	7,358382E+22	5,205027E+22	5,205039E+22	1,471689E+23	1,041007E+23	2,512696E+23
929	7,358483E+22	7,358613E+22	5,205140E+22	5,205072E+22	1,471710E+23	1,041021E+23	2,512731E+23
930	7,358698E+22	7,358582E+22	5,205180E+22	5,205184E+22	1,471728E+23	1,041036E+23	2,512765E+23
931	7,358394E+22	7,358382E+22	5,205280E+22	5,205190E+22	1,471678E+23	1,041047E+23	2,512725E+23
932	7,358450E+22	7,358713E+22	5,205318E+22	5,205349E+22	1,471716E+23	1,041067E+23	2,512783E+23
933	7,358526E+22	7,358404E+22	5,205351E+22	5,205420E+22	1,471693E+23	1,041077E+23	2,512770E+23
934	7,358291E+22	7,358350E+22	5,205469E+22	5,205358E+22	1,471664E+23	1,041083E+23	2,512747E+23
935	7,358573E+22	7,358603E+22	5,205421E+22	5,205466E+22	1,471718E+23	1,041089E+23	2,512806E+23
936	7,358519E+22	7,358268E+22	5,205404E+22	5,205402E+22	1,471679E+23	1,041081E+23	2,512759E+23
937	7,358369E+22	7,358518E+22	5,205428E+22	5,205372E+22	1,471689E+23	1,041080E+23	2,512769E+23
938	7,358589E+22	7,358623E+22	5,205351E+22	5,205431E+22	1,471721E+23	1,041078E+23	2,512799E+23
939	7,358351E+22	7,358361E+22	5,205349E+22	5,205281E+22	1,471671E+23	1,041063E+23	2,512734E+23
940	7,358379E+22	7,358661E+22	5,205339E+22	5,205256E+22	1,471704E+23	1,041059E+23	2,512763E+23
941	7,358596E+22	7,358429E+22	5,205253E+22	5,205250E+22	1,471703E+23	1,041050E+23	2,512753E+23
942	7,358357E+22	7,358314E+22	5,205267E+22	5,205129E+22	1,471667E+23	1,041040E+23	2,512707E+23
943	7,358526E+22	7,358664E+22	5,205165E+22	5,205228E+22	1,471719E+23	1,041039E+23	2,512758E+23
944	7,358531E+22	7,358370E+22	5,205092E+22	5,205188E+22	1,471690E+23	1,041028E+23	2,512718E+23
945	7,358345E+22	7,358500E+22	5,205156E+22	5,205128E+22	1,471685E+23	1,041028E+23	2,512713E+23
946	7,358620E+22	7,358631E+22	5,205159E+22	5,205221E+22	1,471725E+23	1,041038E+23	2,512763E+23
947	7,358495E+22	7,358312E+22	5,205222E+22	5,205147E+22	1,471681E+23	1,041037E+23	2,512718E+23
948	7,358395E+22	7,358600E+22	5,205339E+22	5,205213E+22	1,471699E+23	1,041055E+23	2,512755E+23
949	7,358587E+22	7,358508E+22	5,205334E+22	5,205398E+22	1,471709E+23	1,041073E+23	2,512783E+23
950	7,358291E+22	7,358306E+22	5,205453E+22	5,205385E+22	1,471660E+23	1,041084E+23	2,512744E+23
951	7,358345E+22	7,358619E+22	5,205507E+22	5,205535E+22	1,471696E+23	1,041104E+23	2,512801E+23
952	7,358493E+22	7,358303E+22	5,205491E+22	5,205566E+22	1,471680E+23	1,041106E+23	2,512785E+23
953	7,358295E+22	7,358298E+22	5,205589E+22	5,205506E+22	1,471659E+23	1,041110E+23	2,512769E+23
954	7,358524E+22	7,358538E+22	5,205577E+22	5,205627E+22	1,471706E+23	1,041120E+23	2,512827E+23
955	7,358452E+22	7,358276E+22	5,205534E+22	5,205543E+22	1,471673E+23	1,041108E+23	2,512780E+23
956	7,358245E+22	7,358538E+22	5,205580E+22	5,205497E+22	1,471678E+23	1,041108E+23	2,512786E+23
957	7,358511E+22	7,358521E+22	5,205493E+22	5,205569E+22	1,471703E+23	1,041106E+23	2,512809E+23
958	7,358329E+22	7,358230E+22	5,205510E+22	5,205382E+22	1,471656E+23	1,041089E+23	2,512745E+23
959	7,358326E+22	7,358550E+22	5,205496E+22	5,205388E+22	1,471688E+23	1,041088E+23	2,512776E+23
960	7,358555E+22	7,358364E+22	5,205337E+22	5,205394E+22	1,471692E+23	1,041073E+23	2,512765E+23
961	7,358302E+22	7,358314E+22	5,205328E+22	5,205292E+22	1,471662E+23	1,041062E+23	2,512724E+23
962	7,358439E+22	7,358618E+22	5,205301E+22	5,205385E+22	1,471706E+23	1,041069E+23	2,512774E+23
963	7,358494E+22	7,358337E+22	5,205241E+22	5,205289E+22	1,471683E+23	1,041053E+23	2,512736E+23
964	7,358286E+22	7,358467E+22	5,205352E+22	5,205221E+22	1,471675E+23	1,041057E+23	2,512733E+23
965	7,358581E+22	7,358525E+22	5,205338E+22	5,205377E+22	1,471711E+23	1,041072E+23	2,512782E+23
966	7,358439E+22	7,358229E+22	5,205408E+22	5,205324E+22	1,471667E+23	1,041073E+23	2,512740E+23
967	7,358252E+22	7,358553E+22	5,205518E+22	5,205440E+22	1,471680E+23	1,041096E+23	2,512776E+23
968	7,358472E+22	7,358441E+22	5,205460E+22	5,205604E+22	1,471691E+23	1,041106E+23	2,512798E+23
969	7,358241E+22	7,358233E+22	5,205581E+22	5,205561E+22	1,471647E+23	1,041114E+23	2,512762E+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	7,358319E+22	7,358484E+22	5,205689E+22	5,205687E+22	1,471680E+23	1,041138E+23	2,512818E+23
971	7,358495E+22	7,358241E+22	5,205646E+22	5,205684E+22	1,471674E+23	1,041133E+23	2,512807E+23
972	7,358235E+22	7,358314E+22	5,205748E+22	5,205632E+22	1,471655E+23	1,041138E+23	2,512793E+23
973	7,358437E+22	7,358501E+22	5,205707E+22	5,205796E+22	1,471694E+23	1,041150E+23	2,512844E+23
974	7,358365E+22	7,358232E+22	5,205700E+22	5,205676E+22	1,471660E+23	1,041138E+23	2,512797E+23
975	7,358140E+22	7,358468E+22	5,205764E+22	5,205631E+22	1,471661E+23	1,041139E+23	2,512800E+23
976	7,358454E+22	7,358415E+22	5,205622E+22	5,205689E+22	1,471687E+23	1,041131E+23	2,512818E+23
977	7,358316E+22	7,358158E+22	5,205614E+22	5,205527E+22	1,471647E+23	1,041114E+23	2,512761E+23
978	7,358273E+22	7,358450E+22	5,205619E+22	5,205558E+22	1,471672E+23	1,041118E+23	2,512790E+23
979	7,358486E+22	7,358349E+22	5,205428E+22	5,205540E+22	1,471684E+23	1,041097E+23	2,512780E+23
980	7,358222E+22	7,358323E+22	5,205449E+22	5,205407E+22	1,471655E+23	1,041086E+23	2,512740E+23
981	7,358400E+22	7,358512E+22	5,205435E+22	5,205505E+22	1,471691E+23	1,041094E+23	2,512785E+23
982	7,358489E+22	7,358243E+22	5,205423E+22	5,205381E+22	1,471673E+23	1,041080E+23	2,512754E+23
983	7,358219E+22	7,358401E+22	5,205547E+22	5,205365E+22	1,471662E+23	1,041091E+23	2,512753E+23
984	7,358477E+22	7,358483E+22	5,205477E+22	5,205557E+22	1,471696E+23	1,041103E+23	2,512799E+23
985	7,358330E+22	7,358222E+22	5,205535E+22	5,205540E+22	1,471655E+23	1,041108E+23	2,512763E+23
986	7,358131E+22	7,358452E+22	5,205708E+22	5,205654E+22	1,471658E+23	1,041136E+23	2,512794E+23
987	7,358415E+22	7,358363E+22	5,205638E+22	5,205759E+22	1,471678E+23	1,041140E+23	2,512818E+23
988	7,358218E+22	7,358169E+22	5,205768E+22	5,205691E+22	1,471639E+23	1,041146E+23	2,512785E+23
989	7,358317E+22	7,358368E+22	5,205848E+22	5,205855E+22	1,471668E+23	1,041170E+23	2,512839E+23
990	7,358472E+22	7,358194E+22	5,205806E+22	5,205837E+22	1,471667E+23	1,041164E+23	2,512831E+23
991	7,358117E+22	7,358308E+22	5,205910E+22	5,205810E+22	1,471643E+23	1,041172E+23	2,512815E+23
992	7,358331E+22	7,358459E+22	5,205833E+22	5,205942E+22	1,471679E+23	1,041178E+23	2,512856E+23
993	7,358315E+22	7,358162E+22	5,205827E+22	5,205802E+22	1,471648E+23	1,041163E+23	2,512811E+23
994	7,358088E+22	7,358326E+22	5,205936E+22	5,205760E+22	1,471641E+23	1,041170E+23	2,512811E+23
995	7,358419E+22	7,358348E+22	5,205738E+22	5,205799E+22	1,471677E+23	1,041154E+23	2,512830E+23
996	7,358241E+22	7,358150E+22	5,205720E+22	5,205654E+22	1,471639E+23	1,041137E+23	2,512777E+23
997	7,358198E+22	7,358389E+22	5,205710E+22	5,205722E+22	1,471659E+23	1,041143E+23	2,512802E+23
998	7,358440E+22	7,358295E+22	5,20564E+22	5,205652E+22	1,471673E+23	1,041122E+23	2,512795E+23
999	7,358155E+22	7,358271E+22	5,205624E+22	5,205521E+22	1,471643E+23	1,041114E+23	2,512757E+23
1000	7,358359E+22	7,358435E+22	5,205578E+22	5,205615E+22	1,471679E+23	1,041119E+23	2,512799E+23
1001	7,358455E+22	7,358197E+22	5,20564E+22	5,205538E+22	1,471665E+23	1,041110E+23	2,512775E+23
1002	7,358115E+22	7,358323E+22	5,205728E+22	5,205577E+22	1,471644E+23	1,041131E+23	2,512774E+23
1003	7,358352E+22	7,358458E+22	5,205623E+22	5,205754E+22	1,471681E+23	1,041138E+23	2,512819E+23
1004	7,358233E+22	7,358177E+22	5,205709E+22	5,205714E+22	1,471641E+23	1,041142E+23	2,512783E+23
1005	7,358108E+22	7,358289E+22	5,205875E+22	5,205826E+22	1,471640E+23	1,041170E+23	2,512810E+23
1006	7,358438E+22	7,358237E+22	5,205824E+22	5,205886E+22	1,471668E+23	1,041171E+23	2,512839E+23
1007	7,358188E+22	7,358120E+22	5,205947E+22	5,205842E+22	1,471631E+23	1,041179E+23	2,512810E+23
1008	7,358242E+22	7,358348E+22	5,205968E+22	5,206014E+22	1,471659E+23	1,041198E+23	2,512857E+23
1009	7,358381E+22	7,358222E+22	5,205932E+22	5,206006E+22	1,471660E+23	1,041194E+23	2,512854E+23
1010	7,358000E+22	7,358237E+22	5,206099E+22	5,205974E+22	1,471624E+23	1,041207E+23	2,512831E+23
1011	7,358232E+22	7,358396E+22	5,206000E+22	5,206058E+22	1,471663E+23	1,041206E+23	2,512869E+23
1012	7,358260E+22	7,358097E+22	5,205993E+22	5,205920E+22	1,471636E+23	1,041191E+23	2,512827E+23
1013	7,358056E+22	7,358177E+22	5,206058E+22	5,205927E+22	1,471623E+23	1,041198E+23	2,512822E+23
1014	7,358382E+22	7,358277E+22	5,205851E+22	5,205949E+22	1,471666E+23	1,041180E+23	2,512846E+23
1015	7,358157E+22	7,358132E+22	5,205826E+22	5,205806E+22	1,471629E+23	1,041163E+23	2,512792E+23
1016	7,358142E+22	7,358332E+22	5,205794E+22	5,205832E+22	1,471647E+23	1,041163E+23	2,512810E+23
1017	7,358433E+22	7,358251E+22	5,205680E+22	5,205741E+22	1,471668E+23	1,041142E+23	2,512810E+23
1018	7,358119E+22	7,358169E+22	5,205809E+22	5,205640E+22	1,471629E+23	1,041145E+23	2,512774E+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							
1019	7,358279E+22	7,358411E+22	5,205738E+22	5,205740E+22	1,471669E+23	1,041148E+23	2,512817E+23
1020	7,358343E+22	7,358204E+22	5,205730E+22	5,205710E+22	1,471655E+23	1,041144E+23	2,512799E+23
1021	7,358006E+22	7,358223E+22	5,205886E+22	5,205797E+22	1,471623E+23	1,041168E+23	2,512791E+23
1022	7,358296E+22	7,358352E+22	5,205810E+22	5,205923E+22	1,471665E+23	1,041173E+23	2,512838E+23
1023	7,358183E+22	7,358084E+22	5,205904E+22	5,205878E+22	1,471627E+23	1,041178E+23	2,512805E+23
1024	7,358106E+22	7,358189E+22	5,206015E+22	5,205978E+22	1,471629E+23	1,041199E+23	2,512829E+23
1025	7,358437E+22	7,358200E+22	5,205955E+22	5,206049E+22	1,471664E+23	1,041200E+23	2,512864E+23
1026	7,358096E+22	7,358084E+22	5,206120E+22	5,206041E+22	1,471618E+23	1,041216E+23	2,512834E+23
1027	7,358109E+22	7,358368E+22	5,206112E+22	5,206167E+22	1,471648E+23	1,041228E+23	2,512876E+23
1028	7,358272E+22	7,358193E+22	5,206110E+22	5,206140E+22	1,471646E+23	1,041225E+23	2,512872E+23
1029	7,357945E+22	7,358075E+22	5,206270E+22	5,206122E+22	1,471602E+23	1,041239E+23	2,512841E+23
1030	7,358218E+22	7,358258E+22	5,206164E+22	5,206173E+22	1,471648E+23	1,041234E+23	2,512881E+23
1031	7,358202E+22	7,358030E+22	5,206128E+22	5,206067E+22	1,471623E+23	1,041220E+23	2,512843E+23
1032	7,357996E+22	7,358130E+22	5,206116E+22	5,206076E+22	1,471613E+23	1,041219E+23	2,512832E+23
1033	7,358333E+22	7,358271E+22	5,205925E+22	5,206080E+22	1,471660E+23	1,041200E+23	2,512861E+23
1034	7,358093E+22	7,358073E+22	5,205978E+22	5,205925E+22	1,471617E+23	1,041190E+23	2,512807E+23
1035	7,358086E+22	7,358306E+22	5,205940E+22	5,205900E+22	1,471639E+23	1,041184E+23	2,512823E+23
1036	7,358392E+22	7,358225E+22	5,205857E+22	5,205843E+22	1,471662E+23	1,041170E+23	2,512832E+23
1037	7,358061E+22	7,358056E+22	5,205972E+22	5,205825E+22	1,471612E+23	1,041180E+23	2,512791E+23
1038	7,358185E+22	7,358346E+22	5,205901E+22	5,205930E+22	1,471653E+23	1,041183E+23	2,512836E+23
1039	7,358223E+22	7,358158E+22	5,205893E+22	5,205918E+22	1,471638E+23	1,041181E+23	2,512819E+23
1040	7,357954E+22	7,358099E+22	5,206006E+22	5,205966E+22	1,471605E+23	1,041197E+23	2,512802E+23
1041	7,358309E+22	7,358258E+22	5,205948E+22	5,206061E+22	1,471657E+23	1,041201E+23	2,512858E+23
1042	7,358176E+22	7,357986E+22	5,206078E+22	5,206027E+22	1,471616E+23	1,041211E+23	2,512827E+23
1043	7,358035E+22	7,358192E+22	5,206158E+22	5,206110E+22	1,471623E+23	1,041227E+23	2,512849E+23
1044	7,358331E+22	7,358249E+22	5,206123E+22	5,206211E+22	1,471658E+23	1,041233E+23	2,512891E+23
1045	7,357978E+22	7,358010E+22	5,206301E+22	5,206236E+22	1,471599E+23	1,041254E+23	2,512853E+23
1046	7,358018E+22	7,358275E+22	5,206325E+22	5,206308E+22	1,471629E+23	1,041263E+23	2,512893E+23
1047	7,358196E+22	7,358095E+22	5,206311E+22	5,206287E+22	1,471629E+23	1,041260E+23	2,512889E+23
1048	7,357922E+22	7,357934E+22	5,206389E+22	5,206270E+22	1,471586E+23	1,041266E+23	2,512851E+23
1049	7,358208E+22	7,358191E+22	5,206255E+22	5,206327E+22	1,471640E+23	1,041258E+23	2,512898E+23
1050	7,358131E+22	7,357985E+22	5,206234E+22	5,206242E+22	1,471612E+23	1,041248E+23	2,512859E+23
1051	7,357909E+22	7,358146E+22	5,206199E+22	5,206185E+22	1,471605E+23	1,041238E+23	2,512844E+23
1052	7,358289E+22	7,358262E+22	5,206063E+22	5,206161E+22	1,471655E+23	1,041222E+23	2,512877E+23
1053	7,358070E+22	7,357956E+22	5,206138E+22	5,206032E+22	1,471603E+23	1,041217E+23	2,512820E+23
1054	7,358059E+22	7,358224E+22	5,206117E+22	5,205996E+22	1,471628E+23	1,041211E+23	2,512840E+23
1055	7,358289E+22	7,358194E+22	5,206025E+22	5,206003E+22	1,471648E+23	1,041203E+23	2,512851E+23
1056	7,357959E+22	7,357999E+22	5,206077E+22	5,206021E+22	1,471596E+23	1,041210E+23	2,512806E+23
1057	7,358114E+22	7,358286E+22	5,206019E+22	5,206109E+22	1,471640E+23	1,041213E+23	2,512853E+23
1058	7,358150E+22	7,358051E+22	5,206066E+22	5,206095E+22	1,471620E+23	1,041216E+23	2,512836E+23
1059	7,357916E+22	7,358046E+22	5,206146E+22	5,206084E+22	1,471596E+23	1,041223E+23	2,512819E+23
1060	7,358297E+22	7,358216E+22	5,206118E+22	5,206196E+22	1,471651E+23	1,041231E+23	2,512883E+23
1061	7,358126E+22	7,357907E+22	5,206249E+22	5,206220E+22	1,471603E+23	1,041247E+23	2,512850E+23
1062	7,357946E+22	7,358167E+22	5,206338E+22	5,206282E+22	1,471611E+23	1,041262E+23	2,512873E+23
1063	7,358198E+22	7,358221E+22	5,206322E+22	5,206390E+22	1,471642E+23	1,041271E+23	2,512913E+23
1064	7,357910E+22	7,357886E+22	5,206456E+22	5,206394E+22	1,471580E+23	1,041285E+23	2,512865E+23
1065	7,358001E+22	7,358154E+22	5,206477E+22	5,206441E+22	1,471615E+23	1,041292E+23	2,512907E+23
1066	7,358154E+22	7,357982E+22	5,206471E+22	5,206450E+22	1,471614E+23	1,041292E+23	2,512906E+23
1067	7,357852E+22	7,357923E+22	5,206477E+22	5,206403E+22	1,471578E+23	1,041288E+23	2,512865E+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	7,358138E+22	7,358215E+22	5,206362E+22	5,206468E+22	1,471635E+23	1,041283E+23	2,512918E+23
1069	7,358061E+22	7,357925E+22	5,206363E+22	5,206387E+22	1,471599E+23	1,041275E+23	2,512874E+23
1070	7,357865E+22	7,358090E+22	5,206367E+22	5,206268E+22	1,471595E+23	1,041263E+23	2,512859E+23
1071	7,358232E+22	7,358218E+22	5,206247E+22	5,206261E+22	1,471645E+23	1,041251E+23	2,512896E+23
1072	7,358036E+22	7,357848E+22	5,206262E+22	5,206170E+22	1,471588E+23	1,041243E+23	2,512832E+23
1073	7,357995E+22	7,358170E+22	5,206236E+22	5,206164E+22	1,471617E+23	1,041240E+23	2,512857E+23
1074	7,358167E+22	7,358139E+22	5,206157E+22	5,206212E+22	1,471631E+23	1,041237E+23	2,512868E+23
1075	7,357849E+22	7,357957E+22	5,206179E+22	5,206168E+22	1,471581E+23	1,041235E+23	2,512815E+23
1076	7,358087E+22	7,358215E+22	5,206172E+22	5,206235E+22	1,471630E+23	1,041241E+23	2,512871E+23
1077	7,358151E+22	7,357911E+22	5,206229E+22	5,206237E+22	1,471606E+23	1,041247E+23	2,512853E+23
1078	7,357912E+22	7,357978E+22	5,206325E+22	5,206203E+22	1,471589E+23	1,041253E+23	2,512842E+23
1079	7,358207E+22	7,358222E+22	5,206304E+22	5,206359E+22	1,471643E+23	1,041266E+23	2,512909E+23
1080	7,358022E+22	7,357872E+22	5,206395E+22	5,206411E+22	1,471589E+23	1,041281E+23	2,512870E+23
1081	7,357852E+22	7,358120E+22	5,206515E+22	5,206452E+22	1,471597E+23	1,041297E+23	2,512894E+23
1082	7,358093E+22	7,358121E+22	5,206534E+22	5,206574E+22	1,471621E+23	1,041311E+23	2,512932E+23
1083	7,357842E+22	7,357809E+22	5,206612E+22	5,206534E+22	1,471565E+23	1,041315E+23	2,512880E+23
1084	7,357979E+22	7,358080E+22	5,206629E+22	5,206601E+22	1,471606E+23	1,041323E+23	2,512929E+23
1085	7,358097E+22	7,357894E+22	5,206595E+22	5,206650E+22	1,471599E+23	1,041325E+23	2,512924E+23
1086	7,357796E+22	7,357903E+22	5,206591E+22	5,206550E+22	1,471570E+23	1,041314E+23	2,512884E+23
1087	7,358057E+22	7,358192E+22	5,206507E+22	5,206588E+22	1,471625E+23	1,041309E+23	2,512934E+23
1088	7,358037E+22	7,357835E+22	5,206480E+22	5,206483E+22	1,471587E+23	1,041296E+23	2,512883E+23
1089	7,357866E+22	7,358007E+22	5,206498E+22	5,206344E+22	1,471587E+23	1,041284E+23	2,512871E+23
1090	7,358148E+22	7,358143E+22	5,206401E+22	5,206399E+22	1,471629E+23	1,041280E+23	2,512909E+23
1091	7,357917E+22	7,357849E+22	5,206359E+22	5,206310E+22	1,471577E+23	1,041267E+23	2,512844E+23
1092	7,357896E+22	7,358145E+22	5,206360E+22	5,206333E+22	1,471604E+23	1,041269E+23	2,512873E+23
1093	7,358080E+22	7,358026E+22	5,206309E+22	5,206393E+22	1,471611E+23	1,041270E+23	2,512881E+23
1094	7,357831E+22	7,357864E+22	5,206344E+22	5,206284E+22	1,471570E+23	1,041263E+23	2,512832E+23
1095	7,358065E+22	7,358143E+22	5,206358E+22	5,206360E+22	1,471621E+23	1,041272E+23	2,512893E+23
1096	7,358142E+22	7,357826E+22	5,206364E+22	5,206397E+22	1,471597E+23	1,041276E+23	2,512873E+23
1097	7,357858E+22	7,357956E+22	5,206473E+22	5,206378E+22	1,471581E+23	1,041285E+23	2,512867E+23
1098	7,358063E+22	7,358202E+22	5,206488E+22	5,206575E+22	1,471626E+23	1,041306E+23	2,512933E+23
1099	7,357893E+22	7,357843E+22	5,206557E+22	5,206574E+22	1,471574E+23	1,041313E+23	2,512887E+23
1100	7,357798E+22	7,358032E+22	5,206710E+22	5,206610E+22	1,471583E+23	1,041332E+23	2,512915E+23
1101	7,358052E+22	7,357967E+22	5,206717E+22	5,206754E+22	1,471602E+23	1,041347E+23	2,512949E+23
1102	7,357816E+22	7,357726E+22	5,206766E+22	5,206685E+22	1,471554E+23	1,041345E+23	2,512899E+23
1103	7,357905E+22	7,358067E+22	5,206774E+22	5,206767E+22	1,471597E+23	1,041354E+23	2,512951E+23
1104	7,358039E+22	7,357844E+22	5,206685E+22	5,206807E+22	1,471588E+23	1,041349E+23	2,512937E+23
1105	7,357754E+22	7,357861E+22	5,206721E+22	5,206653E+22	1,471562E+23	1,041337E+23	2,512899E+23
1106	7,357986E+22	7,358130E+22	5,206674E+22	5,206695E+22	1,471612E+23	1,041337E+23	2,512949E+23
1107	7,357972E+22	7,357789E+22	5,206608E+22	5,206563E+22	1,471576E+23	1,041317E+23	2,512893E+23
1108	7,357817E+22	7,357956E+22	5,206642E+22	5,206480E+22	1,471577E+23	1,041312E+23	2,512889E+23
1109	7,358037E+22	7,358062E+22	5,206528E+22	5,206595E+22	1,471610E+23	1,041312E+23	2,512922E+23
1110	7,357827E+22	7,357798E+22	5,206482E+22	5,206472E+22	1,471562E+23	1,041295E+23	2,512858E+23
1111	7,357826E+22	7,358070E+22	5,206515E+22	5,206472E+22	1,471590E+23	1,041299E+23	2,512888E+23
1112	7,358083E+22	7,357891E+22	5,206428E+22	5,206519E+22	1,471597E+23	1,041295E+23	2,512892E+23
1113	7,357860E+22	7,357782E+22	5,206483E+22	5,206388E+22	1,471564E+23	1,041287E+23	2,512851E+23
1114	7,357999E+22	7,358108E+22	5,206523E+22	5,206521E+22	1,471611E+23	1,041304E+23	2,512915E+23
1115	7,358020E+22	7,357866E+22	5,206498E+22	5,206555E+22	1,471589E+23	1,041305E+23	2,512894E+23
1116	7,357751E+22	7,357955E+22	5,206655E+22	5,206568E+22	1,471571E+23	1,041322E+23	2,512893E+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							
1117	7,357933E+22	7,358100E+22	5,206704E+22	5,206782E+22	1,471603E+23	1,041349E+23	2,512952E+23
1118	7,357841E+22	7,357740E+22	5,206768E+22	5,206734E+22	1,471558E+23	1,041350E+23	2,512908E+23
1119	7,357758E+22	7,357912E+22	5,206914E+22	5,206776E+22	1,471567E+23	1,041369E+23	2,512936E+23
1120	7,358033E+22	7,357845E+22	5,206840E+22	5,206944E+22	1,471588E+23	1,041378E+23	2,512966E+23
1121	7,357791E+22	7,357686E+22	5,206865E+22	5,206846E+22	1,471548E+23	1,041371E+23	2,512919E+23
1122	7,357803E+22	7,358034E+22	5,206900E+22	5,206933E+22	1,471584E+23	1,041383E+23	2,512967E+23
1123	7,357958E+22	7,357833E+22	5,206798E+22	5,206891E+22	1,471579E+23	1,041369E+23	2,512948E+23
1124	7,357739E+22	7,357801E+22	5,206874E+22	5,206737E+22	1,471554E+23	1,041361E+23	2,512915E+23
1125	7,357921E+22	7,358023E+22	5,206841E+22	5,206816E+22	1,471594E+23	1,041366E+23	2,512960E+23
1126	7,357905E+22	7,357744E+22	5,206751E+22	5,206685E+22	1,471565E+23	1,041344E+23	2,512909E+23
1127	7,357699E+22	7,357926E+22	5,206786E+22	5,206641E+22	1,471563E+23	1,041343E+23	2,512905E+23
1128	7,357951E+22	7,357974E+22	5,206628E+22	5,206770E+22	1,471593E+23	1,041340E+23	2,512932E+23
1129	7,357800E+22	7,357714E+22	5,206608E+22	5,206598E+22	1,471551E+23	1,041321E+23	2,512872E+23
1130	7,357786E+22	7,357984E+22	5,206670E+22	5,206612E+22	1,471577E+23	1,041328E+23	2,512905E+23
1131	7,358055E+22	7,357853E+22	5,206551E+22	5,206627E+22	1,471591E+23	1,041318E+23	2,512909E+23
1132	7,357834E+22	7,357765E+22	5,206636E+22	5,206550E+22	1,471560E+23	1,041319E+23	2,512879E+23
1133	7,357877E+22	7,358073E+22	5,206694E+22	5,206730E+22	1,471595E+23	1,041342E+23	2,512937E+23
1134	7,357911E+22	7,357836E+22	5,206684E+22	5,206733E+22	1,471575E+23	1,041342E+23	2,512916E+23
1135	7,357662E+22	7,357868E+22	5,206881E+22	5,206736E+22	1,471553E+23	1,041362E+23	2,512915E+23
1136	7,357908E+22	7,357931E+22	5,206869E+22	5,206946E+22	1,471584E+23	1,041381E+23	2,512965E+23
1137	7,357844E+22	7,357616E+22	5,206925E+22	5,206880E+22	1,471546E+23	1,041381E+23	2,512927E+23
1138	7,357691E+22	7,357851E+22	5,207056E+22	5,206965E+22	1,471554E+23	1,041402E+23	2,512956E+23
1139	7,357936E+22	7,357853E+22	5,206935E+22	5,207090E+22	1,471579E+23	1,041402E+23	2,512981E+23
1140	7,357733E+22	7,357686E+22	5,207003E+22	5,206990E+22	1,471542E+23	1,041399E+23	2,512941E+23
1141	7,357714E+22	7,357966E+22	5,207076E+22	5,207063E+22	1,471568E+23	1,041414E+23	2,512982E+23
1142	7,357915E+22	7,357779E+22	5,206977E+22	5,206981E+22	1,471569E+23	1,041396E+23	2,512965E+23
1143	7,357683E+22	7,357728E+22	5,207063E+22	5,206857E+22	1,471541E+23	1,041392E+23	2,512933E+23
1144	7,357848E+22	7,357921E+22	5,206952E+22	5,206988E+22	1,471577E+23	1,041394E+23	2,512971E+23
1145	7,357832E+22	7,357692E+22	5,206851E+22	5,206855E+22	1,471552E+23	1,041371E+23	2,512923E+23
1146	7,357596E+22	7,357856E+22	5,206900E+22	5,206821E+22	1,471545E+23	1,041372E+23	2,512917E+23
1147	7,357900E+22	7,357908E+22	5,206726E+22	5,206870E+22	1,471581E+23	1,041360E+23	2,512940E+23
1148	7,357835E+22	7,357644E+22	5,206734E+22	5,206697E+22	1,471548E+23	1,041343E+23	2,512891E+23
1149	7,357752E+22	7,357905E+22	5,206823E+22	5,206742E+22	1,471566E+23	1,041357E+23	2,512922E+23
1150	7,358003E+22	7,357861E+22	5,206705E+22	5,206758E+22	1,471586E+23	1,041346E+23	2,512933E+23
1151	7,357724E+22	7,357759E+22	5,206827E+22	5,206718E+22	1,471548E+23	1,041355E+23	2,512903E+23
1152	7,357761E+22	7,357986E+22	5,206865E+22	5,206919E+22	1,471575E+23	1,041378E+23	2,512953E+23
1153	7,357857E+22	7,357734E+22	5,206876E+22	5,206889E+22	1,471559E+23	1,041377E+23	2,512936E+23
1154	7,357592E+22	7,357735E+22	5,207074E+22	5,206920E+22	1,471533E+23	1,041399E+23	2,512932E+23
1155	7,357860E+22	7,357843E+22	5,207008E+22	5,207100E+22	1,471570E+23	1,041411E+23	2,512981E+23
1156	7,357826E+22	7,357576E+22	5,207050E+22	5,207070E+22	1,471540E+23	1,041412E+23	2,512952E+23
1157	7,357589E+22	7,357815E+22	5,207191E+22	5,207168E+22	1,471540E+23	1,041436E+23	2,512976E+23
1158	7,357864E+22	7,357845E+22	5,207086E+22	5,207223E+22	1,471571E+23	1,041431E+23	2,513002E+23
1159	7,357676E+22	7,357630E+22	5,207204E+22	5,207095E+22	1,471531E+23	1,041430E+23	2,512961E+23
1160	7,357680E+22	7,357846E+22	5,207231E+22	5,207175E+22	1,471553E+23	1,041441E+23	2,512993E+23
1161	7,357887E+22	7,357696E+22	5,207127E+22	5,207097E+22	1,471558E+23	1,041422E+23	2,512981E+23
1162	7,357571E+22	7,357676E+22	5,207194E+22	5,207039E+22	1,471525E+23	1,041423E+23	2,512948E+23
1163	7,357727E+22	7,357896E+22	5,207033E+22	5,207136E+22	1,471562E+23	1,041417E+23	2,512979E+23
1164	7,357785E+22	7,357648E+22	5,206960E+22	5,207005E+22	1,471543E+23	1,041396E+23	2,512940E+23
1165	7,357547E+22	7,357763E+22	5,207038E+22	5,206955E+22	1,471531E+23	1,041399E+23	2,512930E+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							
1166	7,357907E+22	7,357843E+22	5,206872E+22	5,206954E+22	1,471575E+23	1,041383E+23	2,512958E+23
1167	7,357822E+22	7,357600E+22	5,206913E+22	5,206809E+22	1,471542E+23	1,041372E+23	2,512914E+23
1168	7,357692E+22	7,357845E+22	5,206946E+22	5,206902E+22	1,471554E+23	1,041385E+23	2,512939E+23
1169	7,357910E+22	7,357832E+22	5,206853E+22	5,206925E+22	1,471574E+23	1,041378E+23	2,512952E+23
1170	7,357592E+22	7,357693E+22	5,207007E+22	5,206916E+22	1,471529E+23	1,041392E+23	2,512921E+23
1171	7,357673E+22	7,357882E+22	5,207021E+22	5,207057E+22	1,471555E+23	1,041408E+23	2,512963E+23
1172	7,357853E+22	7,357628E+22	5,207041E+22	5,207051E+22	1,471548E+23	1,041409E+23	2,512957E+23
1173	7,357538E+22	7,357632E+22	5,207233E+22	5,207109E+22	1,471517E+23	1,041434E+23	2,512951E+23
1174	7,357801E+22	7,357828E+22	5,207151E+22	5,207265E+22	1,471563E+23	1,041442E+23	2,513005E+23
1175	7,357741E+22	7,357580E+22	5,207226E+22	5,207234E+22	1,471532E+23	1,041446E+23	2,512978E+23
1176	7,357513E+22	7,357747E+22	5,207344E+22	5,207322E+22	1,471526E+23	1,041467E+23	2,512993E+23
1177	7,357830E+22	7,357776E+22	5,207273E+22	5,207337E+22	1,471561E+23	1,041461E+23	2,513022E+23
1178	7,357609E+22	7,357542E+22	5,207391E+22	5,207246E+22	1,471515E+23	1,041464E+23	2,512979E+23
1179	7,357599E+22	7,357773E+22	5,207361E+22	5,207306E+22	1,471537E+23	1,041467E+23	2,513004E+23
1180	7,357831E+22	7,357659E+22	5,207231E+22	5,207278E+22	1,471549E+23	1,041451E+23	2,513000E+23
1181	7,357455E+22	7,357609E+22	5,207301E+22	5,207231E+22	1,471506E+23	1,041453E+23	2,512960E+23
1182	7,357681E+22	7,357842E+22	5,207151E+22	5,207251E+22	1,471552E+23	1,041440E+23	2,512993E+23
1183	7,357784E+22	7,357567E+22	5,207111E+22	5,207085E+22	1,471535E+23	1,041420E+23	2,512955E+23
1184	7,357556E+22	7,357650E+22	5,207151E+22	5,207048E+22	1,471521E+23	1,041420E+23	2,512940E+23
1185	7,357901E+22	7,357803E+22	5,207004E+22	5,207050E+22	1,471570E+23	1,041405E+23	2,512976E+23
1186	7,357703E+22	7,357592E+22	5,207056E+22	5,206980E+22	1,471529E+23	1,041404E+23	2,512933E+23
1187	7,357542E+22	7,357835E+22	5,207080E+22	5,207053E+22	1,471538E+23	1,041413E+23	2,512951E+23
1188	7,357824E+22	7,357785E+22	5,207019E+22	5,207102E+22	1,471561E+23	1,041412E+23	2,512973E+23
1189	7,357498E+22	7,357575E+22	5,207200E+22	5,207104E+22	1,471507E+23	1,041430E+23	2,512938E+23
1190	7,357647E+22	7,357782E+22	5,207203E+22	5,207209E+22	1,471543E+23	1,041441E+23	2,512984E+23
1191	7,357824E+22	7,357554E+22	5,207228E+22	5,207226E+22	1,471538E+23	1,041445E+23	2,512983E+23
1192	7,357485E+22	7,357564E+22	5,207351E+22	5,207315E+22	1,471505E+23	1,041467E+23	2,512972E+23
1193	7,357746E+22	7,357797E+22	5,207299E+22	5,207434E+22	1,471554E+23	1,041473E+23	2,513028E+23
1194	7,357650E+22	7,357533E+22	5,207408E+22	5,207400E+22	1,471518E+23	1,041481E+23	2,512999E+23
1195	7,357455E+22	7,357670E+22	5,207504E+22	5,207418E+22	1,471512E+23	1,041492E+23	2,513005E+23
1196	7,357814E+22	7,357706E+22	5,207434E+22	5,207467E+22	1,471552E+23	1,041490E+23	2,513042E+23
1197	7,357518E+22	7,357469E+22	5,207545E+22	5,207420E+22	1,471499E+23	1,041497E+23	2,512995E+23
1198	7,357505E+22	7,357741E+22	5,207485E+22	5,207457E+22	1,471525E+23	1,041494E+23	2,513019E+23
1199	7,357736E+22	7,357628E+22	5,207378E+22	5,207428E+22	1,471536E+23	1,041481E+23	2,513017E+23
1200	7,357408E+22	7,357509E+22	5,207400E+22	5,207363E+22	1,471492E+23	1,041476E+23	2,512968E+23
1201	7,357685E+22	7,357746E+22	5,207285E+22	5,207336E+22	1,471543E+23	1,041462E+23	2,513005E+23
1202	7,357751E+22	7,357504E+22	5,207254E+22	5,207204E+22	1,471526E+23	1,041446E+23	2,512971E+23
1203	7,357498E+22	7,357612E+22	5,207256E+22	5,207153E+22	1,471511E+23	1,041441E+23	2,512952E+23
1204	7,357824E+22	7,357811E+22	5,207117E+22	5,207218E+22	1,471564E+23	1,041434E+23	2,512997E+23
1205	7,357557E+22	7,357553E+22	5,207207E+22	5,207180E+22	1,471511E+23	1,041439E+23	2,512950E+23
1206	7,357450E+22	7,357761E+22	5,207257E+22	5,207197E+22	1,471521E+23	1,041445E+23	2,512967E+23
1207	7,357782E+22	7,357678E+22	5,207227E+22	5,207242E+22	1,471546E+23	1,041447E+23	2,512993E+23
1208	7,357485E+22	7,357428E+22	5,207343E+22	5,207269E+22	1,471491E+23	1,041461E+23	2,512953E+23
1209	7,357640E+22	7,357699E+22	5,207356E+22	5,207373E+22	1,471534E+23	1,041473E+23	2,513007E+23
1210	7,357732E+22	7,357537E+22	5,207376E+22	5,207430E+22	1,471527E+23	1,041481E+23	2,513008E+23
1211	7,357387E+22	7,357547E+22	5,207488E+22	5,207466E+22	1,471493E+23	1,041495E+23	2,512989E+23
1212	7,357700E+22	7,357771E+22	5,207472E+22	5,207586E+22	1,471547E+23	1,041506E+23	2,513053E+23
1213	7,357567E+22	7,357450E+22	5,207615E+22	5,207559E+22	1,471502E+23	1,041517E+23	2,513019E+23
1214	7,357404E+22	7,357600E+22	5,207698E+22	5,207549E+22	1,471500E+23	1,041525E+23	2,513025E+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							
1215	7,357743E+22	7,357647E+22	5,207611E+22	5,207628E+22	1,471539E+23	1,041524E+23	2,513063E+23
1216	7,357420E+22	7,357384E+22	5,207641E+22	5,207619E+22	1,471480E+23	1,041526E+23	2,513006E+23
1217	7,357446E+22	7,357666E+22	5,207599E+22	5,207609E+22	1,471511E+23	1,041521E+23	2,513032E+23
1218	7,357671E+22	7,357544E+22	5,207505E+22	5,207562E+22	1,471521E+23	1,041507E+23	2,513028E+23
1219	7,357396E+22	7,357422E+22	5,207498E+22	5,207427E+22	1,471482E+23	1,041493E+23	2,512974E+23
1220	7,357702E+22	7,357706E+22	5,207389E+22	5,207430E+22	1,471541E+23	1,041482E+23	2,513023E+23
1221	7,357660E+22	7,357486E+22	5,207386E+22	5,207347E+22	1,471515E+23	1,041473E+23	2,512988E+23
1222	7,357385E+22	7,357625E+22	5,207397E+22	5,207287E+22	1,471501E+23	1,041468E+23	2,512969E+23
1223	7,357698E+22	7,357789E+22	5,207308E+22	5,207369E+22	1,471549E+23	1,041468E+23	2,513016E+23
1224	7,357474E+22	7,357435E+22	5,207369E+22	5,207353E+22	1,471491E+23	1,041472E+23	2,512963E+23
1225	7,357440E+22	7,357618E+22	5,207443E+22	5,207345E+22	1,471506E+23	1,041479E+23	2,512985E+23
1226	7,357741E+22	7,357570E+22	5,207403E+22	5,207429E+22	1,471531E+23	1,041483E+23	2,513014E+23
1227	7,357447E+22	7,357362E+22	5,207455E+22	5,207435E+22	1,471481E+23	1,041489E+23	2,512970E+23
1228	7,357593E+22	7,357698E+22	5,207469E+22	5,207572E+22	1,471529E+23	1,041504E+23	2,513033E+23
1229	7,357623E+22	7,357519E+22	5,207543E+22	5,207624E+22	1,471514E+23	1,041517E+23	2,513031E+23
1230	7,357328E+22	7,357496E+22	5,207684E+22	5,207584E+22	1,471482E+23	1,041527E+23	2,513009E+23
1231	7,357646E+22	7,357699E+22	5,207702E+22	5,207703E+22	1,471534E+23	1,041541E+23	2,513075E+23
1232	7,357514E+22	7,357339E+22	5,207774E+22	5,207721E+22	1,471485E+23	1,041550E+23	2,513035E+23
1233	7,357337E+22	7,357509E+22	5,207851E+22	5,207717E+22	1,471485E+23	1,041557E+23	2,513041E+23
1234	7,357606E+22	7,357604E+22	5,207747E+22	5,207828E+22	1,471521E+23	1,041557E+23	2,513079E+23
1235	7,357335E+22	7,357316E+22	5,207731E+22	5,207754E+22	1,471465E+23	1,041549E+23	2,513014E+23
1236	7,357436E+22	7,357604E+22	5,207705E+22	5,207731E+22	1,471504E+23	1,041544E+23	2,513048E+23
1237	7,357634E+22	7,357473E+22	5,207644E+22	5,207676E+22	1,471511E+23	1,041532E+23	2,513043E+23
1238	7,357380E+22	7,357381E+22	5,207638E+22	5,207507E+22	1,471476E+23	1,041515E+23	2,512991E+23
1239	7,357632E+22	7,357702E+22	5,207549E+22	5,207550E+22	1,471533E+23	1,041510E+23	2,513043E+23
1240	7,357549E+22	7,357442E+22	5,207501E+22	5,207524E+22	1,471499E+23	1,041502E+23	2,513002E+23
1241	7,357306E+22	7,357538E+22	5,207560E+22	5,207443E+22	1,471484E+23	1,041500E+23	2,512985E+23
1242	7,357608E+22	7,357680E+22	5,207486E+22	5,207530E+22	1,471529E+23	1,041502E+23	2,513030E+23
1243	7,357452E+22	7,357304E+22	5,207498E+22	5,207478E+22	1,471476E+23	1,041498E+23	2,512973E+23
1244	7,357457E+22	7,357543E+22	5,207561E+22	5,207508E+22	1,471500E+23	1,041507E+23	2,513007E+23
1245	7,357660E+22	7,357533E+22	5,207541E+22	5,207625E+22	1,471519E+23	1,041517E+23	2,513036E+23
1246	7,357362E+22	7,357379E+22	5,207607E+22	5,207591E+22	1,471474E+23	1,041520E+23	2,512994E+23
1247	7,357502E+22	7,357694E+22	5,207673E+22	5,207716E+22	1,471520E+23	1,041539E+23	2,513058E+23
1248	7,357540E+22	7,357430E+22	5,207735E+22	5,207786E+22	1,471497E+23	1,041552E+23	2,513049E+23
1249	7,357295E+22	7,357381E+22	5,207905E+22	5,207732E+22	1,471468E+23	1,041564E+23	2,513031E+23
1250	7,357551E+22	7,357602E+22	5,207900E+22	5,207892E+22	1,471515E+23	1,041579E+23	2,513094E+23
1251	7,357427E+22	7,357257E+22	5,207891E+22	5,207905E+22	1,471468E+23	1,041580E+23	2,513048E+23
1252	7,357275E+22	7,357465E+22	5,207941E+22	5,207916E+22	1,471474E+23	1,041586E+23	2,513060E+23
1253	7,357511E+22	7,357534E+22	5,207874E+22	5,207998E+22	1,471505E+23	1,041587E+23	2,513092E+23
1254	7,357323E+22	7,357252E+22	5,207865E+22	5,207828E+22	1,471457E+23	1,041569E+23	2,513027E+23
1255	7,357440E+22	7,357549E+22	5,207864E+22	5,207794E+22	1,471499E+23	1,041566E+23	2,513065E+23
1256	7,357603E+22	7,357413E+22	5,207762E+22	5,207787E+22	1,471502E+23	1,041555E+23	2,513057E+23
1257	7,357325E+22	7,357346E+22	5,207781E+22	5,207635E+22	1,471467E+23	1,041542E+23	2,513009E+23
1258	7,357475E+22	7,357688E+22	5,207706E+22	5,207717E+22	1,471516E+23	1,041542E+23	2,513059E+23
1259	7,357446E+22	7,357369E+22	5,207629E+22	5,207666E+22	1,471482E+23	1,041530E+23	2,513011E+23
1260	7,357275E+22	7,357440E+22	5,207697E+22	5,207600E+22	1,471472E+23	1,041530E+23	2,513001E+23
1261	7,357558E+22	7,357572E+22	5,207650E+22	5,207702E+22	1,471513E+23	1,041535E+23	2,513048E+23
1262	7,357440E+22	7,357237E+22	5,207635E+22	5,207613E+22	1,471468E+23	1,041525E+23	2,512993E+23
1263	7,357402E+22	7,357531E+22	5,207708E+22	5,207672E+22	1,471493E+23	1,041538E+23	2,513031E+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							
1264	7,357569E+22	7,357506E+22	5,207665E+22	5,207817E+22	1,471507E+23	1,041548E+23	2,513056E+23
1265	7,357308E+22	7,357302E+22	5,207801E+22	5,207741E+22	1,471461E+23	1,041554E+23	2,513015E+23
1266	7,357408E+22	7,357609E+22	5,207899E+22	5,207862E+22	1,471502E+23	1,041576E+23	2,513078E+23
1267	7,357498E+22	7,357315E+22	5,207904E+22	5,207920E+22	1,471481E+23	1,041582E+23	2,513064E+23
1268	7,357262E+22	7,357302E+22	5,208050E+22	5,207915E+22	1,471456E+23	1,041596E+23	2,513053E+23
1269	7,357423E+22	7,357550E+22	5,208048E+22	5,208105E+22	1,471497E+23	1,041615E+23	2,513113E+23
1270	7,357331E+22	7,357229E+22	5,208022E+22	5,208061E+22	1,471456E+23	1,041608E+23	2,513064E+23
1271	7,357217E+22	7,357424E+22	5,208100E+22	5,208047E+22	1,471464E+23	1,041615E+23	2,513079E+23
1272	7,357483E+22	7,357440E+22	5,208011E+22	5,208122E+22	1,471492E+23	1,041613E+23	2,513106E+23
1273	7,357343E+22	7,357160E+22	5,208032E+22	5,207922E+22	1,471450E+23	1,041595E+23	2,513046E+23
1274	7,357371E+22	7,357508E+22	5,208022E+22	5,207920E+22	1,471488E+23	1,041594E+23	2,513082E+23
1275	7,357512E+22	7,357385E+22	5,207857E+22	5,207929E+22	1,471490E+23	1,041579E+23	2,513068E+23
1276	7,357243E+22	7,357325E+22	5,207879E+22	5,207813E+22	1,471457E+23	1,041569E+23	2,513026E+23
1277	7,357350E+22	7,357602E+22	5,207854E+22	5,207884E+22	1,471495E+23	1,041574E+23	2,513069E+23
1278	7,357406E+22	7,357276E+22	5,207779E+22	5,207771E+22	1,471468E+23	1,041555E+23	2,513023E+23
1279	7,357275E+22	7,357357E+22	5,207846E+22	5,207713E+22	1,471463E+23	1,041556E+23	2,513019E+23
1280	7,357519E+22	7,357481E+22	5,207765E+22	5,207862E+22	1,471500E+23	1,041563E+23	2,513063E+23
1281	7,357400E+22	7,357201E+22	5,207781E+22	5,207768E+22	1,471460E+23	1,041555E+23	2,513015E+23
1282	7,357280E+22	7,357521E+22	5,207881E+22	5,207836E+22	1,471480E+23	1,041572E+23	2,513052E+23
1283	7,357490E+22	7,357446E+22	5,207829E+22	5,207957E+22	1,471494E+23	1,041579E+23	2,513072E+23
1284	7,357279E+22	7,357228E+22	5,207984E+22	5,207901E+22	1,471451E+23	1,041589E+23	2,513039E+23
1285	7,357315E+22	7,357508E+22	5,208112E+22	5,208047E+22	1,471482E+23	1,041616E+23	2,513098E+23
1286	7,357430E+22	7,357250E+22	5,208081E+22	5,208089E+22	1,471468E+23	1,041617E+23	2,513085E+23
1287	7,357177E+22	7,357267E+22	5,208202E+22	5,208114E+22	1,471444E+23	1,041632E+23	2,513076E+23
1288	7,357326E+22	7,357473E+22	5,208170E+22	5,208310E+22	1,471480E+23	1,041648E+23	2,513128E+23
1289	7,357318E+22	7,357130E+22	5,208181E+22	5,208194E+22	1,471445E+23	1,041637E+23	2,513082E+23
1290	7,357181E+22	7,357348E+22	5,208267E+22	5,208150E+22	1,471453E+23	1,041642E+23	2,513095E+23
1291	7,357483E+22	7,357365E+22	5,208125E+22	5,208210E+22	1,471485E+23	1,041634E+23	2,513118E+23
1292	7,357318E+22	7,357140E+22	5,208137E+22	5,208055E+22	1,471446E+23	1,041619E+23	2,513065E+23
1293	7,357222E+22	7,357505E+22	5,208159E+22	5,208085E+22	1,471473E+23	1,041624E+23	2,513097E+23
1294	7,357391E+22	7,357371E+22	5,207987E+22	5,208052E+22	1,471476E+23	1,041604E+23	2,513080E+23
1295	7,357160E+22	7,357262E+22	5,208036E+22	5,207943E+22	1,471442E+23	1,041598E+23	2,513040E+23
1296	7,357301E+22	7,357471E+22	5,207993E+22	5,208028E+22	1,471477E+23	1,041602E+23	2,513079E+23
1297	7,357426E+22	7,357143E+22	5,207933E+22	5,207898E+22	1,471457E+23	1,041583E+23	2,513040E+23
1298	7,357222E+22	7,357301E+22	5,207987E+22	5,207866E+22	1,471452E+23	1,041585E+23	2,513038E+23
1299	7,357463E+22	7,357448E+22	5,207855E+22	5,208021E+22	1,471491E+23	1,041588E+23	2,513079E+23
1300	7,357346E+22	7,357187E+22	5,207901E+22	5,207939E+22	1,471453E+23	1,041584E+23	2,513037E+23
1301	7,357172E+22	7,357459E+22	5,208078E+22	5,207991E+22	1,471463E+23	1,041607E+23	2,513070E+23
1302	7,357435E+22	7,357375E+22	5,208030E+22	5,208069E+22	1,471481E+23	1,041610E+23	2,513091E+23
1303	7,357235E+22	7,357162E+22	5,208186E+22	5,208060E+22	1,471440E+23	1,041625E+23	2,513064E+23
1304	7,357219E+22	7,357418E+22	5,208273E+22	5,208261E+22	1,471464E+23	1,041653E+23	2,513117E+23
1305	7,357353E+22	7,357185E+22	5,208249E+22	5,208292E+22	1,471454E+23	1,041654E+23	2,513108E+23
1306	7,357067E+22	7,357222E+22	5,208367E+22	5,208298E+22	1,471429E+23	1,041666E+23	2,513095E+23
1307	7,357289E+22	7,357381E+22	5,208302E+22	5,208449E+22	1,471467E+23	1,041675E+23	2,513142E+23
1308	7,357338E+22	7,357072E+22	5,208316E+22	5,208321E+22	1,471441E+23	1,041664E+23	2,513105E+23
1309	7,357129E+22	7,357283E+22	5,208427E+22	5,208279E+22	1,471441E+23	1,041671E+23	2,513112E+23
1310	7,357410E+22	7,357355E+22	5,208259E+22	5,208322E+22	1,471476E+23	1,041658E+23	2,513135E+23
1311	7,357217E+22	7,357152E+22	5,208259E+22	5,208208E+22	1,471437E+23	1,041647E+23	2,513084E+23
1312	7,357088E+22	7,357421E+22	5,208281E+22	5,208252E+22	1,471451E+23	1,041653E+23	2,513104E+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							
1313	7,357348E+22	7,357244E+22	5,208153E+22	5,208171E+22	1,471459E+23	1,041632E+23	2,513092E+23
1314	7,357124E+22	7,357147E+22	5,208188E+22	5,208050E+22	1,471427E+23	1,041624E+23	2,513051E+23
1315	7,357310E+22	7,357355E+22	5,208087E+22	5,208143E+22	1,471466E+23	1,041623E+23	2,513089E+23
1316	7,357419E+22	7,357122E+22	5,208017E+22	5,208047E+22	1,471454E+23	1,041606E+23	2,513060E+23
1317	7,357104E+22	7,357304E+22	5,208119E+22	5,208032E+22	1,471441E+23	1,041615E+23	2,513056E+23
1318	7,357361E+22	7,357455E+22	5,208014E+22	5,208142E+22	1,471482E+23	1,041616E+23	2,513097E+23
1319	7,357274E+22	7,357162E+22	5,208103E+22	5,208083E+22	1,471444E+23	1,041619E+23	2,513062E+23
1320	7,357089E+22	7,357347E+22	5,208287E+22	5,208168E+22	1,471444E+23	1,041645E+23	2,513089E+23
1321	7,357401E+22	7,357254E+22	5,208248E+22	5,208250E+22	1,471465E+23	1,041650E+23	2,513115E+23
1322	7,357133E+22	7,357094E+22	5,208368E+22	5,208273E+22	1,471423E+23	1,041664E+23	2,513087E+23
1323	7,357145E+22	7,357340E+22	5,208382E+22	5,208476E+22	1,471448E+23	1,041686E+23	2,513134E+23
1324	7,357316E+22	7,357122E+22	5,208364E+22	5,208482E+22	1,471444E+23	1,041685E+23	2,513128E+23
1325	7,357010E+22	7,357142E+22	5,208531E+22	5,208442E+22	1,471415E+23	1,041697E+23	2,513112E+23
1326	7,357283E+22	7,357322E+22	5,208452E+22	5,208520E+22	1,471460E+23	1,041697E+23	2,513158E+23
1327	7,357311E+22	7,357051E+22	5,208465E+22	5,208427E+22	1,471436E+23	1,041689E+23	2,513125E+23
1328	7,357019E+22	7,357245E+22	5,208564E+22	5,208430E+22	1,471426E+23	1,041699E+23	2,513126E+23
1329	7,357307E+22	7,357310E+22	5,208414E+22	5,208465E+22	1,471462E+23	1,041688E+23	2,513150E+23
1330	7,357084E+22	7,357098E+22	5,208425E+22	5,208350E+22	1,471418E+23	1,041677E+23	2,513096E+23
1331	7,357040E+22	7,357291E+22	5,208400E+22	5,208381E+22	1,471433E+23	1,041678E+23	2,513111E+23
1332	7,357358E+22	7,357140E+22	5,208266E+22	5,208304E+22	1,471450E+23	1,041657E+23	2,513107E+23
1333	7,357084E+22	7,357068E+22	5,208314E+22	5,208195E+22	1,471415E+23	1,041651E+23	2,513066E+23
1334	7,357259E+22	7,357345E+22	5,208187E+22	5,208268E+22	1,471460E+23	1,041645E+23	2,513106E+23
1335	7,357342E+22	7,357160E+22	5,208131E+22	5,208207E+22	1,471450E+23	1,041634E+23	2,513084E+23
1336	7,356996E+22	7,357250E+22	5,208278E+22	5,208196E+22	1,471425E+23	1,041647E+23	2,513072E+23
1337	7,357314E+22	7,357358E+22	5,208233E+22	5,208269E+22	1,471467E+23	1,041650E+23	2,513117E+23
1338	7,357210E+22	7,357074E+22	5,208322E+22	5,208229E+22	1,471428E+23	1,041655E+23	2,513083E+23
1339	7,357045E+22	7,357220E+22	5,208442E+22	5,208353E+22	1,471427E+23	1,041679E+23	2,513106E+23
1340	7,357342E+22	7,357204E+22	5,208382E+22	5,208467E+22	1,471455E+23	1,041685E+23	2,513139E+23
1341	7,357016E+22	7,357044E+22	5,208514E+22	5,208483E+22	1,471406E+23	1,041700E+23	2,513106E+23
1342	7,357070E+22	7,357289E+22	5,208531E+22	5,208614E+22	1,471436E+23	1,041715E+23	2,513151E+23
1343	7,357293E+22	7,357093E+22	5,208526E+22	5,208612E+22	1,471439E+23	1,041714E+23	2,513153E+23
1344	7,356969E+22	7,357046E+22	5,208705E+22	5,208575E+22	1,471402E+23	1,041728E+23	2,513130E+23
1345	7,357256E+22	7,357247E+22	5,208646E+22	5,208644E+22	1,471450E+23	1,041729E+23	2,513179E+23
1346	7,357197E+22	7,357039E+22	5,208629E+22	5,208582E+22	1,471424E+23	1,041721E+23	2,513145E+23
1347	7,356911E+22	7,357176E+22	5,208669E+22	5,208605E+22	1,471409E+23	1,041727E+23	2,513136E+23
1348	7,357233E+22	7,357236E+22	5,208529E+22	5,208620E+22	1,471447E+23	1,041715E+23	2,513162E+23
1349	7,357015E+22	7,356984E+22	5,208565E+22	5,208482E+22	1,471400E+23	1,041705E+23	2,513105E+23
1350	7,357035E+22	7,357197E+22	5,208514E+22	5,208465E+22	1,471423E+23	1,041698E+23	2,513121E+23
1351	7,357350E+22	7,357121E+22	5,208365E+22	5,208430E+22	1,471447E+23	1,041680E+23	2,513127E+23
1352	7,357000E+22	7,357045E+22	5,208424E+22	5,208353E+22	1,471405E+23	1,041678E+23	2,513082E+23
1353	7,357186E+22	7,357327E+22	5,208343E+22	5,208400E+22	1,471451E+23	1,041674E+23	2,513126E+23
1354	7,357231E+22	7,357139E+22	5,208327E+22	5,208338E+22	1,471437E+23	1,041667E+23	2,513104E+23
1355	7,356949E+22	7,357138E+22	5,208452E+22	5,208345E+22	1,471409E+23	1,041680E+23	2,513089E+23
1356	7,357287E+22	7,357250E+22	5,208409E+22	5,208434E+22	1,471454E+23	1,041684E+23	2,513138E+23
1357	7,357124E+22	7,356977E+22	5,208504E+22	5,208434E+22	1,471410E+23	1,041694E+23	2,513104E+23
1358	7,356965E+22	7,357167E+22	5,208568E+22	5,208538E+22	1,471413E+23	1,041711E+23	2,513124E+23
1359	7,357259E+22	7,357182E+22	5,208505E+22	5,208670E+22	1,471444E+23	1,041717E+23	2,513162E+23
1360	7,356939E+22	7,356954E+22	5,208673E+22	5,208655E+22	1,471389E+23	1,041733E+23	2,513122E+23
1361	7,357072E+22	7,357186E+22	5,208727E+22	5,208721E+22	1,471426E+23	1,041745E+23	2,513171E+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							
1362	7,357254E+22	7,357045E+22	5,208725E+22	5,208719E+22	1,471430E+23	1,041744E+23	2,513174E+23
1363	7,356926E+22	7,356977E+22	5,208844E+22	5,208724E+22	1,471390E+23	1,041757E+23	2,513147E+23
1364	7,357157E+22	7,357231E+22	5,208779E+22	5,208814E+22	1,471439E+23	1,041759E+23	2,513198E+23
1365	7,357040E+22	7,357003E+22	5,208785E+22	5,208764E+22	1,471404E+23	1,041755E+23	2,513159E+23
1366	7,356814E+22	7,357099E+22	5,208804E+22	5,208731E+22	1,471391E+23	1,041754E+23	2,513145E+23
1367	7,357199E+22	7,357170E+22	5,208657E+22	5,208756E+22	1,471437E+23	1,041741E+23	2,513178E+23
1368	7,356992E+22	7,356866E+22	5,208694E+22	5,208620E+22	1,471386E+23	1,041731E+23	2,513117E+23
1369	7,357038E+22	7,357122E+22	5,208648E+22	5,208586E+22	1,471416E+23	1,041723E+23	2,513139E+23
1370	7,357275E+22	7,357135E+22	5,208492E+22	5,208564E+22	1,471441E+23	1,041706E+23	2,513147E+23
1371	7,356936E+22	7,356993E+22	5,208528E+22	5,208505E+22	1,471393E+23	1,041703E+23	2,513096E+23
1372	7,357129E+22	7,357270E+22	5,208500E+22	5,208526E+22	1,471440E+23	1,041703E+23	2,513142E+23
1373	7,357161E+22	7,357042E+22	5,208515E+22	5,208470E+22	1,471420E+23	1,041699E+23	2,513119E+23
1374	7,356901E+22	7,357034E+22	5,208613E+22	5,208469E+22	1,471394E+23	1,041708E+23	2,513102E+23
1375	7,357222E+22	7,357217E+22	5,208546E+22	5,208622E+22	1,471444E+23	1,041717E+23	2,513161E+23
1376	7,357008E+22	7,356912E+22	5,208646E+22	5,208649E+22	1,471392E+23	1,041729E+23	2,513121E+23
1377	7,356896E+22	7,357101E+22	5,208741E+22	5,208712E+22	1,471400E+23	1,041745E+23	2,513145E+23
1378	7,357184E+22	7,357141E+22	5,208703E+22	5,208813E+22	1,471433E+23	1,041752E+23	2,513184E+23
1379	7,356929E+22	7,356847E+22	5,208840E+22	5,208802E+22	1,471378E+23	1,041764E+23	2,513142E+23
1380	7,357059E+22	7,357116E+22	5,208905E+22	5,208862E+22	1,471418E+23	1,041777E+23	2,513194E+23
1381	7,357159E+22	7,357001E+22	5,208904E+22	5,208898E+22	1,471416E+23	1,041780E+23	2,513196E+23
1382	7,356812E+22	7,356954E+22	5,208973E+22	5,208894E+22	1,471377E+23	1,041787E+23	2,513163E+23
1383	7,357043E+22	7,357214E+22	5,208898E+22	5,208999E+22	1,471426E+23	1,041790E+23	2,513215E+23
1384	7,356948E+22	7,356884E+22	5,208936E+22	5,208924E+22	1,471383E+23	1,041786E+23	2,513169E+23
1385	7,356826E+22	7,356963E+22	5,208961E+22	5,208830E+22	1,471379E+23	1,041779E+23	2,513158E+23
1386	7,357184E+22	7,357099E+22	5,208803E+22	5,208851E+22	1,471428E+23	1,041765E+23	2,513194E+23
1387	7,356988E+22	7,356804E+22	5,208777E+22	5,208751E+22	1,471379E+23	1,041753E+23	2,513132E+23
1388	7,356988E+22	7,357116E+22	5,208742E+22	5,208711E+22	1,471410E+23	1,041745E+23	2,513156E+23
1389	7,357152E+22	7,357124E+22	5,208639E+22	5,208699E+22	1,471428E+23	1,041734E+23	2,513161E+23
1390	7,356856E+22	7,356945E+22	5,208677E+22	5,208606E+22	1,471380E+23	1,041728E+23	2,513108E+23
1391	7,357062E+22	7,357212E+22	5,208661E+22	5,208666E+22	1,471427E+23	1,041733E+23	2,513160E+23
1392	7,357084E+22	7,356923E+22	5,208701E+22	5,208652E+22	1,471401E+23	1,041735E+23	2,513136E+23
1393	7,356856E+22	7,356937E+22	5,208781E+22	5,208651E+22	1,471379E+23	1,041743E+23	2,513123E+23
1394	7,357116E+22	7,357190E+22	5,208702E+22	5,208817E+22	1,471431E+23	1,041752E+23	2,513183E+23
1395	7,356954E+22	7,356826E+22	5,208765E+22	5,208845E+22	1,471378E+23	1,041761E+23	2,513139E+23
1396	7,356878E+22	7,357016E+22	5,208902E+22	5,208854E+22	1,471389E+23	1,041776E+23	2,513165E+23
1397	7,357145E+22	7,357064E+22	5,208899E+22	5,208949E+22	1,471421E+23	1,041785E+23	2,513206E+23
1398	7,356896E+22	7,356791E+22	5,209004E+22	5,208925E+22	1,471369E+23	1,041793E+23	2,513162E+23
1399	7,356970E+22	7,357126E+22	5,209054E+22	5,209039E+22	1,471410E+23	1,041809E+23	2,513219E+23
1400	7,357014E+22	7,356958E+22	5,209071E+22	5,209099E+22	1,471397E+23	1,041817E+23	2,513214E+23
1401	7,356719E+22	7,356873E+22	5,209152E+22	5,209053E+22	1,471359E+23	1,041820E+23	2,513180E+23
1402	7,356963E+22	7,357142E+22	5,209080E+22	5,209128E+22	1,471411E+23	1,041821E+23	2,513231E+23
1403	7,356957E+22	7,356738E+22	5,209056E+22	5,209060E+22	1,471370E+23	1,041812E+23	2,513181E+23
1404	7,356848E+22	7,356871E+22	5,209077E+22	5,208949E+22	1,471372E+23	1,041803E+23	2,513175E+23
1405	7,357129E+22	7,357069E+22	5,208912E+22	5,208989E+22	1,471420E+23	1,041790E+23	2,513210E+23
1406	7,356903E+22	7,356804E+22	5,208854E+22	5,208869E+22	1,471371E+23	1,041772E+23	2,513143E+23
1407	7,356892E+22	7,357131E+22	5,208848E+22	5,208839E+22	1,471402E+23	1,041769E+23	2,513171E+23
1408	7,357060E+22	7,357032E+22	5,208810E+22	5,208824E+22	1,471409E+23	1,041763E+23	2,513173E+23
1409	7,356830E+22	7,356829E+22	5,208866E+22	5,208717E+22	1,471366E+23	1,041758E+23	2,513124E+23
1410	7,356992E+22	7,357147E+22	5,208842E+22	5,208805E+22	1,471414E+23	1,041765E+23	2,513179E+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							
1411	7,357024E+22	7,356833E+22	5,208819E+22	5,208854E+22	1,471386E+23	1,041767E+23	2,513153E+23
1412	7,356789E+22	7,356886E+22	5,208907E+22	5,208839E+22	1,471368E+23	1,041775E+23	2,513142E+23
1413	7,357022E+22	7,357133E+22	5,208870E+22	5,208995E+22	1,471415E+23	1,041786E+23	2,513202E+23
1414	7,356916E+22	7,356764E+22	5,208923E+22	5,208972E+22	1,471368E+23	1,041790E+23	2,513157E+23
1415	7,356859E+22	7,356981E+22	5,209067E+22	5,208997E+22	1,471384E+23	1,041806E+23	2,513190E+23
1416	7,357079E+22	7,356987E+22	5,209103E+22	5,209124E+22	1,471407E+23	1,041823E+23	2,513229E+23
1417	7,356830E+22	7,356745E+22	5,209193E+22	5,209104E+22	1,471357E+23	1,041830E+23	2,513187E+23
1418	7,356827E+22	7,357110E+22	5,209235E+22	5,209223E+22	1,471394E+23	1,041846E+23	2,513239E+23
1419	7,356935E+22	7,356847E+22	5,209212E+22	5,209291E+22	1,471378E+23	1,041850E+23	2,513229E+23
1420	7,356708E+22	7,356739E+22	5,209294E+22	5,209179E+22	1,471345E+23	1,041847E+23	2,513192E+23
1421	7,356937E+22	7,357025E+22	5,209226E+22	5,209246E+22	1,471396E+23	1,041847E+23	2,513243E+23
1422	7,356946E+22	7,356688E+22	5,209139E+22	5,209156E+22	1,471363E+23	1,041829E+23	2,513193E+23
1423	7,356789E+22	7,356902E+22	5,209144E+22	5,209079E+22	1,471369E+23	1,041822E+23	2,513191E+23
1424	7,357005E+22	7,357062E+22	5,209042E+22	5,209132E+22	1,471407E+23	1,041817E+23	2,513224E+23
1425	7,356823E+22	7,356770E+22	5,209018E+22	5,208978E+22	1,471359E+23	1,041800E+23	2,513159E+23
1426	7,356793E+22	7,357085E+22	5,209045E+22	5,208941E+22	1,471388E+23	1,041799E+23	2,513186E+23
1427	7,357025E+22	7,356899E+22	5,208965E+22	5,208978E+22	1,471392E+23	1,041794E+23	2,513187E+23
1428	7,356808E+22	7,356713E+22	5,209015E+22	5,208880E+22	1,471352E+23	1,041790E+23	2,513142E+23
1429	7,356905E+22	7,357079E+22	5,208981E+22	5,209006E+22	1,471398E+23	1,041799E+23	2,513197E+23
1430	7,356948E+22	7,356794E+22	5,208911E+22	5,209032E+22	1,471374E+23	1,041794E+23	2,513168E+23
1431	7,356739E+22	7,356865E+22	5,209022E+22	5,209004E+22	1,471360E+23	1,041803E+23	2,513163E+23
1432	7,356981E+22	7,357037E+22	5,209061E+22	5,209136E+22	1,471402E+23	1,041820E+23	2,513221E+23
1433	7,356914E+22	7,356688E+22	5,209128E+22	5,209088E+22	1,471360E+23	1,041822E+23	2,513182E+23
1434	7,356785E+22	7,356968E+22	5,209279E+22	5,209138E+22	1,471375E+23	1,041842E+23	2,513217E+23
1435	7,356986E+22	7,356925E+22	5,209259E+22	5,209330E+22	1,471391E+23	1,041859E+23	2,513250E+23
1436	7,356724E+22	7,356685E+22	5,209362E+22	5,209296E+22	1,471341E+23	1,041866E+23	2,513207E+23
1437	7,356708E+22	7,357023E+22	5,209413E+22	5,209401E+22	1,471373E+23	1,041881E+23	2,513254E+23
1438	7,356881E+22	7,356739E+22	5,209339E+22	5,209424E+22	1,471362E+23	1,041876E+23	2,513238E+23
1439	7,356702E+22	7,356678E+22	5,209399E+22	5,209316E+22	1,471338E+23	1,041871E+23	2,513209E+23
1440	7,356900E+22	7,356944E+22	5,209360E+22	5,209392E+22	1,471384E+23	1,041875E+23	2,513259E+23
1441	7,356897E+22	7,356683E+22	5,209255E+22	5,209281E+22	1,471358E+23	1,041854E+23	2,513212E+23
1442	7,356677E+22	7,356931E+22	5,209281E+22	5,209194E+22	1,471361E+23	1,041847E+23	2,513208E+23
1443	7,356931E+22	7,356976E+22	5,209175E+22	5,209263E+22	1,471391E+23	1,041844E+23	2,513234E+23
1444	7,356796E+22	7,356655E+22	5,209185E+22	5,209080E+22	1,471345E+23	1,041827E+23	2,513172E+23
1445	7,356733E+22	7,356969E+22	5,209215E+22	5,209076E+22	1,471370E+23	1,041829E+23	2,513199E+23
1446	7,356968E+22	7,356824E+22	5,209071E+22	5,209128E+22	1,471379E+23	1,041820E+23	2,513199E+23
1447	7,356741E+22	7,356707E+22	5,209093E+22	5,209065E+22	1,471345E+23	1,041816E+23	2,513161E+23
1448	7,356807E+22	7,357020E+22	5,209128E+22	5,209191E+22	1,471383E+23	1,041832E+23	2,513215E+23
1449	7,356908E+22	7,356751E+22	5,209080E+22	5,209164E+22	1,471366E+23	1,041824E+23	2,513190E+23
1450	7,356690E+22	7,356829E+22	5,209231E+22	5,209118E+22	1,471352E+23	1,041835E+23	2,513187E+23
1451	7,356958E+22	7,356937E+22	5,209251E+22	5,209302E+22	1,471390E+23	1,041855E+23	2,513245E+23
1452	7,356876E+22	7,356614E+22	5,209320E+22	5,209262E+22	1,471349E+23	1,041858E+23	2,513207E+23
1453	7,356642E+22	7,356920E+22	5,209461E+22	5,209356E+22	1,471356E+23	1,041882E+23	2,513238E+23
1454	7,356854E+22	7,356874E+22	5,209386E+22	5,209528E+22	1,471373E+23	1,041891E+23	2,513264E+23
1455	7,356654E+22	7,356614E+22	5,209483E+22	5,209472E+22	1,471327E+23	1,041896E+23	2,513222E+23
1456	7,356667E+22	7,356877E+22	5,209589E+22	5,209548E+22	1,471354E+23	1,041914E+23	2,513268E+23
1457	7,356893E+22	7,356658E+22	5,209484E+22	5,209530E+22	1,471355E+23	1,041901E+23	2,513256E+23
1458	7,356655E+22	7,356678E+22	5,209538E+22	5,209425E+22	1,471333E+23	1,041896E+23	2,513230E+23
1459	7,356831E+22	7,356912E+22	5,209466E+22	5,209544E+22	1,471374E+23	1,041901E+23	2,513275E+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	7,356820E+22	7,356653E+22	5,209399E+22	5,209400E+22	1,471347E+23	1,041880E+23	2,513227E+23
1461	7,356567E+22	7,356870E+22	5,209459E+22	5,209316E+22	1,471344E+23	1,041877E+23	2,513221E+23
1462	7,356863E+22	7,356886E+22	5,209308E+22	5,209373E+22	1,471375E+23	1,041868E+23	2,513243E+23
1463	7,356766E+22	7,356585E+22	5,209301E+22	5,209232E+22	1,471335E+23	1,041853E+23	2,513188E+23
1464	7,356669E+22	7,356863E+22	5,209362E+22	5,209262E+22	1,471353E+23	1,041862E+23	2,513216E+23
1465	7,356901E+22	7,356792E+22	5,209186E+22	5,209301E+22	1,471369E+23	1,041849E+23	2,513218E+23
1466	7,356659E+22	7,356711E+22	5,209231E+22	5,209214E+22	1,471337E+23	1,041844E+23	2,513181E+23
1467	7,356781E+22	7,356914E+22	5,209269E+22	5,209338E+22	1,471369E+23	1,041861E+23	2,513230E+23
1468	7,356911E+22	7,356654E+22	5,209268E+22	5,209273E+22	1,471356E+23	1,041854E+23	2,513210E+23
1469	7,356634E+22	7,356762E+22	5,209431E+22	5,209261E+22	1,471340E+23	1,041869E+23	2,513209E+23
1470	7,356855E+22	7,356893E+22	5,209397E+22	5,209471E+22	1,471375E+23	1,041887E+23	2,513262E+23
1471	7,356756E+22	7,356614E+22	5,209455E+22	5,209476E+22	1,471337E+23	1,041893E+23	2,513230E+23
1472	7,356505E+22	7,356825E+22	5,209653E+22	5,209570E+22	1,471333E+23	1,041922E+23	2,513255E+23
1473	7,356783E+22	7,356786E+22	5,209568E+22	5,209683E+22	1,471357E+23	1,041925E+23	2,513282E+23
1474	7,356621E+22	7,356545E+22	5,209663E+22	5,209598E+22	1,471317E+23	1,041926E+23	2,513243E+23
1475	7,356674E+22	7,356747E+22	5,209730E+22	5,209704E+22	1,471342E+23	1,041943E+23	2,513285E+23
1476	7,356884E+22	7,356603E+22	5,209624E+22	5,209666E+22	1,471349E+23	1,041929E+23	2,513278E+23
1477	7,356554E+22	7,356672E+22	5,209672E+22	5,209581E+22	1,471323E+23	1,041925E+23	2,513248E+23
1478	7,356722E+22	7,356885E+22	5,209572E+22	5,209671E+22	1,471361E+23	1,041924E+23	2,513285E+23
1479	7,356760E+22	7,356608E+22	5,209518E+22	5,209520E+22	1,471337E+23	1,041904E+23	2,513241E+23
1480	7,356508E+22	7,356734E+22	5,209635E+22	5,209445E+22	1,471324E+23	1,041908E+23	2,513232E+23
1481	7,356825E+22	7,356813E+22	5,209449E+22	5,209493E+22	1,471364E+23	1,041894E+23	2,513258E+23
1482	7,356695E+22	7,356567E+22	5,209426E+22	5,209375E+22	1,471326E+23	1,041880E+23	2,513206E+23
1483	7,356599E+22	7,356793E+22	5,209465E+22	5,209450E+22	1,471339E+23	1,041892E+23	2,513231E+23
1484	7,356857E+22	7,356733E+22	5,209327E+22	5,209437E+22	1,471359E+23	1,041876E+23	2,513235E+23
1485	7,356588E+22	7,356644E+22	5,209409E+22	5,209344E+22	1,471323E+23	1,041875E+23	2,513198E+23
1486	7,356736E+22	7,356839E+22	5,209421E+22	5,209456E+22	1,471358E+23	1,041888E+23	2,513245E+23
1487	7,356879E+22	7,356612E+22	5,209419E+22	5,209433E+22	1,471349E+23	1,041885E+23	2,513234E+23
1488	7,356532E+22	7,356681E+22	5,209631E+22	5,209472E+22	1,471321E+23	1,041910E+23	2,513232E+23
1489	7,356730E+22	7,356871E+22	5,209561E+22	5,209670E+22	1,471360E+23	1,041923E+23	2,513283E+23
1490	7,356642E+22	7,356575E+22	5,209638E+22	5,209657E+22	1,471322E+23	1,041930E+23	2,513251E+23
1491	7,356470E+22	7,356663E+22	5,209822E+22	5,209750E+22	1,471313E+23	1,041957E+23	2,513270E+23
1492	7,356803E+22	7,356648E+22	5,209746E+22	5,209808E+22	1,471345E+23	1,041955E+23	2,513300E+23
1493	7,356595E+22	7,356478E+22	5,209824E+22	5,209737E+22	1,471307E+23	1,041956E+23	2,513263E+23
1494	7,356613E+22	7,356728E+22	5,209824E+22	5,209843E+22	1,471334E+23	1,041967E+23	2,513301E+23
1495	7,356797E+22	7,356641E+22	5,209722E+22	5,209818E+22	1,471344E+23	1,041954E+23	2,513298E+23
1496	7,356439E+22	7,356619E+22	5,209849E+22	5,209731E+22	1,471306E+23	1,041958E+23	2,513264E+23
1497	7,356630E+22	7,356831E+22	5,209740E+22	5,209775E+22	1,471346E+23	1,041952E+23	2,513298E+23
1498	7,356703E+22	7,356552E+22	5,209693E+22	5,209635E+22	1,471326E+23	1,041933E+23	2,513258E+23
1499	7,356486E+22	7,356584E+22	5,209763E+22	5,209612E+22	1,471307E+23	1,041937E+23	2,513244E+23
1500	7,356788E+22	7,356725E+22	5,209569E+22	5,209651E+22	1,471351E+23	1,041922E+23	2,513273E+23
1501	7,356605E+22	7,356540E+22	5,209533E+22	5,209541E+22	1,471315E+23	1,041907E+23	2,513222E+23
1502	7,356535E+22	7,356730E+22	5,209547E+22	5,209577E+22	1,471326E+23	1,041912E+23	2,513239E+23
1503	7,356843E+22	7,356686E+22	5,209448E+22	5,209546E+22	1,471353E+23	1,041899E+23	2,513252E+23
1504	7,356559E+22	7,356540E+22	5,209605E+22	5,209470E+22	1,471310E+23	1,041907E+23	2,513217E+23
1505	7,356668E+22	7,356807E+22	5,209600E+22	5,209583E+22	1,471347E+23	1,041918E+23	2,513266E+23
1506	7,356767E+22	7,356624E+22	5,209603E+22	5,209607E+22	1,471339E+23	1,041921E+23	2,513260E+23
1507	7,356417E+22	7,356586E+22	5,209801E+22	5,209701E+22	1,471300E+23	1,041950E+23	2,513250E+23
1508	7,356652E+22	7,356767E+22	5,209759E+22	5,209851E+22	1,471342E+23	1,041961E+23	2,513303E+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							
1509	7,356577E+22	7,356474E+22	5,209834E+22	5,209829E+22	1,471305E+23	1,041966E+23	2,513271E+23
1510	7,356455E+22	7,356551E+22	5,209956E+22	5,209901E+22	1,471301E+23	1,041986E+23	2,513286E+23
1511	7,356804E+22	7,356607E+22	5,209867E+22	5,209969E+22	1,471341E+23	1,041984E+23	2,513325E+23
1512	7,356521E+22	7,356438E+22	5,209983E+22	5,209921E+22	1,471296E+23	1,041990E+23	2,513286E+23
1513	7,356501E+22	7,356757E+22	5,209958E+22	5,209985E+22	1,471326E+23	1,041994E+23	2,513320E+23
1514	7,356699E+22	7,356633E+22	5,209886E+22	5,209937E+22	1,471333E+23	1,041982E+23	2,513316E+23
1515	7,356388E+22	7,356472E+22	5,210013E+22	5,209867E+22	1,471286E+23	1,041988E+23	2,513274E+23
1516	7,356614E+22	7,356700E+22	5,209901E+22	5,209877E+22	1,471331E+23	1,041978E+23	2,513309E+23
1517	7,356636E+22	7,356469E+22	5,209827E+22	5,209775E+22	1,471310E+23	1,041960E+23	2,513271E+23
1518	7,356415E+22	7,356527E+22	5,209824E+22	5,209763E+22	1,471294E+23	1,041959E+23	2,513253E+23
1519	7,356733E+22	7,356713E+22	5,209640E+22	5,209796E+22	1,471345E+23	1,041944E+23	2,513288E+23
1520	7,356538E+22	7,356473E+22	5,209688E+22	5,209675E+22	1,471301E+23	1,041936E+23	2,513237E+23
1521	7,356486E+22	7,356702E+22	5,209701E+22	5,209659E+22	1,471319E+23	1,041936E+23	2,513255E+23
1522	7,356805E+22	7,356663E+22	5,209637E+22	5,209654E+22	1,471347E+23	1,041929E+23	2,513276E+23
1523	7,356508E+22	7,356431E+22	5,209789E+22	5,209660E+22	1,471294E+23	1,041945E+23	2,513239E+23
1524	7,356575E+22	7,356742E+22	5,209784E+22	5,209778E+22	1,471332E+23	1,041956E+23	2,513288E+23
1525	7,356626E+22	7,356579E+22	5,209783E+22	5,209828E+22	1,471321E+23	1,041961E+23	2,513282E+23
1526	7,356341E+22	7,356469E+22	5,209933E+22	5,209887E+22	1,471281E+23	1,041982E+23	2,513263E+23
1527	7,356647E+22	7,356663E+22	5,209902E+22	5,210006E+22	1,471331E+23	1,041991E+23	2,513322E+23
1528	7,356570E+22	7,356364E+22	5,210014E+22	5,209986E+22	1,471293E+23	1,042000E+23	2,513293E+23
1529	7,356412E+22	7,356540E+22	5,210093E+22	5,210032E+22	1,471295E+23	1,042012E+23	2,513308E+23
1530	7,356718E+22	7,356658E+22	5,210022E+22	5,210119E+22	1,471338E+23	1,042014E+23	2,513352E+23
1531	7,356422E+22	7,356381E+22	5,210139E+22	5,210097E+22	1,471280E+23	1,042024E+23	2,513304E+23
1532	7,356410E+22	7,356672E+22	5,210150E+22	5,210103E+22	1,471308E+23	1,042025E+23	2,513333E+23
1533	7,356611E+22	7,356548E+22	5,210074E+22	5,210062E+22	1,471316E+23	1,042014E+23	2,513330E+23
1534	7,356352E+22	7,356333E+22	5,210123E+22	5,209999E+22	1,471269E+23	1,042012E+23	2,513281E+23
1535	7,356593E+22	7,356624E+22	5,209991E+22	5,210028E+22	1,471322E+23	1,042002E+23	2,513324E+23
1536	7,356565E+22	7,356412E+22	5,209934E+22	5,209951E+22	1,471298E+23	1,041988E+23	2,513286E+23
1537	7,356330E+22	7,356533E+22	5,209905E+22	5,209885E+22	1,471286E+23	1,041979E+23	2,513265E+23
1538	7,356686E+22	7,356704E+22	5,209779E+22	5,209891E+22	1,471339E+23	1,041967E+23	2,513306E+23
1539	7,356523E+22	7,356355E+22	5,209851E+22	5,209790E+22	1,471288E+23	1,041964E+23	2,513252E+23
1540	7,356466E+22	7,356617E+22	5,209892E+22	5,209759E+22	1,471308E+23	1,041965E+23	2,513273E+23
1541	7,356705E+22	7,356634E+22	5,209820E+22	5,209818E+22	1,471334E+23	1,041964E+23	2,513298E+23
1542	7,356391E+22	7,356379E+22	5,209914E+22	5,209866E+22	1,471277E+23	1,041978E+23	2,513255E+23
1543	7,356479E+22	7,356695E+22	5,209925E+22	5,209982E+22	1,471317E+23	1,041991E+23	2,513308E+23
1544	7,356539E+22	7,356466E+22	5,209980E+22	5,210029E+22	1,471300E+23	1,042001E+23	2,513301E+23
1545	7,356303E+22	7,356404E+22	5,210093E+22	5,210028E+22	1,471271E+23	1,042012E+23	2,513283E+23
1546	7,356647E+22	7,356612E+22	5,210076E+22	5,210147E+22	1,471326E+23	1,042022E+23	2,513348E+23
1547	7,356540E+22	7,356275E+22	5,210177E+22	5,210173E+22	1,471281E+23	1,042035E+23	2,513316E+23
1548	7,356343E+22	7,356520E+22	5,210255E+22	5,210186E+22	1,471286E+23	1,042044E+23	2,513330E+23
1549	7,356586E+22	7,356640E+22	5,210196E+22	5,210278E+22	1,471323E+23	1,042047E+23	2,513370E+23
1550	7,356341E+22	7,356277E+22	5,210280E+22	5,210235E+22	1,471262E+23	1,042052E+23	2,513313E+23
1551	7,356381E+22	7,356563E+22	5,210291E+22	5,210219E+22	1,471294E+23	1,042051E+23	2,513345E+23
1552	7,356560E+22	7,356428E+22	5,210231E+22	5,210209E+22	1,471299E+23	1,042044E+23	2,513343E+23
1553	7,356284E+22	7,356311E+22	5,210208E+22	5,210125E+22	1,471260E+23	1,042033E+23	2,513293E+23
1554	7,356521E+22	7,356638E+22	5,210090E+22	5,210167E+22	1,471316E+23	1,042026E+23	2,513342E+23
1555	7,356497E+22	7,356349E+22	5,210053E+22	5,210103E+22	1,471285E+23	1,042016E+23	2,513300E+23
1556	7,356293E+22	7,356473E+22	5,210065E+22	5,209974E+22	1,471277E+23	1,042004E+23	2,513280E+23
1557	7,356627E+22	7,356657E+22	5,209964E+22	5,209995E+22	1,471328E+23	1,041996E+23	2,513324E+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							
1558	7,356490E+22	7,356261E+22	5,209987E+22	5,209933E+22	1,471275E+23	1,041992E+23	2,513267E+23
1559	7,356403E+22	7,356566E+22	5,210032E+22	5,209937E+22	1,471297E+23	1,041997E+23	2,513294E+23
1560	7,356579E+22	7,356583E+22	5,209984E+22	5,210046E+22	1,471316E+23	1,042003E+23	2,513319E+23
1561	7,356279E+22	7,356339E+22	5,210041E+22	5,210041E+22	1,471262E+23	1,042008E+23	2,513270E+23
1562	7,356438E+22	7,356618E+22	5,210098E+22	5,210134E+22	1,471306E+23	1,042023E+23	2,513329E+23
1563	7,356543E+22	7,356314E+22	5,210150E+22	5,210186E+22	1,471286E+23	1,042034E+23	2,513319E+23
1564	7,356306E+22	7,356312E+22	5,210266E+22	5,210151E+22	1,471262E+23	1,042042E+23	2,513304E+23
1565	7,356565E+22	7,356607E+22	5,210252E+22	5,210305E+22	1,471317E+23	1,042056E+23	2,513373E+23
1566	7,356442E+22	7,356248E+22	5,210304E+22	5,210348E+22	1,471269E+23	1,042065E+23	2,513334E+23
1567	7,356245E+22	7,356489E+22	5,210416E+22	5,210341E+22	1,471273E+23	1,042076E+23	2,513349E+23
1568	7,356477E+22	7,356552E+22	5,210400E+22	5,210440E+22	1,471303E+23	1,042084E+23	2,513387E+23
1569	7,356265E+22	7,356207E+22	5,210430E+22	5,210359E+22	1,471247E+23	1,042079E+23	2,513326E+23
1570	7,356348E+22	7,356490E+22	5,210441E+22	5,210365E+22	1,471284E+23	1,042081E+23	2,513364E+23
1571	7,356507E+22	7,356326E+22	5,210348E+22	5,210400E+22	1,471283E+23	1,042075E+23	2,513358E+23
1572	7,356228E+22	7,356279E+22	5,210311E+22	5,210270E+22	1,471251E+23	1,042058E+23	2,513309E+23
1573	7,356441E+22	7,356616E+22	5,210219E+22	5,210292E+22	1,471306E+23	1,042051E+23	2,513357E+23
1574	7,356471E+22	7,356261E+22	5,210162E+22	5,210202E+22	1,471273E+23	1,042036E+23	2,513310E+23
1575	7,356298E+22	7,356401E+22	5,210204E+22	5,210058E+22	1,471270E+23	1,042026E+23	2,513296E+23
1576	7,356559E+22	7,356584E+22	5,210138E+22	5,210137E+22	1,471314E+23	1,042027E+23	2,513342E+23
1577	7,356379E+22	7,356265E+22	5,210114E+22	5,210087E+22	1,471264E+23	1,042020E+23	2,513285E+23
1578	7,356298E+22	7,356550E+22	5,210178E+22	5,210120E+22	1,471285E+23	1,042030E+23	2,513315E+23
1579	7,356475E+22	7,356465E+22	5,210154E+22	5,210248E+22	1,471294E+23	1,042040E+23	2,513334E+23
1580	7,356246E+22	7,356236E+22	5,210220E+22	5,210178E+22	1,471248E+23	1,042040E+23	2,513288E+23
1581	7,356407E+22	7,356526E+22	5,210288E+22	5,210274E+22	1,471293E+23	1,042056E+23	2,513350E+23
1582	7,356532E+22	7,356219E+22	5,210289E+22	5,210352E+22	1,471275E+23	1,042064E+23	2,513339E+23
1583	7,356267E+22	7,356290E+22	5,210409E+22	5,210323E+22	1,471256E+23	1,042073E+23	2,513329E+23
1584	7,356432E+22	7,356591E+22	5,210431E+22	5,210510E+22	1,471302E+23	1,042094E+23	2,513396E+23
1585	7,356313E+22	7,356238E+22	5,210459E+22	5,210499E+22	1,471255E+23	1,042096E+23	2,513351E+23
1586	7,356182E+22	7,356412E+22	5,210605E+22	5,210480E+22	1,471259E+23	1,042108E+23	2,513368E+23
1587	7,356429E+22	7,356400E+22	5,210577E+22	5,210601E+22	1,471283E+23	1,042118E+23	2,513401E+23
1588	7,356240E+22	7,356112E+22	5,210573E+22	5,210493E+22	1,471235E+23	1,042107E+23	2,513342E+23
1589	7,356267E+22	7,356458E+22	5,210571E+22	5,210522E+22	1,471272E+23	1,042109E+23	2,513382E+23
1590	7,356444E+22	7,356278E+22	5,210423E+22	5,210556E+22	1,471272E+23	1,042098E+23	2,513370E+23
1591	7,356192E+22	7,356239E+22	5,210424E+22	5,210378E+22	1,471243E+23	1,042080E+23	2,513323E+23
1592	7,356383E+22	7,356556E+22	5,210386E+22	5,210403E+22	1,471294E+23	1,042079E+23	2,513373E+23
1593	7,356424E+22	7,356225E+22	5,210292E+22	5,210283E+22	1,471265E+23	1,042058E+23	2,513322E+23
1594	7,356256E+22	7,356356E+22	5,210362E+22	5,210192E+22	1,471261E+23	1,042055E+23	2,513317E+23
1595	7,356452E+22	7,356507E+22	5,210283E+22	5,210334E+22	1,471296E+23	1,042062E+23	2,513358E+23
1596	7,356276E+22	7,356209E+22	5,210253E+22	5,210264E+22	1,471248E+23	1,042052E+23	2,513300E+23
1597	7,356201E+22	7,356468E+22	5,210352E+22	5,210286E+22	1,471267E+23	1,042064E+23	2,513331E+23
1598	7,356461E+22	7,356319E+22	5,210287E+22	5,210398E+22	1,471278E+23	1,042068E+23	2,513346E+23
1599	7,356270E+22	7,356140E+22	5,210367E+22	5,210301E+22	1,471241E+23	1,042067E+23	2,513308E+23
1600	7,356356E+22	7,356477E+22	5,210458E+22	5,210444E+22	1,471283E+23	1,042090E+23	2,513373E+23
1601	7,356422E+22	7,356257E+22	5,210422E+22	5,210510E+22	1,471268E+23	1,042093E+23	2,513361E+23
1602	7,356159E+22	7,356305E+22	5,210590E+22	5,210506E+22	1,471246E+23	1,042110E+23	2,513356E+23
1603	7,356303E+22	7,356498E+22	5,210643E+22	5,210703E+22	1,471280E+23	1,042135E+23	2,513415E+23
1604	7,356250E+22	7,356138E+22	5,210669E+22	5,210645E+22	1,471239E+23	1,042131E+23	2,513370E+23
1605	7,356128E+22	7,356298E+22	5,210804E+22	5,210635E+22	1,471243E+23	1,042144E+23	2,513387E+23
1606	7,356402E+22	7,356270E+22	5,210692E+22	5,210782E+22	1,471267E+23	1,042147E+23	2,513415E+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	7,356219E+22	7,356069E+22	5,210664E+22	5,210654E+22	1,471229E+23	1,042132E+23	2,513361E+23
1608	7,356184E+22	7,356422E+22	5,210682E+22	5,210687E+22	1,471261E+23	1,042137E+23	2,513397E+23
1609	7,356374E+22	7,356272E+22	5,210522E+22	5,210642E+22	1,471265E+23	1,042116E+23	2,513381E+23
1610	7,356189E+22	7,356190E+22	5,210566E+22	5,210452E+22	1,471238E+23	1,042102E+23	2,513340E+23
1611	7,356327E+22	7,356446E+22	5,210549E+22	5,210512E+22	1,471277E+23	1,042106E+23	2,513383E+23
1612	7,356361E+22	7,356182E+22	5,210444E+22	5,210400E+22	1,471254E+23	1,042084E+23	2,513339E+23
1613	7,356130E+22	7,356324E+22	5,210518E+22	5,210358E+22	1,471245E+23	1,042088E+23	2,513333E+23
1614	7,356344E+22	7,356421E+22	5,210400E+22	5,210526E+22	1,471276E+23	1,042093E+23	2,513369E+23
1615	7,356231E+22	7,356123E+22	5,210394E+22	5,210414E+22	1,471235E+23	1,042081E+23	2,513316E+23
1616	7,356153E+22	7,356363E+22	5,210523E+22	5,210448E+22	1,471252E+23	1,042097E+23	2,513349E+23
1617	7,356432E+22	7,356270E+22	5,210422E+22	5,210524E+22	1,471270E+23	1,042095E+23	2,513365E+23
1618	7,356255E+22	7,356112E+22	5,210527E+22	5,210467E+22	1,471237E+23	1,042099E+23	2,513336E+23
1619	7,356247E+22	7,356438E+22	5,210633E+22	5,210652E+22	1,471268E+23	1,042129E+23	2,513397E+23
1620	7,356319E+22	7,356239E+22	5,210606E+22	5,210684E+22	1,471256E+23	1,042129E+23	2,513385E+23
1621	7,356055E+22	7,356228E+22	5,210814E+22	5,210670E+22	1,471228E+23	1,042148E+23	2,513377E+23
1622	7,356261E+22	7,356342E+22	5,210813E+22	5,210864E+22	1,471260E+23	1,042168E+23	2,513428E+23
1623	7,356250E+22	7,356014E+22	5,210826E+22	5,210790E+22	1,471226E+23	1,042162E+23	2,513388E+23
1624	7,356069E+22	7,356222E+22	5,210946E+22	5,210821E+22	1,471229E+23	1,042177E+23	2,513406E+23
1625	7,356317E+22	7,356273E+22	5,210770E+22	5,210921E+22	1,471259E+23	1,042169E+23	2,513428E+23
1626	7,356163E+22	7,356068E+22	5,210778E+22	5,210786E+22	1,471223E+23	1,042156E+23	2,513379E+23
1627	7,356106E+22	7,356357E+22	5,210833E+22	5,210804E+22	1,471246E+23	1,042164E+23	2,513410E+23
1628	7,356336E+22	7,356218E+22	5,210683E+22	5,210714E+22	1,471255E+23	1,042140E+23	2,513395E+23
1629	7,356130E+22	7,356124E+22	5,210753E+22	5,210561E+22	1,471225E+23	1,042131E+23	2,513357E+23
1630	7,356254E+22	7,356349E+22	5,210669E+22	5,210676E+22	1,471260E+23	1,042135E+23	2,513395E+23
1631	7,356282E+22	7,356134E+22	5,210558E+22	5,210576E+22	1,471242E+23	1,042113E+23	2,513355E+23
1632	7,356016E+22	7,356254E+22	5,210648E+22	5,210558E+22	1,471227E+23	1,042121E+23	2,513348E+23
1633	7,356277E+22	7,356348E+22	5,210512E+22	5,210650E+22	1,471262E+23	1,042116E+23	2,513379E+23
1634	7,356254E+22	7,356042E+22	5,210537E+22	5,210533E+22	1,471230E+23	1,042107E+23	2,513337E+23
1635	7,356131E+22	7,356265E+22	5,210685E+22	5,210593E+22	1,471240E+23	1,042128E+23	2,513367E+23
1636	7,356387E+22	7,356261E+22	5,210586E+22	5,210664E+22	1,471265E+23	1,042125E+23	2,513390E+23
1637	7,356146E+22	7,356116E+22	5,210726E+22	5,210642E+22	1,471226E+23	1,042137E+23	2,513363E+23
1638	7,356129E+22	7,356365E+22	5,210811E+22	5,210846E+22	1,471249E+23	1,042166E+23	2,513415E+23
1639	7,356259E+22	7,356154E+22	5,210810E+22	5,210847E+22	1,471241E+23	1,042166E+23	2,513407E+23
1640	7,355987E+22	7,356099E+22	5,211016E+22	5,210857E+22	1,471209E+23	1,042187E+23	2,513396E+23
1641	7,356205E+22	7,356255E+22	5,210954E+22	5,211016E+22	1,471246E+23	1,042197E+23	2,513443E+23
1642	7,356232E+22	7,355968E+22	5,210943E+22	5,210967E+22	1,471220E+23	1,042191E+23	2,513411E+23
1643	7,355972E+22	7,356169E+22	5,211058E+22	5,211011E+22	1,471214E+23	1,042207E+23	2,513421E+23
1644	7,356249E+22	7,356261E+22	5,210897E+22	5,211043E+22	1,471251E+23	1,042194E+23	2,513445E+23
1645	7,356109E+22	7,356016E+22	5,210952E+22	5,210874E+22	1,471213E+23	1,042183E+23	2,513395E+23
1646	7,356078E+22	7,356242E+22	5,210972E+22	5,210896E+22	1,471232E+23	1,042187E+23	2,513419E+23
1647	7,356319E+22	7,356148E+22	5,210824E+22	5,210812E+22	1,471247E+23	1,042164E+23	2,513410E+23
1648	7,356022E+22	7,356072E+22	5,210889E+22	5,210735E+22	1,471209E+23	1,042162E+23	2,513372E+23
1649	7,356118E+22	7,356334E+22	5,210760E+22	5,210829E+22	1,471245E+23	1,042159E+23	2,513404E+23
1650	7,356215E+22	7,356087E+22	5,210679E+22	5,210740E+22	1,471230E+23	1,042142E+23	2,513372E+23
1651	7,355953E+22	7,356143E+22	5,210800E+22	5,210712E+22	1,471210E+23	1,042151E+23	2,513361E+23
1652	7,356281E+22	7,356268E+22	5,210670E+22	5,210756E+22	1,471255E+23	1,042143E+23	2,513398E+23
1653	7,356240E+22	7,355984E+22	5,210725E+22	5,210661E+22	1,471222E+23	1,042139E+23	2,513361E+23
1654	7,356084E+22	7,356205E+22	5,210824E+22	5,210768E+22	1,471229E+23	1,042159E+23	2,513388E+23
1655	7,356312E+22	7,356244E+22	5,210746E+22	5,210844E+22	1,471256E+23	1,042159E+23	2,513415E+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							
1656	7,356018E+22	7,356064E+22	5,210923E+22	5,210854E+22	1,471208E+23	1,042178E+23	2,513386E+23
1657	7,356033E+22	7,356278E+22	5,210977E+22	5,210989E+22	1,471231E+23	1,042197E+23	2,513428E+23
1658	7,356238E+22	7,356046E+22	5,210984E+22	5,211007E+22	1,471228E+23	1,042199E+23	2,513427E+23
1659	7,355928E+22	7,355985E+22	5,211175E+22	5,211041E+22	1,471191E+23	1,042222E+23	2,513413E+23
1660	7,356147E+22	7,356218E+22	5,211086E+22	5,211172E+22	1,471237E+23	1,042226E+23	2,513462E+23
1661	7,356142E+22	7,355966E+22	5,211100E+22	5,211122E+22	1,471211E+23	1,042222E+23	2,513433E+23
1662	7,355904E+22	7,356104E+22	5,211184E+22	5,211153E+22	1,471201E+23	1,042234E+23	2,513435E+23
1663	7,356222E+22	7,356199E+22	5,211061E+22	5,211138E+22	1,471242E+23	1,042220E+23	2,513462E+23
1664	7,356050E+22	7,355939E+22	5,211125E+22	5,211004E+22	1,471199E+23	1,042213E+23	2,513412E+23
1665	7,356000E+22	7,356179E+22	5,211095E+22	5,211006E+22	1,471218E+23	1,042210E+23	2,513428E+23
1666	7,356257E+22	7,356116E+22	5,210937E+22	5,210980E+22	1,471237E+23	1,042192E+23	2,513429E+23
1667	7,355902E+22	7,356006E+22	5,211000E+22	5,210930E+22	1,471191E+23	1,042193E+23	2,513384E+23
1668	7,356053E+22	7,356271E+22	5,210888E+22	5,210962E+22	1,471232E+23	1,042185E+23	2,513417E+23
1669	7,356196E+22	7,356003E+22	5,210846E+22	5,210845E+22	1,471220E+23	1,042169E+23	2,513389E+23
1670	7,355966E+22	7,356018E+22	5,210925E+22	5,210829E+22	1,471198E+23	1,042175E+23	2,513374E+23
1671	7,356292E+22	7,356220E+22	5,210817E+22	5,210874E+22	1,471251E+23	1,042169E+23	2,513420E+23
1672	7,356145E+22	7,355975E+22	5,210879E+22	5,210845E+22	1,471212E+23	1,042172E+23	2,513384E+23
1673	7,355937E+22	7,356208E+22	5,210966E+22	5,210926E+22	1,471214E+23	1,042189E+23	2,513404E+23
1674	7,356219E+22	7,356214E+22	5,210923E+22	5,211023E+22	1,471243E+23	1,042195E+23	2,513438E+23
1675	7,355909E+22	7,355942E+22	5,211128E+22	5,211045E+22	1,471185E+23	1,042217E+23	2,513402E+23
1676	7,355988E+22	7,356169E+22	5,211172E+22	5,211144E+22	1,471216E+23	1,042232E+23	2,513447E+23
1677	7,356199E+22	7,355958E+22	5,211175E+22	5,211180E+22	1,471216E+23	1,042236E+23	2,513451E+23
1678	7,355879E+22	7,355899E+22	5,211286E+22	5,211243E+22	1,471178E+23	1,042253E+23	2,513431E+23
1679	7,356104E+22	7,356186E+22	5,211213E+22	5,211335E+22	1,471229E+23	1,042255E+23	2,513484E+23
1680	7,356060E+22	7,355922E+22	5,211255E+22	5,211275E+22	1,471198E+23	1,042253E+23	2,513451E+23
1681	7,355848E+22	7,356041E+22	5,211322E+22	5,211228E+22	1,471189E+23	1,042255E+23	2,513444E+23
1682	7,356213E+22	7,356137E+22	5,211206E+22	5,211240E+22	1,471235E+23	1,042245E+23	2,513480E+23
1683	7,355961E+22	7,355866E+22	5,211272E+22	5,211158E+22	1,471183E+23	1,042243E+23	2,513426E+23
1684	7,355901E+22	7,356154E+22	5,211219E+22	5,211150E+22	1,471205E+23	1,042237E+23	2,513442E+23
1685	7,356143E+22	7,356086E+22	5,211088E+22	5,211135E+22	1,471223E+23	1,042222E+23	2,513445E+23
1686	7,355846E+22	7,355904E+22	5,211112E+22	5,211082E+22	1,471175E+23	1,042219E+23	2,513394E+23
1687	7,356064E+22	7,356167E+22	5,211031E+22	5,211069E+22	1,471223E+23	1,042210E+23	2,513433E+23
1688	7,356172E+22	7,355931E+22	5,210998E+22	5,210987E+22	1,471210E+23	1,042198E+23	2,513409E+23
1689	7,355921E+22	7,355981E+22	5,211035E+22	5,210944E+22	1,471190E+23	1,042198E+23	2,513388E+23
1690	7,356222E+22	7,356224E+22	5,210941E+22	5,211047E+22	1,471245E+23	1,042199E+23	2,513443E+23
1691	7,355998E+22	7,355946E+22	5,211044E+22	5,211053E+22	1,471194E+23	1,042210E+23	2,513404E+23
1692	7,355835E+22	7,356140E+22	5,211158E+22	5,211079E+22	1,471197E+23	1,042224E+23	2,513421E+23
1693	7,356154E+22	7,356107E+22	5,211153E+22	5,211169E+22	1,471226E+23	1,042232E+23	2,513458E+23
1694	7,355890E+22	7,355788E+22	5,211286E+22	5,211218E+22	1,471168E+23	1,042250E+23	2,513418E+23
1695	7,355980E+22	7,356072E+22	5,211329E+22	5,211312E+22	1,471205E+23	1,042264E+23	2,513469E+23
1696	7,356108E+22	7,355931E+22	5,211318E+22	5,211387E+22	1,471204E+23	1,042270E+23	2,513474E+23
1697	7,355782E+22	7,355884E+22	5,211401E+22	5,211387E+22	1,471167E+23	1,042279E+23	2,513445E+23
1698	7,356059E+22	7,356163E+22	5,211366E+22	5,211471E+22	1,471222E+23	1,042284E+23	2,513506E+23
1699	7,355984E+22	7,355850E+22	5,211439E+22	5,211412E+22	1,471183E+23	1,042285E+23	2,513469E+23
1700	7,355799E+22	7,355977E+22	5,211501E+22	5,211334E+22	1,471178E+23	1,042283E+23	2,513461E+23
1701	7,356137E+22	7,356088E+22	5,211385E+22	5,211383E+22	1,471223E+23	1,042277E+23	2,513499E+23
1702	7,355870E+22	7,355784E+22	5,211372E+22	5,211352E+22	1,471165E+23	1,042272E+23	2,513438E+23
1703	7,355841E+22	7,356083E+22	5,211337E+22	5,211313E+22	1,471192E+23	1,042265E+23	2,513457E+23
1704	7,356078E+22	7,355998E+22	5,211214E+22	5,211285E+22	1,471208E+23	1,042250E+23	2,513458E+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	7,355828E+22	7,355808E+22	5,211206E+22	5,211158E+22	1,471164E+23	1,042236E+23	2,513400E+23
1706	7,356089E+22	7,356118E+22	5,211135E+22	5,211168E+22	1,471221E+23	1,042230E+23	2,513451E+23
1707	7,356092E+22	7,355899E+22	5,211131E+22	5,211132E+22	1,471199E+23	1,042226E+23	2,513425E+23
1708	7,355812E+22	7,355993E+22	5,211188E+22	5,211083E+22	1,471181E+23	1,042227E+23	2,513408E+23
1709	7,356089E+22	7,356210E+22	5,211148E+22	5,211203E+22	1,471230E+23	1,042235E+23	2,513465E+23
1710	7,355905E+22	7,355831E+22	5,211227E+22	5,211237E+22	1,471174E+23	1,042246E+23	2,513420E+23
1711	7,355812E+22	7,356000E+22	5,211363E+22	5,211240E+22	1,471181E+23	1,042260E+23	2,513442E+23
1712	7,356100E+22	7,355988E+22	5,211341E+22	5,211369E+22	1,471209E+23	1,042271E+23	2,513480E+23
1713	7,355843E+22	7,355711E+22	5,211403E+22	5,211389E+22	1,471155E+23	1,042279E+23	2,513435E+23
1714	7,355940E+22	7,356058E+22	5,211437E+22	5,211511E+22	1,471200E+23	1,042295E+23	2,513495E+23
1715	7,356000E+22	7,355908E+22	5,211469E+22	5,211579E+22	1,471191E+23	1,042305E+23	2,513496E+23
1716	7,355726E+22	7,355845E+22	5,211580E+22	5,211497E+22	1,471157E+23	1,042308E+23	2,513465E+23
1717	7,356010E+22	7,356098E+22	5,211585E+22	5,211570E+22	1,471211E+23	1,042315E+23	2,513526E+23
1718	7,355944E+22	7,355749E+22	5,211595E+22	5,211557E+22	1,471169E+23	1,042315E+23	2,513484E+23
1719	7,355749E+22	7,355895E+22	5,211649E+22	5,211486E+22	1,471164E+23	1,042313E+23	2,513478E+23
1720	7,355997E+22	7,356051E+22	5,211515E+22	5,211578E+22	1,471205E+23	1,042309E+23	2,513514E+23
1721	7,355772E+22	7,355726E+22	5,211451E+22	5,211485E+22	1,471150E+23	1,042294E+23	2,513443E+23
1722	7,355820E+22	7,356006E+22	5,211438E+22	5,211437E+22	1,471183E+23	1,042287E+23	2,513470E+23
1723	7,356037E+22	7,355913E+22	5,211353E+22	5,211406E+22	1,471195E+23	1,042276E+23	2,513471E+23
1724	7,355821E+22	7,355757E+22	5,211344E+22	5,211242E+22	1,471158E+23	1,042259E+23	2,513416E+23
1725	7,356029E+22	7,356106E+22	5,211305E+22	5,211289E+22	1,471214E+23	1,042259E+23	2,513473E+23
1726	7,355996E+22	7,355864E+22	5,211257E+22	5,211315E+22	1,471186E+23	1,042257E+23	2,513443E+23
1727	7,355731E+22	7,355921E+22	5,211366E+22	5,211251E+22	1,471165E+23	1,042262E+23	2,513427E+23
1728	7,355981E+22	7,356111E+22	5,211348E+22	5,211382E+22	1,471209E+23	1,042273E+23	2,513482E+23
1729	7,355863E+22	7,355700E+22	5,211376E+22	5,211376E+22	1,471156E+23	1,042275E+23	2,513431E+23
1730	7,355815E+22	7,355906E+22	5,211500E+22	5,211417E+22	1,471172E+23	1,042292E+23	2,513464E+23
1731	7,356018E+22	7,355936E+22	5,211487E+22	5,211578E+22	1,471195E+23	1,042306E+23	2,513502E+23
1732	7,355759E+22	7,355717E+22	5,211549E+22	5,211552E+22	1,471148E+23	1,042310E+23	2,513458E+23
1733	7,355853E+22	7,356057E+22	5,211638E+22	5,211658E+22	1,471191E+23	1,042330E+23	2,513521E+23
1734	7,355937E+22	7,355827E+22	5,211651E+22	5,211734E+22	1,471176E+23	1,042338E+23	2,513515E+23
1735	7,355709E+22	7,355746E+22	5,211792E+22	5,211629E+22	1,471145E+23	1,042342E+23	2,513488E+23
1736	7,355925E+22	7,356013E+22	5,211770E+22	5,211736E+22	1,471194E+23	1,042351E+23	2,513544E+23
1737	7,355851E+22	7,355670E+22	5,211699E+22	5,211717E+22	1,471152E+23	1,042342E+23	2,513494E+23
1738	7,355679E+22	7,355854E+22	5,211728E+22	5,211671E+22	1,471153E+23	1,042340E+23	2,513493E+23
1739	7,355891E+22	7,355974E+22	5,211627E+22	5,211744E+22	1,471187E+23	1,042337E+23	2,513524E+23
1740	7,355749E+22	7,355651E+22	5,211576E+22	5,211561E+22	1,471140E+23	1,042314E+23	2,513454E+23
1741	7,355827E+22	7,355940E+22	5,211591E+22	5,211500E+22	1,471177E+23	1,042309E+23	2,513486E+23
1742	7,356022E+22	7,355841E+22	5,211468E+22	5,211518E+22	1,471186E+23	1,042299E+23	2,513485E+23
1743	7,355781E+22	7,355726E+22	5,211491E+22	5,211371E+22	1,471151E+23	1,042286E+23	2,513437E+23
1744	7,355874E+22	7,356099E+22	5,211469E+22	5,211462E+22	1,471197E+23	1,042293E+23	2,513490E+23
1745	7,355876E+22	7,355805E+22	5,211401E+22	5,211466E+22	1,471168E+23	1,042287E+23	2,513455E+23
1746	7,355685E+22	7,355828E+22	5,211524E+22	5,211422E+22	1,471151E+23	1,042295E+23	2,513446E+23
1747	7,355906E+22	7,355993E+22	5,211533E+22	5,211573E+22	1,471190E+23	1,042311E+23	2,513501E+23
1748	7,355837E+22	7,355623E+22	5,211536E+22	5,211535E+22	1,471146E+23	1,042307E+23	2,513453E+23
1749	7,355764E+22	7,355874E+22	5,211666E+22	5,211601E+22	1,471164E+23	1,042327E+23	2,513490E+23
1750	7,355943E+22	7,355900E+22	5,211619E+22	5,211789E+22	1,471184E+23	1,042341E+23	2,513525E+23
1751	7,355725E+22	7,355651E+22	5,211734E+22	5,211707E+22	1,471138E+23	1,042344E+23	2,513482E+23
1752	7,355768E+22	7,355980E+22	5,211852E+22	5,211798E+22	1,471175E+23	1,042365E+23	2,513540E+23
1753	7,355898E+22	7,355729E+22	5,211807E+22	5,211843E+22	1,471163E+23	1,042365E+23	2,513528E+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	7,355674E+22	7,355668E+22	5,211925E+22	5,211787E+22	1,471134E+23	1,042371E+23	2,513505E+23
1755	7,355786E+22	7,355960E+22	5,211911E+22	5,211930E+22	1,471175E+23	1,042384E+23	2,513559E+23
1756	7,355744E+22	7,355643E+22	5,211819E+22	5,211862E+22	1,471139E+23	1,042368E+23	2,513507E+23
1757	7,355609E+22	7,355803E+22	5,211879E+22	5,211795E+22	1,471141E+23	1,042367E+23	2,513509E+23
1758	7,355867E+22	7,355871E+22	5,211752E+22	5,211866E+22	1,471174E+23	1,042362E+23	2,513536E+23
1759	7,355779E+22	7,355566E+22	5,211729E+22	5,211651E+22	1,471133E+23	1,042338E+23	2,513471E+23
1760	7,355770E+22	7,355897E+22	5,211742E+22	5,211623E+22	1,471167E+23	1,042337E+23	2,513503E+23
1761	7,355942E+22	7,355819E+22	5,211562E+22	5,211652E+22	1,471176E+23	1,042321E+23	2,513497E+23
1762	7,355696E+22	7,355715E+22	5,211598E+22	5,211552E+22	1,471141E+23	1,042315E+23	2,513456E+23
1763	7,355734E+22	7,356028E+22	5,211635E+22	5,211644E+22	1,471176E+23	1,042328E+23	2,513504E+23
1764	7,355817E+22	7,355711E+22	5,211575E+22	5,211591E+22	1,471153E+23	1,042317E+23	2,513469E+23
1765	7,355674E+22	7,355732E+22	5,211707E+22	5,211559E+22	1,471141E+23	1,042327E+23	2,513467E+23
1766	7,355881E+22	7,355884E+22	5,211669E+22	5,211758E+22	1,471176E+23	1,042343E+23	2,513519E+23
1767	7,355807E+22	7,355576E+22	5,211692E+22	5,211710E+22	1,471138E+23	1,042340E+23	2,513478E+23
1768	7,355653E+22	7,355863E+22	5,211831E+22	5,211778E+22	1,471152E+23	1,042361E+23	2,513513E+23
1769	7,355860E+22	7,355840E+22	5,211774E+22	5,211926E+22	1,471170E+23	1,042370E+23	2,513540E+23
1770	7,355695E+22	7,355587E+22	5,211912E+22	5,211856E+22	1,471128E+23	1,042377E+23	2,513505E+23
1771	7,355674E+22	7,355885E+22	5,212055E+22	5,211963E+22	1,471156E+23	1,042402E+23	2,513558E+23
1772	7,355824E+22	7,355667E+22	5,211980E+22	5,211991E+22	1,471149E+23	1,042397E+23	2,513546E+23
1773	7,355586E+22	7,355633E+22	5,212076E+22	5,211968E+22	1,471122E+23	1,042404E+23	2,513526E+23
1774	7,355685E+22	7,355882E+22	5,212020E+22	5,212128E+22	1,471157E+23	1,042415E+23	2,513572E+23
1775	7,355723E+22	7,355547E+22	5,211963E+22	5,211992E+22	1,471127E+23	1,042396E+23	2,513523E+23
1776	7,355574E+22	7,355717E+22	5,212027E+22	5,211897E+22	1,471129E+23	1,042392E+23	2,513521E+23
1777	7,355869E+22	7,355790E+22	5,211851E+22	5,211944E+22	1,471166E+23	1,042380E+23	2,513545E+23
1778	7,355769E+22	7,355538E+22	5,211823E+22	5,211773E+22	1,471131E+23	1,042360E+23	2,513490E+23
1779	7,355626E+22	7,355897E+22	5,211876E+22	5,211783E+22	1,471152E+23	1,042366E+23	2,513518E+23
1780	7,355815E+22	7,355822E+22	5,211707E+22	5,211782E+22	1,471164E+23	1,042349E+23	2,513513E+23
1781	7,355606E+22	7,355657E+22	5,211784E+22	5,211698E+22	1,471126E+23	1,042348E+23	2,513475E+23
1782	7,355678E+22	7,355896E+22	5,211804E+22	5,211813E+22	1,471157E+23	1,042362E+23	2,513519E+23
1783	7,355835E+22	7,355574E+22	5,211751E+22	5,211740E+22	1,471141E+23	1,042349E+23	2,513490E+23
1784	7,355618E+22	7,355654E+22	5,211863E+22	5,211734E+22	1,471127E+23	1,042360E+23	2,513487E+23
1785	7,355826E+22	7,355841E+22	5,211765E+22	5,211928E+22	1,471167E+23	1,042369E+23	2,513536E+23
1786	7,355755E+22	7,355561E+22	5,211809E+22	5,211889E+22	1,471132E+23	1,042370E+23	2,513501E+23
1787	7,355542E+22	7,355807E+22	5,212026E+22	5,211938E+22	1,471135E+23	1,042396E+23	2,513531E+23
1788	7,355807E+22	7,355778E+22	5,211975E+22	5,212030E+22	1,471158E+23	1,042401E+23	2,513559E+23
1789	7,355649E+22	7,355522E+22	5,212120E+22	5,212000E+22	1,471117E+23	1,042412E+23	2,513529E+23
1790	7,355580E+22	7,355798E+22	5,212215E+22	5,212162E+22	1,471138E+23	1,042438E+23	2,513576E+23
1791	7,355743E+22	7,355602E+22	5,212140E+22	5,212180E+22	1,471134E+23	1,042432E+23	2,513566E+23
1792	7,355465E+22	7,355584E+22	5,212227E+22	5,212145E+22	1,471105E+23	1,042437E+23	2,513542E+23
1793	7,355642E+22	7,355785E+22	5,212131E+22	5,212254E+22	1,471143E+23	1,042438E+23	2,513581E+23
1794	7,355739E+22	7,355481E+22	5,212076E+22	5,212108E+22	1,471122E+23	1,042418E+23	2,513540E+23
1795	7,355529E+22	7,355655E+22	5,212168E+22	5,212017E+22	1,471118E+23	1,042419E+23	2,513537E+23
1796	7,355812E+22	7,355779E+22	5,211978E+22	5,212044E+22	1,471159E+23	1,042402E+23	2,513561E+23
1797	7,355683E+22	7,355558E+22	5,211957E+22	5,211923E+22	1,471124E+23	1,042388E+23	2,513512E+23
1798	7,355506E+22	7,355828E+22	5,212007E+22	5,211957E+22	1,471133E+23	1,042396E+23	2,513530E+23
1799	7,355765E+22	7,355706E+22	5,211888E+22	5,211914E+22	1,471147E+23	1,042380E+23	2,513527E+23
1800	7,355558E+22	7,355541E+22	5,211951E+22	5,211823E+22	1,471110E+23	1,042377E+23	2,513487E+23
1801	7,355672E+22	7,355759E+22	5,211912E+22	5,211941E+22	1,471143E+23	1,042385E+23	2,513528E+23
1802	7,355821E+22	7,355535E+22	5,211849E+22	5,211909E+22	1,471136E+23	1,042376E+23	2,513511E+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							
1803	7,355501E+22	7,355645E+22	5,211996E+22	5,211919E+22	1,471115E+23	1,042391E+23	2,513506E+23
1804	7,355723E+22	7,355844E+22	5,211928E+22	5,212062E+22	1,471157E+23	1,042399E+23	2,513556E+23
1805	7,355686E+22	7,355541E+22	5,212019E+22	5,212035E+22	1,471123E+23	1,042405E+23	2,513528E+23
1806	7,355464E+22	7,355704E+22	5,212237E+22	5,212110E+22	1,471117E+23	1,042435E+23	2,513552E+23
1807	7,355770E+22	7,355668E+22	5,212200E+22	5,212201E+22	1,471144E+23	1,042440E+23	2,513584E+23
1808	7,355544E+22	7,355451E+22	5,212305E+22	5,212204E+22	1,471099E+23	1,042451E+23	2,513550E+23
1809	7,355491E+22	7,355716E+22	5,212321E+22	5,212367E+22	1,471121E+23	1,042469E+23	2,513589E+23
1810	7,355695E+22	7,355545E+22	5,212242E+22	5,212368E+22	1,471124E+23	1,042461E+23	2,513585E+23
1811	7,355400E+22	7,355497E+22	5,212370E+22	5,212286E+22	1,471090E+23	1,042466E+23	2,513555E+23
1812	7,355644E+22	7,355721E+22	5,212268E+22	5,212319E+22	1,471137E+23	1,042459E+23	2,513595E+23
1813	7,355737E+22	7,355458E+22	5,212216E+22	5,212200E+22	1,471119E+23	1,042442E+23	2,513561E+23
1814	7,355446E+22	7,355623E+22	5,212296E+22	5,212158E+22	1,471107E+23	1,042445E+23	2,513552E+23
1815	7,355723E+22	7,355753E+22	5,212127E+22	5,212176E+22	1,471148E+23	1,042430E+23	2,513578E+23
1816	7,355539E+22	7,355511E+22	5,212123E+22	5,212066E+22	1,471105E+23	1,042419E+23	2,513524E+23
1817	7,355438E+22	7,355705E+22	5,212138E+22	5,212089E+22	1,471114E+23	1,042423E+23	2,513537E+23
1818	7,355756E+22	7,355598E+22	5,212013E+22	5,212061E+22	1,471135E+23	1,042407E+23	2,513543E+23
1819	7,355504E+22	7,355446E+22	5,212092E+22	5,211987E+22	1,471095E+23	1,042408E+23	2,513503E+23
1820	7,355626E+22	7,355730E+22	5,212027E+22	5,212082E+22	1,471136E+23	1,042411E+23	2,513547E+23
1821	7,355751E+22	7,355560E+22	5,211976E+22	5,212085E+22	1,471131E+23	1,042406E+23	2,513537E+23
1822	7,355402E+22	7,355597E+22	5,212159E+22	5,212098E+22	1,471100E+23	1,042426E+23	2,513526E+23
1823	7,355681E+22	7,355753E+22	5,212154E+22	5,212194E+22	1,471143E+23	1,042435E+23	2,513578E+23
1824	7,355617E+22	7,355456E+22	5,212249E+22	5,212179E+22	1,471107E+23	1,042443E+23	2,513550E+23
1825	7,355417E+22	7,355582E+22	5,212398E+22	5,212284E+22	1,471100E+23	1,042468E+23	2,513568E+23
1826	7,355699E+22	7,355616E+22	5,212336E+22	5,212412E+22	1,471132E+23	1,042475E+23	2,513606E+23
1827	7,355411E+22	7,355404E+22	5,212449E+22	5,212419E+22	1,471081E+23	1,042487E+23	2,513568E+23
1828	7,355412E+22	7,355659E+22	5,212464E+22	5,212507E+22	1,471107E+23	1,042497E+23	2,513604E+23
1829	7,355677E+22	7,355508E+22	5,212399E+22	5,212497E+22	1,471118E+23	1,042490E+23	2,513608E+23
1830	7,355384E+22	7,355402E+22	5,212519E+22	5,212409E+22	1,471079E+23	1,042493E+23	2,513571E+23
1831	7,355637E+22	7,355647E+22	5,212440E+22	5,212423E+22	1,471128E+23	1,042486E+23	2,513615E+23
1832	7,355637E+22	7,355453E+22	5,212362E+22	5,212332E+22	1,471109E+23	1,042469E+23	2,513578E+23
1833	7,355338E+22	7,355564E+22	5,212389E+22	5,212313E+22	1,471090E+23	1,042470E+23	2,513560E+23
1834	7,355633E+22	7,355694E+22	5,212244E+22	5,212329E+22	1,471133E+23	1,042457E+23	2,513590E+23
1835	7,355452E+22	7,355400E+22	5,212272E+22	5,212208E+22	1,471085E+23	1,042448E+23	2,513533E+23
1836	7,355418E+22	7,355598E+22	5,212268E+22	5,212187E+22	1,471102E+23	1,042445E+23	2,513547E+23
1837	7,355746E+22	7,355559E+22	5,212131E+22	5,212202E+22	1,471130E+23	1,042433E+23	2,513564E+23
1838	7,355429E+22	7,355407E+22	5,212207E+22	5,212161E+22	1,471084E+23	1,042437E+23	2,513520E+23
1839	7,355559E+22	7,355708E+22	5,212190E+22	5,212231E+22	1,471127E+23	1,042442E+23	2,513569E+23
1840	7,355641E+22	7,355541E+22	5,212177E+22	5,212228E+22	1,471118E+23	1,042441E+23	2,513559E+23
1841	7,355348E+22	7,355491E+22	5,212344E+22	5,212249E+22	1,471084E+23	1,042459E+23	2,513543E+23
1842	7,355647E+22	7,355661E+22	5,212344E+22	5,212363E+22	1,471131E+23	1,042471E+23	2,513602E+23
1843	7,355524E+22	7,355360E+22	5,212445E+22	5,212389E+22	1,471088E+23	1,042483E+23	2,513572E+23
1844	7,355333E+22	7,355526E+22	5,212544E+22	5,212476E+22	1,471086E+23	1,042502E+23	2,513588E+23
1845	7,355619E+22	7,355593E+22	5,212466E+22	5,212622E+22	1,471121E+23	1,042509E+23	2,513630E+23
1846	7,355337E+22	7,355315E+22	5,212596E+22	5,212598E+22	1,471065E+23	1,042519E+23	2,513585E+23
1847	7,355424E+22	7,355553E+22	5,212640E+22	5,212607E+22	1,471098E+23	1,042525E+23	2,513622E+23
1848	7,355644E+22	7,355447E+22	5,212571E+22	5,212585E+22	1,471109E+23	1,042516E+23	2,513625E+23
1849	7,355352E+22	7,355334E+22	5,212635E+22	5,212528E+22	1,471069E+23	1,042516E+23	2,513585E+23
1850	7,355550E+22	7,355640E+22	5,212551E+22	5,212568E+22	1,471119E+23	1,042512E+23	2,513631E+23
1851	7,355475E+22	7,355429E+22	5,212506E+22	5,212499E+22	1,471090E+23	1,042500E+23	2,513591E+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							
1852	7,355232E+22	7,355497E+22	5,212526E+22	5,212432E+22	1,471073E+23	1,042496E+23	2,513569E+23
1853	7,355583E+22	7,355625E+22	5,212384E+22	5,212467E+22	1,471121E+23	1,042485E+23	2,513606E+23
1854	7,355420E+22	7,355277E+22	5,212409E+22	5,212359E+22	1,471070E+23	1,042477E+23	2,513546E+23
1855	7,355425E+22	7,355500E+22	5,212411E+22	5,212321E+22	1,471093E+23	1,042473E+23	2,513566E+23
1856	7,355672E+22	7,355552E+22	5,212267E+22	5,212353E+22	1,471122E+23	1,042462E+23	2,513584E+23
1857	7,355370E+22	7,355359E+22	5,212312E+22	5,212325E+22	1,471073E+23	1,042464E+23	2,513537E+23
1858	7,355502E+22	7,355659E+22	5,212350E+22	5,212373E+22	1,471116E+23	1,042472E+23	2,513588E+23
1859	7,355566E+22	7,355455E+22	5,212384E+22	5,212376E+22	1,471102E+23	1,042476E+23	2,513578E+23
1860	7,355303E+22	7,355391E+22	5,212530E+22	5,212382E+22	1,471069E+23	1,042491E+23	2,513561E+23
1861	7,355581E+22	7,355627E+22	5,212509E+22	5,212560E+22	1,471121E+23	1,042507E+23	2,513628E+23
1862	7,355410E+22	7,355295E+22	5,212594E+22	5,212613E+22	1,471071E+23	1,042521E+23	2,513591E+23
1863	7,355256E+22	7,355449E+22	5,212716E+22	5,212657E+22	1,471070E+23	1,042537E+23	2,513608E+23
1864	7,355535E+22	7,355543E+22	5,212652E+22	5,212765E+22	1,471108E+23	1,042542E+23	2,513650E+23
1865	7,355327E+22	7,355201E+22	5,212739E+22	5,212730E+22	1,471053E+23	1,042547E+23	2,513600E+23
1866	7,355419E+22	7,355485E+22	5,212794E+22	5,212730E+22	1,471090E+23	1,042552E+23	2,513643E+23
1867	7,355562E+22	7,355408E+22	5,212728E+22	5,212738E+22	1,471097E+23	1,042547E+23	2,513644E+23
1868	7,355246E+22	7,355319E+22	5,212753E+22	5,212671E+22	1,471057E+23	1,042542E+23	2,513599E+23
1869	7,355432E+22	7,355640E+22	5,212667E+22	5,212736E+22	1,471107E+23	1,042540E+23	2,513648E+23
1870	7,355374E+22	7,355320E+22	5,212653E+22	5,212654E+22	1,471069E+23	1,042531E+23	2,513600E+23
1871	7,355233E+22	7,355354E+22	5,212690E+22	5,212534E+22	1,471059E+23	1,042522E+23	2,513581E+23
1872	7,355563E+22	7,355538E+22	5,212533E+22	5,212569E+22	1,471110E+23	1,042510E+23	2,513620E+23
1873	7,355413E+22	7,355197E+22	5,212493E+22	5,212497E+22	1,471061E+23	1,042499E+23	2,513560E+23
1874	7,355378E+22	7,355496E+22	5,212508E+22	5,212465E+22	1,471087E+23	1,042497E+23	2,513585E+23
1875	7,355554E+22	7,355542E+22	5,212420E+22	5,212509E+22	1,471110E+23	1,042493E+23	2,513602E+23
1876	7,355294E+22	7,355320E+22	5,212484E+22	5,212444E+22	1,471061E+23	1,042493E+23	2,513554E+23
1877	7,355444E+22	7,355612E+22	5,212535E+22	5,212523E+22	1,471106E+23	1,042506E+23	2,513611E+23
1878	7,355488E+22	7,355344E+22	5,212588E+22	5,212566E+22	1,471083E+23	1,042515E+23	2,513599E+23
1879	7,355258E+22	7,355290E+22	5,212717E+22	5,212570E+22	1,471055E+23	1,042529E+23	2,513583E+23
1880	7,355460E+22	7,355584E+22	5,212674E+22	5,212762E+22	1,471104E+23	1,042544E+23	2,513648E+23
1881	7,355341E+22	7,355204E+22	5,212714E+22	5,212817E+22	1,471055E+23	1,042553E+23	2,513608E+23
1882	7,355234E+22	7,355360E+22	5,212863E+22	5,212805E+22	1,471059E+23	1,042567E+23	2,513626E+23
1883	7,355498E+22	7,355455E+22	5,212833E+22	5,212895E+22	1,471095E+23	1,042573E+23	2,513668E+23
1884	7,355308E+22	7,355147E+22	5,212886E+22	5,212829E+22	1,471045E+23	1,042571E+23	2,513617E+23
1885	7,355346E+22	7,355497E+22	5,212925E+22	5,212878E+22	1,471084E+23	1,042580E+23	2,513665E+23
1886	7,355422E+22	7,355381E+22	5,212877E+22	5,212915E+22	1,471080E+23	1,042579E+23	2,513659E+23
1887	7,355151E+22	7,355249E+22	5,212920E+22	5,212813E+22	1,471040E+23	1,042573E+23	2,513613E+23
1888	7,355331E+22	7,355566E+22	5,212846E+22	5,212857E+22	1,471090E+23	1,042570E+23	2,513660E+23
1889	7,355368E+22	7,355178E+22	5,212771E+22	5,212788E+22	1,471055E+23	1,042556E+23	2,513610E+23
1890	7,355248E+22	7,355253E+22	5,212803E+22	5,212661E+22	1,471050E+23	1,042546E+23	2,513597E+23
1891	7,355513E+22	7,355493E+22	5,212651E+22	5,212722E+22	1,471101E+23	1,042537E+23	2,513638E+23
1892	7,355347E+22	7,355195E+22	5,212578E+22	5,212629E+22	1,471054E+23	1,042521E+23	2,513575E+23
1893	7,355295E+22	7,355521E+22	5,212624E+22	5,212612E+22	1,471082E+23	1,042524E+23	2,513605E+23
1894	7,355469E+22	7,355467E+22	5,212597E+22	5,212646E+22	1,471094E+23	1,042524E+23	2,513618E+23
1895	7,355265E+22	7,355202E+22	5,212692E+22	5,212563E+22	1,471047E+23	1,042525E+23	2,513572E+23
1896	7,355360E+22	7,355543E+22	5,212739E+22	5,212669E+22	1,471090E+23	1,042541E+23	2,513631E+23
1897	7,355418E+22	7,355245E+22	5,212722E+22	5,212774E+22	1,471066E+23	1,042550E+23	2,513616E+23
1898	7,355176E+22	7,355233E+22	5,212855E+22	5,212774E+22	1,471041E+23	1,042563E+23	2,513604E+23
1899	7,355356E+22	7,355517E+22	5,212844E+22	5,212955E+22	1,471087E+23	1,042580E+23	2,513667E+23
1900	7,355299E+22	7,355134E+22	5,212870E+22	5,212946E+22	1,471043E+23	1,042582E+23	2,513625E+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	7,355222E+22	7,355326E+22	5,213019E+22	5,212944E+22	1,471055E+23	1,042596E+23	2,513651E+23
1902	7,355447E+22	7,355379E+22	5,213019E+22	5,213052E+22	1,471083E+23	1,042607E+23	2,513690E+23
1903	7,355254E+22	7,355102E+22	5,213064E+22	5,212982E+22	1,471036E+23	1,042605E+23	2,513640E+23
1904	7,355206E+22	7,355494E+22	5,213091E+22	5,213037E+22	1,471070E+23	1,042613E+23	2,513683E+23
1905	7,355329E+22	7,355286E+22	5,213003E+22	5,213090E+22	1,471062E+23	1,042609E+23	2,513671E+23
1906	7,355123E+22	7,355128E+22	5,213059E+22	5,212940E+22	1,471025E+23	1,042600E+23	2,513625E+23
1907	7,355299E+22	7,355440E+22	5,212991E+22	5,212981E+22	1,471074E+23	1,042597E+23	2,513671E+23
1908	7,355363E+22	7,355116E+22	5,212860E+22	5,212891E+22	1,471048E+23	1,042575E+23	2,513623E+23
1909	7,355212E+22	7,355275E+22	5,212866E+22	5,212799E+22	1,471049E+23	1,042566E+23	2,513615E+23
1910	7,355402E+22	7,355483E+22	5,212773E+22	5,212872E+22	1,471088E+23	1,042564E+23	2,513653E+23
1911	7,355275E+22	7,355168E+22	5,212743E+22	5,212740E+22	1,471044E+23	1,042548E+23	2,513593E+23
1912	7,355191E+22	7,355473E+22	5,212829E+22	5,212714E+22	1,471066E+23	1,042554E+23	2,513621E+23
1913	7,355424E+22	7,355340E+22	5,212770E+22	5,212804E+22	1,471076E+23	1,042557E+23	2,513634E+23
1914	7,355234E+22	7,355089E+22	5,212862E+22	5,212738E+22	1,471032E+23	1,042560E+23	2,513592E+23
1915	7,355260E+22	7,355461E+22	5,212901E+22	5,212886E+22	1,471072E+23	1,042579E+23	2,513651E+23
1916	7,355330E+22	7,355201E+22	5,212832E+22	5,212968E+22	1,471053E+23	1,042580E+23	2,513633E+23
1917	7,355120E+22	7,355204E+22	5,212972E+22	5,212956E+22	1,471032E+23	1,042593E+23	2,513625E+23
1918	7,355314E+22	7,355415E+22	5,213032E+22	5,213104E+22	1,471073E+23	1,042614E+23	2,513686E+23
1919	7,355310E+22	7,355051E+22	5,213067E+22	5,213054E+22	1,471036E+23	1,042612E+23	2,513648E+23
1920	7,355154E+22	7,355308E+22	5,213218E+22	5,213065E+22	1,471046E+23	1,042628E+23	2,513674E+23
1921	7,355361E+22	7,355333E+22	5,213162E+22	5,213236E+22	1,471069E+23	1,042640E+23	2,513709E+23
1922	7,355146E+22	7,355061E+22	5,213219E+22	5,213161E+22	1,471021E+23	1,042638E+23	2,513659E+23
1923	7,355075E+22	7,355417E+22	5,213267E+22	5,213210E+22	1,471049E+23	1,042648E+23	2,513697E+23
1924	7,355271E+22	7,355183E+22	5,213130E+22	5,213216E+22	1,471045E+23	1,042635E+23	2,513680E+23
1925	7,355116E+22	7,355063E+22	5,213159E+22	5,213077E+22	1,471018E+23	1,042624E+23	2,513641E+23
1926	7,355272E+22	7,355350E+22	5,213112E+22	5,213122E+22	1,471062E+23	1,042623E+23	2,513686E+23
1927	7,355327E+22	7,355089E+22	5,212968E+22	5,213012E+22	1,471042E+23	1,042598E+23	2,513639E+23
1928	7,355104E+22	7,355303E+22	5,212996E+22	5,212913E+22	1,471041E+23	1,042591E+23	2,513632E+23
1929	7,355331E+22	7,355409E+22	5,212902E+22	5,213004E+22	1,471074E+23	1,042591E+23	2,513665E+23
1930	7,355244E+22	7,355065E+22	5,212921E+22	5,212850E+22	1,471031E+23	1,042577E+23	2,513608E+23
1931	7,355126E+22	7,355360E+22	5,213021E+22	5,212856E+22	1,471049E+23	1,042588E+23	2,513636E+23
1932	7,355356E+22	7,355262E+22	5,212902E+22	5,212961E+22	1,471062E+23	1,042586E+23	2,513648E+23
1933	7,355155E+22	7,355079E+22	5,212963E+22	5,212942E+22	1,471023E+23	1,042591E+23	2,513614E+23
1934	7,355152E+22	7,355391E+22	5,213057E+22	5,213092E+22	1,471054E+23	1,042615E+23	2,513669E+23
1935	7,355282E+22	7,355141E+22	5,213011E+22	5,213118E+22	1,471042E+23	1,042613E+23	2,513655E+23
1936	7,355070E+22	7,355163E+22	5,213177E+22	5,213078E+22	1,471023E+23	1,042626E+23	2,513649E+23
1937	7,355298E+22	7,355314E+22	5,213213E+22	5,213266E+22	1,471061E+23	1,042648E+23	2,513709E+23
1938	7,355282E+22	7,354989E+22	5,213256E+22	5,213219E+22	1,471027E+23	1,042648E+23	2,513675E+23
1939	7,355027E+22	7,355267E+22	5,213397E+22	5,213269E+22	1,471029E+23	1,042667E+23	2,513696E+23
1940	7,355232E+22	7,355300E+22	5,213287E+22	5,213419E+22	1,471053E+23	1,042671E+23	2,513724E+23
1941	7,355072E+22	7,355006E+22	5,213330E+22	5,213329E+22	1,471008E+23	1,042666E+23	2,513674E+23
1942	7,355022E+22	7,355265E+22	5,213429E+22	5,213349E+22	1,471029E+23	1,042678E+23	2,513706E+23
1943	7,355282E+22	7,355087E+22	5,213264E+22	5,213310E+22	1,471037E+23	1,042657E+23	2,513694E+23
1944	7,355074E+22	7,355043E+22	5,213278E+22	5,213173E+22	1,471012E+23	1,042645E+23	2,513657E+23
1945	7,355214E+22	7,355311E+22	5,213202E+22	5,213266E+22	1,471052E+23	1,042647E+23	2,513699E+23
1946	7,355258E+22	7,355070E+22	5,213097E+22	5,213129E+22	1,471033E+23	1,042623E+23	2,513655E+23
1947	7,354994E+22	7,355248E+22	5,213174E+22	5,213036E+22	1,471024E+23	1,042621E+23	2,513645E+23
1948	7,355259E+22	7,355331E+22	5,213051E+22	5,213113E+22	1,471059E+23	1,042616E+23	2,513675E+23
1949	7,355206E+22	7,355000E+22	5,213056E+22	5,213011E+22	1,471021E+23	1,042607E+23	2,513627E+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	7,355050E+22	7,355247E+22	5,213191E+22	5,213055E+22	1,471030E+23	1,042625E+23	2,513654E+23
1951	7,355284E+22	7,355215E+22	5,213040E+22	5,213151E+22	1,471050E+23	1,042619E+23	2,513669E+23
1952	7,355056E+22	7,355068E+22	5,213112E+22	5,213114E+22	1,471012E+23	1,042623E+23	2,513635E+23
1953	7,355119E+22	7,355283E+22	5,213207E+22	5,213265E+22	1,471040E+23	1,042647E+23	2,513687E+23
1954	7,355289E+22	7,355042E+22	5,213203E+22	5,213245E+22	1,471033E+23	1,042645E+23	2,513678E+23
1955	7,355029E+22	7,355094E+22	5,213385E+22	5,213228E+22	1,471012E+23	1,042661E+23	2,513674E+23
1956	7,355219E+22	7,355277E+22	5,213360E+22	5,213423E+22	1,471050E+23	1,042678E+23	2,513728E+23
1957	7,355169E+22	7,355002E+22	5,213388E+22	5,213422E+22	1,471017E+23	1,042681E+23	2,513698E+23
1958	7,354885E+22	7,355189E+22	5,213577E+22	5,213466E+22	1,471007E+23	1,042704E+23	2,513712E+23
1959	7,355145E+22	7,355206E+22	5,213459E+22	5,213559E+22	1,471035E+23	1,042702E+23	2,513737E+23
1960	7,355021E+22	7,354930E+22	5,213500E+22	5,213443E+22	1,470995E+23	1,042694E+23	2,513689E+23
1961	7,355031E+22	7,355125E+22	5,213552E+22	5,213493E+22	1,471016E+23	1,042705E+23	2,513720E+23
1962	7,355282E+22	7,355020E+22	5,213388E+22	5,213437E+22	1,471030E+23	1,042682E+23	2,513713E+23
1963	7,354990E+22	7,355034E+22	5,213396E+22	5,213319E+22	1,471002E+23	1,042671E+23	2,513674E+23
1964	7,355114E+22	7,355297E+22	5,213294E+22	5,213384E+22	1,471041E+23	1,042668E+23	2,513709E+23
1965	7,355196E+22	7,355045E+22	5,213215E+22	5,213249E+22	1,471024E+23	1,042646E+23	2,513670E+23
1966	7,354932E+22	7,355120E+22	5,213359E+22	5,213164E+22	1,471005E+23	1,042652E+23	2,513657E+23
1967	7,355211E+22	7,355250E+22	5,213213E+22	5,213237E+22	1,471046E+23	1,042645E+23	2,513691E+23
1968	7,355122E+22	7,354977E+22	5,213203E+22	5,213168E+22	1,471010E+23	1,042637E+23	2,513647E+23
1969	7,354971E+22	7,355165E+22	5,213310E+22	5,213267E+22	1,471014E+23	1,042658E+23	2,513671E+23
1970	7,355232E+22	7,355150E+22	5,213198E+22	5,213321E+22	1,471038E+23	1,042652E+23	2,513690E+23
1971	7,354993E+22	7,354992E+22	5,213300E+22	5,213269E+22	1,470998E+23	1,042657E+23	2,513655E+23
1972	7,355086E+22	7,355209E+22	5,213366E+22	5,213395E+22	1,471030E+23	1,042676E+23	2,513706E+23
1973	7,355272E+22	7,355010E+22	5,213353E+22	5,213404E+22	1,471028E+23	1,042676E+23	2,513704E+23
1974	7,354934E+22	7,355012E+22	5,213583E+22	5,213426E+22	1,470995E+23	1,042701E+23	2,513696E+23
1975	7,355094E+22	7,355259E+22	5,213528E+22	5,213605E+22	1,471035E+23	1,042713E+23	2,513749E+23
1976	7,355042E+22	7,354971E+22	5,213562E+22	5,213591E+22	1,471001E+23	1,042715E+23	2,513717E+23
1977	7,354835E+22	7,355028E+22	5,213739E+22	5,213639E+22	1,470986E+23	1,042738E+23	2,513724E+23
1978	7,355159E+22	7,355064E+22	5,213626E+22	5,213677E+22	1,471022E+23	1,042730E+23	2,513753E+23
1979	7,354997E+22	7,354847E+22	5,213643E+22	5,213570E+22	1,470984E+23	1,042721E+23	2,513706E+23
1980	7,354982E+22	7,355101E+22	5,213627E+22	5,213617E+22	1,471008E+23	1,042724E+23	2,513733E+23
1981	7,355206E+22	7,355060E+22	5,213462E+22	5,213578E+22	1,471027E+23	1,042704E+23	2,513731E+23
1982	7,354876E+22	7,354990E+22	5,213557E+22	5,213457E+22	1,470987E+23	1,042701E+23	2,513688E+23
1983	7,355024E+22	7,355251E+22	5,213462E+22	5,213478E+22	1,471028E+23	1,042694E+23	2,513722E+23
1984	7,355124E+22	7,354995E+22	5,213398E+22	5,213361E+22	1,471012E+23	1,042676E+23	2,513688E+23
1985	7,354901E+22	7,354973E+22	5,213509E+22	5,213343E+22	1,470987E+23	1,042685E+23	2,513673E+23
1986	7,355172E+22	7,355153E+22	5,213359E+22	5,213417E+22	1,471032E+23	1,042678E+23	2,513710E+23
1987	7,355030E+22	7,354938E+22	5,213334E+22	5,213366E+22	1,470997E+23	1,042670E+23	2,513667E+23
1988	7,354911E+22	7,355101E+22	5,213402E+22	5,213422E+22	1,471001E+23	1,042682E+23	2,513684E+23
1989	7,355217E+22	7,355098E+22	5,213326E+22	5,213454E+22	1,471032E+23	1,042678E+23	2,513710E+23
1990	7,354969E+22	7,354888E+22	5,213501E+22	5,213399E+22	1,470986E+23	1,042690E+23	2,513676E+23
1991	7,355030E+22	7,355167E+22	5,213549E+22	5,213516E+22	1,471020E+23	1,042707E+23	2,513726E+23
1992	7,355159E+22	7,355023E+22	5,213545E+22	5,213569E+22	1,471018E+23	1,042711E+23	2,513730E+23
1993	7,354817E+22	7,354930E+22	5,213753E+22	5,213649E+22	1,470975E+23	1,042740E+23	2,513715E+23
1994	7,354998E+22	7,355161E+22	5,213726E+22	5,213785E+22	1,471016E+23	1,042751E+23	2,513767E+23
1995	7,354961E+22	7,354868E+22	5,213755E+22	5,213759E+22	1,470983E+23	1,042751E+23	2,513734E+23
1996	7,354813E+22	7,354909E+22	5,213861E+22	5,213781E+22	1,470972E+23	1,042764E+23	2,513736E+23
1997	7,355162E+22	7,355014E+22	5,213729E+22	5,213828E+22	1,471018E+23	1,042756E+23	2,513773E+23
1998	7,354939E+22	7,354798E+22	5,213777E+22	5,213732E+22	1,470974E+23	1,042751E+23	2,513725E+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							
1999	7,354884E+22	7,355125E+22	5,213738E+22	5,213739E+22	1,471001E+23	1,042748E+23	2,513749E+23
2000	7,355107E+22	7,355074E+22	5,213610E+22	5,213684E+22	1,471018E+23	1,042729E+23	2,513748E+23
2001	7,354828E+22	7,354857E+22	5,213718E+22	5,213589E+22	1,470968E+23	1,042731E+23	2,513699E+23
2002	7,355006E+22	7,355128E+22	5,213640E+22	5,213585E+22	1,471013E+23	1,042722E+23	2,513736E+23
2003	7,355064E+22	7,354906E+22	5,213550E+22	5,213511E+22	1,470997E+23	1,042706E+23	2,513703E+23
2004	7,354829E+22	7,354910E+22	5,213587E+22	5,213510E+22	1,470974E+23	1,042710E+23	2,513684E+23
2005	7,355111E+22	7,355138E+22	5,213437E+22	5,213584E+22	1,471025E+23	1,042702E+23	2,513727E+23
2006	7,354952E+22	7,354856E+22	5,213492E+22	5,213517E+22	1,470981E+23	1,042701E+23	2,513682E+23
2007	7,354862E+22	7,355060E+22	5,213567E+22	5,213519E+22	1,470992E+23	1,042709E+23	2,513701E+23
2008	7,355180E+22	7,355072E+22	5,213521E+22	5,213568E+22	1,471025E+23	1,042709E+23	2,513734E+23
2009	7,354926E+22	7,354781E+22	5,213695E+22	5,213590E+22	1,470971E+23	1,042729E+23	2,513699E+23
2010	7,354944E+22	7,355109E+22	5,213747E+22	5,213709E+22	1,471005E+23	1,042746E+23	2,513751E+23
2011	7,355012E+22	7,354985E+22	5,213731E+22	5,213791E+22	1,471000E+23	1,042752E+23	2,513752E+23
2012	7,354722E+22	7,354825E+22	5,213890E+22	5,213839E+22	1,470955E+23	1,042773E+23	2,513728E+23
2013	7,354977E+22	7,355058E+22	5,213864E+22	5,213943E+22	1,471003E+23	1,042781E+23	2,513784E+23
2014	7,354945E+22	7,354742E+22	5,213926E+22	5,213910E+22	1,470969E+23	1,042784E+23	2,513752E+23
2015	7,354783E+22	7,354883E+22	5,213981E+22	5,213898E+22	1,470967E+23	1,042788E+23	2,513754E+23
2016	7,355085E+22	7,355056E+22	5,213861E+22	5,213959E+22	1,471014E+23	1,042782E+23	2,513796E+23
2017	7,354854E+22	7,354755E+22	5,213915E+22	5,213895E+22	1,470961E+23	1,042781E+23	2,513742E+23
2018	7,354807E+22	7,355056E+22	5,213920E+22	5,213846E+22	1,470986E+23	1,042777E+23	2,513763E+23
2019	7,355024E+22	7,355002E+22	5,213800E+22	5,213803E+22	1,471003E+23	1,042760E+23	2,513763E+23
2020	7,354793E+22	7,354734E+22	5,213832E+22	5,213717E+22	1,470953E+23	1,042755E+23	2,513708E+23
2021	7,354974E+22	7,355048E+22	5,213738E+22	5,213741E+22	1,471002E+23	1,042748E+23	2,513750E+23
2022	7,354984E+22	7,354839E+22	5,213669E+22	5,213695E+22	1,470982E+23	1,042736E+23	2,513719E+23
2023	7,354741E+22	7,354900E+22	5,213673E+22	5,213649E+22	1,470964E+23	1,042732E+23	2,513696E+23
2024	7,355053E+22	7,355120E+22	5,213584E+22	5,213700E+22	1,471017E+23	1,042728E+23	2,513746E+23
2025	7,354943E+22	7,354737E+22	5,213661E+22	5,213648E+22	1,470968E+23	1,042731E+23	2,513699E+23
2026	7,354851E+22	7,354971E+22	5,213768E+22	5,213627E+22	1,470982E+23	1,042739E+23	2,513722E+23
2027	7,355089E+22	7,355043E+22	5,213718E+22	5,213735E+22	1,471013E+23	1,042745E+23	2,513759E+23
2028	7,354809E+22	7,354735E+22	5,213832E+22	5,213796E+22	1,470954E+23	1,042763E+23	2,513717E+23
2029	7,354829E+22	7,355073E+22	5,213896E+22	5,213919E+22	1,470990E+23	1,042781E+23	2,513772E+23
2030	7,354906E+22	7,354872E+22	5,213934E+22	5,213993E+22	1,470978E+23	1,042793E+23	2,513771E+23
2031	7,354670E+22	7,354744E+22	5,214050E+22	5,213980E+22	1,470941E+23	1,042803E+23	2,513744E+23
2032	7,354970E+22	7,354998E+22	5,214033E+22	5,214081E+22	1,470997E+23	1,042811E+23	2,513808E+23
2033	7,354933E+22	7,354644E+22	5,214075E+22	5,214088E+22	1,470958E+23	1,042816E+23	2,513774E+23
2034	7,354739E+22	7,354862E+22	5,214128E+22	5,214042E+22	1,470960E+23	1,042817E+23	2,513777E+23
2035	7,354976E+22	7,355053E+22	5,214011E+22	5,214103E+22	1,471003E+23	1,042811E+23	2,513814E+23
2036	7,354776E+22	7,354673E+22	5,214038E+22	5,214017E+22	1,470945E+23	1,042805E+23	2,513750E+23
2037	7,354774E+22	7,354967E+22	5,214050E+22	5,213947E+22	1,470974E+23	1,042800E+23	2,513774E+23
2038	7,354962E+22	7,354877E+22	5,213955E+22	5,213934E+22	1,470984E+23	1,042789E+23	2,513773E+23
2039	7,354717E+22	7,354698E+22	5,213927E+22	5,213841E+22	1,470942E+23	1,042777E+23	2,513718E+23
2040	7,354893E+22	7,355050E+22	5,213842E+22	5,213888E+22	1,470994E+23	1,042773E+23	2,513767E+23
2041	7,354910E+22	7,354766E+22	5,213792E+22	5,213866E+22	1,470968E+23	1,042766E+23	2,513733E+23
2042	7,354705E+22	7,354835E+22	5,213838E+22	5,213757E+22	1,470954E+23	1,042759E+23	2,513713E+23
2043	7,354998E+22	7,355067E+22	5,213775E+22	5,213819E+22	1,471007E+23	1,042759E+23	2,513766E+23
2044	7,354911E+22	7,354651E+22	5,213811E+22	5,213797E+22	1,470956E+23	1,042761E+23	2,513717E+23
2045	7,354794E+22	7,354924E+22	5,213921E+22	5,213807E+22	1,470972E+23	1,042773E+23	2,513745E+23
2046	7,354956E+22	7,354991E+22	5,213900E+22	5,213963E+22	1,470995E+23	1,042786E+23	2,513781E+23
2047	7,354683E+22	7,354705E+22	5,213976E+22	5,213984E+22	1,470939E+23	1,042796E+23	2,513735E+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	7,354765E+22	7,354995E+22	5,214082E+22	5,214084E+22	1,470976E+23	1,042817E+23	2,513793E+23
2049	7,354903E+22	7,354714E+22	5,214116E+22	5,214165E+22	1,470962E+23	1,042828E+23	2,513790E+23
2050	7,354690E+22	7,354639E+22	5,214221E+22	5,214108E+22	1,470933E+23	1,042833E+23	2,513766E+23
2051	7,354910E+22	7,354981E+22	5,214197E+22	5,214234E+22	1,470989E+23	1,042843E+23	2,513832E+23
2052	7,354853E+22	7,354631E+22	5,214174E+22	5,214244E+22	1,470948E+23	1,042842E+23	2,513790E+23
2053	7,354644E+22	7,354845E+22	5,214258E+22	5,214175E+22	1,470949E+23	1,042843E+23	2,513792E+23
2054	7,354862E+22	7,354978E+22	5,214200E+22	5,214238E+22	1,470984E+23	1,042844E+23	2,513828E+23
2055	7,354694E+22	7,354609E+22	5,214178E+22	5,214120E+22	1,470930E+23	1,042830E+23	2,513760E+23
2056	7,354726E+22	7,354893E+22	5,214201E+22	5,214081E+22	1,470962E+23	1,042828E+23	2,513790E+23
2057	7,354908E+22	7,354767E+22	5,214077E+22	5,214122E+22	1,470968E+23	1,042820E+23	2,513787E+23
2058	7,354663E+22	7,354651E+22	5,214031E+22	5,213994E+22	1,470931E+23	1,042803E+23	2,513734E+23
2059	7,354812E+22	7,355022E+22	5,213970E+22	5,214030E+22	1,470983E+23	1,042800E+23	2,513783E+23
2060	7,354885E+22	7,354678E+22	5,213898E+22	5,213980E+22	1,470956E+23	1,042788E+23	2,513744E+23
2061	7,354710E+22	7,354764E+22	5,213980E+22	5,213852E+22	1,470947E+23	1,042783E+23	2,513731E+23
2062	7,354940E+22	7,354992E+22	5,213961E+22	5,213961E+22	1,470993E+23	1,042792E+23	2,513785E+23
2063	7,354802E+22	7,354652E+22	5,213955E+22	5,213954E+22	1,470945E+23	1,042791E+23	2,513736E+23
2064	7,354675E+22	7,354919E+22	5,214093E+22	5,214002E+22	1,470959E+23	1,042810E+23	2,513769E+23
2065	7,354843E+22	7,354879E+22	5,214091E+22	5,214185E+22	1,470972E+23	1,042828E+23	2,513800E+23
2066	7,354643E+22	7,354596E+22	5,214176E+22	5,214144E+22	1,470924E+23	1,042832E+23	2,513756E+23
2067	7,354737E+22	7,354893E+22	5,214275E+22	5,214238E+22	1,470963E+23	1,042851E+23	2,513814E+23
2068	7,354896E+22	7,354608E+22	5,214246E+22	5,214331E+22	1,470950E+23	1,042858E+23	2,513808E+23
2069	7,354664E+22	7,354617E+22	5,214344E+22	5,214268E+22	1,470928E+23	1,042861E+23	2,513789E+23
2070	7,354789E+22	7,354962E+22	5,214350E+22	5,214416E+22	1,470975E+23	1,042877E+23	2,513852E+23
2071	7,354723E+22	7,354636E+22	5,214309E+22	5,214374E+22	1,470936E+23	1,042868E+23	2,513804E+23
2072	7,354573E+22	7,354786E+22	5,214433E+22	5,214292E+22	1,470936E+23	1,042872E+23	2,513808E+23
2073	7,354809E+22	7,354830E+22	5,214372E+22	5,214381E+22	1,470964E+23	1,042875E+23	2,513839E+23
2074	7,354670E+22	7,354510E+22	5,214323E+22	5,214244E+22	1,470918E+23	1,042857E+23	2,513775E+23
2075	7,354646E+22	7,354846E+22	5,214327E+22	5,214235E+22	1,470949E+23	1,042856E+23	2,513805E+23
2076	7,354838E+22	7,354713E+22	5,214147E+22	5,214284E+22	1,470955E+23	1,042843E+23	2,513798E+23
2077	7,354624E+22	7,354612E+22	5,214133E+22	5,214113E+22	1,470924E+23	1,042825E+23	2,513748E+23
2078	7,354752E+22	7,354951E+22	5,214135E+22	5,214147E+22	1,470970E+23	1,042828E+23	2,513799E+23
2079	7,354840E+22	7,354650E+22	5,214038E+22	5,214070E+22	1,470949E+23	1,042811E+23	2,513760E+23
2080	7,354671E+22	7,354723E+22	5,214158E+22	5,213993E+22	1,470939E+23	1,042815E+23	2,513755E+23
2081	7,354843E+22	7,354919E+22	5,214138E+22	5,214172E+22	1,470976E+23	1,042831E+23	2,513807E+23
2082	7,354707E+22	7,354601E+22	5,214121E+22	5,214150E+22	1,470931E+23	1,042827E+23	2,513758E+23
2083	7,354566E+22	7,354840E+22	5,214284E+22	5,214194E+22	1,470941E+23	1,042848E+23	2,513788E+23
2084	7,354813E+22	7,354735E+22	5,214232E+22	5,214352E+22	1,470955E+23	1,042858E+23	2,513813E+23
2085	7,354657E+22	7,354483E+22	5,214319E+22	5,214276E+22	1,470914E+23	1,042860E+23	2,513774E+23
2086	7,354692E+22	7,354822E+22	5,214442E+22	5,214404E+22	1,470951E+23	1,042885E+23	2,513836E+23
2087	7,354800E+22	7,354639E+22	5,214364E+22	5,214475E+22	1,470944E+23	1,042884E+23	2,513828E+23
2088	7,354561E+22	7,354640E+22	5,214506E+22	5,214431E+22	1,470920E+23	1,042894E+23	2,513814E+23
2089	7,354668E+22	7,354885E+22	5,214546E+22	5,214586E+22	1,470955E+23	1,042913E+23	2,513869E+23
2090	7,354660E+22	7,354544E+22	5,214508E+22	5,214498E+22	1,470920E+23	1,042901E+23	2,513821E+23
2091	7,354511E+22	7,354679E+22	5,214624E+22	5,214429E+22	1,470919E+23	1,042905E+23	2,513824E+23
2092	7,354776E+22	7,354699E+22	5,214477E+22	5,214546E+22	1,470947E+23	1,042902E+23	2,513850E+23
2093	7,354641E+22	7,354456E+22	5,214404E+22	5,214399E+22	1,470910E+23	1,042880E+23	2,513790E+23
2094	7,354563E+22	7,354803E+22	5,214427E+22	5,214403E+22	1,470937E+23	1,042883E+23	2,513820E+23
2095	7,354766E+22	7,354703E+22	5,214238E+22	5,214380E+22	1,470947E+23	1,042862E+23	2,513809E+23
2096	7,354621E+22	7,354569E+22	5,214280E+22	5,214197E+22	1,470919E+23	1,042848E+23	2,513767E+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	7,354718E+22	7,354843E+22	5,214310E+22	5,214264E+22	1,470956E+23	1,042857E+23	2,513814E+23
2098	7,354796E+22	7,354608E+22	5,214210E+22	5,214197E+22	1,470940E+23	1,042841E+23	2,513781E+23
2099	7,354554E+22	7,354699E+22	5,214331E+22	5,214169E+22	1,470925E+23	1,042850E+23	2,513775E+23
2100	7,354716E+22	7,354839E+22	5,214268E+22	5,214378E+22	1,470955E+23	1,042865E+23	2,513820E+23
2101	7,354637E+22	7,354520E+22	5,214276E+22	5,214321E+22	1,470916E+23	1,042860E+23	2,513775E+23
2102	7,354503E+22	7,354715E+22	5,214467E+22	5,214372E+22	1,470922E+23	1,042884E+23	2,513806E+23
2103	7,354775E+22	7,354669E+22	5,214377E+22	5,214491E+22	1,470944E+23	1,042887E+23	2,513831E+23
2104	7,354649E+22	7,354446E+22	5,214480E+22	5,214441E+22	1,470909E+23	1,042892E+23	2,513802E+23
2105	7,354605E+22	7,354775E+22	5,214609E+22	5,214604E+22	1,470938E+23	1,042921E+23	2,513859E+23
2106	7,354712E+22	7,354632E+22	5,214537E+22	5,214638E+22	1,470934E+23	1,042917E+23	2,513852E+23
2107	7,354457E+22	7,354581E+22	5,214715E+22	5,214580E+22	1,470904E+23	1,042929E+23	2,513833E+23
2108	7,354614E+22	7,354744E+22	5,214707E+22	5,214728E+22	1,470936E+23	1,042943E+23	2,513879E+23
2109	7,354652E+22	7,354428E+22	5,214652E+22	5,214623E+22	1,470908E+23	1,042928E+23	2,513836E+23
2110	7,354445E+22	7,354586E+22	5,214757E+22	5,214600E+22	1,470903E+23	1,042936E+23	2,513839E+23
2111	7,354684E+22	7,354698E+22	5,214548E+22	5,214684E+22	1,470938E+23	1,042923E+23	2,513861E+23
2112	7,354584E+22	7,354455E+22	5,214507E+22	5,214536E+22	1,470904E+23	1,042904E+23	2,513808E+23
2113	7,354498E+22	7,354737E+22	5,214574E+22	5,214530E+22	1,470923E+23	1,042910E+23	2,513834E+23
2114	7,354750E+22	7,354651E+22	5,214397E+22	5,214457E+22	1,470940E+23	1,042885E+23	2,513825E+23
2115	7,354573E+22	7,354507E+22	5,214470E+22	5,214308E+22	1,470908E+23	1,042878E+23	2,513786E+23
2116	7,354651E+22	7,354756E+22	5,214441E+22	5,214424E+22	1,470941E+23	1,042887E+23	2,513827E+23
2117	7,354711E+22	7,354560E+22	5,214336E+22	5,214376E+22	1,470927E+23	1,042871E+23	2,513798E+23
2118	7,354422E+22	7,354625E+22	5,214481E+22	5,214384E+22	1,470905E+23	1,042887E+23	2,513791E+23
2119	7,354626E+22	7,354764E+22	5,214396E+22	5,214525E+22	1,470939E+23	1,042892E+23	2,513831E+23
2120	7,354641E+22	7,354425E+22	5,214436E+22	5,214460E+22	1,470907E+23	1,042890E+23	2,513796E+23
2121	7,354489E+22	7,354599E+22	5,214638E+22	5,214531E+22	1,470909E+23	1,042917E+23	2,513826E+23
2122	7,354748E+22	7,354640E+22	5,214543E+22	5,214634E+22	1,470939E+23	1,042918E+23	2,513856E+23
2123	7,354549E+22	7,354453E+22	5,214672E+22	5,214610E+22	1,470900E+23	1,042928E+23	2,513828E+23
2124	7,354492E+22	7,354717E+22	5,214771E+22	5,214783E+22	1,470921E+23	1,042955E+23	2,513876E+23
2125	7,354640E+22	7,354562E+22	5,214728E+22	5,214784E+22	1,470920E+23	1,042951E+23	2,513871E+23
2126	7,354377E+22	7,354464E+22	5,214911E+22	5,214751E+22	1,470884E+23	1,042966E+23	2,513850E+23
2127	7,354544E+22	7,354660E+22	5,214841E+22	5,214868E+22	1,470920E+23	1,042971E+23	2,513891E+23
2128	7,354629E+22	7,354377E+22	5,214773E+22	5,214795E+22	1,470901E+23	1,042957E+23	2,513857E+23
2129	7,354369E+22	7,354522E+22	5,214862E+22	5,214789E+22	1,470889E+23	1,042965E+23	2,513854E+23
2130	7,354630E+22	7,354681E+22	5,214662E+22	5,214810E+22	1,470931E+23	1,042947E+23	2,513878E+23
2131	7,354539E+22	7,354412E+22	5,214661E+22	5,214621E+22	1,470895E+23	1,042928E+23	2,513823E+23
2132	7,354476E+22	7,354622E+22	5,214699E+22	5,214614E+22	1,470910E+23	1,042931E+23	2,513841E+23
2133	7,354737E+22	7,354587E+22	5,214537E+22	5,214545E+22	1,470932E+23	1,042908E+23	2,513841E+23
2134	7,354470E+22	7,354452E+22	5,214616E+22	5,214477E+22	1,470892E+23	1,042909E+23	2,513802E+23
2135	7,354501E+22	7,354745E+22	5,214552E+22	5,214585E+22	1,470925E+23	1,042914E+23	2,513838E+23
2136	7,354624E+22	7,354521E+22	5,214480E+22	5,214557E+22	1,470914E+23	1,042904E+23	2,513818E+23
2137	7,354346E+22	7,354502E+22	5,214654E+22	5,214561E+22	1,470885E+23	1,042922E+23	2,513806E+23
2138	7,354624E+22	7,354669E+22	5,214573E+22	5,214653E+22	1,470929E+23	1,042923E+23	2,513852E+23
2139	7,354628E+22	7,354355E+22	5,214630E+22	5,214601E+22	1,470898E+23	1,042923E+23	2,513821E+23
2140	7,354451E+22	7,354529E+22	5,214778E+22	5,214711E+22	1,470898E+23	1,042949E+23	2,513847E+23
2141	7,354683E+22	7,354633E+22	5,214696E+22	5,214812E+22	1,470932E+23	1,042951E+23	2,513882E+23
2142	7,354418E+22	7,354413E+22	5,214861E+22	5,214818E+22	1,470883E+23	1,042968E+23	2,513851E+23
2143	7,354381E+22	7,354653E+22	5,214940E+22	5,214922E+22	1,470903E+23	1,042986E+23	2,513890E+23
2144	7,354614E+22	7,354462E+22	5,214906E+22	5,214935E+22	1,470908E+23	1,042984E+23	2,513892E+23
2145	7,354326E+22	7,354342E+22	5,215073E+22	5,214928E+22	1,470867E+23	1,043000E+23	2,513867E+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	7,354502E+22	7,354611E+22	5,214963E+22	5,215013E+22	1,470911E+23	1,042998E+23	2,513909E+23
2147	7,354540E+22	7,354367E+22	5,214906E+22	5,214940E+22	1,470891E+23	1,042985E+23	2,513875E+23
2148	7,354303E+22	7,354461E+22	5,214959E+22	5,214921E+22	1,470876E+23	1,042988E+23	2,513864E+23
2149	7,354607E+22	7,354618E+22	5,214799E+22	5,214891E+22	1,470922E+23	1,042969E+23	2,513892E+23
2150	7,354483E+22	7,354336E+22	5,214824E+22	5,214738E+22	1,470882E+23	1,042956E+23	2,513838E+23
2151	7,354402E+22	7,354571E+22	5,214821E+22	5,214712E+22	1,470897E+23	1,042953E+23	2,513851E+23
2152	7,354675E+22	7,354559E+22	5,214664E+22	5,214707E+22	1,470923E+23	1,042937E+23	2,513861E+23
2153	7,354349E+22	7,354390E+22	5,214747E+22	5,214682E+22	1,470874E+23	1,042943E+23	2,513817E+23
2154	7,354423E+22	7,354679E+22	5,214696E+22	5,214740E+22	1,470910E+23	1,042944E+23	2,513854E+23
2155	7,354581E+22	7,354429E+22	5,214665E+22	5,214688E+22	1,470901E+23	1,042935E+23	2,513836E+23
2156	7,354355E+22	7,354363E+22	5,214787E+22	5,214698E+22	1,470872E+23	1,042948E+23	2,513820E+23
2157	7,354637E+22	7,354601E+22	5,214725E+22	5,214785E+22	1,470924E+23	1,042951E+23	2,513875E+23
2158	7,354542E+22	7,354342E+22	5,214791E+22	5,214794E+22	1,470888E+23	1,042958E+23	2,513847E+23
2159	7,354310E+22	7,354545E+22	5,214921E+22	5,214875E+22	1,470885E+23	1,042980E+23	2,513865E+23
2160	7,354590E+22	7,354620E+22	5,214885E+22	5,214994E+22	1,470921E+23	1,042988E+23	2,513909E+23
2161	7,354317E+22	7,354302E+22	5,215074E+22	5,215007E+22	1,470862E+23	1,043008E+23	2,513870E+23
2162	7,354332E+22	7,354546E+22	5,215139E+22	5,215072E+22	1,470888E+23	1,043021E+23	2,513909E+23
2163	7,354569E+22	7,354374E+22	5,215091E+22	5,215095E+22	1,470894E+23	1,043019E+23	2,513913E+23
2164	7,354277E+22	7,354238E+22	5,215168E+22	5,215114E+22	1,470852E+23	1,043028E+23	2,513880E+23
2165	7,354460E+22	7,354572E+22	5,215068E+22	5,215164E+22	1,470903E+23	1,043023E+23	2,513926E+23
2166	7,354461E+22	7,354324E+22	5,215032E+22	5,215083E+22	1,470879E+23	1,043011E+23	2,513890E+23
2167	7,354247E+22	7,354407E+22	5,215075E+22	5,214983E+22	1,470865E+23	1,043006E+23	2,513871E+23
2168	7,354605E+22	7,354566E+22	5,214937E+22	5,214976E+22	1,470917E+23	1,042991E+23	2,513908E+23
2169	7,354408E+22	7,354263E+22	5,214973E+22	5,214878E+22	1,470867E+23	1,042985E+23	2,513852E+23
2170	7,354305E+22	7,354548E+22	5,214957E+22	5,214852E+22	1,470885E+23	1,042981E+23	2,513866E+23
2171	7,354546E+22	7,354535E+22	5,214826E+22	5,214869E+22	1,470908E+23	1,042969E+23	2,513878E+23
2172	7,354270E+22	7,354284E+22	5,214871E+22	5,214853E+22	1,470855E+23	1,042972E+23	2,513828E+23
2173	7,354419E+22	7,354569E+22	5,214851E+22	5,214868E+22	1,470899E+23	1,042972E+23	2,513871E+23
2174	7,354551E+22	7,354339E+22	5,214828E+22	5,214852E+22	1,470889E+23	1,042968E+23	2,513857E+23
2175	7,354314E+22	7,354321E+22	5,214912E+22	5,214833E+22	1,470863E+23	1,042975E+23	2,513838E+23
2176	7,354591E+22	7,354600E+22	5,214865E+22	5,214970E+22	1,470919E+23	1,042983E+23	2,513903E+23
2177	7,354414E+22	7,354321E+22	5,214966E+22	5,215010E+22	1,470874E+23	1,042998E+23	2,513871E+23
2178	7,354216E+22	7,354495E+22	5,215114E+22	5,215029E+22	1,470871E+23	1,043014E+23	2,513885E+23
2179	7,354510E+22	7,354520E+22	5,215116E+22	5,215134E+22	1,470903E+23	1,043025E+23	2,513928E+23
2180	7,354288E+22	7,354147E+22	5,215234E+22	5,215170E+22	1,470844E+23	1,043040E+23	2,513884E+23
2181	7,354320E+22	7,354435E+22	5,215288E+22	5,215227E+22	1,470875E+23	1,043051E+23	2,513927E+23
2182	7,354475E+22	7,354330E+22	5,215222E+22	5,215292E+22	1,470881E+23	1,043051E+23	2,513932E+23
2183	7,354179E+22	7,354227E+22	5,215255E+22	5,215248E+22	1,470841E+23	1,043050E+23	2,513891E+23
2184	7,354419E+22	7,354549E+22	5,215196E+22	5,215287E+22	1,470897E+23	1,043048E+23	2,513945E+23
2185	7,354396E+22	7,354258E+22	5,215197E+22	5,215201E+22	1,470865E+23	1,043040E+23	2,513905E+23
2186	7,354210E+22	7,354349E+22	5,215239E+22	5,215069E+22	1,470856E+23	1,043031E+23	2,513887E+23
2187	7,354529E+22	7,354523E+22	5,215117E+22	5,215100E+22	1,470905E+23	1,043022E+23	2,513927E+23
2188	7,354319E+22	7,354187E+22	5,215077E+22	5,215067E+22	1,470851E+23	1,043014E+23	2,513865E+23
2189	7,354229E+22	7,354479E+22	5,215081E+22	5,215026E+22	1,470871E+23	1,043011E+23	2,513882E+23
2190	7,354459E+22	7,354448E+22	5,214968E+22	5,215047E+22	1,470891E+23	1,043002E+23	2,513892E+23
2191	7,354241E+22	7,354183E+22	5,214980E+22	5,214957E+22	1,470842E+23	1,042994E+23	2,513836E+23
2192	7,354454E+22	7,354504E+22	5,214978E+22	5,214993E+22	1,470896E+23	1,042997E+23	2,513893E+23
2193	7,354501E+22	7,354295E+22	5,214972E+22	5,215013E+22	1,470880E+23	1,042998E+23	2,513878E+23
2194	7,354224E+22	7,354330E+22	5,215072E+22	5,214980E+22	1,470855E+23	1,043005E+23	2,513861E+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							
2195	7,354458E+22	7,354603E+22	5,215076E+22	5,215127E+22	1,470906E+23	1,043020E+23	2,513926E+23
2196	7,354312E+22	7,354213E+22	5,215154E+22	5,215193E+22	1,470852E+23	1,043035E+23	2,513887E+23
2197	7,354174E+22	7,354360E+22	5,215330E+22	5,215188E+22	1,470853E+23	1,043052E+23	2,513905E+23
2198	7,354441E+22	7,354398E+22	5,215309E+22	5,215332E+22	1,470884E+23	1,043064E+23	2,513948E+23
2199	7,354230E+22	7,354062E+22	5,215351E+22	5,215338E+22	1,470829E+23	1,043069E+23	2,513898E+23
2200	7,354285E+22	7,354410E+22	5,215389E+22	5,215419E+22	1,470870E+23	1,043081E+23	2,513950E+23
2201	7,354376E+22	7,354302E+22	5,215350E+22	5,215477E+22	1,470868E+23	1,043083E+23	2,513951E+23
2202	7,354129E+22	7,354194E+22	5,215408E+22	5,215346E+22	1,470832E+23	1,043075E+23	2,513908E+23
2203	7,354377E+22	7,354491E+22	5,215391E+22	5,215361E+22	1,470887E+23	1,043075E+23	2,513962E+23
2204	7,354363E+22	7,354158E+22	5,215337E+22	5,215320E+22	1,470852E+23	1,043066E+23	2,513918E+23
2205	7,354166E+22	7,354277E+22	5,215382E+22	5,215202E+22	1,470844E+23	1,043058E+23	2,513903E+23
2206	7,354384E+22	7,354489E+22	5,215248E+22	5,215292E+22	1,470887E+23	1,043054E+23	2,513941E+23
2207	7,354204E+22	7,354140E+22	5,215168E+22	5,215216E+22	1,470834E+23	1,043038E+23	2,513873E+23
2208	7,354205E+22	7,354396E+22	5,215197E+22	5,215171E+22	1,470860E+23	1,043037E+23	2,513897E+23
2209	7,354421E+22	7,354347E+22	5,215119E+22	5,215192E+22	1,470877E+23	1,043031E+23	2,513908E+23
2210	7,354245E+22	7,354123E+22	5,215121E+22	5,215054E+22	1,470837E+23	1,043018E+23	2,513854E+23
2211	7,354403E+22	7,354476E+22	5,215151E+22	5,215119E+22	1,470888E+23	1,043027E+23	2,513915E+23
2212	7,354414E+22	7,354261E+22	5,215106E+22	5,215199E+22	1,470867E+23	1,043031E+23	2,513898E+23
2213	7,354142E+22	7,354273E+22	5,215255E+22	5,215153E+22	1,470841E+23	1,043041E+23	2,513882E+23
2214	7,354333E+22	7,354513E+22	5,215290E+22	5,215315E+22	1,470885E+23	1,043060E+23	2,513945E+23
2215	7,354251E+22	7,354090E+22	5,215318E+22	5,215337E+22	1,470834E+23	1,043066E+23	2,513900E+23
2216	7,354170E+22	7,354254E+22	5,215479E+22	5,215367E+22	1,470842E+23	1,043085E+23	2,513927E+23
2217	7,354359E+22	7,354330E+22	5,215457E+22	5,215541E+22	1,470869E+23	1,043100E+23	2,513969E+23
2218	7,354151E+22	7,354058E+22	5,215480E+22	5,215497E+22	1,470821E+23	1,043098E+23	2,513919E+23
2219	7,354196E+22	7,354406E+22	5,215566E+22	5,215556E+22	1,470860E+23	1,043112E+23	2,513972E+23
2220	7,354321E+22	7,354228E+22	5,215506E+22	5,215614E+22	1,470855E+23	1,043112E+23	2,513967E+23
2221	7,354116E+22	7,354102E+22	5,215597E+22	5,215454E+22	1,470822E+23	1,043105E+23	2,513927E+23
2222	7,354297E+22	7,354416E+22	5,215570E+22	5,215510E+22	1,470871E+23	1,043108E+23	2,513979E+23
2223	7,354277E+22	7,354090E+22	5,215443E+22	5,215466E+22	1,470837E+23	1,043091E+23	2,513928E+23
2224	7,354103E+22	7,354240E+22	5,215472E+22	5,215388E+22	1,470834E+23	1,043086E+23	2,513920E+23
2225	7,354277E+22	7,354419E+22	5,215360E+22	5,215470E+22	1,470870E+23	1,043083E+23	2,513953E+23
2226	7,354170E+22	7,354059E+22	5,215293E+22	5,215308E+22	1,470823E+23	1,043060E+23	2,513883E+23
2227	7,354207E+22	7,354320E+22	5,215355E+22	5,215246E+22	1,470853E+23	1,043060E+23	2,513913E+23
2228	7,354416E+22	7,354255E+22	5,215236E+22	5,215311E+22	1,470867E+23	1,043055E+23	2,513922E+23
2229	7,354215E+22	7,354084E+22	5,215274E+22	5,215188E+22	1,470830E+23	1,043046E+23	2,513876E+23
2230	7,354254E+22	7,354475E+22	5,215321E+22	5,215301E+22	1,470873E+23	1,043062E+23	2,513935E+23
2231	7,354281E+22	7,354219E+22	5,215261E+22	5,215359E+22	1,470850E+23	1,043062E+23	2,513912E+23
2232	7,354084E+22	7,354189E+22	5,215435E+22	5,215333E+22	1,470827E+23	1,043077E+23	2,513904E+23
2233	7,354245E+22	7,354393E+22	5,215490E+22	5,215513E+22	1,470864E+23	1,043100E+23	2,513964E+23
2234	7,354213E+22	7,354003E+22	5,215491E+22	5,215502E+22	1,470822E+23	1,043099E+23	2,513921E+23
2235	7,354118E+22	7,354204E+22	5,215648E+22	5,215550E+22	1,470832E+23	1,043120E+23	2,513952E+23
2236	7,354289E+22	7,354277E+22	5,215578E+22	5,215750E+22	1,470857E+23	1,043133E+23	2,513989E+23
2237	7,354120E+22	7,354003E+22	5,215643E+22	5,215647E+22	1,470812E+23	1,043129E+23	2,513941E+23
2238	7,354121E+22	7,354336E+22	5,215757E+22	5,215687E+22	1,470846E+23	1,043144E+23	2,513990E+23
2239	7,354291E+22	7,354146E+22	5,215649E+22	5,215704E+22	1,470844E+23	1,043135E+23	2,513979E+23
2240	7,354104E+22	7,354035E+22	5,215723E+22	5,215588E+22	1,470814E+23	1,043131E+23	2,513945E+23
2241	7,354166E+22	7,354367E+22	5,215704E+22	5,215687E+22	1,470853E+23	1,043139E+23	2,513992E+23
2242	7,354165E+22	7,354074E+22	5,215553E+22	5,215601E+22	1,470824E+23	1,043115E+23	2,513939E+23
2243	7,354014E+22	7,354182E+22	5,215616E+22	5,215512E+22	1,470820E+23	1,043113E+23	2,513932E+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							
2244	7,354241E+22	7,354302E+22	5,215486E+22	5,215599E+22	1,470854E+23	1,043108E+23	2,513963E+23
2245	7,354199E+22	7,353956E+22	5,215442E+22	5,215405E+22	1,470815E+23	1,043085E+23	2,513900E+23
2246	7,354155E+22	7,354265E+22	5,215508E+22	5,215379E+22	1,470842E+23	1,043089E+23	2,513931E+23
2247	7,354346E+22	7,354234E+22	5,215339E+22	5,215450E+22	1,470858E+23	1,043079E+23	2,513937E+23
2248	7,354139E+22	7,354081E+22	5,215395E+22	5,215379E+22	1,470822E+23	1,043077E+23	2,513899E+23
2249	7,354106E+22	7,354419E+22	5,215504E+22	5,215496E+22	1,470852E+23	1,043100E+23	2,513952E+23
2250	7,354209E+22	7,354130E+22	5,215453E+22	5,215495E+22	1,470834E+23	1,043095E+23	2,513929E+23
2251	7,354053E+22	7,354081E+22	5,215640E+22	5,215479E+22	1,470813E+23	1,043112E+23	2,513925E+23
2252	7,354215E+22	7,354270E+22	5,215639E+22	5,215706E+22	1,470848E+23	1,043135E+23	2,513983E+23
2253	7,354183E+22	7,353941E+22	5,215649E+22	5,215685E+22	1,470812E+23	1,043133E+23	2,513946E+23
2254	7,354010E+22	7,354190E+22	5,215808E+22	5,215741E+22	1,470820E+23	1,043155E+23	2,513975E+23
2255	7,354217E+22	7,354225E+22	5,215720E+22	5,215887E+22	1,470844E+23	1,043161E+23	2,514005E+23
2256	7,354105E+22	7,353950E+22	5,215809E+22	5,215785E+22	1,470806E+23	1,043159E+23	2,513965E+23
2257	7,354043E+22	7,354257E+22	5,215941E+22	5,215827E+22	1,470830E+23	1,043177E+23	2,514007E+23
2258	7,354220E+22	7,354089E+22	5,215806E+22	5,215823E+22	1,470831E+23	1,043163E+23	2,513994E+23
2259	7,354012E+22	7,354003E+22	5,215869E+22	5,215744E+22	1,470802E+23	1,043161E+23	2,513963E+23
2260	7,354058E+22	7,354290E+22	5,215802E+22	5,215875E+22	1,470835E+23	1,043168E+23	2,514003E+23
2261	7,354127E+22	7,353978E+22	5,215691E+22	5,215735E+22	1,470811E+23	1,043143E+23	2,513953E+23
2262	7,353972E+22	7,354088E+22	5,215757E+22	5,215623E+22	1,470806E+23	1,043138E+23	2,513944E+23
2263	7,354245E+22	7,354207E+22	5,215582E+22	5,215679E+22	1,470845E+23	1,043126E+23	2,513971E+23
2264	7,354206E+22	7,353931E+22	5,215538E+22	5,215527E+22	1,470814E+23	1,043107E+23	2,513920E+23
2265	7,354030E+22	7,354264E+22	5,215642E+22	5,215539E+22	1,470829E+23	1,043118E+23	2,513947E+23
2266	7,354218E+22	7,354249E+22	5,215491E+22	5,215585E+22	1,470847E+23	1,043108E+23	2,513954E+23
2267	7,354035E+22	7,354036E+22	5,215599E+22	5,215531E+22	1,470807E+23	1,043113E+23	2,513920E+23
2268	7,354031E+22	7,354283E+22	5,215694E+22	5,215678E+22	1,470831E+23	1,043137E+23	2,513969E+23
2269	7,354208E+22	7,353993E+22	5,215655E+22	5,215663E+22	1,470820E+23	1,043132E+23	2,513952E+23
2270	7,353997E+22	7,353985E+22	5,215815E+22	5,215677E+22	1,470798E+23	1,043149E+23	2,513947E+23
2271	7,354167E+22	7,354214E+22	5,215749E+22	5,215893E+22	1,470838E+23	1,043164E+23	2,514002E+23
2272	7,354151E+22	7,353930E+22	5,215758E+22	5,215873E+22	1,470808E+23	1,043163E+23	2,513971E+23
2273	7,353908E+22	7,354142E+22	5,215983E+22	5,215902E+22	1,470805E+23	1,043189E+23	2,513993E+23
2274	7,354168E+22	7,354176E+22	5,215903E+22	5,215974E+22	1,470834E+23	1,043188E+23	2,514022E+23
2275	7,354060E+22	7,353886E+22	5,216002E+22	5,215898E+22	1,470795E+23	1,043190E+23	2,513985E+23
2276	7,353951E+22	7,354169E+22	5,216092E+22	5,215998E+22	1,470812E+23	1,043209E+23	2,514021E+23
2277	7,354136E+22	7,354031E+22	5,215954E+22	5,215992E+22	1,470817E+23	1,043195E+23	2,514011E+23
2278	7,353877E+22	7,353954E+22	5,216007E+22	5,215917E+22	1,470783E+23	1,043192E+23	2,513976E+23
2279	7,354001E+22	7,354192E+22	5,215903E+22	5,215998E+22	1,470819E+23	1,043190E+23	2,514010E+23
2280	7,354143E+22	7,353904E+22	5,215795E+22	5,215852E+22	1,470805E+23	1,043165E+23	2,513969E+23
2281	7,353932E+22	7,354019E+22	5,215889E+22	5,215745E+22	1,470795E+23	1,043163E+23	2,513958E+23
2282	7,354204E+22	7,354190E+22	5,215706E+22	5,215775E+22	1,470839E+23	1,043148E+23	2,513988E+23
2283	7,354126E+22	7,353947E+22	5,215681E+22	5,215673E+22	1,470807E+23	1,043135E+23	2,513943E+23
2284	7,353911E+22	7,354212E+22	5,215784E+22	5,215721E+22	1,470812E+23	1,043151E+23	2,513963E+23
2285	7,354156E+22	7,354148E+22	5,215691E+22	5,215734E+22	1,470830E+23	1,043142E+23	2,513973E+23
2286	7,353972E+22	7,353922E+22	5,215799E+22	5,215685E+22	1,470789E+23	1,043148E+23	2,513938E+23
2287	7,354021E+22	7,354139E+22	5,215829E+22	5,215827E+22	1,470816E+23	1,043166E+23	2,513982E+23
2288	7,354199E+22	7,353938E+22	5,215772E+22	5,215852E+22	1,470814E+23	1,043162E+23	2,513976E+23
2289	7,353888E+22	7,353969E+22	5,215944E+22	5,215875E+22	1,470786E+23	1,043182E+23	2,513968E+23
2290	7,354065E+22	7,354210E+22	5,215900E+22	5,216031E+22	1,470827E+23	1,043193E+23	2,514021E+23
2291	7,354078E+22	7,353913E+22	5,215962E+22	5,216008E+22	1,470799E+23	1,043197E+23	2,513996E+23
2292	7,353838E+22	7,354044E+22	5,216180E+22	5,216053E+22	1,470788E+23	1,043223E+23	2,514012E+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							
2293	7,354133E+22	7,354074E+22	5,216119E+22	5,216119E+22	1,470821E+23	1,043224E+23	2,514045E+23
2294	7,353957E+22	7,353819E+22	5,216182E+22	5,216082E+22	1,470778E+23	1,043226E+23	2,514004E+23
2295	7,353856E+22	7,354088E+22	5,216190E+22	5,216185E+22	1,470794E+23	1,043237E+23	2,514032E+23
2296	7,354078E+22	7,353982E+22	5,216044E+22	5,216173E+22	1,470806E+23	1,043222E+23	2,514028E+23
2297	7,353806E+22	7,353864E+22	5,216129E+22	5,216056E+22	1,470767E+23	1,043219E+23	2,513986E+23
2298	7,354001E+22	7,354116E+22	5,216026E+22	5,216058E+22	1,470812E+23	1,043208E+23	2,514020E+23
2299	7,354150E+22	7,353873E+22	5,215926E+22	5,215933E+22	1,470802E+23	1,043186E+23	2,513988E+23
2300	7,353867E+22	7,353980E+22	5,216009E+22	5,215878E+22	1,470785E+23	1,043189E+23	2,513973E+23
2301	7,354124E+22	7,354176E+22	5,215863E+22	5,215910E+22	1,470830E+23	1,043177E+23	2,514007E+23
2302	7,353985E+22	7,353915E+22	5,215861E+22	5,215833E+22	1,470790E+23	1,043169E+23	2,513959E+23
2303	7,353833E+22	7,354100E+22	5,215940E+22	5,215872E+22	1,470793E+23	1,043181E+23	2,513974E+23
2304	7,354140E+22	7,354047E+22	5,215837E+22	5,215898E+22	1,470819E+23	1,043173E+23	2,513992E+23
2305	7,353906E+22	7,353813E+22	5,215955E+22	5,215868E+22	1,470772E+23	1,043182E+23	2,513954E+23
2306	7,353972E+22	7,354091E+22	5,215959E+22	5,215981E+22	1,470806E+23	1,043194E+23	2,514000E+23
2307	7,354129E+22	7,353945E+22	5,215905E+22	5,216037E+22	1,470807E+23	1,043194E+23	2,514002E+23
2308	7,353792E+22	7,353920E+22	5,216101E+22	5,216065E+22	1,470771E+23	1,043217E+23	2,513988E+23
2309	7,354028E+22	7,354127E+22	5,216119E+22	5,216163E+22	1,470816E+23	1,043228E+23	2,514044E+23
2310	7,354011E+22	7,353831E+22	5,216187E+22	5,216142E+22	1,470784E+23	1,043233E+23	2,514017E+23
2311	7,353795E+22	7,353931E+22	5,216338E+22	5,216203E+22	1,470773E+23	1,043254E+23	2,514027E+23
2312	7,354067E+22	7,354027E+22	5,216248E+22	5,216309E+22	1,470809E+23	1,043256E+23	2,514065E+23
2313	7,353812E+22	7,353776E+22	5,216314E+22	5,216285E+22	1,470759E+23	1,043260E+23	2,514019E+23
2314	7,353765E+22	7,354032E+22	5,216316E+22	5,216315E+22	1,470780E+23	1,043263E+23	2,514043E+23
2315	7,354045E+22	7,353930E+22	5,216188E+22	5,216293E+22	1,470798E+23	1,043248E+23	2,514046E+23
2316	7,353791E+22	7,353767E+22	5,216262E+22	5,216175E+22	1,470756E+23	1,043244E+23	2,514000E+23
2317	7,354012E+22	7,354038E+22	5,216185E+22	5,216157E+22	1,470805E+23	1,043234E+23	2,514039E+23
2318	7,354071E+22	7,353869E+22	5,216075E+22	5,216065E+22	1,470794E+23	1,043214E+23	2,514008E+23
2319	7,353780E+22	7,353937E+22	5,216105E+22	5,216032E+22	1,470772E+23	1,043214E+23	2,513985E+23
2320	7,354033E+22	7,354138E+22	5,215988E+22	5,216072E+22	1,470817E+23	1,043206E+23	2,514023E+23
2321	7,353884E+22	7,353817E+22	5,216022E+22	5,215988E+22	1,470770E+23	1,043201E+23	2,513971E+23
2322	7,353794E+22	7,353978E+22	5,216088E+22	5,215981E+22	1,470777E+23	1,043207E+23	2,513984E+23
2323	7,354116E+22	7,353983E+22	5,215980E+22	5,216052E+22	1,470810E+23	1,043203E+23	2,514013E+23
2324	7,353836E+22	7,353754E+22	5,216076E+22	5,216057E+22	1,470759E+23	1,043213E+23	2,513972E+23
2325	7,353910E+22	7,354058E+22	5,216124E+22	5,216147E+22	1,470797E+23	1,043227E+23	2,514024E+23
2326	7,354022E+22	7,353927E+22	5,216106E+22	5,216192E+22	1,470795E+23	1,043230E+23	2,514025E+23
2327	7,353741E+22	7,353820E+22	5,216284E+22	5,216210E+22	1,470756E+23	1,043249E+23	2,514006E+23
2328	7,353996E+22	7,354049E+22	5,216309E+22	5,216321E+22	1,470804E+23	1,043263E+23	2,514068E+23
2329	7,353919E+22	7,353741E+22	5,216379E+22	5,216336E+22	1,470766E+23	1,043271E+23	2,514037E+23
2330	7,353703E+22	7,353871E+22	5,216483E+22	5,216376E+22	1,470757E+23	1,043286E+23	2,514043E+23
2331	7,353974E+22	7,354008E+22	5,216372E+22	5,216507E+22	1,470798E+23	1,043288E+23	2,514086E+23
2332	7,353728E+22	7,353688E+22	5,216442E+22	5,216463E+22	1,470742E+23	1,043291E+23	2,514032E+23
2333	7,353776E+22	7,353921E+22	5,216481E+22	5,216418E+22	1,470770E+23	1,043290E+23	2,514060E+23
2334	7,354030E+22	7,353860E+22	5,216347E+22	5,216380E+22	1,470789E+23	1,043273E+23	2,514062E+23
2335	7,353785E+22	7,353697E+22	5,216365E+22	5,216281E+22	1,470748E+23	1,043265E+23	2,514013E+23
2336	7,353951E+22	7,354044E+22	5,216281E+22	5,216287E+22	1,470799E+23	1,043257E+23	2,514056E+23
2337	7,353909E+22	7,353856E+22	5,216206E+22	5,216225E+22	1,470777E+23	1,043243E+23	2,514020E+23
2338	7,353659E+22	7,353884E+22	5,216251E+22	5,216149E+22	1,470754E+23	1,043240E+23	2,513994E+23
2339	7,353962E+22	7,354067E+22	5,216147E+22	5,216214E+22	1,470803E+23	1,043236E+23	2,514039E+23
2340	7,353834E+22	7,353685E+22	5,216178E+22	5,216155E+22	1,470752E+23	1,043233E+23	2,513985E+23
2341	7,353799E+22	7,353862E+22	5,216252E+22	5,216133E+22	1,470766E+23	1,043239E+23	2,514005E+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	7,354046E+22	7,353952E+22	5,216132E+22	5,216225E+22	1,470800E+23	1,043236E+23	2,514035E+23
2343	7,353782E+22	7,353706E+22	5,216187E+22	5,216235E+22	1,470749E+23	1,043242E+23	2,513991E+23
2344	7,353860E+22	7,354020E+22	5,216279E+22	5,216302E+22	1,470788E+23	1,043258E+23	2,514046E+23
2345	7,353941E+22	7,353851E+22	5,216314E+22	5,216342E+22	1,470779E+23	1,043266E+23	2,514045E+23
2346	7,353695E+22	7,353732E+22	5,216475E+22	5,216333E+22	1,470743E+23	1,043281E+23	2,514024E+23
2347	7,353922E+22	7,354010E+22	5,216483E+22	5,216503E+22	1,470793E+23	1,043299E+23	2,514092E+23
2348	7,353799E+22	7,353680E+22	5,216532E+22	5,216557E+22	1,470748E+23	1,043309E+23	2,514057E+23
2349	7,353624E+22	7,353793E+22	5,216651E+22	5,216560E+22	1,470742E+23	1,043321E+23	2,514063E+23
2350	7,353887E+22	7,353952E+22	5,216551E+22	5,216656E+22	1,470784E+23	1,043321E+23	2,514105E+23
2351	7,353730E+22	7,353575E+22	5,216563E+22	5,216583E+22	1,470731E+23	1,043315E+23	2,514045E+23
2352	7,353787E+22	7,353853E+22	5,216606E+22	5,216527E+22	1,470764E+23	1,043313E+23	2,514077E+23
2353	7,353962E+22	7,353824E+22	5,216481E+22	5,216509E+22	1,470779E+23	1,043299E+23	2,514078E+23
2354	7,353691E+22	7,353682E+22	5,216469E+22	5,216399E+22	1,470737E+23	1,043287E+23	2,514024E+23
2355	7,353829E+22	7,354053E+22	5,216399E+22	5,216442E+22	1,470788E+23	1,043284E+23	2,514072E+23
2356	7,353800E+22	7,353763E+22	5,216354E+22	5,216381E+22	1,470756E+23	1,043274E+23	2,514030E+23
2357	7,353646E+22	7,353738E+22	5,216430E+22	5,216262E+22	1,470738E+23	1,043269E+23	2,514008E+23
2358	7,353931E+22	7,353966E+22	5,216314E+22	5,216332E+22	1,470790E+23	1,043265E+23	2,514054E+23
2359	7,353827E+22	7,353587E+22	5,216275E+22	5,216308E+22	1,470741E+23	1,043258E+23	2,514000E+23
2360	7,353756E+22	7,353848E+22	5,216354E+22	5,216298E+22	1,470760E+23	1,043265E+23	2,514026E+23
2361	7,353928E+22	7,353939E+22	5,216283E+22	5,216398E+22	1,470787E+23	1,043268E+23	2,514055E+23
2362	7,353699E+22	7,353667E+22	5,216363E+22	5,216360E+22	1,470737E+23	1,043272E+23	2,514009E+23
2363	7,353798E+22	7,353983E+22	5,216477E+22	5,216453E+22	1,470778E+23	1,043293E+23	2,514071E+23
2364	7,353865E+22	7,353748E+22	5,216526E+22	5,216533E+22	1,470761E+23	1,043306E+23	2,514067E+23
2365	7,353652E+22	7,353632E+22	5,216683E+22	5,216524E+22	1,470728E+23	1,043321E+23	2,514049E+23
2366	7,353806E+22	7,353965E+22	5,216657E+22	5,216709E+22	1,470777E+23	1,043337E+23	2,514114E+23
2367	7,353726E+22	7,353593E+22	5,216646E+22	5,216763E+22	1,470732E+23	1,043341E+23	2,514073E+23
2368	7,353602E+22	7,353711E+22	5,216776E+22	5,216708E+22	1,470731E+23	1,043348E+23	2,514080E+23
2369	7,353848E+22	7,353850E+22	5,216705E+22	5,216773E+22	1,470770E+23	1,043348E+23	2,514118E+23
2370	7,353719E+22	7,353515E+22	5,216688E+22	5,216656E+22	1,470723E+23	1,043334E+23	2,514058E+23
2371	7,353734E+22	7,353863E+22	5,216717E+22	5,216644E+22	1,470760E+23	1,043336E+23	2,514096E+23
2372	7,353833E+22	7,353808E+22	5,216612E+22	5,216664E+22	1,470764E+23	1,043328E+23	2,514092E+23
2373	7,353596E+22	7,353629E+22	5,216633E+22	5,216532E+22	1,470723E+23	1,043316E+23	2,514039E+23
2374	7,353712E+22	7,353984E+22	5,216583E+22	5,216564E+22	1,470770E+23	1,043315E+23	2,514084E+23
2375	7,353776E+22	7,353623E+22	5,216486E+22	5,216522E+22	1,470740E+23	1,043301E+23	2,514041E+23
2376	7,353655E+22	7,353630E+22	5,216550E+22	5,216403E+22	1,470729E+23	1,043295E+23	2,514024E+23
2377	7,353876E+22	7,353898E+22	5,216443E+22	5,216501E+22	1,470777E+23	1,043294E+23	2,514072E+23
2378	7,353764E+22	7,353579E+22	5,216368E+22	5,216452E+22	1,470734E+23	1,043282E+23	2,514016E+23
2379	7,353674E+22	7,353872E+22	5,216475E+22	5,216463E+22	1,470755E+23	1,043294E+23	2,514048E+23
2380	7,353845E+22	7,353875E+22	5,216472E+22	5,216556E+22	1,470772E+23	1,043303E+23	2,514075E+23
2381	7,353682E+22	7,353555E+22	5,216592E+22	5,216491E+22	1,470724E+23	1,043308E+23	2,514032E+23
2382	7,353721E+22	7,353914E+22	5,216703E+22	5,216604E+22	1,470763E+23	1,043331E+23	2,514094E+23
2383	7,353803E+22	7,353654E+22	5,216669E+22	5,216736E+22	1,470746E+23	1,043341E+23	2,514086E+23
2384	7,353565E+22	7,353574E+22	5,216817E+22	5,216729E+22	1,470714E+23	1,043355E+23	2,514068E+23
2385	7,353685E+22	7,353897E+22	5,216817E+22	5,216900E+22	1,470758E+23	1,043372E+23	2,514130E+23
2386	7,353672E+22	7,353515E+22	5,216785E+22	5,216882E+22	1,470719E+23	1,043367E+23	2,514085E+23
2387	7,353588E+22	7,353667E+22	5,216914E+22	5,216832E+22	1,470726E+23	1,043375E+23	2,514100E+23
2388	7,353812E+22	7,353774E+22	5,216865E+22	5,216908E+22	1,470759E+23	1,043377E+23	2,514136E+23
2389	7,353685E+22	7,353468E+22	5,216849E+22	5,216782E+22	1,470715E+23	1,043363E+23	2,514078E+23
2390	7,353603E+22	7,353870E+22	5,216870E+22	5,216780E+22	1,470747E+23	1,043365E+23	2,514112E+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							
2391	7,353738E+22	7,353734E+22	5,216725E+22	5,216824E+22	1,470747E+23	1,043355E+23	2,514102E+23
2392	7,353552E+22	7,353525E+22	5,216770E+22	5,216661E+22	1,470708E+23	1,043343E+23	2,514051E+23
2393	7,353663E+22	7,353855E+22	5,216733E+22	5,216693E+22	1,470752E+23	1,043343E+23	2,514094E+23
2394	7,353757E+22	7,353542E+22	5,216586E+22	5,216632E+22	1,470730E+23	1,043322E+23	2,514052E+23
2395	7,353618E+22	7,353637E+22	5,216626E+22	5,216558E+22	1,470726E+23	1,043318E+23	2,514044E+23
2396	7,353776E+22	7,353880E+22	5,216569E+22	5,216674E+22	1,470766E+23	1,043324E+23	2,514090E+23
2397	7,353704E+22	7,353554E+22	5,216548E+22	5,216586E+22	1,470726E+23	1,043313E+23	2,514039E+23
2398	7,353583E+22	7,353833E+22	5,216694E+22	5,216578E+22	1,470742E+23	1,043327E+23	2,514069E+23
2399	7,353803E+22	7,353760E+22	5,216659E+22	5,216717E+22	1,470756E+23	1,043338E+23	2,514094E+23
2400	7,353649E+22	7,353456E+22	5,216775E+22	5,216668E+22	1,470710E+23	1,043344E+23	2,514055E+23
2401	7,353608E+22	7,353820E+22	5,216877E+22	5,216821E+22	1,470743E+23	1,043370E+23	2,514113E+23
2402	7,353697E+22	7,353604E+22	5,216790E+22	5,216931E+22	1,470730E+23	1,043372E+23	2,514102E+23
2403	7,353498E+22	7,353542E+22	5,216930E+22	5,216918E+22	1,470704E+23	1,043385E+23	2,514089E+23
2404	7,353638E+22	7,353787E+22	5,216991E+22	5,217050E+22	1,470743E+23	1,043404E+23	2,514147E+23
2405	7,353694E+22	7,353426E+22	5,216967E+22	5,216977E+22	1,470712E+23	1,043394E+23	2,514107E+23
2406	7,353538E+22	7,353644E+22	5,217090E+22	5,216930E+22	1,470718E+23	1,043402E+23	2,514120E+23
2407	7,353742E+22	7,353736E+22	5,216987E+22	5,217063E+22	1,470748E+23	1,043405E+23	2,514153E+23
2408	7,353582E+22	7,353447E+22	5,216981E+22	5,216939E+22	1,470703E+23	1,043392E+23	2,514095E+23
2409	7,353455E+22	7,353802E+22	5,217034E+22	5,216939E+22	1,470726E+23	1,043397E+23	2,514123E+23
2410	7,353660E+22	7,353642E+22	5,216854E+22	5,216940E+22	1,470730E+23	1,043379E+23	2,514110E+23
2411	7,353532E+22	7,353453E+22	5,216875E+22	5,216802E+22	1,470698E+23	1,043368E+23	2,514066E+23
2412	7,353637E+22	7,353751E+22	5,216865E+22	5,216849E+22	1,470739E+23	1,043371E+23	2,514110E+23
2413	7,353744E+22	7,353496E+22	5,216706E+22	5,216770E+22	1,470724E+23	1,043348E+23	2,514072E+23
2414	7,353527E+22	7,353660E+22	5,216761E+22	5,216692E+22	1,470719E+23	1,043345E+23	2,514064E+23
2415	7,353720E+22	7,353820E+22	5,216696E+22	5,216818E+22	1,470754E+23	1,043351E+23	2,514105E+23
2416	7,353671E+22	7,353461E+22	5,216728E+22	5,216705E+22	1,470713E+23	1,043343E+23	2,514057E+23
2417	7,353510E+22	7,353723E+22	5,216901E+22	5,216721E+22	1,470723E+23	1,043362E+23	2,514085E+23
2418	7,353727E+22	7,353680E+22	5,216809E+22	5,216870E+22	1,470741E+23	1,043368E+23	2,514109E+23
2419	7,353558E+22	7,353437E+22	5,216897E+22	5,216880E+22	1,470700E+23	1,043378E+23	2,514077E+23
2420	7,353488E+22	7,353748E+22	5,217039E+22	5,217039E+22	1,470724E+23	1,043408E+23	2,514131E+23
2421	7,353641E+22	7,353531E+22	5,216972E+22	5,217091E+22	1,470717E+23	1,043406E+23	2,514123E+23
2422	7,353446E+22	7,353494E+22	5,217126E+22	5,217040E+22	1,470694E+23	1,043417E+23	2,514111E+23
2423	7,353636E+22	7,353684E+22	5,217150E+22	5,217198E+22	1,470732E+23	1,043435E+23	2,514167E+23
2424	7,353677E+22	7,353370E+22	5,217134E+22	5,217120E+22	1,470705E+23	1,043425E+23	2,514130E+23
2425	7,353423E+22	7,353611E+22	5,217250E+22	5,217104E+22	1,470703E+23	1,043435E+23	2,514139E+23
2426	7,353608E+22	7,353717E+22	5,217098E+22	5,217221E+22	1,470733E+23	1,043432E+23	2,514164E+23
2427	7,353495E+22	7,353412E+22	5,217091E+22	5,217102E+22	1,470691E+23	1,043419E+23	2,514110E+23
2428	7,353397E+22	7,353654E+22	5,217196E+22	5,217081E+22	1,470705E+23	1,043428E+23	2,514133E+23
2429	7,353674E+22	7,353532E+22	5,217001E+22	5,217043E+22	1,470721E+23	1,043404E+23	2,514125E+23
2430	7,353506E+22	7,353419E+22	5,216993E+22	5,216902E+22	1,470692E+23	1,043389E+23	2,514082E+23
2431	7,353594E+22	7,353701E+22	5,216948E+22	5,216999E+22	1,470730E+23	1,043395E+23	2,514124E+23
2432	7,353682E+22	7,353487E+22	5,216827E+22	5,216896E+22	1,470717E+23	1,043372E+23	2,514089E+23
2433	7,353414E+22	7,353606E+22	5,216937E+22	5,216820E+22	1,470702E+23	1,043376E+23	2,514078E+23
2434	7,353637E+22	7,353749E+22	5,216863E+22	5,216929E+22	1,470739E+23	1,043379E+23	2,514118E+23
2435	7,353626E+22	7,353405E+22	5,216884E+22	5,216872E+22	1,470703E+23	1,043376E+23	2,514079E+23
2436	7,353426E+22	7,353605E+22	5,217093E+22	5,216928E+22	1,470703E+23	1,043402E+23	2,514105E+23
2437	7,353651E+22	7,353623E+22	5,216972E+22	5,217071E+22	1,470727E+23	1,043404E+23	2,514132E+23
2438	7,353449E+22	7,353419E+22	5,217053E+22	5,217067E+22	1,470687E+23	1,043412E+23	2,514099E+23
2439	7,353448E+22	7,353636E+22	5,217186E+22	5,217225E+22	1,470708E+23	1,043441E+23	2,514150E+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							
2440	7,353650E+22	7,353429E+22	5,217151E+22	5,217221E+22	1,470708E+23	1,043437E+23	2,514145E+23
2441	7,353410E+22	7,353413E+22	5,217315E+22	5,217177E+22	1,470682E+23	1,043449E+23	2,514131E+23
2442	7,353570E+22	7,353652E+22	5,217284E+22	5,217330E+22	1,470722E+23	1,043461E+23	2,514184E+23
2443	7,353576E+22	7,353395E+22	5,217250E+22	5,217301E+22	1,470697E+23	1,043455E+23	2,514152E+23
2444	7,353283E+22	7,353552E+22	5,217421E+22	5,217288E+22	1,470683E+23	1,043471E+23	2,514154E+23
2445	7,353525E+22	7,353633E+22	5,217267E+22	5,217350E+22	1,470716E+23	1,043462E+23	2,514178E+23
2446	7,353436E+22	7,353335E+22	5,217257E+22	5,217211E+22	1,470677E+23	1,043447E+23	2,514124E+23
2447	7,353407E+22	7,353511E+22	5,217308E+22	5,217220E+22	1,470692E+23	1,043453E+23	2,514145E+23
2448	7,353676E+22	7,353446E+22	5,217112E+22	5,217169E+22	1,470712E+23	1,043428E+23	2,514140E+23
2449	7,353425E+22	7,353396E+22	5,217103E+22	5,217048E+22	1,470682E+23	1,043415E+23	2,514097E+23
2450	7,353500E+22	7,353693E+22	5,217032E+22	5,217118E+22	1,470719E+23	1,043415E+23	2,514134E+23
2451	7,353617E+22	7,353475E+22	5,216948E+22	5,217025E+22	1,470709E+23	1,043397E+23	2,514106E+23
2452	7,353350E+22	7,353489E+22	5,217138E+22	5,216955E+22	1,470684E+23	1,043409E+23	2,514093E+23
2453	7,353588E+22	7,353662E+22	5,217051E+22	5,217058E+22	1,470725E+23	1,043411E+23	2,514136E+23
2454	7,353533E+22	7,353375E+22	5,217057E+22	5,217040E+22	1,470691E+23	1,043410E+23	2,514100E+23
2455	7,353342E+22	7,353515E+22	5,217225E+22	5,217156E+22	1,470686E+23	1,043438E+23	2,514124E+23
2456	7,353580E+22	7,353552E+22	5,217136E+22	5,217262E+22	1,470713E+23	1,043440E+23	2,514153E+23
2457	7,353374E+22	7,353336E+22	5,217241E+22	5,217235E+22	1,470671E+23	1,043448E+23	2,514119E+23
2458	7,353414E+22	7,353555E+22	5,217341E+22	5,217357E+22	1,470697E+23	1,043470E+23	2,514167E+23
2459	7,353642E+22	7,353401E+22	5,217300E+22	5,217379E+22	1,470704E+23	1,043468E+23	2,514172E+23
2460	7,353339E+22	7,353337E+22	5,217507E+22	5,217361E+22	1,470668E+23	1,043487E+23	2,514154E+23
2461	7,353467E+22	7,353640E+22	5,217450E+22	5,217496E+22	1,470711E+23	1,043495E+23	2,514205E+23
2462	7,353454E+22	7,353386E+22	5,217410E+22	5,217453E+22	1,470684E+23	1,043486E+23	2,514170E+23
2463	7,353223E+22	7,353400E+22	5,217566E+22	5,217448E+22	1,470662E+23	1,043501E+23	2,514164E+23
2464	7,353523E+22	7,353495E+22	5,217422E+22	5,217458E+22	1,470702E+23	1,043488E+23	2,514190E+23
2465	7,353406E+22	7,353234E+22	5,217385E+22	5,217330E+22	1,470664E+23	1,043471E+23	2,514135E+23
2466	7,353361E+22	7,353470E+22	5,217374E+22	5,217337E+22	1,470683E+23	1,043471E+23	2,514154E+23
2467	7,353610E+22	7,353485E+22	5,217175E+22	5,217310E+22	1,470709E+23	1,043449E+23	2,514158E+23
2468	7,353318E+22	7,353357E+22	5,217256E+22	5,217188E+22	1,470667E+23	1,043444E+23	2,514112E+23
2469	7,353418E+22	7,353653E+22	5,217210E+22	5,217212E+22	1,470707E+23	1,043442E+23	2,514149E+23
2470	7,353544E+22	7,353431E+22	5,217143E+22	5,217137E+22	1,470698E+23	1,043428E+23	2,514126E+23
2471	7,353313E+22	7,353347E+22	5,217307E+22	5,217140E+22	1,470666E+23	1,043445E+23	2,514111E+23
2472	7,353539E+22	7,353564E+22	5,217216E+22	5,217249E+22	1,470710E+23	1,043447E+23	2,514157E+23
2473	7,353424E+22	7,353320E+22	5,217204E+22	5,217257E+22	1,470674E+23	1,043446E+23	2,514121E+23
2474	7,353267E+22	7,353449E+22	5,217332E+22	5,217335E+22	1,470672E+23	1,043467E+23	2,514138E+23
2475	7,353564E+22	7,353493E+22	5,217271E+22	5,217420E+22	1,470706E+23	1,043469E+23	2,514175E+23
2476	7,353363E+22	7,353228E+22	5,217445E+22	5,217376E+22	1,470659E+23	1,043482E+23	2,514141E+23
2477	7,353391E+22	7,353509E+22	5,217521E+22	5,217471E+22	1,470690E+23	1,043499E+23	2,514189E+23
2478	7,353544E+22	7,353420E+22	5,217481E+22	5,217525E+22	1,470696E+23	1,043501E+23	2,514197E+23
2479	7,353228E+22	7,353277E+22	5,217660E+22	5,217562E+22	1,470651E+23	1,043522E+23	2,514173E+23
2480	7,353355E+22	7,353554E+22	5,217629E+22	5,217656E+22	1,470691E+23	1,043529E+23	2,514220E+23
2481	7,353350E+22	7,353282E+22	5,217594E+22	5,217607E+22	1,470663E+23	1,043520E+23	2,514183E+23
2482	7,353189E+22	7,353279E+22	5,217676E+22	5,217575E+22	1,470647E+23	1,043525E+23	2,514172E+23
2483	7,353524E+22	7,353435E+22	5,217512E+22	5,217601E+22	1,470696E+23	1,043511E+23	2,514207E+23
2484	7,353359E+22	7,353176E+22	5,217505E+22	5,217481E+22	1,470654E+23	1,043499E+23	2,514152E+23
2485	7,353283E+22	7,353488E+22	5,217471E+22	5,217454E+22	1,470677E+23	1,043492E+23	2,514170E+23
2486	7,353514E+22	7,353510E+22	5,217316E+22	5,217414E+22	1,470702E+23	1,043473E+23	2,514175E+23
2487	7,353275E+22	7,353238E+22	5,217416E+22	5,217319E+22	1,470651E+23	1,043474E+23	2,514125E+23
2488	7,353392E+22	7,353532E+22	5,217400E+22	5,217320E+22	1,470692E+23	1,043472E+23	2,514164E+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							
2489	7,353474E+22	7,353343E+22	5,217316E+22	5,217295E+22	1,470682E+23	1,043461E+23	2,514143E+23
2490	7,353231E+22	7,353276E+22	5,217408E+22	5,217322E+22	1,470651E+23	1,043473E+23	2,514124E+23
2491	7,353466E+22	7,353546E+22	5,217318E+22	5,217450E+22	1,470701E+23	1,043477E+23	2,514178E+23
2492	7,353345E+22	7,353233E+22	5,217376E+22	5,217437E+22	1,470658E+23	1,043481E+23	2,514139E+23
2493	7,353227E+22	7,353396E+22	5,217507E+22	5,217455E+22	1,470662E+23	1,043496E+23	2,514159E+23
2494	7,353536E+22	7,353468E+22	5,217465E+22	5,217537E+22	1,470700E+23	1,043500E+23	2,514201E+23
2495	7,353332E+22	7,353121E+22	5,217630E+22	5,217557E+22	1,470645E+23	1,043519E+23	2,514164E+23
2496	7,353312E+22	7,353458E+22	5,217715E+22	5,217644E+22	1,470677E+23	1,043536E+23	2,514213E+23
2497	7,353396E+22	7,353391E+22	5,217656E+22	5,217728E+22	1,470679E+23	1,043538E+23	2,514217E+23
2498	7,353117E+22	7,353187E+22	5,217789E+22	5,217738E+22	1,470630E+23	1,043553E+23	2,514183E+23
2499	7,353318E+22	7,353458E+22	5,217759E+22	5,217806E+22	1,470678E+23	1,043557E+23	2,514234E+23
2500	7,353327E+22	7,353145E+22	5,217752E+22	5,217745E+22	1,470647E+23	1,043550E+23	2,514197E+23
2501	7,353171E+22	7,353234E+22	5,217782E+22	5,217679E+22	1,470640E+23	1,043546E+23	2,514187E+23
2502	7,353461E+22	7,353463E+22	5,217622E+22	5,217716E+22	1,470692E+23	1,043534E+23	2,514226E+23
2503	7,353284E+22	7,353139E+22	5,217620E+22	5,217631E+22	1,470642E+23	1,043525E+23	2,514167E+23
2504	7,353212E+22	7,353435E+22	5,217638E+22	5,217551E+22	1,470665E+23	1,043519E+23	2,514184E+23
2505	7,353424E+22	7,353443E+22	5,217504E+22	5,217527E+22	1,470687E+23	1,043503E+23	2,514190E+23
2506	7,353230E+22	7,353129E+22	5,217549E+22	5,217452E+22	1,470636E+23	1,043500E+23	2,514136E+23
2507	7,353355E+22	7,353455E+22	5,217522E+22	5,217493E+22	1,470681E+23	1,043502E+23	2,514183E+23
2508	7,353392E+22	7,353267E+22	5,217464E+22	5,217502E+22	1,470666E+23	1,043497E+23	2,514163E+23
2509	7,353150E+22	7,353258E+22	5,217510E+22	5,217485E+22	1,470641E+23	1,043499E+23	2,514140E+23
2510	7,353401E+22	7,353519E+22	5,217471E+22	5,217588E+22	1,470692E+23	1,043506E+23	2,514198E+23
2511	7,353336E+22	7,353114E+22	5,217548E+22	5,217581E+22	1,470645E+23	1,043513E+23	2,514158E+23
2512	7,353223E+22	7,353299E+22	5,217705E+22	5,217566E+22	1,470652E+23	1,043527E+23	2,514179E+23
2513	7,353452E+22	7,353432E+22	5,217664E+22	5,217698E+22	1,470688E+23	1,043536E+23	2,514225E+23
2514	7,353219E+22	7,353087E+22	5,217767E+22	5,217750E+22	1,470631E+23	1,043552E+23	2,514182E+23
2515	7,353188E+22	7,353436E+22	5,217859E+22	5,217846E+22	1,470662E+23	1,043571E+23	2,514233E+23
2516	7,353276E+22	7,353287E+22	5,217857E+22	5,217918E+22	1,470656E+23	1,043578E+23	2,514234E+23
2517	7,353058E+22	7,353098E+22	5,217945E+22	5,217868E+22	1,470616E+23	1,043581E+23	2,514197E+23
2518	7,353301E+22	7,353389E+22	5,217917E+22	5,217931E+22	1,470669E+23	1,043585E+23	2,514254E+23
2519	7,353325E+22	7,353038E+22	5,217879E+22	5,217908E+22	1,470636E+23	1,043579E+23	2,514215E+23
2520	7,353137E+22	7,353202E+22	5,217905E+22	5,217809E+22	1,470634E+23	1,043571E+23	2,514205E+23
2521	7,353360E+22	7,353468E+22	5,217753E+22	5,217852E+22	1,470683E+23	1,043560E+23	2,514243E+23
2522	7,353211E+22	7,353076E+22	5,217732E+22	5,217747E+22	1,470629E+23	1,043548E+23	2,514177E+23
2523	7,353179E+22	7,353365E+22	5,217776E+22	5,217655E+22	1,470654E+23	1,043543E+23	2,514198E+23
2524	7,353371E+22	7,353326E+22	5,217674E+22	5,217660E+22	1,470670E+23	1,043533E+23	2,514203E+23
2525	7,353158E+22	7,353087E+22	5,217664E+22	5,217587E+22	1,470624E+23	1,043525E+23	2,514150E+23
2526	7,353265E+22	7,353453E+22	5,217642E+22	5,217652E+22	1,470672E+23	1,043529E+23	2,514201E+23
2527	7,353307E+22	7,353181E+22	5,217592E+22	5,217692E+22	1,470649E+23	1,043528E+23	2,514177E+23
2528	7,353105E+22	7,353180E+22	5,217682E+22	5,217613E+22	1,470628E+23	1,043529E+23	2,514158E+23
2529	7,353348E+22	7,353453E+22	5,217665E+22	5,217719E+22	1,470680E+23	1,043538E+23	2,514219E+23
2530	7,353307E+22	7,353029E+22	5,217702E+22	5,217731E+22	1,470634E+23	1,043543E+23	2,514177E+23
2531	7,353176E+22	7,353261E+22	5,217864E+22	5,217742E+22	1,470644E+23	1,043561E+23	2,514204E+23
2532	7,353325E+22	7,353383E+22	5,217852E+22	5,217916E+22	1,470671E+23	1,043577E+23	2,514248E+23
2533	7,353088E+22	7,353067E+22	5,217917E+22	5,217933E+22	1,470615E+23	1,043585E+23	2,514201E+23
2534	7,353106E+22	7,353365E+22	5,218042E+22	5,218006E+22	1,470647E+23	1,043605E+23	2,514252E+23
2535	7,353258E+22	7,353122E+22	5,218032E+22	5,218083E+22	1,470638E+23	1,043611E+23	2,514250E+23
2536	7,353077E+22	7,352983E+22	5,218100E+22	5,217986E+22	1,470606E+23	1,043609E+23	2,514215E+23
2537	7,353251E+22	7,353353E+22	5,218058E+22	5,218071E+22	1,470660E+23	1,043613E+23	2,514273E+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	7,353255E+22	7,353029E+22	5,217959E+22	5,218052E+22	1,470628E+23	1,043601E+23	2,514229E+23
2539	7,353060E+22	7,353202E+22	5,218013E+22	5,217935E+22	1,470626E+23	1,043595E+23	2,514221E+23
2540	7,353257E+22	7,353407E+22	5,217934E+22	5,217976E+22	1,470666E+23	1,043591E+23	2,514257E+23
2541	7,353140E+22	7,353027E+22	5,217872E+22	5,217839E+22	1,470617E+23	1,043571E+23	2,514188E+23
2542	7,353121E+22	7,353294E+22	5,217932E+22	5,217782E+22	1,470641E+23	1,043571E+23	2,514213E+23
2543	7,353308E+22	7,353213E+22	5,217811E+22	5,217849E+22	1,470652E+23	1,043566E+23	2,514218E+23
2544	7,353096E+22	7,353025E+22	5,217780E+22	5,217753E+22	1,470612E+23	1,043553E+23	2,514165E+23
2545	7,353174E+22	7,353409E+22	5,217779E+22	5,217818E+22	1,470658E+23	1,043560E+23	2,514218E+23
2546	7,353276E+22	7,353091E+22	5,217706E+22	5,217828E+22	1,470637E+23	1,043553E+23	2,514190E+23
2547	7,353113E+22	7,353105E+22	5,217830E+22	5,217725E+22	1,470622E+23	1,043555E+23	2,514177E+23
2548	7,353302E+22	7,353375E+22	5,217862E+22	5,217865E+22	1,470668E+23	1,043573E+23	2,514240E+23
2549	7,353212E+22	7,353030E+22	5,217857E+22	5,217884E+22	1,470624E+23	1,043574E+23	2,514198E+23
2550	7,353049E+22	7,353267E+22	5,218045E+22	5,217932E+22	1,470632E+23	1,043598E+23	2,514229E+23
2551	7,353200E+22	7,353285E+22	5,218046E+22	5,218135E+22	1,470649E+23	1,043618E+23	2,514267E+23
2552	7,353027E+22	7,352952E+22	5,218119E+22	5,218094E+22	1,470598E+23	1,043621E+23	2,514219E+23
2553	7,353062E+22	7,353255E+22	5,218236E+22	5,218163E+22	1,470632E+23	1,043640E+23	2,514272E+23
2554	7,353255E+22	7,353009E+22	5,218153E+22	5,218246E+22	1,470626E+23	1,043640E+23	2,514266E+23
2555	7,353070E+22	7,352957E+22	5,218206E+22	5,218141E+22	1,470603E+23	1,043635E+23	2,514237E+23
2556	7,353162E+22	7,353337E+22	5,218186E+22	5,218236E+22	1,470650E+23	1,043642E+23	2,514292E+23
2557	7,353142E+22	7,353048E+22	5,218069E+22	5,218164E+22	1,470619E+23	1,043623E+23	2,514242E+23
2558	7,352989E+22	7,353165E+22	5,218173E+22	5,218028E+22	1,470615E+23	1,043620E+23	2,514235E+23
2559	7,353201E+22	7,353263E+22	5,218098E+22	5,218099E+22	1,470646E+23	1,043620E+23	2,514266E+23
2560	7,353108E+22	7,352922E+22	5,218024E+22	5,217956E+22	1,470603E+23	1,043598E+23	2,514201E+23
2561	7,353035E+22	7,353234E+22	5,218066E+22	5,217940E+22	1,470627E+23	1,043601E+23	2,514228E+23
2562	7,353227E+22	7,353152E+22	5,217888E+22	5,218025E+22	1,470638E+23	1,043591E+23	2,514229E+23
2563	7,353049E+22	7,352986E+22	5,217883E+22	5,217892E+22	1,470604E+23	1,043578E+23	2,514181E+23
2564	7,353116E+22	7,353325E+22	5,217949E+22	5,217951E+22	1,470644E+23	1,043590E+23	2,514234E+23
2565	7,353235E+22	7,353059E+22	5,217855E+22	5,217929E+22	1,470629E+23	1,043578E+23	2,514208E+23
2566	7,353079E+22	7,353068E+22	5,218016E+22	5,217866E+22	1,470615E+23	1,043588E+23	2,514203E+23
2567	7,353209E+22	7,353299E+22	5,218053E+22	5,218073E+22	1,470651E+23	1,043613E+23	2,514263E+23
2568	7,353113E+22	7,352989E+22	5,218038E+22	5,218085E+22	1,470610E+23	1,043612E+23	2,514223E+23
2569	7,352926E+22	7,353193E+22	5,218245E+22	5,218136E+22	1,470612E+23	1,043638E+23	2,514250E+23
2570	7,353152E+22	7,353148E+22	5,218200E+22	5,218316E+22	1,470630E+23	1,043652E+23	2,514282E+23
2571	7,353044E+22	7,352837E+22	5,218261E+22	5,218237E+22	1,470588E+23	1,043650E+23	2,514238E+23
2572	7,353032E+22	7,353167E+22	5,218394E+22	5,218326E+22	1,470620E+23	1,043672E+23	2,514292E+23
2573	7,353181E+22	7,353035E+22	5,218248E+22	5,218376E+22	1,470622E+23	1,043662E+23	2,514284E+23
2574	7,352974E+22	7,352983E+22	5,218337E+22	5,218279E+22	1,470596E+23	1,043662E+23	2,514257E+23
2575	7,353047E+22	7,353271E+22	5,218359E+22	5,218380E+22	1,470632E+23	1,043674E+23	2,514306E+23
2576	7,353080E+22	7,352966E+22	5,218253E+22	5,218262E+22	1,470605E+23	1,043652E+23	2,514256E+23
2577	7,352919E+22	7,353062E+22	5,218360E+22	5,218150E+22	1,470598E+23	1,043651E+23	2,514249E+23
2578	7,353158E+22	7,353140E+22	5,218208E+22	5,218256E+22	1,470630E+23	1,043646E+23	2,514276E+23
2579	7,353073E+22	7,352862E+22	5,218110E+22	5,218118E+22	1,470593E+23	1,043623E+23	2,514216E+23
2580	7,352950E+22	7,353180E+22	5,218173E+22	5,218121E+22	1,470613E+23	1,043629E+23	2,514242E+23
2581	7,353153E+22	7,353134E+22	5,217979E+22	5,218141E+22	1,470629E+23	1,043612E+23	2,514241E+23
2582	7,353038E+22	7,352939E+22	5,218035E+22	5,217990E+22	1,470598E+23	1,043603E+23	2,514200E+23
2583	7,353092E+22	7,353218E+22	5,218130E+22	5,218076E+22	1,470631E+23	1,043621E+23	2,514252E+23
2584	7,353199E+22	7,353011E+22	5,218040E+22	5,218060E+22	1,470621E+23	1,043610E+23	2,514231E+23
2585	7,352962E+22	7,353049E+22	5,218211E+22	5,218053E+22	1,470601E+23	1,043626E+23	2,514227E+23
2586	7,353078E+22	7,353232E+22	5,218201E+22	5,218292E+22	1,470631E+23	1,043649E+23	2,514280E+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							
2587	7,353035E+22	7,352916E+22	5,218210E+22	5,218275E+22	1,470595E+23	1,043648E+23	2,514244E+23
2588	7,352861E+22	7,353063E+22	5,218435E+22	5,218322E+22	1,470592E+23	1,043676E+23	2,514268E+23
2589	7,353109E+22	7,353069E+22	5,218342E+22	5,218456E+22	1,470618E+23	1,043680E+23	2,514298E+23
2590	7,353036E+22	7,352795E+22	5,218409E+22	5,218388E+22	1,470583E+23	1,043680E+23	2,514263E+23
2591	7,352962E+22	7,353107E+22	5,218537E+22	5,218506E+22	1,470607E+23	1,043704E+23	2,514311E+23
2592	7,353102E+22	7,353029E+22	5,218398E+22	5,218516E+22	1,470613E+23	1,043691E+23	2,514305E+23
2593	7,352875E+22	7,352941E+22	5,218522E+22	5,218405E+22	1,470582E+23	1,043693E+23	2,514274E+23
2594	7,352989E+22	7,353145E+22	5,218506E+22	5,218499E+22	1,470613E+23	1,043700E+23	2,514314E+23
2595	7,353068E+22	7,352863E+22	5,218391E+22	5,218371E+22	1,470593E+23	1,043676E+23	2,514269E+23
2596	7,352854E+22	7,352961E+22	5,218491E+22	5,218310E+22	1,470582E+23	1,043680E+23	2,514262E+23
2597	7,353057E+22	7,353131E+22	5,218280E+22	5,218396E+22	1,470619E+23	1,043668E+23	2,514286E+23
2598	7,353004E+22	7,352859E+22	5,218208E+22	5,218262E+22	1,470586E+23	1,043647E+23	2,514233E+23
2599	7,352880E+22	7,353101E+22	5,218316E+22	5,218262E+22	1,470598E+23	1,043658E+23	2,514256E+23
2600	7,353139E+22	7,353075E+22	5,218147E+22	5,218232E+22	1,470621E+23	1,043638E+23	2,514259E+23
2601	7,352999E+22	7,352877E+22	5,218235E+22	5,218113E+22	1,470588E+23	1,043635E+23	2,514222E+23
2602	7,353037E+22	7,353138E+22	5,218283E+22	5,218247E+22	1,470618E+23	1,043653E+23	2,514271E+23
2603	7,353129E+22	7,352978E+22	5,218185E+22	5,218251E+22	1,470611E+23	1,043644E+23	2,514254E+23
2604	7,352828E+22	7,352981E+22	5,218380E+22	5,218282E+22	1,470581E+23	1,043666E+23	2,514247E+23
2605	7,352971E+22	7,353168E+22	5,218341E+22	5,218453E+22	1,470614E+23	1,043679E+23	2,514293E+23
2606	7,353015E+22	7,352811E+22	5,218377E+22	5,218421E+22	1,470583E+23	1,043680E+23	2,514262E+23
2607	7,352844E+22	7,352926E+22	5,218608E+22	5,218484E+22	1,470577E+23	1,043709E+23	2,514286E+23
2608	7,353095E+22	7,353019E+22	5,218499E+22	5,218593E+22	1,470611E+23	1,043709E+23	2,514321E+23
2609	7,352946E+22	7,352799E+22	5,218581E+22	5,218544E+22	1,470574E+23	1,043713E+23	2,514287E+23
2610	7,352860E+22	7,353068E+22	5,218675E+22	5,218665E+22	1,470593E+23	1,043734E+23	2,514327E+23
2611	7,353034E+22	7,352978E+22	5,218566E+22	5,218640E+22	1,470601E+23	1,043721E+23	2,514322E+23
2612	7,352791E+22	7,352836E+22	5,218708E+22	5,218554E+22	1,470563E+23	1,043726E+23	2,514289E+23
2613	7,352910E+22	7,353070E+22	5,218630E+22	5,218620E+22	1,470598E+23	1,043725E+23	2,514323E+23
2614	7,353029E+22	7,352807E+22	5,218509E+22	5,218529E+22	1,470584E+23	1,043704E+23	2,514287E+23
2615	7,352776E+22	7,352888E+22	5,218593E+22	5,218497E+22	1,470566E+23	1,043709E+23	2,514275E+23
2616	7,353004E+22	7,353099E+22	5,218389E+22	5,218531E+22	1,470610E+23	1,043692E+23	2,514302E+23
2617	7,352959E+22	7,352815E+22	5,218364E+22	5,218365E+22	1,470577E+23	1,043673E+23	2,514250E+23
2618	7,352875E+22	7,352990E+22	5,218444E+22	5,218360E+22	1,470587E+23	1,043680E+23	2,514267E+23
2619	7,353146E+22	7,353018E+22	5,218296E+22	5,218332E+22	1,470616E+23	1,043663E+23	2,514279E+23
2620	7,352915E+22	7,352828E+22	5,218393E+22	5,218284E+22	1,470574E+23	1,043668E+23	2,514242E+23
2621	7,352881E+22	7,353131E+22	5,218407E+22	5,218412E+22	1,470601E+23	1,043682E+23	2,514283E+23
2622	7,353017E+22	7,352948E+22	5,218347E+22	5,218439E+22	1,470596E+23	1,043679E+23	2,514275E+23
2623	7,352734E+22	7,352847E+22	5,218568E+22	5,218471E+22	1,470558E+23	1,043704E+23	2,514262E+23
2624	7,352954E+22	7,353053E+22	5,218532E+22	5,218594E+22	1,470601E+23	1,043713E+23	2,514313E+23
2625	7,352998E+22	7,352730E+22	5,218573E+22	5,218570E+22	1,470573E+23	1,043714E+23	2,514287E+23
2626	7,352818E+22	7,352846E+22	5,218740E+22	5,218663E+22	1,470566E+23	1,043740E+23	2,514307E+23
2627	7,353046E+22	7,353017E+22	5,218637E+22	5,218761E+22	1,470606E+23	1,043740E+23	2,514346E+23
2628	7,352827E+22	7,352771E+22	5,218748E+22	5,218733E+22	1,470560E+23	1,043748E+23	2,514308E+23
2629	7,352743E+22	7,353023E+22	5,218827E+22	5,218782E+22	1,470577E+23	1,043761E+23	2,514337E+23
2630	7,352997E+22	7,352895E+22	5,218733E+22	5,218765E+22	1,470589E+23	1,043750E+23	2,514339E+23
2631	7,352733E+22	7,352708E+22	5,218862E+22	5,218712E+22	1,470544E+23	1,043757E+23	2,514301E+23
2632	7,352863E+22	7,353011E+22	5,218753E+22	5,218760E+22	1,470587E+23	1,043751E+23	2,514339E+23
2633	7,352941E+22	7,352789E+22	5,218637E+22	5,218679E+22	1,470573E+23	1,043732E+23	2,514305E+23
2634	7,352719E+22	7,352827E+22	5,218683E+22	5,218641E+22	1,470555E+23	1,043732E+23	2,514287E+23
2635	7,352998E+22	7,353040E+22	5,218517E+22	5,218620E+22	1,470604E+23	1,043714E+23	2,514318E+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							
2636	7,352915E+22	7,352738E+22	5,218524E+22	5,218483E+22	1,470565E+23	1,043701E+23	2,514266E+23
2637	7,352807E+22	7,352951E+22	5,218570E+22	5,218453E+22	1,470576E+23	1,043702E+23	2,514278E+23
2638	7,353081E+22	7,352991E+22	5,218436E+22	5,218489E+22	1,470607E+23	1,043693E+23	2,514300E+23
2639	7,352786E+22	7,352766E+22	5,218548E+22	5,218497E+22	1,470555E+23	1,043704E+23	2,514260E+23
2640	7,352788E+22	7,353067E+22	5,218570E+22	5,218584E+22	1,470585E+23	1,043715E+23	2,514301E+23
2641	7,352951E+22	7,352851E+22	5,218550E+22	5,218591E+22	1,470580E+23	1,043714E+23	2,514294E+23
2642	7,352736E+22	7,352700E+22	5,218713E+22	5,218625E+22	1,470544E+23	1,043734E+23	2,514277E+23
2643	7,352974E+22	7,352969E+22	5,218685E+22	5,218735E+22	1,470594E+23	1,043742E+23	2,514336E+23
2644	7,352923E+22	7,352706E+22	5,218729E+22	5,218761E+22	1,470563E+23	1,043749E+23	2,514312E+23
2645	7,352686E+22	7,352871E+22	5,218864E+22	5,218816E+22	1,470556E+23	1,043768E+23	2,514324E+23
2646	7,352948E+22	7,353014E+22	5,218810E+22	5,218924E+22	1,470596E+23	1,043773E+23	2,514370E+23
2647	7,352724E+22	7,352674E+22	5,218952E+22	5,218902E+22	1,470540E+23	1,043785E+23	2,514325E+23
2648	7,352691E+22	7,352920E+22	5,219019E+22	5,218913E+22	1,470561E+23	1,043793E+23	2,514354E+23
2649	7,352945E+22	7,352810E+22	5,218918E+22	5,218914E+22	1,470576E+23	1,043783E+23	2,514359E+23
2650	7,352696E+22	7,352600E+22	5,218951E+22	5,218892E+22	1,470530E+23	1,043784E+23	2,514314E+23
2651	7,352832E+22	7,352968E+22	5,218843E+22	5,218911E+22	1,470580E+23	1,043775E+23	2,514355E+23
2652	7,352871E+22	7,352748E+22	5,218743E+22	5,218821E+22	1,470562E+23	1,043756E+23	2,514318E+23
2653	7,352662E+22	7,352773E+22	5,218779E+22	5,218701E+22	1,470544E+23	1,043748E+23	2,514292E+23
2654	7,352997E+22	7,352989E+22	5,218653E+22	5,218696E+22	1,470599E+23	1,043735E+23	2,514334E+23
2655	7,352852E+22	7,352664E+22	5,218676E+22	5,218616E+22	1,470552E+23	1,043729E+23	2,514281E+23
2656	7,352713E+22	7,352926E+22	5,218723E+22	5,218594E+22	1,470564E+23	1,043732E+23	2,514296E+23
2657	7,352940E+22	7,352977E+22	5,218615E+22	5,218660E+22	1,470592E+23	1,043728E+23	2,514319E+23
2658	7,352691E+22	7,352660E+22	5,218690E+22	5,218688E+22	1,470535E+23	1,043738E+23	2,514273E+23
2659	7,352767E+22	7,352951E+22	5,218744E+22	5,218735E+22	1,470572E+23	1,043748E+23	2,514320E+23
2660	7,352914E+22	7,352744E+22	5,218724E+22	5,218773E+22	1,470566E+23	1,043750E+23	2,514316E+23
2661	7,352690E+22	7,352647E+22	5,218840E+22	5,218772E+22	1,470534E+23	1,043761E+23	2,514295E+23
2662	7,352936E+22	7,352965E+22	5,218825E+22	5,218919E+22	1,470590E+23	1,043774E+23	2,514365E+23
2663	7,352806E+22	7,352686E+22	5,218897E+22	5,218971E+22	1,470549E+23	1,043787E+23	2,514336E+23
2664	7,352596E+22	7,352836E+22	5,219056E+22	5,218964E+22	1,470543E+23	1,043802E+23	2,514345E+23
2665	7,352871E+22	7,352928E+22	5,219041E+22	5,219053E+22	1,470580E+23	1,043809E+23	2,514389E+23
2666	7,352700E+22	7,352528E+22	5,219113E+22	5,219056E+22	1,470523E+23	1,043817E+23	2,514340E+23
2667	7,352686E+22	7,352812E+22	5,219157E+22	5,219054E+22	1,470550E+23	1,043821E+23	2,514371E+23
2668	7,352850E+22	7,352756E+22	5,219033E+22	5,219100E+22	1,470561E+23	1,043813E+23	2,514374E+23
2669	7,352590E+22	7,352593E+22	5,219015E+22	5,219015E+22	1,470518E+23	1,043803E+23	2,514321E+23
2670	7,352788E+22	7,352939E+22	5,218949E+22	5,219023E+22	1,470573E+23	1,043797E+23	2,514370E+23
2671	7,352809E+22	7,352676E+22	5,218896E+22	5,218930E+22	1,470548E+23	1,043783E+23	2,514331E+23
2672	7,352637E+22	7,352718E+22	5,218938E+22	5,218778E+22	1,470535E+23	1,043772E+23	2,514307E+23
2673	7,352926E+22	7,352950E+22	5,218839E+22	5,218813E+22	1,470588E+23	1,043765E+23	2,514353E+23
2674	7,352769E+22	7,352597E+22	5,218797E+22	5,218805E+22	1,470537E+23	1,043760E+23	2,514297E+23
2675	7,352632E+22	7,352864E+22	5,218860E+22	5,218778E+22	1,470550E+23	1,043764E+23	2,514313E+23
2676	7,352831E+22	7,352890E+22	5,218775E+22	5,218859E+22	1,470572E+23	1,043763E+23	2,514335E+23
2677	7,352641E+22	7,352557E+22	5,218811E+22	5,218811E+22	1,470520E+23	1,043762E+23	2,514282E+23
2678	7,352792E+22	7,352863E+22	5,218883E+22	5,218876E+22	1,470566E+23	1,043776E+23	2,514341E+23
2679	7,352872E+22	7,352684E+22	5,218879E+22	5,218948E+22	1,470556E+23	1,043783E+23	2,514338E+23
2680	7,352621E+22	7,352649E+22	5,219001E+22	5,218927E+22	1,470527E+23	1,043793E+23	2,514320E+23
2681	7,352815E+22	7,352978E+22	5,219039E+22	5,219080E+22	1,470579E+23	1,043812E+23	2,514391E+23
2682	7,352718E+22	7,352597E+22	5,219082E+22	5,219147E+22	1,470532E+23	1,043823E+23	2,514354E+23
2683	7,352554E+22	7,352716E+22	5,219266E+22	5,219110E+22	1,470527E+23	1,043838E+23	2,514365E+23
2684	7,352794E+22	7,352817E+22	5,219225E+22	5,219234E+22	1,470561E+23	1,043846E+23	2,514407E+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	7,352626E+22	7,352438E+22	5,219215E+22	5,219207E+22	1,470506E+23	1,043842E+23	2,514349E+23
2686	7,352644E+22	7,352773E+22	5,219249E+22	5,219232E+22	1,470542E+23	1,043848E+23	2,514390E+23
2687	7,352756E+22	7,352719E+22	5,219138E+22	5,219275E+22	1,470547E+23	1,043841E+23	2,514389E+23
2688	7,352545E+22	7,352556E+22	5,219144E+22	5,219106E+22	1,470510E+23	1,043825E+23	2,514335E+23
2689	7,352754E+22	7,352886E+22	5,219129E+22	5,219087E+22	1,470564E+23	1,043822E+23	2,514386E+23
2690	7,352790E+22	7,352580E+22	5,219027E+22	5,219037E+22	1,470537E+23	1,043806E+23	2,514343E+23
2691	7,352601E+22	7,352655E+22	5,219084E+22	5,218902E+22	1,470526E+23	1,043799E+23	2,514324E+23
2692	7,352779E+22	7,352921E+22	5,218979E+22	5,219003E+22	1,470570E+23	1,043798E+23	2,514368E+23
2693	7,352630E+22	7,352556E+22	5,218900E+22	5,218966E+22	1,470519E+23	1,043787E+23	2,514305E+23
2694	7,352585E+22	7,352780E+22	5,218997E+22	5,218943E+22	1,470537E+23	1,043794E+23	2,514330E+23
2695	7,352782E+22	7,352770E+22	5,218945E+22	5,219028E+22	1,470555E+23	1,043797E+23	2,514352E+23
2696	7,352646E+22	7,352483E+22	5,218971E+22	5,218935E+22	1,470513E+23	1,043791E+23	2,514304E+23
2697	7,352760E+22	7,352825E+22	5,219069E+22	5,219020E+22	1,470558E+23	1,043809E+23	2,514367E+23
2698	7,352809E+22	7,352650E+22	5,219021E+22	5,219146E+22	1,470546E+23	1,043817E+23	2,514363E+23
2699	7,352555E+22	7,352613E+22	5,219178E+22	5,219098E+22	1,470517E+23	1,043828E+23	2,514344E+23
2700	7,352685E+22	7,352899E+22	5,219249E+22	5,219261E+22	1,470558E+23	1,043851E+23	2,514409E+23
2701	7,352640E+22	7,352489E+22	5,219247E+22	5,219278E+22	1,470513E+23	1,043853E+23	2,514365E+23
2702	7,352539E+22	7,352606E+22	5,219413E+22	5,219274E+22	1,470514E+23	1,043869E+23	2,514383E+23
2703	7,352706E+22	7,352733E+22	5,219366E+22	5,219430E+22	1,470544E+23	1,043880E+23	2,514424E+23
2704	7,352549E+22	7,352426E+22	5,219326E+22	5,219355E+22	1,470498E+23	1,043868E+23	2,514366E+23
2705	7,352558E+22	7,352762E+22	5,219402E+22	5,219358E+22	1,470532E+23	1,043876E+23	2,514408E+23
2706	7,352712E+22	7,352644E+22	5,219271E+22	5,219398E+22	1,470536E+23	1,043867E+23	2,514402E+23
2707	7,352547E+22	7,352471E+22	5,219310E+22	5,219193E+22	1,470502E+23	1,043850E+23	2,514352E+23
2708	7,352680E+22	7,352817E+22	5,219296E+22	5,219217E+22	1,470550E+23	1,043851E+23	2,514401E+23
2709	7,352704E+22	7,352529E+22	5,219130E+22	5,219167E+22	1,470523E+23	1,043830E+23	2,514353E+23
2710	7,352529E+22	7,352619E+22	5,219184E+22	5,219087E+22	1,470515E+23	1,043827E+23	2,514342E+23
2711	7,352656E+22	7,352855E+22	5,219109E+22	5,219199E+22	1,470551E+23	1,043831E+23	2,514382E+23
2712	7,352586E+22	7,352470E+22	5,219044E+22	5,219086E+22	1,470506E+23	1,043813E+23	2,514319E+23
2713	7,352585E+22	7,352689E+22	5,219178E+22	5,219046E+22	1,470527E+23	1,043822E+23	2,514350E+23
2714	7,352797E+22	7,352665E+22	5,219072E+22	5,219169E+22	1,470546E+23	1,043824E+23	2,514370E+23
2715	7,352631E+22	7,352437E+22	5,219126E+22	5,219079E+22	1,470507E+23	1,043821E+23	2,514327E+23
2716	7,352622E+22	7,352830E+22	5,219237E+22	5,219206E+22	1,470545E+23	1,043844E+23	2,514390E+23
2717	7,352668E+22	7,352622E+22	5,219171E+22	5,219301E+22	1,470529E+23	1,043847E+23	2,514376E+23
2718	7,352483E+22	7,352538E+22	5,219368E+22	5,219273E+22	1,470502E+23	1,043864E+23	2,514366E+23
2719	7,352585E+22	7,352783E+22	5,219454E+22	5,219452E+22	1,470537E+23	1,043891E+23	2,514427E+23
2720	7,352592E+22	7,352396E+22	5,219422E+22	5,219438E+22	1,470499E+23	1,043886E+23	2,514385E+23
2721	7,352484E+22	7,352545E+22	5,219582E+22	5,219447E+22	1,470503E+23	1,043903E+23	2,514406E+23
2722	7,352645E+22	7,352668E+22	5,219471E+22	5,219630E+22	1,470531E+23	1,043910E+23	2,514441E+23
2723	7,352522E+22	7,352375E+22	5,219463E+22	5,219494E+22	1,470490E+23	1,043896E+23	2,514385E+23
2724	7,352492E+22	7,352697E+22	5,219561E+22	5,219474E+22	1,470519E+23	1,043904E+23	2,514422E+23
2725	7,352680E+22	7,352569E+22	5,219392E+22	5,219465E+22	1,470525E+23	1,043886E+23	2,514411E+23
2726	7,352542E+22	7,352415E+22	5,219430E+22	5,219309E+22	1,470496E+23	1,043874E+23	2,514370E+23
2727	7,352556E+22	7,352773E+22	5,219431E+22	5,219384E+22	1,470533E+23	1,043882E+23	2,514414E+23
2728	7,352589E+22	7,352521E+22	5,219255E+22	5,219311E+22	1,470511E+23	1,043857E+23	2,514368E+23
2729	7,352436E+22	7,352565E+22	5,219343E+22	5,219226E+22	1,470500E+23	1,043857E+23	2,514357E+23
2730	7,352616E+22	7,352731E+22	5,219249E+22	5,219351E+22	1,470535E+23	1,043860E+23	2,514395E+23
2731	7,352614E+22	7,352364E+22	5,219197E+22	5,219200E+22	1,470498E+23	1,043840E+23	2,514337E+23
2732	7,352535E+22	7,352617E+22	5,219329E+22	5,219195E+22	1,470515E+23	1,043852E+23	2,514368E+23
2733	7,352728E+22	7,352637E+22	5,219184E+22	5,219313E+22	1,470537E+23	1,043850E+23	2,514386E+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	7,352564E+22	7,352437E+22	5,219254E+22	5,219271E+22	1,470500E+23	1,043852E+23	2,514353E+23
2735	7,352473E+22	7,352783E+22	5,219427E+22	5,219404E+22	1,470526E+23	1,043883E+23	2,514409E+23
2736	7,352589E+22	7,352546E+22	5,219375E+22	5,219438E+22	1,470513E+23	1,043881E+23	2,514395E+23
2737	7,352441E+22	7,352428E+22	5,219586E+22	5,219417E+22	1,470487E+23	1,043900E+23	2,514387E+23
2738	7,352550E+22	7,352652E+22	5,219609E+22	5,219642E+22	1,470520E+23	1,043925E+23	2,514445E+23
2739	7,352562E+22	7,352325E+22	5,219570E+22	5,219615E+22	1,470489E+23	1,043918E+23	2,514407E+23
2740	7,352372E+22	7,352520E+22	5,219720E+22	5,219634E+22	1,470489E+23	1,043935E+23	2,514425E+23
2741	7,352570E+22	7,352622E+22	5,219586E+22	5,219753E+22	1,470519E+23	1,043934E+23	2,514453E+23
2742	7,352511E+22	7,352323E+22	5,219604E+22	5,219610E+22	1,470483E+23	1,043921E+23	2,514405E+23
2743	7,352424E+22	7,352627E+22	5,219730E+22	5,219596E+22	1,470505E+23	1,043933E+23	2,514438E+23
2744	7,352627E+22	7,352524E+22	5,219541E+22	5,219568E+22	1,470515E+23	1,043911E+23	2,514426E+23
2745	7,352460E+22	7,352391E+22	5,219583E+22	5,219456E+22	1,470485E+23	1,043904E+23	2,514389E+23
2746	7,352455E+22	7,352707E+22	5,219530E+22	5,219571E+22	1,470516E+23	1,043910E+23	2,514426E+23
2747	7,352537E+22	7,352428E+22	5,219392E+22	5,219454E+22	1,470497E+23	1,043885E+23	2,514381E+23
2748	7,352379E+22	7,352464E+22	5,219489E+22	5,219354E+22	1,470484E+23	1,043884E+23	2,514369E+23
2749	7,352612E+22	7,352619E+22	5,219349E+22	5,219442E+22	1,470523E+23	1,043879E+23	2,514402E+23
2750	7,352625E+22	7,352323E+22	5,219304E+22	5,219333E+22	1,470495E+23	1,043864E+23	2,514358E+23
2751	7,352424E+22	7,352611E+22	5,219469E+22	5,219364E+22	1,470503E+23	1,043883E+23	2,514387E+23
2752	7,352606E+22	7,352657E+22	5,219343E+22	5,219456E+22	1,470526E+23	1,043880E+23	2,514406E+23
2753	7,352456E+22	7,352405E+22	5,219476E+22	5,219427E+22	1,470486E+23	1,043890E+23	2,514376E+23
2754	7,352391E+22	7,352653E+22	5,219632E+22	5,219588E+22	1,470504E+23	1,043922E+23	2,514426E+23
2755	7,352572E+22	7,352411E+22	5,219590E+22	5,219608E+22	1,470498E+23	1,043920E+23	2,514418E+23
2756	7,352374E+22	7,352324E+22	5,219764E+22	5,219618E+22	1,470470E+23	1,043938E+23	2,514408E+23
2757	7,352491E+22	7,352580E+22	5,219715E+22	5,219826E+22	1,470507E+23	1,043954E+23	2,514461E+23
2758	7,352529E+22	7,352313E+22	5,219669E+22	5,219802E+22	1,470484E+23	1,043947E+23	2,514431E+23
2759	7,352283E+22	7,352475E+22	5,219871E+22	5,219792E+22	1,470476E+23	1,043966E+23	2,514442E+23
2760	7,352537E+22	7,352580E+22	5,219754E+22	5,219830E+22	1,470512E+23	1,043958E+23	2,514470E+23
2761	7,352488E+22	7,352272E+22	5,219783E+22	5,219699E+22	1,470476E+23	1,043948E+23	2,514424E+23
2762	7,352350E+22	7,352546E+22	5,219867E+22	5,219743E+22	1,470490E+23	1,043961E+23	2,514451E+23
2763	7,352545E+22	7,352481E+22	5,219679E+22	5,219714E+22	1,470503E+23	1,043939E+23	2,514442E+23
2764	7,352310E+22	7,352342E+22	5,219711E+22	5,219624E+22	1,470465E+23	1,043934E+23	2,514399E+23
2765	7,352373E+22	7,352605E+22	5,219634E+22	5,219696E+22	1,470498E+23	1,043933E+23	2,514431E+23
2766	7,352544E+22	7,352343E+22	5,219501E+22	5,219580E+22	1,470489E+23	1,043908E+23	2,514397E+23
2767	7,352340E+22	7,352381E+22	5,219621E+22	5,219488E+22	1,470472E+23	1,043911E+23	2,514383E+23
2768	7,352583E+22	7,352592E+22	5,219479E+22	5,219547E+22	1,470518E+23	1,043903E+23	2,514420E+23
2769	7,352558E+22	7,352335E+22	5,219457E+22	5,219481E+22	1,470489E+23	1,043894E+23	2,514383E+23
2770	7,352313E+22	7,352570E+22	5,219621E+22	5,219552E+22	1,470488E+23	1,043917E+23	2,514406E+23
2771	7,352540E+22	7,352572E+22	5,219552E+22	5,219611E+22	1,470511E+23	1,043916E+23	2,514427E+23
2772	7,352372E+22	7,352291E+22	5,219692E+22	5,219591E+22	1,470466E+23	1,043928E+23	2,514395E+23
2773	7,352361E+22	7,352510E+22	5,219783E+22	5,219744E+22	1,470487E+23	1,043953E+23	2,514440E+23
2774	7,352555E+22	7,352342E+22	5,219717E+22	5,219806E+22	1,470490E+23	1,043952E+23	2,514442E+23
2775	7,352267E+22	7,352297E+22	5,219895E+22	5,219829E+22	1,470456E+23	1,043972E+23	2,514429E+23
2776	7,352404E+22	7,352572E+22	5,219854E+22	5,219969E+22	1,470498E+23	1,043982E+23	2,514480E+23
2777	7,352469E+22	7,352299E+22	5,219858E+22	5,219928E+22	1,470477E+23	1,043979E+23	2,514455E+23
2778	7,352234E+22	7,352391E+22	5,220042E+22	5,219920E+22	1,470463E+23	1,043996E+23	2,514459E+23
2779	7,352511E+22	7,352487E+22	5,219945E+22	5,219945E+22	1,470500E+23	1,043989E+23	2,514489E+23
2780	7,352384E+22	7,352213E+22	5,219951E+22	5,219858E+22	1,470460E+23	1,043981E+23	2,514441E+23
2781	7,352248E+22	7,352470E+22	5,219957E+22	5,219907E+22	1,470472E+23	1,043986E+23	2,514458E+23
2782	7,352473E+22	7,352436E+22	5,219765E+22	5,219891E+22	1,470491E+23	1,043966E+23	2,514457E+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							
2783	7,352228E+22	7,352252E+22	5,219830E+22	5,219770E+22	1,470448E+23	1,043960E+23	2,514408E+23
2784	7,352370E+22	7,352515E+22	5,219758E+22	5,219765E+22	1,470488E+23	1,043952E+23	2,514441E+23
2785	7,352558E+22	7,352298E+22	5,219638E+22	5,219667E+22	1,470486E+23	1,043930E+23	2,514416E+23
2786	7,352295E+22	7,352333E+22	5,219739E+22	5,219627E+22	1,470463E+23	1,043937E+23	2,514399E+23
2787	7,352510E+22	7,352581E+22	5,219640E+22	5,219688E+22	1,470509E+23	1,043933E+23	2,514442E+23
2788	7,352412E+22	7,352318E+22	5,219644E+22	5,219651E+22	1,470473E+23	1,043929E+23	2,514403E+23
2789	7,352216E+22	7,352464E+22	5,219793E+22	5,219708E+22	1,470468E+23	1,043950E+23	2,514418E+23
2790	7,352506E+22	7,352478E+22	5,219725E+22	5,219789E+22	1,470498E+23	1,043951E+23	2,514450E+23
2791	7,352300E+22	7,352177E+22	5,219868E+22	5,219794E+22	1,470448E+23	1,043966E+23	2,514414E+23
2792	7,352316E+22	7,352447E+22	5,219932E+22	5,219915E+22	1,470476E+23	1,043985E+23	2,514461E+23
2793	7,352500E+22	7,352339E+22	5,219855E+22	5,219996E+22	1,470484E+23	1,043985E+23	2,514469E+23
2794	7,352185E+22	7,352246E+22	5,220033E+22	5,220020E+22	1,470443E+23	1,044005E+23	2,514448E+23
2795	7,352376E+22	7,352499E+22	5,220051E+22	5,220088E+22	1,470488E+23	1,044014E+23	2,514501E+23
2796	7,352405E+22	7,352221E+22	5,220058E+22	5,220039E+22	1,470463E+23	1,044010E+23	2,514472E+23
2797	7,352191E+22	7,352284E+22	5,220185E+22	5,220037E+22	1,470447E+23	1,044022E+23	2,514470E+23
2798	7,352449E+22	7,352448E+22	5,220061E+22	5,220105E+22	1,470490E+23	1,044017E+23	2,514506E+23
2799	7,352234E+22	7,352174E+22	5,220071E+22	5,220046E+22	1,470441E+23	1,044012E+23	2,514452E+23
2800	7,352146E+22	7,352417E+22	5,220076E+22	5,220032E+22	1,470456E+23	1,044011E+23	2,514467E+23
2801	7,352430E+22	7,352373E+22	5,219908E+22	5,220008E+22	1,470480E+23	1,043992E+23	2,514472E+23
2802	7,352213E+22	7,352145E+22	5,219954E+22	5,219892E+22	1,470436E+23	1,043985E+23	2,514420E+23
2803	7,352391E+22	7,352430E+22	5,219907E+22	5,219866E+22	1,470482E+23	1,043977E+23	2,514459E+23
2804	7,352485E+22	7,352283E+22	5,219785E+22	5,219804E+22	1,470477E+23	1,043959E+23	2,514436E+23
2805	7,352211E+22	7,352302E+22	5,219844E+22	5,219783E+22	1,470451E+23	1,043963E+23	2,514414E+23
2806	7,352421E+22	7,352559E+22	5,219778E+22	5,219863E+22	1,470498E+23	1,043964E+23	2,514462E+23
2807	7,352303E+22	7,352232E+22	5,219831E+22	5,219828E+22	1,470454E+23	1,043966E+23	2,514419E+23
2808	7,352176E+22	7,352345E+22	5,219967E+22	5,219837E+22	1,470452E+23	1,043980E+23	2,514432E+23
2809	7,352476E+22	7,352403E+22	5,219894E+22	5,219959E+22	1,470488E+23	1,043985E+23	2,514473E+23
2810	7,352235E+22	7,352108E+22	5,219995E+22	5,219994E+22	1,470434E+23	1,043999E+23	2,514433E+23
2811	7,352255E+22	7,352398E+22	5,220090E+22	5,220088E+22	1,470465E+23	1,044018E+23	2,514483E+23
2812	7,352388E+22	7,352315E+22	5,220046E+22	5,220153E+22	1,470470E+23	1,044020E+23	2,514490E+23
2813	7,352137E+22	7,352151E+22	5,220199E+22	5,220149E+22	1,470429E+23	1,044035E+23	2,514464E+23
2814	7,352351E+22	7,352429E+22	5,220226E+22	5,220225E+22	1,470478E+23	1,044045E+23	2,514523E+23
2815	7,352318E+22	7,352144E+22	5,220237E+22	5,220208E+22	1,470446E+23	1,044044E+23	2,514491E+23
2816	7,352101E+22	7,352228E+22	5,220322E+22	5,220185E+22	1,470433E+23	1,044051E+23	2,514484E+23
2817	7,352348E+22	7,352435E+22	5,220182E+22	5,220285E+22	1,470478E+23	1,044047E+23	2,514525E+23
2818	7,352144E+22	7,352090E+22	5,220182E+22	5,220219E+22	1,470423E+23	1,044040E+23	2,514463E+23
2819	7,352146E+22	7,352298E+22	5,220229E+22	5,220135E+22	1,470444E+23	1,044036E+23	2,514481E+23
2820	7,352413E+22	7,352293E+22	5,220057E+22	5,220098E+22	1,470471E+23	1,044015E+23	2,514486E+23
2821	7,352214E+22	7,352064E+22	5,220047E+22	5,219994E+22	1,470428E+23	1,044004E+23	2,514432E+23
2822	7,352347E+22	7,352438E+22	5,220005E+22	5,220001E+22	1,470478E+23	1,044001E+23	2,514479E+23
2823	7,352340E+22	7,352282E+22	5,219921E+22	5,219973E+22	1,470462E+23	1,043989E+23	2,514452E+23
2824	7,352095E+22	7,352264E+22	5,220008E+22	5,219912E+22	1,470436E+23	1,043992E+23	2,514428E+23
2825	7,352346E+22	7,352498E+22	5,219961E+22	5,220010E+22	1,470484E+23	1,043997E+23	2,514481E+23
2826	7,352242E+22	7,352095E+22	5,220004E+22	5,220009E+22	1,470434E+23	1,044001E+23	2,514435E+23
2827	7,352169E+22	7,352217E+22	5,220150E+22	5,220003E+22	1,470439E+23	1,044015E+23	2,514454E+23
2828	7,352400E+22	7,352347E+22	5,220053E+22	5,220145E+22	1,470475E+23	1,044020E+23	2,514494E+23
2829	7,352178E+22	7,352049E+22	5,220105E+22	5,220179E+22	1,470423E+23	1,044028E+23	2,514451E+23
2830	7,352213E+22	7,352367E+22	5,220233E+22	5,220248E+22	1,470458E+23	1,044048E+23	2,514506E+23
2831	7,352312E+22	7,352245E+22	5,220241E+22	5,220297E+22	1,470456E+23	1,044054E+23	2,514509E+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	7,352098E+22	7,352075E+22	5,220383E+22	5,220251E+22	1,470417E+23	1,044063E+23	2,514481E+23
2833	7,352284E+22	7,352394E+22	5,220395E+22	5,220380E+22	1,470468E+23	1,044077E+23	2,514545E+23
2834	7,352196E+22	7,352089E+22	5,220378E+22	5,220408E+22	1,470429E+23	1,044079E+23	2,514507E+23
2835	7,352013E+22	7,352157E+22	5,220474E+22	5,220354E+22	1,470417E+23	1,044083E+23	2,514500E+23
2836	7,352241E+22	7,352371E+22	5,220344E+22	5,220430E+22	1,470461E+23	1,044077E+23	2,514539E+23
2837	7,352134E+22	7,351974E+22	5,220292E+22	5,220335E+22	1,470411E+23	1,044063E+23	2,514474E+23
2838	7,352169E+22	7,352226E+22	5,220340E+22	5,220246E+22	1,470439E+23	1,044059E+23	2,514498E+23
2839	7,352364E+22	7,352253E+22	5,220187E+22	5,220231E+22	1,470462E+23	1,044042E+23	2,514503E+23
2840	7,352149E+22	7,352056E+22	5,220152E+22	5,220107E+22	1,470420E+23	1,044026E+23	2,514446E+23
2841	7,352237E+22	7,352457E+22	5,220131E+22	5,220154E+22	1,470469E+23	1,044029E+23	2,514498E+23
2842	7,352228E+22	7,352211E+22	5,220075E+22	5,220134E+22	1,470444E+23	1,044021E+23	2,514465E+23
2843	7,352065E+22	7,352117E+22	5,220203E+22	5,220034E+22	1,470418E+23	1,044024E+23	2,514442E+23
2844	7,352292E+22	7,352384E+22	5,220152E+22	5,220145E+22	1,470468E+23	1,044030E+23	2,514497E+23
2845	7,352225E+22	7,351984E+22	5,220117E+22	5,220175E+22	1,470421E+23	1,044029E+23	2,514450E+23
2846	7,352126E+22	7,352188E+22	5,220259E+22	5,220189E+22	1,470431E+23	1,044045E+23	2,514476E+23
2847	7,352283E+22	7,352328E+22	5,220205E+22	5,220335E+22	1,470461E+23	1,044054E+23	2,514515E+23
2848	7,352098E+22	7,352012E+22	5,220277E+22	5,220306E+22	1,470411E+23	1,044058E+23	2,514469E+23
2849	7,352155E+22	7,352335E+22	5,220430E+22	5,220389E+22	1,470449E+23	1,044082E+23	2,514531E+23
2850	7,352243E+22	7,352154E+22	5,220440E+22	5,220470E+22	1,470440E+23	1,044091E+23	2,514531E+23
2851	7,352052E+22	7,351978E+22	5,220585E+22	5,220422E+22	1,470403E+23	1,044101E+23	2,514504E+23
2852	7,352158E+22	7,352353E+22	5,220565E+22	5,220568E+22	1,470451E+23	1,044113E+23	2,514564E+23
2853	7,352114E+22	7,352005E+22	5,220480E+22	5,220603E+22	1,470412E+23	1,044108E+23	2,514520E+23
2854	7,351987E+22	7,352079E+22	5,220588E+22	5,220505E+22	1,470407E+23	1,044109E+23	2,514516E+23
2855	7,352212E+22	7,352263E+22	5,220483E+22	5,220547E+22	1,470447E+23	1,044103E+23	2,514550E+23
2856	7,352140E+22	7,351909E+22	5,220403E+22	5,220399E+22	1,470405E+23	1,044080E+23	2,514485E+23
2857	7,352141E+22	7,352237E+22	5,220435E+22	5,220347E+22	1,470438E+23	1,044078E+23	2,514516E+23
2858	7,352249E+22	7,352240E+22	5,220301E+22	5,220373E+22	1,470449E+23	1,044067E+23	2,514516E+23
2859	7,352053E+22	7,352016E+22	5,220317E+22	5,220235E+22	1,470407E+23	1,044055E+23	2,514462E+23
2860	7,352105E+22	7,352393E+22	5,220325E+22	5,220278E+22	1,470450E+23	1,044060E+23	2,514510E+23
2861	7,352184E+22	7,352072E+22	5,220226E+22	5,220282E+22	1,470426E+23	1,044051E+23	2,514476E+23
2862	7,352062E+22	7,352006E+22	5,220341E+22	5,220194E+22	1,470407E+23	1,044053E+23	2,514460E+23
2863	7,352230E+22	7,352296E+22	5,220296E+22	5,220335E+22	1,470453E+23	1,044063E+23	2,514516E+23
2864	7,352160E+22	7,351964E+22	5,220224E+22	5,220335E+22	1,470412E+23	1,044056E+23	2,514468E+23
2865	7,352052E+22	7,352207E+22	5,220382E+22	5,220367E+22	1,470426E+23	1,044075E+23	2,514501E+23
2866	7,352199E+22	7,352268E+22	5,220391E+22	5,220502E+22	1,470447E+23	1,044089E+23	2,514536E+23
2867	7,352084E+22	7,351910E+22	5,220505E+22	5,220432E+22	1,470399E+23	1,044094E+23	2,514493E+23
2868	7,352076E+22	7,352265E+22	5,220655E+22	5,220528E+22	1,470434E+23	1,044118E+23	2,514552E+23
2869	7,352180E+22	7,352067E+22	5,220589E+22	5,220660E+22	1,470425E+23	1,044125E+23	2,514550E+23
2870	7,351969E+22	7,351928E+22	5,220715E+22	5,220623E+22	1,470390E+23	1,044134E+23	2,514523E+23
2871	7,352031E+22	7,352289E+22	5,220717E+22	5,220761E+22	1,470432E+23	1,044148E+23	2,514580E+23
2872	7,352061E+22	7,351930E+22	5,220605E+22	5,220714E+22	1,470399E+23	1,044132E+23	2,514531E+23
2873	7,351977E+22	7,352025E+22	5,220706E+22	5,220617E+22	1,470400E+23	1,044132E+23	2,514533E+23
2874	7,352186E+22	7,352186E+22	5,220618E+22	5,220666E+22	1,470437E+23	1,044128E+23	2,514566E+23
2875	7,352120E+22	7,351855E+22	5,220546E+22	5,220503E+22	1,470398E+23	1,044105E+23	2,514502E+23
2876	7,352018E+22	7,352245E+22	5,220581E+22	5,220467E+22	1,470426E+23	1,044105E+23	2,514531E+23
2877	7,352156E+22	7,352186E+22	5,220411E+22	5,220524E+22	1,470434E+23	1,044093E+23	2,514528E+23
2878	7,351998E+22	7,351928E+22	5,220461E+22	5,220372E+22	1,470393E+23	1,044083E+23	2,514476E+23
2879	7,352038E+22	7,352265E+22	5,220494E+22	5,220420E+22	1,470430E+23	1,044091E+23	2,514522E+23
2880	7,352155E+22	7,351977E+22	5,220346E+22	5,220405E+22	1,470413E+23	1,044075E+23	2,514488E+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							
2881	7,352021E+22	7,351994E+22	5,220435E+22	5,220366E+22	1,470402E+23	1,044080E+23	2,514482E+23
2882	7,352134E+22	7,352266E+22	5,220424E+22	5,220525E+22	1,470440E+23	1,044095E+23	2,514535E+23
2883	7,352099E+22	7,351929E+22	5,220405E+22	5,220482E+22	1,470403E+23	1,044089E+23	2,514491E+23
2884	7,351960E+22	7,352172E+22	5,220605E+22	5,220490E+22	1,470413E+23	1,044110E+23	2,514523E+23
2885	7,352166E+22	7,352160E+22	5,220582E+22	5,220661E+22	1,470433E+23	1,044124E+23	2,514557E+23
2886	7,352059E+22	7,351825E+22	5,220699E+22	5,220611E+22	1,470388E+23	1,044131E+23	2,514519E+23
2887	7,351970E+22	7,352177E+22	5,220835E+22	5,220739E+22	1,470415E+23	1,044157E+23	2,514572E+23
2888	7,352073E+22	7,352020E+22	5,220711E+22	5,220845E+22	1,470409E+23	1,044156E+23	2,514565E+23
2889	7,351896E+22	7,351903E+22	5,220816E+22	5,220803E+22	1,470380E+23	1,044162E+23	2,514542E+23
2890	7,351977E+22	7,352169E+22	5,220865E+22	5,220901E+22	1,470415E+23	1,044177E+23	2,514591E+23
2891	7,352084E+22	7,351829E+22	5,220768E+22	5,220793E+22	1,470391E+23	1,044156E+23	2,514547E+23
2892	7,351940E+22	7,351993E+22	5,220857E+22	5,220695E+22	1,470393E+23	1,044155E+23	2,514548E+23
2893	7,352133E+22	7,352148E+22	5,220719E+22	5,220798E+22	1,470428E+23	1,044152E+23	2,514580E+23
2894	7,352028E+22	7,351855E+22	5,220662E+22	5,220646E+22	1,470388E+23	1,044131E+23	2,514519E+23
2895	7,351865E+22	7,352191E+22	5,220740E+22	5,220621E+22	1,470406E+23	1,044136E+23	2,514542E+23
2896	7,352060E+22	7,352106E+22	5,220553E+22	5,220637E+22	1,470417E+23	1,044119E+23	2,514536E+23
2897	7,351964E+22	7,351855E+22	5,220582E+22	5,220521E+22	1,470382E+23	1,044110E+23	2,514492E+23
2898	7,351998E+22	7,352146E+22	5,220639E+22	5,220591E+22	1,470414E+23	1,044123E+23	2,514537E+23
2899	7,352140E+22	7,351913E+22	5,220484E+22	5,220561E+22	1,470405E+23	1,044105E+23	2,514510E+23
2900	7,351933E+22	7,351999E+22	5,220577E+22	5,220520E+22	1,470393E+23	1,044110E+23	2,514503E+23
2901	7,352085E+22	7,352210E+22	5,220560E+22	5,220692E+22	1,470429E+23	1,044125E+23	2,514555E+23
2902	7,352080E+22	7,351852E+22	5,220594E+22	5,220617E+22	1,470393E+23	1,044121E+23	2,514514E+23
2903	7,351896E+22	7,352071E+22	5,220825E+22	5,220639E+22	1,470397E+23	1,044146E+23	2,514543E+23
2904	7,352099E+22	7,352093E+22	5,220743E+22	5,220803E+22	1,470419E+23	1,044155E+23	2,514574E+23
2905	7,351963E+22	7,351806E+22	5,220826E+22	5,220816E+22	1,470377E+23	1,044164E+23	2,514541E+23
2906	7,351835E+22	7,352107E+22	5,220993E+22	5,220953E+22	1,470394E+23	1,044195E+23	2,514589E+23
2907	7,352002E+22	7,351937E+22	5,220882E+22	5,221000E+22	1,470394E+23	1,044188E+23	2,514582E+23
2908	7,351834E+22	7,351840E+22	5,220995E+22	5,220917E+22	1,470367E+23	1,044191E+23	2,514559E+23
2909	7,351986E+22	7,352061E+22	5,220999E+22	5,221032E+22	1,470405E+23	1,044203E+23	2,514608E+23
2910	7,352083E+22	7,351775E+22	5,220907E+22	5,220916E+22	1,470386E+23	1,044182E+23	2,514568E+23
2911	7,351842E+22	7,351965E+22	5,220998E+22	5,220844E+22	1,470381E+23	1,044184E+23	2,514565E+23
2912	7,352009E+22	7,352143E+22	5,220817E+22	5,220930E+22	1,470415E+23	1,044175E+23	2,514590E+23
2913	7,351933E+22	7,351837E+22	5,220769E+22	5,220801E+22	1,470377E+23	1,044157E+23	2,514534E+23
2914	7,351792E+22	7,352053E+22	5,220903E+22	5,220762E+22	1,470384E+23	1,044166E+23	2,514551E+23
2915	7,352059E+22	7,351980E+22	5,220712E+22	5,220746E+22	1,470404E+23	1,044146E+23	2,514550E+23
2916	7,351930E+22	7,351803E+22	5,220716E+22	5,220637E+22	1,470373E+23	1,044135E+23	2,514509E+23
2917	7,351968E+22	7,352079E+22	5,220732E+22	5,220761E+22	1,470405E+23	1,044149E+23	2,514554E+23
2918	7,352090E+22	7,351905E+22	5,220612E+22	5,220716E+22	1,470399E+23	1,044133E+23	2,514532E+23
2919	7,351834E+22	7,351953E+22	5,220755E+22	5,220666E+22	1,470379E+23	1,044142E+23	2,514521E+23
2920	7,352007E+22	7,352146E+22	5,220736E+22	5,220807E+22	1,470415E+23	1,044154E+23	2,514570E+23
2921	7,352035E+22	7,351810E+22	5,220760E+22	5,220781E+22	1,470384E+23	1,044154E+23	2,514539E+23
2922	7,351804E+22	7,351954E+22	5,221022E+22	5,220840E+22	1,470376E+23	1,044186E+23	2,514562E+23
2923	7,352011E+22	7,352027E+22	5,220921E+22	5,220999E+22	1,470404E+23	1,044192E+23	2,514596E+23
2924	7,351843E+22	7,351783E+22	5,220983E+22	5,221004E+22	1,470363E+23	1,044199E+23	2,514561E+23
2925	7,351787E+22	7,351991E+22	5,221131E+22	5,221141E+22	1,470378E+23	1,044227E+23	2,514605E+23
2926	7,352011E+22	7,351835E+22	5,221045E+22	5,221128E+22	1,470385E+23	1,044217E+23	2,514602E+23
2927	7,351809E+22	7,351750E+22	5,221159E+22	5,221039E+22	1,470356E+23	1,044220E+23	2,514576E+23
2928	7,351936E+22	7,352029E+22	5,221112E+22	5,221137E+22	1,470397E+23	1,044225E+23	2,514621E+23
2929	7,351997E+22	7,351810E+22	5,220999E+22	5,221068E+22	1,470381E+23	1,044207E+23	2,514588E+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	7,351699E+22	7,351919E+22	5,221150E+22	5,221006E+22	1,470362E+23	1,044216E+23	2,514577E+23
2931	7,351916E+22	7,352073E+22	5,220987E+22	5,221047E+22	1,470399E+23	1,044203E+23	2,514602E+23
2932	7,351860E+22	7,351760E+22	5,220942E+22	5,220911E+22	1,470362E+23	1,044185E+23	2,514547E+23
2933	7,351797E+22	7,351905E+22	5,221029E+22	5,220915E+22	1,470370E+23	1,044194E+23	2,514565E+23
2934	7,352070E+22	7,351885E+22	5,220834E+22	5,220893E+22	1,470396E+23	1,044173E+23	2,514568E+23
2935	7,351860E+22	7,351768E+22	5,220832E+22	5,220804E+22	1,470363E+23	1,044164E+23	2,514526E+23
2936	7,351887E+22	7,352077E+22	5,220815E+22	5,220892E+22	1,470396E+23	1,044171E+23	2,514567E+23
2937	7,352025E+22	7,351898E+22	5,220733E+22	5,220856E+22	1,470392E+23	1,044159E+23	2,514551E+23
2938	7,351765E+22	7,351844E+22	5,220966E+22	5,220804E+22	1,470361E+23	1,044177E+23	2,514538E+23
2939	7,351960E+22	7,352055E+22	5,220942E+22	5,220933E+22	1,470402E+23	1,044187E+23	2,514589E+23
2940	7,351935E+22	7,351773E+22	5,220952E+22	5,220949E+22	1,470371E+23	1,044190E+23	2,514561E+23
2941	7,351717E+22	7,351863E+22	5,221164E+22	5,221070E+22	1,470358E+23	1,044223E+23	2,514581E+23
2942	7,351929E+22	7,351956E+22	5,221083E+22	5,221199E+22	1,470388E+23	1,044228E+23	2,514617E+23
2943	7,351756E+22	7,351695E+22	5,221163E+22	5,221176E+22	1,470345E+23	1,044234E+23	2,514579E+23
2944	7,351756E+22	7,351903E+22	5,221270E+22	5,221262E+22	1,470366E+23	1,044253E+23	2,514619E+23
2945	7,352008E+22	7,351804E+22	5,221173E+22	5,221270E+22	1,470381E+23	1,044244E+23	2,514625E+23
2946	7,351751E+22	7,351681E+22	5,221325E+22	5,221195E+22	1,470343E+23	1,044252E+23	2,514595E+23
2947	7,351848E+22	7,352015E+22	5,221260E+22	5,221273E+22	1,470386E+23	1,044253E+23	2,514640E+23
2948	7,351873E+22	7,351819E+22	5,221150E+22	5,221204E+22	1,470369E+23	1,044235E+23	2,514605E+23
2949	7,351642E+22	7,351785E+22	5,221288E+22	5,221161E+22	1,470343E+23	1,044245E+23	2,514588E+23
2950	7,351909E+22	7,351944E+22	5,221145E+22	5,221162E+22	1,470385E+23	1,044231E+23	2,514616E+23
2951	7,351832E+22	7,351654E+22	5,221071E+22	5,221036E+22	1,470349E+23	1,044211E+23	2,514559E+23
2952	7,351753E+22	7,351848E+22	5,221095E+22	5,221038E+22	1,470360E+23	1,044213E+23	2,514573E+23
2953	7,352007E+22	7,351917E+22	5,220896E+22	5,221046E+22	1,470392E+23	1,044194E+23	2,514587E+23
2954	7,351752E+22	7,351726E+22	5,220977E+22	5,220951E+22	1,470348E+23	1,044193E+23	2,514541E+23
2955	7,351807E+22	7,352033E+22	5,221001E+22	5,220993E+22	1,470384E+23	1,044199E+23	2,514583E+23
2956	7,351952E+22	7,351861E+22	5,220942E+22	5,220970E+22	1,470381E+23	1,044191E+23	2,514573E+23
2957	7,351727E+22	7,351709E+22	5,221152E+22	5,220993E+22	1,470344E+23	1,044215E+23	2,514558E+23
2958	7,351904E+22	7,351961E+22	5,221129E+22	5,221131E+22	1,470386E+23	1,044226E+23	2,514612E+23
2959	7,351818E+22	7,351709E+22	5,221114E+22	5,221176E+22	1,470353E+23	1,044229E+23	2,514582E+23
2960	7,351628E+22	7,351794E+22	5,221277E+22	5,221261E+22	1,470342E+23	1,044254E+23	2,514596E+23
2961	7,351903E+22	7,351895E+22	5,221212E+22	5,221366E+22	1,470380E+23	1,044258E+23	2,514638E+23
2962	7,351741E+22	7,351577E+22	5,221351E+22	5,221311E+22	1,470332E+23	1,044266E+23	2,514598E+23
2963	7,351749E+22	7,351851E+22	5,221437E+22	5,221361E+22	1,470360E+23	1,044280E+23	2,514640E+23
2964	7,351930E+22	7,351824E+22	5,221337E+22	5,221394E+22	1,470375E+23	1,044273E+23	2,514648E+23
2965	7,351658E+22	7,351639E+22	5,221465E+22	5,221379E+22	1,470330E+23	1,044284E+23	2,514614E+23
2966	7,351745E+22	7,351956E+22	5,221425E+22	5,221420E+22	1,470370E+23	1,044284E+23	2,514655E+23
2967	7,351762E+22	7,351724E+22	5,221326E+22	5,221348E+22	1,470349E+23	1,044267E+23	2,514616E+23
2968	7,351599E+22	7,351670E+22	5,221392E+22	5,221276E+22	1,470327E+23	1,044267E+23	2,514594E+23
2969	7,351899E+22	7,351871E+22	5,221227E+22	5,221302E+22	1,470377E+23	1,044253E+23	2,514630E+23
2970	7,351782E+22	7,351578E+22	5,221189E+22	5,221187E+22	1,470336E+23	1,044238E+23	2,514574E+23
2971	7,351690E+22	7,351850E+22	5,221190E+22	5,221158E+22	1,470354E+23	1,044235E+23	2,514589E+23
2972	7,351916E+22	7,351941E+22	5,221036E+22	5,221158E+22	1,470386E+23	1,044219E+23	2,514605E+23
2973	7,351717E+22	7,351621E+22	5,221142E+22	5,221090E+22	1,470334E+23	1,044223E+23	2,514557E+23
2974	7,351782E+22	7,351920E+22	5,221205E+22	5,221106E+22	1,470370E+23	1,044231E+23	2,514601E+23
2975	7,351877E+22	7,351774E+22	5,221135E+22	5,221133E+22	1,470365E+23	1,044227E+23	2,514592E+23
2976	7,351638E+22	7,351636E+22	5,221272E+22	5,221179E+22	1,470327E+23	1,044245E+23	2,514573E+23
2977	7,351810E+22	7,351940E+22	5,221241E+22	5,221346E+22	1,470375E+23	1,044259E+23	2,514634E+23
2978	7,351719E+22	7,351621E+22	5,221290E+22	5,221371E+22	1,470334E+23	1,044266E+23	2,514600E+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	7,351584E+22	7,351722E+22	5,221453E+22	5,221391E+22	1,470331E+23	1,044284E+23	2,514615E+23
2980	7,351879E+22	7,351861E+22	5,221405E+22	5,221486E+22	1,470374E+23	1,044289E+23	2,514663E+23
2981	7,351736E+22	7,351475E+22	5,221522E+22	5,221482E+22	1,470321E+23	1,044300E+23	2,514622E+23
2982	7,351696E+22	7,351810E+22	5,221616E+22	5,221517E+22	1,470351E+23	1,044313E+23	2,514664E+23
2983	7,351798E+22	7,351814E+22	5,221491E+22	5,221571E+22	1,470361E+23	1,044306E+23	2,514667E+23
2984	7,351539E+22	7,351569E+22	5,221574E+22	5,221534E+22	1,470311E+23	1,044311E+23	2,514622E+23
2985	7,351686E+22	7,351874E+22	5,221545E+22	5,221558E+22	1,470356E+23	1,044310E+23	2,514666E+23
2986	7,351724E+22	7,351579E+22	5,221476E+22	5,221474E+22	1,470330E+23	1,044295E+23	2,514625E+23
2987	7,351582E+22	7,351601E+22	5,221496E+22	5,221375E+22	1,470318E+23	1,044287E+23	2,514605E+23
2988	7,351845E+22	7,351883E+22	5,221331E+22	5,221415E+22	1,470373E+23	1,044275E+23	2,514647E+23
2989	7,351721E+22	7,351539E+22	5,221293E+22	5,221339E+22	1,470326E+23	1,044263E+23	2,514589E+23
2990	7,351626E+22	7,351810E+22	5,221352E+22	5,221261E+22	1,470344E+23	1,044261E+23	2,514605E+23
2991	7,351829E+22	7,351880E+22	5,221228E+22	5,221275E+22	1,470371E+23	1,044250E+23	2,514621E+23
2992	7,351663E+22	7,351524E+22	5,221292E+22	5,221226E+22	1,470319E+23	1,044252E+23	2,514570E+23
2993	7,351734E+22	7,351852E+22	5,221346E+22	5,221287E+22	1,470359E+23	1,044263E+23	2,514622E+23
2994	7,351778E+22	7,351687E+22	5,221304E+22	5,221350E+22	1,470346E+23	1,044265E+23	2,514612E+23
2995	7,351549E+22	7,351607E+22	5,221398E+22	5,221364E+22	1,470316E+23	1,044276E+23	2,514592E+23
2996	7,351739E+22	7,351907E+22	5,221406E+22	5,221509E+22	1,470365E+23	1,044291E+23	2,514656E+23
2997	7,351717E+22	7,351500E+22	5,221467E+22	5,221535E+22	1,470322E+23	1,044300E+23	2,514622E+23
2998	7,351604E+22	7,351627E+22	5,221641E+22	5,221506E+22	1,470323E+23	1,044315E+23	2,514638E+23
2999	7,351815E+22	7,351819E+22	5,221590E+22	5,221635E+22	1,470363E+23	1,044322E+23	2,514686E+23