

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern 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	3,789680E+22	3,789514E+22	9,593851E+21	9,594622E+21	7,579194E+22	1,918847E+22	9,498042E+22
-2999	3,789404E+22	3,789578E+22	9,595075E+21	9,594445E+21	7,578982E+22	1,918952E+22	9,497934E+22
-2998	3,789461E+22	3,789500E+22	9,595204E+21	9,595671E+21	7,578961E+22	1,919088E+22	9,498049E+22
-2997	3,789466E+22	3,789347E+22	9,595236E+21	9,595431E+21	7,578813E+22	1,919067E+22	9,497880E+22
-2996	3,789230E+22	3,789350E+22	9,596502E+21	9,595738E+21	7,578580E+22	1,919224E+22	9,497804E+22
-2995	3,789360E+22	3,789235E+22	9,595985E+21	9,596788E+21	7,578595E+22	1,919277E+22	9,497872E+22
-2994	3,789233E+22	3,789218E+22	9,596347E+21	9,596256E+21	7,578451E+22	1,919260E+22	9,497711E+22
-2993	3,789147E+22	3,789257E+22	9,596908E+21	9,596799E+21	7,578404E+22	1,919371E+22	9,497774E+22
-2992	3,789336E+22	3,789166E+22	9,595996E+21	9,596893E+21	7,578502E+22	1,919289E+22	9,497791E+22
-2991	3,789160E+22	3,789254E+22	9,596684E+21	9,595913E+21	7,578414E+22	1,919260E+22	9,497674E+22
-2990	3,789256E+22	3,789305E+22	9,596477E+21	9,596432E+21	7,578561E+22	1,919291E+22	9,497852E+22
-2989	3,789380E+22	3,789263E+22	9,595561E+21	9,595824E+21	7,578643E+22	1,919138E+22	9,497781E+22
-2988	3,789194E+22	3,789383E+22	9,596084E+21	9,595312E+21	7,578577E+22	1,919140E+22	9,497717E+22
-2987	3,789398E+22	3,789378E+22	9,595164E+21	9,595887E+21	7,578776E+22	1,919105E+22	9,497881E+22
-2986	3,789428E+22	3,789390E+22	9,594799E+21	9,594843E+21	7,578818E+22	1,918964E+22	9,497782E+22
-2985	3,789384E+22	3,789478E+22	9,595257E+21	9,594778E+21	7,578862E+22	1,919003E+22	9,497866E+22
-2984	3,789613E+22	3,789423E+22	9,594301E+21	9,595084E+21	7,579036E+22	1,918938E+22	9,497974E+22
-2983	3,789446E+22	3,789478E+22	9,594860E+21	9,594391E+21	7,578924E+22	1,918925E+22	9,497849E+22
-2982	3,789414E+22	3,789525E+22	9,595287E+21	9,595249E+21	7,578939E+22	1,919054E+22	9,497993E+22
-2981	3,789516E+22	3,789403E+22	9,594763E+21	9,595471E+21	7,578918E+22	1,919023E+22	9,497942E+22
-2980	3,789262E+22	3,789394E+22	9,595957E+21	9,595300E+21	7,578656E+22	1,919126E+22	9,497782E+22
-2979	3,789335E+22	3,789316E+22	9,596066E+21	9,596436E+21	7,578651E+22	1,919250E+22	9,497901E+22
-2978	3,789327E+22	3,789201E+22	9,596075E+21	9,596300E+21	7,578528E+22	1,919237E+22	9,497766E+22
-2977	3,789110E+22	3,789218E+22	9,597161E+21	9,596605E+21	7,578328E+22	1,919377E+22	9,497705E+22
-2976	3,789241E+22	3,789128E+22	9,596608E+21	9,597595E+21	7,578369E+22	1,919420E+22	9,497789E+22
-2975	3,789096E+22	3,789096E+22	9,597096E+21	9,597031E+21	7,578192E+22	1,919413E+22	9,497605E+22
-2974	3,789024E+22	3,789164E+22	9,597681E+21	9,597373E+21	7,578189E+22	1,919505E+22	9,497694E+22
-2973	3,789229E+22	3,789071E+22	9,596830E+21	9,597457E+21	7,578300E+22	1,919429E+22	9,497729E+22
-2972	3,789048E+22	3,789114E+22	9,597377E+21	9,596574E+21	7,578162E+22	1,919395E+22	9,497557E+22
-2971	3,789123E+22	3,789183E+22	9,597052E+21	9,597102E+21	7,578306E+22	1,919415E+22	9,497721E+22
-2970	3,789246E+22	3,789162E+22	9,596098E+21	9,596564E+21	7,578409E+22	1,919266E+22	9,497675E+22
-2969	3,789112E+22	3,789262E+22	9,596502E+21	9,595897E+21	7,578375E+22	1,919240E+22	9,497614E+22
-2968	3,789342E+22	3,789273E+22	9,595631E+21	9,596312E+21	7,578615E+22	1,919194E+22	9,497809E+22
-2967	3,789353E+22	3,789272E+22	9,595437E+21	9,595329E+21	7,578625E+22	1,919077E+22	9,497702E+22
-2966	3,789278E+22	3,789408E+22	9,595943E+21	9,595302E+21	7,578685E+22	1,919124E+22	9,497810E+22
-2965	3,789479E+22	3,789358E+22	9,595079E+21	9,595813E+21	7,578837E+22	1,919089E+22	9,497926E+22
-2964	3,789298E+22	3,789344E+22	9,595614E+21	9,595286E+21	7,578642E+22	1,919090E+22	9,497732E+22
-2963	3,789262E+22	3,789379E+22	9,596087E+21	9,596067E+21	7,578642E+22	1,919215E+22	9,497857E+22
-2962	3,789375E+22	3,789258E+22	9,595630E+21	9,596304E+21	7,578632E+22	1,919193E+22	9,497826E+22
-2961	3,789163E+22	3,789225E+22	9,596736E+21	9,596089E+21	7,578388E+22	1,919282E+22	9,497670E+22
-2960	3,789223E+22	3,789174E+22	9,596809E+21	9,597230E+21	7,578397E+22	1,919404E+22	9,497801E+22
-2959	3,789167E+22	3,789058E+22	9,596881E+21	9,597246E+21	7,578224E+22	1,919413E+22	9,497637E+22
-2958	3,788950E+22	3,789115E+22	9,597941E+21	9,597459E+21	7,578065E+22	1,919540E+22	9,497605E+22
-2957	3,789105E+22	3,789022E+22	9,597465E+21	9,598369E+21	7,578127E+22	1,919583E+22	9,497711E+22
-2956	3,788986E+22	3,788942E+22	9,597884E+21	9,597727E+21	7,577927E+22	1,919561E+22	9,497488E+22
-2955	3,788924E+22	3,789028E+22	9,598417E+21	9,597922E+21	7,577952E+22	1,919634E+22	9,497586E+22
-2954	3,789105E+22	3,788972E+22	9,597504E+21	9,598079E+21	7,578077E+22	1,919558E+22	9,497635E+22
-2953	3,788945E+22	3,789010E+22	9,597853E+21	9,597230E+21	7,577955E+22	1,919508E+22	9,497463E+22
-2952	3,789021E+22	3,789087E+22	9,597483E+21	9,597673E+21	7,578108E+22	1,919516E+22	9,497623E+22

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	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2951	3,789127E+22	3,789050E+22	9,596665E+21	9,597160E+21	7,578177E+22	1,919382E+22	9,497559E+22
-2950	3,789023E+22	3,789177E+22	9,597098E+21	9,596352E+21	7,578199E+22	1,919345E+22	9,497544E+22
-2949	3,789264E+22	3,789182E+22	9,596355E+21	9,596832E+21	7,578447E+22	1,919319E+22	9,497765E+22
-2948	3,789252E+22	3,789146E+22	9,596098E+21	9,596031E+21	7,578398E+22	1,919213E+22	9,497610E+22
-2947	3,789144E+22	3,789294E+22	9,596595E+21	9,596046E+21	7,578438E+22	1,919264E+22	9,497702E+22
-2946	3,789326E+22	3,789254E+22	9,595801E+21	9,596649E+21	7,578580E+22	1,919245E+22	9,497825E+22
-2945	3,789188E+22	3,789203E+22	9,596285E+21	9,596072E+21	7,578390E+22	1,919236E+22	9,497626E+22
-2944	3,789160E+22	3,789236E+22	9,596813E+21	9,596722E+21	7,578396E+22	1,919353E+22	9,497750E+22
-2943	3,789244E+22	3,789103E+22	9,596501E+21	9,597090E+21	7,578347E+22	1,919359E+22	9,497706E+22
-2942	3,789019E+22	3,789109E+22	9,597564E+21	9,596880E+21	7,578128E+22	1,919444E+22	9,497573E+22
-2941	3,789074E+22	3,789063E+22	9,597689E+21	9,598153E+21	7,578138E+22	1,919584E+22	9,497722E+22
-2940	3,789019E+22	3,788902E+22	9,597696E+21	9,598211E+21	7,577921E+22	1,919591E+22	9,497512E+22
-2939	3,788814E+22	3,788971E+22	9,598754E+21	9,598226E+21	7,577785E+22	1,919698E+22	9,497483E+22
-2938	3,788987E+22	3,788900E+22	9,598326E+21	9,599056E+21	7,577886E+22	1,919738E+22	9,497625E+22
-2937	3,788901E+22	3,788802E+22	9,598588E+21	9,598346E+21	7,577703E+22	1,919693E+22	9,497397E+22
-2936	3,788810E+22	3,788920E+22	9,599022E+21	9,598502E+21	7,577730E+22	1,919752E+22	9,497482E+22
-2935	3,788948E+22	3,788861E+22	9,598129E+21	9,598816E+21	7,577810E+22	1,919695E+22	9,497504E+22
-2934	3,788801E+22	3,788919E+22	9,598422E+21	9,597857E+21	7,577719E+22	1,919628E+22	9,497347E+22
-2933	3,788917E+22	3,788989E+22	9,598131E+21	9,598258E+21	7,577906E+22	1,919639E+22	9,497545E+22
-2932	3,789048E+22	3,788907E+22	9,597267E+21	9,597724E+21	7,577955E+22	1,919499E+22	9,497454E+22
-2931	3,788948E+22	3,789061E+22	9,597678E+21	9,596858E+21	7,578009E+22	1,919454E+22	9,497462E+22
-2930	3,789163E+22	3,789105E+22	9,596963E+21	9,597457E+21	7,578268E+22	1,919442E+22	9,497710E+22
-2929	3,789158E+22	3,789051E+22	9,596598E+21	9,596752E+21	7,578208E+22	1,919335E+22	9,497543E+22
-2928	3,789033E+22	3,789198E+22	9,597164E+21	9,596701E+21	7,578231E+22	1,919387E+22	9,497617E+22
-2927	3,789183E+22	3,789130E+22	9,596578E+21	9,597379E+21	7,578313E+22	1,919396E+22	9,497709E+22
-2926	3,789062E+22	3,789083E+22	9,597136E+21	9,596731E+21	7,578145E+22	1,919387E+22	9,497532E+22
-2925	3,789041E+22	3,789101E+22	9,597769E+21	9,597501E+21	7,578143E+22	1,919527E+22	9,497670E+22
-2924	3,789095E+22	3,788934E+22	9,597364E+21	9,598066E+21	7,578028E+22	1,919543E+22	9,497571E+22
-2923	3,788863E+22	3,788958E+22	9,598353E+21	9,597846E+21	7,577821E+22	1,919620E+22	9,497441E+22
-2922	3,788920E+22	3,788930E+22	9,598514E+21	9,599066E+21	7,577850E+22	1,919758E+22	9,497608E+22
-2921	3,788917E+22	3,788755E+22	9,598429E+21	9,598993E+21	7,577671E+22	1,919742E+22	9,497413E+22
-2920	3,788722E+22	3,788839E+22	9,599491E+21	9,598786E+21	7,577561E+22	1,919828E+22	9,497388E+22
-2919	3,788849E+22	3,788776E+22	9,599155E+21	9,599707E+21	7,577625E+22	1,919886E+22	9,497511E+22
-2918	3,788750E+22	3,788720E+22	9,599310E+21	9,599002E+21	7,577470E+22	1,919831E+22	9,497302E+22
-2917	3,788663E+22	3,788826E+22	9,599729E+21	9,599258E+21	7,577489E+22	1,919899E+22	9,497388E+22
-2916	3,788807E+22	3,788720E+22	9,598734E+21	9,599602E+21	7,577527E+22	1,919834E+22	9,497360E+22
-2915	3,788699E+22	3,788785E+22	9,598976E+21	9,598457E+21	7,577484E+22	1,919743E+22	9,497227E+22
-2914	3,788843E+22	3,788876E+22	9,598744E+21	9,598788E+21	7,577720E+22	1,919753E+22	9,497473E+22
-2913	3,789004E+22	3,788794E+22	9,597767E+21	9,598267E+21	7,577799E+22	1,919603E+22	9,497402E+22
-2912	3,788867E+22	3,788979E+22	9,598151E+21	9,597380E+21	7,577846E+22	1,919553E+22	9,497400E+22
-2911	3,789021E+22	3,789023E+22	9,597590E+21	9,598143E+21	7,578044E+22	1,919573E+22	9,497617E+22
-2910	3,789017E+22	3,788972E+22	9,597280E+21	9,597383E+21	7,577989E+22	1,919466E+22	9,497455E+22
-2909	3,788911E+22	3,789088E+22	9,598010E+21	9,597374E+21	7,577999E+22	1,919538E+22	9,497538E+22
-2908	3,789059E+22	3,788964E+22	9,597429E+21	9,598133E+21	7,578022E+22	1,919556E+22	9,497579E+22
-2907	3,788935E+22	3,788926E+22	9,597954E+21	9,597509E+21	7,577860E+22	1,919546E+22	9,497407E+22
-2906	3,788900E+22	3,788973E+22	9,598592E+21	9,598411E+21	7,577872E+22	1,919700E+22	9,497573E+22
-2905	3,788973E+22	3,788788E+22	9,598049E+21	9,599023E+21	7,577761E+22	1,919707E+22	9,497468E+22
-2904	3,788736E+22	3,788829E+22	9,599051E+21	9,598642E+21	7,577565E+22	1,919769E+22	9,497334E+22
-2903	3,788775E+22	3,788803E+22	9,599387E+21	9,599844E+21	7,577577E+22	1,919923E+22	9,497500E+22

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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	3,788787E+22	3,788643E+22	9,599332E+21	9,599633E+21	7,577430E+22	1,919897E+22	9,497327E+22
-2901	3,788591E+22	3,788725E+22	9,600425E+21	9,599524E+21	7,577316E+22	1,919995E+22	9,497311E+22
-2900	3,788679E+22	3,788628E+22	9,599936E+21	9,600575E+21	7,577307E+22	1,920051E+22	9,497358E+22
-2899	3,788589E+22	3,788579E+22	9,599959E+21	9,599833E+21	7,577168E+22	1,919979E+22	9,497147E+22
-2898	3,788534E+22	3,788697E+22	9,600352E+21	9,599995E+21	7,577231E+22	1,920035E+22	9,497266E+22
-2897	3,788744E+22	3,788580E+22	9,599217E+21	9,600194E+21	7,577325E+22	1,919941E+22	9,497266E+22
-2896	3,788659E+22	3,788678E+22	9,599427E+21	9,598838E+21	7,577337E+22	1,919827E+22	9,497163E+22
-2895	3,788759E+22	3,788797E+22	9,599315E+21	9,599264E+21	7,577556E+22	1,919858E+22	9,497414E+22
-2894	3,788896E+22	3,788755E+22	9,598340E+21	9,598762E+21	7,577651E+22	1,919710E+22	9,497361E+22
-2893	3,788747E+22	3,788919E+22	9,598834E+21	9,598032E+21	7,577667E+22	1,919687E+22	9,497353E+22
-2892	3,788868E+22	3,788902E+22	9,598308E+21	9,598872E+21	7,577770E+22	1,919718E+22	9,497488E+22
-2891	3,788890E+22	3,788834E+22	9,598037E+21	9,598085E+21	7,577724E+22	1,919612E+22	9,497336E+22
-2890	3,788799E+22	3,788937E+22	9,598841E+21	9,598102E+21	7,577736E+22	1,919694E+22	9,497430E+22
-2889	3,788961E+22	3,788801E+22	9,598128E+21	9,598982E+21	7,577763E+22	1,919711E+22	9,497474E+22
-2888	3,788816E+22	3,788789E+22	9,598574E+21	9,598344E+21	7,577605E+22	1,919692E+22	9,497297E+22
-2887	3,788736E+22	3,788845E+22	9,599342E+21	9,599341E+21	7,577580E+22	1,919868E+22	9,497449E+22
-2886	3,788826E+22	3,788683E+22	9,598870E+21	9,599806E+21	7,577509E+22	1,919868E+22	9,497377E+22
-2885	3,788615E+22	3,788708E+22	9,600010E+21	9,599397E+21	7,577324E+22	1,919941E+22	9,497264E+22
-2884	3,788630E+22	3,788644E+22	9,600340E+21	9,600611E+21	7,577274E+22	1,920095E+22	9,497369E+22
-2883	3,788639E+22	3,788501E+22	9,600195E+21	9,600425E+21	7,577140E+22	1,920062E+22	9,497202E+22
-2882	3,788433E+22	3,788596E+22	9,601215E+21	9,600389E+21	7,577029E+22	1,920160E+22	9,497190E+22
-2881	3,788552E+22	3,788482E+22	9,600517E+21	9,601436E+21	7,577034E+22	1,920195E+22	9,497230E+22
-2880	3,788486E+22	3,788449E+22	9,600462E+21	9,600462E+21	7,576935E+22	1,920092E+22	9,497027E+22
-2879	3,788437E+22	3,788583E+22	9,600969E+21	9,600556E+21	7,577020E+22	1,920153E+22	9,497172E+22
-2878	3,788673E+22	3,788501E+22	9,599866E+21	9,600597E+21	7,577174E+22	1,920046E+22	9,497221E+22
-2877	3,788580E+22	3,788612E+22	9,600116E+21	9,599375E+21	7,577192E+22	1,919949E+22	9,497141E+22
-2876	3,788619E+22	3,788704E+22	9,599948E+21	9,599938E+21	7,577324E+22	1,919989E+22	9,497312E+22
-2875	3,788748E+22	3,788654E+22	9,598951E+21	9,599452E+21	7,577401E+22	1,919840E+22	9,497242E+22
-2874	3,788617E+22	3,788801E+22	9,599529E+21	9,598737E+21	7,577419E+22	1,919827E+22	9,497245E+22
-2873	3,788779E+22	3,788746E+22	9,598919E+21	9,599541E+21	7,577525E+22	1,919846E+22	9,497371E+22
-2872	3,788806E+22	3,788689E+22	9,598633E+21	9,598680E+21	7,577496E+22	1,919731E+22	9,497227E+22
-2871	3,788680E+22	3,788815E+22	9,599525E+21	9,598869E+21	7,577495E+22	1,919839E+22	9,497334E+22
-2870	3,788830E+22	3,788709E+22	9,598830E+21	9,599750E+21	7,577540E+22	1,919858E+22	9,497398E+22
-2869	3,788688E+22	3,788690E+22	9,599374E+21	9,599219E+21	7,577378E+22	1,919859E+22	9,497237E+22
-2868	3,788577E+22	3,788703E+22	9,600208E+21	9,600196E+21	7,577280E+22	1,920040E+22	9,497321E+22
-2867	3,788686E+22	3,788538E+22	9,599810E+21	9,600585E+21	7,577224E+22	1,920040E+22	9,497263E+22
-2866	3,788486E+22	3,788558E+22	9,601021E+21	9,600211E+21	7,577044E+22	1,920123E+22	9,497167E+22
-2865	3,788496E+22	3,788483E+22	9,601148E+21	9,601497E+21	7,576979E+22	1,920265E+22	9,497244E+22
-2864	3,788492E+22	3,788359E+22	9,600853E+21	9,601264E+21	7,576851E+22	1,920212E+22	9,497062E+22
-2863	3,788273E+22	3,788460E+22	9,601883E+21	9,601236E+21	7,576732E+22	1,920312E+22	9,497044E+22
-2862	3,788433E+22	3,788373E+22	9,601181E+21	9,602051E+21	7,576806E+22	1,920323E+22	9,497129E+22
-2861	3,788414E+22	3,788346E+22	9,601166E+21	9,601012E+21	7,576760E+22	1,920218E+22	9,496978E+22
-2860	3,788337E+22	3,788467E+22	9,601648E+21	9,601093E+21	7,576804E+22	1,920274E+22	9,497078E+22
-2859	3,788565E+22	3,788418E+22	9,600504E+21	9,601171E+21	7,576983E+22	1,920167E+22	9,497151E+22
-2858	3,788458E+22	3,788528E+22	9,600742E+21	9,600047E+21	7,576986E+22	1,920079E+22	9,497065E+22
-2857	3,788500E+22	3,788590E+22	9,600447E+21	9,600635E+21	7,577091E+22	1,920108E+22	9,497199E+22
-2856	3,788645E+22	3,788534E+22	9,599438E+21	9,600025E+21	7,577179E+22	1,919946E+22	9,497125E+22
-2855	3,788512E+22	3,788670E+22	9,600166E+21	9,599350E+21	7,577181E+22	1,919952E+22	9,497133E+22
-2854	3,788689E+22	3,788637E+22	9,599621E+21	9,600102E+21	7,577325E+22	1,919972E+22	9,497298E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2853	3,788709E+22	3,788585E+22	9,599373E+21	9,599435E+21	7,577295E+22	1,919881E+22	9,497176E+22
-2852	3,788523E+22	3,788685E+22	9,600251E+21	9,599749E+21	7,577208E+22	1,920000E+22	9,497208E+22
-2851	3,788678E+22	3,788583E+22	9,599623E+21	9,600611E+21	7,577260E+22	1,920023E+22	9,497284E+22
-2850	3,788555E+22	3,788551E+22	9,600291E+21	9,600060E+21	7,577106E+22	1,920035E+22	9,497141E+22
-2849	3,788466E+22	3,788540E+22	9,601066E+21	9,600980E+21	7,577006E+22	1,920205E+22	9,497210E+22
-2848	3,788569E+22	3,788388E+22	9,600635E+21	9,601303E+21	7,576957E+22	1,920194E+22	9,497151E+22
-2847	3,788328E+22	3,788426E+22	9,601874E+21	9,601092E+21	7,576754E+22	1,920297E+22	9,497050E+22
-2846	3,788335E+22	3,788373E+22	9,601933E+21	9,602312E+21	7,576708E+22	1,920425E+22	9,497132E+22
-2845	3,788352E+22	3,788244E+22	9,601626E+21	9,602126E+21	7,576596E+22	1,920375E+22	9,496971E+22
-2844	3,788129E+22	3,788314E+22	9,602614E+21	9,602003E+21	7,576444E+22	1,920462E+22	9,496906E+22
-2843	3,788328E+22	3,788240E+22	9,601928E+21	9,602656E+21	7,576568E+22	1,920458E+22	9,497026E+22
-2842	3,788328E+22	3,788232E+22	9,601924E+21	9,601633E+21	7,576560E+22	1,920356E+22	9,496916E+22
-2841	3,788243E+22	3,788351E+22	9,602194E+21	9,601748E+21	7,576594E+22	1,920394E+22	9,496988E+22
-2840	3,788446E+22	3,788320E+22	9,600957E+21	9,601761E+21	7,576765E+22	1,920272E+22	9,497037E+22
-2839	3,788326E+22	3,788429E+22	9,601269E+21	9,600701E+21	7,576755E+22	1,920197E+22	9,496952E+22
-2838	3,788395E+22	3,788494E+22	9,601031E+21	9,601101E+21	7,576889E+22	1,920213E+22	9,497102E+22
-2837	3,788572E+22	3,788430E+22	9,600104E+21	9,600556E+21	7,577001E+22	1,920066E+22	9,497067E+22
-2836	3,788403E+22	3,788539E+22	9,600835E+21	9,599977E+21	7,576942E+22	1,920081E+22	9,497023E+22
-2835	3,788568E+22	3,788527E+22	9,600322E+21	9,600823E+21	7,577095E+22	1,920114E+22	9,497210E+22
-2834	3,788583E+22	3,788477E+22	9,600130E+21	9,600297E+21	7,577061E+22	1,920043E+22	9,497103E+22
-2833	3,788398E+22	3,788548E+22	9,600937E+21	9,600611E+21	7,576946E+22	1,920155E+22	9,497101E+22
-2832	3,788558E+22	3,788446E+22	9,600377E+21	9,601332E+21	7,577005E+22	1,920171E+22	9,497176E+22
-2831	3,788427E+22	3,788409E+22	9,601203E+21	9,600849E+21	7,576837E+22	1,920205E+22	9,497042E+22
-2830	3,788332E+22	3,788416E+22	9,602009E+21	9,601717E+21	7,576748E+22	1,920373E+22	9,497121E+22
-2829	3,788422E+22	3,788267E+22	9,601538E+21	9,602238E+21	7,576690E+22	1,920378E+22	9,497067E+22
-2828	3,788130E+22	3,788267E+22	9,602690E+21	9,602083E+21	7,576397E+22	1,920477E+22	9,496874E+22
-2827	3,788169E+22	3,788221E+22	9,602740E+21	9,603194E+21	7,576389E+22	1,920593E+22	9,496982E+22
-2826	3,788235E+22	3,788090E+22	9,602445E+21	9,602896E+21	7,576325E+22	1,920534E+22	9,496859E+22
-2825	3,788045E+22	3,788159E+22	9,603266E+21	9,602651E+21	7,576204E+22	1,920592E+22	9,496796E+22
-2824	3,788249E+22	3,788124E+22	9,602513E+21	9,603181E+21	7,576373E+22	1,920569E+22	9,496943E+22
-2823	3,788213E+22	3,788149E+22	9,602506E+21	9,602263E+21	7,576362E+22	1,920477E+22	9,496839E+22
-2822	3,788122E+22	3,788288E+22	9,602749E+21	9,602273E+21	7,576410E+22	1,920502E+22	9,496913E+22
-2821	3,788336E+22	3,788244E+22	9,601549E+21	9,602341E+21	7,576580E+22	1,920389E+22	9,496969E+22
-2820	3,788195E+22	3,788304E+22	9,601907E+21	9,601278E+21	7,576499E+22	1,920319E+22	9,496817E+22
-2819	3,788293E+22	3,788368E+22	9,601756E+21	9,601642E+21	7,576662E+22	1,920340E+22	9,497002E+22
-2818	3,788479E+22	3,788307E+22	9,600873E+21	9,601252E+21	7,576786E+22	1,920213E+22	9,496999E+22
-2817	3,788296E+22	3,788409E+22	9,601411E+21	9,600794E+21	7,576705E+22	1,920221E+22	9,496925E+22
-2816	3,788446E+22	3,788406E+22	9,600886E+21	9,601584E+21	7,576853E+22	1,920247E+22	9,497100E+22
-2815	3,788451E+22	3,788361E+22	9,600832E+21	9,601114E+21	7,576813E+22	1,920195E+22	9,497007E+22
-2814	3,788286E+22	3,788436E+22	9,601754E+21	9,601236E+21	7,576722E+22	1,920299E+22	9,497021E+22
-2813	3,788451E+22	3,788331E+22	9,601298E+21	9,602042E+21	7,576782E+22	1,920334E+22	9,497116E+22
-2812	3,788267E+22	3,788265E+22	9,602138E+21	9,601710E+21	7,576532E+22	1,920385E+22	9,496916E+22
-2811	3,788155E+22	3,788277E+22	9,602920E+21	9,602624E+21	7,576432E+22	1,920554E+22	9,496987E+22
-2810	3,788253E+22	3,788121E+22	9,602432E+21	9,603250E+21	7,576374E+22	1,920568E+22	9,496942E+22
-2809	3,787991E+22	3,788091E+22	9,603383E+21	9,603016E+21	7,576082E+22	1,920640E+22	9,496722E+22
-2808	3,788060E+22	3,788057E+22	9,603421E+21	9,603875E+21	7,576117E+22	1,920730E+22	9,496847E+22
-2807	3,788141E+22	3,787960E+22	9,603196E+21	9,603559E+21	7,576101E+22	1,920676E+22	9,496777E+22
-2806	3,787956E+22	3,788067E+22	9,603976E+21	9,603181E+21	7,576023E+22	1,920716E+22	9,496739E+22
-2805	3,788137E+22	3,788057E+22	9,603176E+21	9,603824E+21	7,576193E+22	1,920700E+22	9,496893E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2804	3,788049E+22	3,788047E+22	9,603131E+21	9,602958E+21	7,576096E+22	1,920609E+22	9,496705E+22
-2803	3,787977E+22	3,788180E+22	9,603411E+21	9,602870E+21	7,576157E+22	1,920628E+22	9,496785E+22
-2802	3,788229E+22	3,788122E+22	9,602266E+21	9,602943E+21	7,576351E+22	1,920521E+22	9,496872E+22
-2801	3,788114E+22	3,788156E+22	9,602466E+21	9,601889E+21	7,576271E+22	1,920436E+22	9,496706E+22
-2800	3,788214E+22	3,788244E+22	9,602289E+21	9,602230E+21	7,576458E+22	1,920452E+22	9,496910E+22
-2799	3,788371E+22	3,788214E+22	9,601442E+21	9,602003E+21	7,576585E+22	1,920345E+22	9,496929E+22
-2798	3,788188E+22	3,788329E+22	9,602001E+21	9,601466E+21	7,576518E+22	1,920347E+22	9,496864E+22
-2797	3,788341E+22	3,788323E+22	9,601589E+21	9,602288E+21	7,576664E+22	1,920388E+22	9,497052E+22
-2796	3,788307E+22	3,788228E+22	9,601673E+21	9,601832E+21	7,576535E+22	1,920350E+22	9,496885E+22
-2795	3,788150E+22	3,788297E+22	9,602745E+21	9,601958E+21	7,576447E+22	1,920470E+22	9,496917E+22
-2794	3,788304E+22	3,788184E+22	9,602321E+21	9,602949E+21	7,576488E+22	1,920527E+22	9,497015E+22
-2793	3,788096E+22	3,788091E+22	9,602938E+21	9,602747E+21	7,576187E+22	1,920568E+22	9,496755E+22
-2792	3,787995E+22	3,788103E+22	9,603650E+21	9,603559E+21	7,576098E+22	1,920721E+22	9,496819E+22
-2791	3,788109E+22	3,787963E+22	9,603207E+21	9,604138E+21	7,576071E+22	1,920734E+22	9,496806E+22
-2790	3,787895E+22	3,787958E+22	9,604141E+21	9,603643E+21	7,575853E+22	1,920778E+22	9,496631E+22
-2789	3,787980E+22	3,787954E+22	9,604203E+21	9,604483E+21	7,575934E+22	1,920869E+22	9,496802E+22
-2788	3,788001E+22	3,787856E+22	9,603976E+21	9,604241E+21	7,575857E+22	1,920822E+22	9,496679E+22
-2787	3,787805E+22	3,787983E+22	9,604740E+21	9,603864E+21	7,575788E+22	1,920860E+22	9,496648E+22
-2786	3,787986E+22	3,787960E+22	9,603933E+21	9,604571E+21	7,575946E+22	1,920850E+22	9,496797E+22
-2785	3,787917E+22	3,787909E+22	9,603699E+21	9,603676E+21	7,575827E+22	1,920738E+22	9,496564E+22
-2784	3,787883E+22	3,788031E+22	9,603959E+21	9,603409E+21	7,575914E+22	1,920737E+22	9,496651E+22
-2783	3,788147E+22	3,788000E+22	9,602871E+21	9,603553E+21	7,576147E+22	1,920642E+22	9,496790E+22
-2782	3,788045E+22	3,788063E+22	9,603000E+21	9,602456E+21	7,576108E+22	1,920546E+22	9,496654E+22
-2781	3,788121E+22	3,788172E+22	9,602819E+21	9,602901E+21	7,576293E+22	1,920572E+22	9,496865E+22
-2780	3,788228E+22	3,788115E+22	9,602070E+21	9,602731E+21	7,576343E+22	1,920480E+22	9,496823E+22
-2779	3,788059E+22	3,788220E+22	9,602776E+21	9,602090E+21	7,576279E+22	1,920487E+22	9,496766E+22
-2778	3,788221E+22	3,788199E+22	9,602519E+21	9,602955E+21	7,576419E+22	1,920547E+22	9,496967E+22
-2777	3,788186E+22	3,788070E+22	9,602489E+21	9,602623E+21	7,576256E+22	1,920511E+22	9,496767E+22
-2776	3,788010E+22	3,788139E+22	9,603539E+21	9,602782E+21	7,576149E+22	1,920632E+22	9,496781E+22
-2775	3,788139E+22	3,788049E+22	9,603120E+21	9,603937E+21	7,576188E+22	1,920706E+22	9,496894E+22
-2774	3,787957E+22	3,787953E+22	9,603681E+21	9,603625E+21	7,575910E+22	1,920731E+22	9,496640E+22
-2773	3,787875E+22	3,787973E+22	9,604418E+21	9,604373E+21	7,575848E+22	1,920879E+22	9,496727E+22
-2772	3,787970E+22	3,787815E+22	9,604084E+21	9,604900E+21	7,575785E+22	1,920898E+22	9,496684E+22
-2771	3,787773E+22	3,787834E+22	9,605084E+21	9,604340E+21	7,575607E+22	1,920942E+22	9,496549E+22
-2770	3,787844E+22	3,787848E+22	9,605130E+21	9,605294E+21	7,575692E+22	1,921042E+22	9,496734E+22
-2769	3,787841E+22	3,787728E+22	9,604648E+21	9,605118E+21	7,575569E+22	1,920977E+22	9,496545E+22
-2768	3,787660E+22	3,787842E+22	9,605338E+21	9,604597E+21	7,575502E+22	1,920993E+22	9,496495E+22
-2767	3,787860E+22	3,787831E+22	9,604543E+21	9,605229E+21	7,575691E+22	1,920977E+22	9,496669E+22
-2766	3,787845E+22	3,787788E+22	9,604251E+21	9,604151E+21	7,575634E+22	1,920840E+22	9,496474E+22
-2765	3,787830E+22	3,787937E+22	9,604491E+21	9,603910E+21	7,575767E+22	1,920840E+22	9,496607E+22
-2764	3,788034E+22	3,787905E+22	9,603449E+21	9,604148E+21	7,575939E+22	1,920760E+22	9,496699E+22
-2763	3,787928E+22	3,787990E+22	9,603624E+21	9,603076E+21	7,575917E+22	1,920670E+22	9,496587E+22
-2762	3,788002E+22	3,788087E+22	9,603537E+21	9,603588E+21	7,576089E+22	1,920712E+22	9,496802E+22
-2761	3,788100E+22	3,787985E+22	9,602734E+21	9,603431E+21	7,576086E+22	1,920616E+22	9,496702E+22
-2760	3,787952E+22	3,788069E+22	9,603541E+21	9,602726E+21	7,576021E+22	1,920627E+22	9,496647E+22
-2759	3,788095E+22	3,788062E+22	9,603383E+21	9,603721E+21	7,576156E+22	1,920710E+22	9,496867E+22
-2758	3,788057E+22	3,787941E+22	9,603272E+21	9,603468E+21	7,575998E+22	1,920674E+22	9,496672E+22
-2757	3,787867E+22	3,788014E+22	9,604266E+21	9,603728E+21	7,575880E+22	1,920799E+22	9,496680E+22
-2756	3,787956E+22	3,787895E+22	9,603936E+21	9,604897E+21	7,575851E+22	1,920883E+22	9,496734E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2755	3,787814E+22	3,787807E+22	9,604581E+21	9,604431E+21	7,575621E+22	1,920901E+22	9,496523E+22
-2754	3,787759E+22	3,787834E+22	9,605394E+21	9,605157E+21	7,575592E+22	1,921055E+22	9,496647E+22
-2753	3,787845E+22	3,787668E+22	9,604925E+21	9,605724E+21	7,575513E+22	1,921065E+22	9,496578E+22
-2752	3,787642E+22	3,787699E+22	9,605850E+21	9,605125E+21	7,575341E+22	1,921097E+22	9,496438E+22
-2751	3,787688E+22	3,787742E+22	9,605858E+21	9,606120E+21	7,575430E+22	1,921198E+22	9,496628E+22
-2750	3,787718E+22	3,787617E+22	9,605255E+21	9,605815E+21	7,575335E+22	1,921107E+22	9,496442E+22
-2749	3,787558E+22	3,787728E+22	9,605901E+21	9,605176E+21	7,575286E+22	1,921108E+22	9,496394E+22
-2748	3,787745E+22	3,787701E+22	9,605208E+21	9,605773E+21	7,575446E+22	1,921098E+22	9,496544E+22
-2747	3,787757E+22	3,787680E+22	9,604946E+21	9,604663E+21	7,575436E+22	1,920961E+22	9,496397E+22
-2746	3,787726E+22	3,787850E+22	9,605168E+21	9,604572E+21	7,575576E+22	1,920974E+22	9,496550E+22
-2745	3,787906E+22	3,787798E+22	9,603977E+21	9,604893E+21	7,575705E+22	1,920887E+22	9,496592E+22
-2744	3,787815E+22	3,787864E+22	9,604177E+21	9,603721E+21	7,575680E+22	1,920790E+22	9,496470E+22
-2743	3,787889E+22	3,787977E+22	9,604210E+21	9,604196E+21	7,575866E+22	1,920841E+22	9,496706E+22
-2742	3,788018E+22	3,787867E+22	9,603419E+21	9,603997E+21	7,575885E+22	1,920742E+22	9,496626E+22
-2741	3,787856E+22	3,787956E+22	9,604253E+21	9,603418E+21	7,575812E+22	1,920767E+22	9,496579E+22
-2740	3,787926E+22	3,787938E+22	9,604188E+21	9,604585E+21	7,575864E+22	1,920877E+22	9,496741E+22
-2739	3,787892E+22	3,787819E+22	9,604121E+21	9,604383E+21	7,575711E+22	1,920850E+22	9,496561E+22
-2738	3,787716E+22	3,787878E+22	9,605156E+21	9,604689E+21	7,575594E+22	1,920985E+22	9,496578E+22
-2737	3,787813E+22	3,787722E+22	9,604759E+21	9,605798E+21	7,575535E+22	1,921056E+22	9,496591E+22
-2736	3,787708E+22	3,787631E+22	9,605454E+21	9,605217E+21	7,575340E+22	1,921067E+22	9,496407E+22
-2735	3,787636E+22	3,787701E+22	9,606302E+21	9,605970E+21	7,575337E+22	1,921227E+22	9,496564E+22
-2734	3,787716E+22	3,787554E+22	9,605703E+21	9,606541E+21	7,575270E+22	1,921224E+22	9,496494E+22
-2733	3,787503E+22	3,787593E+22	9,606533E+21	9,605941E+21	7,575096E+22	1,921247E+22	9,496343E+22
-2732	3,787511E+22	3,787607E+22	9,606599E+21	9,606837E+21	7,575118E+22	1,921344E+22	9,496461E+22
-2731	3,787586E+22	3,787490E+22	9,606024E+21	9,606383E+21	7,575076E+22	1,921241E+22	9,496316E+22
-2730	3,787466E+22	3,787604E+22	9,606651E+21	9,605762E+21	7,575069E+22	1,921241E+22	9,496311E+22
-2729	3,787638E+22	3,787570E+22	9,605809E+21	9,606416E+21	7,575208E+22	1,921222E+22	9,496431E+22
-2728	3,787660E+22	3,787568E+22	9,605473E+21	9,605314E+21	7,575228E+22	1,921079E+22	9,496306E+22
-2727	3,787614E+22	3,787768E+22	9,605704E+21	9,605244E+21	7,575382E+22	1,921095E+22	9,496477E+22
-2726	3,787815E+22	3,787712E+22	9,604487E+21	9,605475E+21	7,575527E+22	1,920996E+22	9,496523E+22
-2725	3,787735E+22	3,787769E+22	9,604738E+21	9,604264E+21	7,575504E+22	1,920900E+22	9,496405E+22
-2724	3,787762E+22	3,787855E+22	9,604984E+21	9,604782E+21	7,575616E+22	1,920977E+22	9,496593E+22
-2723	3,787892E+22	3,787756E+22	9,604280E+21	9,604697E+21	7,575648E+22	1,920898E+22	9,496545E+22
-2722	3,787710E+22	3,787837E+22	9,605102E+21	9,604345E+21	7,575547E+22	1,920945E+22	9,496492E+22
-2721	3,787755E+22	3,787778E+22	9,604935E+21	9,605589E+21	7,575533E+22	1,921052E+22	9,496586E+22
-2720	3,787759E+22	3,787639E+22	9,604886E+21	9,605273E+21	7,575398E+22	1,921016E+22	9,496414E+22
-2719	3,787598E+22	3,787726E+22	9,605992E+21	9,605487E+21	7,575324E+22	1,921148E+22	9,496471E+22
-2718	3,787728E+22	3,787584E+22	9,605580E+21	9,606524E+21	7,575312E+22	1,921210E+22	9,496523E+22
-2717	3,787603E+22	3,787518E+22	9,606243E+21	9,605972E+21	7,575121E+22	1,921222E+22	9,496343E+22
-2716	3,787455E+22	3,787591E+22	9,607177E+21	9,606797E+21	7,575046E+22	1,921397E+22	9,496443E+22
-2715	3,787544E+22	3,787445E+22	9,606583E+21	9,607342E+21	7,574989E+22	1,921392E+22	9,496382E+22
-2714	3,787344E+22	3,787464E+22	9,607386E+21	9,606756E+21	7,574808E+22	1,921414E+22	9,496222E+22
-2713	3,787365E+22	3,787440E+22	9,607328E+21	9,607568E+21	7,574805E+22	1,921490E+22	9,496295E+22
-2712	3,787492E+22	3,787320E+22	9,606713E+21	9,607026E+21	7,574812E+22	1,921374E+22	9,496186E+22
-2711	3,787370E+22	3,787489E+22	9,607268E+21	9,606439E+21	7,574859E+22	1,921371E+22	9,496229E+22
-2710	3,787552E+22	3,787479E+22	9,606282E+21	9,607090E+21	7,575030E+22	1,921337E+22	9,496367E+22
-2709	3,787569E+22	3,787488E+22	9,605890E+21	9,605938E+21	7,575058E+22	1,921183E+22	9,496241E+22
-2708	3,787485E+22	3,787672E+22	9,606303E+21	9,605778E+21	7,575157E+22	1,921208E+22	9,496365E+22
-2707	3,787711E+22	3,787618E+22	9,605227E+21	9,605921E+21	7,575329E+22	1,921115E+22	9,496444E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2706	3,787638E+22	3,787665E+22	9,605551E+21	9,604880E+21	7,575303E+22	1,921043E+22	9,496346E+22
-2705	3,787620E+22	3,787719E+22	9,605726E+21	9,605542E+21	7,575339E+22	1,921127E+22	9,496466E+22
-2704	3,787756E+22	3,787611E+22	9,605003E+21	9,605572E+21	7,575367E+22	1,921057E+22	9,496424E+22
-2703	3,787571E+22	3,787705E+22	9,605822E+21	9,605258E+21	7,575277E+22	1,921108E+22	9,496385E+22
-2702	3,787644E+22	3,787635E+22	9,605632E+21	9,606404E+21	7,575279E+22	1,921204E+22	9,496483E+22
-2701	3,787669E+22	3,787503E+22	9,605627E+21	9,606005E+21	7,575172E+22	1,921163E+22	9,496336E+22
-2700	3,787463E+22	3,787583E+22	9,606942E+21	9,606210E+21	7,575046E+22	1,921315E+22	9,496361E+22
-2699	3,787576E+22	3,787474E+22	9,606606E+21	9,607311E+21	7,575050E+22	1,921392E+22	9,496442E+22
-2698	3,787431E+22	3,787407E+22	9,607213E+21	9,606964E+21	7,574838E+22	1,921418E+22	9,496256E+22
-2697	3,787251E+22	3,787430E+22	9,608011E+21	9,607768E+21	7,574681E+22	1,921578E+22	9,496259E+22
-2696	3,787391E+22	3,787263E+22	9,607369E+21	9,608179E+21	7,574654E+22	1,921555E+22	9,496209E+22
-2695	3,787227E+22	3,787304E+22	9,608115E+21	9,607465E+21	7,574531E+22	1,921558E+22	9,496089E+22
-2694	3,787292E+22	3,787299E+22	9,607934E+21	9,608191E+21	7,574591E+22	1,921612E+22	9,496203E+22
-2693	3,787421E+22	3,787224E+22	9,607203E+21	9,607632E+21	7,574645E+22	1,921484E+22	9,496129E+22
-2692	3,787245E+22	3,787410E+22	9,607831E+21	9,607059E+21	7,574655E+22	1,921489E+22	9,496144E+22
-2691	3,787436E+22	3,787419E+22	9,606918E+21	9,607635E+21	7,574855E+22	1,921455E+22	9,496311E+22
-2690	3,787462E+22	3,787413E+22	9,606568E+21	9,606523E+21	7,574875E+22	1,921309E+22	9,496184E+22
-2689	3,787362E+22	3,787543E+22	9,606997E+21	9,606335E+21	7,574905E+22	1,921333E+22	9,496238E+22
-2688	3,787614E+22	3,787471E+22	9,605974E+21	9,606531E+21	7,575084E+22	1,921250E+22	9,496335E+22
-2687	3,787516E+22	3,787544E+22	9,606273E+21	9,605659E+21	7,575060E+22	1,921193E+22	9,496253E+22
-2686	3,787503E+22	3,787593E+22	9,606335E+21	9,606407E+21	7,575096E+22	1,921274E+22	9,496370E+22
-2685	3,787640E+22	3,787481E+22	9,605574E+21	9,606386E+21	7,575121E+22	1,921196E+22	9,496317E+22
-2684	3,787430E+22	3,787567E+22	9,606577E+21	9,605999E+21	7,574996E+22	1,921258E+22	9,496254E+22
-2683	3,787532E+22	3,787512E+22	9,606542E+21	9,607049E+21	7,575044E+22	1,921359E+22	9,496403E+22
-2682	3,787548E+22	3,787387E+22	9,606606E+21	9,606814E+21	7,574934E+22	1,921342E+22	9,496276E+22
-2681	3,787287E+22	3,787443E+22	9,607877E+21	9,607129E+21	7,574731E+22	1,921501E+22	9,496231E+22
-2680	3,787405E+22	3,787319E+22	9,607514E+21	9,608286E+21	7,574724E+22	1,921580E+22	9,496304E+22
-2679	3,787258E+22	3,787262E+22	9,608063E+21	9,607936E+21	7,574520E+22	1,921600E+22	9,496120E+22
-2678	3,787121E+22	3,787266E+22	9,608725E+21	9,608597E+21	7,574386E+22	1,921732E+22	9,496118E+22
-2677	3,787296E+22	3,787109E+22	9,608016E+21	9,608854E+21	7,574405E+22	1,921687E+22	9,496092E+22
-2676	3,787115E+22	3,787167E+22	9,608850E+21	9,608106E+21	7,574282E+22	1,921696E+22	9,495977E+22
-2675	3,787183E+22	3,787211E+22	9,608672E+21	9,608812E+21	7,574394E+22	1,921748E+22	9,496142E+22
-2674	3,787301E+22	3,787156E+22	9,607890E+21	9,608370E+21	7,574456E+22	1,921626E+22	9,496082E+22
-2673	3,787099E+22	3,787298E+22	9,608459E+21	9,607715E+21	7,574398E+22	1,921617E+22	9,496015E+22
-2672	3,787327E+22	3,787290E+22	9,607592E+21	9,608178E+21	7,574617E+22	1,921577E+22	9,496194E+22
-2671	3,787365E+22	3,787300E+22	9,607250E+21	9,607067E+21	7,574665E+22	1,921432E+22	9,496097E+22
-2670	3,787275E+22	3,787420E+22	9,607592E+21	9,606933E+21	7,574695E+22	1,921453E+22	9,496147E+22
-2669	3,787512E+22	3,787369E+22	9,606500E+21	9,607215E+21	7,574881E+22	1,921372E+22	9,496252E+22
-2668	3,787372E+22	3,787431E+22	9,606903E+21	9,606435E+21	7,574804E+22	1,921334E+22	9,496137E+22
-2667	3,787370E+22	3,787489E+22	9,607071E+21	9,607130E+21	7,574859E+22	1,921420E+22	9,496279E+22
-2666	3,787523E+22	3,787372E+22	9,606382E+21	9,607174E+21	7,574895E+22	1,921356E+22	9,496250E+22
-2665	3,787295E+22	3,787409E+22	9,607445E+21	9,606756E+21	7,574703E+22	1,921420E+22	9,496123E+22
-2664	3,787409E+22	3,787353E+22	9,607496E+21	9,607866E+21	7,574763E+22	1,921536E+22	9,496299E+22
-2663	3,787391E+22	3,787258E+22	9,607532E+21	9,607785E+21	7,574650E+22	1,921532E+22	9,496181E+22
-2662	3,787128E+22	3,787295E+22	9,608671E+21	9,608141E+21	7,574423E+22	1,921681E+22	9,496104E+22
-2661	3,787255E+22	3,787167E+22	9,608231E+21	9,609164E+21	7,574422E+22	1,921740E+22	9,496162E+22
-2660	3,787104E+22	3,787098E+22	9,608886E+21	9,608702E+21	7,574202E+22	1,921759E+22	9,495961E+22
-2659	3,787009E+22	3,787129E+22	9,609587E+21	9,609216E+21	7,574137E+22	1,921880E+22	9,496018E+22
-2658	3,787190E+22	3,787002E+22	9,608836E+21	9,609576E+21	7,574192E+22	1,921841E+22	9,496033E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2657	3,786973E+22	3,787051E+22	9,609563E+21	9,608864E+21	7,574024E+22	1,921843E+22	9,495867E+22
-2656	3,787060E+22	3,787099E+22	9,609357E+21	9,609548E+21	7,574159E+22	1,921891E+22	9,496049E+22
-2655	3,787172E+22	3,787065E+22	9,608543E+21	9,609052E+21	7,574237E+22	1,921759E+22	9,495996E+22
-2654	3,787006E+22	3,787182E+22	9,609020E+21	9,608302E+21	7,574188E+22	1,921732E+22	9,495920E+22
-2653	3,787246E+22	3,787168E+22	9,608133E+21	9,608639E+21	7,574414E+22	1,921677E+22	9,496091E+22
-2652	3,787247E+22	3,787183E+22	9,607913E+21	9,607659E+21	7,574430E+22	1,921557E+22	9,495987E+22
-2651	3,787154E+22	3,787327E+22	9,608259E+21	9,607611E+21	7,574482E+22	1,921587E+22	9,496069E+22
-2650	3,787376E+22	3,787276E+22	9,607160E+21	9,608060E+21	7,574653E+22	1,921522E+22	9,496175E+22
-2649	3,787225E+22	3,787288E+22	9,607567E+21	9,607231E+21	7,574513E+22	1,921480E+22	9,495993E+22
-2648	3,787268E+22	3,787330E+22	9,607839E+21	9,607825E+21	7,574598E+22	1,921566E+22	9,496165E+22
-2647	3,787419E+22	3,787241E+22	9,607232E+21	9,607888E+21	7,574660E+22	1,921512E+22	9,496172E+22
-2646	3,787190E+22	3,787272E+22	9,608243E+21	9,607567E+21	7,574463E+22	1,921581E+22	9,496044E+22
-2645	3,787270E+22	3,787234E+22	9,608259E+21	9,608700E+21	7,574504E+22	1,921696E+22	9,496200E+22
-2644	3,787209E+22	3,787131E+22	9,608412E+21	9,608727E+21	7,574340E+22	1,921714E+22	9,496054E+22
-2643	3,786963E+22	3,787164E+22	9,609590E+21	9,608985E+21	7,574127E+22	1,921857E+22	9,495984E+22
-2642	3,787109E+22	3,787030E+22	9,609156E+21	9,610017E+21	7,574139E+22	1,921917E+22	9,496056E+22
-2641	3,786960E+22	3,786918E+22	9,609784E+21	9,609494E+21	7,573878E+22	1,921928E+22	9,495805E+22
-2640	3,786892E+22	3,786968E+22	9,610455E+21	9,610023E+21	7,573860E+22	1,922048E+22	9,495908E+22
-2639	3,787055E+22	3,786896E+22	9,609611E+21	9,610448E+21	7,573951E+22	1,922006E+22	9,495957E+22
-2638	3,786849E+22	3,786933E+22	9,610144E+21	9,609681E+21	7,573782E+22	1,921983E+22	9,495765E+22
-2637	3,786949E+22	3,786988E+22	9,609873E+21	9,610131E+21	7,573937E+22	1,922000E+22	9,495938E+22
-2636	3,787057E+22	3,786949E+22	9,609171E+21	9,609548E+21	7,574006E+22	1,921872E+22	9,495878E+22
-2635	3,786912E+22	3,787080E+22	9,609696E+21	9,608733E+21	7,573992E+22	1,921843E+22	9,495835E+22
-2634	3,787138E+22	3,787089E+22	9,608791E+21	9,609255E+21	7,574227E+22	1,921805E+22	9,496031E+22
-2633	3,787103E+22	3,787064E+22	9,608525E+21	9,608394E+21	7,574168E+22	1,921692E+22	9,495860E+22
-2632	3,787037E+22	3,787200E+22	9,608885E+21	9,608384E+21	7,574237E+22	1,921727E+22	9,495964E+22
-2631	3,787261E+22	3,787164E+22	9,607832E+21	9,608811E+21	7,574425E+22	1,921664E+22	9,496089E+22
-2630	3,787142E+22	3,787148E+22	9,608197E+21	9,607933E+21	7,574289E+22	1,921613E+22	9,495902E+22
-2629	3,787187E+22	3,787198E+22	9,608533E+21	9,608419E+21	7,574385E+22	1,921695E+22	9,496080E+22
-2628	3,787283E+22	3,787123E+22	9,608105E+21	9,608659E+21	7,574406E+22	1,921676E+22	9,496082E+22
-2627	3,787033E+22	3,787169E+22	9,609166E+21	9,608442E+21	7,574202E+22	1,921761E+22	9,495962E+22
-2626	3,787089E+22	3,787121E+22	9,609179E+21	9,609690E+21	7,574210E+22	1,921887E+22	9,496097E+22
-2625	3,787018E+22	3,786953E+22	9,609336E+21	9,609685E+21	7,573970E+22	1,921902E+22	9,495873E+22
-2624	3,786828E+22	3,786970E+22	9,610517E+21	9,609844E+21	7,573798E+22	1,922036E+22	9,495835E+22
-2623	3,786980E+22	3,786871E+22	9,610064E+21	9,610851E+21	7,573851E+22	1,922091E+22	9,495943E+22
-2622	3,786853E+22	3,786770E+22	9,610501E+21	9,610369E+21	7,573623E+22	1,922087E+22	9,495710E+22
-2621	3,786777E+22	3,786850E+22	9,611051E+21	9,610769E+21	7,573627E+22	1,922182E+22	9,495809E+22
-2620	3,786907E+22	3,786797E+22	9,610299E+21	9,611185E+21	7,573704E+22	1,922148E+22	9,495853E+22
-2619	3,786729E+22	3,786844E+22	9,610836E+21	9,610262E+21	7,573574E+22	1,922110E+22	9,495684E+22
-2618	3,786835E+22	3,786896E+22	9,610577E+21	9,610664E+21	7,573730E+22	1,922124E+22	9,495855E+22
-2617	3,786931E+22	3,786810E+22	9,609889E+21	9,610113E+21	7,573741E+22	1,922000E+22	9,495741E+22
-2616	3,786806E+22	3,786942E+22	9,610383E+21	9,609402E+21	7,573748E+22	1,921978E+22	9,495726E+22
-2615	3,787006E+22	3,786985E+22	9,609431E+21	9,610038E+21	7,573991E+22	1,921947E+22	9,495938E+22
-2614	3,786999E+22	3,786934E+22	9,609021E+21	9,609194E+21	7,573933E+22	1,921821E+22	9,495755E+22
-2613	3,786952E+22	3,787072E+22	9,609375E+21	9,608965E+21	7,574025E+22	1,921834E+22	9,495858E+22
-2612	3,787163E+22	3,787050E+22	9,608539E+21	9,609373E+21	7,574214E+22	1,921791E+22	9,496005E+22
-2611	3,787051E+22	3,787051E+22	9,609002E+21	9,608507E+21	7,574103E+22	1,921751E+22	9,495853E+22
-2610	3,787052E+22	3,787120E+22	9,609399E+21	9,609190E+21	7,574172E+22	1,921859E+22	9,496031E+22
-2609	3,787096E+22	3,786991E+22	9,609006E+21	9,609605E+21	7,574087E+22	1,921861E+22	9,495949E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2608	3,786863E+22	3,787008E+22	9,610096E+21	9,609452E+21	7,573871E+22	1,921955E+22	9,495826E+22
-2607	3,786920E+22	3,786966E+22	9,610118E+21	9,610663E+21	7,573887E+22	1,922078E+22	9,495965E+22
-2606	3,786896E+22	3,786756E+22	9,610144E+21	9,610593E+21	7,573652E+22	1,922074E+22	9,495726E+22
-2605	3,786727E+22	3,786794E+22	9,611257E+21	9,610597E+21	7,573521E+22	1,922185E+22	9,495706E+22
-2604	3,786847E+22	3,786739E+22	9,610881E+21	9,611690E+21	7,573586E+22	1,922257E+22	9,495844E+22
-2603	3,786716E+22	3,786672E+22	9,611268E+21	9,611173E+21	7,573389E+22	1,922244E+22	9,495633E+22
-2602	3,786632E+22	3,786767E+22	9,611792E+21	9,611527E+21	7,573400E+22	1,922332E+22	9,495732E+22
-2601	3,786755E+22	3,786660E+22	9,611070E+21	9,611826E+21	7,573415E+22	1,922290E+22	9,495704E+22
-2600	3,786622E+22	3,786699E+22	9,611605E+21	9,610830E+21	7,573320E+22	1,922243E+22	9,495564E+22
-2599	3,786717E+22	3,786780E+22	9,611318E+21	9,611255E+21	7,573497E+22	1,922257E+22	9,495755E+22
-2598	3,786826E+22	3,786683E+22	9,610429E+21	9,610838E+21	7,573508E+22	1,922127E+22	9,495635E+22
-2597	3,786707E+22	3,786829E+22	9,610807E+21	9,610061E+21	7,573536E+22	1,922087E+22	9,495623E+22
-2596	3,786890E+22	3,786887E+22	9,609990E+21	9,610720E+21	7,573777E+22	1,922071E+22	9,495848E+22
-2595	3,786912E+22	3,786847E+22	9,609633E+21	9,609761E+21	7,573759E+22	1,921939E+22	9,495699E+22
-2594	3,786865E+22	3,786986E+22	9,610082E+21	9,609511E+21	7,573852E+22	1,921959E+22	9,495811E+22
-2593	3,787036E+22	3,786921E+22	9,609391E+21	9,610034E+21	7,573958E+22	1,921942E+22	9,495900E+22
-2592	3,786917E+22	3,786922E+22	9,609890E+21	9,609378E+21	7,573839E+22	1,921927E+22	9,495766E+22
-2591	3,786867E+22	3,786999E+22	9,610299E+21	9,610173E+21	7,573866E+22	1,922047E+22	9,495913E+22
-2590	3,786936E+22	3,786819E+22	9,609781E+21	9,610646E+21	7,573755E+22	1,922043E+22	9,495798E+22
-2589	3,786738E+22	3,786816E+22	9,610818E+21	9,610258E+21	7,573555E+22	1,922108E+22	9,495662E+22
-2588	3,786791E+22	3,786794E+22	9,610986E+21	9,611433E+21	7,573585E+22	1,922242E+22	9,495827E+22
-2587	3,786791E+22	3,786623E+22	9,610996E+21	9,611337E+21	7,573414E+22	1,922233E+22	9,495647E+22
-2586	3,786596E+22	3,786699E+22	9,612076E+21	9,611412E+21	7,573295E+22	1,922349E+22	9,495644E+22
-2585	3,786675E+22	3,786617E+22	9,611751E+21	9,612558E+21	7,573292E+22	1,922431E+22	9,495723E+22
-2584	3,786568E+22	3,786546E+22	9,612129E+21	9,612007E+21	7,573114E+22	1,922414E+22	9,495527E+22
-2583	3,786479E+22	3,786650E+22	9,612650E+21	9,612236E+21	7,573129E+22	1,922489E+22	9,495617E+22
-2582	3,786644E+22	3,786501E+22	9,611777E+21	9,612507E+21	7,573145E+22	1,922428E+22	9,495573E+22
-2581	3,786528E+22	3,786546E+22	9,612200E+21	9,611411E+21	7,573074E+22	1,922361E+22	9,495435E+22
-2580	3,786590E+22	3,786669E+22	9,611943E+21	9,611964E+21	7,573260E+22	1,922391E+22	9,495651E+22
-2579	3,786713E+22	3,786596E+22	9,610969E+21	9,611537E+21	7,573309E+22	1,922251E+22	9,495560E+22
-2578	3,786603E+22	3,786753E+22	9,611334E+21	9,610711E+21	7,573356E+22	1,922204E+22	9,495560E+22
-2577	3,786779E+22	3,786765E+22	9,610657E+21	9,611286E+21	7,573544E+22	1,922194E+22	9,495738E+22
-2576	3,786829E+22	3,786725E+22	9,610378E+21	9,610321E+21	7,573554E+22	1,922070E+22	9,495624E+22
-2575	3,786749E+22	3,786891E+22	9,610910E+21	9,610159E+21	7,573640E+22	1,922107E+22	9,495747E+22
-2574	3,786906E+22	3,786790E+22	9,610106E+21	9,610867E+21	7,573696E+22	1,922097E+22	9,495793E+22
-2573	3,786776E+22	3,786780E+22	9,610565E+21	9,610218E+21	7,573556E+22	1,922078E+22	9,495634E+22
-2572	3,786707E+22	3,786859E+22	9,611104E+21	9,611062E+21	7,573566E+22	1,922217E+22	9,495783E+22
-2571	3,786808E+22	3,786675E+22	9,610600E+21	9,611438E+21	7,573483E+22	1,922204E+22	9,495686E+22
-2570	3,786626E+22	3,786678E+22	9,611661E+21	9,611018E+21	7,573304E+22	1,922268E+22	9,495572E+22
-2569	3,786649E+22	3,786629E+22	9,611947E+21	9,612268E+21	7,573277E+22	1,922421E+22	9,495699E+22
-2568	3,786644E+22	3,786487E+22	9,611940E+21	9,612292E+21	7,573131E+22	1,922423E+22	9,495554E+22
-2567	3,786418E+22	3,786588E+22	9,613009E+21	9,612373E+21	7,573006E+22	1,922538E+22	9,495544E+22
-2566	3,786521E+22	3,786462E+22	9,612547E+21	9,613468E+21	7,572983E+22	1,922602E+22	9,495584E+22
-2565	3,786448E+22	3,786384E+22	9,612837E+21	9,612673E+21	7,572833E+22	1,922551E+22	9,495384E+22
-2564	3,786354E+22	3,786511E+22	9,613411E+21	9,612861E+21	7,572865E+22	1,922627E+22	9,495492E+22
-2563	3,786539E+22	3,786393E+22	9,612438E+21	9,613125E+21	7,572931E+22	1,922566E+22	9,495488E+22
-2562	3,786416E+22	3,786464E+22	9,612755E+21	9,612088E+21	7,572880E+22	1,922484E+22	9,495365E+22
-2561	3,786453E+22	3,786556E+22	9,612570E+21	9,612681E+21	7,573009E+22	1,922525E+22	9,495534E+22
-2560	3,786610E+22	3,786493E+22	9,611610E+21	9,612215E+21	7,573103E+22	1,922383E+22	9,495486E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2559	3,786498E+22	3,786656E+22	9,612032E+21	9,611270E+21	7,573154E+22	1,922330E+22	9,495484E+22
-2558	3,786696E+22	3,786629E+22	9,611320E+21	9,611869E+21	7,573325E+22	1,922319E+22	9,495644E+22
-2557	3,786741E+22	3,786592E+22	9,611017E+21	9,610914E+21	7,573332E+22	1,922193E+22	9,495526E+22
-2556	3,786598E+22	3,786782E+22	9,611659E+21	9,610946E+21	7,573380E+22	1,922260E+22	9,495641E+22
-2555	3,786757E+22	3,786683E+22	9,610831E+21	9,611703E+21	7,573440E+22	1,922253E+22	9,495693E+22
-2554	3,786637E+22	3,786656E+22	9,611309E+21	9,611034E+21	7,573293E+22	1,922234E+22	9,495527E+22
-2553	3,786559E+22	3,786684E+22	9,612010E+21	9,611846E+21	7,573243E+22	1,922386E+22	9,495629E+22
-2552	3,786688E+22	3,786514E+22	9,611548E+21	9,612252E+21	7,573202E+22	1,922380E+22	9,495582E+22
-2551	3,786480E+22	3,786551E+22	9,612624E+21	9,611907E+21	7,573032E+22	1,922453E+22	9,495485E+22
-2550	3,786499E+22	3,786483E+22	9,612784E+21	9,613278E+21	7,572981E+22	1,922606E+22	9,495588E+22
-2549	3,786497E+22	3,786342E+22	9,612718E+21	9,613208E+21	7,572839E+22	1,922593E+22	9,495432E+22
-2548	3,786257E+22	3,786460E+22	9,613869E+21	9,613231E+21	7,572717E+22	1,922710E+22	9,495427E+22
-2547	3,786395E+22	3,786333E+22	9,613351E+21	9,614149E+21	7,572728E+22	1,922750E+22	9,495477E+22
-2546	3,786339E+22	3,786261E+22	9,613591E+21	9,613313E+21	7,572600E+22	1,922690E+22	9,495290E+22
-2545	3,786214E+22	3,786365E+22	9,614202E+21	9,613578E+21	7,572578E+22	1,922778E+22	9,495356E+22
-2544	3,786400E+22	3,786279E+22	9,613138E+21	9,613918E+21	7,572678E+22	1,922706E+22	9,495384E+22
-2543	3,786280E+22	3,786369E+22	9,613408E+21	9,612852E+21	7,572649E+22	1,922626E+22	9,495275E+22
-2542	3,786356E+22	3,786415E+22	9,613116E+21	9,613344E+21	7,572771E+22	1,922646E+22	9,495417E+22
-2541	3,786540E+22	3,786359E+22	9,612149E+21	9,612660E+21	7,572899E+22	1,922481E+22	9,495380E+22
-2540	3,786411E+22	3,786557E+22	9,612689E+21	9,611760E+21	7,572968E+22	1,922445E+22	9,495412E+22
-2539	3,786595E+22	3,786548E+22	9,611964E+21	9,612419E+21	7,573143E+22	1,922438E+22	9,495582E+22
-2538	3,786612E+22	3,786520E+22	9,611651E+21	9,611636E+21	7,573132E+22	1,922329E+22	9,495461E+22
-2537	3,786429E+22	3,786651E+22	9,612452E+21	9,611794E+21	7,573080E+22	1,922425E+22	9,495505E+22
-2536	3,786605E+22	3,786547E+22	9,611677E+21	9,612570E+21	7,573153E+22	1,922425E+22	9,495577E+22
-2535	3,786500E+22	3,786511E+22	9,612215E+21	9,611865E+21	7,573010E+22	1,922408E+22	9,495418E+22
-2534	3,786447E+22	3,786494E+22	9,612860E+21	9,612725E+21	7,572941E+22	1,922558E+22	9,495499E+22
-2533	3,786570E+22	3,786349E+22	9,612364E+21	9,613135E+21	7,572920E+22	1,922550E+22	9,495470E+22
-2532	3,786318E+22	3,786428E+22	9,613491E+21	9,612903E+21	7,572746E+22	1,922639E+22	9,495385E+22
-2531	3,786345E+22	3,786366E+22	9,613612E+21	9,614192E+21	7,572711E+22	1,922780E+22	9,495492E+22
-2530	3,786358E+22	3,786222E+22	9,613533E+21	9,614003E+21	7,572580E+22	1,922754E+22	9,495333E+22
-2529	3,786104E+22	3,786294E+22	9,614807E+21	9,613950E+21	7,572398E+22	1,922876E+22	9,495273E+22
-2528	3,786262E+22	3,786192E+22	9,614253E+21	9,614856E+21	7,572455E+22	1,922911E+22	9,495366E+22
-2527	3,786193E+22	3,786141E+22	9,614410E+21	9,614070E+21	7,572334E+22	1,922848E+22	9,495182E+22
-2526	3,786080E+22	3,786220E+22	9,614831E+21	9,614412E+21	7,572299E+22	1,922924E+22	9,495224E+22
-2525	3,786293E+22	3,786146E+22	9,613680E+21	9,614619E+21	7,572439E+22	1,922830E+22	9,495269E+22
-2524	3,786171E+22	3,786267E+22	9,614000E+21	9,613466E+21	7,572438E+22	1,922747E+22	9,495185E+22
-2523	3,786283E+22	3,786323E+22	9,613693E+21	9,613797E+21	7,572607E+22	1,922749E+22	9,495356E+22
-2522	3,786466E+22	3,786277E+22	9,612752E+21	9,613120E+21	7,572743E+22	1,922587E+22	9,495330E+22
-2521	3,786276E+22	3,786446E+22	9,613440E+21	9,612420E+21	7,572721E+22	1,922586E+22	9,495307E+22
-2520	3,786435E+22	3,786455E+22	9,612719E+21	9,613222E+21	7,572890E+22	1,922594E+22	9,495484E+22
-2519	3,786446E+22	3,786408E+22	9,612439E+21	9,612521E+21	7,572854E+22	1,922496E+22	9,495350E+22
-2518	3,786300E+22	3,786471E+22	9,613174E+21	9,612664E+21	7,572772E+22	1,922584E+22	9,495355E+22
-2517	3,786509E+22	3,786365E+22	9,612409E+21	9,613297E+21	7,572874E+22	1,922571E+22	9,495445E+22
-2516	3,786391E+22	3,786370E+22	9,613024E+21	9,612655E+21	7,572761E+22	1,922568E+22	9,495329E+22
-2515	3,786334E+22	3,786381E+22	9,613624E+21	9,613533E+21	7,572715E+22	1,922716E+22	9,495431E+22
-2514	3,786433E+22	3,786257E+22	9,613147E+21	9,614013E+21	7,572690E+22	1,922716E+22	9,495406E+22
-2513	3,786143E+22	3,786292E+22	9,614456E+21	9,613839E+21	7,572436E+22	1,922829E+22	9,495265E+22
-2512	3,786172E+22	3,786236E+22	9,614610E+21	9,615019E+21	7,572408E+22	1,922963E+22	9,495371E+22
-2511	3,786202E+22	3,786079E+22	9,614549E+21	9,614804E+21	7,572281E+22	1,922935E+22	9,495216E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2510	3,785972E+22	3,786097E+22	9,615664E+21	9,614784E+21	7,572069E+22	1,923045E+22	9,495113E+22
-2509	3,786126E+22	3,786023E+22	9,614973E+21	9,615667E+21	7,572149E+22	1,923064E+22	9,495213E+22
-2508	3,786046E+22	3,786021E+22	9,615060E+21	9,614939E+21	7,572068E+22	1,923000E+22	9,495068E+22
-2507	3,785972E+22	3,786110E+22	9,615365E+21	9,615115E+21	7,572082E+22	1,923048E+22	9,495130E+22
-2506	3,786209E+22	3,786057E+22	9,614218E+21	9,615142E+21	7,572266E+22	1,922936E+22	9,495202E+22
-2505	3,786074E+22	3,786151E+22	9,614693E+21	9,613954E+21	7,572225E+22	1,922865E+22	9,495090E+22
-2504	3,786174E+22	3,786241E+22	9,614419E+21	9,614296E+21	7,572415E+22	1,922871E+22	9,495286E+22
-2503	3,786329E+22	3,786202E+22	9,613486E+21	9,613798E+21	7,572532E+22	1,922728E+22	9,495260E+22
-2502	3,786135E+22	3,786307E+22	9,614079E+21	9,613267E+21	7,572442E+22	1,922735E+22	9,495177E+22
-2501	3,786305E+22	3,786308E+22	9,613353E+21	9,614010E+21	7,572612E+22	1,922736E+22	9,495349E+22
-2500	3,786324E+22	3,786271E+22	9,613142E+21	9,613300E+21	7,572596E+22	1,922644E+22	9,495240E+22
-2499	3,786221E+22	3,786329E+22	9,613861E+21	9,613341E+21	7,572550E+22	1,922720E+22	9,495270E+22
-2498	3,786425E+22	3,786245E+22	9,613154E+21	9,613995E+21	7,572670E+22	1,922715E+22	9,495385E+22
-2497	3,786241E+22	3,786238E+22	9,613929E+21	9,613537E+21	7,572479E+22	1,922747E+22	9,495226E+22
-2496	3,786158E+22	3,786279E+22	9,614575E+21	9,614463E+21	7,572437E+22	1,922904E+22	9,495340E+22
-2495	3,786251E+22	3,786133E+22	9,614165E+21	9,614959E+21	7,572384E+22	1,922912E+22	9,495296E+22
-2494	3,785982E+22	3,786098E+22	9,615410E+21	9,614756E+21	7,572081E+22	1,923017E+22	9,495097E+22
-2493	3,786035E+22	3,786044E+22	9,615506E+21	9,615795E+21	7,572080E+22	1,923130E+22	9,495210E+22
-2492	3,786055E+22	3,785924E+22	9,615401E+21	9,615651E+21	7,571979E+22	1,923105E+22	9,495085E+22
-2491	3,785847E+22	3,785965E+22	9,616319E+21	9,615619E+21	7,571811E+22	1,923194E+22	9,495005E+22
-2490	3,786007E+22	3,785918E+22	9,615560E+21	9,616446E+21	7,571925E+22	1,923201E+22	9,495126E+22
-2489	3,785913E+22	3,785901E+22	9,615756E+21	9,615685E+21	7,571815E+22	1,923144E+22	9,494959E+22
-2488	3,785859E+22	3,786021E+22	9,616079E+21	9,615669E+21	7,571880E+22	1,923175E+22	9,495055E+22
-2487	3,786108E+22	3,785965E+22	9,614998E+21	9,615665E+21	7,572073E+22	1,923066E+22	9,495140E+22
-2486	3,785973E+22	3,786012E+22	9,615381E+21	9,614596E+21	7,571985E+22	1,922998E+22	9,494982E+22
-2485	3,786046E+22	3,786117E+22	9,615038E+21	9,614971E+21	7,572163E+22	1,923001E+22	9,495164E+22
-2484	3,786182E+22	3,786097E+22	9,614106E+21	9,614613E+21	7,572279E+22	1,922872E+22	9,495151E+22
-2483	3,786032E+22	3,786178E+22	9,614618E+21	9,613995E+21	7,572209E+22	1,922861E+22	9,495070E+22
-2482	3,786221E+22	3,786184E+22	9,613952E+21	9,614607E+21	7,572405E+22	1,922856E+22	9,495261E+22
-2481	3,786226E+22	3,786129E+22	9,613931E+21	9,613957E+21	7,572356E+22	1,922789E+22	9,495145E+22
-2480	3,786101E+22	3,786227E+22	9,614697E+21	9,614013E+21	7,572328E+22	1,922871E+22	9,495199E+22
-2479	3,786271E+22	3,786155E+22	9,614076E+21	9,614859E+21	7,572427E+22	1,922893E+22	9,495320E+22
-2478	3,786078E+22	3,786083E+22	9,614807E+21	9,614558E+21	7,572161E+22	1,922936E+22	9,495098E+22
-2477	3,785987E+22	3,786115E+22	9,615478E+21	9,615382E+21	7,572102E+22	1,923086E+22	9,495188E+22
-2476	3,786089E+22	3,785978E+22	9,615108E+21	9,615876E+21	7,572066E+22	1,923098E+22	9,495165E+22
-2475	3,785867E+22	3,785919E+22	9,616250E+21	9,615582E+21	7,571786E+22	1,923183E+22	9,494969E+22
-2474	3,785914E+22	3,785894E+22	9,616288E+21	9,616594E+21	7,571807E+22	1,923288E+22	9,495095E+22
-2473	3,785893E+22	3,785776E+22	9,616223E+21	9,616586E+21	7,571669E+22	1,923281E+22	9,494950E+22
-2472	3,785687E+22	3,785858E+22	9,617074E+21	9,616463E+21	7,571545E+22	1,923354E+22	9,494898E+22
-2471	3,785872E+22	3,785814E+22	9,616362E+21	9,617204E+21	7,571686E+22	1,923357E+22	9,495043E+22
-2470	3,785810E+22	3,785747E+22	9,616475E+21	9,616337E+21	7,571558E+22	1,923281E+22	9,494839E+22
-2469	3,785769E+22	3,785886E+22	9,616772E+21	9,616160E+21	7,571655E+22	1,923293E+22	9,494948E+22
-2468	3,785994E+22	3,785870E+22	9,615673E+21	9,616253E+21	7,571864E+22	1,923193E+22	9,495057E+22
-2467	3,785866E+22	3,785913E+22	9,615910E+21	9,615269E+21	7,571779E+22	1,923118E+22	9,494897E+22
-2466	3,785931E+22	3,786025E+22	9,615560E+21	9,615632E+21	7,571956E+22	1,923119E+22	9,495075E+22
-2465	3,786045E+22	3,785974E+22	9,614788E+21	9,615333E+21	7,572019E+22	1,923012E+22	9,495031E+22
-2464	3,785920E+22	3,786072E+22	9,615339E+21	9,614602E+21	7,571992E+22	1,922994E+22	9,494986E+22
-2463	3,786123E+22	3,786065E+22	9,614799E+21	9,615259E+21	7,572188E+22	1,923006E+22	9,495194E+22
-2462	3,786108E+22	3,785971E+22	9,614732E+21	9,614787E+21	7,572079E+22	1,922952E+22	9,495031E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2461	3,785953E+22	3,786090E+22	9,615487E+21	9,614897E+21	7,572043E+22	1,923038E+22	9,495082E+22
-2460	3,786097E+22	3,786032E+22	9,614930E+21	9,615840E+21	7,572128E+22	1,923077E+22	9,495205E+22
-2459	3,785942E+22	3,785929E+22	9,615605E+21	9,615479E+21	7,571870E+22	1,923108E+22	9,494979E+22
-2458	3,785863E+22	3,785959E+22	9,616306E+21	9,616134E+21	7,571822E+22	1,923244E+22	9,495066E+22
-2457	3,785942E+22	3,785807E+22	9,616066E+21	9,616707E+21	7,571749E+22	1,923277E+22	9,495026E+22
-2456	3,785715E+22	3,785791E+22	9,617140E+21	9,616400E+21	7,571505E+22	1,923354E+22	9,494859E+22
-2455	3,785755E+22	3,785776E+22	9,617182E+21	9,617510E+21	7,571531E+22	1,923469E+22	9,495000E+22
-2454	3,785744E+22	3,785619E+22	9,617009E+21	9,617541E+21	7,571363E+22	1,923455E+22	9,494818E+22
-2453	3,785559E+22	3,785716E+22	9,617815E+21	9,617207E+21	7,571274E+22	1,923502E+22	9,494776E+22
-2452	3,785758E+22	3,785698E+22	9,617140E+21	9,617853E+21	7,571457E+22	1,923499E+22	9,494956E+22
-2451	3,785737E+22	3,785621E+22	9,617124E+21	9,616915E+21	7,571358E+22	1,923404E+22	9,494762E+22
-2450	3,785668E+22	3,785788E+22	9,617366E+21	9,616707E+21	7,571455E+22	1,923407E+22	9,494863E+22
-2449	3,785841E+22	3,785768E+22	9,616338E+21	9,616994E+21	7,571609E+22	1,923333E+22	9,494942E+22
-2448	3,785716E+22	3,785819E+22	9,616538E+21	9,615955E+21	7,571536E+22	1,923249E+22	9,494785E+22
-2447	3,785806E+22	3,785915E+22	9,616283E+21	9,616310E+21	7,571720E+22	1,923259E+22	9,494980E+22
-2446	3,785948E+22	3,785809E+22	9,615473E+21	9,616018E+21	7,571757E+22	1,923149E+22	9,494906E+22
-2445	3,785829E+22	3,785925E+22	9,616020E+21	9,615225E+21	7,571754E+22	1,923124E+22	9,494878E+22
-2444	3,786004E+22	3,785961E+22	9,615533E+21	9,616019E+21	7,571965E+22	1,923155E+22	9,495120E+22
-2443	3,785994E+22	3,785854E+22	9,615381E+21	9,615648E+21	7,571849E+22	1,923103E+22	9,494952E+22
-2442	3,785819E+22	3,785977E+22	9,616211E+21	9,615701E+21	7,571795E+22	1,923191E+22	9,494987E+22
-2441	3,785931E+22	3,785891E+22	9,615860E+21	9,616707E+21	7,571822E+22	1,923257E+22	9,495079E+22
-2440	3,785790E+22	3,785791E+22	9,616583E+21	9,616252E+21	7,571582E+22	1,923284E+22	9,494865E+22
-2439	3,785721E+22	3,785808E+22	9,617366E+21	9,616986E+21	7,571529E+22	1,923435E+22	9,494964E+22
-2438	3,785781E+22	3,785618E+22	9,617007E+21	9,617722E+21	7,571400E+22	1,923473E+22	9,494872E+22
-2437	3,785550E+22	3,785627E+22	9,617968E+21	9,617395E+21	7,571177E+22	1,923536E+22	9,494713E+22
-2436	3,785596E+22	3,785640E+22	9,618007E+21	9,618460E+21	7,571236E+22	1,923647E+22	9,494883E+22
-2435	3,785640E+22	3,785474E+22	9,617714E+21	9,618327E+21	7,571114E+22	1,923604E+22	9,494718E+22
-2434	3,785473E+22	3,785595E+22	9,618503E+21	9,617747E+21	7,571068E+22	1,923625E+22	9,494694E+22
-2433	3,785634E+22	3,785583E+22	9,617937E+21	9,618435E+21	7,571216E+22	1,923637E+22	9,494854E+22
-2432	3,785595E+22	3,785548E+22	9,617836E+21	9,617515E+21	7,571143E+22	1,923535E+22	9,494678E+22
-2431	3,785521E+22	3,785700E+22	9,618077E+21	9,617432E+21	7,571221E+22	1,923551E+22	9,494772E+22
-2430	3,785691E+22	3,785624E+22	9,616970E+21	9,617796E+21	7,571314E+22	1,923477E+22	9,494791E+22
-2429	3,785604E+22	3,785677E+22	9,617130E+21	9,616627E+21	7,571281E+22	1,923376E+22	9,494657E+22
-2428	3,785717E+22	3,785785E+22	9,616950E+21	9,616931E+21	7,571502E+22	1,923388E+22	9,494890E+22
-2427	3,785892E+22	3,785676E+22	9,616063E+21	9,616661E+21	7,571567E+22	1,923272E+22	9,494840E+22
-2426	3,785739E+22	3,785825E+22	9,616610E+21	9,615867E+21	7,571563E+22	1,923248E+22	9,494811E+22
-2425	3,785846E+22	3,785860E+22	9,616305E+21	9,616846E+21	7,571706E+22	1,923315E+22	9,495021E+22
-2424	3,785832E+22	3,785760E+22	9,616215E+21	9,616447E+21	7,571592E+22	1,923266E+22	9,494858E+22
-2423	3,785669E+22	3,785846E+22	9,617200E+21	9,616518E+21	7,571515E+22	1,923372E+22	9,494887E+22
-2422	3,785781E+22	3,785702E+22	9,616842E+21	9,617575E+21	7,571483E+22	1,923442E+22	9,494925E+22
-2421	3,785648E+22	3,785610E+22	9,617515E+21	9,617124E+21	7,571258E+22	1,923464E+22	9,494722E+22
-2420	3,785561E+22	3,785660E+22	9,618277E+21	9,617976E+21	7,571220E+22	1,923625E+22	9,494846E+22
-2419	3,785647E+22	3,785465E+22	9,617751E+21	9,618755E+21	7,571112E+22	1,923651E+22	9,494763E+22
-2418	3,785418E+22	3,785496E+22	9,618676E+21	9,618239E+21	7,570914E+22	1,923691E+22	9,494605E+22
-2417	3,785453E+22	3,785513E+22	9,618866E+21	9,619249E+21	7,570966E+22	1,923812E+22	9,494778E+22
-2416	3,785518E+22	3,785366E+22	9,618569E+21	9,618921E+21	7,570884E+22	1,923749E+22	9,494633E+22
-2415	3,785349E+22	3,785485E+22	9,619397E+21	9,618399E+21	7,570834E+22	1,923780E+22	9,494614E+22
-2414	3,785475E+22	3,785441E+22	9,618690E+21	9,619231E+21	7,570916E+22	1,923792E+22	9,494708E+22
-2413	3,785436E+22	3,785411E+22	9,618471E+21	9,618318E+21	7,570847E+22	1,923679E+22	9,494526E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2412	3,785382E+22	3,785572E+22	9,618704E+21	9,618204E+21	7,570954E+22	1,923691E+22	9,494645E+22
-2411	3,785617E+22	3,785477E+22	9,617479E+21	9,618446E+21	7,571093E+22	1,923592E+22	9,494686E+22
-2410	3,785553E+22	3,785555E+22	9,617630E+21	9,617080E+21	7,571108E+22	1,923471E+22	9,494579E+22
-2409	3,785626E+22	3,785685E+22	9,617618E+21	9,617491E+21	7,571311E+22	1,923511E+22	9,494822E+22
-2408	3,785770E+22	3,785617E+22	9,616757E+21	9,617262E+21	7,571387E+22	1,923402E+22	9,494789E+22
-2407	3,785598E+22	3,785749E+22	9,617439E+21	9,616653E+21	7,571347E+22	1,923409E+22	9,494756E+22
-2406	3,785673E+22	3,785719E+22	9,617178E+21	9,617723E+21	7,571393E+22	1,923490E+22	9,494883E+22
-2405	3,785678E+22	3,785602E+22	9,617122E+21	9,617306E+21	7,571279E+22	1,923443E+22	9,494722E+22
-2404	3,785529E+22	3,785677E+22	9,618178E+21	9,617400E+21	7,571207E+22	1,923558E+22	9,494764E+22
-2403	3,785663E+22	3,785518E+22	9,617682E+21	9,618540E+21	7,571181E+22	1,923622E+22	9,494804E+22
-2402	3,785515E+22	3,785458E+22	9,618259E+21	9,618065E+21	7,570973E+22	1,923632E+22	9,494605E+22
-2401	3,785386E+22	3,785516E+22	9,619114E+21	9,618985E+21	7,570902E+22	1,923810E+22	9,494712E+22
-2400	3,785488E+22	3,785352E+22	9,618613E+21	9,619592E+21	7,570840E+22	1,923821E+22	9,494661E+22
-2399	3,785295E+22	3,785371E+22	9,619619E+21	9,618996E+21	7,570665E+22	1,923862E+22	9,494527E+22
-2398	3,785313E+22	3,785351E+22	9,619782E+21	9,619960E+21	7,570664E+22	1,923974E+22	9,494638E+22
-2397	3,785379E+22	3,785231E+22	9,619387E+21	9,619633E+21	7,570610E+22	1,923902E+22	9,494512E+22
-2396	3,785197E+22	3,785365E+22	9,620146E+21	9,619192E+21	7,570562E+22	1,923934E+22	9,494496E+22
-2395	3,785348E+22	3,785305E+22	9,619241E+21	9,620046E+21	7,570653E+22	1,923929E+22	9,494582E+22
-2394	3,785332E+22	3,785287E+22	9,618951E+21	9,618951E+21	7,570619E+22	1,923790E+22	9,494409E+22
-2393	3,785279E+22	3,785453E+22	9,619318E+21	9,618800E+21	7,570732E+22	1,923812E+22	9,494544E+22
-2392	3,785539E+22	3,785389E+22	9,618146E+21	9,618905E+21	7,570927E+22	1,923705E+22	9,494632E+22
-2391	3,785470E+22	3,785472E+22	9,618371E+21	9,617672E+21	7,570942E+22	1,923604E+22	9,494546E+22
-2390	3,785481E+22	3,785574E+22	9,618345E+21	9,618253E+21	7,571055E+22	1,923660E+22	9,494715E+22
-2389	3,785612E+22	3,785503E+22	9,617492E+21	9,618093E+21	7,571114E+22	1,923558E+22	9,494673E+22
-2388	3,785444E+22	3,785616E+22	9,618283E+21	9,617530E+21	7,571059E+22	1,923581E+22	9,494641E+22
-2387	3,785557E+22	3,785549E+22	9,617952E+21	9,618564E+21	7,571106E+22	1,923652E+22	9,494758E+22
-2386	3,785570E+22	3,785436E+22	9,617879E+21	9,618043E+21	7,571006E+22	1,923592E+22	9,494598E+22
-2385	3,785387E+22	3,785528E+22	9,619034E+21	9,618291E+21	7,570915E+22	1,923732E+22	9,494648E+22
-2384	3,785509E+22	3,785402E+22	9,618518E+21	9,619414E+21	7,570911E+22	1,923793E+22	9,494704E+22
-2383	3,785363E+22	3,785336E+22	9,619158E+21	9,619026E+21	7,570699E+22	1,923818E+22	9,494518E+22
-2382	3,785218E+22	3,785360E+22	9,620028E+21	9,619915E+21	7,570577E+22	1,923994E+22	9,494571E+22
-2381	3,785343E+22	3,785199E+22	9,619559E+21	9,620397E+21	7,570542E+22	1,923996E+22	9,494538E+22
-2380	3,785163E+22	3,785222E+22	9,620610E+21	9,619783E+21	7,570385E+22	1,924039E+22	9,494424E+22
-2379	3,785188E+22	3,785195E+22	9,620569E+21	9,620775E+21	7,570383E+22	1,924134E+22	9,494517E+22
-2378	3,785237E+22	3,785099E+22	9,620017E+21	9,620408E+21	7,570336E+22	1,924043E+22	9,494379E+22
-2377	3,785037E+22	3,785237E+22	9,620800E+21	9,620017E+21	7,570274E+22	1,924082E+22	9,494355E+22
-2376	3,785221E+22	3,785199E+22	9,619882E+21	9,620659E+21	7,570420E+22	1,924054E+22	9,494474E+22
-2375	3,785253E+22	3,785181E+22	9,619642E+21	9,619516E+21	7,570433E+22	1,923916E+22	9,494349E+22
-2374	3,785183E+22	3,785324E+22	9,620001E+21	9,619362E+21	7,570507E+22	1,923936E+22	9,494443E+22
-2373	3,785431E+22	3,785292E+22	9,618826E+21	9,619523E+21	7,570724E+22	1,923835E+22	9,494558E+22
-2372	3,785342E+22	3,785383E+22	9,619078E+21	9,618440E+21	7,570725E+22	1,923752E+22	9,494477E+22
-2371	3,785352E+22	3,785453E+22	9,618962E+21	9,619067E+21	7,570805E+22	1,923803E+22	9,494608E+22
-2370	3,785492E+22	3,785375E+22	9,618122E+21	9,618812E+21	7,570867E+22	1,923693E+22	9,494561E+22
-2369	3,785316E+22	3,785465E+22	9,619081E+21	9,618284E+21	7,570781E+22	1,923736E+22	9,494517E+22
-2368	3,785436E+22	3,785416E+22	9,618814E+21	9,619247E+21	7,570853E+22	1,923806E+22	9,494659E+22
-2367	3,785449E+22	3,785304E+22	9,618774E+21	9,618922E+21	7,570754E+22	1,923770E+22	9,494523E+22
-2366	3,785209E+22	3,785368E+22	9,619889E+21	9,619298E+21	7,570577E+22	1,923919E+22	9,494495E+22
-2365	3,785337E+22	3,785254E+22	9,619404E+21	9,620411E+21	7,570591E+22	1,923981E+22	9,494573E+22
-2364	3,785214E+22	3,785183E+22	9,620127E+21	9,619964E+21	7,570397E+22	1,924009E+22	9,494406E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2363	3,785100E+22	3,785188E+22	9,620902E+21	9,620735E+21	7,570288E+22	1,924164E+22	9,494451E+22
-2362	3,785229E+22	3,785049E+22	9,620378E+21	9,621092E+21	7,570279E+22	1,924147E+22	9,494426E+22
-2361	3,785007E+22	3,785092E+22	9,621452E+21	9,620611E+21	7,570099E+22	1,924206E+22	9,494305E+22
-2360	3,785023E+22	3,785095E+22	9,621328E+21	9,621537E+21	7,570118E+22	1,924286E+22	9,494405E+22
-2359	3,785095E+22	3,784989E+22	9,620754E+21	9,621230E+21	7,570084E+22	1,924198E+22	9,494282E+22
-2358	3,784893E+22	3,785090E+22	9,621490E+21	9,620772E+21	7,569983E+22	1,924226E+22	9,494209E+22
-2357	3,785120E+22	3,785066E+22	9,620588E+21	9,621276E+21	7,570186E+22	1,924186E+22	9,494372E+22
-2356	3,785171E+22	3,785061E+22	9,620385E+21	9,620146E+21	7,570232E+22	1,924053E+22	9,494286E+22
-2355	3,785097E+22	3,785207E+22	9,620578E+21	9,620050E+21	7,570304E+22	1,924063E+22	9,494366E+22
-2354	3,785313E+22	3,785192E+22	9,619346E+21	9,620170E+21	7,570505E+22	1,923952E+22	9,494457E+22
-2353	3,785198E+22	3,785276E+22	9,619727E+21	9,619205E+21	7,570473E+22	1,923893E+22	9,494367E+22
-2352	3,785223E+22	3,785344E+22	9,619686E+21	9,619659E+21	7,570567E+22	1,923934E+22	9,494501E+22
-2351	3,785387E+22	3,785246E+22	9,618948E+21	9,619473E+21	7,570634E+22	1,923842E+22	9,494476E+22
-2350	3,785182E+22	3,785303E+22	9,619920E+21	9,619050E+21	7,570485E+22	1,923897E+22	9,494382E+22
-2349	3,785291E+22	3,785275E+22	9,619675E+21	9,620107E+21	7,570565E+22	1,923978E+22	9,494544E+22
-2348	3,785294E+22	3,785170E+22	9,619672E+21	9,619929E+21	7,570464E+22	1,923960E+22	9,494424E+22
-2347	3,785065E+22	3,785210E+22	9,620681E+21	9,620301E+21	7,570275E+22	1,924098E+22	9,494373E+22
-2346	3,785202E+22	3,785104E+22	9,620229E+21	9,621242E+21	7,570306E+22	1,924147E+22	9,494453E+22
-2345	3,785076E+22	3,785034E+22	9,621091E+21	9,620817E+21	7,570110E+22	1,924191E+22	9,494300E+22
-2344	3,784961E+22	3,785060E+22	9,621869E+21	9,621457E+21	7,570020E+22	1,924333E+22	9,494353E+22
-2343	3,785081E+22	3,784928E+22	9,621300E+21	9,621980E+21	7,570009E+22	1,924328E+22	9,494337E+22
-2342	3,784813E+22	3,784936E+22	9,622262E+21	9,621574E+21	7,569749E+22	1,924384E+22	9,494133E+22
-2341	3,784854E+22	3,784947E+22	9,622105E+21	9,622407E+21	7,569802E+22	1,924451E+22	9,494253E+22
-2340	3,784976E+22	3,784843E+22	9,621532E+21	9,622002E+21	7,569819E+22	1,924353E+22	9,494172E+22
-2339	3,784818E+22	3,784937E+22	9,622091E+21	9,621402E+21	7,569754E+22	1,924349E+22	9,494104E+22
-2338	3,785053E+22	3,784952E+22	9,621146E+21	9,621774E+21	7,570005E+22	1,924292E+22	9,494297E+22
-2337	3,785065E+22	3,784976E+22	9,620976E+21	9,620762E+21	7,570041E+22	1,924174E+22	9,494215E+22
-2336	3,784970E+22	3,785142E+22	9,621179E+21	9,620594E+21	7,570112E+22	1,924177E+22	9,494289E+22
-2335	3,785192E+22	3,785112E+22	9,620022E+21	9,620827E+21	7,570304E+22	1,924085E+22	9,494389E+22
-2334	3,785048E+22	3,785137E+22	9,620472E+21	9,619907E+21	7,570185E+22	1,924038E+22	9,494223E+22
-2333	3,785096E+22	3,785200E+22	9,620532E+21	9,620345E+21	7,570296E+22	1,924088E+22	9,494384E+22
-2332	3,785271E+22	3,785097E+22	9,619855E+21	9,620306E+21	7,570368E+22	1,924016E+22	9,494384E+22
-2331	3,785055E+22	3,785143E+22	9,620638E+21	9,620009E+21	7,570198E+22	1,924065E+22	9,494263E+22
-2330	3,785150E+22	3,785129E+22	9,620369E+21	9,621029E+21	7,570279E+22	1,924140E+22	9,494419E+22
-2329	3,785139E+22	3,785030E+22	9,620493E+21	9,620901E+21	7,570169E+22	1,924139E+22	9,494308E+22
-2328	3,784931E+22	3,785082E+22	9,621590E+21	9,621050E+21	7,570014E+22	1,924264E+22	9,494278E+22
-2327	3,785082E+22	3,784973E+22	9,621229E+21	9,622016E+21	7,570056E+22	1,924325E+22	9,494380E+22
-2326	3,784908E+22	3,784877E+22	9,622090E+21	9,621698E+21	7,569785E+22	1,924379E+22	9,494164E+22
-2325	3,784780E+22	3,784920E+22	9,622819E+21	9,622376E+21	7,569700E+22	1,924519E+22	9,494219E+22
-2324	3,784904E+22	3,784784E+22	9,622208E+21	9,622984E+21	7,569689E+22	1,924519E+22	9,494208E+22
-2323	3,784674E+22	3,784766E+22	9,622945E+21	9,622503E+21	7,569439E+22	1,924545E+22	9,493984E+22
-2322	3,784750E+22	3,784787E+22	9,622743E+21	9,623062E+21	7,569537E+22	1,924581E+22	9,494118E+22
-2321	3,784885E+22	3,784714E+22	9,622239E+21	9,622625E+21	7,569599E+22	1,924486E+22	9,494085E+22
-2320	3,784738E+22	3,784846E+22	9,622761E+21	9,621881E+21	7,569583E+22	1,924464E+22	9,494048E+22
-2319	3,784945E+22	3,784882E+22	9,621811E+21	9,622387E+21	7,569827E+22	1,924420E+22	9,494247E+22
-2318	3,784899E+22	3,784875E+22	9,621632E+21	9,621493E+21	7,569774E+22	1,924313E+22	9,494087E+22
-2317	3,784815E+22	3,785029E+22	9,621907E+21	9,621274E+21	7,569844E+22	1,924318E+22	9,494162E+22
-2316	3,785064E+22	3,784979E+22	9,620837E+21	9,621528E+21	7,570044E+22	1,924237E+22	9,494280E+22
-2315	3,784952E+22	3,784970E+22	9,621150E+21	9,620637E+21	7,569922E+22	1,924179E+22	9,494100E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2314	3,784996E+22	3,785051E+22	9,621198E+21	9,621052E+21	7,570047E+22	1,924225E+22	9,494272E+22
-2313	3,785138E+22	3,784979E+22	9,620570E+21	9,621204E+21	7,570117E+22	1,924177E+22	9,494294E+22
-2312	3,784922E+22	3,785038E+22	9,621359E+21	9,620825E+21	7,569960E+22	1,924218E+22	9,494178E+22
-2311	3,785021E+22	3,785022E+22	9,621205E+21	9,621882E+21	7,570043E+22	1,924309E+22	9,494352E+22
-2310	3,784980E+22	3,784880E+22	9,621448E+21	9,621759E+21	7,569859E+22	1,924321E+22	9,494180E+22
-2309	3,784783E+22	3,784931E+22	9,622673E+21	9,621864E+21	7,569714E+22	1,924454E+22	9,494168E+22
-2308	3,784927E+22	3,784822E+22	9,622341E+21	9,622967E+21	7,569749E+22	1,924531E+22	9,494280E+22
-2307	3,784735E+22	3,784701E+22	9,622946E+21	9,622752E+21	7,569436E+22	1,924570E+22	9,494006E+22
-2306	3,784611E+22	3,784749E+22	9,623569E+21	9,623323E+21	7,569361E+22	1,924689E+22	9,494050E+22
-2305	3,784753E+22	3,784624E+22	9,622965E+21	9,623874E+21	7,569378E+22	1,924684E+22	9,494062E+22
-2304	3,784571E+22	3,784630E+22	9,623651E+21	9,623099E+21	7,569201E+22	1,924675E+22	9,493876E+22
-2303	3,784677E+22	3,784682E+22	9,623467E+21	9,623624E+21	7,569359E+22	1,924709E+22	9,494068E+22
-2302	3,784758E+22	3,784608E+22	9,622966E+21	9,623250E+21	7,569366E+22	1,924622E+22	9,493987E+22
-2301	3,784594E+22	3,784766E+22	9,623488E+21	9,622535E+21	7,569360E+22	1,924602E+22	9,493963E+22
-2300	3,784796E+22	3,784790E+22	9,622570E+21	9,623131E+21	7,569586E+22	1,924570E+22	9,494156E+22
-2299	3,784765E+22	3,784737E+22	9,622233E+21	9,622261E+21	7,569501E+22	1,924449E+22	9,493951E+22
-2298	3,784709E+22	3,784877E+22	9,622520E+21	9,621901E+21	7,569586E+22	1,924442E+22	9,494028E+22
-2297	3,784964E+22	3,784839E+22	9,621539E+21	9,622234E+21	7,569803E+22	1,924377E+22	9,494180E+22
-2296	3,784861E+22	3,784853E+22	9,621813E+21	9,621311E+21	7,569714E+22	1,924312E+22	9,494027E+22
-2295	3,784885E+22	3,784951E+22	9,621880E+21	9,621867E+21	7,569836E+22	1,924375E+22	9,494210E+22
-2294	3,784971E+22	3,784852E+22	9,621351E+21	9,622113E+21	7,569823E+22	1,924346E+22	9,494170E+22
-2293	3,784770E+22	3,784909E+22	9,622281E+21	9,621649E+21	7,569679E+22	1,924393E+22	9,494072E+22
-2292	3,784880E+22	3,784879E+22	9,622277E+21	9,622700E+21	7,569759E+22	1,924498E+22	9,494257E+22
-2291	3,784847E+22	3,784706E+22	9,622399E+21	9,622652E+21	7,569553E+22	1,924505E+22	9,494058E+22
-2290	3,784633E+22	3,784760E+22	9,623577E+21	9,622734E+21	7,569393E+22	1,924631E+22	9,494024E+22
-2289	3,784743E+22	3,784676E+22	9,623227E+21	9,623983E+21	7,569419E+22	1,924721E+22	9,494140E+22
-2288	3,784578E+22	3,784559E+22	9,623729E+21	9,623655E+21	7,569137E+22	1,924738E+22	9,493875E+22
-2287	3,784479E+22	3,784611E+22	9,624346E+21	9,624156E+21	7,569090E+22	1,924850E+22	9,493940E+22
-2286	3,784611E+22	3,784475E+22	9,623803E+21	9,624639E+21	7,569085E+22	1,924844E+22	9,493930E+22
-2285	3,784459E+22	3,784504E+22	9,624524E+21	9,623754E+21	7,568964E+22	1,924828E+22	9,493792E+22
-2284	3,784555E+22	3,784577E+22	9,624338E+21	9,624360E+21	7,569132E+22	1,924870E+22	9,494002E+22
-2283	3,784615E+22	3,784488E+22	9,623592E+21	9,624071E+21	7,569103E+22	1,924766E+22	9,493869E+22
-2282	3,784454E+22	3,784636E+22	9,624064E+21	9,623252E+21	7,569089E+22	1,924732E+22	9,493821E+22
-2281	3,784663E+22	3,784667E+22	9,623199E+21	9,623817E+21	7,569329E+22	1,924702E+22	9,494031E+22
-2280	3,784680E+22	3,784611E+22	9,622833E+21	9,622782E+21	7,569292E+22	1,924562E+22	9,493853E+22
-2279	3,784642E+22	3,784766E+22	9,623150E+21	9,622477E+21	7,569407E+22	1,924563E+22	9,493970E+22
-2278	3,784837E+22	3,784725E+22	9,622237E+21	9,622952E+21	7,569562E+22	1,924519E+22	9,494081E+22
-2277	3,784726E+22	3,784758E+22	9,622561E+21	9,622084E+21	7,569483E+22	1,924465E+22	9,493948E+22
-2276	3,784746E+22	3,784846E+22	9,622740E+21	9,622727E+21	7,569592E+22	1,924547E+22	9,494139E+22
-2275	3,784829E+22	3,784702E+22	9,622150E+21	9,622981E+21	7,569531E+22	1,924513E+22	9,494044E+22
-2274	3,784644E+22	3,784742E+22	9,623178E+21	9,622426E+21	7,569386E+22	1,924560E+22	9,493946E+22
-2273	3,784738E+22	3,784723E+22	9,623265E+21	9,623563E+21	7,569461E+22	1,924683E+22	9,494144E+22
-2272	3,784698E+22	3,784560E+22	9,623299E+21	9,623555E+21	7,569257E+22	1,924685E+22	9,493943E+22
-2271	3,784470E+22	3,784622E+22	9,624405E+21	9,623750E+21	7,569092E+22	1,924816E+22	9,493907E+22
-2270	3,784541E+22	3,784509E+22	9,624096E+21	9,625007E+21	7,569051E+22	1,924910E+22	9,493961E+22
-2269	3,784423E+22	3,784402E+22	9,624636E+21	9,624509E+21	7,568825E+22	1,924914E+22	9,493739E+22
-2268	3,784361E+22	3,784464E+22	9,625297E+21	9,624934E+21	7,568825E+22	1,925023E+22	9,493848E+22
-2267	3,784497E+22	3,784324E+22	9,624591E+21	9,625410E+21	7,568821E+22	1,925000E+22	9,493821E+22
-2266	3,784342E+22	3,784378E+22	9,625228E+21	9,624469E+21	7,568719E+22	1,924970E+22	9,493689E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2265	3,784407E+22	3,784479E+22	9,625015E+21	9,625117E+21	7,568886E+22	1,925013E+22	9,493899E+22
-2264	3,784491E+22	3,784388E+22	9,624175E+21	9,624723E+21	7,568879E+22	1,924890E+22	9,493769E+22
-2263	3,784352E+22	3,784526E+22	9,624648E+21	9,623852E+21	7,568878E+22	1,924850E+22	9,493728E+22
-2262	3,784536E+22	3,784534E+22	9,623910E+21	9,624415E+21	7,569071E+22	1,924832E+22	9,493903E+22
-2261	3,784582E+22	3,784494E+22	9,623610E+21	9,623387E+21	7,569076E+22	1,924700E+22	9,493776E+22
-2260	3,784527E+22	3,784659E+22	9,623943E+21	9,623241E+21	7,569186E+22	1,924718E+22	9,493904E+22
-2259	3,784697E+22	3,784598E+22	9,622893E+21	9,623841E+21	7,569295E+22	1,924673E+22	9,493969E+22
-2258	3,784596E+22	3,784612E+22	9,623241E+21	9,622886E+21	7,569208E+22	1,924613E+22	9,493820E+22
-2257	3,784607E+22	3,784711E+22	9,623552E+21	9,623491E+21	7,569319E+22	1,924704E+22	9,494023E+22
-2256	3,784723E+22	3,784565E+22	9,622976E+21	9,623678E+21	7,569288E+22	1,924665E+22	9,493954E+22
-2255	3,784527E+22	3,784607E+22	9,624047E+21	9,623229E+21	7,569134E+22	1,924728E+22	9,493862E+22
-2254	3,784545E+22	3,784582E+22	9,624209E+21	9,624523E+21	7,569127E+22	1,924873E+22	9,494000E+22
-2253	3,784512E+22	3,784421E+22	9,624254E+21	9,624559E+21	7,568933E+22	1,924881E+22	9,493814E+22
-2252	3,784301E+22	3,784468E+22	9,625370E+21	9,624782E+21	7,568769E+22	1,925015E+22	9,493784E+22
-2251	3,784391E+22	3,784326E+22	9,624937E+21	9,625962E+21	7,568717E+22	1,925090E+22	9,493807E+22
-2250	3,784316E+22	3,784222E+22	9,625475E+21	9,625287E+21	7,568538E+22	1,925076E+22	9,493614E+22
-2249	3,784247E+22	3,784330E+22	9,626153E+21	9,625698E+21	7,568577E+22	1,925185E+22	9,493762E+22
-2248	3,784381E+22	3,784218E+22	9,625312E+21	9,626142E+21	7,568599E+22	1,925145E+22	9,493744E+22
-2247	3,784210E+22	3,784283E+22	9,625868E+21	9,625233E+21	7,568493E+22	1,925110E+22	9,493603E+22
-2246	3,784233E+22	3,784359E+22	9,625727E+21	9,625831E+21	7,568592E+22	1,925156E+22	9,493748E+22
-2245	3,784358E+22	3,784268E+22	9,624934E+21	9,625310E+21	7,568626E+22	1,925024E+22	9,493651E+22
-2244	3,784257E+22	3,784400E+22	9,625430E+21	9,624468E+21	7,568656E+22	1,924990E+22	9,493646E+22
-2243	3,784431E+22	3,784391E+22	9,624555E+21	9,625094E+21	7,568822E+22	1,924965E+22	9,493787E+22
-2242	3,784476E+22	3,784367E+22	9,624206E+21	9,624105E+21	7,568843E+22	1,924831E+22	9,493674E+22
-2241	3,784401E+22	3,784558E+22	9,624560E+21	9,624025E+21	7,568959E+22	1,924858E+22	9,493818E+22
-2240	3,784584E+22	3,784490E+22	9,623511E+21	9,624553E+21	7,569075E+22	1,924806E+22	9,493881E+22
-2239	3,784494E+22	3,784498E+22	9,623937E+21	9,623593E+21	7,568992E+22	1,924753E+22	9,493745E+22
-2238	3,784459E+22	3,784569E+22	9,624469E+21	9,624219E+21	7,569028E+22	1,924869E+22	9,493897E+22
-2237	3,784577E+22	3,784431E+22	9,623991E+21	9,624497E+21	7,569008E+22	1,924849E+22	9,493857E+22
-2236	3,784361E+22	3,784465E+22	9,625060E+21	9,624264E+21	7,568826E+22	1,924932E+22	9,493759E+22
-2235	3,784352E+22	3,784401E+22	9,625075E+21	9,625640E+21	7,568753E+22	1,925072E+22	9,493824E+22
-2234	3,784355E+22	3,784225E+22	9,625106E+21	9,625560E+21	7,568581E+22	1,925067E+22	9,493647E+22
-2233	3,784166E+22	3,784298E+22	9,626245E+21	9,625652E+21	7,568464E+22	1,925190E+22	9,493654E+22
-2232	3,784299E+22	3,784177E+22	9,625772E+21	9,626692E+21	7,568476E+22	1,925246E+22	9,493722E+22
-2231	3,784218E+22	3,784108E+22	9,626261E+21	9,626019E+21	7,568326E+22	1,925228E+22	9,493554E+22
-2230	3,784074E+22	3,784227E+22	9,627001E+21	9,626481E+21	7,568300E+22	1,925348E+22	9,493648E+22
-2229	3,784214E+22	3,784125E+22	9,626164E+21	9,626907E+21	7,568339E+22	1,925307E+22	9,493646E+22
-2228	3,784055E+22	3,784165E+22	9,626703E+21	9,626014E+21	7,568220E+22	1,925272E+22	9,493492E+22
-2227	3,784088E+22	3,784201E+22	9,626436E+21	9,626551E+21	7,568289E+22	1,925299E+22	9,493588E+22
-2226	3,784265E+22	3,784099E+22	9,625612E+21	9,625946E+21	7,568363E+22	1,925156E+22	9,493519E+22
-2225	3,784158E+22	3,784271E+22	9,626067E+21	9,625153E+21	7,568429E+22	1,925122E+22	9,493551E+22
-2224	3,784339E+22	3,784288E+22	9,625074E+21	9,625809E+21	7,568627E+22	1,925088E+22	9,493715E+22
-2223	3,784375E+22	3,784274E+22	9,624698E+21	9,624830E+21	7,568649E+22	1,924953E+22	9,493602E+22
-2222	3,784255E+22	3,784447E+22	9,625256E+21	9,624700E+21	7,568702E+22	1,924996E+22	9,493698E+22
-2221	3,784463E+22	3,784380E+22	9,624372E+21	9,625142E+21	7,568844E+22	1,924951E+22	9,493795E+22
-2220	3,784378E+22	3,784372E+22	9,624904E+21	9,624334E+21	7,568750E+22	1,924924E+22	9,493674E+22
-2219	3,784301E+22	3,784413E+22	9,625364E+21	9,625103E+21	7,568714E+22	1,925047E+22	9,493761E+22
-2218	3,784417E+22	3,784265E+22	9,624853E+21	9,625484E+21	7,568683E+22	1,925034E+22	9,493716E+22
-2217	3,784194E+22	3,784310E+22	9,625903E+21	9,625300E+21	7,568505E+22	1,925120E+22	9,493625E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2216	3,784219E+22	3,784238E+22	9,625865E+21	9,626567E+21	7,568457E+22	1,925243E+22	9,493700E+22
-2215	3,784247E+22	3,784075E+22	9,625910E+21	9,626391E+21	7,568322E+22	1,925230E+22	9,493552E+22
-2214	3,784026E+22	3,784150E+22	9,627216E+21	9,626440E+21	7,568176E+22	1,925366E+22	9,493542E+22
-2213	3,784154E+22	3,784064E+22	9,626801E+21	9,627481E+21	7,568218E+22	1,925428E+22	9,493646E+22
-2212	3,784054E+22	3,784003E+22	9,627228E+21	9,626975E+21	7,568056E+22	1,925420E+22	9,493477E+22
-2211	3,783879E+22	3,784074E+22	9,627796E+21	9,627402E+21	7,567953E+22	1,925520E+22	9,493473E+22
-2210	3,784060E+22	3,783952E+22	9,626908E+21	9,627695E+21	7,568012E+22	1,925460E+22	9,493472E+22
-2209	3,783938E+22	3,784009E+22	9,627392E+21	9,626697E+21	7,567946E+22	1,925409E+22	9,493355E+22
-2208	3,784012E+22	3,784056E+22	9,627023E+21	9,627141E+21	7,568068E+22	1,925416E+22	9,493485E+22
-2207	3,784191E+22	3,783998E+22	9,626114E+21	9,626561E+21	7,568189E+22	1,925267E+22	9,493456E+22
-2206	3,784029E+22	3,784183E+22	9,626654E+21	9,625820E+21	7,568212E+22	1,925247E+22	9,493459E+22
-2205	3,784215E+22	3,784216E+22	9,625768E+21	9,626434E+21	7,568430E+22	1,925220E+22	9,493651E+22
-2204	3,784257E+22	3,784184E+22	9,625474E+21	9,625527E+21	7,568441E+22	1,925100E+22	9,493541E+22
-2203	3,784117E+22	3,784303E+22	9,626059E+21	9,625381E+21	7,568420E+22	1,925144E+22	9,493564E+22
-2202	3,784347E+22	3,784217E+22	9,625262E+21	9,625870E+21	7,568564E+22	1,925113E+22	9,493677E+22
-2201	3,784236E+22	3,784227E+22	9,625790E+21	9,625236E+21	7,568463E+22	1,925103E+22	9,493566E+22
-2200	3,784154E+22	3,784265E+22	9,626140E+21	9,626099E+21	7,568419E+22	1,925224E+22	9,493643E+22
-2199	3,784271E+22	3,784117E+22	9,625579E+21	9,626475E+21	7,568388E+22	1,925205E+22	9,493593E+22
-2198	3,784027E+22	3,784149E+22	9,626777E+21	9,626210E+21	7,568175E+22	1,925299E+22	9,493474E+22
-2197	3,784090E+22	3,784098E+22	9,626868E+21	9,627340E+21	7,568188E+22	1,925421E+22	9,493609E+22
-2196	3,784122E+22	3,783942E+22	9,626957E+21	9,627246E+21	7,568065E+22	1,925420E+22	9,493485E+22
-2195	3,783854E+22	3,784004E+22	9,628172E+21	9,627356E+21	7,567859E+22	1,925553E+22	9,493411E+22
-2194	3,783986E+22	3,783913E+22	9,627699E+21	9,628413E+21	7,567899E+22	1,925611E+22	9,493510E+22
-2193	3,783878E+22	3,783861E+22	9,628045E+21	9,627894E+21	7,567740E+22	1,925594E+22	9,493334E+22
-2192	3,783745E+22	3,783921E+22	9,628465E+21	9,628183E+21	7,567667E+22	1,925665E+22	9,493331E+22
-2191	3,783963E+22	3,783806E+22	9,627506E+21	9,628331E+21	7,567769E+22	1,925584E+22	9,493353E+22
-2190	3,783828E+22	3,783873E+22	9,628085E+21	9,627306E+21	7,567700E+22	1,925539E+22	9,493240E+22
-2189	3,783910E+22	3,783965E+22	9,627745E+21	9,627746E+21	7,567876E+22	1,925549E+22	9,493425E+22
-2188	3,784072E+22	3,783923E+22	9,626810E+21	9,627317E+21	7,567995E+22	1,925413E+22	9,493408E+22
-2187	3,783881E+22	3,784067E+22	9,627298E+21	9,626551E+21	7,567948E+22	1,925385E+22	9,493333E+22
-2186	3,784097E+22	3,784077E+22	9,626493E+21	9,627065E+21	7,568174E+22	1,925356E+22	9,493530E+22
-2185	3,784147E+22	3,784056E+22	9,626248E+21	9,626174E+21	7,568203E+22	1,925242E+22	9,493445E+22
-2184	3,784018E+22	3,784164E+22	9,626789E+21	9,626085E+21	7,568182E+22	1,925287E+22	9,493470E+22
-2183	3,784223E+22	3,784097E+22	9,625952E+21	9,626687E+21	7,568320E+22	1,925264E+22	9,493584E+22
-2182	3,784064E+22	3,784098E+22	9,626588E+21	9,626183E+21	7,568162E+22	1,925277E+22	9,493439E+22
-2181	3,783994E+22	3,784136E+22	9,627034E+21	9,626992E+21	7,568130E+22	1,925403E+22	9,493532E+22
-2180	3,784129E+22	3,783982E+22	9,626533E+21	9,627425E+21	7,568111E+22	1,925396E+22	9,493507E+22
-2179	3,783878E+22	3,783967E+22	9,627728E+21	9,627085E+21	7,567845E+22	1,925481E+22	9,493326E+22
-2178	3,783958E+22	3,783919E+22	9,627889E+21	9,628211E+21	7,567878E+22	1,925610E+22	9,493488E+22
-2177	3,783964E+22	3,783804E+22	9,627924E+21	9,628231E+21	7,567768E+22	1,925615E+22	9,493384E+22
-2176	3,783691E+22	3,783856E+22	9,628981E+21	9,628350E+21	7,567547E+22	1,925733E+22	9,493280E+22
-2175	3,783828E+22	3,783768E+22	9,628415E+21	9,629278E+21	7,567596E+22	1,925769E+22	9,493365E+22
-2174	3,783719E+22	3,783703E+22	9,628844E+21	9,628642E+21	7,567422E+22	1,925749E+22	9,493171E+22
-2173	3,783631E+22	3,783785E+22	9,629298E+21	9,628768E+21	7,567416E+22	1,925807E+22	9,493223E+22
-2172	3,783862E+22	3,783698E+22	9,628303E+21	9,629012E+21	7,567560E+22	1,925731E+22	9,493291E+22
-2171	3,783692E+22	3,783754E+22	9,628756E+21	9,628032E+21	7,567447E+22	1,925679E+22	9,493126E+22
-2170	3,783790E+22	3,783852E+22	9,628413E+21	9,628478E+21	7,567642E+22	1,925689E+22	9,493331E+22
-2169	3,783943E+22	3,783827E+22	9,627471E+21	9,628032E+21	7,567770E+22	1,925550E+22	9,493320E+22
-2168	3,783780E+22	3,783946E+22	9,627909E+21	9,627206E+21	7,567727E+22	1,925511E+22	9,493238E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2167	3,784005E+22	3,783954E+22	9,627130E+21	9,627635E+21	7,567959E+22	1,925477E+22	9,493435E+22
-2166	3,784016E+22	3,783928E+22	9,627045E+21	9,626884E+21	7,567944E+22	1,925393E+22	9,493337E+22
-2165	3,783880E+22	3,784056E+22	9,627631E+21	9,626896E+21	7,567936E+22	1,925453E+22	9,493388E+22
-2164	3,784064E+22	3,783981E+22	9,626783E+21	9,627676E+21	7,568045E+22	1,925446E+22	9,493491E+22
-2163	3,783888E+22	3,783927E+22	9,627397E+21	9,627147E+21	7,567815E+22	1,925454E+22	9,493269E+22
-2162	3,783868E+22	3,783949E+22	9,627925E+21	9,627845E+21	7,567816E+22	1,925577E+22	9,493393E+22
-2161	3,784004E+22	3,783822E+22	9,627484E+21	9,628256E+21	7,567826E+22	1,925574E+22	9,493400E+22
-2160	3,783762E+22	3,783815E+22	9,628606E+21	9,627967E+21	7,567577E+22	1,925657E+22	9,493235E+22
-2159	3,783813E+22	3,783793E+22	9,628708E+21	9,629085E+21	7,567606E+22	1,925779E+22	9,493385E+22
-2158	3,783773E+22	3,783675E+22	9,628830E+21	9,629185E+21	7,567448E+22	1,925802E+22	9,493250E+22
-2157	3,783520E+22	3,783727E+22	9,629907E+21	9,629191E+21	7,567247E+22	1,925910E+22	9,493157E+22
-2156	3,783676E+22	3,783632E+22	9,629320E+21	9,630108E+21	7,567308E+22	1,925943E+22	9,493251E+22
-2155	3,783575E+22	3,783527E+22	9,629685E+21	9,629405E+21	7,567102E+22	1,925909E+22	9,493011E+22
-2154	3,783524E+22	3,783621E+22	9,630111E+21	9,629518E+21	7,567145E+22	1,925963E+22	9,493108E+22
-2153	3,783735E+22	3,783589E+22	9,629028E+21	9,629835E+21	7,567324E+22	1,925886E+22	9,493210E+22
-2152	3,783578E+22	3,783641E+22	9,629298E+21	9,628841E+21	7,567219E+22	1,925814E+22	9,493033E+22
-2151	3,783681E+22	3,783745E+22	9,628921E+21	9,629100E+21	7,567426E+22	1,925802E+22	9,493228E+22
-2150	3,783825E+22	3,783715E+22	9,628139E+21	9,628599E+21	7,567539E+22	1,925674E+22	9,493213E+22
-2149	3,783681E+22	3,783838E+22	9,628681E+21	9,627710E+21	7,567519E+22	1,925639E+22	9,493158E+22
-2148	3,783884E+22	3,783860E+22	9,627934E+21	9,628335E+21	7,567744E+22	1,925627E+22	9,493371E+22
-2147	3,783854E+22	3,783789E+22	9,627798E+21	9,627735E+21	7,567644E+22	1,925553E+22	9,493197E+22
-2146	3,783734E+22	3,783898E+22	9,628414E+21	9,627807E+21	7,567632E+22	1,925622E+22	9,493254E+22
-2145	3,783919E+22	3,783839E+22	9,627597E+21	9,628593E+21	7,567758E+22	1,925619E+22	9,493377E+22
-2144	3,783779E+22	3,783759E+22	9,628153E+21	9,628005E+21	7,567538E+22	1,925616E+22	9,493153E+22
-2143	3,783766E+22	3,783795E+22	9,628734E+21	9,628580E+21	7,567561E+22	1,925731E+22	9,493292E+22
-2142	3,783857E+22	3,783687E+22	9,628471E+21	9,629122E+21	7,567544E+22	1,925759E+22	9,493303E+22
-2141	3,783593E+22	3,783701E+22	9,629631E+21	9,628903E+21	7,567294E+22	1,925853E+22	9,493147E+22
-2140	3,783618E+22	3,783676E+22	9,629704E+21	9,630122E+21	7,567294E+22	1,925983E+22	9,493277E+22
-2139	3,783569E+22	3,783494E+22	9,629773E+21	9,630166E+21	7,567063E+22	1,925994E+22	9,493057E+22
-2138	3,783377E+22	3,783529E+22	9,630832E+21	9,630045E+21	7,566905E+22	1,926088E+22	9,492993E+22
-2137	3,783548E+22	3,783469E+22	9,630194E+21	9,630905E+21	7,567018E+22	1,926110E+22	9,493128E+22
-2136	3,783474E+22	3,783380E+22	9,630356E+21	9,630226E+21	7,566854E+22	1,926058E+22	9,492912E+22
-2135	3,783419E+22	3,783513E+22	9,630659E+21	9,630238E+21	7,566932E+22	1,926090E+22	9,493022E+22
-2134	3,783597E+22	3,783498E+22	9,629676E+21	9,630550E+21	7,567095E+22	1,926023E+22	9,493118E+22
-2133	3,783465E+22	3,783560E+22	9,629983E+21	9,629423E+21	7,567025E+22	1,925941E+22	9,492966E+22
-2132	3,783569E+22	3,783654E+22	9,629645E+21	9,629645E+21	7,567223E+22	1,925929E+22	9,493152E+22
-2131	3,783693E+22	3,783571E+22	9,628902E+21	9,629197E+21	7,567264E+22	1,925810E+22	9,493074E+22
-2130	3,783568E+22	3,783688E+22	9,629464E+21	9,628447E+21	7,567256E+22	1,925791E+22	9,493047E+22
-2129	3,783732E+22	3,783737E+22	9,628690E+21	9,629217E+21	7,567469E+22	1,925791E+22	9,493260E+22
-2128	3,783722E+22	3,783640E+22	9,628417E+21	9,628688E+21	7,567362E+22	1,925711E+22	9,493073E+22
-2127	3,783622E+22	3,783746E+22	9,629026E+21	9,628570E+21	7,567368E+22	1,925760E+22	9,493128E+22
-2126	3,783797E+22	3,783696E+22	9,628427E+21	9,629325E+21	7,567493E+22	1,925775E+22	9,493268E+22
-2125	3,783672E+22	3,783638E+22	9,629088E+21	9,628714E+21	7,567310E+22	1,925780E+22	9,493090E+22
-2124	3,783618E+22	3,783696E+22	9,629722E+21	9,629451E+21	7,567314E+22	1,925917E+22	9,493231E+22
-2123	3,783656E+22	3,783544E+22	9,629467E+21	9,630147E+21	7,567199E+22	1,925961E+22	9,493161E+22
-2122	3,783410E+22	3,783529E+22	9,630642E+21	9,629970E+21	7,566939E+22	1,926061E+22	9,493000E+22
-2121	3,783432E+22	3,783512E+22	9,630687E+21	9,631129E+21	7,566944E+22	1,926182E+22	9,493126E+22
-2120	3,783438E+22	3,783297E+22	9,630590E+21	9,631103E+21	7,566735E+22	1,926169E+22	9,492904E+22
-2119	3,783275E+22	3,783351E+22	9,631556E+21	9,630798E+21	7,566626E+22	1,926235E+22	9,492862E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2118	3,783424E+22	3,783339E+22	9,630988E+21	9,631716E+21	7,566763E+22	1,926270E+22	9,493033E+22
-2117	3,783350E+22	3,783286E+22	9,631087E+21	9,630976E+21	7,566636E+22	1,926206E+22	9,492842E+22
-2116	3,783282E+22	3,783436E+22	9,631365E+21	9,630962E+21	7,566717E+22	1,926233E+22	9,492950E+22
-2115	3,783449E+22	3,783367E+22	9,630407E+21	9,631172E+21	7,566816E+22	1,926158E+22	9,492974E+22
-2114	3,783356E+22	3,783412E+22	9,630757E+21	9,629989E+21	7,566768E+22	1,926075E+22	9,492843E+22
-2113	3,783446E+22	3,783535E+22	9,630428E+21	9,630253E+21	7,566981E+22	1,926068E+22	9,493049E+22
-2112	3,783579E+22	3,783436E+22	9,629519E+21	9,629971E+21	7,567015E+22	1,925949E+22	9,492964E+22
-2111	3,783450E+22	3,783562E+22	9,629993E+21	9,629209E+21	7,567012E+22	1,925920E+22	9,492933E+22
-2110	3,783593E+22	3,783619E+22	9,629371E+21	9,630038E+21	7,567212E+22	1,925941E+22	9,493153E+22
-2109	3,783609E+22	3,783528E+22	9,629160E+21	9,629414E+21	7,567137E+22	1,925857E+22	9,492995E+22
-2108	3,783513E+22	3,783636E+22	9,629861E+21	9,629286E+21	7,567149E+22	1,925915E+22	9,493064E+22
-2107	3,783654E+22	3,783542E+22	9,629398E+21	9,630121E+21	7,567196E+22	1,925952E+22	9,493148E+22
-2106	3,783525E+22	3,783486E+22	9,630116E+21	9,629689E+21	7,567011E+22	1,925980E+22	9,492992E+22
-2105	3,783420E+22	3,783561E+22	9,630741E+21	9,630526E+21	7,566981E+22	1,926127E+22	9,493108E+22
-2104	3,783477E+22	3,783363E+22	9,630337E+21	9,631274E+21	7,566841E+22	1,926161E+22	9,493002E+22
-2103	3,783268E+22	3,783334E+22	9,631437E+21	9,630866E+21	7,566602E+22	1,926230E+22	9,492832E+22
-2102	3,783291E+22	3,783333E+22	9,631592E+21	9,631937E+21	7,566625E+22	1,926353E+22	9,492978E+22
-2101	3,783329E+22	3,783160E+22	9,631461E+21	9,631838E+21	7,566489E+22	1,926330E+22	9,492819E+22
-2100	3,783151E+22	3,783253E+22	9,632346E+21	9,631575E+21	7,566404E+22	1,926392E+22	9,492796E+22
-2099	3,783257E+22	3,783218E+22	9,631794E+21	9,632528E+21	7,566475E+22	1,926432E+22	9,492907E+22
-2098	3,783212E+22	3,783165E+22	9,631879E+21	9,631760E+21	7,566377E+22	1,926364E+22	9,492741E+22
-2097	3,783134E+22	3,783323E+22	9,632159E+21	9,631625E+21	7,566458E+22	1,926378E+22	9,492836E+22
-2096	3,783341E+22	3,783217E+22	9,631076E+21	9,631826E+21	7,566558E+22	1,926290E+22	9,492848E+22
-2095	3,783265E+22	3,783263E+22	9,631361E+21	9,630577E+21	7,566528E+22	1,926194E+22	9,492722E+22
-2094	3,783314E+22	3,783418E+22	9,631109E+21	9,630999E+21	7,566732E+22	1,926211E+22	9,492943E+22
-2093	3,783453E+22	3,783340E+22	9,630152E+21	9,630758E+21	7,566793E+22	1,926091E+22	9,492884E+22
-2092	3,783326E+22	3,783465E+22	9,630618E+21	9,629992E+21	7,566790E+22	1,926061E+22	9,492851E+22
-2091	3,783460E+22	3,783471E+22	9,630143E+21	9,630761E+21	7,566930E+22	1,926090E+22	9,493021E+22
-2090	3,783510E+22	3,783376E+22	9,630032E+21	9,630127E+21	7,566887E+22	1,926016E+22	9,492903E+22
-2089	3,783379E+22	3,783514E+22	9,630829E+21	9,630068E+21	7,566893E+22	1,926090E+22	9,492982E+22
-2088	3,783508E+22	3,783397E+22	9,630265E+21	9,631092E+21	7,566905E+22	1,926136E+22	9,493041E+22
-2087	3,783365E+22	3,783333E+22	9,630939E+21	9,630658E+21	7,566698E+22	1,926160E+22	9,492858E+22
-2086	3,783238E+22	3,783411E+22	9,631681E+21	9,631529E+21	7,566648E+22	1,926321E+22	9,492969E+22
-2085	3,783328E+22	3,783206E+22	9,631260E+21	9,632143E+21	7,566534E+22	1,926340E+22	9,492874E+22
-2084	3,783137E+22	3,783181E+22	9,632345E+21	9,631679E+21	7,566318E+22	1,926402E+22	9,492721E+22
-2083	3,783144E+22	3,783156E+22	9,632569E+21	9,632782E+21	7,566299E+22	1,926535E+22	9,492835E+22
-2082	3,783184E+22	3,783014E+22	9,632398E+21	9,632769E+21	7,566198E+22	1,926517E+22	9,492715E+22
-2081	3,782976E+22	3,783144E+22	9,633227E+21	9,632503E+21	7,566121E+22	1,926573E+22	9,492694E+22
-2080	3,783110E+22	3,783071E+22	9,632521E+21	9,633397E+21	7,566181E+22	1,926592E+22	9,492773E+22
-2079	3,783098E+22	3,783014E+22	9,632523E+21	9,632385E+21	7,566112E+22	1,926491E+22	9,492603E+22
-2078	3,783016E+22	3,783193E+22	9,632887E+21	9,632210E+21	7,566209E+22	1,926510E+22	9,492718E+22
-2077	3,783236E+22	3,783113E+22	9,631747E+21	9,632409E+21	7,566349E+22	1,926416E+22	9,492764E+22
-2076	3,783149E+22	3,783180E+22	9,631959E+21	9,631277E+21	7,566329E+22	1,926324E+22	9,492652E+22
-2075	3,783166E+22	3,783294E+22	9,631789E+21	9,631775E+21	7,566459E+22	1,926356E+22	9,492816E+22
-2074	3,783334E+22	3,783216E+22	9,630876E+21	9,631542E+21	7,566551E+22	1,926242E+22	9,492793E+22
-2073	3,783206E+22	3,783349E+22	9,631400E+21	9,630695E+21	7,566555E+22	1,926210E+22	9,492765E+22
-2072	3,783363E+22	3,783317E+22	9,630906E+21	9,631494E+21	7,566680E+22	1,926240E+22	9,492920E+22
-2071	3,783412E+22	3,783229E+22	9,630810E+21	9,630869E+21	7,566641E+22	1,926168E+22	9,492809E+22
-2070	3,783216E+22	3,783389E+22	9,631736E+21	9,630980E+21	7,566605E+22	1,926272E+22	9,492877E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2069	3,783336E+22	3,783277E+22	9,631158E+21	9,632048E+21	7,566613E+22	1,926321E+22	9,492933E+22
-2068	3,783201E+22	3,783191E+22	9,631819E+21	9,631604E+21	7,566392E+22	1,926342E+22	9,492734E+22
-2067	3,783061E+22	3,783212E+22	9,632683E+21	9,632415E+21	7,566273E+22	1,926510E+22	9,492783E+22
-2066	3,783191E+22	3,783024E+22	9,632274E+21	9,633027E+21	7,566215E+22	1,926530E+22	9,492745E+22
-2065	3,782985E+22	3,783037E+22	9,633326E+21	9,632589E+21	7,566022E+22	1,926591E+22	9,492613E+22
-2064	3,782995E+22	3,783004E+22	9,633391E+21	9,633788E+21	7,565999E+22	1,926718E+22	9,492716E+22
-2063	3,783044E+22	3,782873E+22	9,633131E+21	9,633655E+21	7,565917E+22	1,926679E+22	9,492596E+22
-2062	3,782821E+22	3,783023E+22	9,634028E+21	9,633314E+21	7,565844E+22	1,926734E+22	9,492578E+22
-2061	3,782989E+22	3,782955E+22	9,633275E+21	9,634022E+21	7,565944E+22	1,926730E+22	9,492673E+22
-2060	3,782992E+22	3,782899E+22	9,633235E+21	9,632973E+21	7,565891E+22	1,926621E+22	9,492512E+22
-2059	3,782879E+22	3,783048E+22	9,633667E+21	9,632891E+21	7,565927E+22	1,926656E+22	9,492583E+22
-2058	3,783100E+22	3,782995E+22	9,632474E+21	9,633211E+21	7,566095E+22	1,926568E+22	9,492663E+22
-2057	3,783002E+22	3,783076E+22	9,632655E+21	9,632102E+21	7,566078E+22	1,926476E+22	9,492554E+22
-2056	3,783056E+22	3,783144E+22	9,632404E+21	9,632560E+21	7,566201E+22	1,926496E+22	9,492697E+22
-2055	3,783252E+22	3,783068E+22	9,631506E+21	9,632123E+21	7,566320E+22	1,926363E+22	9,492683E+22
-2054	3,783106E+22	3,783232E+22	9,632185E+21	9,631317E+21	7,566338E+22	1,926350E+22	9,492688E+22
-2053	3,783249E+22	3,783218E+22	9,631708E+21	9,632153E+21	7,566467E+22	1,926386E+22	9,492853E+22
-2052	3,783260E+22	3,783139E+22	9,631614E+21	9,631716E+21	7,566398E+22	1,926333E+22	9,492731E+22
-2051	3,783021E+22	3,783240E+22	9,632688E+21	9,631962E+21	7,566260E+22	1,926465E+22	9,492725E+22
-2050	3,783156E+22	3,783116E+22	9,632150E+21	9,633045E+21	7,566272E+22	1,926520E+22	9,492791E+22
-2049	3,783034E+22	3,783025E+22	9,632835E+21	9,632558E+21	7,566059E+22	1,926539E+22	9,492598E+22
-2048	3,782932E+22	3,783003E+22	9,633606E+21	9,633384E+21	7,565935E+22	1,926699E+22	9,492634E+22
-2047	3,783067E+22	3,782844E+22	9,633135E+21	9,633955E+21	7,565911E+22	1,926709E+22	9,492620E+22
-2046	3,782824E+22	3,782908E+22	9,634199E+21	9,633596E+21	7,565732E+22	1,926780E+22	9,492511E+22
-2045	3,782842E+22	3,782890E+22	9,634198E+21	9,634679E+21	7,565732E+22	1,926888E+22	9,492620E+22
-2044	3,782906E+22	3,782762E+22	9,633903E+21	9,634416E+21	7,565668E+22	1,926832E+22	9,492500E+22
-2043	3,782674E+22	3,782865E+22	9,634907E+21	9,633974E+21	7,565539E+22	1,926888E+22	9,492427E+22
-2042	3,782862E+22	3,782819E+22	9,634140E+21	9,634663E+21	7,565681E+22	1,926880E+22	9,492561E+22
-2041	3,782851E+22	3,782788E+22	9,634030E+21	9,633699E+21	7,565639E+22	1,926773E+22	9,492412E+22
-2040	3,782747E+22	3,782908E+22	9,634288E+21	9,633734E+21	7,565655E+22	1,926802E+22	9,492457E+22
-2039	3,782991E+22	3,782864E+22	9,633032E+21	9,633962E+21	7,565854E+22	1,926699E+22	9,492554E+22
-2038	3,782890E+22	3,782964E+22	9,633275E+21	9,632788E+21	7,565854E+22	1,926606E+22	9,492460E+22
-2037	3,782973E+22	3,783040E+22	9,633047E+21	9,633098E+21	7,566012E+22	1,926614E+22	9,492627E+22
-2036	3,783169E+22	3,782969E+22	9,632203E+21	9,632689E+21	7,566138E+22	1,926489E+22	9,492627E+22
-2035	3,782957E+22	3,783100E+22	9,633069E+21	9,632084E+21	7,566057E+22	1,926515E+22	9,492572E+22
-2034	3,783071E+22	3,783105E+22	9,632624E+21	9,633086E+21	7,566175E+22	1,926571E+22	9,492746E+22
-2033	3,783067E+22	3,783006E+22	9,632553E+21	9,632748E+21	7,566073E+22	1,926530E+22	9,492603E+22
-2032	3,782862E+22	3,783036E+22	9,633552E+21	9,632992E+21	7,565898E+22	1,926654E+22	9,492553E+22
-2031	3,783033E+22	3,782910E+22	9,633001E+21	9,633910E+21	7,565944E+22	1,926691E+22	9,492635E+22
-2030	3,782906E+22	3,782857E+22	9,633742E+21	9,633447E+21	7,565763E+22	1,926719E+22	9,492482E+22
-2029	3,782808E+22	3,782872E+22	9,634451E+21	9,634258E+21	7,565680E+22	1,926871E+22	9,492551E+22
-2028	3,782923E+22	3,782741E+22	9,633961E+21	9,634864E+21	7,565664E+22	1,926882E+22	9,492546E+22
-2027	3,782645E+22	3,782769E+22	9,635167E+21	9,634527E+21	7,565415E+22	1,926969E+22	9,492384E+22
-2026	3,782674E+22	3,782762E+22	9,635177E+21	9,635487E+21	7,565437E+22	1,927066E+22	9,492503E+22
-2025	3,782750E+22	3,782628E+22	9,634875E+21	9,635175E+21	7,565378E+22	1,927005E+22	9,492383E+22
-2024	3,782549E+22	3,782681E+22	9,635731E+21	9,634773E+21	7,565230E+22	1,927050E+22	9,492280E+22
-2023	3,782734E+22	3,782659E+22	9,634840E+21	9,635428E+21	7,565393E+22	1,927027E+22	9,492420E+22
-2022	3,782707E+22	3,782673E+22	9,634677E+21	9,634555E+21	7,565380E+22	1,926923E+22	9,492303E+22
-2021	3,782638E+22	3,782795E+22	9,634829E+21	9,634452E+21	7,565433E+22	1,926928E+22	9,492361E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-2020	3,782898E+22	3,782763E+22	9,633590E+21	9,634535E+21	7,565661E+22	1,926812E+22	9,492474E+22
-2019	3,782787E+22	3,782835E+22	9,634007E+21	9,633344E+21	7,565622E+22	1,926735E+22	9,492357E+22
-2018	3,782859E+22	3,782939E+22	9,633856E+21	9,633672E+21	7,565798E+22	1,926753E+22	9,492551E+22
-2017	3,783019E+22	3,782882E+22	9,633053E+21	9,633459E+21	7,565901E+22	1,926651E+22	9,492552E+22
-2016	3,782801E+22	3,782948E+22	9,633851E+21	9,633055E+21	7,565749E+22	1,926691E+22	9,492439E+22
-2015	3,782915E+22	3,782940E+22	9,633407E+21	9,634009E+21	7,565856E+22	1,926742E+22	9,492597E+22
-2014	3,782917E+22	3,782849E+22	9,633397E+21	9,633682E+21	7,565766E+22	1,926708E+22	9,492474E+22
-2013	3,782754E+22	3,782869E+22	9,634364E+21	9,633801E+21	7,565623E+22	1,926816E+22	9,492440E+22
-2012	3,782929E+22	3,782765E+22	9,633852E+21	9,634723E+21	7,565694E+22	1,926857E+22	9,492551E+22
-2011	3,782748E+22	3,782705E+22	9,634728E+21	9,634409E+21	7,565452E+22	1,926914E+22	9,492366E+22
-2010	3,782625E+22	3,782757E+22	9,635456E+21	9,635251E+21	7,565382E+22	1,927071E+22	9,492453E+22
-2009	3,782735E+22	3,782619E+22	9,634999E+21	9,635857E+21	7,565354E+22	1,927086E+22	9,492439E+22
-2008	3,782485E+22	3,782581E+22	9,636110E+21	9,635457E+21	7,565066E+22	1,927157E+22	9,492222E+22
-2007	3,782542E+22	3,782580E+22	9,636049E+21	9,636227E+21	7,565121E+22	1,927228E+22	9,492349E+22
-2006	3,782612E+22	3,782478E+22	9,635690E+21	9,635952E+21	7,565090E+22	1,927164E+22	9,492254E+22
-2005	3,782425E+22	3,782553E+22	9,636362E+21	9,635539E+21	7,564978E+22	1,927190E+22	9,492168E+22
-2004	3,782615E+22	3,782558E+22	9,635394E+21	9,636176E+21	7,565173E+22	1,927157E+22	9,492330E+22
-2003	3,782572E+22	3,782547E+22	9,635347E+21	9,635295E+21	7,565119E+22	1,927064E+22	9,492183E+22
-2002	3,782524E+22	3,782699E+22	9,635532E+21	9,635045E+21	7,565222E+22	1,927058E+22	9,492280E+22
-2001	3,782793E+22	3,782664E+22	9,634383E+21	9,635103E+21	7,565458E+22	1,926949E+22	9,492406E+22
-2000	3,782684E+22	3,782686E+22	9,634754E+21	9,634053E+21	7,565370E+22	1,926881E+22	9,492251E+22
-1999	3,782727E+22	3,782805E+22	9,634584E+21	9,634431E+21	7,565532E+22	1,926902E+22	9,492434E+22
-1998	3,782854E+22	3,782763E+22	9,633808E+21	9,634390E+21	7,565616E+22	1,926820E+22	9,492436E+22
-1997	3,782668E+22	3,782801E+22	9,634555E+21	9,633933E+21	7,565469E+22	1,926849E+22	9,492318E+22
-1996	3,782800E+22	3,782791E+22	9,634160E+21	9,634766E+21	7,565591E+22	1,926893E+22	9,492483E+22
-1995	3,782788E+22	3,782676E+22	9,634336E+21	9,634487E+21	7,565464E+22	1,926882E+22	9,492346E+22
-1994	3,782616E+22	3,782739E+22	9,635335E+21	9,634620E+21	7,565355E+22	1,926996E+22	9,492351E+22
-1993	3,782759E+22	3,782656E+22	9,634884E+21	9,635706E+21	7,565415E+22	1,927059E+22	9,492474E+22
-1992	3,782576E+22	3,782543E+22	9,635689E+21	9,635528E+21	7,565119E+22	1,927122E+22	9,492240E+22
-1991	3,782452E+22	3,782590E+22	9,636403E+21	9,636210E+21	7,565042E+22	1,927261E+22	9,492303E+22
-1990	3,782568E+22	3,782465E+22	9,635958E+21	9,636774E+21	7,565032E+22	1,927273E+22	9,492305E+22
-1989	3,782367E+22	3,782406E+22	9,636939E+21	9,636243E+21	7,564773E+22	1,927318E+22	9,492091E+22
-1988	3,782417E+22	3,782431E+22	9,636807E+21	9,636962E+21	7,564848E+22	1,927377E+22	9,492225E+22
-1987	3,782451E+22	3,782335E+22	9,636477E+21	9,636829E+21	7,564786E+22	1,927331E+22	9,492117E+22
-1986	3,782270E+22	3,782447E+22	9,637072E+21	9,636351E+21	7,564717E+22	1,927342E+22	9,492059E+22
-1985	3,782481E+22	3,782455E+22	9,636145E+21	9,636921E+21	7,564936E+22	1,927307E+22	9,492242E+22
-1984	3,782475E+22	3,782393E+22	9,636023E+21	9,635957E+21	7,564868E+22	1,927198E+22	9,492066E+22
-1983	3,782439E+22	3,782560E+22	9,636215E+21	9,635547E+21	7,564999E+22	1,927176E+22	9,492175E+22
-1982	3,782680E+22	3,782565E+22	9,635098E+21	9,635724E+21	7,565246E+22	1,927082E+22	9,492328E+22
-1981	3,782569E+22	3,782581E+22	9,635370E+21	9,634785E+21	7,565150E+22	1,927016E+22	9,492165E+22
-1980	3,782591E+22	3,782704E+22	9,635225E+21	9,635194E+21	7,565295E+22	1,927042E+22	9,492337E+22
-1979	3,782694E+22	3,782621E+22	9,634627E+21	9,635251E+21	7,565315E+22	1,926988E+22	9,492303E+22
-1978	3,782529E+22	3,782668E+22	9,635420E+21	9,634710E+21	7,565197E+22	1,927013E+22	9,492210E+22
-1977	3,782675E+22	3,782648E+22	9,635146E+21	9,635591E+21	7,565324E+22	1,927074E+22	9,492397E+22
-1976	3,782655E+22	3,782492E+22	9,635271E+21	9,635468E+21	7,565147E+22	1,927074E+22	9,492221E+22
-1975	3,782459E+22	3,782583E+22	9,636247E+21	9,635629E+21	7,565042E+22	1,927188E+22	9,492230E+22
-1974	3,782574E+22	3,782518E+22	9,635829E+21	9,636781E+21	7,565092E+22	1,927261E+22	9,492353E+22
-1973	3,782423E+22	3,782379E+22	9,636558E+21	9,636504E+21	7,564802E+22	1,927306E+22	9,492108E+22
-1972	3,782316E+22	3,782431E+22	9,637261E+21	9,636988E+21	7,564747E+22	1,927425E+22	9,492172E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1971	3,782413E+22	3,782288E+22	9,636929E+21	9,637581E+21	7,564701E+22	1,927451E+22	9,492152E+22
-1970	3,782212E+22	3,782274E+22	9,637831E+21	9,637029E+21	7,564486E+22	1,927486E+22	9,491972E+22
-1969	3,782258E+22	3,782314E+22	9,637676E+21	9,637834E+21	7,564572E+22	1,927551E+22	9,492123E+22
-1968	3,782305E+22	3,782179E+22	9,637216E+21	9,637749E+21	7,564484E+22	1,927497E+22	9,491981E+22
-1967	3,782151E+22	3,782307E+22	9,637752E+21	9,637073E+21	7,564458E+22	1,927482E+22	9,491941E+22
-1966	3,782371E+22	3,782341E+22	9,636865E+21	9,637553E+21	7,564712E+22	1,927442E+22	9,492154E+22
-1965	3,782404E+22	3,782269E+22	9,636658E+21	9,636522E+21	7,564674E+22	1,927318E+22	9,491992E+22
-1964	3,782341E+22	3,782460E+22	9,636844E+21	9,636104E+21	7,564802E+22	1,927295E+22	9,492097E+22
-1963	3,782519E+22	3,782459E+22	9,635854E+21	9,636515E+21	7,564978E+22	1,927237E+22	9,492215E+22
-1962	3,782404E+22	3,782481E+22	9,636128E+21	9,635604E+21	7,564885E+22	1,927173E+22	9,492058E+22
-1961	3,782440E+22	3,782578E+22	9,636087E+21	9,636030E+21	7,565018E+22	1,927212E+22	9,492229E+22
-1960	3,782574E+22	3,782435E+22	9,635456E+21	9,636113E+21	7,565009E+22	1,927157E+22	9,492165E+22
-1959	3,782421E+22	3,782492E+22	9,636236E+21	9,635478E+21	7,564913E+22	1,927171E+22	9,492085E+22
-1958	3,782538E+22	3,782516E+22	9,636017E+21	9,636483E+21	7,565053E+22	1,927250E+22	9,492303E+22
-1957	3,782525E+22	3,782355E+22	9,636046E+21	9,636442E+21	7,564881E+22	1,927249E+22	9,492129E+22
-1956	3,782306E+22	3,782453E+22	9,637074E+21	9,636530E+21	7,564759E+22	1,927360E+22	9,492120E+22
-1955	3,782391E+22	3,782368E+22	9,636844E+21	9,637723E+21	7,564759E+22	1,927457E+22	9,492216E+22
-1954	3,782259E+22	3,782234E+22	9,637586E+21	9,637326E+21	7,564493E+22	1,927491E+22	9,491984E+22
-1953	3,782162E+22	3,782275E+22	9,638338E+21	9,637845E+21	7,564437E+22	1,927618E+22	9,492055E+22
-1952	3,782253E+22	3,782097E+22	9,637862E+21	9,638575E+21	7,564350E+22	1,927644E+22	9,491994E+22
-1951	3,782051E+22	3,782111E+22	9,638619E+21	9,637988E+21	7,564162E+22	1,927661E+22	9,491823E+22
-1950	3,782103E+22	3,782181E+22	9,638442E+21	9,638758E+21	7,564284E+22	1,927720E+22	9,492004E+22
-1949	3,782207E+22	3,782037E+22	9,637850E+21	9,638496E+21	7,564244E+22	1,927635E+22	9,491879E+22
-1948	3,782072E+22	3,782191E+22	9,638371E+21	9,637575E+21	7,564262E+22	1,927595E+22	9,491857E+22
-1947	3,782258E+22	3,782229E+22	9,637634E+21	9,638107E+21	7,564487E+22	1,927574E+22	9,492061E+22
-1946	3,782268E+22	3,782197E+22	9,637392E+21	9,637133E+21	7,564465E+22	1,927452E+22	9,491918E+22
-1945	3,782188E+22	3,782377E+22	9,637627E+21	9,636891E+21	7,564566E+22	1,927452E+22	9,492017E+22
-1944	3,782359E+22	3,782307E+22	9,636587E+21	9,637409E+21	7,564666E+22	1,927400E+22	9,492065E+22
-1943	3,782274E+22	3,782322E+22	9,636842E+21	9,636407E+21	7,564596E+22	1,927325E+22	9,491921E+22
-1942	3,782328E+22	3,782422E+22	9,636874E+21	9,636791E+21	7,564751E+22	1,927366E+22	9,492117E+22
-1941	3,782491E+22	3,782271E+22	9,636178E+21	9,636888E+21	7,564762E+22	1,927307E+22	9,492069E+22
-1940	3,782312E+22	3,782366E+22	9,636957E+21	9,636259E+21	7,564679E+22	1,927322E+22	9,492000E+22
-1939	3,782362E+22	3,782391E+22	9,636928E+21	9,637444E+21	7,564753E+22	1,927437E+22	9,492190E+22
-1938	3,782341E+22	3,782244E+22	9,637016E+21	9,637376E+21	7,564585E+22	1,927439E+22	9,492024E+22
-1937	3,782135E+22	3,782311E+22	9,638175E+21	9,637452E+21	7,564446E+22	1,927563E+22	9,492008E+22
-1936	3,782226E+22	3,782165E+22	9,637909E+21	9,638652E+21	7,564390E+22	1,927656E+22	9,492046E+22
-1935	3,782107E+22	3,782044E+22	9,638573E+21	9,638224E+21	7,564151E+22	1,927680E+22	9,491831E+22
-1934	3,781993E+22	3,782119E+22	9,639265E+21	9,638828E+21	7,564112E+22	1,927809E+22	9,491921E+22
-1933	3,782112E+22	3,781943E+22	9,638593E+21	9,639583E+21	7,564055E+22	1,927818E+22	9,491873E+22
-1932	3,781924E+22	3,781981E+22	9,639273E+21	9,638804E+21	7,563905E+22	1,927808E+22	9,491713E+22
-1931	3,781966E+22	3,782056E+22	9,639241E+21	9,639512E+21	7,564022E+22	1,927875E+22	9,491897E+22
-1930	3,782093E+22	3,781941E+22	9,638649E+21	9,639065E+21	7,564035E+22	1,927771E+22	9,491806E+22
-1929	3,781959E+22	3,782090E+22	9,639234E+21	9,638190E+21	7,564049E+22	1,927742E+22	9,491791E+22
-1928	3,782111E+22	3,782095E+22	9,638403E+21	9,638881E+21	7,564206E+22	1,927728E+22	9,491935E+22
-1927	3,782113E+22	3,782064E+22	9,638066E+21	9,637951E+21	7,564177E+22	1,927602E+22	9,491779E+22
-1926	3,782035E+22	3,782243E+22	9,638324E+21	9,637730E+21	7,564277E+22	1,927605E+22	9,491883E+22
-1925	3,782264E+22	3,782147E+22	9,637180E+21	9,638164E+21	7,564412E+22	1,927534E+22	9,491946E+22
-1924	3,782200E+22	3,782176E+22	9,637437E+21	9,636983E+21	7,564376E+22	1,927442E+22	9,491818E+22
-1923	3,782218E+22	3,782295E+22	9,637665E+21	9,637485E+21	7,564513E+22	1,927515E+22	9,492027E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1922	3,782353E+22	3,782187E+22	9,637007E+21	9,637635E+21	7,564540E+22	1,927464E+22	9,492004E+22
-1921	3,782151E+22	3,782271E+22	9,637920E+21	9,637186E+21	7,564422E+22	1,927511E+22	9,491933E+22
-1920	3,782174E+22	3,782233E+22	9,637927E+21	9,638456E+21	7,564407E+22	1,927638E+22	9,492046E+22
-1919	3,782170E+22	3,782070E+22	9,638027E+21	9,638341E+21	7,564240E+22	1,927637E+22	9,491877E+22
-1918	3,781975E+22	3,782129E+22	9,639235E+21	9,638413E+21	7,564104E+22	1,927765E+22	9,491869E+22
-1917	3,782093E+22	3,781968E+22	9,638810E+21	9,639644E+21	7,564061E+22	1,927845E+22	9,491907E+22
-1916	3,781963E+22	3,781882E+22	9,639354E+21	9,639180E+21	7,563845E+22	1,927853E+22	9,491698E+22
-1915	3,781815E+22	3,781972E+22	9,640115E+21	9,639859E+21	7,563787E+22	1,927997E+22	9,491785E+22
-1914	3,781953E+22	3,781830E+22	9,639433E+21	9,640434E+21	7,563784E+22	1,927987E+22	9,491770E+22
-1913	3,781805E+22	3,781863E+22	9,640169E+21	9,639551E+21	7,563668E+22	1,927972E+22	9,491640E+22
-1912	3,781841E+22	3,781899E+22	9,640098E+21	9,640170E+21	7,563740E+22	1,928027E+22	9,491767E+22
-1911	3,781969E+22	3,781812E+22	9,639431E+21	9,639706E+21	7,563781E+22	1,927914E+22	9,491695E+22
-1910	3,781814E+22	3,781976E+22	9,639972E+21	9,638939E+21	7,563790E+22	1,927891E+22	9,491681E+22
-1909	3,781976E+22	3,781961E+22	9,638979E+21	9,639683E+21	7,563937E+22	1,927866E+22	9,491803E+22
-1908	3,781996E+22	3,781938E+22	9,638594E+21	9,638638E+21	7,563934E+22	1,927723E+22	9,491658E+22
-1907	3,781915E+22	3,782108E+22	9,639014E+21	9,638421E+21	7,564023E+22	1,927744E+22	9,491767E+22
-1906	3,782166E+22	3,782039E+22	9,637941E+21	9,638746E+21	7,564205E+22	1,927669E+22	9,491873E+22
-1905	3,782102E+22	3,782069E+22	9,638292E+21	9,637702E+21	7,564171E+22	1,927599E+22	9,491770E+22
-1904	3,782061E+22	3,782159E+22	9,638524E+21	9,638381E+21	7,564220E+22	1,927691E+22	9,491910E+22
-1903	3,782179E+22	3,782055E+22	9,637886E+21	9,638615E+21	7,564234E+22	1,927650E+22	9,491884E+22
-1902	3,781974E+22	3,782119E+22	9,638902E+21	9,638202E+21	7,564093E+22	1,927710E+22	9,491803E+22
-1901	3,782032E+22	3,782047E+22	9,638831E+21	9,639406E+21	7,564079E+22	1,927824E+22	9,491903E+22
-1900	3,782044E+22	3,781890E+22	9,638891E+21	9,639172E+21	7,563934E+22	1,927806E+22	9,491740E+22
-1899	3,781816E+22	3,781961E+22	9,640192E+21	9,639373E+21	7,563778E+22	1,927956E+22	9,491734E+22
-1898	3,781926E+22	3,781844E+22	9,639718E+21	9,640582E+21	7,563770E+22	1,928030E+22	9,491800E+22
-1897	3,781805E+22	3,781756E+22	9,640282E+21	9,640171E+21	7,563561E+22	1,928045E+22	9,491606E+22
-1896	3,781652E+22	3,781813E+22	9,641018E+21	9,640793E+21	7,563464E+22	1,928181E+22	9,491645E+22
-1895	3,781819E+22	3,781680E+22	9,640320E+21	9,641199E+21	7,563499E+22	1,928152E+22	9,491651E+22
-1894	3,781680E+22	3,781720E+22	9,641079E+21	9,640264E+21	7,563400E+22	1,928134E+22	9,491534E+22
-1893	3,781729E+22	3,781753E+22	9,640820E+21	9,640899E+21	7,563482E+22	1,928172E+22	9,491654E+22
-1892	3,781835E+22	3,781690E+22	9,640018E+21	9,640418E+21	7,563525E+22	1,928044E+22	9,491569E+22
-1891	3,781652E+22	3,781853E+22	9,640630E+21	9,639763E+21	7,563505E+22	1,928039E+22	9,491545E+22
-1890	3,781839E+22	3,781855E+22	9,639647E+21	9,640342E+21	7,563694E+22	1,927999E+22	9,491693E+22
-1889	3,781902E+22	3,781820E+22	9,639332E+21	9,639280E+21	7,563722E+22	1,927861E+22	9,491584E+22
-1888	3,781811E+22	3,781959E+22	9,639763E+21	9,639080E+21	7,563771E+22	1,927884E+22	9,491655E+22
-1887	3,782050E+22	3,781918E+22	9,638712E+21	9,639466E+21	7,563968E+22	1,927818E+22	9,491786E+22
-1886	3,781958E+22	3,781961E+22	9,639112E+21	9,638589E+21	7,563919E+22	1,927770E+22	9,491689E+22
-1885	3,781916E+22	3,782020E+22	9,639273E+21	9,639322E+21	7,563936E+22	1,927860E+22	9,491795E+22
-1884	3,782037E+22	3,781911E+22	9,638659E+21	9,639473E+21	7,563948E+22	1,927813E+22	9,491761E+22
-1883	3,781822E+22	3,781954E+22	9,639858E+21	9,639113E+21	7,563775E+22	1,927897E+22	9,491672E+22
-1882	3,781886E+22	3,781897E+22	9,639833E+21	9,640215E+21	7,563783E+22	1,928005E+22	9,491788E+22
-1881	3,781904E+22	3,781741E+22	9,639920E+21	9,640151E+21	7,563645E+22	1,928007E+22	9,491652E+22
-1880	3,781629E+22	3,781782E+22	9,641141E+21	9,640450E+21	7,563412E+22	1,928159E+22	9,491571E+22
-1879	3,781744E+22	3,781683E+22	9,640656E+21	9,641262E+21	7,563427E+22	1,928228E+22	9,491655E+22
-1878	3,781651E+22	3,781596E+22	9,641243E+21	9,641124E+21	7,563247E+22	1,928237E+22	9,491484E+22
-1877	3,781534E+22	3,781639E+22	9,641849E+21	9,641580E+21	7,563173E+22	1,928343E+22	9,491515E+22
-1876	3,781711E+22	3,781538E+22	9,641082E+21	9,641826E+21	7,563249E+22	1,928291E+22	9,491540E+22
-1875	3,781533E+22	3,781599E+22	9,641879E+21	9,641017E+21	7,563132E+22	1,928290E+22	9,491422E+22
-1874	3,781564E+22	3,781666E+22	9,641552E+21	9,641604E+21	7,563230E+22	1,928316E+22	9,491546E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1873	3,781691E+22	3,781588E+22	9,640747E+21	9,641221E+21	7,563280E+22	1,928197E+22	9,491476E+22
-1872	3,781506E+22	3,781703E+22	9,641325E+21	9,640539E+21	7,563209E+22	1,928186E+22	9,491395E+22
-1871	3,781733E+22	3,781713E+22	9,640371E+21	9,641011E+21	7,563446E+22	1,928138E+22	9,491585E+22
-1870	3,781814E+22	3,781684E+22	9,640108E+21	9,639967E+21	7,563498E+22	1,928008E+22	9,491506E+22
-1869	3,781719E+22	3,781824E+22	9,640410E+21	9,639841E+21	7,563544E+22	1,928025E+22	9,491569E+22
-1868	3,781925E+22	3,781808E+22	9,639332E+21	9,640230E+21	7,563733E+22	1,927956E+22	9,491689E+22
-1867	3,781797E+22	3,781841E+22	9,639903E+21	9,639508E+21	7,563638E+22	1,927941E+22	9,491579E+22
-1866	3,781763E+22	3,781902E+22	9,640157E+21	9,640084E+21	7,563665E+22	1,928024E+22	9,491689E+22
-1865	3,781908E+22	3,781765E+22	9,639645E+21	9,640278E+21	7,563673E+22	1,927992E+22	9,491666E+22
-1864	3,781668E+22	3,781767E+22	9,640856E+21	9,640001E+21	7,563435E+22	1,928086E+22	9,491521E+22
-1863	3,781724E+22	3,781730E+22	9,640815E+21	9,641171E+21	7,563454E+22	1,928199E+22	9,491653E+22
-1862	3,781725E+22	3,781584E+22	9,640900E+21	9,641232E+21	7,563310E+22	1,928213E+22	9,491523E+22
-1861	3,781474E+22	3,781612E+22	9,641964E+21	9,641515E+21	7,563085E+22	1,928348E+22	9,491433E+22
-1860	3,781605E+22	3,781527E+22	9,641471E+21	9,642486E+21	7,563131E+22	1,928396E+22	9,491527E+22
-1859	3,781512E+22	3,781448E+22	9,642175E+21	9,641966E+21	7,562960E+22	1,928414E+22	9,491374E+22
-1858	3,781401E+22	3,781518E+22	9,642769E+21	9,642243E+21	7,562919E+22	1,928501E+22	9,491420E+22
-1857	3,781571E+22	3,781425E+22	9,641965E+21	9,642632E+21	7,562996E+22	1,928460E+22	9,491456E+22
-1856	3,781348E+22	3,781453E+22	9,642660E+21	9,641927E+21	7,562801E+22	1,928459E+22	9,491260E+22
-1855	3,781397E+22	3,781523E+22	9,642298E+21	9,642450E+21	7,562919E+22	1,928475E+22	9,491394E+22
-1854	3,781564E+22	3,781442E+22	9,641505E+21	9,641997E+21	7,563007E+22	1,928350E+22	9,491357E+22
-1853	3,781431E+22	3,781541E+22	9,641916E+21	9,641196E+21	7,562972E+22	1,928311E+22	9,491283E+22
-1852	3,781664E+22	3,781587E+22	9,640953E+21	9,641552E+21	7,563251E+22	1,928251E+22	9,491502E+22
-1851	3,781704E+22	3,781589E+22	9,640780E+21	9,640674E+21	7,563293E+22	1,928145E+22	9,491438E+22
-1850	3,781581E+22	3,781752E+22	9,641128E+21	9,640496E+21	7,563333E+22	1,928162E+22	9,491496E+22
-1849	3,781788E+22	3,781718E+22	9,640165E+21	9,641020E+21	7,563505E+22	1,928119E+22	9,491624E+22
-1848	3,781630E+22	3,781684E+22	9,640811E+21	9,640356E+21	7,563314E+22	1,928117E+22	9,491431E+22
-1847	3,781608E+22	3,781735E+22	9,641160E+21	9,640908E+21	7,563343E+22	1,928207E+22	9,491550E+22
-1846	3,781764E+22	3,781591E+22	9,640693E+21	9,641233E+21	7,563355E+22	1,928193E+22	9,491547E+22
-1845	3,781520E+22	3,781577E+22	9,641701E+21	9,641069E+21	7,563097E+22	1,928277E+22	9,491374E+22
-1844	3,781562E+22	3,781566E+22	9,641608E+21	9,642203E+21	7,563128E+22	1,928381E+22	9,491509E+22
-1843	3,781555E+22	3,781429E+22	9,641795E+21	9,642302E+21	7,562984E+22	1,928410E+22	9,491394E+22
-1842	3,781328E+22	3,781477E+22	9,642900E+21	9,642320E+21	7,562805E+22	1,928522E+22	9,491327E+22
-1841	3,781485E+22	3,781395E+22	9,642472E+21	9,643261E+21	7,562879E+22	1,928573E+22	9,491453E+22
-1840	3,781351E+22	3,781292E+22	9,643149E+21	9,642792E+21	7,562643E+22	1,928594E+22	9,491237E+22
-1839	3,781227E+22	3,781386E+22	9,643682E+21	9,643090E+21	7,562614E+22	1,928677E+22	9,491291E+22
-1838	3,781396E+22	3,781290E+22	9,642826E+21	9,643557E+21	7,562686E+22	1,928638E+22	9,491325E+22
-1837	3,781210E+22	3,781288E+22	9,643298E+21	9,642812E+21	7,562498E+22	1,928611E+22	9,491109E+22
-1836	3,781295E+22	3,781371E+22	9,642892E+21	9,643105E+21	7,562666E+22	1,928600E+22	9,491266E+22
-1835	3,781474E+22	3,781314E+22	9,642190E+21	9,642646E+21	7,562787E+22	1,928484E+22	9,491271E+22
-1834	3,781353E+22	3,781449E+22	9,642596E+21	9,641715E+21	7,562802E+22	1,928431E+22	9,491233E+22
-1833	3,781560E+22	3,781511E+22	9,641671E+21	9,642212E+21	7,563070E+22	1,928388E+22	9,491459E+22
-1832	3,781535E+22	3,781479E+22	9,641530E+21	9,641492E+21	7,563013E+22	1,928302E+22	9,491315E+22
-1831	3,781415E+22	3,781625E+22	9,641971E+21	9,641295E+21	7,563041E+22	1,928327E+22	9,491367E+22
-1830	3,781633E+22	3,781565E+22	9,641116E+21	9,641843E+21	7,563198E+22	1,928296E+22	9,491494E+22
-1829	3,781508E+22	3,781495E+22	9,641629E+21	9,641221E+21	7,563003E+22	1,928285E+22	9,491288E+22
-1828	3,781484E+22	3,781560E+22	9,641964E+21	9,641744E+21	7,563044E+22	1,928371E+22	9,491415E+22
-1827	3,781604E+22	3,781446E+22	9,641548E+21	9,642269E+21	7,563050E+22	1,928382E+22	9,491432E+22
-1826	3,781363E+22	3,781452E+22	9,642534E+21	9,642012E+21	7,562815E+22	1,928455E+22	9,491269E+22
-1825	3,781416E+22	3,781439E+22	9,642535E+21	9,643164E+21	7,562855E+22	1,928570E+22	9,491425E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1824	3,781387E+22	3,781267E+22	9,642806E+21	9,643234E+21	7,562654E+22	1,928604E+22	9,491258E+22
-1823	3,781177E+22	3,781318E+22	9,643990E+21	9,643145E+21	7,562495E+22	1,928713E+22	9,491209E+22
-1822	3,781328E+22	3,781241E+22	9,643582E+21	9,644162E+21	7,562569E+22	1,928774E+22	9,491343E+22
-1821	3,781186E+22	3,781122E+22	9,643985E+21	9,643794E+21	7,562308E+22	1,928778E+22	9,491086E+22
-1820	3,781059E+22	3,781226E+22	9,644402E+21	9,643999E+21	7,562285E+22	1,928840E+22	9,491125E+22
-1819	3,781242E+22	3,781143E+22	9,643559E+21	9,644448E+21	7,562385E+22	1,928801E+22	9,491186E+22
-1818	3,781107E+22	3,781159E+22	9,643974E+21	9,643401E+21	7,562265E+22	1,928738E+22	9,491003E+22
-1817	3,781226E+22	3,781263E+22	9,643610E+21	9,643659E+21	7,562489E+22	1,928727E+22	9,491216E+22
-1816	3,781356E+22	3,781200E+22	9,642921E+21	9,643264E+21	7,562556E+22	1,928619E+22	9,491174E+22
-1815	3,781209E+22	3,781362E+22	9,643353E+21	9,642390E+21	7,562571E+22	1,928574E+22	9,491145E+22
-1814	3,781402E+22	3,781414E+22	9,642493E+21	9,643010E+21	7,562815E+22	1,928550E+22	9,491366E+22
-1813	3,781388E+22	3,781330E+22	9,642224E+21	9,642355E+21	7,562718E+22	1,928458E+22	9,491176E+22
-1812	3,781288E+22	3,781463E+22	9,642703E+21	9,642047E+21	7,562751E+22	1,928475E+22	9,491226E+22
-1811	3,781508E+22	3,781406E+22	9,641956E+21	9,642681E+21	7,562914E+22	1,928464E+22	9,491378E+22
-1810	3,781393E+22	3,781354E+22	9,642441E+21	9,642021E+21	7,562746E+22	1,928446E+22	9,491193E+22
-1809	3,781352E+22	3,781435E+22	9,642798E+21	9,642696E+21	7,562787E+22	1,928549E+22	9,491336E+22
-1808	3,781417E+22	3,781295E+22	9,642452E+21	9,643319E+21	7,562711E+22	1,928577E+22	9,491289E+22
-1807	3,781193E+22	3,781303E+22	9,643545E+21	9,642965E+21	7,562497E+22	1,928651E+22	9,491148E+22
-1806	3,781264E+22	3,781280E+22	9,643664E+21	9,644060E+21	7,562544E+22	1,928772E+22	9,491317E+22
-1805	3,781249E+22	3,781085E+22	9,643790E+21	9,644151E+21	7,562334E+22	1,928794E+22	9,491128E+22
-1804	3,781028E+22	3,781152E+22	9,644908E+21	9,644012E+21	7,562180E+22	1,928892E+22	9,491072E+22
-1803	3,781142E+22	3,781102E+22	9,644470E+21	9,645152E+21	7,562244E+22	1,928962E+22	9,491207E+22
-1802	3,781026E+22	3,780992E+22	9,644756E+21	9,644669E+21	7,562018E+22	1,928943E+22	9,490960E+22
-1801	3,780930E+22	3,781092E+22	9,645150E+21	9,644801E+21	7,562022E+22	1,928995E+22	9,491017E+22
-1800	3,781102E+22	3,780993E+22	9,644348E+21	9,645183E+21	7,562095E+22	1,928953E+22	9,491048E+22
-1799	3,781004E+22	3,781031E+22	9,644780E+21	9,644024E+21	7,562035E+22	1,928880E+22	9,490915E+22
-1798	3,781111E+22	3,781152E+22	9,644446E+21	9,644355E+21	7,562262E+22	1,928880E+22	9,491143E+22
-1797	3,781220E+22	3,781079E+22	9,643548E+21	9,644087E+21	7,562299E+22	1,928763E+22	9,491062E+22
-1796	3,781067E+22	3,781232E+22	9,643968E+21	9,643159E+21	7,562299E+22	1,928713E+22	9,491011E+22
-1795	3,781253E+22	3,781284E+22	9,643213E+21	9,643791E+21	7,562537E+22	1,928700E+22	9,491237E+22
-1794	3,781283E+22	3,781194E+22	9,642942E+21	9,642993E+21	7,562477E+22	1,928594E+22	9,491071E+22
-1793	3,781197E+22	3,781328E+22	9,643482E+21	9,642747E+21	7,562525E+22	1,928623E+22	9,491148E+22
-1792	3,781358E+22	3,781264E+22	9,642810E+21	9,643536E+21	7,562622E+22	1,928635E+22	9,491256E+22
-1791	3,781233E+22	3,781228E+22	9,643331E+21	9,642936E+21	7,562461E+22	1,928627E+22	9,491088E+22
-1790	3,781187E+22	3,781301E+22	9,643795E+21	9,643695E+21	7,562488E+22	1,928749E+22	9,491237E+22
-1789	3,781260E+22	3,781126E+22	9,643365E+21	9,644334E+21	7,562385E+22	1,928770E+22	9,491155E+22
-1788	3,781052E+22	3,781127E+22	9,644525E+21	9,643857E+21	7,562179E+22	1,928838E+22	9,491017E+22
-1787	3,781111E+22	3,781121E+22	9,644728E+21	9,644995E+21	7,562232E+22	1,928972E+22	9,491204E+22
-1786	3,781096E+22	3,780937E+22	9,644748E+21	9,645057E+21	7,562033E+22	1,928980E+22	9,491014E+22
-1785	3,780861E+22	3,781014E+22	9,645783E+21	9,645017E+21	7,561875E+22	1,929080E+22	9,490955E+22
-1784	3,780938E+22	3,780936E+22	9,645338E+21	9,646158E+21	7,561874E+22	1,929150E+22	9,491023E+22
-1783	3,780864E+22	3,780833E+22	9,645624E+21	9,645499E+21	7,561698E+22	1,929112E+22	9,490810E+22
-1782	3,780813E+22	3,780943E+22	9,646039E+21	9,645538E+21	7,561757E+22	1,929158E+22	9,490914E+22
-1781	3,781001E+22	3,780840E+22	9,645065E+21	9,645897E+21	7,561842E+22	1,929096E+22	9,490938E+22
-1780	3,780898E+22	3,780909E+22	9,645428E+21	9,644689E+21	7,561807E+22	1,929012E+22	9,490819E+22
-1779	3,780970E+22	3,781060E+22	9,645105E+21	9,645094E+21	7,562030E+22	1,929020E+22	9,491050E+22
-1778	3,781093E+22	3,780984E+22	9,644154E+21	9,644749E+21	7,562077E+22	1,928890E+22	9,490967E+22
-1777	3,780957E+22	3,781121E+22	9,644627E+21	9,643830E+21	7,562078E+22	1,928846E+22	9,490924E+22
-1776	3,781110E+22	3,781141E+22	9,644013E+21	9,644480E+21	7,562251E+22	1,928849E+22	9,491100E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1775	3,781164E+22	3,781057E+22	9,643828E+21	9,643711E+21	7,562221E+22	1,928754E+22	9,490975E+22
-1774	3,781066E+22	3,781193E+22	9,644406E+21	9,643633E+21	7,562259E+22	1,928804E+22	9,491063E+22
-1773	3,781200E+22	3,781109E+22	9,643596E+21	9,644581E+21	7,562309E+22	1,928818E+22	9,491127E+22
-1772	3,781084E+22	3,781065E+22	9,644139E+21	9,643921E+21	7,562149E+22	1,928806E+22	9,490955E+22
-1771	3,781030E+22	3,781148E+22	9,644728E+21	9,644627E+21	7,562178E+22	1,928935E+22	9,491114E+22
-1770	3,781138E+22	3,780976E+22	9,644309E+21	9,645141E+21	7,562114E+22	1,928945E+22	9,491059E+22
-1769	3,780928E+22	3,780978E+22	9,645501E+21	9,644714E+21	7,561906E+22	1,929022E+22	9,490928E+22
-1768	3,780906E+22	3,780968E+22	9,645751E+21	9,645971E+21	7,561875E+22	1,929172E+22	9,491047E+22
-1767	3,780899E+22	3,780793E+22	9,645735E+21	9,646070E+21	7,561692E+22	1,929181E+22	9,490873E+22
-1766	3,780680E+22	3,780852E+22	9,646756E+21	9,646038E+21	7,561532E+22	1,929279E+22	9,490812E+22
-1765	3,780785E+22	3,780750E+22	9,646145E+21	9,647102E+21	7,561535E+22	1,929325E+22	9,490860E+22
-1764	3,780762E+22	3,780656E+22	9,646392E+21	9,646241E+21	7,561418E+22	1,929263E+22	9,490682E+22
-1763	3,780710E+22	3,780810E+22	9,646825E+21	9,646247E+21	7,561520E+22	1,929307E+22	9,490827E+22
-1762	3,780898E+22	3,780742E+22	9,645738E+21	9,646560E+21	7,561640E+22	1,929230E+22	9,490870E+22
-1761	3,780775E+22	3,780822E+22	9,646053E+21	9,645420E+21	7,561596E+22	1,929147E+22	9,490744E+22
-1760	3,780794E+22	3,780945E+22	9,645837E+21	9,645824E+21	7,561740E+22	1,929166E+22	9,490906E+22
-1759	3,780952E+22	3,780861E+22	9,644960E+21	9,645390E+21	7,561813E+22	1,929035E+22	9,490847E+22
-1758	3,780845E+22	3,780980E+22	9,645503E+21	9,644523E+21	7,561825E+22	1,929003E+22	9,490828E+22
-1757	3,780991E+22	3,780980E+22	9,644771E+21	9,645274E+21	7,561972E+22	1,929005E+22	9,490976E+22
-1756	3,781040E+22	3,780912E+22	9,644550E+21	9,644569E+21	7,561952E+22	1,928912E+22	9,490863E+22
-1755	3,780918E+22	3,781072E+22	9,645163E+21	9,644588E+21	7,561991E+22	1,928975E+22	9,490966E+22
-1754	3,781068E+22	3,780981E+22	9,644356E+21	9,645446E+21	7,562049E+22	1,928980E+22	9,491029E+22
-1753	3,780962E+22	3,780932E+22	9,644981E+21	9,644773E+21	7,561894E+22	1,928975E+22	9,490870E+22
-1752	3,780866E+22	3,780989E+22	9,645761E+21	9,645466E+21	7,561855E+22	1,929123E+22	9,490978E+22
-1751	3,780975E+22	3,780824E+22	9,645428E+21	9,646020E+21	7,561800E+22	1,929145E+22	9,490944E+22
-1750	3,780748E+22	3,780824E+22	9,646606E+21	9,645785E+21	7,561572E+22	1,929239E+22	9,490811E+22
-1749	3,780701E+22	3,780781E+22	9,646663E+21	9,647120E+21	7,561482E+22	1,929378E+22	9,490861E+22
-1748	3,780729E+22	3,780596E+22	9,646595E+21	9,647100E+21	7,561325E+22	1,929369E+22	9,490695E+22
-1747	3,780541E+22	3,780679E+22	9,647600E+21	9,646921E+21	7,561220E+22	1,929452E+22	9,490672E+22
-1746	3,780695E+22	3,780600E+22	9,646921E+21	9,647787E+21	7,561295E+22	1,929471E+22	9,490766E+22
-1745	3,780677E+22	3,780546E+22	9,647116E+21	9,646906E+21	7,561223E+22	1,929402E+22	9,490625E+22
-1744	3,780551E+22	3,780712E+22	9,647606E+21	9,646953E+21	7,561263E+22	1,929456E+22	9,490719E+22
-1743	3,780737E+22	3,780659E+22	9,646542E+21	9,647267E+21	7,561396E+22	1,929381E+22	9,490777E+22
-1742	3,780623E+22	3,780711E+22	9,646881E+21	9,646197E+21	7,561335E+22	1,929308E+22	9,490642E+22
-1741	3,780645E+22	3,780791E+22	9,646563E+21	9,646589E+21	7,561436E+22	1,929315E+22	9,490751E+22
-1740	3,780849E+22	3,780692E+22	9,645692E+21	9,646110E+21	7,561541E+22	1,929180E+22	9,490721E+22
-1739	3,780737E+22	3,780836E+22	9,646232E+21	9,645304E+21	7,561573E+22	1,929154E+22	9,490726E+22
-1738	3,780886E+22	3,780858E+22	9,645417E+21	9,646092E+21	7,561744E+22	1,929151E+22	9,490895E+22
-1737	3,780923E+22	3,780796E+22	9,645176E+21	9,645434E+21	7,561719E+22	1,929061E+22	9,490780E+22
-1736	3,780747E+22	3,780937E+22	9,645992E+21	9,645423E+21	7,561684E+22	1,929141E+22	9,490825E+22
-1735	3,780923E+22	3,780850E+22	9,645347E+21	9,646193E+21	7,561773E+22	1,929154E+22	9,490927E+22
-1734	3,780826E+22	3,780782E+22	9,646088E+21	9,645629E+21	7,561607E+22	1,929172E+22	9,490779E+22
-1733	3,780692E+22	3,780815E+22	9,646782E+21	9,646438E+21	7,561507E+22	1,929322E+22	9,490829E+22
-1732	3,780799E+22	3,780647E+22	9,646396E+21	9,647074E+21	7,561445E+22	1,929347E+22	9,490792E+22
-1731	3,780561E+22	3,780656E+22	9,647531E+21	9,646884E+21	7,561217E+22	1,929442E+22	9,490658E+22
-1730	3,780553E+22	3,780611E+22	9,647497E+21	9,648084E+21	7,561163E+22	1,929558E+22	9,490722E+22
-1729	3,780612E+22	3,780440E+22	9,647398E+21	9,647948E+21	7,561052E+22	1,929535E+22	9,490587E+22
-1728	3,780401E+22	3,780530E+22	9,648525E+21	9,647689E+21	7,560931E+22	1,929621E+22	9,490552E+22
-1727	3,780564E+22	3,780488E+22	9,647889E+21	9,648513E+21	7,561052E+22	1,929640E+22	9,490692E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1726	3,780525E+22	3,780446E+22	9,648033E+21	9,647784E+21	7,560971E+22	1,929582E+22	9,490553E+22
-1725	3,780368E+22	3,780576E+22	9,648357E+21	9,647842E+21	7,560944E+22	1,929620E+22	9,490564E+22
-1724	3,780587E+22	3,780501E+22	9,647266E+21	9,648048E+21	7,561087E+22	1,929531E+22	9,490619E+22
-1723	3,780504E+22	3,780561E+22	9,647592E+21	9,646910E+21	7,561065E+22	1,929450E+22	9,490515E+22
-1722	3,780566E+22	3,780641E+22	9,647198E+21	9,647199E+21	7,561207E+22	1,929440E+22	9,490647E+22
-1721	3,780765E+22	3,780577E+22	9,646278E+21	9,646778E+21	7,561342E+22	1,929306E+22	9,490648E+22
-1720	3,780596E+22	3,780730E+22	9,646902E+21	9,646064E+21	7,561325E+22	1,929297E+22	9,490622E+22
-1719	3,780742E+22	3,780762E+22	9,646211E+21	9,646839E+21	7,561504E+22	1,929305E+22	9,490810E+22
-1718	3,780785E+22	3,780684E+22	9,646076E+21	9,646276E+21	7,561469E+22	1,929235E+22	9,490704E+22
-1717	3,780594E+22	3,780775E+22	9,646910E+21	9,646253E+21	7,561368E+22	1,929316E+22	9,490685E+22
-1716	3,780789E+22	3,780671E+22	9,646361E+21	9,647044E+21	7,561459E+22	1,929341E+22	9,490800E+22
-1715	3,780668E+22	3,780619E+22	9,647107E+21	9,646635E+21	7,561287E+22	1,929374E+22	9,490662E+22
-1714	3,780525E+22	3,780652E+22	9,647672E+21	9,647510E+21	7,561176E+22	1,929518E+22	9,490695E+22
-1713	3,780631E+22	3,780486E+22	9,647216E+21	9,648154E+21	7,561117E+22	1,929537E+22	9,490654E+22
-1712	3,780376E+22	3,780479E+22	9,648450E+21	9,647866E+21	7,560855E+22	1,929632E+22	9,490486E+22
-1711	3,780413E+22	3,780456E+22	9,648510E+21	9,648890E+21	7,560869E+22	1,929740E+22	9,490609E+22
-1710	3,780491E+22	3,780302E+22	9,648430E+21	9,648791E+21	7,560793E+22	1,929722E+22	9,490515E+22
-1709	3,780243E+22	3,780387E+22	9,649428E+21	9,648565E+21	7,560630E+22	1,929799E+22	9,490429E+22
-1708	3,780408E+22	3,780353E+22	9,648736E+21	9,649395E+21	7,560761E+22	1,929813E+22	9,490574E+22
-1707	3,780360E+22	3,780317E+22	9,648807E+21	9,648652E+21	7,560677E+22	1,929746E+22	9,490423E+22
-1706	3,780238E+22	3,780434E+22	9,649009E+21	9,648581E+21	7,560672E+22	1,929759E+22	9,490431E+22
-1705	3,780489E+22	3,780360E+22	9,647861E+21	9,648671E+21	7,560849E+22	1,929653E+22	9,490502E+22
-1704	3,780386E+22	3,780417E+22	9,648304E+21	9,647530E+21	7,560803E+22	1,929583E+22	9,490386E+22
-1703	3,780457E+22	3,780537E+22	9,647973E+21	9,647845E+21	7,560993E+22	1,929582E+22	9,490575E+22
-1702	3,780635E+22	3,780484E+22	9,647057E+21	9,647616E+21	7,561119E+22	1,929467E+22	9,490587E+22
-1701	3,780433E+22	3,780597E+22	9,647634E+21	9,646932E+21	7,561030E+22	1,929457E+22	9,490487E+22
-1700	3,780608E+22	3,780608E+22	9,647048E+21	9,647624E+21	7,561215E+22	1,929467E+22	9,490683E+22
-1699	3,780655E+22	3,780535E+22	9,646985E+21	9,647070E+21	7,561190E+22	1,929405E+22	9,490595E+22
-1698	3,780477E+22	3,780617E+22	9,647796E+21	9,647072E+21	7,561094E+22	1,929487E+22	9,490580E+22
-1697	3,780644E+22	3,780531E+22	9,647206E+21	9,647959E+21	7,561175E+22	1,929517E+22	9,490692E+22
-1696	3,780469E+22	3,780471E+22	9,648044E+21	9,647689E+21	7,560940E+22	1,929573E+22	9,490513E+22
-1695	3,780341E+22	3,780504E+22	9,648676E+21	9,648513E+21	7,560845E+22	1,929719E+22	9,490564E+22
-1694	3,780468E+22	3,780332E+22	9,648250E+21	9,649199E+21	7,560800E+22	1,929745E+22	9,490545E+22
-1693	3,780220E+22	3,780291E+22	9,649421E+21	9,648818E+21	7,560511E+22	1,929824E+22	9,490335E+22
-1692	3,780288E+22	3,780275E+22	9,649521E+21	9,649765E+21	7,560563E+22	1,929929E+22	9,490491E+22
-1691	3,780346E+22	3,780167E+22	9,649377E+21	9,649726E+21	7,560513E+22	1,929910E+22	9,490423E+22
-1690	3,780093E+22	3,780250E+22	9,650191E+21	9,649474E+21	7,560344E+22	1,929967E+22	9,490310E+22
-1689	3,780252E+22	3,780221E+22	9,649410E+21	9,650193E+21	7,560474E+22	1,929960E+22	9,490434E+22
-1688	3,780199E+22	3,780172E+22	9,649556E+21	9,649366E+21	7,560371E+22	1,929892E+22	9,490263E+22
-1687	3,780120E+22	3,780299E+22	9,649813E+21	9,649144E+21	7,560419E+22	1,929896E+22	9,490315E+22
-1686	3,780385E+22	3,780247E+22	9,648661E+21	9,649346E+21	7,560632E+22	1,929801E+22	9,490433E+22
-1685	3,780252E+22	3,780290E+22	9,648983E+21	9,648284E+21	7,560542E+22	1,929727E+22	9,490269E+22
-1684	3,780331E+22	3,780412E+22	9,648677E+21	9,648640E+21	7,560743E+22	1,929732E+22	9,490474E+22
-1683	3,780498E+22	3,780374E+22	9,647786E+21	9,648435E+21	7,560872E+22	1,929622E+22	9,490494E+22
-1682	3,780318E+22	3,780463E+22	9,648336E+21	9,647700E+21	7,560781E+22	1,929604E+22	9,490385E+22
-1681	3,780498E+22	3,780472E+22	9,647808E+21	9,648322E+21	7,560970E+22	1,929613E+22	9,490583E+22
-1680	3,780507E+22	3,780388E+22	9,647921E+21	9,647897E+21	7,560894E+22	1,929582E+22	9,490476E+22
-1679	3,780316E+22	3,780485E+22	9,648803E+21	9,647996E+21	7,560801E+22	1,929680E+22	9,490481E+22
-1678	3,780460E+22	3,780397E+22	9,648198E+21	9,649086E+21	7,560857E+22	1,929728E+22	9,490585E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1677	3,780268E+22	3,780282E+22	9,648975E+21	9,648808E+21	7,560550E+22	1,929778E+22	9,490328E+22
-1676	3,780196E+22	3,780300E+22	9,649667E+21	9,649503E+21	7,560496E+22	1,929917E+22	9,490413E+22
-1675	3,780335E+22	3,780154E+22	9,649262E+21	9,650099E+21	7,560490E+22	1,929936E+22	9,490426E+22
-1674	3,780105E+22	3,780129E+22	9,650326E+21	9,649694E+21	7,560234E+22	1,930002E+22	9,490236E+22
-1673	3,780149E+22	3,780149E+22	9,650337E+21	9,650601E+21	7,560297E+22	1,930094E+22	9,490391E+22
-1672	3,780153E+22	3,780043E+22	9,650254E+21	9,650617E+21	7,560197E+22	1,930087E+22	9,490284E+22
-1671	3,779920E+22	3,780132E+22	9,651083E+21	9,650261E+21	7,560052E+22	1,930134E+22	9,490187E+22
-1670	3,780098E+22	3,780094E+22	9,650282E+21	9,650979E+21	7,560192E+22	1,930126E+22	9,490318E+22
-1669	3,780054E+22	3,780002E+22	9,650352E+21	9,650108E+21	7,560056E+22	1,930046E+22	9,490102E+22
-1668	3,780019E+22	3,780134E+22	9,650606E+21	9,649881E+21	7,560152E+22	1,930049E+22	9,490201E+22
-1667	3,780261E+22	3,780129E+22	9,649388E+21	9,650171E+21	7,560391E+22	1,929956E+22	9,490346E+22
-1666	3,780138E+22	3,780171E+22	9,649546E+21	9,649132E+21	7,560308E+22	1,929868E+22	9,490176E+22
-1665	3,780215E+22	3,780297E+22	9,649234E+21	9,649342E+21	7,560511E+22	1,929858E+22	9,490369E+22
-1664	3,780364E+22	3,780250E+22	9,648540E+21	9,649106E+21	7,560614E+22	1,929765E+22	9,490379E+22
-1663	3,780205E+22	3,780341E+22	9,649237E+21	9,648324E+21	7,560547E+22	1,929756E+22	9,490303E+22
-1662	3,780359E+22	3,780360E+22	9,648775E+21	9,649139E+21	7,560719E+22	1,929791E+22	9,490510E+22
-1661	3,780324E+22	3,780235E+22	9,648836E+21	9,648898E+21	7,560560E+22	1,929773E+22	9,490333E+22
-1660	3,780146E+22	3,780308E+22	9,649744E+21	9,649052E+21	7,560454E+22	1,929880E+22	9,490334E+22
-1659	3,780289E+22	3,780231E+22	9,649149E+21	9,650145E+21	7,560520E+22	1,929929E+22	9,490450E+22
-1658	3,780141E+22	3,780093E+22	9,649821E+21	9,649775E+21	7,560234E+22	1,929960E+22	9,490194E+22
-1657	3,780078E+22	3,780129E+22	9,650530E+21	9,650314E+21	7,560207E+22	1,930084E+22	9,490292E+22
-1656	3,780183E+22	3,780009E+22	9,650275E+21	9,650989E+21	7,560193E+22	1,930126E+22	9,490319E+22
-1655	3,779937E+22	3,780012E+22	9,651355E+21	9,650607E+21	7,559949E+22	1,930196E+22	9,490145E+22
-1654	3,779954E+22	3,780038E+22	9,651320E+21	9,651604E+21	7,559991E+22	1,930292E+22	9,490284E+22
-1653	3,779951E+22	3,779872E+22	9,651148E+21	9,651569E+21	7,559823E+22	1,930272E+22	9,490095E+22
-1652	3,779778E+22	3,779938E+22	9,651961E+21	9,651078E+21	7,559717E+22	1,930304E+22	9,490021E+22
-1651	3,779974E+22	3,779934E+22	9,651107E+21	9,651728E+21	7,559908E+22	1,930283E+22	9,490192E+22
-1650	3,779960E+22	3,779853E+22	9,650980E+21	9,650872E+21	7,559814E+22	1,930185E+22	9,489999E+22
-1649	3,779917E+22	3,780025E+22	9,651132E+21	9,650585E+21	7,559942E+22	1,930172E+22	9,490114E+22
-1648	3,780123E+22	3,780034E+22	9,650038E+21	9,650908E+21	7,560157E+22	1,930095E+22	9,490252E+22
-1647	3,780017E+22	3,780082E+22	9,650278E+21	9,649778E+21	7,560100E+22	1,930006E+22	9,490105E+22
-1646	3,780093E+22	3,780202E+22	9,650049E+21	9,649996E+21	7,560295E+22	1,930004E+22	9,490299E+22
-1645	3,780222E+22	3,780098E+22	9,649414E+21	9,649822E+21	7,560321E+22	1,929924E+22	9,490244E+22
-1644	3,780080E+22	3,780176E+22	9,650188E+21	9,649182E+21	7,560256E+22	1,929937E+22	9,490193E+22
-1643	3,780188E+22	3,780215E+22	9,649703E+21	9,650138E+21	7,560403E+22	1,929984E+22	9,490387E+22
-1642	3,780163E+22	3,780064E+22	9,649618E+21	9,649990E+21	7,560226E+22	1,929961E+22	9,490187E+22
-1641	3,780005E+22	3,780131E+22	9,650491E+21	9,649981E+21	7,560137E+22	1,930047E+22	9,490184E+22
-1640	3,780139E+22	3,780059E+22	9,650091E+21	9,651019E+21	7,560198E+22	1,930111E+22	9,490309E+22
-1639	3,780017E+22	3,779950E+22	9,650849E+21	9,650576E+21	7,559967E+22	1,930143E+22	9,490110E+22
-1638	3,779926E+22	3,780015E+22	9,651584E+21	9,651228E+21	7,559941E+22	1,930281E+22	9,490222E+22
-1637	3,779978E+22	3,779864E+22	9,651299E+21	9,652022E+21	7,559843E+22	1,930332E+22	9,490175E+22
-1636	3,779753E+22	3,779845E+22	9,652370E+21	9,651661E+21	7,559597E+22	1,930403E+22	9,490000E+22
-1635	3,779764E+22	3,779878E+22	9,652278E+21	9,652571E+21	7,559642E+22	1,930485E+22	9,490127E+22
-1634	3,779819E+22	3,779685E+22	9,651916E+21	9,652456E+21	7,559504E+22	1,930437E+22	9,489941E+22
-1633	3,779682E+22	3,779765E+22	9,652625E+21	9,651771E+21	7,559447E+22	1,930440E+22	9,489887E+22
-1632	3,779857E+22	3,779802E+22	9,651854E+21	9,652472E+21	7,559659E+22	1,930433E+22	9,490092E+22
-1631	3,779845E+22	3,779765E+22	9,651681E+21	9,651597E+21	7,559610E+22	1,930328E+22	9,489938E+22
-1630	3,779783E+22	3,779951E+22	9,651829E+21	9,651337E+21	7,559734E+22	1,930317E+22	9,490050E+22
-1629	3,779975E+22	3,779908E+22	9,650786E+21	9,651604E+21	7,559882E+22	1,930239E+22	9,490121E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1628	3,779908E+22	3,779929E+22	9,651114E+21	9,650423E+21	7,559837E+22	1,930154E+22	9,489991E+22
-1627	3,779963E+22	3,780070E+22	9,650938E+21	9,650676E+21	7,560032E+22	1,930161E+22	9,490193E+22
-1626	3,780098E+22	3,779948E+22	9,650155E+21	9,650677E+21	7,560046E+22	1,930083E+22	9,490129E+22
-1625	3,779938E+22	3,780028E+22	9,650859E+21	9,650061E+21	7,559966E+22	1,930092E+22	9,490058E+22
-1624	3,780018E+22	3,780073E+22	9,650522E+21	9,651107E+21	7,560091E+22	1,930163E+22	9,490254E+22
-1623	3,780020E+22	3,779925E+22	9,650495E+21	9,650876E+21	7,559944E+22	1,930137E+22	9,490081E+22
-1622	3,779870E+22	3,779997E+22	9,651440E+21	9,650856E+21	7,559867E+22	1,930230E+22	9,490097E+22
-1621	3,779984E+22	3,779886E+22	9,651147E+21	9,651932E+21	7,559869E+22	1,930308E+22	9,490177E+22
-1620	3,779867E+22	3,779781E+22	9,651958E+21	9,651607E+21	7,559648E+22	1,930357E+22	9,490004E+22
-1619	3,779725E+22	3,779874E+22	9,652655E+21	9,652322E+21	7,559600E+22	1,930498E+22	9,490097E+22
-1618	3,779794E+22	3,779685E+22	9,652183E+21	9,653142E+21	7,559479E+22	1,930533E+22	9,490011E+22
-1617	3,779600E+22	3,779654E+22	9,653161E+21	9,652551E+21	7,559254E+22	1,930571E+22	9,489825E+22
-1616	3,779619E+22	3,779701E+22	9,653157E+21	9,653355E+21	7,559320E+22	1,930651E+22	9,489971E+22
-1615	3,779709E+22	3,779548E+22	9,652760E+21	9,653144E+21	7,559257E+22	1,930590E+22	9,489848E+22
-1614	3,779566E+22	3,779671E+22	9,653387E+21	9,652520E+21	7,559237E+22	1,930591E+22	9,489828E+22
-1613	3,779699E+22	3,779687E+22	9,652620E+21	9,653262E+21	7,559386E+22	1,930588E+22	9,489974E+22
-1612	3,779715E+22	3,779647E+22	9,652464E+21	9,652376E+21	7,559362E+22	1,930484E+22	9,489846E+22
-1611	3,779641E+22	3,779838E+22	9,652626E+21	9,652011E+21	7,559478E+22	1,930464E+22	9,489942E+22
-1610	3,779859E+22	3,779758E+22	9,651490E+21	9,652287E+21	7,559617E+22	1,930378E+22	9,489995E+22
-1609	3,779808E+22	3,779776E+22	9,651792E+21	9,651078E+21	7,559584E+22	1,930287E+22	9,489871E+22
-1608	3,779815E+22	3,779937E+22	9,651737E+21	9,651503E+21	7,559751E+22	1,930324E+22	9,490075E+22
-1607	3,779946E+22	3,779834E+22	9,650933E+21	9,651586E+21	7,559781E+22	1,930252E+22	9,490033E+22
-1606	3,779787E+22	3,779908E+22	9,651627E+21	9,651009E+21	7,559694E+22	1,930264E+22	9,489958E+22
-1605	3,779857E+22	3,779898E+22	9,651419E+21	9,652003E+21	7,559755E+22	1,930342E+22	9,490097E+22
-1604	3,779903E+22	3,779746E+22	9,651492E+21	9,651739E+21	7,559649E+22	1,930323E+22	9,489972E+22
-1603	3,779725E+22	3,779850E+22	9,652509E+21	9,651734E+21	7,559575E+22	1,930424E+22	9,489999E+22
-1602	3,779829E+22	3,779728E+22	9,652104E+21	9,652964E+21	7,559558E+22	1,930507E+22	9,490064E+22
-1601	3,779698E+22	3,779623E+22	9,652844E+21	9,652618E+21	7,559321E+22	1,930546E+22	9,489867E+22
-1600	3,779528E+22	3,779720E+22	9,653635E+21	9,653345E+21	7,559248E+22	1,930698E+22	9,489946E+22
-1599	3,779633E+22	3,779532E+22	9,653125E+21	9,654027E+21	7,559165E+22	1,930715E+22	9,489880E+22
-1598	3,779464E+22	3,779505E+22	9,654057E+21	9,653370E+21	7,558968E+22	1,930743E+22	9,489711E+22
-1597	3,779476E+22	3,779527E+22	9,654098E+21	9,654174E+21	7,559003E+22	1,930827E+22	9,489830E+22
-1596	3,779581E+22	3,779402E+22	9,653653E+21	9,654016E+21	7,558983E+22	1,930767E+22	9,489750E+22
-1595	3,779403E+22	3,779566E+22	9,654207E+21	9,653392E+21	7,558969E+22	1,930760E+22	9,489729E+22
-1594	3,779562E+22	3,779548E+22	9,653282E+21	9,654103E+21	7,559110E+22	1,930739E+22	9,489849E+22
-1593	3,779602E+22	3,779499E+22	9,653073E+21	9,652998E+21	7,559101E+22	1,930607E+22	9,489708E+22
-1592	3,779519E+22	3,779706E+22	9,653368E+21	9,652611E+21	7,559225E+22	1,930598E+22	9,489823E+22
-1591	3,779748E+22	3,779648E+22	9,652233E+21	9,652897E+21	7,559396E+22	1,930513E+22	9,489909E+22
-1590	3,779677E+22	3,779682E+22	9,652504E+21	9,651862E+21	7,559359E+22	1,930437E+22	9,489796E+22
-1589	3,779646E+22	3,779796E+22	9,652538E+21	9,652403E+21	7,559442E+22	1,930494E+22	9,489936E+22
-1588	3,779804E+22	3,779684E+22	9,651792E+21	9,652522E+21	7,559488E+22	1,930431E+22	9,489919E+22
-1587	3,779642E+22	3,779765E+22	9,652533E+21	9,651873E+21	7,559407E+22	1,930441E+22	9,489848E+22
-1586	3,779742E+22	3,779718E+22	9,652292E+21	9,652877E+21	7,559460E+22	1,930517E+22	9,489977E+22
-1585	3,779788E+22	3,779577E+22	9,652392E+21	9,652591E+21	7,559366E+22	1,930498E+22	9,489864E+22
-1584	3,779552E+22	3,779711E+22	9,653539E+21	9,652740E+21	7,559263E+22	1,930628E+22	9,489891E+22
-1583	3,779640E+22	3,779602E+22	9,653113E+21	9,654000E+21	7,559242E+22	1,930711E+22	9,489953E+22
-1582	3,779514E+22	3,779482E+22	9,653820E+21	9,653661E+21	7,558995E+22	1,930748E+22	9,489743E+22
-1581	3,779337E+22	3,779518E+22	9,654682E+21	9,654288E+21	7,558855E+22	1,930897E+22	9,489752E+22
-1580	3,779491E+22	3,779342E+22	9,654164E+21	9,654917E+21	7,558833E+22	1,930908E+22	9,489741E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1579	3,779317E+22	3,779352E+22	9,655011E+21	9,654231E+21	7,558669E+22	1,930924E+22	9,489594E+22
-1578	3,779334E+22	3,779373E+22	9,654867E+21	9,655112E+21	7,558708E+22	1,930998E+22	9,489705E+22
-1577	3,779448E+22	3,779271E+22	9,654312E+21	9,654844E+21	7,558719E+22	1,930916E+22	9,489634E+22
-1576	3,779255E+22	3,779451E+22	9,654940E+21	9,654156E+21	7,558706E+22	1,930910E+22	9,489616E+22
-1575	3,779442E+22	3,779442E+22	9,654004E+21	9,654698E+21	7,558884E+22	1,930870E+22	9,489755E+22
-1574	3,779498E+22	3,779391E+22	9,653784E+21	9,653588E+21	7,558889E+22	1,930737E+22	9,489626E+22
-1573	3,779381E+22	3,779559E+22	9,654191E+21	9,653308E+21	7,558940E+22	1,930750E+22	9,489690E+22
-1572	3,779608E+22	3,779520E+22	9,653049E+21	9,653751E+21	7,559128E+22	1,930680E+22	9,489808E+22
-1571	3,779514E+22	3,779562E+22	9,653292E+21	9,652785E+21	7,559076E+22	1,930608E+22	9,489683E+22
-1570	3,779513E+22	3,779627E+22	9,653255E+21	9,653333E+21	7,559140E+22	1,930659E+22	9,489799E+22
-1569	3,779701E+22	3,779512E+22	9,652527E+21	9,653271E+21	7,559212E+22	1,930580E+22	9,489792E+22
-1568	3,779523E+22	3,779620E+22	9,653436E+21	9,652643E+21	7,559143E+22	1,930608E+22	9,489751E+22
-1567	3,779614E+22	3,779602E+22	9,653237E+21	9,653672E+21	7,559216E+22	1,930691E+22	9,489907E+22
-1566	3,779623E+22	3,779474E+22	9,653337E+21	9,653558E+21	7,559097E+22	1,930690E+22	9,489787E+22
-1565	3,779340E+22	3,779553E+22	9,654615E+21	9,653823E+21	7,558893E+22	1,930844E+22	9,489737E+22
-1564	3,779446E+22	3,779427E+22	9,654204E+21	9,655064E+21	7,558874E+22	1,930927E+22	9,489800E+22
-1563	3,779328E+22	3,779303E+22	9,654888E+21	9,654658E+21	7,558631E+22	1,930955E+22	9,489585E+22
-1562	3,779200E+22	3,779301E+22	9,655607E+21	9,655272E+21	7,558501E+22	1,931088E+22	9,489588E+22
-1561	3,779368E+22	3,779153E+22	9,655000E+21	9,655814E+21	7,558521E+22	1,931081E+22	9,489602E+22
-1560	3,779165E+22	3,779221E+22	9,655834E+21	9,655187E+21	7,558386E+22	1,931102E+22	9,489488E+22
-1559	3,779190E+22	3,779267E+22	9,655614E+21	9,655949E+21	7,558458E+22	1,931156E+22	9,489614E+22
-1558	3,779315E+22	3,779170E+22	9,655028E+21	9,655569E+21	7,558484E+22	1,931060E+22	9,489544E+22
-1557	3,779114E+22	3,779302E+22	9,655777E+21	9,654788E+21	7,558416E+22	1,931057E+22	9,489472E+22
-1556	3,779320E+22	3,779307E+22	9,654870E+21	9,655304E+21	7,558627E+22	1,931017E+22	9,489645E+22
-1555	3,779357E+22	3,779278E+22	9,654616E+21	9,654307E+21	7,558635E+22	1,930892E+22	9,489527E+22
-1554	3,779243E+22	3,779411E+22	9,654870E+21	9,654193E+21	7,558654E+22	1,930906E+22	9,489560E+22
-1553	3,779480E+22	3,779376E+22	9,653689E+21	9,654594E+21	7,558855E+22	1,930828E+22	9,489684E+22
-1552	3,779382E+22	3,779432E+22	9,654012E+21	9,653618E+21	7,558814E+22	1,930763E+22	9,489577E+22
-1551	3,779407E+22	3,779504E+22	9,654018E+21	9,654034E+21	7,558911E+22	1,930805E+22	9,489716E+22
-1550	3,779600E+22	3,779397E+22	9,653368E+21	9,654007E+21	7,558997E+22	1,930737E+22	9,489734E+22
-1549	3,779365E+22	3,779468E+22	9,654473E+21	9,653537E+21	7,558833E+22	1,930801E+22	9,489634E+22
-1548	3,779424E+22	3,779470E+22	9,654318E+21	9,654711E+21	7,558894E+22	1,930903E+22	9,489797E+22
-1547	3,779411E+22	3,779327E+22	9,654403E+21	9,654689E+21	7,558739E+22	1,930909E+22	9,489648E+22
-1546	3,779156E+22	3,779334E+22	9,655575E+21	9,654946E+21	7,558490E+22	1,931052E+22	9,489542E+22
-1545	3,779301E+22	3,779210E+22	9,655114E+21	9,655996E+21	7,558511E+22	1,931111E+22	9,489622E+22
-1544	3,779189E+22	3,779120E+22	9,655823E+21	9,655569E+21	7,558310E+22	1,931139E+22	9,489449E+22
-1543	3,779073E+22	3,779162E+22	9,656462E+21	9,656130E+21	7,558235E+22	1,931259E+22	9,489494E+22
-1542	3,779228E+22	3,779053E+22	9,655797E+21	9,656696E+21	7,558281E+22	1,931249E+22	9,489530E+22
-1541	3,778992E+22	3,779090E+22	9,656736E+21	9,656068E+21	7,558082E+22	1,931280E+22	9,489362E+22
-1540	3,779035E+22	3,779147E+22	9,656528E+21	9,656703E+21	7,558182E+22	1,931323E+22	9,489505E+22
-1539	3,779166E+22	3,779047E+22	9,655923E+21	9,656260E+21	7,558212E+22	1,931218E+22	9,489431E+22
-1538	3,778994E+22	3,779126E+22	9,656558E+21	9,655540E+21	7,558121E+22	1,931210E+22	9,489331E+22
-1537	3,779199E+22	3,779151E+22	9,655568E+21	9,656050E+21	7,558350E+22	1,931162E+22	9,489512E+22
-1536	3,779209E+22	3,779159E+22	9,655297E+21	9,655203E+21	7,558368E+22	1,931050E+22	9,489417E+22
-1535	3,779120E+22	3,779295E+22	9,655483E+21	9,655019E+21	7,558415E+22	1,931050E+22	9,489465E+22
-1534	3,779372E+22	3,779261E+22	9,654337E+21	9,655313E+21	7,558632E+22	1,930965E+22	9,489597E+22
-1533	3,779265E+22	3,779283E+22	9,654852E+21	9,654315E+21	7,558547E+22	1,930917E+22	9,489464E+22
-1532	3,779287E+22	3,779376E+22	9,654958E+21	9,654724E+21	7,558663E+22	1,930968E+22	9,489631E+22
-1531	3,779433E+22	3,779286E+22	9,654365E+21	9,654878E+21	7,558719E+22	1,930924E+22	9,489644E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1530	3,779189E+22	3,779302E+22	9,655399E+21	9,654630E+21	7,558490E+22	1,931003E+22	9,489493E+22
-1529	3,779243E+22	3,779288E+22	9,655237E+21	9,655749E+21	7,558531E+22	1,931099E+22	9,489630E+22
-1528	3,779233E+22	3,779152E+22	9,655367E+21	9,655741E+21	7,558385E+22	1,931111E+22	9,489496E+22
-1527	3,779024E+22	3,779150E+22	9,656481E+21	9,655846E+21	7,558175E+22	1,931233E+22	9,489407E+22
-1526	3,779181E+22	3,779048E+22	9,656026E+21	9,656864E+21	7,558230E+22	1,931289E+22	9,489519E+22
-1525	3,779030E+22	3,778957E+22	9,656837E+21	9,656540E+21	7,557987E+22	1,931338E+22	9,489325E+22
-1524	3,778896E+22	3,779042E+22	9,657456E+21	9,657107E+21	7,557938E+22	1,931456E+22	9,489394E+22
-1523	3,779041E+22	3,778937E+22	9,656792E+21	9,657654E+21	7,557979E+22	1,931445E+22	9,489423E+22
-1522	3,778839E+22	3,778911E+22	9,657608E+21	9,656958E+21	7,557749E+22	1,931457E+22	9,489206E+22
-1521	3,778906E+22	3,778974E+22	9,657341E+21	9,657385E+21	7,557880E+22	1,931473E+22	9,489353E+22
-1520	3,779035E+22	3,778907E+22	9,656705E+21	9,656992E+21	7,557941E+22	1,931370E+22	9,489311E+22
-1519	3,778875E+22	3,779005E+22	9,657200E+21	9,656284E+21	7,557880E+22	1,931348E+22	9,489229E+22
-1518	3,779076E+22	3,779055E+22	9,656158E+21	9,656829E+21	7,558131E+22	1,931299E+22	9,489430E+22
-1517	3,779068E+22	3,779026E+22	9,656015E+21	9,656000E+21	7,558094E+22	1,931202E+22	9,489295E+22
-1516	3,778996E+22	3,779181E+22	9,656256E+21	9,655703E+21	7,558177E+22	1,931196E+22	9,489373E+22
-1515	3,779255E+22	3,779145E+22	9,655201E+21	9,655982E+21	7,558400E+22	1,931118E+22	9,489518E+22
-1514	3,779152E+22	3,779112E+22	9,655697E+21	9,655124E+21	7,558264E+22	1,931082E+22	9,489346E+22
-1513	3,779144E+22	3,779226E+22	9,655817E+21	9,655583E+21	7,558370E+22	1,931140E+22	9,489510E+22
-1512	3,779250E+22	3,779152E+22	9,655260E+21	9,655929E+21	7,558402E+22	1,931119E+22	9,489521E+22
-1511	3,779026E+22	3,779141E+22	9,656257E+21	9,655648E+21	7,558167E+22	1,931190E+22	9,489357E+22
-1510	3,779097E+22	3,779123E+22	9,656118E+21	9,656652E+21	7,558219E+22	1,931277E+22	9,489496E+22
-1509	3,779079E+22	3,778955E+22	9,656406E+21	9,656652E+21	7,558035E+22	1,931306E+22	9,489340E+22
-1508	3,778877E+22	3,778996E+22	9,657527E+21	9,656735E+21	7,557873E+22	1,931426E+22	9,489299E+22
-1507	3,779007E+22	3,778923E+22	9,657086E+21	9,657864E+21	7,557930E+22	1,931495E+22	9,489425E+22
-1506	3,778857E+22	3,778792E+22	9,657783E+21	9,657653E+21	7,557649E+22	1,931544E+22	9,489193E+22
-1505	3,778729E+22	3,778881E+22	9,658358E+21	9,658048E+21	7,557610E+22	1,931641E+22	9,489251E+22
-1504	3,778878E+22	3,778793E+22	9,657692E+21	9,658536E+21	7,557671E+22	1,931623E+22	9,489294E+22
-1503	3,778724E+22	3,778754E+22	9,658393E+21	9,657703E+21	7,557479E+22	1,931610E+22	9,489088E+22
-1502	3,778791E+22	3,778836E+22	9,658071E+21	9,658062E+21	7,557627E+22	1,931613E+22	9,489240E+22
-1501	3,778882E+22	3,778768E+22	9,657494E+21	9,657821E+21	7,557650E+22	1,931532E+22	9,489181E+22
-1500	3,778726E+22	3,778894E+22	9,657916E+21	9,657095E+21	7,557620E+22	1,931501E+22	9,489121E+22
-1499	3,778930E+22	3,778942E+22	9,656926E+21	9,657611E+21	7,557873E+22	1,931454E+22	9,489326E+22
-1498	3,778960E+22	3,778861E+22	9,656718E+21	9,656747E+21	7,557821E+22	1,931346E+22	9,489167E+22
-1497	3,778904E+22	3,779026E+22	9,656997E+21	9,656293E+21	7,557929E+22	1,931329E+22	9,489258E+22
-1496	3,779132E+22	3,779029E+22	9,656023E+21	9,656698E+21	7,558160E+22	1,931272E+22	9,489433E+22
-1495	3,779022E+22	3,778995E+22	9,656462E+21	9,655967E+21	7,558017E+22	1,931243E+22	9,489260E+22
-1494	3,778983E+22	3,779110E+22	9,656618E+21	9,656478E+21	7,558094E+22	1,931310E+22	9,489403E+22
-1493	3,779063E+22	3,778993E+22	9,656239E+21	9,656935E+21	7,558055E+22	1,931317E+22	9,489373E+22
-1492	3,778859E+22	3,778982E+22	9,657265E+21	9,656570E+21	7,557841E+22	1,931384E+22	9,489224E+22
-1491	3,778943E+22	3,778956E+22	9,657214E+21	9,657593E+21	7,557899E+22	1,931481E+22	9,489380E+22
-1490	3,778935E+22	3,778749E+22	9,657422E+21	9,657722E+21	7,557684E+22	1,931514E+22	9,489199E+22
-1489	3,778716E+22	3,778825E+22	9,658488E+21	9,657799E+21	7,557541E+22	1,931629E+22	9,489169E+22
-1488	3,778822E+22	3,778785E+22	9,658051E+21	9,658988E+21	7,557606E+22	1,931704E+22	9,489310E+22
-1487	3,778704E+22	3,778636E+22	9,658645E+21	9,658635E+21	7,557340E+22	1,931728E+22	9,489068E+22
-1486	3,778595E+22	3,778734E+22	9,659192E+21	9,658796E+21	7,557329E+22	1,931799E+22	9,489128E+22
-1485	3,778732E+22	3,778624E+22	9,658627E+21	9,659261E+21	7,557356E+22	1,931789E+22	9,489145E+22
-1484	3,778577E+22	3,778626E+22	9,659261E+21	9,658406E+21	7,557203E+22	1,931767E+22	9,488969E+22
-1483	3,778633E+22	3,778727E+22	9,658904E+21	9,658876E+21	7,557360E+22	1,931778E+22	9,489138E+22
-1482	3,778735E+22	3,778612E+22	9,658197E+21	9,658726E+21	7,557347E+22	1,931692E+22	9,489039E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1481	3,778605E+22	3,778752E+22	9,658570E+21	9,657841E+21	7,557357E+22	1,931641E+22	9,488998E+22
-1480	3,778819E+22	3,778821E+22	9,657637E+21	9,658295E+21	7,557640E+22	1,931593E+22	9,489233E+22
-1479	3,778884E+22	3,778730E+22	9,657388E+21	9,657374E+21	7,557613E+22	1,931476E+22	9,489090E+22
-1478	3,778803E+22	3,778917E+22	9,657713E+21	9,656927E+21	7,557720E+22	1,931464E+22	9,489184E+22
-1477	3,778961E+22	3,778909E+22	9,656907E+21	9,657574E+21	7,557870E+22	1,931448E+22	9,489318E+22
-1476	3,778837E+22	3,778880E+22	9,657372E+21	9,656924E+21	7,557717E+22	1,931430E+22	9,489147E+22
-1475	3,778802E+22	3,778964E+22	9,657623E+21	9,657465E+21	7,557766E+22	1,931509E+22	9,489275E+22
-1474	3,778911E+22	3,778779E+22	9,657198E+21	9,657951E+21	7,557690E+22	1,931515E+22	9,489205E+22
-1473	3,778732E+22	3,778779E+22	9,658197E+21	9,657479E+21	7,557511E+22	1,931568E+22	9,489079E+22
-1472	3,778793E+22	3,778799E+22	9,658189E+21	9,658598E+21	7,557591E+22	1,931679E+22	9,489270E+22
-1471	3,778795E+22	3,778603E+22	9,658291E+21	9,658781E+21	7,557398E+22	1,931707E+22	9,489106E+22
-1470	3,778558E+22	3,778691E+22	9,659365E+21	9,658749E+21	7,557250E+22	1,931811E+22	9,489061E+22
-1469	3,778635E+22	3,778633E+22	9,659097E+21	9,659933E+21	7,557268E+22	1,931903E+22	9,489171E+22
-1468	3,778540E+22	3,778494E+22	9,659663E+21	9,659433E+21	7,557034E+22	1,931910E+22	9,488944E+22
-1467	3,778437E+22	3,778581E+22	9,660234E+21	9,659586E+21	7,557018E+22	1,931982E+22	9,489000E+22
-1466	3,778576E+22	3,778439E+22	9,659521E+21	9,660182E+21	7,557015E+22	1,931970E+22	9,488985E+22
-1465	3,778424E+22	3,778466E+22	9,660009E+21	9,659312E+21	7,556889E+22	1,931932E+22	9,488821E+22
-1464	3,778478E+22	3,778596E+22	9,659633E+21	9,659791E+21	7,557074E+22	1,931942E+22	9,489016E+22
-1463	3,778634E+22	3,778473E+22	9,658807E+21	9,659493E+21	7,557106E+22	1,931830E+22	9,488936E+22
-1462	3,778523E+22	3,778631E+22	9,659178E+21	9,658380E+21	7,557154E+22	1,931756E+22	9,488910E+22
-1461	3,778706E+22	3,778701E+22	9,658442E+21	9,658883E+21	7,557407E+22	1,931732E+22	9,489140E+22
-1460	3,778747E+22	3,778645E+22	9,658203E+21	9,658033E+21	7,557392E+22	1,931624E+22	9,489016E+22
-1459	3,778635E+22	3,778824E+22	9,658613E+21	9,657791E+21	7,557458E+22	1,931640E+22	9,489099E+22
-1458	3,778782E+22	3,778745E+22	9,657773E+21	9,658594E+21	7,557528E+22	1,931637E+22	9,489164E+22
-1457	3,778682E+22	3,778702E+22	9,658232E+21	9,657885E+21	7,557384E+22	1,931612E+22	9,488996E+22
-1456	3,778662E+22	3,778789E+22	9,658549E+21	9,658404E+21	7,557451E+22	1,931695E+22	9,489147E+22
-1455	3,778808E+22	3,778593E+22	9,658055E+21	9,658870E+21	7,557400E+22	1,931692E+22	9,489093E+22
-1454	3,778612E+22	3,778631E+22	9,659041E+21	9,658372E+21	7,557243E+22	1,931741E+22	9,488985E+22
-1453	3,778611E+22	3,778657E+22	9,659195E+21	9,659639E+21	7,557268E+22	1,931883E+22	9,489151E+22
-1452	3,778599E+22	3,778481E+22	9,659328E+21	9,659779E+21	7,557080E+22	1,931911E+22	9,488990E+22
-1451	3,778374E+22	3,778548E+22	9,660485E+21	9,659708E+21	7,556922E+22	1,932019E+22	9,488941E+22
-1450	3,778464E+22	3,778427E+22	9,660152E+21	9,660853E+21	7,556891E+22	1,932101E+22	9,488992E+22
-1449	3,778389E+22	3,778305E+22	9,660622E+21	9,660285E+21	7,556694E+22	1,932091E+22	9,488785E+22
-1448	3,778273E+22	3,778428E+22	9,661119E+21	9,660511E+21	7,556701E+22	1,932163E+22	9,488864E+22
-1447	3,778437E+22	3,778292E+22	9,660200E+21	9,661133E+21	7,556729E+22	1,932133E+22	9,488862E+22
-1446	3,778301E+22	3,778343E+22	9,660601E+21	9,660098E+21	7,556644E+22	1,932070E+22	9,488714E+22
-1445	3,778346E+22	3,778470E+22	9,660381E+21	9,660523E+21	7,556816E+22	1,932090E+22	9,488906E+22
-1444	3,778523E+22	3,778376E+22	9,659578E+21	9,660063E+21	7,556899E+22	1,931964E+22	9,488863E+22
-1443	3,778414E+22	3,778527E+22	9,660046E+21	9,659005E+21	7,556941E+22	1,931905E+22	9,488846E+22
-1442	3,778561E+22	3,778559E+22	9,659273E+21	9,659690E+21	7,557120E+22	1,931896E+22	9,489017E+22
-1441	3,778587E+22	3,778508E+22	9,658981E+21	9,658948E+21	7,557096E+22	1,931793E+22	9,488889E+22
-1440	3,778462E+22	3,778679E+22	9,659443E+21	9,658774E+21	7,557141E+22	1,931822E+22	9,488963E+22
-1439	3,778660E+22	3,778571E+22	9,658523E+21	9,659514E+21	7,557231E+22	1,931804E+22	9,489034E+22
-1438	3,778583E+22	3,778530E+22	9,658976E+21	9,658615E+21	7,557114E+22	1,931759E+22	9,488873E+22
-1437	3,778529E+22	3,778628E+22	9,659500E+21	9,659228E+21	7,557157E+22	1,931873E+22	9,489030E+22
-1436	3,778652E+22	3,778482E+22	9,659025E+21	9,659742E+21	7,557133E+22	1,931877E+22	9,489010E+22
-1435	3,778430E+22	3,778515E+22	9,660113E+21	9,659402E+21	7,556945E+22	1,931951E+22	9,488896E+22
-1434	3,778409E+22	3,778486E+22	9,660274E+21	9,660740E+21	7,556895E+22	1,932101E+22	9,488996E+22
-1433	3,778417E+22	3,778302E+22	9,660385E+21	9,660796E+21	7,556719E+22	1,932118E+22	9,488837E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1432	3,778203E+22	3,778365E+22	9,661558E+21	9,660683E+21	7,556568E+22	1,932224E+22	9,488792E+22
-1431	3,778328E+22	3,778233E+22	9,661051E+21	9,661808E+21	7,556561E+22	1,932286E+22	9,488847E+22
-1430	3,778249E+22	3,778144E+22	9,661381E+21	9,661184E+21	7,556393E+22	1,932257E+22	9,488650E+22
-1429	3,778101E+22	3,778284E+22	9,661936E+21	9,661493E+21	7,556385E+22	1,932343E+22	9,488728E+22
-1428	3,778282E+22	3,778182E+22	9,660981E+21	9,661949E+21	7,556464E+22	1,932293E+22	9,488757E+22
-1427	3,778183E+22	3,778228E+22	9,661428E+21	9,660814E+21	7,556411E+22	1,932224E+22	9,488635E+22
-1426	3,778233E+22	3,778316E+22	9,661187E+21	9,661168E+21	7,556549E+22	1,932235E+22	9,488784E+22
-1425	3,778410E+22	3,778248E+22	9,660355E+21	9,660695E+21	7,556658E+22	1,932105E+22	9,488763E+22
-1424	3,778272E+22	3,778418E+22	9,660835E+21	9,659792E+21	7,556690E+22	1,932063E+22	9,488753E+22
-1423	3,778419E+22	3,778427E+22	9,659942E+21	9,660551E+21	7,556846E+22	1,932049E+22	9,488895E+22
-1422	3,778453E+22	3,778375E+22	9,659627E+21	9,659744E+21	7,556829E+22	1,931937E+22	9,488766E+22
-1421	3,778321E+22	3,778524E+22	9,660260E+21	9,659597E+21	7,556845E+22	1,931986E+22	9,488831E+22
-1420	3,778531E+22	3,778435E+22	9,659407E+21	9,660239E+21	7,556966E+22	1,931965E+22	9,488931E+22
-1419	3,778461E+22	3,778395E+22	9,659952E+21	9,659470E+21	7,556857E+22	1,931942E+22	9,488799E+22
-1418	3,778360E+22	3,778464E+22	9,660479E+21	9,660254E+21	7,556824E+22	1,932073E+22	9,488897E+22
-1417	3,778465E+22	3,778331E+22	9,660018E+21	9,660848E+21	7,556796E+22	1,932087E+22	9,488882E+22
-1416	3,778237E+22	3,778352E+22	9,661183E+21	9,660531E+21	7,556590E+22	1,932171E+22	9,488761E+22
-1415	3,778251E+22	3,778292E+22	9,661243E+21	9,661755E+21	7,556542E+22	1,932300E+22	9,488842E+22
-1414	3,778282E+22	3,778116E+22	9,661288E+21	9,661648E+21	7,556398E+22	1,932294E+22	9,488691E+22
-1413	3,778040E+22	3,778188E+22	9,662539E+21	9,661615E+21	7,556228E+22	1,932415E+22	9,488644E+22
-1412	3,778155E+22	3,778107E+22	9,661960E+21	9,662707E+21	7,556262E+22	1,932467E+22	9,488729E+22
-1411	3,778089E+22	3,778021E+22	9,662274E+21	9,662143E+21	7,556110E+22	1,932442E+22	9,488552E+22
-1410	3,777942E+22	3,778124E+22	9,662785E+21	9,662405E+21	7,556066E+22	1,932519E+22	9,488585E+22
-1409	3,778158E+22	3,778039E+22	9,661810E+21	9,662701E+21	7,556197E+22	1,932451E+22	9,488648E+22
-1408	3,778069E+22	3,778092E+22	9,662282E+21	9,661500E+21	7,556161E+22	1,932378E+22	9,488539E+22
-1407	3,778133E+22	3,778177E+22	9,661905E+21	9,661860E+21	7,556310E+22	1,932377E+22	9,488686E+22
-1406	3,778285E+22	3,778130E+22	9,660974E+21	9,661395E+21	7,556415E+22	1,932237E+22	9,488652E+22
-1405	3,778101E+22	3,778292E+22	9,661578E+21	9,660665E+21	7,556393E+22	1,932224E+22	9,488617E+22
-1404	3,778259E+22	3,778313E+22	9,660709E+21	9,661322E+21	7,556572E+22	1,932203E+22	9,488775E+22
-1403	3,778330E+22	3,778235E+22	9,660478E+21	9,660525E+21	7,556566E+22	1,932100E+22	9,488666E+22
-1402	3,778195E+22	3,778345E+22	9,661129E+21	9,660402E+21	7,556540E+22	1,932153E+22	9,488693E+22
-1401	3,778403E+22	3,778283E+22	9,660305E+21	9,661095E+21	7,556686E+22	1,932140E+22	9,488826E+22
-1400	3,778301E+22	3,778263E+22	9,660897E+21	9,660487E+21	7,556564E+22	1,932138E+22	9,488702E+22
-1399	3,778200E+22	3,778310E+22	9,661348E+21	9,661316E+21	7,556510E+22	1,932266E+22	9,488777E+22
-1398	3,778305E+22	3,778176E+22	9,660897E+21	9,661806E+21	7,556481E+22	1,932270E+22	9,488751E+22
-1397	3,778066E+22	3,778178E+22	9,662236E+21	9,661520E+21	7,556245E+22	1,932376E+22	9,488620E+22
-1396	3,778089E+22	3,778134E+22	9,662307E+21	9,662599E+21	7,556223E+22	1,932491E+22	9,488713E+22
-1395	3,778130E+22	3,777958E+22	9,662358E+21	9,662625E+21	7,556088E+22	1,932498E+22	9,488586E+22
-1394	3,777854E+22	3,778005E+22	9,663499E+21	9,662697E+21	7,555860E+22	1,932620E+22	9,488479E+22
-1393	3,777977E+22	3,777948E+22	9,662870E+21	9,663752E+21	7,555925E+22	1,932662E+22	9,488587E+22
-1392	3,777938E+22	3,777870E+22	9,663177E+21	9,663092E+21	7,555809E+22	1,932627E+22	9,488435E+22
-1391	3,777837E+22	3,777957E+22	9,663540E+21	9,663148E+21	7,555794E+22	1,932669E+22	9,488463E+22
-1390	3,778063E+22	3,777904E+22	9,662507E+21	9,663258E+21	7,555967E+22	1,932577E+22	9,488544E+22
-1389	3,777937E+22	3,777976E+22	9,663051E+21	9,662191E+21	7,555913E+22	1,932524E+22	9,488437E+22
-1388	3,777968E+22	3,778094E+22	9,662641E+21	9,662537E+21	7,556061E+22	1,932518E+22	9,488579E+22
-1387	3,778129E+22	3,778031E+22	9,661740E+21	9,662227E+21	7,556161E+22	1,932397E+22	9,488557E+22
-1386	3,777943E+22	3,778130E+22	9,662341E+21	9,661527E+21	7,556073E+22	1,932387E+22	9,488460E+22
-1385	3,778134E+22	3,778154E+22	9,661520E+21	9,662108E+21	7,556288E+22	1,932363E+22	9,488651E+22
-1384	3,778223E+22	3,778078E+22	9,661348E+21	9,661340E+21	7,556301E+22	1,932269E+22	9,488569E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1383	3,778091E+22	3,778183E+22	9,661890E+21	9,661281E+21	7,556274E+22	1,932317E+22	9,488591E+22
-1382	3,778266E+22	3,778153E+22	9,661055E+21	9,661990E+21	7,556419E+22	1,932305E+22	9,488723E+22
-1381	3,778122E+22	3,778124E+22	9,661824E+21	9,661539E+21	7,556246E+22	1,932336E+22	9,488583E+22
-1380	3,778021E+22	3,778177E+22	9,662364E+21	9,662206E+21	7,556198E+22	1,932457E+22	9,488655E+22
-1379	3,778154E+22	3,778017E+22	9,662000E+21	9,662720E+21	7,556170E+22	1,932472E+22	9,488642E+22
-1378	3,777896E+22	3,777974E+22	9,663339E+21	9,662488E+21	7,555870E+22	1,932583E+22	9,488453E+22
-1377	3,777915E+22	3,777957E+22	9,663371E+21	9,663611E+21	7,555873E+22	1,932698E+22	9,488571E+22
-1376	3,777943E+22	3,77796E+22	9,663376E+21	9,663732E+21	7,555739E+22	1,932711E+22	9,488450E+22
-1375	3,777697E+22	3,777833E+22	9,664320E+21	9,663764E+21	7,555531E+22	1,932808E+22	9,488339E+22
-1374	3,777844E+22	3,777793E+22	9,663635E+21	9,664585E+21	7,555638E+22	1,932822E+22	9,488460E+22
-1373	3,777803E+22	3,777726E+22	9,664041E+21	9,663877E+21	7,555529E+22	1,932792E+22	9,488320E+22
-1372	3,777713E+22	3,777846E+22	9,664387E+21	9,663740E+21	7,555559E+22	1,932813E+22	9,488372E+22
-1371	3,777933E+22	3,777799E+22	9,663350E+21	9,663984E+21	7,555732E+22	1,932733E+22	9,488466E+22
-1370	3,777759E+22	3,777836E+22	9,663829E+21	9,663074E+21	7,555596E+22	1,932690E+22	9,488286E+22
-1369	3,777798E+22	3,777955E+22	9,663407E+21	9,663408E+21	7,555753E+22	1,932682E+22	9,488435E+22
-1368	3,777988E+22	3,777880E+22	9,662538E+21	9,663070E+21	7,555868E+22	1,932561E+22	9,488429E+22
-1367	3,777856E+22	3,777954E+22	9,662991E+21	9,662274E+21	7,555810E+22	1,932526E+22	9,488337E+22
-1366	3,778055E+22	3,778006E+22	9,662178E+21	9,662736E+21	7,556060E+22	1,932491E+22	9,488552E+22
-1365	3,778100E+22	3,777961E+22	9,662133E+21	9,662155E+21	7,556060E+22	1,932429E+22	9,488489E+22
-1364	3,777936E+22	3,778094E+22	9,662729E+21	9,662069E+21	7,556030E+22	1,932480E+22	9,488510E+22
-1363	3,778105E+22	3,778046E+22	9,662027E+21	9,662923E+21	7,556151E+22	1,932495E+22	9,488646E+22
-1362	3,777936E+22	3,777954E+22	9,662874E+21	9,662546E+21	7,555891E+22	1,932542E+22	9,488433E+22
-1361	3,777847E+22	3,777998E+22	9,663485E+21	9,663160E+21	7,555845E+22	1,932664E+22	9,488509E+22
-1360	3,777991E+22	3,777829E+22	9,663154E+21	9,663762E+21	7,555821E+22	1,932692E+22	9,488512E+22
-1359	3,777742E+22	3,777767E+22	9,664265E+21	9,663598E+21	7,555509E+22	1,932786E+22	9,488296E+22
-1358	3,777745E+22	3,777782E+22	9,664207E+21	9,664668E+21	7,555527E+22	1,932887E+22	9,488415E+22
-1357	3,777767E+22	3,777636E+22	9,664269E+21	9,664825E+21	7,555403E+22	1,932909E+22	9,488312E+22
-1356	3,777547E+22	3,777696E+22	9,665205E+21	9,664563E+21	7,555243E+22	1,932977E+22	9,488220E+22
-1355	3,777727E+22	3,777664E+22	9,664570E+21	9,665314E+21	7,555392E+22	1,932988E+22	9,488380E+22
-1354	3,777658E+22	3,777574E+22	9,664949E+21	9,664624E+21	7,555232E+22	1,932957E+22	9,488189E+22
-1353	3,777552E+22	3,777722E+22	9,665256E+21	9,664508E+21	7,555274E+22	1,932976E+22	9,488251E+22
-1352	3,777761E+22	3,777676E+22	9,664187E+21	9,664858E+21	7,555438E+22	1,932904E+22	9,488342E+22
-1351	3,777619E+22	3,777676E+22	9,664470E+21	9,663955E+21	7,555295E+22	1,932842E+22	9,488137E+22
-1350	3,777687E+22	3,777802E+22	9,664027E+21	9,664106E+21	7,555490E+22	1,932813E+22	9,488303E+22
-1349	3,777885E+22	3,777738E+22	9,663268E+21	9,663790E+21	7,555623E+22	1,932706E+22	9,488329E+22
-1348	3,777763E+22	3,777844E+22	9,663740E+21	9,662876E+21	7,555607E+22	1,932662E+22	9,488269E+22
-1347	3,777941E+22	3,777911E+22	9,663006E+21	9,663513E+21	7,555853E+22	1,932652E+22	9,488505E+22
-1346	3,777919E+22	3,777833E+22	9,663020E+21	9,663124E+21	7,555752E+22	1,932614E+22	9,488366E+22
-1345	3,777752E+22	3,777956E+22	9,663730E+21	9,663044E+21	7,555708E+22	1,932677E+22	9,488386E+22
-1344	3,777929E+22	3,777877E+22	9,663132E+21	9,663895E+21	7,555806E+22	1,932703E+22	9,488509E+22
-1343	3,777793E+22	3,777746E+22	9,663842E+21	9,663533E+21	7,555539E+22	1,932738E+22	9,488277E+22
-1342	3,777706E+22	3,777802E+22	9,664405E+21	9,664078E+21	7,555508E+22	1,932848E+22	9,488356E+22
-1341	3,777811E+22	3,777662E+22	9,664107E+21	9,664859E+21	7,555473E+22	1,932897E+22	9,488369E+22
-1340	3,777566E+22	3,777631E+22	9,665150E+21	9,664596E+21	7,555197E+22	1,932975E+22	9,488172E+22
-1339	3,777591E+22	3,777645E+22	9,665153E+21	9,665661E+21	7,555236E+22	1,933081E+22	9,488317E+22
-1338	3,777599E+22	3,777471E+22	9,665260E+21	9,665759E+21	7,555070E+22	1,933102E+22	9,488172E+22
-1337	3,777405E+22	3,777544E+22	9,666233E+21	9,665347E+21	7,554949E+22	1,933158E+22	9,488107E+22
-1336	3,777582E+22	3,777518E+22	9,665614E+21	9,666123E+21	7,555100E+22	1,933174E+22	9,488274E+22
-1335	3,777509E+22	3,777416E+22	9,665727E+21	9,665537E+21	7,554925E+22	1,933126E+22	9,488051E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1334	3,777392E+22	3,777576E+22	9,665924E+21	9,665357E+21	7,554967E+22	1,933128E+22	9,488095E+22
-1333	3,777602E+22	3,777536E+22	9,664898E+21	9,665740E+21	7,555138E+22	1,933064E+22	9,488202E+22
-1332	3,777508E+22	3,777546E+22	9,665139E+21	9,664582E+21	7,555054E+22	1,932972E+22	9,488026E+22
-1331	3,777611E+22	3,777682E+22	9,664772E+21	9,664719E+21	7,555292E+22	1,932949E+22	9,488242E+22
-1330	3,777766E+22	3,777610E+22	9,664063E+21	9,664499E+21	7,555376E+22	1,932856E+22	9,488232E+22
-1329	3,777617E+22	3,777743E+22	9,664583E+21	9,663657E+21	7,555360E+22	1,932824E+22	9,488184E+22
-1328	3,777772E+22	3,777803E+22	9,663949E+21	9,664428E+21	7,555574E+22	1,932838E+22	9,488412E+22
-1327	3,777761E+22	3,777669E+22	9,663847E+21	9,664115E+21	7,555430E+22	1,932796E+22	9,488226E+22
-1326	3,777601E+22	3,777777E+22	9,664603E+21	9,663923E+21	7,555378E+22	1,932853E+22	9,488231E+22
-1325	3,777776E+22	3,777700E+22	9,664108E+21	9,664856E+21	7,555476E+22	1,932896E+22	9,488372E+22
-1324	3,777651E+22	3,777580E+22	9,664786E+21	9,664434E+21	7,555231E+22	1,932922E+22	9,488153E+22
-1323	3,777553E+22	3,777653E+22	9,665362E+21	9,665128E+21	7,555206E+22	1,933049E+22	9,488255E+22
-1322	3,777610E+22	3,777493E+22	9,665094E+21	9,666003E+21	7,555102E+22	1,933110E+22	9,488212E+22
-1321	3,777386E+22	3,777470E+22	9,666192E+21	9,665621E+21	7,554857E+22	1,933181E+22	9,488038E+22
-1320	3,777435E+22	3,777482E+22	9,666276E+21	9,666579E+21	7,554916E+22	1,933285E+22	9,488202E+22
-1319	3,777467E+22	3,777288E+22	9,666208E+21	9,666631E+21	7,554755E+22	1,933284E+22	9,488039E+22
-1318	3,777266E+22	3,777386E+22	9,667106E+21	9,666133E+21	7,554652E+22	1,933324E+22	9,487975E+22
-1317	3,777403E+22	3,777389E+22	9,666461E+21	9,667031E+21	7,554792E+22	1,933349E+22	9,488141E+22
-1316	3,777344E+22	3,777299E+22	9,666462E+21	9,666356E+21	7,554643E+22	1,933282E+22	9,487925E+22
-1315	3,777260E+22	3,777451E+22	9,666657E+21	9,666163E+21	7,554711E+22	1,933282E+22	9,487993E+22
-1314	3,777460E+22	3,777388E+22	9,665678E+21	9,666508E+21	7,554847E+22	1,933219E+22	9,488066E+22
-1313	3,777407E+22	3,777414E+22	9,665952E+21	9,665254E+21	7,554821E+22	1,933121E+22	9,487942E+22
-1312	3,777501E+22	3,777557E+22	9,665648E+21	9,665447E+21	7,555058E+22	1,933110E+22	9,488168E+22
-1311	3,777632E+22	3,777477E+22	9,664768E+21	9,665380E+21	7,555109E+22	1,933015E+22	9,488124E+22
-1310	3,777469E+22	3,777605E+22	9,665292E+21	9,664523E+21	7,555073E+22	1,932982E+22	9,488055E+22
-1309	3,777601E+22	3,777658E+22	9,664795E+21	9,665333E+21	7,555259E+22	1,933013E+22	9,488272E+22
-1308	3,777627E+22	3,777520E+22	9,664702E+21	9,664888E+21	7,555147E+22	1,932959E+22	9,488106E+22
-1307	3,777486E+22	3,777618E+22	9,665533E+21	9,664748E+21	7,555104E+22	1,933028E+22	9,488132E+22
-1306	3,777603E+22	3,777532E+22	9,665106E+21	9,665829E+21	7,555134E+22	1,933094E+22	9,488228E+22
-1305	3,777472E+22	3,777432E+22	9,665793E+21	9,665467E+21	7,554905E+22	1,933126E+22	9,488031E+22
-1304	3,777369E+22	3,777499E+22	9,666442E+21	9,666223E+21	7,554868E+22	1,933266E+22	9,488134E+22
-1303	3,777444E+22	3,777311E+22	9,666053E+21	9,667093E+21	7,554755E+22	1,933315E+22	9,488069E+22
-1302	3,777243E+22	3,777290E+22	9,667159E+21	9,666532E+21	7,554533E+22	1,933369E+22	9,487902E+22
-1301	3,777282E+22	3,777322E+22	9,667311E+21	9,667484E+21	7,554604E+22	1,933479E+22	9,488084E+22
-1300	3,777321E+22	3,777150E+22	9,667127E+21	9,667471E+21	7,554470E+22	1,933460E+22	9,487930E+22
-1299	3,777105E+22	3,777258E+22	9,667952E+21	9,667080E+21	7,554363E+22	1,933503E+22	9,487867E+22
-1298	3,777202E+22	3,777238E+22	9,667302E+21	9,668015E+21	7,554440E+22	1,933532E+22	9,487971E+22
-1297	3,777186E+22	3,777147E+22	9,667295E+21	9,667182E+21	7,554334E+22	1,933448E+22	9,487781E+22
-1296	3,777145E+22	3,777300E+22	9,667524E+21	9,666893E+21	7,554445E+22	1,933442E+22	9,487887E+22
-1295	3,777369E+22	3,777226E+22	9,666375E+21	9,667214E+21	7,554595E+22	1,933359E+22	9,487954E+22
-1294	3,777304E+22	3,777282E+22	9,666605E+21	9,665921E+21	7,554587E+22	1,933253E+22	9,487839E+22
-1293	3,777355E+22	3,777459E+22	9,666351E+21	9,666237E+21	7,554815E+22	1,933259E+22	9,488074E+22
-1292	3,777491E+22	3,777375E+22	9,665462E+21	9,666122E+21	7,554866E+22	1,933158E+22	9,488024E+22
-1291	3,777339E+22	3,777482E+22	9,666091E+21	9,665322E+21	7,554821E+22	1,933141E+22	9,487963E+22
-1290	3,777435E+22	3,777499E+22	9,665742E+21	9,666161E+21	7,554934E+22	1,933190E+22	9,488125E+22
-1289	3,777483E+22	3,777359E+22	9,665734E+21	9,665742E+21	7,554842E+22	1,933148E+22	9,487990E+22
-1288	3,777332E+22	3,777456E+22	9,666611E+21	9,665759E+21	7,554788E+22	1,933237E+22	9,488025E+22
-1287	3,777426E+22	3,777351E+22	9,666017E+21	9,666998E+21	7,554776E+22	1,933301E+22	9,488078E+22
-1286	3,777302E+22	3,777251E+22	9,666696E+21	9,666575E+21	7,554553E+22	1,933327E+22	9,487881E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1285	3,777198E+22	3,777330E+22	9,667438E+21	9,667267E+21	7,554528E+22	1,933471E+22	9,487998E+22
-1284	3,777309E+22	3,777153E+22	9,667037E+21	9,667950E+21	7,554462E+22	1,933499E+22	9,487961E+22
-1283	3,777118E+22	3,777142E+22	9,668158E+21	9,667401E+21	7,554260E+22	1,933556E+22	9,487816E+22
-1282	3,777083E+22	3,777174E+22	9,668337E+21	9,668424E+21	7,554257E+22	1,933676E+22	9,487933E+22
-1281	3,777128E+22	3,777017E+22	9,668099E+21	9,668437E+21	7,554145E+22	1,933654E+22	9,487799E+22
-1280	3,776929E+22	3,777102E+22	9,668895E+21	9,668042E+21	7,554031E+22	1,933694E+22	9,487725E+22
-1279	3,777051E+22	3,777057E+22	9,668060E+21	9,668911E+21	7,554108E+22	1,933697E+22	9,487805E+22
-1278	3,777088E+22	3,776976E+22	9,667992E+21	9,667891E+21	7,554064E+22	1,933588E+22	9,487653E+22
-1277	3,777047E+22	3,777162E+22	9,668256E+21	9,667577E+21	7,554208E+22	1,933583E+22	9,487792E+22
-1276	3,777270E+22	3,777126E+22	9,667034E+21	9,667860E+21	7,554397E+22	1,933489E+22	9,487886E+22
-1275	3,777184E+22	3,777194E+22	9,667259E+21	9,666686E+21	7,554378E+22	1,933394E+22	9,487773E+22
-1274	3,777172E+22	3,777341E+22	9,667153E+21	9,667047E+21	7,554513E+22	1,933420E+22	9,487933E+22
-1273	3,777336E+22	3,777244E+22	9,666364E+21	9,666880E+21	7,554580E+22	1,933324E+22	9,487904E+22
-1272	3,777206E+22	3,777322E+22	9,667093E+21	9,666130E+21	7,554528E+22	1,933322E+22	9,487850E+22
-1271	3,777297E+22	3,777315E+22	9,666634E+21	9,667074E+21	7,554612E+22	1,933371E+22	9,487983E+22
-1270	3,777339E+22	3,777187E+22	9,666584E+21	9,666721E+21	7,554526E+22	1,933330E+22	9,487856E+22
-1269	3,777159E+22	3,777308E+22	9,667488E+21	9,666852E+21	7,554467E+22	1,933434E+22	9,487901E+22
-1268	3,777272E+22	3,777204E+22	9,666885E+21	9,668006E+21	7,554477E+22	1,933489E+22	9,487966E+22
-1267	3,777166E+22	3,777104E+22	9,667632E+21	9,667552E+21	7,554270E+22	1,933518E+22	9,487788E+22
-1266	3,777026E+22	3,777165E+22	9,668537E+21	9,668192E+21	7,554191E+22	1,933673E+22	9,487864E+22
-1265	3,777148E+22	3,776996E+22	9,668197E+21	9,668841E+21	7,554144E+22	1,933704E+22	9,487848E+22
-1264	3,776939E+22	3,776986E+22	9,669299E+21	9,668435E+21	7,553925E+22	1,933773E+22	9,487698E+22
-1263	3,776882E+22	3,776990E+22	9,669238E+21	9,669528E+21	7,553872E+22	1,933877E+22	9,487749E+22
-1262	3,776952E+22	3,776825E+22	9,668919E+21	9,669428E+21	7,553777E+22	1,933835E+22	9,487612E+22
-1261	3,776786E+22	3,776932E+22	9,669684E+21	9,668903E+21	7,553717E+22	1,933859E+22	9,487576E+22
-1260	3,776964E+22	3,776907E+22	9,668776E+21	9,669551E+21	7,553870E+22	1,933833E+22	9,487703E+22
-1259	3,777011E+22	3,776864E+22	9,668678E+21	9,668516E+21	7,553876E+22	1,933719E+22	9,487595E+22
-1258	3,776897E+22	3,777065E+22	9,669020E+21	9,668266E+21	7,553962E+22	1,933729E+22	9,487691E+22
-1257	3,777110E+22	3,777044E+22	9,667850E+21	9,668579E+21	7,554154E+22	1,933643E+22	9,487797E+22
-1256	3,777027E+22	3,777082E+22	9,668149E+21	9,667517E+21	7,554109E+22	1,933567E+22	9,487675E+22
-1255	3,777012E+22	3,777178E+22	9,667960E+21	9,667896E+21	7,554190E+22	1,933586E+22	9,487776E+22
-1254	3,777212E+22	3,777063E+22	9,667198E+21	9,667703E+21	7,554276E+22	1,933490E+22	9,487766E+22
-1253	3,777080E+22	3,777154E+22	9,667949E+21	9,667039E+21	7,554234E+22	1,933499E+22	9,487733E+22
-1252	3,777170E+22	3,777167E+22	9,667422E+21	9,668020E+21	7,554337E+22	1,933544E+22	9,487881E+22
-1251	3,777200E+22	3,777053E+22	9,667360E+21	9,667756E+21	7,554254E+22	1,933512E+22	9,487765E+22
-1250	3,776970E+22	3,777154E+22	9,668442E+21	9,667856E+21	7,554124E+22	1,933630E+22	9,487754E+22
-1249	3,777113E+22	3,777057E+22	9,667988E+21	9,668890E+21	7,554171E+22	1,933688E+22	9,487858E+22
-1248	3,777022E+22	3,776938E+22	9,668825E+21	9,668471E+21	7,553960E+22	1,933730E+22	9,487689E+22
-1247	3,776847E+22	3,776980E+22	9,669611E+21	9,669173E+21	7,553827E+22	1,933878E+22	9,487705E+22
-1246	3,776966E+22	3,776819E+22	9,669183E+21	9,669878E+21	7,553785E+22	1,933906E+22	9,487691E+22
-1245	3,776743E+22	3,776816E+22	9,670218E+21	9,669518E+21	7,553560E+22	1,933974E+22	9,487533E+22
-1244	3,776725E+22	3,776824E+22	9,670043E+21	9,670463E+21	7,553549E+22	1,934051E+22	9,487599E+22
-1243	3,776836E+22	3,776674E+22	9,669668E+21	9,670248E+21	7,553510E+22	1,933992E+22	9,487501E+22
-1242	3,776653E+22	3,776785E+22	9,670526E+21	9,669630E+21	7,553438E+22	1,934016E+22	9,487453E+22
-1241	3,776848E+22	3,776797E+22	9,669670E+21	9,670222E+21	7,553644E+22	1,933989E+22	9,487634E+22
-1240	3,776873E+22	3,776766E+22	9,669551E+21	9,669334E+21	7,553639E+22	1,933888E+22	9,487528E+22
-1239	3,776724E+22	3,776934E+22	9,669755E+21	9,669147E+21	7,553658E+22	1,933890E+22	9,487548E+22
-1238	3,776958E+22	3,776889E+22	9,668595E+21	9,669393E+21	7,553848E+22	1,933799E+22	9,487646E+22
-1237	3,776893E+22	3,776924E+22	9,668927E+21	9,668316E+21	7,553817E+22	1,933724E+22	9,487541E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1236	3,776915E+22	3,777019E+22	9,668697E+21	9,668613E+21	7,553934E+22	1,933731E+22	9,487665E+22
-1235	3,777111E+22	3,776929E+22	9,667920E+21	9,668500E+21	7,554041E+22	1,933642E+22	9,487683E+22
-1234	3,776919E+22	3,777027E+22	9,668768E+21	9,667950E+21	7,553945E+22	1,933672E+22	9,487617E+22
-1233	3,777008E+22	3,777045E+22	9,668361E+21	9,668919E+21	7,554053E+22	1,933728E+22	9,487781E+22
-1232	3,777040E+22	3,776916E+22	9,668409E+21	9,668741E+21	7,553956E+22	1,933715E+22	9,487671E+22
-1231	3,776802E+22	3,776973E+22	9,669466E+21	9,668818E+21	7,553775E+22	1,933828E+22	9,487603E+22
-1230	3,776961E+22	3,776863E+22	9,669089E+21	9,669822E+21	7,553824E+22	1,933891E+22	9,487715E+22
-1229	3,776851E+22	3,776764E+22	9,669923E+21	9,669527E+21	7,553615E+22	1,933945E+22	9,487560E+22
-1228	3,776669E+22	3,776812E+22	9,670556E+21	9,670257E+21	7,553481E+22	1,934081E+22	9,487562E+22
-1227	3,776785E+22	3,776658E+22	9,670035E+21	9,670973E+21	7,553444E+22	1,934101E+22	9,487544E+22
-1226	3,776551E+22	3,776640E+22	9,671130E+21	9,670513E+21	7,553190E+22	1,934164E+22	9,487355E+22
-1225	3,776584E+22	3,776666E+22	9,671014E+21	9,671249E+21	7,553250E+22	1,934226E+22	9,487476E+22
-1224	3,776723E+22	3,776535E+22	9,670641E+21	9,671032E+21	7,553258E+22	1,934167E+22	9,487425E+22
-1223	3,776513E+22	3,776644E+22	9,671345E+21	9,670429E+21	7,553157E+22	1,934177E+22	9,487334E+22
-1222	3,776703E+22	3,776671E+22	9,670452E+21	9,671033E+21	7,553374E+22	1,934149E+22	9,487523E+22
-1221	3,776715E+22	3,776648E+22	9,670293E+21	9,670184E+21	7,553363E+22	1,934048E+22	9,487411E+22
-1220	3,776592E+22	3,776800E+22	9,670424E+21	9,669900E+21	7,553392E+22	1,934032E+22	9,487424E+22
-1219	3,776852E+22	3,776755E+22	9,669255E+21	9,670086E+21	7,553607E+22	1,933934E+22	9,487541E+22
-1218	3,776765E+22	3,776772E+22	9,669730E+21	9,669025E+21	7,553537E+22	1,933875E+22	9,487413E+22
-1217	3,776794E+22	3,776895E+22	9,669594E+21	9,669357E+21	7,553689E+22	1,933895E+22	9,487584E+22
-1216	3,776967E+22	3,776812E+22	9,668825E+21	9,669456E+21	7,553779E+22	1,933828E+22	9,487607E+22
-1215	3,776736E+22	3,776869E+22	9,669609E+21	9,668967E+21	7,553605E+22	1,933858E+22	9,487462E+22
-1214	3,776852E+22	3,776872E+22	9,669302E+21	9,669867E+21	7,553723E+22	1,933917E+22	9,487640E+22
-1213	3,776891E+22	3,776745E+22	9,669425E+21	9,669674E+21	7,553635E+22	1,933910E+22	9,487545E+22
-1212	3,776669E+22	3,776799E+22	9,670461E+21	9,669722E+21	7,553468E+22	1,934018E+22	9,487486E+22
-1211	3,776806E+22	3,776712E+22	9,670038E+21	9,670793E+21	7,553518E+22	1,934083E+22	9,487601E+22
-1210	3,776636E+22	3,776608E+22	9,670934E+21	9,670623E+21	7,553243E+22	1,934156E+22	9,487399E+22
-1209	3,776472E+22	3,776658E+22	9,671601E+21	9,671293E+21	7,553130E+22	1,934289E+22	9,487419E+22
-1208	3,776613E+22	3,776496E+22	9,671075E+21	9,672021E+21	7,553109E+22	1,934310E+22	9,487419E+22
-1207	3,776395E+22	3,776449E+22	9,672049E+21	9,671452E+21	7,552844E+22	1,934350E+22	9,487194E+22
-1206	3,776470E+22	3,776485E+22	9,671949E+21	9,672076E+21	7,552955E+22	1,934402E+22	9,487358E+22
-1205	3,776591E+22	3,776402E+22	9,671518E+21	9,671898E+21	7,552993E+22	1,934342E+22	9,487334E+22
-1204	3,776378E+22	3,776522E+22	9,672055E+21	9,671282E+21	7,552900E+22	1,934334E+22	9,487234E+22
-1203	3,776556E+22	3,776555E+22	9,671107E+21	9,671811E+21	7,553111E+22	1,934292E+22	9,487403E+22
-1202	3,776554E+22	3,776513E+22	9,671062E+21	9,670920E+21	7,553067E+22	1,934198E+22	9,487265E+22
-1201	3,776471E+22	3,776662E+22	9,671276E+21	9,670500E+21	7,553132E+22	1,934178E+22	9,487310E+22
-1200	3,776735E+22	3,776627E+22	9,670143E+21	9,670809E+21	7,553362E+22	1,934095E+22	9,487457E+22
-1199	3,776620E+22	3,776626E+22	9,670493E+21	9,669870E+21	7,553247E+22	1,934036E+22	9,487283E+22
-1198	3,776649E+22	3,776747E+22	9,670398E+21	9,670269E+21	7,553395E+22	1,934067E+22	9,487462E+22
-1197	3,776807E+22	3,776678E+22	9,669670E+21	9,670428E+21	7,553485E+22	1,934010E+22	9,487495E+22
-1196	3,776603E+22	3,776715E+22	9,670430E+21	9,669882E+21	7,553318E+22	1,934031E+22	9,487349E+22
-1195	3,776722E+22	3,776720E+22	9,670189E+21	9,670703E+21	7,553442E+22	1,934089E+22	9,487532E+22
-1194	3,776727E+22	3,776583E+22	9,670487E+21	9,670608E+21	7,553310E+22	1,934109E+22	9,487419E+22
-1193	3,776494E+22	3,776650E+22	9,671589E+21	9,670713E+21	7,553144E+22	1,934230E+22	9,487375E+22
-1192	3,776604E+22	3,776566E+22	9,671135E+21	9,671973E+21	7,553169E+22	1,934311E+22	9,487480E+22
-1191	3,776422E+22	3,776408E+22	9,671913E+21	9,671799E+21	7,552829E+22	1,934371E+22	9,487201E+22
-1190	3,776312E+22	3,776445E+22	9,672604E+21	9,672321E+21	7,552757E+22	1,934493E+22	9,487250E+22
-1189	3,776478E+22	3,776315E+22	9,672059E+21	9,672937E+21	7,552793E+22	1,934500E+22	9,487293E+22
-1188	3,776290E+22	3,776289E+22	9,672894E+21	9,672283E+21	7,552579E+22	1,934518E+22	9,487097E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1187	3,776348E+22	3,776371E+22	9,672708E+21	9,672855E+21	7,552719E+22	1,934556E+22	9,487275E+22
-1186	3,776414E+22	3,776293E+22	9,672337E+21	9,672715E+21	7,552706E+22	1,934505E+22	9,487211E+22
-1185	3,776213E+22	3,776416E+22	9,672915E+21	9,672014E+21	7,552629E+22	1,934493E+22	9,487122E+22
-1184	3,776404E+22	3,776436E+22	9,671965E+21	9,672565E+21	7,552840E+22	1,934453E+22	9,487293E+22
-1183	3,776404E+22	3,776343E+22	9,671850E+21	9,671671E+21	7,552747E+22	1,934352E+22	9,487099E+22
-1182	3,776362E+22	3,776489E+22	9,672095E+21	9,671277E+21	7,552851E+22	1,934337E+22	9,487188E+22
-1181	3,776604E+22	3,776491E+22	9,670926E+21	9,671700E+21	7,553095E+22	1,934263E+22	9,487358E+22
-1180	3,776493E+22	3,776491E+22	9,671136E+21	9,670817E+21	7,552984E+22	1,934195E+22	9,487179E+22
-1179	3,776518E+22	3,776616E+22	9,671059E+21	9,671115E+21	7,553134E+22	1,934217E+22	9,487351E+22
-1178	3,776654E+22	3,776534E+22	9,670546E+21	9,671248E+21	7,553188E+22	1,934179E+22	9,487368E+22
-1177	3,776471E+22	3,776575E+22	9,671471E+21	9,670639E+21	7,553046E+22	1,934211E+22	9,487257E+22
-1176	3,776567E+22	3,776586E+22	9,671304E+21	9,671615E+21	7,553152E+22	1,934292E+22	9,487444E+22
-1175	3,776526E+22	3,776412E+22	9,671530E+21	9,671699E+21	7,552938E+22	1,934323E+22	9,487261E+22
-1174	3,776305E+22	3,776458E+22	9,672639E+21	9,671866E+21	7,552762E+22	1,934451E+22	9,487213E+22
-1173	3,776411E+22	3,776383E+22	9,672167E+21	9,673119E+21	7,552794E+22	1,934529E+22	9,487322E+22
-1172	3,776281E+22	3,776212E+22	9,672806E+21	9,672837E+21	7,552493E+22	1,934564E+22	9,487058E+22
-1171	3,776194E+22	3,776271E+22	9,673472E+21	9,673162E+21	7,552464E+22	1,934663E+22	9,487128E+22
-1170	3,776334E+22	3,776170E+22	9,673057E+21	9,673799E+21	7,552504E+22	1,934686E+22	9,487189E+22
-1169	3,776138E+22	3,776177E+22	9,673880E+21	9,673121E+21	7,552314E+22	1,934700E+22	9,487014E+22
-1168	3,776160E+22	3,776268E+22	9,673648E+21	9,673778E+21	7,552428E+22	1,934743E+22	9,487171E+22
-1167	3,776216E+22	3,776136E+22	9,673169E+21	9,673620E+21	7,552352E+22	1,934679E+22	9,487031E+22
-1166	3,776072E+22	3,776228E+22	9,673757E+21	9,672807E+21	7,552300E+22	1,934656E+22	9,486956E+22
-1165	3,776276E+22	3,776275E+22	9,672781E+21	9,673307E+21	7,552552E+22	1,934609E+22	9,487160E+22
-1164	3,776310E+22	3,776190E+22	9,672492E+21	9,672443E+21	7,552500E+22	1,934494E+22	9,486993E+22
-1163	3,776255E+22	3,776370E+22	9,672663E+21	9,672030E+21	7,552626E+22	1,934469E+22	9,487095E+22
-1162	3,776456E+22	3,776384E+22	9,671643E+21	9,672526E+21	7,552840E+22	1,934417E+22	9,487257E+22
-1161	3,776360E+22	3,776386E+22	9,671957E+21	9,671569E+21	7,552746E+22	1,934353E+22	9,487098E+22
-1160	3,776380E+22	3,776505E+22	9,671992E+21	9,671893E+21	7,552885E+22	1,934388E+22	9,487273E+22
-1159	3,776498E+22	3,776367E+22	9,671533E+21	9,672092E+21	7,552865E+22	1,934362E+22	9,487227E+22
-1158	3,776329E+22	3,776390E+22	9,672562E+21	9,671612E+21	7,552719E+22	1,934417E+22	9,487136E+22
-1157	3,776376E+22	3,776426E+22	9,672369E+21	9,672735E+21	7,552802E+22	1,934510E+22	9,487313E+22
-1156	3,776343E+22	3,776228E+22	9,672432E+21	9,672911E+21	7,552571E+22	1,934534E+22	9,487105E+22
-1155	3,776144E+22	3,776269E+22	9,673489E+21	9,672921E+21	7,552413E+22	1,934641E+22	9,487054E+22
-1154	3,776249E+22	3,776195E+22	9,673167E+21	9,674072E+21	7,552444E+22	1,934724E+22	9,487168E+22
-1153	3,776151E+22	3,776057E+22	9,673857E+21	9,673654E+21	7,552209E+22	1,934751E+22	9,486960E+22
-1152	3,776049E+22	3,776151E+22	9,674509E+21	9,674045E+21	7,552200E+22	1,934855E+22	9,487055E+22
-1151	3,776136E+22	3,776027E+22	9,674025E+21	9,674768E+21	7,552163E+22	1,934879E+22	9,487042E+22
-1150	3,775958E+22	3,776021E+22	9,674832E+21	9,674109E+21	7,551979E+22	1,934894E+22	9,486873E+22
-1149	3,775975E+22	3,776118E+22	9,674545E+21	9,674681E+21	7,552094E+22	1,934923E+22	9,487016E+22
-1148	3,776085E+22	3,775960E+22	9,673884E+21	9,674456E+21	7,552045E+22	1,934834E+22	9,486879E+22
-1147	3,775978E+22	3,776061E+22	9,674393E+21	9,673481E+21	7,552039E+22	1,934787E+22	9,486827E+22
-1146	3,776160E+22	3,776138E+22	9,673526E+21	9,674040E+21	7,552298E+22	1,934757E+22	9,487055E+22
-1145	3,776193E+22	3,776094E+22	9,673225E+21	9,673192E+21	7,552286E+22	1,934642E+22	9,486928E+22
-1144	3,776115E+22	3,776283E+22	9,673413E+21	9,672853E+21	7,552399E+22	1,934627E+22	9,487025E+22
-1143	3,776294E+22	3,776244E+22	9,672465E+21	9,673335E+21	7,552538E+22	1,934580E+22	9,487118E+22
-1142	3,776238E+22	3,776219E+22	9,672902E+21	9,672357E+21	7,552456E+22	1,934526E+22	9,486982E+22
-1141	3,776234E+22	3,776354E+22	9,673017E+21	9,672703E+21	7,552588E+22	1,934572E+22	9,487160E+22
-1140	3,776357E+22	3,776204E+22	9,672434E+21	9,673074E+21	7,552561E+22	1,934551E+22	9,487111E+22
-1139	3,776167E+22	3,776227E+22	9,673401E+21	9,672620E+21	7,552393E+22	1,934602E+22	9,486996E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1138	3,776179E+22	3,776265E+22	9,673341E+21	9,673829E+21	7,552443E+22	1,934717E+22	9,487160E+22
-1137	3,776176E+22	3,776068E+22	9,673428E+21	9,673909E+21	7,552244E+22	1,934734E+22	9,486978E+22
-1136	3,775988E+22	3,776113E+22	9,674512E+21	9,673886E+21	7,552101E+22	1,934840E+22	9,486941E+22
-1135	3,776086E+22	3,776010E+22	9,674243E+21	9,675035E+21	7,552095E+22	1,934928E+22	9,487023E+22
-1134	3,776006E+22	3,775880E+22	9,674962E+21	9,674670E+21	7,551886E+22	1,934963E+22	9,486849E+22
-1133	3,775855E+22	3,776013E+22	9,675549E+21	9,675088E+21	7,551868E+22	1,935064E+22	9,486931E+22
-1132	3,775959E+22	3,775862E+22	9,674858E+21	9,675821E+21	7,551821E+22	1,935068E+22	9,486889E+22
-1131	3,775808E+22	3,775845E+22	9,675568E+21	9,674947E+21	7,551654E+22	1,935051E+22	9,486705E+22
-1130	3,775831E+22	3,775953E+22	9,675373E+21	9,675417E+21	7,551784E+22	1,935079E+22	9,486863E+22
-1129	3,775978E+22	3,775827E+22	9,674688E+21	9,675090E+21	7,551804E+22	1,934978E+22	9,486782E+22
-1128	3,775865E+22	3,775964E+22	9,675137E+21	9,674205E+21	7,551829E+22	1,934934E+22	9,486763E+22
-1127	3,776006E+22	3,776018E+22	9,674276E+21	9,674846E+21	7,552024E+22	1,934912E+22	9,486936E+22
-1126	3,776061E+22	3,775966E+22	9,674027E+21	9,674029E+21	7,552026E+22	1,934806E+22	9,486832E+22
-1125	3,775967E+22	3,776165E+22	9,674263E+21	9,673628E+21	7,552132E+22	1,934789E+22	9,486921E+22
-1124	3,776172E+22	3,776089E+22	9,673253E+21	9,674126E+21	7,552261E+22	1,934738E+22	9,486998E+22
-1123	3,776128E+22	3,776058E+22	9,673710E+21	9,673133E+21	7,552185E+22	1,934684E+22	9,486870E+22
-1122	3,776073E+22	3,776204E+22	9,673967E+21	9,673632E+21	7,552276E+22	1,934760E+22	9,487036E+22
-1121	3,776180E+22	3,776070E+22	9,673373E+21	9,674095E+21	7,552250E+22	1,934747E+22	9,486996E+22
-1120	3,775987E+22	3,776083E+22	9,674314E+21	9,673714E+21	7,552071E+22	1,934803E+22	9,486873E+22
-1119	3,775991E+22	3,776062E+22	9,674344E+21	9,674868E+21	7,552053E+22	1,934921E+22	9,486974E+22
-1118	3,776040E+22	3,775865E+22	9,674510E+21	9,674887E+21	7,551905E+22	1,934940E+22	9,486845E+22
-1117	3,775836E+22	3,775948E+22	9,675622E+21	9,674825E+21	7,551785E+22	1,935045E+22	9,486829E+22
-1116	3,775931E+22	3,775846E+22	9,675217E+21	9,676073E+21	7,551778E+22	1,935129E+22	9,486907E+22
-1115	3,775839E+22	3,775729E+22	9,675841E+21	9,675658E+21	7,551568E+22	1,935150E+22	9,486718E+22
-1114	3,775658E+22	3,775865E+22	9,676504E+21	9,676057E+21	7,551522E+22	1,935256E+22	9,486778E+22
-1113	3,775796E+22	3,775720E+22	9,675771E+21	9,676644E+21	7,551516E+22	1,935241E+22	9,486757E+22
-1112	3,775672E+22	3,775703E+22	9,676421E+21	9,675717E+21	7,551375E+22	1,935214E+22	9,486589E+22
-1111	3,775689E+22	3,775781E+22	9,676264E+21	9,676193E+21	7,551471E+22	1,935246E+22	9,486716E+22
-1110	3,775858E+22	3,775682E+22	9,675553E+21	9,675946E+21	7,551540E+22	1,935150E+22	9,486690E+22
-1109	3,775709E+22	3,775857E+22	9,675933E+21	9,675090E+21	7,551566E+22	1,935102E+22	9,486668E+22
-1108	3,775872E+22	3,775882E+22	9,674949E+21	9,675740E+21	7,551754E+22	1,935069E+22	9,486823E+22
-1107	3,775948E+22	3,775816E+22	9,674683E+21	9,674724E+21	7,551764E+22	1,934941E+22	9,486704E+22
-1106	3,775838E+22	3,776023E+22	9,675099E+21	9,674304E+21	7,551862E+22	1,934940E+22	9,486802E+22
-1105	3,776050E+22	3,775966E+22	9,674121E+21	9,674810E+21	7,552016E+22	1,934893E+22	9,486909E+22
-1104	3,775975E+22	3,775944E+22	9,674571E+21	9,674021E+21	7,551919E+22	1,934859E+22	9,486778E+22
-1103	3,775874E+22	3,776045E+22	9,674907E+21	9,674665E+21	7,551919E+22	1,934957E+22	9,486877E+22
-1102	3,776011E+22	3,775893E+22	9,674369E+21	9,675176E+21	7,551904E+22	1,934954E+22	9,486858E+22
-1101	3,775818E+22	3,775914E+22	9,675329E+21	9,674719E+21	7,551732E+22	1,935005E+22	9,486737E+22
-1100	3,775860E+22	3,775864E+22	9,675294E+21	9,675859E+21	7,551724E+22	1,935115E+22	9,486840E+22
-1099	3,775918E+22	3,775683E+22	9,675465E+21	9,675805E+21	7,551601E+22	1,935127E+22	9,486728E+22
-1098	3,775663E+22	3,775803E+22	9,676686E+21	9,675849E+21	7,551466E+22	1,935254E+22	9,486719E+22
-1097	3,775740E+22	3,775721E+22	9,676240E+21	9,677087E+21	7,551461E+22	1,935333E+22	9,486794E+22
-1096	3,775649E+22	3,775593E+22	9,676808E+21	9,676681E+21	7,551242E+22	1,935349E+22	9,486591E+22
-1095	3,775465E+22	3,775671E+22	9,677508E+21	9,676980E+21	7,551135E+22	1,935449E+22	9,486584E+22
-1094	3,775656E+22	3,775532E+22	9,676761E+21	9,677495E+21	7,551188E+22	1,935426E+22	9,486613E+22
-1093	3,775534E+22	3,775555E+22	9,677323E+21	9,676537E+21	7,551089E+22	1,935386E+22	9,486475E+22
-1092	3,775562E+22	3,775632E+22	9,676982E+21	9,677086E+21	7,551194E+22	1,935407E+22	9,486601E+22
-1091	3,775734E+22	3,775557E+22	9,676180E+21	9,676753E+21	7,551291E+22	1,935293E+22	9,486584E+22
-1090	3,775568E+22	3,775742E+22	9,676650E+21	9,675854E+21	7,551310E+22	1,935250E+22	9,486560E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1089	3,775746E+22	3,775774E+22	9,675700E+21	9,676357E+21	7,551520E+22	1,935206E+22	9,486726E+22
-1088	3,775835E+22	3,775705E+22	9,675457E+21	9,675383E+21	7,551539E+22	1,935084E+22	9,486623E+22
-1087	3,775689E+22	3,775863E+22	9,676021E+21	9,675082E+21	7,551552E+22	1,935110E+22	9,486662E+22
-1086	3,775893E+22	3,775820E+22	9,675077E+21	9,675765E+21	7,551713E+22	1,935084E+22	9,486797E+22
-1085	3,775788E+22	3,775803E+22	9,675501E+21	9,675078E+21	7,551592E+22	1,935058E+22	9,486650E+22
-1084	3,775715E+22	3,775852E+22	9,675760E+21	9,675754E+21	7,551567E+22	1,935151E+22	9,486718E+22
-1083	3,775882E+22	3,775698E+22	9,675229E+21	9,676091E+21	7,551580E+22	1,935132E+22	9,486712E+22
-1082	3,775680E+22	3,775743E+22	9,676333E+21	9,675612E+21	7,551423E+22	1,935195E+22	9,486618E+22
-1081	3,775720E+22	3,775730E+22	9,676338E+21	9,676732E+21	7,551450E+22	1,935307E+22	9,486757E+22
-1080	3,775745E+22	3,775570E+22	9,676487E+21	9,676824E+21	7,551315E+22	1,935331E+22	9,486646E+22
-1079	3,775440E+22	3,775642E+22	9,677803E+21	9,676955E+21	7,551082E+22	1,935476E+22	9,486558E+22
-1078	3,775541E+22	3,775549E+22	9,677357E+21	9,678164E+21	7,551090E+22	1,935552E+22	9,486642E+22
-1077	3,775458E+22	3,775420E+22	9,677864E+21	9,677669E+21	7,550879E+22	1,935553E+22	9,486432E+22
-1076	3,775330E+22	3,775462E+22	9,678397E+21	9,677935E+21	7,550792E+22	1,935633E+22	9,486425E+22
-1075	3,775545E+22	3,775348E+22	9,677543E+21	9,678330E+21	7,550893E+22	1,935587E+22	9,486480E+22
-1074	3,775393E+22	3,775426E+22	9,678088E+21	9,677422E+21	7,550819E+22	1,935551E+22	9,486370E+22
-1073	3,775428E+22	3,775532E+22	9,677674E+21	9,677874E+21	7,550960E+22	1,935555E+22	9,486515E+22
-1072	3,775602E+22	3,775458E+22	9,676862E+21	9,677468E+21	7,551060E+22	1,935433E+22	9,486493E+22
-1071	3,775424E+22	3,775596E+22	9,677482E+21	9,676511E+21	7,551020E+22	1,935399E+22	9,486419E+22
-1070	3,775624E+22	3,775634E+22	9,676611E+21	9,676999E+21	7,551257E+22	1,935361E+22	9,486618E+22
-1069	3,775685E+22	3,775583E+22	9,676369E+21	9,676160E+21	7,551268E+22	1,935253E+22	9,486521E+22
-1068	3,775538E+22	3,775704E+22	9,676806E+21	9,676062E+21	7,551242E+22	1,935287E+22	9,486529E+22
-1067	3,775742E+22	3,775658E+22	9,675832E+21	9,676729E+21	7,551400E+22	1,935256E+22	9,486656E+22
-1066	3,775632E+22	3,775650E+22	9,676343E+21	9,676055E+21	7,551282E+22	1,935240E+22	9,486522E+22
-1065	3,775586E+22	3,775703E+22	9,676639E+21	9,676596E+21	7,551289E+22	1,935324E+22	9,486612E+22
-1064	3,775760E+22	3,775560E+22	9,676183E+21	9,676962E+21	7,551320E+22	1,935314E+22	9,486634E+22
-1063	3,775512E+22	3,775575E+22	9,677466E+21	9,676614E+21	7,551087E+22	1,935408E+22	9,486495E+22
-1062	3,775525E+22	3,775584E+22	9,677511E+21	9,677849E+21	7,551109E+22	1,935536E+22	9,486645E+22
-1061	3,775524E+22	3,775422E+22	9,677625E+21	9,678013E+21	7,550946E+22	1,935564E+22	9,486510E+22
-1060	3,775251E+22	3,775423E+22	9,678800E+21	9,678109E+21	7,550673E+22	1,935691E+22	9,486364E+22
-1059	3,775389E+22	3,775332E+22	9,678277E+21	9,679091E+21	7,550721E+22	1,935737E+22	9,486458E+22
-1058	3,775321E+22	3,775234E+22	9,678771E+21	9,678541E+21	7,550555E+22	1,935731E+22	9,486286E+22
-1057	3,775205E+22	3,775320E+22	9,679214E+21	9,678726E+21	7,550524E+22	1,935794E+22	9,486318E+22
-1056	3,775409E+22	3,775252E+22	9,678284E+21	9,679159E+21	7,550661E+22	1,935744E+22	9,486406E+22
-1055	3,775229E+22	3,775298E+22	9,678920E+21	9,678252E+21	7,550527E+22	1,935717E+22	9,486244E+22
-1054	3,775281E+22	3,775415E+22	9,678549E+21	9,678600E+21	7,550696E+22	1,935715E+22	9,486411E+22
-1053	3,775457E+22	3,775341E+22	9,677741E+21	9,678148E+21	7,550798E+22	1,935589E+22	9,486387E+22
-1052	3,775306E+22	3,775422E+22	9,678285E+21	9,677280E+21	7,550728E+22	1,935557E+22	9,486284E+22
-1051	3,775497E+22	3,775476E+22	9,677380E+21	9,677787E+21	7,550973E+22	1,935517E+22	9,486490E+22
-1050	3,775524E+22	3,775451E+22	9,677148E+21	9,677133E+21	7,550975E+22	1,935428E+22	9,486403E+22
-1049	3,775391E+22	3,775570E+22	9,677546E+21	9,677009E+21	7,550961E+22	1,935455E+22	9,486416E+22
-1048	3,775609E+22	3,775520E+22	9,676608E+21	9,677616E+21	7,551129E+22	1,935422E+22	9,486551E+22
-1047	3,775490E+22	3,775473E+22	9,677304E+21	9,676916E+21	7,550963E+22	1,935422E+22	9,486385E+22
-1046	3,775454E+22	3,775551E+22	9,677710E+21	9,677442E+21	7,551005E+22	1,935515E+22	9,486520E+22
-1045	3,775584E+22	3,775432E+22	9,677306E+21	9,677943E+21	7,551016E+22	1,935525E+22	9,486541E+22
-1044	3,775327E+22	3,775401E+22	9,678508E+21	9,677795E+21	7,550728E+22	1,935630E+22	9,486359E+22
-1043	3,775334E+22	3,775398E+22	9,678514E+21	9,678934E+21	7,550731E+22	1,935745E+22	9,486476E+22
-1042	3,775330E+22	3,775239E+22	9,678642E+21	9,679091E+21	7,550569E+22	1,935773E+22	9,486342E+22
-1041	3,775106E+22	3,775237E+22	9,679721E+21	9,679017E+21	7,550343E+22	1,935874E+22	9,486217E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-1040	3,775262E+22	3,775166E+22	9,679168E+21	9,679938E+21	7,550428E+22	1,935911E+22	9,486339E+22
-1039	3,775166E+22	3,775070E+22	9,679734E+21	9,679463E+21	7,550236E+22	1,935920E+22	9,486156E+22
-1038	3,775044E+22	3,775201E+22	9,680140E+21	9,679648E+21	7,550244E+22	1,935979E+22	9,486223E+22
-1037	3,775232E+22	3,775145E+22	9,679199E+21	9,680059E+21	7,550377E+22	1,935926E+22	9,486303E+22
-1036	3,775088E+22	3,775131E+22	9,679717E+21	9,679106E+21	7,550219E+22	1,935882E+22	9,486101E+22
-1035	3,775161E+22	3,775249E+22	9,679315E+21	9,679243E+21	7,550410E+22	1,935856E+22	9,486265E+22
-1034	3,775329E+22	3,775204E+22	9,678522E+21	9,678861E+21	7,550533E+22	1,935738E+22	9,486271E+22
-1033	3,775184E+22	3,775297E+22	9,678978E+21	9,678041E+21	7,550481E+22	1,935702E+22	9,486183E+22
-1032	3,775357E+22	3,775371E+22	9,678054E+21	9,678638E+21	7,550728E+22	1,935669E+22	9,486397E+22
-1031	3,775362E+22	3,775305E+22	9,677967E+21	9,678063E+21	7,550667E+22	1,935603E+22	9,486270E+22
-1030	3,775249E+22	3,775432E+22	9,678436E+21	9,677855E+21	7,550682E+22	1,935629E+22	9,486311E+22
-1029	3,775473E+22	3,775384E+22	9,677598E+21	9,678452E+21	7,550857E+22	1,935605E+22	9,486462E+22
-1028	3,775369E+22	3,775280E+22	9,678274E+21	9,677861E+21	7,550650E+22	1,935613E+22	9,486263E+22
-1027	3,775301E+22	3,775383E+22	9,678704E+21	9,678401E+21	7,550684E+22	1,935711E+22	9,486394E+22
-1026	3,775388E+22	3,775285E+22	9,678320E+21	9,679081E+21	7,550673E+22	1,935740E+22	9,486413E+22
-1025	3,775140E+22	3,775229E+22	9,679479E+21	9,678891E+21	7,550369E+22	1,935837E+22	9,486206E+22
-1024	3,775161E+22	3,775224E+22	9,679477E+21	9,679914E+21	7,550385E+22	1,935939E+22	9,486324E+22
-1023	3,775160E+22	3,775031E+22	9,679723E+21	9,680041E+21	7,550190E+22	1,935976E+22	9,486167E+22
-1022	3,774954E+22	3,775069E+22	9,680783E+21	9,679912E+21	7,550023E+22	1,936070E+22	9,486092E+22
-1021	3,775092E+22	3,775037E+22	9,680204E+21	9,680904E+21	7,550128E+22	1,936111E+22	9,486239E+22
-1020	3,775002E+22	3,774909E+22	9,680613E+21	9,680519E+21	7,549911E+22	1,936113E+22	9,486024E+22
-1019	3,774889E+22	3,775050E+22	9,680962E+21	9,680525E+21	7,549939E+22	1,936149E+22	9,486088E+22
-1018	3,775079E+22	3,775011E+22	9,680021E+21	9,680870E+21	7,550090E+22	1,936089E+22	9,486179E+22
-1017	3,774976E+22	3,774987E+22	9,680457E+21	9,679796E+21	7,549963E+22	1,936025E+22	9,485989E+22
-1016	3,775049E+22	3,775121E+22	9,680037E+21	9,679904E+21	7,550170E+22	1,935994E+22	9,486164E+22
-1015	3,775176E+22	3,775064E+22	9,679344E+21	9,679702E+21	7,550241E+22	1,935905E+22	9,486145E+22
-1014	3,775030E+22	3,775182E+22	9,679770E+21	9,678930E+21	7,550212E+22	1,935870E+22	9,486082E+22
-1013	3,775199E+22	3,775246E+22	9,678909E+21	9,679526E+21	7,550444E+22	1,935843E+22	9,486288E+22
-1012	3,775241E+22	3,775122E+22	9,678769E+21	9,678948E+21	7,550363E+22	1,935772E+22	9,486135E+22
-1011	3,775145E+22	3,775256E+22	9,679273E+21	9,678576E+21	7,550401E+22	1,935785E+22	9,486186E+22
-1010	3,775335E+22	3,775243E+22	9,678536E+21	9,679283E+21	7,550578E+22	1,935782E+22	9,486360E+22
-1009	3,775222E+22	3,775149E+22	9,679170E+21	9,678812E+21	7,550371E+22	1,935798E+22	9,486169E+22
-1008	3,775120E+22	3,775253E+22	9,679631E+21	9,679400E+21	7,550373E+22	1,935903E+22	9,486276E+22
-1007	3,775177E+22	3,775111E+22	9,679414E+21	9,680178E+21	7,550289E+22	1,935959E+22	9,486248E+22
-1006	3,774956E+22	3,775054E+22	9,680580E+21	9,679899E+21	7,550010E+22	1,936048E+22	9,486058E+22
-1005	3,774989E+22	3,775044E+22	9,680620E+21	9,680904E+21	7,550033E+22	1,936152E+22	9,486186E+22
-1004	3,775012E+22	3,774815E+22	9,680750E+21	9,681129E+21	7,549827E+22	1,936188E+22	9,486015E+22
-1003	3,774799E+22	3,774893E+22	9,681712E+21	9,680949E+21	7,549692E+22	1,936266E+22	9,485958E+22
-1002	3,774913E+22	3,774901E+22	9,681113E+21	9,681984E+21	7,549814E+22	1,936310E+22	9,486124E+22
-1001	3,774857E+22	3,774763E+22	9,681404E+21	9,681444E+21	7,549620E+22	1,936285E+22	9,485905E+22
-1000	3,774760E+22	3,774914E+22	9,681729E+21	9,681220E+21	7,549674E+22	1,936295E+22	9,485969E+22
-999	3,774940E+22	3,774855E+22	9,680912E+21	9,681548E+21	7,549796E+22	1,936246E+22	9,486042E+22
-998	3,774838E+22	3,774864E+22	9,681324E+21	9,680477E+21	7,549703E+22	1,936180E+22	9,485883E+22
-997	3,774891E+22	3,775016E+22	9,680904E+21	9,680722E+21	7,549907E+22	1,936163E+22	9,486069E+22
-996	3,775026E+22	3,774905E+22	9,680093E+21	9,680649E+21	7,549931E+22	1,936074E+22	9,486005E+22
-995	3,774898E+22	3,775025E+22	9,680487E+21	9,679754E+21	7,549922E+22	1,936024E+22	9,485946E+22
-994	3,775073E+22	3,775106E+22	9,679690E+21	9,680319E+21	7,550179E+22	1,936001E+22	9,486180E+22
-993	3,775146E+22	3,774971E+22	9,679532E+21	9,679691E+21	7,550117E+22	1,935922E+22	9,486039E+22
-992	3,775028E+22	3,775129E+22	9,680112E+21	9,679333E+21	7,550157E+22	1,935945E+22	9,486102E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-991	3,775151E+22	3,775106E+22	9,679564E+21	9,680274E+21	7,550256E+22	1,935984E+22	9,486240E+22
-990	3,775017E+22	3,775018E+22	9,680234E+21	9,679898E+21	7,550035E+22	1,936013E+22	9,486048E+22
-989	3,774912E+22	3,775093E+22	9,680768E+21	9,680511E+21	7,550005E+22	1,936128E+22	9,486133E+22
-988	3,775003E+22	3,774879E+22	9,680472E+21	9,681296E+21	7,549882E+22	1,936177E+22	9,486059E+22
-987	3,774814E+22	3,774833E+22	9,681580E+21	9,680875E+21	7,549647E+22	1,936246E+22	9,485893E+22
-986	3,774833E+22	3,774870E+22	9,681624E+21	9,681932E+21	7,549703E+22	1,936356E+22	9,486058E+22
-985	3,774866E+22	3,774666E+22	9,681621E+21	9,682177E+21	7,549532E+22	1,936380E+22	9,485911E+22
-984	3,774644E+22	3,774767E+22	9,682546E+21	9,681885E+21	7,549412E+22	1,936443E+22	9,485855E+22
-983	3,774734E+22	3,774758E+22	9,682102E+21	9,682889E+21	7,549492E+22	1,936499E+22	9,485991E+22
-982	3,774703E+22	3,774637E+22	9,682367E+21	9,682199E+21	7,549340E+22	1,936457E+22	9,485797E+22
-981	3,774613E+22	3,774774E+22	9,682717E+21	9,681939E+21	7,549387E+22	1,936466E+22	9,485853E+22
-980	3,774796E+22	3,774679E+22	9,681775E+21	9,682404E+21	7,549475E+22	1,936418E+22	9,485893E+22
-979	3,774694E+22	3,774708E+22	9,682055E+21	9,681351E+21	7,549402E+22	1,936341E+22	9,485743E+22
-978	3,774729E+22	3,774880E+22	9,681636E+21	9,681655E+21	7,549609E+22	1,936329E+22	9,485938E+22
-977	3,774911E+22	3,774760E+22	9,680729E+21	9,681485E+21	7,549670E+22	1,936221E+22	9,485892E+22
-976	3,774804E+22	3,774889E+22	9,681138E+21	9,680391E+21	7,549694E+22	1,936153E+22	9,485847E+22
-975	3,774950E+22	3,774967E+22	9,680577E+21	9,681006E+21	7,549917E+22	1,936158E+22	9,486076E+22
-974	3,775003E+22	3,774868E+22	9,680468E+21	9,680458E+21	7,549871E+22	1,936093E+22	9,485963E+22
-973	3,774843E+22	3,775021E+22	9,681152E+21	9,680301E+21	7,549864E+22	1,936145E+22	9,486009E+22
-972	3,774952E+22	3,774928E+22	9,680574E+21	9,681413E+21	7,549880E+22	1,936199E+22	9,486079E+22
-971	3,774838E+22	3,774821E+22	9,681228E+21	9,680978E+21	7,549659E+22	1,936221E+22	9,485880E+22
-970	3,774744E+22	3,774897E+22	9,681804E+21	9,681567E+21	7,549641E+22	1,936337E+22	9,485978E+22
-969	3,774879E+22	3,774675E+22	9,681413E+21	9,682309E+21	7,549554E+22	1,936372E+22	9,485926E+22
-968	3,774683E+22	3,774668E+22	9,682480E+21	9,681831E+21	7,549351E+22	1,936431E+22	9,485782E+22
-967	3,774651E+22	3,774722E+22	9,682665E+21	9,683011E+21	7,549373E+22	1,936568E+22	9,485940E+22
-966	3,774674E+22	3,774545E+22	9,682663E+21	9,683183E+21	7,549220E+22	1,936585E+22	9,485804E+22
-965	3,774464E+22	3,774633E+22	9,683645E+21	9,682817E+21	7,549097E+22	1,936646E+22	9,485743E+22
-964	3,774573E+22	3,774561E+22	9,683111E+21	9,683748E+21	7,549135E+22	1,936686E+22	9,485820E+22
-963	3,774559E+22	3,774454E+22	9,683279E+21	9,682970E+21	7,549014E+22	1,936625E+22	9,485638E+22
-962	3,774454E+22	3,774628E+22	9,683558E+21	9,682802E+21	7,549083E+22	1,936636E+22	9,485719E+22
-961	3,774653E+22	3,774537E+22	9,682427E+21	9,683313E+21	7,549191E+22	1,936574E+22	9,485765E+22
-960	3,774566E+22	3,774586E+22	9,682637E+21	9,682146E+21	7,549152E+22	1,936478E+22	9,485630E+22
-959	3,774594E+22	3,774747E+22	9,682398E+21	9,682429E+21	7,549340E+22	1,936483E+22	9,485823E+22
-958	3,774794E+22	3,774652E+22	9,681541E+21	9,682129E+21	7,549445E+22	1,936367E+22	9,485812E+22
-957	3,774689E+22	3,774775E+22	9,682072E+21	9,681096E+21	7,549464E+22	1,936317E+22	9,485781E+22
-956	3,774801E+22	3,774811E+22	9,681509E+21	9,681894E+21	7,549612E+22	1,936340E+22	9,485952E+22
-955	3,774832E+22	3,774719E+22	9,681375E+21	9,681474E+21	7,549552E+22	1,936285E+22	9,485836E+22
-954	3,774650E+22	3,774861E+22	9,682116E+21	9,681411E+21	7,549511E+22	1,936353E+22	9,485864E+22
-953	3,774797E+22	3,774737E+22	9,681461E+21	9,682466E+21	7,549534E+22	1,936393E+22	9,485926E+22
-952	3,774712E+22	3,774632E+22	9,682096E+21	9,681860E+21	7,549344E+22	1,936396E+22	9,485740E+22
-951	3,774594E+22	3,774713E+22	9,682863E+21	9,682510E+21	7,549306E+22	1,936537E+22	9,485844E+22
-950	3,774714E+22	3,774547E+22	9,682478E+21	9,683275E+21	7,549262E+22	1,936575E+22	9,485837E+22
-949	3,774498E+22	3,774543E+22	9,683592E+21	9,682899E+21	7,549042E+22	1,936649E+22	9,485691E+22
-948	3,774451E+22	3,774548E+22	9,683749E+21	9,684114E+21	7,548998E+22	1,936786E+22	9,485785E+22
-947	3,774499E+22	3,774370E+22	9,683682E+21	9,684163E+21	7,548869E+22	1,936785E+22	9,485654E+22
-946	3,774293E+22	3,774456E+22	9,684654E+21	9,683731E+21	7,548749E+22	1,936838E+22	9,485588E+22
-945	3,774439E+22	3,774379E+22	9,683950E+21	9,684619E+21	7,548818E+22	1,936857E+22	9,485675E+22
-944	3,774426E+22	3,774303E+22	9,683983E+21	9,683797E+21	7,548729E+22	1,936778E+22	9,485508E+22
-943	3,774287E+22	3,774488E+22	9,684342E+21	9,683742E+21	7,548775E+22	1,936808E+22	9,485584E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-942	3,774501E+22	3,774428E+22	9,683187E+21	9,684134E+21	7,548930E+22	1,936732E+22	9,485662E+22
-941	3,774445E+22	3,774465E+22	9,683449E+21	9,682885E+21	7,548910E+22	1,936633E+22	9,485544E+22
-940	3,774482E+22	3,774583E+22	9,683215E+21	9,683119E+21	7,549065E+22	1,936633E+22	9,485699E+22
-939	3,774683E+22	3,774510E+22	9,682368E+21	9,682808E+21	7,549192E+22	1,936518E+22	9,485710E+22
-938	3,774538E+22	3,774654E+22	9,682958E+21	9,681958E+21	7,549191E+22	1,936492E+22	9,485683E+22
-937	3,774642E+22	3,774671E+22	9,682309E+21	9,682861E+21	7,549313E+22	1,936517E+22	9,485830E+22
-936	3,774674E+22	3,774573E+22	9,682170E+21	9,682412E+21	7,549246E+22	1,936458E+22	9,485705E+22
-935	3,774483E+22	3,774687E+22	9,683100E+21	9,682399E+21	7,549170E+22	1,936550E+22	9,485720E+22
-934	3,774643E+22	3,774578E+22	9,682493E+21	9,683345E+21	7,549222E+22	1,936584E+22	9,485806E+22
-933	3,774570E+22	3,774473E+22	9,683205E+21	9,682835E+21	7,549043E+22	1,936604E+22	9,485647E+22
-932	3,774419E+22	3,774525E+22	9,683938E+21	9,683624E+21	7,548944E+22	1,936756E+22	9,485700E+22
-931	3,774518E+22	3,774382E+22	9,683535E+21	9,684438E+21	7,548901E+22	1,936797E+22	9,485698E+22
-930	3,774297E+22	3,774379E+22	9,684677E+21	9,684063E+21	7,548676E+22	1,936874E+22	9,485550E+22
-929	3,774288E+22	3,774355E+22	9,684707E+21	9,685116E+21	7,548643E+22	1,936982E+22	9,485625E+22
-928	3,774363E+22	3,774191E+22	9,684551E+21	9,684965E+21	7,548554E+22	1,936952E+22	9,485505E+22
-927	3,774138E+22	3,774285E+22	9,685599E+21	9,684588E+21	7,548423E+22	1,937019E+22	9,485441E+22
-926	3,774270E+22	3,774261E+22	9,684820E+21	9,685444E+21	7,548531E+22	1,937026E+22	9,485557E+22
-925	3,774268E+22	3,774190E+22	9,684830E+21	9,684702E+21	7,548458E+22	1,936953E+22	9,485411E+22
-924	3,774134E+22	3,774329E+22	9,685139E+21	9,684624E+21	7,548464E+22	1,936976E+22	9,485440E+22
-923	3,774381E+22	3,774285E+22	9,683977E+21	9,684879E+21	7,548666E+22	1,936886E+22	9,485551E+22
-922	3,774335E+22	3,774328E+22	9,684273E+21	9,683590E+21	7,548662E+22	1,936786E+22	9,485449E+22
-921	3,774382E+22	3,774440E+22	9,683955E+21	9,683838E+21	7,548822E+22	1,936779E+22	9,485601E+22
-920	3,774556E+22	3,774393E+22	9,683063E+21	9,683578E+21	7,548949E+22	1,936664E+22	9,485613E+22
-919	3,774357E+22	3,774522E+22	9,683828E+21	9,682941E+21	7,548879E+22	1,936677E+22	9,485556E+22
-918	3,774461E+22	3,774548E+22	9,683233E+21	9,683777E+21	7,549008E+22	1,936701E+22	9,485709E+22
-917	3,774525E+22	3,774413E+22	9,683170E+21	9,683340E+21	7,548938E+22	1,936651E+22	9,485589E+22
-916	3,774333E+22	3,774477E+22	9,684109E+21	9,683342E+21	7,548810E+22	1,936745E+22	9,485555E+22
-915	3,774499E+22	3,774397E+22	9,683505E+21	9,684322E+21	7,548896E+22	1,936783E+22	9,485679E+22
-914	3,774392E+22	3,774315E+22	9,684237E+21	9,683947E+21	7,548708E+22	1,936818E+22	9,485526E+22
-913	3,774244E+22	3,774360E+22	9,684873E+21	9,684763E+21	7,548604E+22	1,936964E+22	9,485568E+22
-912	3,774351E+22	3,774222E+22	9,684456E+21	9,685439E+21	7,548573E+22	1,936990E+22	9,485563E+22
-911	3,774119E+22	3,774203E+22	9,685752E+21	9,685063E+21	7,548323E+22	1,937081E+22	9,485404E+22
-910	3,774122E+22	3,774202E+22	9,685766E+21	9,685935E+21	7,548324E+22	1,937170E+22	9,485494E+22
-909	3,774211E+22	3,774035E+22	9,685596E+21	9,685877E+21	7,548246E+22	1,937147E+22	9,485393E+22
-908	3,773960E+22	3,774105E+22	9,686525E+21	9,685605E+21	7,548065E+22	1,937213E+22	9,485278E+22
-907	3,774099E+22	3,774105E+22	9,685674E+21	9,686435E+21	7,548205E+22	1,937211E+22	9,485416E+22
-906	3,774117E+22	3,774042E+22	9,685670E+21	9,685623E+21	7,548159E+22	1,937129E+22	9,485288E+22
-905	3,774034E+22	3,774168E+22	9,685841E+21	9,685371E+21	7,548201E+22	1,937121E+22	9,485323E+22
-904	3,774292E+22	3,774152E+22	9,684653E+21	9,685445E+21	7,548444E+22	1,937010E+22	9,485454E+22
-903	3,774210E+22	3,774212E+22	9,685085E+21	9,684313E+21	7,548421E+22	1,936940E+22	9,485361E+22
-902	3,774217E+22	3,774355E+22	9,684779E+21	9,684562E+21	7,548572E+22	1,936934E+22	9,485506E+22
-901	3,774386E+22	3,774288E+22	9,683950E+21	9,684490E+21	7,548674E+22	1,936844E+22	9,485518E+22
-900	3,774183E+22	3,774343E+22	9,684723E+21	9,683922E+21	7,548526E+22	1,936864E+22	9,485391E+22
-899	3,774308E+22	3,774363E+22	9,684173E+21	9,684695E+21	7,548672E+22	1,936887E+22	9,485558E+22
-898	3,774388E+22	3,774231E+22	9,684156E+21	9,684299E+21	7,548619E+22	1,936846E+22	9,485465E+22
-897	3,774211E+22	3,774288E+22	9,684980E+21	9,684344E+21	7,548500E+22	1,936932E+22	9,485432E+22
-896	3,774349E+22	3,774247E+22	9,684362E+21	9,685327E+21	7,548596E+22	1,936969E+22	9,485565E+22
-895	3,774204E+22	3,774165E+22	9,685257E+21	9,685092E+21	7,548369E+22	1,937035E+22	9,485404E+22
-894	3,774052E+22	3,774221E+22	9,685954E+21	9,685718E+21	7,548273E+22	1,937167E+22	9,485440E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-893	3,774188E+22	3,774062E+22	9,685599E+21	9,686379E+21	7,548250E+22	1,937198E+22	9,485448E+22
-892	3,773947E+22	3,773995E+22	9,686863E+21	9,686013E+21	7,547941E+22	1,937288E+22	9,485229E+22
-891	3,773947E+22	3,774024E+22	9,686817E+21	9,686899E+21	7,547971E+22	1,937372E+22	9,485343E+22
-890	3,774025E+22	3,773879E+22	9,686566E+21	9,686936E+21	7,547904E+22	1,937350E+22	9,485254E+22
-889	3,773806E+22	3,773938E+22	9,687279E+21	9,686627E+21	7,547744E+22	1,937391E+22	9,485134E+22
-888	3,773976E+22	3,773960E+22	9,686366E+21	9,687239E+21	7,547937E+22	1,937361E+22	9,485297E+22
-887	3,773994E+22	3,773905E+22	9,686471E+21	9,686378E+21	7,547899E+22	1,937285E+22	9,485184E+22
-886	3,773920E+22	3,774064E+22	9,686659E+21	9,685937E+21	7,547985E+22	1,937260E+22	9,485244E+22
-885	3,774172E+22	3,774050E+22	9,685506E+21	9,686145E+21	7,548222E+22	1,937165E+22	9,485387E+22
-884	3,774033E+22	3,774069E+22	9,685920E+21	9,685217E+21	7,548102E+22	1,937114E+22	9,485215E+22
-883	3,774036E+22	3,774212E+22	9,685628E+21	9,685510E+21	7,548249E+22	1,937114E+22	9,485362E+22
-882	3,774221E+22	3,774121E+22	9,684846E+21	9,685447E+21	7,548342E+22	1,937029E+22	9,485371E+22
-881	3,774070E+22	3,774145E+22	9,685489E+21	9,684804E+21	7,548215E+22	1,937029E+22	9,485245E+22
-880	3,774209E+22	3,774189E+22	9,684951E+21	9,685457E+21	7,548398E+22	1,937041E+22	9,485439E+22
-879	3,774246E+22	3,774086E+22	9,685076E+21	9,685244E+21	7,548332E+22	1,937032E+22	9,485364E+22
-878	3,774038E+22	3,774182E+22	9,685945E+21	9,685262E+21	7,548220E+22	1,937121E+22	9,485341E+22
-877	3,774170E+22	3,774125E+22	9,685449E+21	9,686366E+21	7,548295E+22	1,937182E+22	9,485476E+22
-876	3,774004E+22	3,773983E+22	9,686406E+21	9,686185E+21	7,547986E+22	1,937259E+22	9,485245E+22
-875	3,773867E+22	3,774033E+22	9,687130E+21	9,686720E+21	7,547900E+22	1,937385E+22	9,485286E+22
-874	3,774012E+22	3,773868E+22	9,686779E+21	9,687426E+21	7,547880E+22	1,937421E+22	9,485301E+22
-873	3,773789E+22	3,773789E+22	9,687800E+21	9,687118E+21	7,547578E+22	1,937492E+22	9,485070E+22
-872	3,773780E+22	3,773854E+22	9,687635E+21	9,687934E+21	7,547634E+22	1,937557E+22	9,485190E+22
-871	3,773852E+22	3,773727E+22	9,687429E+21	9,688012E+21	7,547580E+22	1,937544E+22	9,485124E+22
-870	3,773665E+22	3,773808E+22	9,688102E+21	9,687391E+21	7,547472E+22	1,937549E+22	9,485022E+22
-869	3,773868E+22	3,773836E+22	9,687242E+21	9,687914E+21	7,547704E+22	1,937516E+22	9,485220E+22
-868	3,773865E+22	3,773756E+22	9,687324E+21	9,687066E+21	7,547622E+22	1,937439E+22	9,485061E+22
-867	3,773769E+22	3,773941E+22	9,687511E+21	9,686660E+21	7,547710E+22	1,937417E+22	9,485127E+22
-866	3,773996E+22	3,773933E+22	9,686363E+21	9,687015E+21	7,547928E+22	1,937338E+22	9,485266E+22
-865	3,773884E+22	3,773907E+22	9,686618E+21	9,686151E+21	7,547791E+22	1,937277E+22	9,485068E+22
-864	3,773908E+22	3,774051E+22	9,686329E+21	9,686303E+21	7,547958E+22	1,937263E+22	9,485222E+22
-863	3,774098E+22	3,773963E+22	9,685674E+21	9,686294E+21	7,548060E+22	1,937197E+22	9,485257E+22
-862	3,773957E+22	3,774011E+22	9,686339E+21	9,685530E+21	7,547968E+22	1,937187E+22	9,485155E+22
-861	3,774082E+22	3,774070E+22	9,685900E+21	9,686356E+21	7,548152E+22	1,937226E+22	9,485377E+22
-860	3,774055E+22	3,773936E+22	9,686081E+21	9,686335E+21	7,547991E+22	1,937242E+22	9,485233E+22
-859	3,773838E+22	3,774027E+22	9,687057E+21	9,686360E+21	7,547866E+22	1,937342E+22	9,485207E+22
-858	3,773975E+22	3,773946E+22	9,686648E+21	9,687450E+21	7,547921E+22	1,937410E+22	9,485331E+22
-857	3,773846E+22	3,773764E+22	9,687451E+21	9,687249E+21	7,547611E+22	1,937470E+22	9,485080E+22
-856	3,773718E+22	3,773833E+22	9,688107E+21	9,687680E+21	7,547551E+22	1,937579E+22	9,485129E+22
-855	3,773828E+22	3,773696E+22	9,687771E+21	9,688525E+21	7,547524E+22	1,937630E+22	9,485153E+22
-854	3,773609E+22	3,773653E+22	9,688691E+21	9,688100E+21	7,547263E+22	1,937679E+22	9,484942E+22
-853	3,773629E+22	3,773716E+22	9,688549E+21	9,688893E+21	7,547345E+22	1,937744E+22	9,485089E+22
-852	3,773689E+22	3,773562E+22	9,688358E+21	9,688897E+21	7,547251E+22	1,937726E+22	9,484977E+22
-851	3,773532E+22	3,773663E+22	9,689042E+21	9,688121E+21	7,547194E+22	1,937716E+22	9,484911E+22
-850	3,773733E+22	3,773696E+22	9,688213E+21	9,688647E+21	7,547429E+22	1,937686E+22	9,485115E+22
-849	3,773728E+22	3,773607E+22	9,688073E+21	9,687920E+21	7,547334E+22	1,937599E+22	9,484934E+22
-848	3,773614E+22	3,773804E+22	9,688186E+21	9,687498E+21	7,547418E+22	1,937568E+22	9,484986E+22
-847	3,773825E+22	3,773793E+22	9,687126E+21	9,687941E+21	7,547619E+22	1,937507E+22	9,485126E+22
-846	3,773754E+22	3,773771E+22	9,687367E+21	9,686874E+21	7,547525E+22	1,937424E+22	9,484949E+22
-845	3,773812E+22	3,773909E+22	9,687173E+21	9,687024E+21	7,547721E+22	1,937420E+22	9,485140E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-844	3,773963E+22	3,773807E+22	9,686586E+21	9,687125E+21	7,547770E+22	1,937371E+22	9,485141E+22
-843	3,773800E+22	3,773885E+22	9,687296E+21	9,686443E+21	7,547684E+22	1,937374E+22	9,485058E+22
-842	3,773893E+22	3,773941E+22	9,686962E+21	9,687406E+21	7,547834E+22	1,937437E+22	9,485270E+22
-841	3,773882E+22	3,773761E+22	9,687039E+21	9,687468E+21	7,547643E+22	1,937451E+22	9,485093E+22
-840	3,773672E+22	3,773840E+22	9,688050E+21	9,687355E+21	7,547513E+22	1,937541E+22	9,485053E+22
-839	3,773805E+22	3,773761E+22	9,687740E+21	9,688495E+21	7,547566E+22	1,937624E+22	9,485190E+22
-838	3,773692E+22	3,773589E+22	9,688482E+21	9,688188E+21	7,547280E+22	1,937667E+22	9,484947E+22
-837	3,773554E+22	3,773672E+22	9,689126E+21	9,688740E+21	7,547226E+22	1,937787E+22	9,485013E+22
-836	3,773623E+22	3,773521E+22	9,688764E+21	9,689675E+21	7,547144E+22	1,937844E+22	9,484988E+22
-835	3,773429E+22	3,773488E+22	9,689684E+21	9,689114E+21	7,546917E+22	1,937880E+22	9,484797E+22
-834	3,773475E+22	3,773555E+22	9,689595E+21	9,689774E+21	7,547030E+22	1,937937E+22	9,484967E+22
-833	3,773572E+22	3,773386E+22	9,689216E+21	9,689697E+21	7,546958E+22	1,937891E+22	9,484849E+22
-832	3,773409E+22	3,773515E+22	9,689837E+21	9,688818E+21	7,546924E+22	1,937866E+22	9,484790E+22
-831	3,773566E+22	3,773580E+22	9,689020E+21	9,689485E+21	7,547146E+22	1,937851E+22	9,484996E+22
-830	3,773563E+22	3,773500E+22	9,688794E+21	9,688705E+21	7,547063E+22	1,937750E+22	9,484813E+22
-829	3,773476E+22	3,773681E+22	9,688946E+21	9,688324E+21	7,547156E+22	1,937727E+22	9,484883E+22
-828	3,773674E+22	3,773635E+22	9,687946E+21	9,688770E+21	7,547309E+22	1,937672E+22	9,484981E+22
-827	3,773637E+22	3,773622E+22	9,688233E+21	9,687637E+21	7,547259E+22	1,937587E+22	9,484846E+22
-826	3,773690E+22	3,773765E+22	9,688130E+21	9,687864E+21	7,547455E+22	1,937599E+22	9,485055E+22
-825	3,773821E+22	3,773655E+22	9,687402E+21	9,688134E+21	7,547477E+22	1,937554E+22	9,485030E+22
-824	3,773640E+22	3,773737E+22	9,688137E+21	9,687458E+21	7,547377E+22	1,937559E+22	9,484937E+22
-823	3,773707E+22	3,773783E+22	9,687955E+21	9,688454E+21	7,547490E+22	1,937641E+22	9,485131E+22
-822	3,773724E+22	3,773598E+22	9,688041E+21	9,688361E+21	7,547322E+22	1,937640E+22	9,484962E+22
-821	3,773537E+22	3,773663E+22	9,689108E+21	9,688272E+21	7,547201E+22	1,937738E+22	9,484939E+22
-820	3,773612E+22	3,773570E+22	9,688844E+21	9,689526E+21	7,547182E+22	1,937837E+22	9,485019E+22
-819	3,773495E+22	3,773427E+22	9,689556E+21	9,689274E+21	7,546922E+22	1,937883E+22	9,484805E+22
-818	3,773357E+22	3,773507E+22	9,690231E+21	9,689865E+21	7,546864E+22	1,938010E+22	9,484873E+22
-817	3,773455E+22	3,773334E+22	9,689710E+21	9,690770E+21	7,546789E+22	1,938048E+22	9,484837E+22
-816	3,773292E+22	3,773314E+22	9,690587E+21	9,689993E+21	7,546606E+22	1,938058E+22	9,484664E+22
-815	3,773332E+22	3,773402E+22	9,690553E+21	9,690611E+21	7,546734E+22	1,938116E+22	9,484851E+22
-814	3,773437E+22	3,773262E+22	9,690070E+21	9,690440E+21	7,546699E+22	1,938051E+22	9,484750E+22
-813	3,773261E+22	3,773399E+22	9,690644E+21	9,689683E+21	7,546659E+22	1,938033E+22	9,484692E+22
-812	3,773365E+22	3,773439E+22	9,689847E+21	9,690432E+21	7,546804E+22	1,938028E+22	9,484832E+22
-811	3,773402E+22	3,773353E+22	9,689626E+21	9,689560E+21	7,546755E+22	1,937919E+22	9,484673E+22
-810	3,773351E+22	3,773521E+22	9,689837E+21	9,689111E+21	7,546872E+22	1,937895E+22	9,484766E+22
-809	3,773580E+22	3,773462E+22	9,688693E+21	9,689559E+21	7,547042E+22	1,937825E+22	9,484867E+22
-808	3,773534E+22	3,773476E+22	9,688957E+21	9,688389E+21	7,547011E+22	1,937735E+22	9,484745E+22
-807	3,773537E+22	3,773654E+22	9,688946E+21	9,688760E+21	7,547191E+22	1,937771E+22	9,484962E+22
-806	3,773666E+22	3,773542E+22	9,688224E+21	9,688988E+21	7,547208E+22	1,937721E+22	9,484930E+22
-805	3,773488E+22	3,773598E+22	9,689087E+21	9,688381E+21	7,547087E+22	1,937747E+22	9,484834E+22
-804	3,773517E+22	3,773609E+22	9,689037E+21	9,689406E+21	7,547126E+22	1,937844E+22	9,484971E+22
-803	3,773557E+22	3,773417E+22	9,689183E+21	9,689321E+21	7,546974E+22	1,937850E+22	9,484824E+22
-802	3,773364E+22	3,773478E+22	9,690290E+21	9,689358E+21	7,546842E+22	1,937965E+22	9,484806E+22
-801	3,773425E+22	3,773373E+22	9,689823E+21	9,690758E+21	7,546798E+22	1,938058E+22	9,484856E+22
-800	3,773316E+22	3,773238E+22	9,690484E+21	9,690430E+21	7,546554E+22	1,938091E+22	9,484645E+22
-799	3,773183E+22	3,773334E+22	9,691220E+21	9,690943E+21	7,546517E+22	1,938216E+22	9,484733E+22
-798	3,773320E+22	3,773177E+22	9,690653E+21	9,691598E+21	7,546498E+22	1,938225E+22	9,484723E+22
-797	3,773177E+22	3,773171E+22	9,691532E+21	9,690791E+21	7,546348E+22	1,938232E+22	9,484580E+22
-796	3,773149E+22	3,773261E+22	9,691518E+21	9,691456E+21	7,546410E+22	1,938297E+22	9,484708E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-795	3,773251E+22	3,773140E+22	9,690985E+21	9,691328E+21	7,546391E+22	1,938231E+22	9,484622E+22
-794	3,773086E+22	3,773255E+22	9,691558E+21	9,690615E+21	7,546341E+22	1,938217E+22	9,484558E+22
-793	3,773217E+22	3,773263E+22	9,690593E+21	9,691336E+21	7,546480E+22	1,938193E+22	9,484673E+22
-792	3,773302E+22	3,773184E+22	9,690333E+21	9,690309E+21	7,546486E+22	1,938064E+22	9,484551E+22
-791	3,773252E+22	3,773372E+22	9,690600E+21	9,689845E+21	7,546625E+22	1,938044E+22	9,484669E+22
-790	3,773476E+22	3,773348E+22	9,689425E+21	9,690256E+21	7,546824E+22	1,937968E+22	9,484792E+22
-789	3,773409E+22	3,773375E+22	9,689707E+21	9,689241E+21	7,546784E+22	1,937895E+22	9,484679E+22
-788	3,773337E+22	3,773520E+22	9,689867E+21	9,689689E+21	7,546857E+22	1,937956E+22	9,484813E+22
-787	3,773487E+22	3,773397E+22	9,689260E+21	9,689892E+21	7,546884E+22	1,937915E+22	9,484799E+22
-786	3,773330E+22	3,773418E+22	9,690238E+21	9,689325E+21	7,546747E+22	1,937956E+22	9,484704E+22
-785	3,773357E+22	3,773402E+22	9,690068E+21	9,690437E+21	7,546758E+22	1,938050E+22	9,484809E+22
-784	3,773394E+22	3,773226E+22	9,690155E+21	9,690401E+21	7,546619E+22	1,938056E+22	9,484675E+22
-783	3,773171E+22	3,773309E+22	9,691259E+21	9,690543E+21	7,546481E+22	1,938180E+22	9,484661E+22
-782	3,773256E+22	3,773214E+22	9,690753E+21	9,691828E+21	7,546470E+22	1,938258E+22	9,484728E+22
-781	3,773174E+22	3,773082E+22	9,691440E+21	9,691435E+21	7,546255E+22	1,938288E+22	9,484543E+22
-780	3,773009E+22	3,773168E+22	9,692295E+21	9,691856E+21	7,546177E+22	1,938415E+22	9,484593E+22
-779	3,773168E+22	3,773028E+22	9,691762E+21	9,692442E+21	7,546196E+22	1,938420E+22	9,484616E+22
-778	3,773008E+22	3,773024E+22	9,692625E+21	9,691744E+21	7,546033E+22	1,938437E+22	9,484469E+22
-777	3,772960E+22	3,773096E+22	9,692375E+21	9,692498E+21	7,546056E+22	1,938487E+22	9,484543E+22
-776	3,773083E+22	3,772965E+22	9,691757E+21	9,692273E+21	7,546049E+22	1,938403E+22	9,484452E+22
-775	3,772944E+22	3,773090E+22	9,692320E+21	9,691468E+21	7,546034E+22	1,938379E+22	9,484413E+22
-774	3,773130E+22	3,773112E+22	9,691285E+21	9,691967E+21	7,546241E+22	1,938325E+22	9,484567E+22
-773	3,773224E+22	3,773061E+22	9,691024E+21	9,690943E+21	7,546285E+22	1,938197E+22	9,484482E+22
-772	3,773102E+22	3,773266E+22	9,691392E+21	9,690578E+21	7,546368E+22	1,938197E+22	9,484565E+22
-771	3,773310E+22	3,773255E+22	9,690299E+21	9,691049E+21	7,546564E+22	1,938135E+22	9,484699E+22
-770	3,773238E+22	3,773250E+22	9,690700E+21	9,690172E+21	7,546488E+22	1,938087E+22	9,484575E+22
-769	3,773164E+22	3,773345E+22	9,690792E+21	9,690658E+21	7,546509E+22	1,938145E+22	9,484654E+22
-768	3,773342E+22	3,773203E+22	9,690214E+21	9,690834E+21	7,546544E+22	1,938105E+22	9,484649E+22
-767	3,773182E+22	3,773229E+22	9,691231E+21	9,690355E+21	7,546410E+22	1,938159E+22	9,484569E+22
-766	3,773207E+22	3,773230E+22	9,690985E+21	9,691475E+21	7,546438E+22	1,938246E+22	9,484684E+22
-765	3,773234E+22	3,773071E+22	9,691049E+21	9,691541E+21	7,546305E+22	1,938259E+22	9,484564E+22
-764	3,772968E+22	3,773139E+22	9,692282E+21	9,691657E+21	7,546107E+22	1,938394E+22	9,484501E+22
-763	3,773085E+22	3,773054E+22	9,691890E+21	9,692791E+21	7,546139E+22	1,938468E+22	9,484607E+22
-762	3,773027E+22	3,772913E+22	9,692646E+21	9,692376E+21	7,545940E+22	1,938502E+22	9,484442E+22
-761	3,772842E+22	3,772985E+22	9,693354E+21	9,692802E+21	7,545827E+22	1,938616E+22	9,484443E+22
-760	3,772995E+22	3,772864E+22	9,692729E+21	9,693409E+21	7,545859E+22	1,938614E+22	9,484473E+22
-759	3,772818E+22	3,772867E+22	9,693513E+21	9,692763E+21	7,545685E+22	1,938628E+22	9,484313E+22
-758	3,772799E+22	3,772939E+22	9,693149E+21	9,693372E+21	7,545737E+22	1,938652E+22	9,484390E+22
-757	3,772965E+22	3,772821E+22	9,692467E+21	9,693067E+21	7,545786E+22	1,938553E+22	9,484339E+22
-756	3,772810E+22	3,772940E+22	9,693114E+21	9,692184E+21	7,545750E+22	1,938530E+22	9,484280E+22
-755	3,773016E+22	3,772995E+22	9,692157E+21	9,692638E+21	7,546011E+22	1,938479E+22	9,484491E+22
-754	3,773091E+22	3,772955E+22	9,691916E+21	9,691773E+21	7,546046E+22	1,938369E+22	9,484415E+22
-753	3,772929E+22	3,773130E+22	9,692177E+21	9,691516E+21	7,546060E+22	1,938369E+22	9,484429E+22
-752	3,773149E+22	3,773098E+22	9,691130E+21	9,691958E+21	7,546247E+22	1,938309E+22	9,484556E+22
-751	3,773086E+22	3,773080E+22	9,691596E+21	9,691093E+21	7,546166E+22	1,938269E+22	9,484435E+22
-750	3,773044E+22	3,773170E+22	9,691666E+21	9,691481E+21	7,546214E+22	1,938315E+22	9,484528E+22
-749	3,773220E+22	3,773045E+22	9,691079E+21	9,691740E+21	7,546265E+22	1,938282E+22	9,484547E+22
-748	3,772996E+22	3,773075E+22	9,692185E+21	9,691386E+21	7,546070E+22	1,938357E+22	9,484428E+22
-747	3,773024E+22	3,773089E+22	9,692035E+21	9,692514E+21	7,546113E+22	1,938455E+22	9,484568E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-746	3,773057E+22	3,772917E+22	9,692194E+21	9,692645E+21	7,545973E+22	1,938484E+22	9,484457E+22
-745	3,772795E+22	3,772951E+22	9,693361E+21	9,692715E+21	7,545746E+22	1,938608E+22	9,484354E+22
-744	3,772935E+22	3,772859E+22	9,693007E+21	9,693748E+21	7,545794E+22	1,938676E+22	9,484469E+22
-743	3,772859E+22	3,772739E+22	9,693744E+21	9,693401E+21	7,545599E+22	1,938714E+22	9,484313E+22
-742	3,772670E+22	3,772825E+22	9,694273E+21	9,693807E+21	7,545495E+22	1,938808E+22	9,484303E+22
-741	3,772814E+22	3,772712E+22	9,693543E+21	9,694435E+21	7,545525E+22	1,938798E+22	9,484323E+22
-740	3,772622E+22	3,772699E+22	9,694372E+21	9,693722E+21	7,545321E+22	1,938809E+22	9,484131E+22
-739	3,772659E+22	3,772783E+22	9,694057E+21	9,694129E+21	7,545442E+22	1,938819E+22	9,484260E+22
-738	3,772856E+22	3,772679E+22	9,693390E+21	9,693813E+21	7,545535E+22	1,938720E+22	9,484255E+22
-737	3,772686E+22	3,772796E+22	9,693885E+21	9,692956E+21	7,545482E+22	1,938684E+22	9,484166E+22
-736	3,772880E+22	3,772869E+22	9,692921E+21	9,693438E+21	7,545749E+22	1,938636E+22	9,484385E+22
-735	3,772932E+22	3,772837E+22	9,692689E+21	9,692661E+21	7,545769E+22	1,938535E+22	9,484304E+22
-734	3,772788E+22	3,772991E+22	9,692922E+21	9,692327E+21	7,545780E+22	1,938525E+22	9,484305E+22
-733	3,773023E+22	3,772955E+22	9,691908E+21	9,692745E+21	7,545979E+22	1,938465E+22	9,484444E+22
-732	3,772936E+22	3,772914E+22	9,692528E+21	9,691934E+21	7,545850E+22	1,938446E+22	9,484296E+22
-731	3,772899E+22	3,773020E+22	9,692707E+21	9,692360E+21	7,545919E+22	1,938507E+22	9,484426E+22
-730	3,773054E+22	3,772904E+22	9,692142E+21	9,692843E+21	7,545958E+22	1,938499E+22	9,484457E+22
-729	3,772798E+22	3,772896E+22	9,693150E+21	9,692559E+21	7,545694E+22	1,938571E+22	9,484265E+22
-728	3,772852E+22	3,772899E+22	9,693086E+21	9,693607E+21	7,545751E+22	1,938669E+22	9,484420E+22
-727	3,772896E+22	3,772730E+22	9,693290E+21	9,693678E+21	7,545626E+22	1,938697E+22	9,484322E+22
-726	3,772651E+22	3,772767E+22	9,694409E+21	9,693644E+21	7,545418E+22	1,938805E+22	9,484223E+22
-725	3,772776E+22	3,772706E+22	9,693991E+21	9,694704E+21	7,545481E+22	1,938869E+22	9,484351E+22
-724	3,772640E+22	3,772584E+22	9,694757E+21	9,694460E+21	7,545225E+22	1,938922E+22	9,484146E+22
-723	3,772467E+22	3,772676E+22	9,695295E+21	9,694805E+21	7,545143E+22	1,939010E+22	9,484153E+22
-722	3,772640E+22	3,772555E+22	9,694543E+21	9,695435E+21	7,545195E+22	1,938998E+22	9,484193E+22
-721	3,772472E+22	3,772513E+22	9,695215E+21	9,694617E+21	7,544985E+22	1,938983E+22	9,483969E+22
-720	3,772557E+22	3,772608E+22	9,694912E+21	9,694904E+21	7,545165E+22	1,938982E+22	9,484146E+22
-719	3,772738E+22	3,772546E+22	9,694208E+21	9,694619E+21	7,545284E+22	1,938883E+22	9,484167E+22
-718	3,772561E+22	3,772680E+22	9,694569E+21	9,693766E+21	7,545241E+22	1,938834E+22	9,484075E+22
-717	3,772736E+22	3,772760E+22	9,693588E+21	9,694230E+21	7,545496E+22	1,938782E+22	9,484278E+22
-716	3,772760E+22	3,772702E+22	9,693510E+21	9,693468E+21	7,545461E+22	1,938698E+22	9,484159E+22
-715	3,772652E+22	3,772848E+22	9,693869E+21	9,693041E+21	7,545500E+22	1,938691E+22	9,484191E+22
-714	3,772889E+22	3,772811E+22	9,692922E+21	9,693580E+21	7,545700E+22	1,938650E+22	9,484351E+22
-713	3,772777E+22	3,772748E+22	9,693432E+21	9,692912E+21	7,545525E+22	1,938634E+22	9,484159E+22
-712	3,772739E+22	3,772849E+22	9,693644E+21	9,693405E+21	7,545587E+22	1,938705E+22	9,484292E+22
-711	3,772872E+22	3,772744E+22	9,693113E+21	9,693959E+21	7,545617E+22	1,938707E+22	9,484324E+22
-710	3,772647E+22	3,772724E+22	9,694067E+21	9,693593E+21	7,545371E+22	1,938766E+22	9,484137E+22
-709	3,772706E+22	3,772732E+22	9,694051E+21	9,694540E+21	7,545438E+22	1,938859E+22	9,484297E+22
-708	3,772719E+22	3,772558E+22	9,694414E+21	9,694664E+21	7,545278E+22	1,938908E+22	9,484185E+22
-707	3,772472E+22	3,772611E+22	9,695584E+21	9,694639E+21	7,545083E+22	1,939022E+22	9,484105E+22
-706	3,772568E+22	3,772557E+22	9,695122E+21	9,695859E+21	7,545125E+22	1,939098E+22	9,484223E+22
-705	3,772424E+22	3,772389E+22	9,695724E+21	9,695627E+21	7,544813E+22	1,939135E+22	9,483948E+22
-704	3,772305E+22	3,772465E+22	9,696254E+21	9,695812E+21	7,544770E+22	1,939207E+22	9,483976E+22
-703	3,772507E+22	3,772374E+22	9,695463E+21	9,696315E+21	7,544881E+22	1,939178E+22	9,484059E+22
-702	3,772379E+22	3,772354E+22	9,695978E+21	9,695369E+21	7,544733E+22	1,939135E+22	9,483868E+22
-701	3,772446E+22	3,772497E+22	9,695615E+21	9,695614E+21	7,544943E+22	1,939123E+22	9,484066E+22
-700	3,772569E+22	3,772447E+22	9,694994E+21	9,695410E+21	7,545016E+22	1,939040E+22	9,484056E+22
-699	3,772397E+22	3,772580E+22	9,695443E+21	9,694517E+21	7,544977E+22	1,938996E+22	9,483973E+22
-698	3,772578E+22	3,772645E+22	9,694517E+21	9,695041E+21	7,545223E+22	1,938956E+22	9,484178E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-697	3,772604E+22	3,772528E+22	9,694378E+21	9,694309E+21	7,545132E+22	1,938869E+22	9,484000E+22
-696	3,772530E+22	3,772661E+22	9,694798E+21	9,693915E+21	7,545191E+22	1,938871E+22	9,484062E+22
-695	3,772744E+22	3,772651E+22	9,693825E+21	9,694578E+21	7,545395E+22	1,938840E+22	9,484235E+22
-694	3,772628E+22	3,772587E+22	9,694196E+21	9,693975E+21	7,545216E+22	1,938817E+22	9,484033E+22
-693	3,772585E+22	3,772698E+22	9,694426E+21	9,694406E+21	7,545283E+22	1,938883E+22	9,484166E+22
-692	3,772697E+22	3,772580E+22	9,694104E+21	9,694929E+21	7,545277E+22	1,938903E+22	9,484181E+22
-691	3,772499E+22	3,772566E+22	9,695215E+21	9,694460E+21	7,545065E+22	1,938967E+22	9,484032E+22
-690	3,772542E+22	3,772584E+22	9,695265E+21	9,695504E+21	7,545125E+22	1,939077E+22	9,484202E+22
-689	3,772512E+22	3,772380E+22	9,695520E+21	9,695777E+21	7,544892E+22	1,939130E+22	9,484022E+22
-688	3,772274E+22	3,772418E+22	9,696669E+21	9,695802E+21	7,544692E+22	1,939247E+22	9,483939E+22
-687	3,772365E+22	3,772372E+22	9,696154E+21	9,696997E+21	7,544737E+22	1,939315E+22	9,484052E+22
-686	3,772277E+22	3,772195E+22	9,696583E+21	9,696636E+21	7,544472E+22	1,939322E+22	9,483794E+22
-685	3,772192E+22	3,772295E+22	9,697052E+21	9,696621E+21	7,544486E+22	1,939367E+22	9,483854E+22
-684	3,772373E+22	3,772231E+22	9,696377E+21	9,697114E+21	7,544604E+22	1,939349E+22	9,483953E+22
-683	3,772245E+22	3,772251E+22	9,696893E+21	9,696143E+21	7,544496E+22	1,939304E+22	9,483800E+22
-682	3,772276E+22	3,772406E+22	9,696512E+21	9,696486E+21	7,544682E+22	1,939300E+22	9,483982E+22
-681	3,772380E+22	3,772304E+22	9,695812E+21	9,696310E+21	7,544685E+22	1,939212E+22	9,483897E+22
-680	3,772258E+22	3,772397E+22	9,696307E+21	9,695340E+21	7,544654E+22	1,939165E+22	9,483819E+22
-679	3,772439E+22	3,772475E+22	9,695391E+21	9,695829E+21	7,544914E+22	1,939122E+22	9,484036E+22
-678	3,772498E+22	3,772361E+22	9,695098E+21	9,695142E+21	7,544859E+22	1,939024E+22	9,483883E+22
-677	3,772408E+22	3,772520E+22	9,695468E+21	9,694764E+21	7,544928E+22	1,939023E+22	9,483951E+22
-676	3,772574E+22	3,772521E+22	9,694657E+21	9,695535E+21	7,545095E+22	1,939019E+22	9,484114E+22
-675	3,772474E+22	3,772460E+22	9,695140E+21	9,694872E+21	7,544934E+22	1,939001E+22	9,483935E+22
-674	3,772428E+22	3,772565E+22	9,695490E+21	9,695327E+21	7,544993E+22	1,939082E+22	9,484075E+22
-673	3,772526E+22	3,772399E+22	9,695204E+21	9,695896E+21	7,544925E+22	1,939110E+22	9,484035E+22
-672	3,772344E+22	3,772365E+22	9,696416E+21	9,695508E+21	7,544709E+22	1,939192E+22	9,483902E+22
-671	3,772339E+22	3,772411E+22	9,696427E+21	9,696665E+21	7,544750E+22	1,939309E+22	9,484059E+22
-670	3,772316E+22	3,772190E+22	9,696480E+21	9,697015E+21	7,544506E+22	1,939349E+22	9,483856E+22
-669	3,772096E+22	3,772225E+22	9,697550E+21	9,696896E+21	7,544321E+22	1,939445E+22	9,483766E+22
-668	3,772193E+22	3,772183E+22	9,697147E+21	9,697982E+21	7,544376E+22	1,939513E+22	9,483889E+22
-667	3,772149E+22	3,772040E+22	9,697596E+21	9,697439E+21	7,544188E+22	1,939503E+22	9,483692E+22
-666	3,772061E+22	3,772178E+22	9,698047E+21	9,697454E+21	7,544239E+22	1,939550E+22	9,483789E+22
-665	3,772197E+22	3,772097E+22	9,697280E+21	9,698007E+21	7,544294E+22	1,939529E+22	9,483823E+22
-664	3,772079E+22	3,772108E+22	9,697793E+21	9,697062E+21	7,544187E+22	1,939486E+22	9,483672E+22
-663	3,772099E+22	3,772266E+22	9,697372E+21	9,697345E+21	7,544365E+22	1,939472E+22	9,483836E+22
-662	3,772246E+22	3,772135E+22	9,696516E+21	9,697125E+21	7,544380E+22	1,939364E+22	9,483744E+22
-661	3,772155E+22	3,772231E+22	9,696969E+21	9,696046E+21	7,544386E+22	1,939302E+22	9,483688E+22
-660	3,772313E+22	3,772326E+22	9,696197E+21	9,696611E+21	7,544639E+22	1,939281E+22	9,483920E+22
-659	3,772368E+22	3,772248E+22	9,695924E+21	9,695972E+21	7,544616E+22	1,939190E+22	9,483805E+22
-658	3,772254E+22	3,772416E+22	9,696322E+21	9,695712E+21	7,544669E+22	1,939203E+22	9,483873E+22
-657	3,772394E+22	3,772363E+22	9,695579E+21	9,696499E+21	7,544757E+22	1,939208E+22	9,483964E+22
-656	3,772335E+22	3,772275E+22	9,696199E+21	9,695809E+21	7,544610E+22	1,939201E+22	9,483811E+22
-655	3,772267E+22	3,772394E+22	9,696625E+21	9,696244E+21	7,544661E+22	1,939287E+22	9,483947E+22
-654	3,772371E+22	3,772219E+22	9,696218E+21	9,696946E+21	7,544590E+22	1,939316E+22	9,483906E+22
-653	3,772167E+22	3,772194E+22	9,697358E+21	9,696596E+21	7,544361E+22	1,939395E+22	9,483756E+22
-652	3,772120E+22	3,772240E+22	9,697474E+21	9,697830E+21	7,544360E+22	1,939530E+22	9,483890E+22
-651	3,772134E+22	3,772024E+22	9,697533E+21	9,698078E+21	7,544158E+22	1,939561E+22	9,483719E+22
-650	3,771936E+22	3,772063E+22	9,698587E+21	9,697893E+21	7,543999E+22	1,939648E+22	9,483647E+22
-649	3,772036E+22	3,771996E+22	9,698190E+21	9,698932E+21	7,544031E+22	1,939712E+22	9,483743E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-648	3,772022E+22	3,771863E+22	9,698637E+21	9,698382E+21	7,543884E+22	1,939702E+22	9,483586E+22
-647	3,771883E+22	3,772043E+22	9,699015E+21	9,698399E+21	7,543926E+22	1,939741E+22	9,483668E+22
-646	3,772030E+22	3,771950E+22	9,698039E+21	9,698977E+21	7,543980E+22	1,939702E+22	9,483682E+22
-645	3,771932E+22	3,771946E+22	9,698479E+21	9,697863E+21	7,543878E+22	1,939634E+22	9,483512E+22
-644	3,771949E+22	3,772107E+22	9,698186E+21	9,698072E+21	7,544056E+22	1,939626E+22	9,483682E+22
-643	3,772134E+22	3,771999E+22	9,697343E+21	9,697765E+21	7,544134E+22	1,939511E+22	9,483644E+22
-642	3,772037E+22	3,772121E+22	9,697773E+21	9,696805E+21	7,544158E+22	1,939458E+22	9,483616E+22
-641	3,772150E+22	3,772193E+22	9,697018E+21	9,697497E+21	7,544343E+22	1,939451E+22	9,483795E+22
-640	3,772222E+22	3,772102E+22	9,696813E+21	9,696920E+21	7,544323E+22	1,939373E+22	9,483697E+22
-639	3,772088E+22	3,772277E+22	9,697277E+21	9,696622E+21	7,544365E+22	1,939390E+22	9,483754E+22
-638	3,772256E+22	3,772192E+22	9,696474E+21	9,697425E+21	7,544448E+22	1,939390E+22	9,483838E+22
-637	3,772206E+22	3,772099E+22	9,697131E+21	9,696713E+21	7,544305E+22	1,939384E+22	9,483689E+22
-636	3,772089E+22	3,772229E+22	9,697713E+21	9,697283E+21	7,544319E+22	1,939500E+22	9,483818E+22
-635	3,772177E+22	3,772073E+22	9,697296E+21	9,698057E+21	7,544251E+22	1,939535E+22	9,483786E+22
-634	3,771969E+22	3,772039E+22	9,698400E+21	9,697792E+21	7,544009E+22	1,939619E+22	9,483628E+22
-633	3,771918E+22	3,772026E+22	9,698546E+21	9,698952E+21	7,543944E+22	1,939750E+22	9,483694E+22
-632	3,771987E+22	3,771809E+22	9,698646E+21	9,699095E+21	7,543796E+22	1,939774E+22	9,483570E+22
-631	3,771788E+22	3,771890E+22	9,699663E+21	9,698813E+21	7,543678E+22	1,939848E+22	9,483525E+22
-630	3,771892E+22	3,771831E+22	9,699103E+21	9,699896E+21	7,543723E+22	1,939900E+22	9,483623E+22
-629	3,771864E+22	3,771726E+22	9,699441E+21	9,699289E+21	7,543589E+22	1,939873E+22	9,483462E+22
-628	3,771693E+22	3,771911E+22	9,699897E+21	9,699289E+21	7,543604E+22	1,939919E+22	9,483523E+22
-627	3,771869E+22	3,771822E+22	9,698904E+21	9,699732E+21	7,543691E+22	1,939864E+22	9,483555E+22
-626	3,771798E+22	3,771815E+22	9,699307E+21	9,698609E+21	7,543612E+22	1,939792E+22	9,483404E+22
-625	3,771808E+22	3,771936E+22	9,699056E+21	9,698839E+21	7,543744E+22	1,939789E+22	9,483533E+22
-624	3,772016E+22	3,771846E+22	9,698225E+21	9,698635E+21	7,543862E+22	1,939686E+22	9,483548E+22
-623	3,771880E+22	3,772000E+22	9,698594E+21	9,697735E+21	7,543880E+22	1,939633E+22	9,483513E+22
-622	3,772006E+22	3,772045E+22	9,697740E+21	9,698480E+21	7,544051E+22	1,939622E+22	9,483673E+22
-621	3,772095E+22	3,771943E+22	9,697549E+21	9,697761E+21	7,544038E+22	1,939531E+22	9,483569E+22
-620	3,771943E+22	3,772120E+22	9,698226E+21	9,697439E+21	7,544063E+22	1,939567E+22	9,483630E+22
-619	3,772120E+22	3,772056E+22	9,697497E+21	9,698230E+21	7,544176E+22	1,939573E+22	9,483748E+22
-618	3,772041E+22	3,771968E+22	9,698161E+21	9,697710E+21	7,544009E+22	1,939587E+22	9,483596E+22
-617	3,771870E+22	3,772055E+22	9,698798E+21	9,698426E+21	7,543925E+22	1,939722E+22	9,483648E+22
-616	3,771987E+22	3,771877E+22	9,698407E+21	9,699242E+21	7,543864E+22	1,939765E+22	9,483629E+22
-615	3,771776E+22	3,771847E+22	9,699489E+21	9,698882E+21	7,543623E+22	1,939837E+22	9,483460E+22
-614	3,771774E+22	3,771816E+22	9,699525E+21	9,699998E+21	7,543589E+22	1,939952E+22	9,483541E+22
-613	3,771863E+22	3,771620E+22	9,699594E+21	9,700018E+21	7,543483E+22	1,939961E+22	9,483444E+22
-612	3,771621E+22	3,771743E+22	9,700698E+21	9,699792E+21	7,543364E+22	1,940049E+22	9,483413E+22
-611	3,771711E+22	3,771717E+22	9,700086E+21	9,700840E+21	7,543428E+22	1,940093E+22	9,483521E+22
-610	3,771677E+22	3,771605E+22	9,700360E+21	9,700254E+21	7,543282E+22	1,940061E+22	9,483344E+22
-609	3,771503E+22	3,771731E+22	9,700847E+21	9,700171E+21	7,543234E+22	1,940102E+22	9,483336E+22
-608	3,771732E+22	3,771639E+22	9,699852E+21	9,700539E+21	7,543371E+22	1,940039E+22	9,483410E+22
-607	3,771662E+22	3,771663E+22	9,700185E+21	9,699395E+21	7,543325E+22	1,939958E+22	9,483283E+22
-606	3,771686E+22	3,771783E+22	9,699765E+21	9,699729E+21	7,543469E+22	1,939949E+22	9,483418E+22
-605	3,771888E+22	3,771716E+22	9,698866E+21	9,699489E+21	7,543604E+22	1,939835E+22	9,483440E+22
-604	3,771731E+22	3,771880E+22	9,699359E+21	9,698595E+21	7,543611E+22	1,939795E+22	9,483407E+22
-603	3,771872E+22	3,771930E+22	9,698581E+21	9,699202E+21	7,543802E+22	1,939778E+22	9,483580E+22
-602	3,771971E+22	3,771823E+22	9,698452E+21	9,698540E+21	7,543795E+22	1,939699E+22	9,483494E+22
-601	3,771784E+22	3,771945E+22	9,699284E+21	9,698318E+21	7,543729E+22	1,939760E+22	9,483489E+22
-600	3,771947E+22	3,771888E+22	9,698611E+21	9,699274E+21	7,543834E+22	1,939789E+22	9,483623E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-599	3,771831E+22	3,771810E+22	9,699223E+21	9,698878E+21	7,543641E+22	1,939810E+22	9,483451E+22
-598	3,771684E+22	3,771842E+22	9,699751E+21	9,699639E+21	7,543527E+22	1,939939E+22	9,483466E+22
-597	3,771833E+22	3,771665E+22	9,699343E+21	9,700280E+21	7,543498E+22	1,939962E+22	9,483460E+22
-596	3,771627E+22	3,771659E+22	9,700530E+21	9,699850E+21	7,543286E+22	1,940038E+22	9,483324E+22
-595	3,771632E+22	3,771670E+22	9,700587E+21	9,700882E+21	7,543302E+22	1,940147E+22	9,483449E+22
-594	3,771696E+22	3,771508E+22	9,700612E+21	9,701010E+21	7,543204E+22	1,940162E+22	9,483366E+22
-593	3,771405E+22	3,771590E+22	9,701767E+21	9,700840E+21	7,542995E+22	1,940261E+22	9,483256E+22
-592	3,771517E+22	3,771555E+22	9,701156E+21	9,701847E+21	7,543072E+22	1,940300E+22	9,483372E+22
-591	3,771492E+22	3,771442E+22	9,701347E+21	9,701174E+21	7,542933E+22	1,940252E+22	9,483186E+22
-590	3,771370E+22	3,771531E+22	9,701666E+21	9,701072E+21	7,542901E+22	1,940274E+22	9,483175E+22
-589	3,771626E+22	3,771463E+22	9,700584E+21	9,701343E+21	7,543090E+22	1,940193E+22	9,483282E+22
-588	3,771530E+22	3,771533E+22	9,700927E+21	9,700267E+21	7,543063E+22	1,940119E+22	9,483182E+22
-587	3,771556E+22	3,771684E+22	9,700480E+21	9,700544E+21	7,543240E+22	1,940102E+22	9,483343E+22
-586	3,771756E+22	3,771613E+22	9,699600E+21	9,700276E+21	7,543370E+22	1,939988E+22	9,483357E+22
-585	3,771579E+22	3,771724E+22	9,700267E+21	9,699345E+21	7,543304E+22	1,939961E+22	9,483265E+22
-584	3,771741E+22	3,771774E+22	9,699599E+21	9,699938E+21	7,543515E+22	1,939954E+22	9,483469E+22
-583	3,771806E+22	3,771680E+22	9,699493E+21	9,699406E+21	7,543485E+22	1,939890E+22	9,483375E+22
-582	3,771612E+22	3,771769E+22	9,700214E+21	9,699408E+21	7,543381E+22	1,939962E+22	9,483343E+22
-581	3,771767E+22	3,771709E+22	9,699503E+21	9,700370E+21	7,543476E+22	1,939987E+22	9,483463E+22
-580	3,771644E+22	3,771632E+22	9,700198E+21	9,699999E+21	7,543276E+22	1,940020E+22	9,483296E+22
-579	3,771532E+22	3,771673E+22	9,700743E+21	9,700611E+21	7,543205E+22	1,940135E+22	9,483340E+22
-578	3,771694E+22	3,771509E+22	9,700373E+21	9,701248E+21	7,543203E+22	1,940162E+22	9,483365E+22
-577	3,771456E+22	3,771479E+22	9,701698E+21	9,700887E+21	7,542936E+22	1,940258E+22	9,483194E+22
-576	3,771445E+22	3,771517E+22	9,701772E+21	9,701978E+21	7,542962E+22	1,940375E+22	9,483337E+22
-575	3,771477E+22	3,771365E+22	9,701729E+21	9,702153E+21	7,542841E+22	1,940388E+22	9,483229E+22
-574	3,771217E+22	3,771386E+22	9,702716E+21	9,701961E+21	7,542603E+22	1,940468E+22	9,483071E+22
-573	3,771365E+22	3,771350E+22	9,702019E+21	9,702731E+21	7,542715E+22	1,940475E+22	9,483190E+22
-572	3,771359E+22	3,771266E+22	9,702204E+21	9,702003E+21	7,542625E+22	1,940421E+22	9,483045E+22
-571	3,771257E+22	3,771393E+22	9,702449E+21	9,701805E+21	7,542651E+22	1,940425E+22	9,483076E+22
-570	3,771500E+22	3,771371E+22	9,701308E+21	9,702142E+21	7,542871E+22	1,940345E+22	9,483216E+22
-569	3,771372E+22	3,771406E+22	9,701730E+21	9,701093E+21	7,542778E+22	1,940282E+22	9,483060E+22
-568	3,771408E+22	3,771559E+22	9,701364E+21	9,701299E+21	7,542967E+22	1,940266E+22	9,483234E+22
-567	3,771604E+22	3,771493E+22	9,700511E+21	9,701011E+21	7,543096E+22	1,940152E+22	9,483249E+22
-566	3,771453E+22	3,771543E+22	9,701133E+21	9,700192E+21	7,542997E+22	1,940132E+22	9,483129E+22
-565	3,771603E+22	3,771605E+22	9,700477E+21	9,700806E+21	7,543207E+22	1,940128E+22	9,483336E+22
-564	3,771629E+22	3,771532E+22	9,700401E+21	9,700484E+21	7,543162E+22	1,940089E+22	9,483250E+22
-563	3,771439E+22	3,771617E+22	9,701094E+21	9,700485E+21	7,543056E+22	1,940158E+22	9,483214E+22
-562	3,771606E+22	3,771551E+22	9,700410E+21	9,701420E+21	7,543157E+22	1,940183E+22	9,483340E+22
-561	3,771480E+22	3,771429E+22	9,701259E+21	9,700996E+21	7,542909E+22	1,940225E+22	9,483135E+22
-560	3,771388E+22	3,771495E+22	9,701900E+21	9,701554E+21	7,542883E+22	1,940345E+22	9,483229E+22
-559	3,771516E+22	3,771364E+22	9,701554E+21	9,702272E+21	7,542880E+22	1,940383E+22	9,483263E+22
-558	3,771269E+22	3,771302E+22	9,702762E+21	9,702080E+21	7,542571E+22	1,940484E+22	9,483055E+22
-557	3,771251E+22	3,771340E+22	9,702778E+21	9,703066E+21	7,542590E+22	1,940584E+22	9,483175E+22
-556	3,771281E+22	3,771190E+22	9,702733E+21	9,703209E+21	7,542471E+22	1,940594E+22	9,483065E+22
-555	3,771071E+22	3,771211E+22	9,703625E+21	9,702832E+21	7,542282E+22	1,940646E+22	9,482928E+22
-554	3,771242E+22	3,771191E+22	9,702875E+21	9,703525E+21	7,542434E+22	1,940640E+22	9,483074E+22
-553	3,771211E+22	3,771102E+22	9,703123E+21	9,702855E+21	7,542313E+22	1,940598E+22	9,482911E+22
-552	3,771109E+22	3,771273E+22	9,703326E+21	9,702681E+21	7,542383E+22	1,940601E+22	9,482983E+22
-551	3,771326E+22	3,771263E+22	9,702178E+21	9,703024E+21	7,542589E+22	1,940520E+22	9,483109E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-550	3,771230E+22	3,771242E+22	9,702505E+21	9,701976E+21	7,542472E+22	1,940448E+22	9,482920E+22
-549	3,771287E+22	3,771393E+22	9,702147E+21	9,701988E+21	7,542679E+22	1,940414E+22	9,483093E+22
-548	3,771471E+22	3,771347E+22	9,701359E+21	9,701777E+21	7,542818E+22	1,940314E+22	9,483131E+22
-547	3,771322E+22	3,771409E+22	9,701949E+21	9,701025E+21	7,542731E+22	1,940297E+22	9,483028E+22
-546	3,771441E+22	3,771486E+22	9,701288E+21	9,701761E+21	7,542927E+22	1,940305E+22	9,483232E+22
-545	3,771441E+22	3,771367E+22	9,701356E+21	9,701547E+21	7,542808E+22	1,940290E+22	9,483098E+22
-544	3,771276E+22	3,771450E+22	9,702113E+21	9,701478E+21	7,542726E+22	1,940359E+22	9,483085E+22
-543	3,771446E+22	3,771388E+22	9,701507E+21	9,702390E+21	7,542833E+22	1,940390E+22	9,483223E+22
-542	3,771346E+22	3,771222E+22	9,702309E+21	9,702057E+21	7,542568E+22	1,940437E+22	9,483005E+22
-541	3,771233E+22	3,771315E+22	9,702964E+21	9,702585E+21	7,542548E+22	1,940555E+22	9,483103E+22
-540	3,771319E+22	3,771216E+22	9,702632E+21	9,703453E+21	7,542535E+22	1,940608E+22	9,483143E+22
-539	3,771079E+22	3,771136E+22	9,703774E+21	9,703192E+21	7,542214E+22	1,940697E+22	9,482911E+22
-538	3,771069E+22	3,771172E+22	9,703756E+21	9,704048E+21	7,542241E+22	1,940780E+22	9,483021E+22
-537	3,771108E+22	3,770984E+22	9,703781E+21	9,704126E+21	7,542092E+22	1,940791E+22	9,482883E+22
-536	3,770924E+22	3,771036E+22	9,704638E+21	9,703665E+21	7,541960E+22	1,940830E+22	9,482790E+22
-535	3,771080E+22	3,771062E+22	9,703842E+21	9,704413E+21	7,542142E+22	1,940826E+22	9,482967E+22
-534	3,771059E+22	3,770946E+22	9,703914E+21	9,703849E+21	7,542005E+22	1,940776E+22	9,482782E+22
-533	3,770964E+22	3,771130E+22	9,704076E+21	9,703521E+21	7,542094E+22	1,940760E+22	9,482853E+22
-532	3,771180E+22	3,771135E+22	9,702958E+21	9,703821E+21	7,542315E+22	1,940678E+22	9,482993E+22
-531	3,771119E+22	3,771103E+22	9,703249E+21	9,702674E+21	7,542222E+22	1,940592E+22	9,482814E+22
-530	3,771172E+22	3,771265E+22	9,702924E+21	9,702683E+21	7,542436E+22	1,940561E+22	9,482997E+22
-529	3,771311E+22	3,771197E+22	9,702272E+21	9,702664E+21	7,542508E+22	1,940494E+22	9,483002E+22
-528	3,771154E+22	3,771274E+22	9,702869E+21	9,702012E+21	7,542428E+22	1,940488E+22	9,482916E+22
-527	3,771259E+22	3,771341E+22	9,702265E+21	9,702792E+21	7,542600E+22	1,940506E+22	9,483106E+22
-526	3,771292E+22	3,771160E+22	9,702276E+21	9,702608E+21	7,542453E+22	1,940488E+22	9,482941E+22
-525	3,771152E+22	3,771252E+22	9,703065E+21	9,702373E+21	7,542404E+22	1,940544E+22	9,482948E+22
-524	3,771297E+22	3,771225E+22	9,702563E+21	9,703350E+21	7,542522E+22	1,940591E+22	9,483114E+22
-523	3,771191E+22	3,771078E+22	9,703332E+21	9,703090E+21	7,542269E+22	1,940642E+22	9,482911E+22
-522	3,771043E+22	3,771180E+22	9,703982E+21	9,703641E+21	7,542223E+22	1,940762E+22	9,482985E+22
-521	3,771092E+22	3,771037E+22	9,703790E+21	9,704576E+21	7,542128E+22	1,940837E+22	9,482965E+22
-520	3,770882E+22	3,770957E+22	9,704906E+21	9,704219E+21	7,541839E+22	1,940913E+22	9,482752E+22
-519	3,770886E+22	3,770990E+22	9,704880E+21	9,705017E+21	7,541875E+22	1,940990E+22	9,482865E+22
-518	3,770961E+22	3,770769E+22	9,704759E+21	9,705171E+21	7,541730E+22	1,940993E+22	9,482723E+22
-517	3,770784E+22	3,770862E+22	9,705495E+21	9,704633E+21	7,541646E+22	1,941013E+22	9,482658E+22
-516	3,770915E+22	3,770932E+22	9,704670E+21	9,705426E+21	7,541847E+22	1,941010E+22	9,482857E+22
-515	3,770924E+22	3,770815E+22	9,704636E+21	9,704723E+21	7,541739E+22	1,940936E+22	9,482675E+22
-514	3,770842E+22	3,771003E+22	9,704795E+21	9,704189E+21	7,541844E+22	1,940898E+22	9,482743E+22
-513	3,771044E+22	3,770985E+22	9,703840E+21	9,704476E+21	7,542029E+22	1,940832E+22	9,482861E+22
-512	3,770986E+22	3,770976E+22	9,704153E+21	9,703364E+21	7,541962E+22	1,940752E+22	9,482714E+22
-511	3,771003E+22	3,771153E+22	9,703863E+21	9,703540E+21	7,542155E+22	1,940740E+22	9,482896E+22
-510	3,771145E+22	3,771031E+22	9,703110E+21	9,703722E+21	7,542176E+22	1,940683E+22	9,482859E+22
-509	3,771002E+22	3,771101E+22	9,703691E+21	9,702979E+21	7,542104E+22	1,940667E+22	9,482771E+22
-508	3,771114E+22	3,771181E+22	9,703168E+21	9,703747E+21	7,542295E+22	1,940692E+22	9,482986E+22
-507	3,771182E+22	3,770990E+22	9,703159E+21	9,703490E+21	7,542172E+22	1,940665E+22	9,482837E+22
-506	3,771022E+22	3,771106E+22	9,704023E+21	9,703244E+21	7,542128E+22	1,940727E+22	9,482854E+22
-505	3,771106E+22	3,771071E+22	9,703698E+21	9,704420E+21	7,542178E+22	1,940812E+22	9,482989E+22
-504	3,770974E+22	3,770932E+22	9,704491E+21	9,704246E+21	7,541907E+22	1,940874E+22	9,482780E+22
-503	3,770815E+22	3,771014E+22	9,705183E+21	9,704807E+21	7,541829E+22	1,940999E+22	9,482828E+22
-502	3,770903E+22	3,770799E+22	9,704875E+21	9,705671E+21	7,541703E+22	1,941055E+22	9,482757E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-501	3,770733E+22	3,770729E+22	9,705906E+21	9,705196E+21	7,541462E+22	1,941110E+22	9,482572E+22
-500	3,770734E+22	3,770809E+22	9,705857E+21	9,706007E+21	7,541543E+22	1,941186E+22	9,482730E+22
-499	3,770821E+22	3,770622E+22	9,705578E+21	9,706149E+21	7,541443E+22	1,941173E+22	9,482616E+22
-498	3,770637E+22	3,770747E+22	9,706254E+21	9,705509E+21	7,541384E+22	1,941176E+22	9,482561E+22
-497	3,770747E+22	3,770797E+22	9,705583E+21	9,706265E+21	7,541543E+22	1,941185E+22	9,482728E+22
-496	3,770777E+22	3,770695E+22	9,705549E+21	9,705432E+21	7,541472E+22	1,941098E+22	9,482570E+22
-495	3,770698E+22	3,770873E+22	9,705756E+21	9,704885E+21	7,541571E+22	1,941064E+22	9,482635E+22
-494	3,770902E+22	3,770811E+22	9,704720E+21	9,705333E+21	7,541714E+22	1,941005E+22	9,482719E+22
-493	3,770841E+22	3,770821E+22	9,704954E+21	9,704293E+21	7,541661E+22	1,940925E+22	9,482586E+22
-492	3,770831E+22	3,771009E+22	9,704685E+21	9,704573E+21	7,541840E+22	1,940926E+22	9,482766E+22
-491	3,771008E+22	3,770873E+22	9,703862E+21	9,704696E+21	7,541881E+22	1,940856E+22	9,482737E+22
-490	3,770889E+22	3,770945E+22	9,704447E+21	9,703770E+21	7,541834E+22	1,940822E+22	9,482656E+22
-489	3,770972E+22	3,771012E+22	9,704170E+21	9,704567E+21	7,541985E+22	1,940874E+22	9,482858E+22
-488	3,771026E+22	3,770863E+22	9,704222E+21	9,704373E+21	7,541889E+22	1,940860E+22	9,482749E+22
-487	3,770823E+22	3,770980E+22	9,705182E+21	9,704301E+21	7,541803E+22	1,940948E+22	9,482751E+22
-486	3,770890E+22	3,770884E+22	9,704815E+21	9,705644E+21	7,541774E+22	1,941046E+22	9,482820E+22
-485	3,770779E+22	3,770728E+22	9,705572E+21	9,705400E+21	7,541507E+22	1,941097E+22	9,482604E+22
-484	3,770629E+22	3,770810E+22	9,706268E+21	9,705916E+21	7,541439E+22	1,941218E+22	9,482657E+22
-483	3,770767E+22	3,770592E+22	9,705834E+21	9,706754E+21	7,541358E+22	1,941259E+22	9,482617E+22
-482	3,770603E+22	3,770558E+22	9,706785E+21	9,706123E+21	7,541162E+22	1,941291E+22	9,482453E+22
-481	3,770562E+22	3,770659E+22	9,706855E+21	9,707028E+21	7,541221E+22	1,941388E+22	9,482609E+22
-480	3,770643E+22	3,770509E+22	9,706546E+21	9,707104E+21	7,541152E+22	1,941365E+22	9,482517E+22
-479	3,770463E+22	3,770624E+22	9,707263E+21	9,706391E+21	7,541086E+22	1,941365E+22	9,482452E+22
-478	3,770596E+22	3,770616E+22	9,706515E+21	9,707091E+21	7,541212E+22	1,941361E+22	9,482572E+22
-477	3,770647E+22	3,770524E+22	9,706416E+21	9,706164E+21	7,541170E+22	1,941258E+22	9,482428E+22
-476	3,770549E+22	3,770732E+22	9,706606E+21	9,705729E+21	7,541281E+22	1,941233E+22	9,482515E+22
-475	3,770760E+22	3,770672E+22	9,705412E+21	9,706246E+21	7,541433E+22	1,941166E+22	9,482598E+22
-474	3,770699E+22	3,770691E+22	9,705596E+21	9,705150E+21	7,541390E+22	1,941075E+22	9,482464E+22
-473	3,770680E+22	3,770858E+22	9,705521E+21	9,705447E+21	7,541538E+22	1,941097E+22	9,482635E+22
-472	3,770873E+22	3,770740E+22	9,704761E+21	9,705469E+21	7,541613E+22	1,941023E+22	9,482636E+22
-471	3,770756E+22	3,770809E+22	9,705477E+21	9,704598E+21	7,541565E+22	1,941007E+22	9,482572E+22
-470	3,770816E+22	3,770835E+22	9,705217E+21	9,705565E+21	7,541652E+22	1,941078E+22	9,482730E+22
-469	3,770846E+22	3,770699E+22	9,705260E+21	9,705490E+21	7,541544E+22	1,941075E+22	9,482619E+22
-468	3,770612E+22	3,770809E+22	9,706271E+21	9,705521E+21	7,541422E+22	1,941179E+22	9,482601E+22
-467	3,770710E+22	3,770682E+22	9,705811E+21	9,706787E+21	7,541392E+22	1,941260E+22	9,482651E+22
-466	3,770630E+22	3,770527E+22	9,706524E+21	9,706362E+21	7,541157E+22	1,941289E+22	9,482446E+22
-465	3,770467E+22	3,770607E+22	9,707375E+21	9,706893E+21	7,541074E+22	1,941427E+22	9,482501E+22
-464	3,770597E+22	3,770450E+22	9,706920E+21	9,707724E+21	7,541047E+22	1,941464E+22	9,482511E+22
-463	3,770419E+22	3,770436E+22	9,707866E+21	9,707176E+21	7,540855E+22	1,941504E+22	9,482359E+22
-462	3,770370E+22	3,770492E+22	9,707878E+21	9,708105E+21	7,540862E+22	1,941598E+22	9,482460E+22
-461	3,770479E+22	3,770348E+22	9,707505E+21	9,708040E+21	7,540827E+22	1,941555E+22	9,482382E+22
-460	3,770307E+22	3,770461E+22	9,708205E+21	9,707245E+21	7,540767E+22	1,941545E+22	9,482312E+22
-459	3,770469E+22	3,770448E+22	9,707318E+21	9,707887E+21	7,540917E+22	1,941521E+22	9,482438E+22
-458	3,770523E+22	3,770380E+22	9,707104E+21	9,706940E+21	7,540903E+22	1,941404E+22	9,482307E+22
-457	3,770381E+22	3,770589E+22	9,707405E+21	9,706657E+21	7,540970E+22	1,941406E+22	9,482376E+22
-456	3,770597E+22	3,770558E+22	9,706209E+21	9,707123E+21	7,541155E+22	1,941333E+22	9,482488E+22
-455	3,770562E+22	3,770557E+22	9,706455E+21	9,705981E+21	7,541120E+22	1,941244E+22	9,482363E+22
-454	3,770557E+22	3,770676E+22	9,706407E+21	9,706250E+21	7,541233E+22	1,941266E+22	9,482498E+22
-453	3,770756E+22	3,770580E+22	9,705683E+21	9,706255E+21	7,541336E+22	1,941194E+22	9,482530E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-452	3,770595E+22	3,770670E+22	9,706479E+21	9,705561E+21	7,541265E+22	1,941204E+22	9,482469E+22
-451	3,770640E+22	3,770687E+22	9,706150E+21	9,706633E+21	7,541327E+22	1,941278E+22	9,482606E+22
-450	3,770665E+22	3,770540E+22	9,706181E+21	9,706538E+21	7,541205E+22	1,941272E+22	9,482477E+22
-449	3,770419E+22	3,770618E+22	9,707376E+21	9,706613E+21	7,541037E+22	1,941399E+22	9,482436E+22
-448	3,770534E+22	3,770508E+22	9,706928E+21	9,707766E+21	7,541042E+22	1,941469E+22	9,482512E+22
-447	3,770471E+22	3,770352E+22	9,707683E+21	9,707399E+21	7,540822E+22	1,941508E+22	9,482331E+22
-446	3,770294E+22	3,770410E+22	9,708474E+21	9,708046E+21	7,540704E+22	1,941652E+22	9,482356E+22
-445	3,770413E+22	3,770284E+22	9,707967E+21	9,708885E+21	7,540696E+22	1,941685E+22	9,482381E+22
-444	3,770228E+22	3,770279E+22	9,708905E+21	9,708315E+21	7,540507E+22	1,941722E+22	9,482229E+22
-443	3,770219E+22	3,770311E+22	9,708767E+21	9,709046E+21	7,540529E+22	1,941781E+22	9,482311E+22
-442	3,770350E+22	3,770179E+22	9,708302E+21	9,708759E+21	7,540529E+22	1,941706E+22	9,482235E+22
-441	3,770160E+22	3,770298E+22	9,709097E+21	9,708017E+21	7,540458E+22	1,941711E+22	9,482170E+22
-440	3,770305E+22	3,770334E+22	9,708161E+21	9,708649E+21	7,540639E+22	1,941681E+22	9,482320E+22
-439	3,770359E+22	3,770271E+22	9,707946E+21	9,707831E+21	7,540630E+22	1,941578E+22	9,482207E+22
-438	3,770225E+22	3,770424E+22	9,708214E+21	9,707581E+21	7,540650E+22	1,941579E+22	9,482229E+22
-437	3,770470E+22	3,770402E+22	9,707035E+21	9,707940E+21	7,540872E+22	1,941497E+22	9,482369E+22
-436	3,770444E+22	3,770407E+22	9,707329E+21	9,706780E+21	7,540851E+22	1,941411E+22	9,482262E+22
-435	3,770449E+22	3,770517E+22	9,707231E+21	9,707051E+21	7,540967E+22	1,941428E+22	9,482395E+22
-434	3,770620E+22	3,770450E+22	9,706501E+21	9,707117E+21	7,541069E+22	1,941362E+22	9,482431E+22
-433	3,770400E+22	3,770525E+22	9,707492E+21	9,706661E+21	7,540925E+22	1,941415E+22	9,482340E+22
-432	3,770430E+22	3,770548E+22	9,707222E+21	9,707690E+21	7,540978E+22	1,941491E+22	9,482469E+22
-431	3,770485E+22	3,770366E+22	9,707317E+21	9,707620E+21	7,540851E+22	1,941494E+22	9,482344E+22
-430	3,770250E+22	3,770386E+22	9,708497E+21	9,707689E+21	7,540636E+22	1,941619E+22	9,482254E+22
-429	3,770381E+22	3,770307E+22	9,708035E+21	9,708828E+21	7,540688E+22	1,941686E+22	9,482374E+22
-428	3,770294E+22	3,770180E+22	9,708763E+21	9,708545E+21	7,540474E+22	1,941731E+22	9,482205E+22
-427	3,770119E+22	3,770242E+22	9,709416E+21	9,709182E+21	7,540361E+22	1,941860E+22	9,482221E+22
-426	3,770248E+22	3,770130E+22	9,708853E+21	9,709856E+21	7,540379E+22	1,941871E+22	9,482250E+22
-425	3,770052E+22	3,770110E+22	9,709921E+21	9,709251E+21	7,540162E+22	1,941917E+22	9,482080E+22
-424	3,770055E+22	3,770171E+22	9,709762E+21	9,709787E+21	7,540226E+22	1,941955E+22	9,482181E+22
-423	3,770204E+22	3,770036E+22	9,709284E+21	9,709576E+21	7,540240E+22	1,941886E+22	9,482126E+22
-422	3,769994E+22	3,770124E+22	9,709982E+21	9,708966E+21	7,540118E+22	1,941895E+22	9,482012E+22
-421	3,770142E+22	3,770185E+22	9,708983E+21	9,709612E+21	7,540327E+22	1,941860E+22	9,482186E+22
-420	3,770205E+22	3,770123E+22	9,708758E+21	9,708771E+21	7,540328E+22	1,941753E+22	9,482081E+22
-419	3,770120E+22	3,770259E+22	9,708913E+21	9,708378E+21	7,540379E+22	1,941729E+22	9,482108E+22
-418	3,770379E+22	3,770258E+22	9,707734E+21	9,708563E+21	7,540637E+22	1,941630E+22	9,482267E+22
-417	3,770314E+22	3,770275E+22	9,708214E+21	9,707566E+21	7,540590E+22	1,941578E+22	9,482168E+22
-416	3,770276E+22	3,770423E+22	9,708164E+21	9,707870E+21	7,540700E+22	1,941603E+22	9,482303E+22
-415	3,770431E+22	3,770335E+22	9,707519E+21	9,708147E+21	7,540766E+22	1,941567E+22	9,482332E+22
-414	3,770205E+22	3,770333E+22	9,708544E+21	9,707793E+21	7,540538E+22	1,941634E+22	9,482172E+22
-413	3,770257E+22	3,770345E+22	9,708304E+21	9,708750E+21	7,540602E+22	1,941705E+22	9,482307E+22
-412	3,770325E+22	3,770163E+22	9,708423E+21	9,708702E+21	7,540488E+22	1,941713E+22	9,482200E+22
-411	3,770117E+22	3,770175E+22	9,709455E+21	9,708771E+21	7,540291E+22	1,941823E+22	9,482114E+22
-410	3,770223E+22	3,770138E+22	9,708953E+21	9,709882E+21	7,540361E+22	1,941883E+22	9,482244E+22
-409	3,770099E+22	3,770025E+22	9,709808E+21	9,709716E+21	7,540123E+22	1,941952E+22	9,482076E+22
-408	3,769923E+22	3,770104E+22	9,710486E+21	9,710142E+21	7,540027E+22	1,942063E+22	9,482090E+22
-407	3,770082E+22	3,769976E+22	9,709966E+21	9,710763E+21	7,540058E+22	1,942073E+22	9,482131E+22
-406	3,769886E+22	3,769909E+22	9,710987E+21	9,710144E+21	7,539795E+22	1,942113E+22	9,481909E+22
-405	3,769889E+22	3,769999E+22	9,710766E+21	9,710669E+21	7,539889E+22	1,942143E+22	9,482032E+22
-404	3,770023E+22	3,769889E+22	9,710205E+21	9,710569E+21	7,539913E+22	1,942077E+22	9,481990E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-403	3,769843E+22	3,769962E+22	9,710687E+21	9,709948E+21	7,539805E+22	1,942063E+22	9,481868E+22
-402	3,770018E+22	3,770040E+22	9,709642E+21	9,710409E+21	7,540058E+22	1,942005E+22	9,482064E+22
-401	3,770083E+22	3,769983E+22	9,709540E+21	9,709553E+21	7,540065E+22	1,941909E+22	9,481975E+22
-400	3,770003E+22	3,770150E+22	9,709742E+21	9,708994E+21	7,540152E+22	1,941874E+22	9,482026E+22
-399	3,770257E+22	3,770152E+22	9,708655E+21	9,709330E+21	7,540409E+22	1,941798E+22	9,482207E+22
-398	3,770139E+22	3,770125E+22	9,709161E+21	9,708562E+21	7,540263E+22	1,941772E+22	9,482036E+22
-397	3,770086E+22	3,770273E+22	9,709157E+21	9,708936E+21	7,540358E+22	1,941809E+22	9,482167E+22
-396	3,770245E+22	3,770154E+22	9,708553E+21	9,709237E+21	7,540399E+22	1,941779E+22	9,482178E+22
-395	3,770065E+22	3,770111E+22	9,709447E+21	9,708808E+21	7,540176E+22	1,941826E+22	9,482002E+22
-394	3,770135E+22	3,770147E+22	9,709191E+21	9,709629E+21	7,540282E+22	1,941882E+22	9,482164E+22
-393	3,770166E+22	3,769991E+22	9,709441E+21	9,709739E+21	7,540157E+22	1,941918E+22	9,482075E+22
-392	3,769929E+22	3,770053E+22	9,710488E+21	9,709770E+21	7,539982E+22	1,942026E+22	9,482008E+22
-391	3,770035E+22	3,770009E+22	9,710078E+21	9,710974E+21	7,540044E+22	1,942105E+22	9,482149E+22
-390	3,769896E+22	3,769840E+22	9,710965E+21	9,710825E+21	7,539736E+22	1,942179E+22	9,481915E+22
-389	3,769741E+22	3,769921E+22	9,711637E+21	9,711118E+21	7,539662E+22	1,942275E+22	9,481938E+22
-388	3,769908E+22	3,769790E+22	9,711089E+21	9,711735E+21	7,539697E+22	1,942282E+22	9,481980E+22
-387	3,769738E+22	3,769712E+22	9,711869E+21	9,711159E+21	7,539449E+22	1,942303E+22	9,481752E+22
-386	3,769732E+22	3,769838E+22	9,711517E+21	9,711625E+21	7,539570E+22	1,942314E+22	9,481884E+22
-385	3,769853E+22	3,769744E+22	9,711008E+21	9,711602E+21	7,539596E+22	1,942261E+22	9,481857E+22
-384	3,769703E+22	3,769839E+22	9,711453E+21	9,710718E+21	7,539542E+22	1,942217E+22	9,481759E+22
-383	3,769914E+22	3,769916E+22	9,710485E+21	9,711102E+21	7,539829E+22	1,942159E+22	9,481988E+22
-382	3,769964E+22	3,769830E+22	9,710409E+21	9,710270E+21	7,539794E+22	1,942068E+22	9,481862E+22
-381	3,769863E+22	3,770020E+22	9,710653E+21	9,709748E+21	7,539883E+22	1,942040E+22	9,481923E+22
-380	3,770074E+22	3,770029E+22	9,709609E+21	9,710255E+21	7,540103E+22	1,941986E+22	9,482090E+22
-379	3,769974E+22	3,769956E+22	9,709976E+21	9,709596E+21	7,539930E+22	1,941957E+22	9,481887E+22
-378	3,769929E+22	3,770093E+22	9,709988E+21	9,709852E+21	7,540022E+22	1,941984E+22	9,482006E+22
-377	3,770089E+22	3,769974E+22	9,709515E+21	9,710226E+21	7,540063E+22	1,941974E+22	9,482037E+22
-376	3,769925E+22	3,769952E+22	9,710418E+21	9,709668E+21	7,539877E+22	1,942009E+22	9,481886E+22
-375	3,769990E+22	3,770001E+22	9,710261E+21	9,710641E+21	7,539991E+22	1,942090E+22	9,482081E+22
-374	3,769967E+22	3,769823E+22	9,710546E+21	9,710932E+21	7,539790E+22	1,942148E+22	9,481938E+22
-373	3,769721E+22	3,769889E+22	9,711659E+21	9,710949E+21	7,539610E+22	1,942261E+22	9,481871E+22
-372	3,769830E+22	3,769829E+22	9,711308E+21	9,712102E+21	7,539659E+22	1,942341E+22	9,482000E+22
-371	3,769736E+22	3,769621E+22	9,712007E+21	9,711879E+21	7,539356E+22	1,942389E+22	9,481745E+22
-370	3,769591E+22	3,769724E+22	9,712588E+21	9,712022E+21	7,539314E+22	1,942461E+22	9,481775E+22
-369	3,769729E+22	3,769623E+22	9,712043E+21	9,712766E+21	7,539352E+22	1,942481E+22	9,481832E+22
-368	3,769559E+22	3,769585E+22	9,712708E+21	9,712085E+21	7,539144E+22	1,942479E+22	9,481623E+22
-367	3,769585E+22	3,769711E+22	9,712382E+21	9,712553E+21	7,539296E+22	1,942493E+22	9,481789E+22
-366	3,769701E+22	3,769584E+22	9,711885E+21	9,712465E+21	7,539286E+22	1,942435E+22	9,481721E+22
-365	3,769583E+22	3,769699E+22	9,712347E+21	9,711433E+21	7,539281E+22	1,942378E+22	9,481659E+22
-364	3,769790E+22	3,769777E+22	9,711427E+21	9,711812E+21	7,539567E+22	1,942324E+22	9,481891E+22
-363	3,769833E+22	3,769678E+22	9,711179E+21	9,711118E+21	7,539511E+22	1,942230E+22	9,481741E+22
-362	3,769704E+22	3,769885E+22	9,711384E+21	9,710625E+21	7,539589E+22	1,942201E+22	9,481790E+22
-361	3,769886E+22	3,769883E+22	9,710464E+21	9,711269E+21	7,539770E+22	1,942173E+22	9,481943E+22
-360	3,769816E+22	3,769807E+22	9,710842E+21	9,710454E+21	7,539623E+22	1,942130E+22	9,481752E+22
-359	3,769808E+22	3,769929E+22	9,710955E+21	9,710715E+21	7,539737E+22	1,942167E+22	9,481904E+22
-358	3,769937E+22	3,769788E+22	9,710548E+21	9,711191E+21	7,539725E+22	1,942174E+22	9,481899E+22
-357	3,769757E+22	3,769800E+22	9,711483E+21	9,710701E+21	7,539557E+22	1,942218E+22	9,481775E+22
-356	3,769788E+22	3,769853E+22	9,711407E+21	9,711789E+21	7,539641E+22	1,942320E+22	9,481960E+22
-355	3,769781E+22	3,769638E+22	9,711576E+21	9,712139E+21	7,539419E+22	1,942372E+22	9,481790E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-354	3,769548E+22	3,769698E+22	9,712690E+21	9,711988E+21	7,539246E+22	1,942468E+22	9,481713E+22
-353	3,769649E+22	3,769640E+22	9,712423E+21	9,713155E+21	7,539289E+22	1,942558E+22	9,481847E+22
-352	3,769574E+22	3,769451E+22	9,713043E+21	9,712806E+21	7,539025E+22	1,942585E+22	9,481610E+22
-351	3,769430E+22	3,769566E+22	9,713600E+21	9,713045E+21	7,538996E+22	1,942664E+22	9,481660E+22
-350	3,769531E+22	3,769455E+22	9,713015E+21	9,713880E+21	7,538986E+22	1,942689E+22	9,481675E+22
-349	3,769390E+22	3,769425E+22	9,713642E+21	9,713062E+21	7,538816E+22	1,942670E+22	9,481486E+22
-348	3,769437E+22	3,769552E+22	9,713361E+21	9,713393E+21	7,538989E+22	1,942675E+22	9,481664E+22
-347	3,769595E+22	3,769413E+22	9,712672E+21	9,713220E+21	7,539008E+22	1,942589E+22	9,481597E+22
-346	3,769470E+22	3,769552E+22	9,713099E+21	9,712086E+21	7,539022E+22	1,942519E+22	9,481541E+22
-345	3,769624E+22	3,769664E+22	9,712251E+21	9,712637E+21	7,539288E+22	1,942489E+22	9,481777E+22
-344	3,769660E+22	3,769575E+22	9,711954E+21	9,711940E+21	7,539235E+22	1,942389E+22	9,481625E+22
-343	3,769549E+22	3,769754E+22	9,712244E+21	9,711538E+21	7,539303E+22	1,942378E+22	9,481681E+22
-342	3,769716E+22	3,769710E+22	9,711398E+21	9,712219E+21	7,539426E+22	1,942362E+22	9,481788E+22
-341	3,769678E+22	3,769634E+22	9,711817E+21	9,711349E+21	7,539313E+22	1,942317E+22	9,481629E+22
-340	3,769668E+22	3,769758E+22	9,712028E+21	9,711678E+21	7,539425E+22	1,942371E+22	9,481796E+22
-339	3,769786E+22	3,769610E+22	9,711476E+21	9,712314E+21	7,539396E+22	1,942379E+22	9,481775E+22
-338	3,769584E+22	3,769636E+22	9,712423E+21	9,711822E+21	7,539221E+22	1,942424E+22	9,481645E+22
-337	3,769588E+22	3,769687E+22	9,712490E+21	9,712952E+21	7,539275E+22	1,942544E+22	9,481819E+22
-336	3,769607E+22	3,769470E+22	9,712654E+21	9,713113E+21	7,539077E+22	1,942577E+22	9,481654E+22
-335	3,769402E+22	3,769519E+22	9,713815E+21	9,712951E+21	7,538921E+22	1,942677E+22	9,481598E+22
-334	3,769456E+22	3,769445E+22	9,713566E+21	9,714178E+21	7,538902E+22	1,942774E+22	9,481676E+22
-333	3,769379E+22	3,769288E+22	9,714124E+21	9,713866E+21	7,538667E+22	1,942799E+22	9,481466E+22
-332	3,769235E+22	3,769402E+22	9,714662E+21	9,714127E+21	7,538637E+22	1,942879E+22	9,481516E+22
-331	3,769367E+22	3,769268E+22	9,713887E+21	9,714923E+21	7,538635E+22	1,942881E+22	9,481516E+22
-330	3,769262E+22	3,769260E+22	9,714439E+21	9,713879E+21	7,538522E+22	1,942832E+22	9,481354E+22
-329	3,769307E+22	3,769406E+22	9,714220E+21	9,714162E+21	7,538713E+22	1,942838E+22	9,481551E+22
-328	3,769471E+22	3,769298E+22	9,713470E+21	9,713892E+21	7,538768E+22	1,942736E+22	9,481505E+22
-327	3,769333E+22	3,769444E+22	9,713904E+21	9,712918E+21	7,538777E+22	1,942682E+22	9,481459E+22
-326	3,769424E+22	3,769527E+22	9,713114E+21	9,713600E+21	7,538951E+22	1,942671E+22	9,481622E+22
-325	3,769489E+22	3,769425E+22	9,712851E+21	9,712874E+21	7,538914E+22	1,942572E+22	9,481486E+22
-324	3,769407E+22	3,769576E+22	9,713216E+21	9,712425E+21	7,538983E+22	1,942564E+22	9,481547E+22
-323	3,769604E+22	3,769512E+22	9,712240E+21	9,713121E+21	7,539116E+22	1,942536E+22	9,481653E+22
-322	3,769563E+22	3,769465E+22	9,712636E+21	9,712218E+21	7,539028E+22	1,942485E+22	9,481513E+22
-321	3,769499E+22	3,769622E+22	9,712958E+21	9,712706E+21	7,539122E+22	1,942566E+22	9,481688E+22
-320	3,769611E+22	3,769487E+22	9,712428E+21	9,713311E+21	7,539098E+22	1,942574E+22	9,481671E+22
-319	3,769417E+22	3,769487E+22	9,713507E+21	9,712873E+21	7,538904E+22	1,942638E+22	9,481542E+22
-318	3,769384E+22	3,769504E+22	9,713695E+21	9,714001E+21	7,538888E+22	1,942770E+22	9,481658E+22
-317	3,769430E+22	3,769279E+22	9,713876E+21	9,714126E+21	7,538709E+22	1,942800E+22	9,481509E+22
-316	3,769217E+22	3,769321E+22	9,715051E+21	9,714043E+21	7,538537E+22	1,942909E+22	9,481447E+22
-315	3,769266E+22	3,769244E+22	9,714552E+21	9,715398E+21	7,538509E+22	1,942995E+22	9,481504E+22
-314	3,769197E+22	3,769100E+22	9,715012E+21	9,715002E+21	7,538296E+22	1,943001E+22	9,481298E+22
-313	3,769060E+22	3,769231E+22	9,715590E+21	9,715187E+21	7,538292E+22	1,943078E+22	9,481369E+22
-312	3,769239E+22	3,769119E+22	9,714750E+21	9,715701E+21	7,538358E+22	1,943045E+22	9,481403E+22
-311	3,769160E+22	3,769123E+22	9,715307E+21	9,714602E+21	7,538283E+22	1,942991E+22	9,481274E+22
-310	3,769143E+22	3,769273E+22	9,715132E+21	9,714928E+21	7,538416E+22	1,943006E+22	9,481422E+22
-309	3,769295E+22	3,769186E+22	9,714353E+21	9,714720E+21	7,538481E+22	1,942907E+22	9,481388E+22
-308	3,769155E+22	3,769307E+22	9,714831E+21	9,713841E+21	7,538462E+22	1,942867E+22	9,481329E+22
-307	3,769269E+22	3,769349E+22	9,713896E+21	9,714543E+21	7,538618E+22	1,942844E+22	9,481462E+22
-306	3,769372E+22	3,769248E+22	9,713610E+21	9,713703E+21	7,538619E+22	1,942731E+22	9,481351E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-305	3,769292E+22	3,769413E+22	9,714053E+21	9,713279E+21	7,538705E+22	1,942733E+22	9,481438E+22
-304	3,769488E+22	3,769379E+22	9,713075E+21	9,713936E+21	7,538867E+22	1,942701E+22	9,481568E+22
-303	3,769430E+22	3,769347E+22	9,713519E+21	9,713203E+21	7,538777E+22	1,942672E+22	9,481449E+22
-302	3,769292E+22	3,769475E+22	9,714007E+21	9,713769E+21	7,538766E+22	1,942778E+22	9,481544E+22
-301	3,769415E+22	3,769328E+22	9,713591E+21	9,714343E+21	7,538743E+22	1,942793E+22	9,481537E+22
-300	3,769240E+22	3,769293E+22	9,714763E+21	9,713913E+21	7,538533E+22	1,942868E+22	9,481400E+22
-299	3,769207E+22	3,769279E+22	9,714803E+21	9,715086E+21	7,538486E+22	1,942989E+22	9,481475E+22
-298	3,769254E+22	3,769077E+22	9,714898E+21	9,715230E+21	7,538331E+22	1,943013E+22	9,481344E+22
-297	3,769016E+22	3,769143E+22	9,716040E+21	9,715242E+21	7,538159E+22	1,943128E+22	9,481287E+22
-296	3,769088E+22	3,769083E+22	9,715470E+21	9,716457E+21	7,538171E+22	1,943193E+22	9,481364E+22
-295	3,769058E+22	3,768946E+22	9,715924E+21	9,715977E+21	7,538004E+22	1,943190E+22	9,481195E+22
-294	3,768897E+22	3,769070E+22	9,716586E+21	9,716044E+21	7,537968E+22	1,943263E+22	9,481231E+22
-293	3,769101E+22	3,768979E+22	9,715774E+21	9,716463E+21	7,538080E+22	1,943224E+22	9,481304E+22
-292	3,769008E+22	3,768984E+22	9,716332E+21	9,715455E+21	7,537993E+22	1,943179E+22	9,481171E+22
-291	3,768965E+22	3,769118E+22	9,715950E+21	9,715902E+21	7,538083E+22	1,943185E+22	9,481268E+22
-290	3,769129E+22	3,769024E+22	9,715107E+21	9,715659E+21	7,538153E+22	1,943077E+22	9,481230E+22
-289	3,769004E+22	3,769140E+22	9,715616E+21	9,714752E+21	7,538145E+22	1,943037E+22	9,481181E+22
-288	3,769167E+22	3,769193E+22	9,714649E+21	9,715260E+21	7,538360E+22	1,942991E+22	9,481351E+22
-287	3,769286E+22	3,769109E+22	9,714391E+21	9,714437E+21	7,538395E+22	1,942883E+22	9,481277E+22
-286	3,769135E+22	3,769286E+22	9,714958E+21	9,714126E+21	7,538421E+22	1,942908E+22	9,481330E+22
-285	3,769313E+22	3,769267E+22	9,714065E+21	9,714854E+21	7,538580E+22	1,942892E+22	9,481472E+22
-284	3,769238E+22	3,769203E+22	9,714642E+21	9,714256E+21	7,538441E+22	1,942890E+22	9,481331E+22
-283	3,769100E+22	3,769285E+22	9,715054E+21	9,714859E+21	7,538385E+22	1,942991E+22	9,481376E+22
-282	3,769249E+22	3,769121E+22	9,714647E+21	9,715382E+21	7,538370E+22	1,943003E+22	9,481373E+22
-281	3,769071E+22	3,769087E+22	9,715860E+21	9,715028E+21	7,538158E+22	1,943089E+22	9,481247E+22
-280	3,769042E+22	3,769096E+22	9,715804E+21	9,716168E+21	7,538138E+22	1,943197E+22	9,481335E+22
-279	3,769083E+22	3,768913E+22	9,715849E+21	9,716405E+21	7,537997E+22	1,943225E+22	9,481222E+22
-278	3,768809E+22	3,768968E+22	9,717069E+21	9,716385E+21	7,537777E+22	1,943345E+22	9,481122E+22
-277	3,768920E+22	3,768919E+22	9,716568E+21	9,717412E+21	7,537839E+22	1,943398E+22	9,481237E+22
-276	3,768917E+22	3,768781E+22	9,717059E+21	9,716856E+21	7,537698E+22	1,943392E+22	9,481090E+22
-275	3,768750E+22	3,768895E+22	9,717550E+21	9,716899E+21	7,537645E+22	1,943445E+22	9,481090E+22
-274	3,768942E+22	3,768830E+22	9,716656E+21	9,717328E+21	7,537772E+22	1,943398E+22	9,481170E+22
-273	3,768825E+22	3,768847E+22	9,717168E+21	9,716429E+21	7,537671E+22	1,943360E+22	9,481031E+22
-272	3,768804E+22	3,768976E+22	9,716704E+21	9,716755E+21	7,537780E+22	1,943346E+22	9,481126E+22
-271	3,769009E+22	3,768884E+22	9,715840E+21	9,716475E+21	7,537894E+22	1,943231E+22	9,481125E+22
-270	3,768871E+22	3,768983E+22	9,716434E+21	9,715511E+21	7,537854E+22	1,943195E+22	9,481049E+22
-269	3,769049E+22	3,769059E+22	9,715566E+21	9,715986E+21	7,538108E+22	1,943155E+22	9,481263E+22
-268	3,769149E+22	3,768986E+22	9,715349E+21	9,715337E+21	7,538134E+22	1,943069E+22	9,481203E+22
-267	3,768955E+22	3,769134E+22	9,715825E+21	9,715165E+21	7,538089E+22	1,943099E+22	9,481188E+22
-266	3,769135E+22	3,769101E+22	9,715001E+21	9,715889E+21	7,538236E+22	1,943089E+22	9,481325E+22
-265	3,769065E+22	3,769018E+22	9,715663E+21	9,715316E+21	7,538084E+22	1,943098E+22	9,481182E+22
-264	3,768955E+22	3,769093E+22	9,716058E+21	9,715789E+21	7,538049E+22	1,943185E+22	9,481233E+22
-263	3,769109E+22	3,768945E+22	9,715641E+21	9,716375E+21	7,538054E+22	1,943202E+22	9,481256E+22
-262	3,768868E+22	3,768913E+22	9,716918E+21	9,716130E+21	7,537781E+22	1,943305E+22	9,481086E+22
-261	3,768843E+22	3,768939E+22	9,716924E+21	9,717272E+21	7,537782E+22	1,943420E+22	9,481201E+22
-260	3,768895E+22	3,768747E+22	9,717023E+21	9,717542E+21	7,537642E+22	1,943456E+22	9,481098E+22
-259	3,768633E+22	3,768775E+22	9,718122E+21	9,717452E+21	7,537408E+22	1,943557E+22	9,480966E+22
-258	3,768776E+22	3,768732E+22	9,717621E+21	9,718345E+21	7,537508E+22	1,943597E+22	9,481105E+22
-257	3,768761E+22	3,768616E+22	9,718089E+21	9,717818E+21	7,537377E+22	1,943591E+22	9,480968E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-256	3,768591E+22	3,768752E+22	9,718422E+21	9,717817E+21	7,537344E+22	1,943624E+22	9,480967E+22
-255	3,768773E+22	3,768696E+22	9,717439E+21	9,718285E+21	7,537469E+22	1,943572E+22	9,481041E+22
-254	3,768631E+22	3,768690E+22	9,718014E+21	9,717367E+21	7,537321E+22	1,943538E+22	9,480859E+22
-253	3,768663E+22	3,768821E+22	9,717597E+21	9,717521E+21	7,537484E+22	1,943512E+22	9,480996E+22
-252	3,768893E+22	3,768731E+22	9,716767E+21	9,717237E+21	7,537624E+22	1,943400E+22	9,481025E+22
-251	3,768747E+22	3,768826E+22	9,717215E+21	9,716323E+21	7,537573E+22	1,943354E+22	9,480927E+22
-250	3,768912E+22	3,768922E+22	9,716367E+21	9,716842E+21	7,537833E+22	1,943321E+22	9,481154E+22
-249	3,768979E+22	3,768857E+22	9,716202E+21	9,716319E+21	7,537836E+22	1,943252E+22	9,481088E+22
-248	3,768799E+22	3,768988E+22	9,716686E+21	9,716077E+21	7,537787E+22	1,943276E+22	9,481063E+22
-247	3,768990E+22	3,768947E+22	9,715917E+21	9,716789E+21	7,537936E+22	1,943271E+22	9,481207E+22
-246	3,768893E+22	3,768839E+22	9,716734E+21	9,716277E+21	7,537732E+22	1,943301E+22	9,481033E+22
-245	3,768791E+22	3,768921E+22	9,717220E+21	9,716767E+21	7,537712E+22	1,943399E+22	9,481110E+22
-244	3,768923E+22	3,768781E+22	9,716814E+21	9,717558E+21	7,537704E+22	1,943437E+22	9,481141E+22
-243	3,768660E+22	3,768719E+22	9,717937E+21	9,717394E+21	7,537379E+22	1,943533E+22	9,480912E+22
-242	3,768661E+22	3,768739E+22	9,717995E+21	9,718439E+21	7,537400E+22	1,943643E+22	9,481043E+22
-241	3,768730E+22	3,768558E+22	9,718117E+21	9,718626E+21	7,537289E+22	1,943674E+22	9,480963E+22
-240	3,768497E+22	3,768596E+22	9,719136E+21	9,718352E+21	7,537093E+22	1,943749E+22	9,480842E+22
-239	3,768632E+22	3,768588E+22	9,718578E+21	9,719228E+21	7,537220E+22	1,943781E+22	9,481000E+22
-238	3,768557E+22	3,768474E+22	9,719052E+21	9,718785E+21	7,537030E+22	1,943784E+22	9,480814E+22
-237	3,768392E+22	3,768614E+22	9,719392E+21	9,718736E+21	7,537005E+22	1,943813E+22	9,480818E+22
-236	3,768598E+22	3,768548E+22	9,718389E+21	9,719226E+21	7,537146E+22	1,943762E+22	9,480908E+22
-235	3,768483E+22	3,768505E+22	9,718801E+21	9,718240E+21	7,536988E+22	1,943704E+22	9,480692E+22
-234	3,768561E+22	3,768643E+22	9,718416E+21	9,718295E+21	7,537205E+22	1,943671E+22	9,480876E+22
-233	3,768780E+22	3,768589E+22	9,717582E+21	9,718066E+21	7,537368E+22	1,943565E+22	9,480933E+22
-232	3,768622E+22	3,768703E+22	9,717935E+21	9,717167E+21	7,537326E+22	1,943510E+22	9,480836E+22
-231	3,768764E+22	3,768809E+22	9,717118E+21	9,717714E+21	7,537572E+22	1,943483E+22	9,481056E+22
-230	3,768793E+22	3,768712E+22	9,717132E+21	9,717237E+21	7,537505E+22	1,943437E+22	9,480942E+22
-229	3,768642E+22	3,768830E+22	9,717768E+21	9,716917E+21	7,537471E+22	1,943469E+22	9,480940E+22
-228	3,768833E+22	3,768781E+22	9,717073E+21	9,717734E+21	7,537613E+22	1,943481E+22	9,481094E+22
-227	3,768712E+22	3,768647E+22	9,717771E+21	9,717376E+21	7,537359E+22	1,943515E+22	9,480873E+22
-226	3,768609E+22	3,768732E+22	9,718272E+21	9,717945E+21	7,537340E+22	1,943622E+22	9,480962E+22
-225	3,768721E+22	3,768604E+22	9,717880E+21	9,718804E+21	7,537325E+22	1,943668E+22	9,480993E+22
-224	3,768498E+22	3,768537E+22	9,718925E+21	9,718515E+21	7,537035E+22	1,943744E+22	9,480779E+22
-223	3,768517E+22	3,768567E+22	9,718992E+21	9,719411E+21	7,537084E+22	1,943840E+22	9,480924E+22
-222	3,768555E+22	3,768387E+22	9,719241E+21	9,719591E+21	7,536943E+22	1,943883E+22	9,480826E+22
-221	3,768327E+22	3,768445E+22	9,720278E+21	9,719278E+21	7,536772E+22	1,943956E+22	9,480728E+22
-220	3,768429E+22	3,768446E+22	9,719670E+21	9,720285E+21	7,536875E+22	1,943996E+22	9,480870E+22
-219	3,768344E+22	3,768292E+22	9,719958E+21	9,719887E+21	7,536636E+22	1,943984E+22	9,480621E+22
-218	3,768233E+22	3,768413E+22	9,720282E+21	9,719700E+21	7,536646E+22	1,943998E+22	9,480644E+22
-217	3,768467E+22	3,768369E+22	9,719247E+21	9,720078E+21	7,536836E+22	1,943932E+22	9,480769E+22
-216	3,768397E+22	3,768347E+22	9,719510E+21	9,718957E+21	7,536744E+22	1,943847E+22	9,480591E+22
-215	3,768460E+22	3,768529E+22	9,719098E+21	9,718991E+21	7,536990E+22	1,943809E+22	9,480799E+22
-214	3,768612E+22	3,768490E+22	9,718386E+21	9,718876E+21	7,537102E+22	1,943726E+22	9,480828E+22
-213	3,768454E+22	3,768598E+22	9,718861E+21	9,717974E+21	7,537053E+22	1,943683E+22	9,480736E+22
-212	3,768591E+22	3,768684E+22	9,718146E+21	9,718601E+21	7,537275E+22	1,943675E+22	9,480949E+22
-211	3,768623E+22	3,768529E+22	9,718100E+21	9,718198E+21	7,537152E+22	1,943630E+22	9,480781E+22
-210	3,768501E+22	3,768625E+22	9,718814E+21	9,717914E+21	7,537126E+22	1,943673E+22	9,480799E+22
-209	3,768668E+22	3,768601E+22	9,718110E+21	9,718867E+21	7,537269E+22	1,943698E+22	9,480966E+22
-208	3,768548E+22	3,768468E+22	9,718663E+21	9,718556E+21	7,537015E+22	1,943722E+22	9,480737E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-207	3,768440E+22	3,768564E+22	9,719174E+21	9,719076E+21	7,537004E+22	1,943825E+22	9,480829E+22
-206	3,768535E+22	3,768424E+22	9,718952E+21	9,719879E+21	7,536958E+22	1,943883E+22	9,480841E+22
-205	3,768339E+22	3,768364E+22	9,720116E+21	9,719432E+21	7,536704E+22	1,943955E+22	9,480658E+22
-204	3,768350E+22	3,768412E+22	9,720222E+21	9,720366E+21	7,536762E+22	1,944059E+22	9,480820E+22
-203	3,768353E+22	3,768209E+22	9,720326E+21	9,720655E+21	7,536562E+22	1,944098E+22	9,480660E+22
-202	3,768129E+22	3,768262E+22	9,721331E+21	9,720382E+21	7,536391E+22	1,944171E+22	9,480562E+22
-201	3,768225E+22	3,768271E+22	9,720656E+21	9,721368E+21	7,536495E+22	1,944202E+22	9,480698E+22
-200	3,768196E+22	3,768108E+22	9,720761E+21	9,720838E+21	7,536304E+22	1,944160E+22	9,480464E+22
-199	3,768125E+22	3,768250E+22	9,721022E+21	9,720471E+21	7,536375E+22	1,944149E+22	9,480524E+22
-198	3,768341E+22	3,768226E+22	9,720102E+21	9,720834E+21	7,536567E+22	1,944094E+22	9,480660E+22
-197	3,768273E+22	3,768242E+22	9,720390E+21	9,719694E+21	7,536515E+22	1,944008E+22	9,480524E+22
-196	3,768298E+22	3,768439E+22	9,719995E+21	9,719864E+21	7,536737E+22	1,943986E+22	9,480723E+22
-195	3,768421E+22	3,768347E+22	9,719236E+21	9,719832E+21	7,536768E+22	1,943907E+22	9,480675E+22
-194	3,768305E+22	3,768415E+22	9,719809E+21	9,718907E+21	7,536720E+22	1,943872E+22	9,480592E+22
-193	3,768437E+22	3,768504E+22	9,719136E+21	9,719507E+21	7,536941E+22	1,943864E+22	9,480805E+22
-192	3,768501E+22	3,768347E+22	9,718964E+21	9,719142E+21	7,536848E+22	1,943811E+22	9,480659E+22
-191	3,768365E+22	3,768462E+22	9,719629E+21	9,718879E+21	7,536827E+22	1,943851E+22	9,480678E+22
-190	3,768474E+22	3,768447E+22	9,719074E+21	9,719948E+21	7,536921E+22	1,943902E+22	9,480823E+22
-189	3,768372E+22	3,768320E+22	9,719712E+21	9,719575E+21	7,536692E+22	1,943929E+22	9,480621E+22
-188	3,768265E+22	3,768411E+22	9,720321E+21	9,720097E+21	7,536676E+22	1,944042E+22	9,480718E+22
-187	3,768352E+22	3,768233E+22	9,720103E+21	9,720918E+21	7,536585E+22	1,944102E+22	9,480687E+22
-186	3,768183E+22	3,768160E+22	9,721338E+21	9,720496E+21	7,536343E+22	1,944183E+22	9,480526E+22
-185	3,768147E+22	3,768238E+22	9,721389E+21	9,721496E+21	7,536385E+22	1,944288E+22	9,480674E+22
-184	3,768160E+22	3,768029E+22	9,721263E+21	9,721836E+21	7,536189E+22	1,944310E+22	9,480499E+22
-183	3,767952E+22	3,768077E+22	9,722168E+21	9,721430E+21	7,536030E+22	1,944360E+22	9,480389E+22
-182	3,768052E+22	3,768089E+22	9,721589E+21	9,722307E+21	7,536141E+22	1,944390E+22	9,480530E+22
-181	3,768075E+22	3,767954E+22	9,721692E+21	9,721580E+21	7,536030E+22	1,944327E+22	9,480357E+22
-180	3,768005E+22	3,768131E+22	9,721946E+21	9,721238E+21	7,536137E+22	1,944318E+22	9,480455E+22
-179	3,768180E+22	3,768099E+22	9,720943E+21	9,721691E+21	7,536279E+22	1,944263E+22	9,480542E+22
-178	3,768117E+22	3,768106E+22	9,721262E+21	9,720609E+21	7,536223E+22	1,944187E+22	9,480410E+22
-177	3,768123E+22	3,768304E+22	9,720885E+21	9,720755E+21	7,536427E+22	1,944164E+22	9,480590E+22
-176	3,768285E+22	3,768179E+22	9,720007E+21	9,720696E+21	7,536464E+22	1,944070E+22	9,480534E+22
-175	3,768191E+22	3,768243E+22	9,720581E+21	9,719702E+21	7,536434E+22	1,944028E+22	9,480462E+22
-174	3,768294E+22	3,768337E+22	9,720060E+21	9,720387E+21	7,536631E+22	1,944045E+22	9,480676E+22
-173	3,768348E+22	3,768207E+22	9,719922E+21	9,720082E+21	7,536555E+22	1,944000E+22	9,480555E+22
-172	3,768187E+22	3,768333E+22	9,720614E+21	9,719962E+21	7,536520E+22	1,944058E+22	9,480578E+22
-171	3,768275E+22	3,768265E+22	9,720104E+21	9,721063E+21	7,536540E+22	1,944117E+22	9,480657E+22
-170	3,768215E+22	3,768116E+22	9,720869E+21	9,720641E+21	7,536332E+22	1,944151E+22	9,480483E+22
-169	3,768094E+22	3,768225E+22	9,721533E+21	9,721100E+21	7,536319E+22	1,944263E+22	9,480582E+22
-168	3,768190E+22	3,768046E+22	9,721177E+21	9,721987E+21	7,536236E+22	1,944316E+22	9,480552E+22
-167	3,767999E+22	3,767990E+22	9,722327E+21	9,721587E+21	7,535990E+22	1,944391E+22	9,480381E+22
-166	3,767919E+22	3,768069E+22	9,722447E+21	9,722640E+21	7,535987E+22	1,944509E+22	9,480496E+22
-165	3,767968E+22	3,767865E+22	9,722303E+21	9,722864E+21	7,535832E+22	1,944517E+22	9,480349E+22
-164	3,767793E+22	3,767917E+22	9,723157E+21	9,722393E+21	7,535710E+22	1,944555E+22	9,480265E+22
-163	3,767903E+22	3,767904E+22	9,722546E+21	9,723211E+21	7,535807E+22	1,944576E+22	9,480383E+22
-162	3,767963E+22	3,767786E+22	9,722654E+21	9,722468E+21	7,535750E+22	1,944512E+22	9,480262E+22
-161	3,767848E+22	3,768005E+22	9,722850E+21	9,722126E+21	7,535853E+22	1,944498E+22	9,480351E+22
-160	3,768027E+22	3,767966E+22	9,721676E+21	9,722617E+21	7,535993E+22	1,944429E+22	9,480423E+22
-159	3,767977E+22	3,767955E+22	9,721956E+21	9,721418E+21	7,535932E+22	1,944337E+22	9,480270E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-158	3,767964E+22	3,768144E+22	9,721745E+21	9,721518E+21	7,536108E+22	1,944326E+22	9,480434E+22
-157	3,768160E+22	3,768037E+22	9,720904E+21	9,721396E+21	7,536196E+22	1,944230E+22	9,480426E+22
-156	3,768057E+22	3,768112E+22	9,721485E+21	9,720544E+21	7,536169E+22	1,944203E+22	9,480372E+22
-155	3,768113E+22	3,768183E+22	9,720986E+21	9,721388E+21	7,536295E+22	1,944237E+22	9,480533E+22
-154	3,768183E+22	3,768041E+22	9,720919E+21	9,721170E+21	7,536223E+22	1,944209E+22	9,480432E+22
-153	3,768002E+22	3,768172E+22	9,721670E+21	9,721013E+21	7,536174E+22	1,944268E+22	9,480442E+22
-152	3,768124E+22	3,768081E+22	9,721094E+21	9,722106E+21	7,536205E+22	1,944320E+22	9,480525E+22
-151	3,768076E+22	3,767929E+22	9,721882E+21	9,721625E+21	7,536005E+22	1,944351E+22	9,480355E+22
-150	3,767907E+22	3,768051E+22	9,722693E+21	9,722174E+21	7,535958E+22	1,944487E+22	9,480445E+22
-149	3,767990E+22	3,767894E+22	9,722307E+21	9,723103E+21	7,535884E+22	1,944541E+22	9,480425E+22
-148	3,767789E+22	3,767832E+22	9,723404E+21	9,722795E+21	7,535621E+22	1,944620E+22	9,480241E+22
-147	3,767709E+22	3,767857E+22	9,723510E+21	9,723784E+21	7,535566E+22	1,944729E+22	9,480295E+22
-146	3,767822E+22	3,767650E+22	9,723378E+21	9,723878E+21	7,535472E+22	1,944726E+22	9,480197E+22
-145	3,767657E+22	3,767745E+22	9,724170E+21	9,723273E+21	7,535402E+22	1,944744E+22	9,480146E+22
-144	3,767782E+22	3,767746E+22	9,723380E+21	9,724089E+21	7,535528E+22	1,944747E+22	9,480275E+22
-143	3,767821E+22	3,767661E+22	9,723391E+21	9,723294E+21	7,535482E+22	1,944668E+22	9,480151E+22
-142	3,767668E+22	3,767885E+22	9,723682E+21	9,722958E+21	7,535552E+22	1,944664E+22	9,480216E+22
-141	3,767864E+22	3,767845E+22	9,722534E+21	9,723342E+21	7,535709E+22	1,944588E+22	9,480296E+22
-140	3,767833E+22	3,767826E+22	9,722821E+21	9,722192E+21	7,535660E+22	1,944501E+22	9,480161E+22
-139	3,767812E+22	3,767967E+22	9,722667E+21	9,722345E+21	7,535779E+22	1,944501E+22	9,480281E+22
-138	3,768029E+22	3,767866E+22	9,721873E+21	9,722345E+21	7,535895E+22	1,944422E+22	9,480317E+22
-137	3,767887E+22	3,767972E+22	9,722400E+21	9,721581E+21	7,535859E+22	1,944398E+22	9,480257E+22
-136	3,767952E+22	3,768016E+22	9,721808E+21	9,722497E+21	7,535968E+22	1,944430E+22	9,480398E+22
-135	3,768038E+22	3,767866E+22	9,721768E+21	9,722159E+21	7,535904E+22	1,944393E+22	9,480297E+22
-134	3,767842E+22	3,767996E+22	9,722727E+21	9,721956E+21	7,535837E+22	1,944468E+22	9,480306E+22
-133	3,767971E+22	3,767927E+22	9,722233E+21	9,722996E+21	7,535898E+22	1,944523E+22	9,480421E+22
-132	3,767899E+22	3,767787E+22	9,723020E+21	9,722694E+21	7,535686E+22	1,944571E+22	9,480257E+22
-131	3,767675E+22	3,767870E+22	9,723849E+21	9,723370E+21	7,535544E+22	1,944722E+22	9,480266E+22
-130	3,767786E+22	3,767696E+22	9,723476E+21	9,724332E+21	7,535483E+22	1,944781E+22	9,480263E+22
-129	3,767592E+22	3,767636E+22	9,724510E+21	9,723903E+21	7,535228E+22	1,944841E+22	9,480069E+22
-128	3,767566E+22	3,767648E+22	9,724466E+21	9,724811E+21	7,535214E+22	1,944928E+22	9,480142E+22
-127	3,767709E+22	3,767467E+22	9,724254E+21	9,724748E+21	7,535176E+22	1,944900E+22	9,480076E+22
-126	3,767503E+22	3,767602E+22	9,725114E+21	9,724160E+21	7,535105E+22	1,944927E+22	9,480033E+22
-125	3,767615E+22	3,767645E+22	9,724277E+21	9,724936E+21	7,535260E+22	1,944921E+22	9,480182E+22
-124	3,767645E+22	3,767554E+22	9,724242E+21	9,724191E+21	7,535200E+22	1,944843E+22	9,480043E+22
-123	3,767481E+22	3,767717E+22	9,724593E+21	9,723813E+21	7,535197E+22	1,944841E+22	9,480038E+22
-122	3,767727E+22	3,767666E+22	9,723484E+21	9,724148E+21	7,535393E+22	1,944763E+22	9,480157E+22
-121	3,767693E+22	3,767668E+22	9,723730E+21	9,723003E+21	7,535361E+22	1,944673E+22	9,480034E+22
-120	3,767685E+22	3,767803E+22	9,723434E+21	9,723286E+21	7,535489E+22	1,944672E+22	9,480161E+22
-119	3,767889E+22	3,767722E+22	9,722586E+21	9,723290E+21	7,535611E+22	1,944588E+22	9,480198E+22
-118	3,767721E+22	3,767832E+22	9,723253E+21	9,722555E+21	7,535553E+22	1,944581E+22	9,480133E+22
-117	3,767803E+22	3,767882E+22	9,722753E+21	9,723349E+21	7,535685E+22	1,944610E+22	9,480295E+22
-116	3,767895E+22	3,767729E+22	9,722792E+21	9,723073E+21	7,535623E+22	1,944586E+22	9,480210E+22
-115	3,767668E+22	3,767809E+22	9,723907E+21	9,722959E+21	7,535477E+22	1,944687E+22	9,480163E+22
-114	3,767789E+22	3,767745E+22	9,723478E+21	9,724127E+21	7,535534E+22	1,944760E+22	9,480294E+22
-113	3,767676E+22	3,767619E+22	9,724203E+21	9,723937E+21	7,535295E+22	1,944814E+22	9,480109E+22
-112	3,767477E+22	3,767650E+22	9,724873E+21	9,724643E+21	7,535127E+22	1,944952E+22	9,480078E+22
-111	3,767617E+22	3,767476E+22	9,724446E+21	9,725413E+21	7,535094E+22	1,944986E+22	9,480079E+22
-110	3,767437E+22	3,767441E+22	9,725526E+21	9,724876E+21	7,534878E+22	1,945040E+22	9,479918E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-109	3,767428E+22	3,767497E+22	9,725479E+21	9,725647E+21	7,534925E+22	1,945113E+22	9,480038E+22
-108	3,767551E+22	3,767359E+22	9,725215E+21	9,725668E+21	7,534910E+22	1,945088E+22	9,479999E+22
-107	3,767300E+22	3,767462E+22	9,726102E+21	9,725130E+21	7,534762E+22	1,945123E+22	9,479885E+22
-106	3,767431E+22	3,767495E+22	9,725289E+21	9,725869E+21	7,534925E+22	1,945116E+22	9,480041E+22
-105	3,767466E+22	3,767403E+22	9,725186E+21	9,725060E+21	7,534870E+22	1,945025E+22	9,479894E+22
-104	3,767351E+22	3,767524E+22	9,725384E+21	9,724687E+21	7,534875E+22	1,945007E+22	9,479882E+22
-103	3,767619E+22	3,767492E+22	9,724221E+21	9,724954E+21	7,535111E+22	1,944918E+22	9,480029E+22
-102	3,767559E+22	3,767527E+22	9,724502E+21	9,723905E+21	7,535085E+22	1,944841E+22	9,479926E+22
-101	3,767544E+22	3,767691E+22	9,724214E+21	9,724172E+21	7,535235E+22	1,944839E+22	9,480073E+22
-100	3,767743E+22	3,767608E+22	9,723411E+21	9,724212E+21	7,535351E+22	1,944762E+22	9,480113E+22
-99	3,767556E+22	3,767662E+22	9,724258E+21	9,723454E+21	7,535218E+22	1,944771E+22	9,479989E+22
-98	3,767662E+22	3,767711E+22	9,723901E+21	9,724223E+21	7,535373E+22	1,944812E+22	9,480186E+22
-97	3,767722E+22	3,767569E+22	9,723965E+21	9,724040E+21	7,535291E+22	1,944800E+22	9,480092E+22
-96	3,767483E+22	3,767621E+22	9,724968E+21	9,724131E+21	7,535103E+22	1,944910E+22	9,480013E+22
-95	3,767590E+22	3,767558E+22	9,724468E+21	9,725299E+21	7,535147E+22	1,944977E+22	9,480124E+22
-94	3,767466E+22	3,767424E+22	9,725251E+21	9,725125E+21	7,534890E+22	1,945038E+22	9,479927E+22
-93	3,767306E+22	3,767468E+22	9,725909E+21	9,725662E+21	7,534774E+22	1,945157E+22	9,479931E+22
-92	3,767472E+22	3,767311E+22	9,725475E+21	9,726399E+21	7,534784E+22	1,945187E+22	9,479971E+22
-91	3,767272E+22	3,767259E+22	9,726645E+21	9,725877E+21	7,534530E+22	1,945252E+22	9,479783E+22
-90	3,767260E+22	3,767347E+22	9,726603E+21	9,726671E+21	7,534607E+22	1,945327E+22	9,479935E+22
-89	3,767345E+22	3,767229E+22	9,726253E+21	9,726716E+21	7,534573E+22	1,945297E+22	9,479870E+22
-88	3,767123E+22	3,767277E+22	9,726977E+21	9,726174E+21	7,534400E+22	1,945315E+22	9,479715E+22
-87	3,767284E+22	3,767304E+22	9,726093E+21	9,726692E+21	7,534588E+22	1,945279E+22	9,479867E+22
-86	3,767333E+22	3,767232E+22	9,726009E+21	9,725848E+21	7,534565E+22	1,945186E+22	9,479751E+22
-85	3,767240E+22	3,767385E+22	9,726163E+21	9,725410E+21	7,534625E+22	1,945157E+22	9,479782E+22
-84	3,767488E+22	3,767392E+22	9,724973E+21	9,725790E+21	7,534880E+22	1,945076E+22	9,479957E+22
-83	3,767393E+22	3,767394E+22	9,725353E+21	9,724817E+21	7,534787E+22	1,945017E+22	9,479804E+22
-82	3,767391E+22	3,767552E+22	9,725184E+21	9,725036E+21	7,534943E+22	1,945022E+22	9,479966E+22
-81	3,767580E+22	3,767474E+22	9,724438E+21	9,725067E+21	7,535054E+22	1,944951E+22	9,480005E+22
-80	3,767420E+22	3,767469E+22	9,725242E+21	9,724416E+21	7,534889E+22	1,944966E+22	9,479855E+22
-79	3,767506E+22	3,767526E+22	9,724913E+21	9,725188E+21	7,535032E+22	1,945010E+22	9,480042E+22
-78	3,767525E+22	3,767406E+22	9,725002E+21	9,725212E+21	7,534931E+22	1,945021E+22	9,479953E+22
-77	3,767285E+22	3,767451E+22	9,725971E+21	9,725306E+21	7,534737E+22	1,945128E+22	9,479864E+22
-76	3,767401E+22	3,767383E+22	9,725481E+21	9,726461E+21	7,534784E+22	1,945194E+22	9,479978E+22
-75	3,767284E+22	3,767206E+22	9,726372E+21	9,726209E+21	7,534490E+22	1,945258E+22	9,479749E+22
-74	3,767159E+22	3,767274E+22	9,727092E+21	9,726646E+21	7,534433E+22	1,945374E+22	9,479806E+22
-73	3,767301E+22	3,767161E+22	9,726644E+21	9,727401E+21	7,534462E+22	1,945405E+22	9,479866E+22
-72	3,767096E+22	3,767087E+22	9,727651E+21	9,727001E+21	7,534184E+22	1,945465E+22	9,479649E+22
-71	3,767074E+22	3,767185E+22	9,727537E+21	9,727672E+21	7,534259E+22	1,945521E+22	9,479780E+22
-70	3,767157E+22	3,767069E+22	9,727177E+21	9,727684E+21	7,534226E+22	1,945486E+22	9,479712E+22
-69	3,766978E+22	3,767116E+22	9,727825E+21	9,726976E+21	7,534094E+22	1,945480E+22	9,479574E+22
-68	3,767162E+22	3,767160E+22	9,726905E+21	9,727457E+21	7,534322E+22	1,945436E+22	9,479758E+22
-67	3,767192E+22	3,767071E+22	9,726901E+21	9,726685E+21	7,534263E+22	1,945359E+22	9,479622E+22
-66	3,767102E+22	3,767261E+22	9,727052E+21	9,726302E+21	7,534363E+22	1,945335E+22	9,479698E+22
-65	3,767320E+22	3,767278E+22	9,725864E+21	9,726711E+21	7,534598E+22	1,945258E+22	9,479855E+22
-64	3,767248E+22	3,767222E+22	9,726170E+21	9,725776E+21	7,534470E+22	1,945195E+22	9,479665E+22
-63	3,767263E+22	3,767378E+22	9,726029E+21	9,725819E+21	7,534641E+22	1,945185E+22	9,479825E+22
-62	3,767434E+22	3,767311E+22	9,725380E+21	9,725923E+21	7,534745E+22	1,945130E+22	9,479876E+22
-61	3,767271E+22	3,767320E+22	9,726196E+21	9,725342E+21	7,534591E+22	1,945154E+22	9,479745E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-60	3,767323E+22	3,767392E+22	9,725867E+21	9,726252E+21	7,534714E+22	1,945212E+22	9,479926E+22
-59	3,767310E+22	3,767222E+22	9,726087E+21	9,726392E+21	7,534532E+22	1,945248E+22	9,479780E+22
-58	3,767102E+22	3,767261E+22	9,727105E+21	9,726418E+21	7,534363E+22	1,945352E+22	9,479715E+22
-57	3,767223E+22	3,767199E+22	9,726649E+21	9,727516E+21	7,534423E+22	1,945417E+22	9,479839E+22
-56	3,767143E+22	3,766988E+22	9,727450E+21	9,727317E+21	7,534131E+22	1,945477E+22	9,479608E+22
-55	3,767009E+22	3,767087E+22	9,728147E+21	9,727671E+21	7,534096E+22	1,945582E+22	9,479678E+22
-54	3,767107E+22	3,767014E+22	9,727698E+21	9,728535E+21	7,534121E+22	1,945623E+22	9,479744E+22
-53	3,766909E+22	3,766938E+22	9,728619E+21	9,728062E+21	7,533847E+22	1,945668E+22	9,479515E+22
-52	3,766894E+22	3,767033E+22	9,728468E+21	9,728609E+21	7,533926E+22	1,945708E+22	9,479634E+22
-51	3,766987E+22	3,766878E+22	9,728180E+21	9,728559E+21	7,533865E+22	1,945674E+22	9,479539E+22
-50	3,766844E+22	3,766944E+22	9,728807E+21	9,727764E+21	7,533788E+22	1,945657E+22	9,479445E+22
-49	3,767008E+22	3,767031E+22	9,727852E+21	9,728300E+21	7,534039E+22	1,945615E+22	9,479654E+22
-48	3,767047E+22	3,766917E+22	9,727663E+21	9,727666E+21	7,533965E+22	1,945533E+22	9,479497E+22
-47	3,766955E+22	3,767113E+22	9,727792E+21	9,727163E+21	7,534067E+22	1,945496E+22	9,479563E+22
-46	3,767168E+22	3,767144E+22	9,726669E+21	9,727558E+21	7,534312E+22	1,945423E+22	9,479735E+22
-45	3,767128E+22	3,767078E+22	9,726975E+21	9,726542E+21	7,534206E+22	1,945352E+22	9,479557E+22
-44	3,767135E+22	3,767241E+22	9,726910E+21	9,726598E+21	7,534376E+22	1,945351E+22	9,479727E+22
-43	3,767262E+22	3,767149E+22	9,726420E+21	9,726896E+21	7,534412E+22	1,945332E+22	9,479743E+22
-42	3,767086E+22	3,767167E+22	9,727265E+21	9,726438E+21	7,534252E+22	1,945370E+22	9,479623E+22
-41	3,767114E+22	3,767230E+22	9,726978E+21	9,727406E+21	7,534345E+22	1,945438E+22	9,479783E+22
-40	3,767138E+22	3,766995E+22	9,727110E+21	9,727582E+21	7,534133E+22	1,945469E+22	9,479603E+22
-39	3,766960E+22	3,767043E+22	9,728128E+21	9,727420E+21	7,534003E+22	1,945555E+22	9,479558E+22
-38	3,767069E+22	3,767019E+22	9,727743E+21	9,728545E+21	7,534088E+22	1,945629E+22	9,479717E+22
-37	3,766985E+22	3,766838E+22	9,728493E+21	9,728362E+21	7,533822E+22	1,945686E+22	9,479508E+22
-36	3,766819E+22	3,766961E+22	9,729165E+21	9,728724E+21	7,533780E+22	1,945789E+22	9,479569E+22
-35	3,766885E+22	3,766846E+22	9,728834E+21	9,729619E+21	7,533730E+22	1,945845E+22	9,479576E+22
-34	3,766720E+22	3,766769E+22	9,729731E+21	9,729042E+21	7,533489E+22	1,945877E+22	9,479366E+22
-33	3,766717E+22	3,766861E+22	9,729538E+21	9,729504E+21	7,533578E+22	1,945904E+22	9,479482E+22
-32	3,766846E+22	3,766670E+22	9,729088E+21	9,729528E+21	7,533516E+22	1,945862E+22	9,479377E+22
-31	3,766715E+22	3,766775E+22	9,729588E+21	9,728667E+21	7,533490E+22	1,945826E+22	9,479315E+22
-30	3,766852E+22	3,766899E+22	9,728618E+21	9,729271E+21	7,533751E+22	1,945789E+22	9,479540E+22
-29	3,766912E+22	3,766789E+22	9,728360E+21	9,728539E+21	7,533701E+22	1,945690E+22	9,479391E+22
-28	3,766831E+22	3,766986E+22	9,728523E+21	9,727877E+21	7,533818E+22	1,945640E+22	9,479458E+22
-27	3,767027E+22	3,766988E+22	9,727604E+21	9,728267E+21	7,534014E+22	1,945587E+22	9,479602E+22
-26	3,766992E+22	3,766939E+22	9,727980E+21	9,727309E+21	7,533931E+22	1,945529E+22	9,479460E+22
-25	3,766952E+22	3,767114E+22	9,727972E+21	9,727533E+21	7,534066E+22	1,945551E+22	9,479617E+22
-24	3,767073E+22	3,766970E+22	9,727388E+21	9,728065E+21	7,534043E+22	1,945545E+22	9,479588E+22
-23	3,766910E+22	3,766972E+22	9,728212E+21	9,727538E+21	7,533882E+22	1,945575E+22	9,479457E+22
-22	3,766942E+22	3,767043E+22	9,727997E+21	9,728502E+21	7,533984E+22	1,945650E+22	9,479634E+22
-21	3,767004E+22	3,766809E+22	9,728093E+21	9,728599E+21	7,533813E+22	1,945669E+22	9,479483E+22
-20	3,766820E+22	3,766882E+22	9,729159E+21	9,728396E+21	7,533702E+22	1,945755E+22	9,479457E+22
-19	3,766878E+22	3,766859E+22	9,728945E+21	9,729665E+21	7,533736E+22	1,945861E+22	9,479597E+22
-18	3,766775E+22	3,766691E+22	9,729693E+21	9,729527E+21	7,533466E+22	1,945922E+22	9,479388E+22
-17	3,766589E+22	3,766801E+22	9,730373E+21	9,729864E+21	7,533390E+22	1,946024E+22	9,479413E+22
-16	3,766697E+22	3,766617E+22	9,729882E+21	9,730731E+21	7,533314E+22	1,946061E+22	9,479376E+22
-15	3,766571E+22	3,766545E+22	9,730675E+21	9,729956E+21	7,533115E+22	1,946063E+22	9,479178E+22
-14	3,766570E+22	3,766683E+22	9,730448E+21	9,730422E+21	7,533253E+22	1,946087E+22	9,479340E+22
-13	3,766714E+22	3,766529E+22	9,729838E+21	9,730429E+21	7,533244E+22	1,946027E+22	9,479271E+22
-12	3,766576E+22	3,766667E+22	9,730280E+21	9,729498E+21	7,533242E+22	1,945978E+22	9,479220E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
-11	3,766691E+22	3,766770E+22	9,729486E+21	9,730085E+21	7,533461E+22	1,945957E+22	9,479418E+22
-10	3,766771E+22	3,766670E+22	9,729265E+21	9,729252E+21	7,533441E+22	1,945852E+22	9,479292E+22
-9	3,766686E+22	3,766859E+22	9,729512E+21	9,728595E+21	7,533545E+22	1,945811E+22	9,479356E+22
-8	3,766883E+22	3,766810E+22	9,728544E+21	9,729163E+21	7,533692E+22	1,945771E+22	9,479463E+22
-7	3,766836E+22	3,766773E+22	9,728881E+21	9,728308E+21	7,533609E+22	1,945719E+22	9,479328E+22
-6	3,766762E+22	3,766957E+22	9,728901E+21	9,728682E+21	7,533719E+22	1,945758E+22	9,479478E+22
-5	3,766910E+22	3,766794E+22	9,728258E+21	9,729184E+21	7,533704E+22	1,945744E+22	9,479448E+22
-4	3,766773E+22	3,766797E+22	9,729088E+21	9,728498E+21	7,533570E+22	1,945759E+22	9,479329E+22
-3	3,766788E+22	3,766851E+22	9,729109E+21	9,729455E+21	7,533640E+22	1,945856E+22	9,479496E+22
-2	3,766845E+22	3,766661E+22	9,729271E+21	9,729577E+21	7,533506E+22	1,945885E+22	9,479391E+22
-1	3,766618E+22	3,766747E+22	9,730390E+21	9,729494E+21	7,533364E+22	1,945988E+22	9,479353E+22
1	3,766654E+22	3,766667E+22	9,730104E+21	9,730903E+21	7,533321E+22	1,946101E+22	9,479422E+22
2	3,766572E+22	3,766489E+22	9,730782E+21	9,730672E+21	7,533061E+22	1,946145E+22	9,479207E+22
3	3,766396E+22	3,766597E+22	9,731432E+21	9,730944E+21	7,532993E+22	1,946238E+22	9,479231E+22
4	3,766553E+22	3,766417E+22	9,730802E+21	9,731700E+21	7,532970E+22	1,946250E+22	9,479220E+22
5	3,766447E+22	3,766379E+22	9,731496E+21	9,730821E+21	7,532826E+22	1,946232E+22	9,479058E+22
6	3,766409E+22	3,766535E+22	9,731384E+21	9,731368E+21	7,532944E+22	1,946275E+22	9,479219E+22
7	3,766549E+22	3,766423E+22	9,730747E+21	9,731333E+21	7,532972E+22	1,946208E+22	9,479180E+22
8	3,766409E+22	3,766550E+22	9,731229E+21	9,730342E+21	7,532959E+22	1,946157E+22	9,479116E+22
9	3,766546E+22	3,766594E+22	9,730389E+21	9,730903E+21	7,533140E+22	1,946129E+22	9,479269E+22
10	3,766645E+22	3,766500E+22	9,730137E+21	9,729998E+21	7,533145E+22	1,946014E+22	9,479158E+22
11	3,766532E+22	3,766710E+22	9,730418E+21	9,729481E+21	7,533243E+22	1,945990E+22	9,479233E+22
12	3,766725E+22	3,766668E+22	9,729338E+21	9,730157E+21	7,533394E+22	1,945949E+22	9,479343E+22
13	3,766674E+22	3,766633E+22	9,729648E+21	9,729295E+21	7,533307E+22	1,945894E+22	9,479201E+22
14	3,766591E+22	3,766786E+22	9,729882E+21	9,729701E+21	7,533377E+22	1,945958E+22	9,479335E+22
15	3,766759E+22	3,766637E+22	9,729291E+21	9,730107E+21	7,533396E+22	1,945940E+22	9,479336E+22
16	3,766621E+22	3,766639E+22	9,730227E+21	9,729445E+21	7,533259E+22	1,945967E+22	9,479227E+22
17	3,766625E+22	3,766657E+22	9,730240E+21	9,730547E+21	7,533282E+22	1,946079E+22	9,479361E+22
18	3,766657E+22	3,766484E+22	9,730383E+21	9,730749E+21	7,533141E+22	1,946113E+22	9,479254E+22
19	3,766396E+22	3,766572E+22	9,731535E+21	9,730756E+21	7,532968E+22	1,946229E+22	9,479197E+22
20	3,766461E+22	3,766467E+22	9,731135E+21	9,732060E+21	7,532928E+22	1,946320E+22	9,479247E+22
21	3,766412E+22	3,766290E+22	9,731740E+21	9,731636E+21	7,532702E+22	1,946338E+22	9,479039E+22
22	3,766234E+22	3,766394E+22	9,732513E+21	9,731886E+21	7,532628E+22	1,946440E+22	9,479068E+22
23	3,766392E+22	3,766273E+22	9,731836E+21	9,732606E+21	7,532665E+22	1,946444E+22	9,479109E+22
24	3,766272E+22	3,766263E+22	9,732495E+21	9,731793E+21	7,532535E+22	1,946429E+22	9,478964E+22
25	3,766234E+22	3,766374E+22	9,732307E+21	9,732375E+21	7,532609E+22	1,946468E+22	9,479077E+22
26	3,766397E+22	3,766269E+22	9,731625E+21	9,732205E+21	7,532666E+22	1,946383E+22	9,479049E+22
27	3,766262E+22	3,766398E+22	9,732111E+21	9,731170E+21	7,532660E+22	1,946328E+22	9,478988E+22
28	3,766423E+22	3,766436E+22	9,731180E+21	9,731684E+21	7,532858E+22	1,946286E+22	9,479145E+22
29	3,766523E+22	3,766362E+22	9,730875E+21	9,730804E+21	7,532885E+22	1,946168E+22	9,479053E+22
30	3,766364E+22	3,766561E+22	9,731307E+21	9,730465E+21	7,532925E+22	1,946177E+22	9,479102E+22
31	3,766548E+22	3,766542E+22	9,730253E+21	9,731140E+21	7,533089E+22	1,946139E+22	9,479228E+22
32	3,766517E+22	3,766480E+22	9,730615E+21	9,730258E+21	7,532997E+22	1,946087E+22	9,479084E+22
33	3,766447E+22	3,766575E+22	9,730875E+21	9,730649E+21	7,533022E+22	1,946152E+22	9,479174E+22
34	3,766626E+22	3,766451E+22	9,730320E+21	9,731022E+21	7,533078E+22	1,946134E+22	9,479212E+22
35	3,766449E+22	3,766479E+22	9,731330E+21	9,730509E+21	7,532928E+22	1,946184E+22	9,479112E+22
36	3,766434E+22	3,766499E+22	9,731279E+21	9,731690E+21	7,532933E+22	1,946297E+22	9,479230E+22
37	3,766461E+22	3,766322E+22	9,731395E+21	9,731861E+21	7,532783E+22	1,946326E+22	9,479109E+22
38	3,766186E+22	3,766374E+22	9,732711E+21	9,731888E+21	7,532560E+22	1,946460E+22	9,479020E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
39	3,766272E+22	3,766289E+22	9,732292E+21	9,733059E+21	7,532561E+22	1,946535E+22	9,479096E+22
40	3,766245E+22	3,766110E+22	9,732890E+21	9,732652E+21	7,532355E+22	1,946554E+22	9,478909E+22
41	3,766066E+22	3,766192E+22	9,733573E+21	9,732994E+21	7,532258E+22	1,946657E+22	9,478915E+22
42	3,766222E+22	3,766110E+22	9,732806E+21	9,733708E+21	7,532333E+22	1,946651E+22	9,478984E+22
43	3,766091E+22	3,766115E+22	9,733433E+21	9,732875E+21	7,532206E+22	1,946631E+22	9,478837E+22
44	3,766093E+22	3,766211E+22	9,733119E+21	9,733270E+21	7,532304E+22	1,946639E+22	9,478943E+22
45	3,766280E+22	3,766116E+22	9,732373E+21	9,732882E+21	7,532396E+22	1,946526E+22	9,478922E+22
46	3,766127E+22	3,766244E+22	9,733011E+21	9,731911E+21	7,532371E+22	1,946492E+22	9,478863E+22
47	3,766265E+22	3,766324E+22	9,732063E+21	9,732436E+21	7,532589E+22	1,946450E+22	9,479039E+22
48	3,766347E+22	3,766248E+22	9,731777E+21	9,731726E+21	7,532596E+22	1,946350E+22	9,478946E+22
49	3,766193E+22	3,766386E+22	9,732184E+21	9,731476E+21	7,532579E+22	1,946366E+22	9,478945E+22
50	3,766403E+22	3,766364E+22	9,731158E+21	9,732070E+21	7,532767E+22	1,946323E+22	9,479089E+22
51	3,766378E+22	3,766309E+22	9,731571E+21	9,731186E+21	7,532687E+22	1,946276E+22	9,478963E+22
52	3,766326E+22	3,766400E+22	9,731792E+21	9,731566E+21	7,532725E+22	1,946336E+22	9,479061E+22
53	3,766480E+22	3,766305E+22	9,731252E+21	9,731982E+21	7,532786E+22	1,946323E+22	9,479109E+22
54	3,766245E+22	3,766323E+22	9,732461E+21	9,731693E+21	7,532568E+22	1,946415E+22	9,478983E+22
55	3,766208E+22	3,766351E+22	9,732453E+21	9,732823E+21	7,532559E+22	1,946528E+22	9,479086E+22
56	3,766260E+22	3,766140E+22	9,732608E+21	9,733003E+21	7,532400E+22	1,946561E+22	9,478961E+22
57	3,766007E+22	3,766129E+22	9,733866E+21	9,733004E+21	7,532136E+22	1,946687E+22	9,478823E+22
58	3,766113E+22	3,766076E+22	9,733402E+21	9,734120E+21	7,532188E+22	1,946752E+22	9,478941E+22
59	3,766070E+22	3,765938E+22	9,733934E+21	9,733779E+21	7,532008E+22	1,946771E+22	9,478779E+22
60	3,765900E+22	3,766032E+22	9,734452E+21	9,734086E+21	7,531931E+22	1,946854E+22	9,478785E+22
61	3,766070E+22	3,765971E+22	9,733629E+21	9,734626E+21	7,532041E+22	1,946825E+22	9,478867E+22
62	3,765934E+22	3,765959E+22	9,734382E+21	9,733737E+21	7,531893E+22	1,946812E+22	9,478704E+22
63	3,765940E+22	3,766084E+22	9,734064E+21	9,733939E+21	7,532024E+22	1,946800E+22	9,478824E+22
64	3,766141E+22	3,765984E+22	9,733318E+21	9,733635E+21	7,532125E+22	1,946695E+22	9,478821E+22
65	3,765965E+22	3,766068E+22	9,733900E+21	9,732837E+21	7,532033E+22	1,946674E+22	9,478706E+22
66	3,766095E+22	3,766173E+22	9,732920E+21	9,733426E+21	7,532268E+22	1,946635E+22	9,478902E+22
67	3,766179E+22	3,766091E+22	9,732637E+21	9,732749E+21	7,532271E+22	1,946539E+22	9,478809E+22
68	3,766070E+22	3,766204E+22	9,732955E+21	9,732387E+21	7,532274E+22	1,946534E+22	9,478808E+22
69	3,766299E+22	3,766202E+22	9,731949E+21	9,732821E+21	7,532501E+22	1,946477E+22	9,478978E+22
70	3,766238E+22	3,766155E+22	9,732568E+21	9,732081E+21	7,532393E+22	1,946465E+22	9,478858E+22
71	3,766142E+22	3,766289E+22	9,732858E+21	9,732489E+21	7,532431E+22	1,946535E+22	9,478965E+22
72	3,766273E+22	3,766178E+22	9,732396E+21	9,733105E+21	7,532451E+22	1,946550E+22	9,479002E+22
73	3,766029E+22	3,766116E+22	9,733636E+21	9,732924E+21	7,532145E+22	1,946656E+22	9,478801E+22
74	3,766015E+22	3,766137E+22	9,733623E+21	9,733971E+21	7,532152E+22	1,946759E+22	9,478911E+22
75	3,766081E+22	3,765925E+22	9,733766E+21	9,734150E+21	7,532006E+22	1,946792E+22	9,478797E+22
76	3,765866E+22	3,765912E+22	9,734854E+21	9,734119E+21	7,531778E+22	1,946897E+22	9,478676E+22
77	3,765964E+22	3,765904E+22	9,734319E+21	9,735161E+21	7,531868E+22	1,946948E+22	9,478816E+22
78	3,765886E+22	3,765788E+22	9,734949E+21	9,734906E+21	7,531674E+22	1,946986E+22	9,478660E+22
79	3,765717E+22	3,765905E+22	9,735453E+21	9,734989E+21	7,531622E+22	1,947044E+22	9,478666E+22
80	3,765909E+22	3,765828E+22	9,734662E+21	9,735451E+21	7,531737E+22	1,947011E+22	9,478749E+22
81	3,765779E+22	3,765770E+22	9,735366E+21	9,734553E+21	7,531549E+22	1,946992E+22	9,478541E+22
82	3,765786E+22	3,765920E+22	9,735009E+21	9,734745E+21	7,531706E+22	1,946975E+22	9,478681E+22
83	3,765962E+22	3,765844E+22	9,734211E+21	9,734583E+21	7,531807E+22	1,946879E+22	9,478686E+22
84	3,765812E+22	3,765909E+22	9,734605E+21	9,733822E+21	7,531722E+22	1,946843E+22	9,478565E+22
85	3,765963E+22	3,766022E+22	9,733609E+21	9,734268E+21	7,531985E+22	1,946788E+22	9,478773E+22
86	3,766048E+22	3,765939E+22	9,733473E+21	9,733610E+21	7,531987E+22	1,946708E+22	9,478695E+22
87	3,765943E+22	3,766080E+22	9,733849E+21	9,733098E+21	7,532022E+22	1,946695E+22	9,478717E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
88	3,766165E+22	3,766079E+22	9,732967E+21	9,733680E+21	7,532244E+22	1,946665E+22	9,478909E+22
89	3,766057E+22	3,765989E+22	9,733629E+21	9,733181E+21	7,532046E+22	1,946681E+22	9,478726E+22
90	3,765935E+22	3,766124E+22	9,733976E+21	9,733666E+21	7,532059E+22	1,946764E+22	9,478823E+22
91	3,766063E+22	3,765988E+22	9,733553E+21	9,734326E+21	7,532052E+22	1,946788E+22	9,478839E+22
92	3,765867E+22	3,765882E+22	9,734658E+21	9,734058E+21	7,531749E+22	1,946872E+22	9,478621E+22
93	3,765878E+22	3,765924E+22	9,734611E+21	9,734938E+21	7,531802E+22	1,946955E+22	9,478757E+22
94	3,765918E+22	3,765737E+22	9,734849E+21	9,735226E+21	7,531655E+22	1,947008E+22	9,478662E+22
95	3,765675E+22	3,765782E+22	9,735908E+21	9,735128E+21	7,531457E+22	1,947104E+22	9,478561E+22
96	3,765774E+22	3,765778E+22	9,735417E+21	9,736233E+21	7,531552E+22	1,947165E+22	9,478717E+22
97	3,765689E+22	3,765605E+22	9,736047E+21	9,735966E+21	7,531294E+22	1,947201E+22	9,478495E+22
98	3,765542E+22	3,765732E+22	9,736531E+21	9,735895E+21	7,531274E+22	1,947243E+22	9,478517E+22
99	3,765743E+22	3,765656E+22	9,735704E+21	9,736337E+21	7,531399E+22	1,947204E+22	9,478603E+22
100	3,765639E+22	3,765585E+22	9,736195E+21	9,735486E+21	7,531224E+22	1,947168E+22	9,478392E+22
101	3,765638E+22	3,765769E+22	9,735730E+21	9,735648E+21	7,531407E+22	1,947138E+22	9,478545E+22
102	3,765791E+22	3,765702E+22	9,735004E+21	9,735606E+21	7,531493E+22	1,947061E+22	9,478554E+22
103	3,765666E+22	3,765784E+22	9,735381E+21	9,734635E+21	7,531450E+22	1,947002E+22	9,478451E+22
104	3,765852E+22	3,765885E+22	9,734480E+21	9,735024E+21	7,531737E+22	1,946950E+22	9,478687E+22
105	3,765923E+22	3,765770E+22	9,734399E+21	9,734408E+21	7,531693E+22	1,946881E+22	9,478574E+22
106	3,765799E+22	3,765938E+22	9,734846E+21	9,733947E+21	7,531737E+22	1,946879E+22	9,478616E+22
107	3,765971E+22	3,765947E+22	9,734031E+21	9,734709E+21	7,531918E+22	1,946874E+22	9,478792E+22
108	3,765875E+22	3,765814E+22	9,734587E+21	9,734340E+21	7,531689E+22	1,946893E+22	9,478582E+22
109	3,765761E+22	3,765934E+22	9,734946E+21	9,734701E+21	7,531695E+22	1,946965E+22	9,478660E+22
110	3,765884E+22	3,765792E+22	9,734645E+21	9,735424E+21	7,531676E+22	1,947007E+22	9,478683E+22
111	3,765708E+22	3,765705E+22	9,735716E+21	9,735007E+21	7,531414E+22	1,947072E+22	9,478486E+22
112	3,765718E+22	3,765757E+22	9,735742E+21	9,735998E+21	7,531475E+22	1,947174E+22	9,478649E+22
113	3,765716E+22	3,765559E+22	9,735974E+21	9,736442E+21	7,531274E+22	1,947242E+22	9,478516E+22
114	3,765471E+22	3,765617E+22	9,737047E+21	9,736303E+21	7,531088E+22	1,947335E+22	9,478423E+22
115	3,765572E+22	3,765603E+22	9,736592E+21	9,737328E+21	7,531175E+22	1,947392E+22	9,478567E+22
116	3,765537E+22	3,765400E+22	9,737016E+21	9,736952E+21	7,530936E+22	1,947397E+22	9,478333E+22
117	3,765403E+22	3,765547E+22	9,737408E+21	9,736699E+21	7,530950E+22	1,947411E+22	9,478361E+22
118	3,765574E+22	3,765501E+22	9,736605E+21	9,737267E+21	7,531076E+22	1,947387E+22	9,478463E+22
119	3,765465E+22	3,765467E+22	9,736990E+21	9,736345E+21	7,530932E+22	1,947333E+22	9,478266E+22
120	3,765487E+22	3,765645E+22	9,736571E+21	9,736551E+21	7,531132E+22	1,947312E+22	9,478444E+22
121	3,765640E+22	3,765539E+22	9,735867E+21	9,736496E+21	7,531179E+22	1,947236E+22	9,478416E+22
122	3,765543E+22	3,765635E+22	9,736274E+21	9,735405E+21	7,531178E+22	1,947168E+22	9,478346E+22
123	3,765724E+22	3,765741E+22	9,735459E+21	9,735809E+21	7,531465E+22	1,947127E+22	9,478592E+22
124	3,765794E+22	3,765609E+22	9,735258E+21	9,735332E+21	7,531403E+22	1,947059E+22	9,478462E+22
125	3,765637E+22	3,765796E+22	9,735712E+21	9,734916E+21	7,531433E+22	1,947063E+22	9,478496E+22
126	3,765769E+22	3,765791E+22	9,735034E+21	9,735834E+21	7,531560E+22	1,947087E+22	9,478647E+22
127	3,765686E+22	3,765649E+22	9,735605E+21	9,735334E+21	7,531336E+22	1,947094E+22	9,478429E+22
128	3,765609E+22	3,765749E+22	9,736042E+21	9,735700E+21	7,531357E+22	1,947174E+22	9,478532E+22
129	3,765710E+22	3,765578E+22	9,735782E+21	9,736501E+21	7,531288E+22	1,947228E+22	9,478516E+22
130	3,765528E+22	3,765529E+22	9,736857E+21	9,736120E+21	7,531057E+22	1,947298E+22	9,478355E+22
131	3,765510E+22	3,765597E+22	9,736924E+21	9,737197E+21	7,531107E+22	1,947412E+22	9,478519E+22
132	3,765528E+22	3,765371E+22	9,737013E+21	9,737660E+21	7,530899E+22	1,947467E+22	9,478366E+22
133	3,765302E+22	3,765433E+22	9,738050E+21	9,737312E+21	7,530735E+22	1,947536E+22	9,478271E+22
134	3,765395E+22	3,765424E+22	9,737658E+21	9,738309E+21	7,530820E+22	1,947597E+22	9,478416E+22
135	3,765379E+22	3,765244E+22	9,737994E+21	9,737788E+21	7,530623E+22	1,947578E+22	9,478201E+22
136	3,765253E+22	3,765398E+22	9,738360E+21	9,737629E+21	7,530651E+22	1,947599E+22	9,478250E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
137	3,765383E+22	3,765340E+22	9,737518E+21	9,738315E+21	7,530724E+22	1,947583E+22	9,478307E+22
138	3,765301E+22	3,765317E+22	9,737867E+21	9,737312E+21	7,530618E+22	1,947518E+22	9,478136E+22
139	3,765342E+22	3,765488E+22	9,737506E+21	9,737408E+21	7,530830E+22	1,947491E+22	9,478322E+22
140	3,765541E+22	3,765367E+22	9,736650E+21	9,737284E+21	7,530908E+22	1,947393E+22	9,478301E+22
141	3,765441E+22	3,765485E+22	9,737047E+21	9,736087E+21	7,530927E+22	1,947313E+22	9,478240E+22
142	3,765560E+22	3,765621E+22	9,736358E+21	9,736675E+21	7,531181E+22	1,947303E+22	9,478484E+22
143	3,765611E+22	3,765504E+22	9,736128E+21	9,736230E+21	7,531114E+22	1,947236E+22	9,478350E+22
144	3,765459E+22	3,765651E+22	9,736697E+21	9,735932E+21	7,531109E+22	1,947263E+22	9,478372E+22
145	3,765572E+22	3,765599E+22	9,736101E+21	9,736907E+21	7,531171E+22	1,947301E+22	9,478472E+22
146	3,765525E+22	3,765454E+22	9,736694E+21	9,736359E+21	7,530979E+22	1,947305E+22	9,478284E+22
147	3,765447E+22	3,765552E+22	9,737216E+21	9,736772E+21	7,530999E+22	1,947399E+22	9,478398E+22
148	3,765551E+22	3,765380E+22	9,736797E+21	9,737710E+21	7,530931E+22	1,947451E+22	9,478382E+22
149	3,765351E+22	3,765355E+22	9,737842E+21	9,737296E+21	7,530706E+22	1,947514E+22	9,478220E+22
150	3,765305E+22	3,765428E+22	9,738035E+21	9,738397E+21	7,530734E+22	1,947643E+22	9,478377E+22
151	3,765348E+22	3,765206E+22	9,738090E+21	9,738630E+21	7,530554E+22	1,947672E+22	9,478226E+22
152	3,765153E+22	3,765257E+22	9,739157E+21	9,738232E+21	7,530410E+22	1,947739E+22	9,478149E+22
153	3,765209E+22	3,765235E+22	9,738762E+21	9,739266E+21	7,530444E+22	1,947803E+22	9,478247E+22
154	3,765191E+22	3,765088E+22	9,739025E+21	9,738782E+21	7,530279E+22	1,947781E+22	9,478059E+22
155	3,765062E+22	3,765245E+22	9,739372E+21	9,738668E+21	7,530307E+22	1,947804E+22	9,478111E+22
156	3,765229E+22	3,765161E+22	9,738341E+21	9,739328E+21	7,530390E+22	1,947767E+22	9,478157E+22
157	3,765182E+22	3,765157E+22	9,738619E+21	9,738110E+21	7,530339E+22	1,947673E+22	9,478012E+22
158	3,765220E+22	3,765343E+22	9,738333E+21	9,738172E+21	7,530563E+22	1,947651E+22	9,478214E+22
159	3,765416E+22	3,765249E+22	9,737456E+21	9,737954E+21	7,530665E+22	1,947541E+22	9,478206E+22
160	3,765303E+22	3,765374E+22	9,737910E+21	9,736948E+21	7,530677E+22	1,947486E+22	9,478163E+22
161	3,765352E+22	3,765478E+22	9,737313E+21	9,737704E+21	7,530829E+22	1,947502E+22	9,478331E+22
162	3,765420E+22	3,765343E+22	9,737140E+21	9,737279E+21	7,530763E+22	1,947442E+22	9,478205E+22
163	3,765292E+22	3,765456E+22	9,737794E+21	9,736951E+21	7,530748E+22	1,947475E+22	9,478222E+22
164	3,765438E+22	3,765377E+22	9,737063E+21	9,737936E+21	7,530815E+22	1,947500E+22	9,478315E+22
165	3,765394E+22	3,765262E+22	9,737623E+21	9,737335E+21	7,530656E+22	1,947496E+22	9,478152E+22
166	3,765267E+22	3,765394E+22	9,738240E+21	9,737895E+21	7,530661E+22	1,947614E+22	9,478275E+22
167	3,765360E+22	3,765246E+22	9,737829E+21	9,738784E+21	7,530606E+22	1,947661E+22	9,478267E+22
168	3,765174E+22	3,765201E+22	9,738974E+21	9,738401E+21	7,530375E+22	1,947737E+22	9,478113E+22
169	3,765095E+22	3,765242E+22	9,739257E+21	9,739464E+21	7,530337E+22	1,947872E+22	9,478209E+22
170	3,765170E+22	3,765021E+22	9,739299E+21	9,739633E+21	7,530191E+22	1,947893E+22	9,478084E+22
171	3,764972E+22	3,765065E+22	9,740363E+21	9,739272E+21	7,530037E+22	1,947964E+22	9,478000E+22
172	3,765030E+22	3,765043E+22	9,739714E+21	9,740415E+21	7,530073E+22	1,948013E+22	9,478086E+22
173	3,765022E+22	3,764913E+22	9,739843E+21	9,739848E+21	7,529935E+22	1,947969E+22	9,477904E+22
174	3,764893E+22	3,765081E+22	9,740227E+21	9,739682E+21	7,529974E+22	1,947991E+22	9,477965E+22
175	3,765106E+22	3,765020E+22	9,739128E+21	9,740067E+21	7,530125E+22	1,947919E+22	9,478045E+22
176	3,765088E+22	3,765019E+22	9,739429E+21	9,738794E+21	7,530107E+22	1,947822E+22	9,477929E+22
177	3,765066E+22	3,765208E+22	9,739233E+21	9,738915E+21	7,530274E+22	1,947815E+22	9,478089E+22
178	3,765246E+22	3,765137E+22	9,738368E+21	9,738792E+21	7,530383E+22	1,947716E+22	9,478099E+22
179	3,765116E+22	3,765234E+22	9,738912E+21	9,737927E+21	7,530350E+22	1,947684E+22	9,478034E+22
180	3,765181E+22	3,765292E+22	9,738200E+21	9,738741E+21	7,530474E+22	1,947694E+22	9,478168E+22
181	3,765281E+22	3,765151E+22	9,738008E+21	9,738223E+21	7,530432E+22	1,947623E+22	9,478055E+22
182	3,765153E+22	3,765269E+22	9,738749E+21	9,737936E+21	7,530423E+22	1,947669E+22	9,478091E+22
183	3,765303E+22	3,765218E+22	9,738013E+21	9,738868E+21	7,530520E+22	1,947688E+22	9,478208E+22
184	3,765244E+22	3,765120E+22	9,738623E+21	9,738429E+21	7,530364E+22	1,947705E+22	9,478069E+22
185	3,765048E+22	3,765235E+22	9,739381E+21	9,739079E+21	7,530283E+22	1,947846E+22	9,478129E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
186	3,765153E+22	3,765080E+22	9,739065E+21	9,739917E+21	7,530233E+22	1,947898E+22	9,478131E+22
187	3,764987E+22	3,765005E+22	9,740292E+21	9,739504E+21	7,529992E+22	1,947980E+22	9,477971E+22
188	3,764920E+22	3,765015E+22	9,740394E+21	9,740550E+21	7,529935E+22	1,948094E+22	9,478030E+22
189	3,764996E+22	3,764821E+22	9,740323E+21	9,740692E+21	7,529817E+22	1,948101E+22	9,477919E+22
190	3,764775E+22	3,764890E+22	9,741319E+21	9,740418E+21	7,529665E+22	1,948174E+22	9,477839E+22
191	3,764850E+22	3,764886E+22	9,740574E+21	9,741409E+21	7,529736E+22	1,948198E+22	9,477934E+22
192	3,764885E+22	3,764766E+22	9,740683E+21	9,740764E+21	7,529651E+22	1,948145E+22	9,477796E+22
193	3,764741E+22	3,764925E+22	9,741135E+21	9,740486E+21	7,529666E+22	1,948162E+22	9,477828E+22
194	3,764979E+22	3,764886E+22	9,740079E+21	9,740773E+21	7,529865E+22	1,948085E+22	9,477950E+22
195	3,764949E+22	3,764887E+22	9,740422E+21	9,739598E+21	7,529836E+22	1,948002E+22	9,477838E+22
196	3,764898E+22	3,765058E+22	9,740060E+21	9,739866E+21	7,529957E+22	1,947993E+22	9,477949E+22
197	3,765077E+22	3,764983E+22	9,739165E+21	9,739762E+21	7,530060E+22	1,947893E+22	9,477952E+22
198	3,764950E+22	3,765060E+22	9,739776E+21	9,738928E+21	7,530010E+22	1,947870E+22	9,477881E+22
199	3,765053E+22	3,765121E+22	9,739053E+21	9,739565E+21	7,530175E+22	1,947862E+22	9,478036E+22
200	3,765176E+22	3,764990E+22	9,738895E+21	9,739085E+21	7,530166E+22	1,947798E+22	9,477964E+22
201	3,764982E+22	3,765115E+22	9,739760E+21	9,738912E+21	7,530097E+22	1,947867E+22	9,477964E+22
202	3,765115E+22	3,765088E+22	9,739115E+21	9,739927E+21	7,530203E+22	1,947904E+22	9,478107E+22
203	3,765042E+22	3,764964E+22	9,739853E+21	9,739597E+21	7,530005E+22	1,947945E+22	9,477950E+22
204	3,764851E+22	3,765036E+22	9,740525E+21	9,740254E+21	7,529887E+22	1,948078E+22	9,477964E+22
205	3,764982E+22	3,764870E+22	9,740178E+21	9,740994E+21	7,529851E+22	1,948117E+22	9,477968E+22
206	3,764806E+22	3,764793E+22	9,741425E+21	9,740625E+21	7,529600E+22	1,948205E+22	9,477805E+22
207	3,764746E+22	3,764832E+22	9,741403E+21	9,741597E+21	7,529578E+22	1,948300E+22	9,477878E+22
208	3,764824E+22	3,764657E+22	9,741255E+21	9,741822E+21	7,529481E+22	1,948308E+22	9,477788E+22
209	3,764569E+22	3,764718E+22	9,742297E+21	9,741523E+21	7,529287E+22	1,948382E+22	9,477669E+22
210	3,764689E+22	3,764727E+22	9,741594E+21	9,742326E+21	7,529416E+22	1,948392E+22	9,477808E+22
211	3,764753E+22	3,764605E+22	9,741731E+21	9,741577E+21	7,529359E+22	1,948331E+22	9,477690E+22
212	3,764613E+22	3,764757E+22	9,742021E+21	9,741267E+21	7,529371E+22	1,948329E+22	9,477699E+22
213	3,764835E+22	3,764746E+22	9,740911E+21	9,741562E+21	7,529581E+22	1,948247E+22	9,477829E+22
214	3,764768E+22	3,764758E+22	9,741257E+21	9,740554E+21	7,529526E+22	1,948181E+22	9,477707E+22
215	3,764728E+22	3,764921E+22	9,740850E+21	9,740746E+21	7,529649E+22	1,948160E+22	9,477809E+22
216	3,764938E+22	3,764836E+22	9,739974E+21	9,740655E+21	7,529774E+22	1,948063E+22	9,477837E+22
217	3,764798E+22	3,764890E+22	9,740684E+21	9,739812E+21	7,529688E+22	1,948050E+22	9,477737E+22
218	3,764922E+22	3,764965E+22	9,740071E+21	9,740423E+21	7,529886E+22	1,948049E+22	9,477936E+22
219	3,765028E+22	3,764844E+22	9,739982E+21	9,740110E+21	7,529873E+22	1,948009E+22	9,477882E+22
220	3,764800E+22	3,764945E+22	9,740742E+21	9,740074E+21	7,529745E+22	1,948082E+22	9,477827E+22
221	3,764924E+22	3,764911E+22	9,740162E+21	9,741081E+21	7,529836E+22	1,948124E+22	9,477960E+22
222	3,764853E+22	3,764769E+22	9,740970E+21	9,740765E+21	7,529622E+22	1,948173E+22	9,477796E+22
223	3,764685E+22	3,764833E+22	9,741607E+21	9,741240E+21	7,529519E+22	1,948285E+22	9,477803E+22
224	3,764827E+22	3,764684E+22	9,741239E+21	9,742004E+21	7,529511E+22	1,948324E+22	9,477836E+22
225	3,764598E+22	3,764611E+22	9,742518E+21	9,741726E+21	7,529209E+22	1,948424E+22	9,477633E+22
226	3,764541E+22	3,764672E+22	9,742520E+21	9,742689E+21	7,529213E+22	1,948521E+22	9,477734E+22
227	3,764634E+22	3,764493E+22	9,742390E+21	9,742928E+21	7,529127E+22	1,948532E+22	9,477659E+22
228	3,764404E+22	3,764529E+22	9,743262E+21	9,742540E+21	7,528933E+22	1,948580E+22	9,477513E+22
229	3,764559E+22	3,764552E+22	9,742539E+21	9,743182E+21	7,529111E+22	1,948572E+22	9,477683E+22
230	3,764615E+22	3,764450E+22	9,742658E+21	9,742447E+21	7,529065E+22	1,948510E+22	9,477575E+22
231	3,764468E+22	3,764626E+22	9,742831E+21	9,742085E+21	7,529093E+22	1,948492E+22	9,477585E+22
232	3,764675E+22	3,764628E+22	9,741669E+21	9,742474E+21	7,529303E+22	1,948414E+22	9,477717E+22
233	3,764572E+22	3,764609E+22	9,742116E+21	9,741521E+21	7,529181E+22	1,948364E+22	9,477545E+22
234	3,764577E+22	3,764765E+22	9,741797E+21	9,741596E+21	7,529342E+22	1,948339E+22	9,477681E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
235	3,764813E+22	3,764668E+22	9,740979E+21	9,741508E+21	7,529481E+22	1,948249E+22	9,477730E+22
236	3,764669E+22	3,764711E+22	9,741554E+21	9,740722E+21	7,529381E+22	1,948228E+22	9,477608E+22
237	3,764780E+22	3,764808E+22	9,740964E+21	9,741377E+21	7,529588E+22	1,948234E+22	9,477822E+22
238	3,764842E+22	3,764696E+22	9,740941E+21	9,741211E+21	7,529538E+22	1,948215E+22	9,477753E+22
239	3,764623E+22	3,764787E+22	9,741718E+21	9,741098E+21	7,529410E+22	1,948282E+22	9,477692E+22
240	3,764760E+22	3,764744E+22	9,741198E+21	9,742082E+21	7,529504E+22	1,948328E+22	9,477832E+22
241	3,764659E+22	3,764578E+22	9,742148E+21	9,741812E+21	7,529237E+22	1,948396E+22	9,477633E+22
242	3,764506E+22	3,764648E+22	9,742851E+21	9,742272E+21	7,529155E+22	1,948512E+22	9,477667E+22
243	3,764629E+22	3,764508E+22	9,742475E+21	9,743201E+21	7,529137E+22	1,948568E+22	9,477704E+22
244	3,764387E+22	3,764413E+22	9,743550E+21	9,743003E+21	7,528800E+22	1,948655E+22	9,477455E+22
245	3,764358E+22	3,764472E+22	9,743554E+21	9,743850E+21	7,528830E+22	1,948740E+22	9,477571E+22
246	3,764470E+22	3,764307E+22	9,743421E+21	9,743988E+21	7,528777E+22	1,948741E+22	9,477518E+22
247	3,764278E+22	3,764359E+22	9,744181E+21	9,743372E+21	7,528637E+22	1,948755E+22	9,477392E+22
248	3,764430E+22	3,764416E+22	9,743416E+21	9,743975E+21	7,528846E+22	1,948739E+22	9,477586E+22
249	3,764424E+22	3,764324E+22	9,743567E+21	9,743343E+21	7,528749E+22	1,948691E+22	9,477439E+22
250	3,764278E+22	3,764501E+22	9,743776E+21	9,742967E+21	7,528779E+22	1,948674E+22	9,477454E+22
251	3,764500E+22	3,764489E+22	9,742643E+21	9,743408E+21	7,528988E+22	1,948605E+22	9,477593E+22
252	3,764425E+22	3,764423E+22	9,742929E+21	9,742430E+21	7,528848E+22	1,948536E+22	9,477384E+22
253	3,764466E+22	3,764577E+22	9,742655E+21	9,742427E+21	7,529044E+22	1,948508E+22	9,477552E+22
254	3,764690E+22	3,764510E+22	9,741850E+21	9,742418E+21	7,529200E+22	1,948427E+22	9,477626E+22
255	3,764535E+22	3,764570E+22	9,742349E+21	9,741644E+21	7,529106E+22	1,948399E+22	9,477505E+22
256	3,764619E+22	3,764682E+22	9,741819E+21	9,742362E+21	7,529301E+22	1,948418E+22	9,477719E+22
257	3,764640E+22	3,764540E+22	9,741987E+21	9,742259E+21	7,529180E+22	1,948425E+22	9,477605E+22
258	3,764445E+22	3,764615E+22	9,742923E+21	9,742058E+21	7,529060E+22	1,948498E+22	9,477558E+22
259	3,764584E+22	3,764563E+22	9,742473E+21	9,743109E+21	7,529147E+22	1,948558E+22	9,477705E+22
260	3,764467E+22	3,764368E+22	9,743274E+21	9,742970E+21	7,528835E+22	1,948624E+22	9,477460E+22
261	3,764312E+22	3,764448E+22	9,743960E+21	9,743493E+21	7,528760E+22	1,948745E+22	9,477505E+22
262	3,764418E+22	3,764320E+22	9,743555E+21	9,744483E+21	7,528738E+22	1,948804E+22	9,477541E+22
263	3,764217E+22	3,764226E+22	9,744513E+21	9,744120E+21	7,528443E+22	1,948863E+22	9,477306E+22
264	3,764219E+22	3,764305E+22	9,744497E+21	9,744804E+21	7,528524E+22	1,948930E+22	9,477454E+22
265	3,764307E+22	3,764146E+22	9,744466E+21	9,744893E+21	7,528452E+22	1,948936E+22	9,477388E+22
266	3,764127E+22	3,764222E+22	9,745257E+21	9,744212E+21	7,528348E+22	1,948947E+22	9,477295E+22
267	3,764249E+22	3,764288E+22	9,744464E+21	9,744927E+21	7,528537E+22	1,948939E+22	9,477476E+22
268	3,764224E+22	3,764159E+22	9,744434E+21	9,744387E+21	7,528382E+22	1,948882E+22	9,477264E+22
269	3,764122E+22	3,764311E+22	9,744635E+21	9,743921E+21	7,528433E+22	1,948856E+22	9,477288E+22
270	3,764359E+22	3,764304E+22	9,743495E+21	9,744287E+21	7,528663E+22	1,948778E+22	9,477441E+22
271	3,764330E+22	3,764255E+22	9,743655E+21	9,743180E+21	7,528585E+22	1,948683E+22	9,477268E+22
272	3,764362E+22	3,764448E+22	9,743388E+21	9,743180E+21	7,528810E+22	1,948657E+22	9,477467E+22
273	3,764513E+22	3,764396E+22	9,742737E+21	9,743319E+21	7,528909E+22	1,948606E+22	9,477515E+22
274	3,764355E+22	3,764454E+22	9,743381E+21	9,742569E+21	7,528809E+22	1,948595E+22	9,477404E+22
275	3,764428E+22	3,764542E+22	9,742982E+21	9,743364E+21	7,528970E+22	1,948635E+22	9,477605E+22
276	3,764452E+22	3,764345E+22	9,743083E+21	9,743343E+21	7,528796E+22	1,948643E+22	9,477439E+22
277	3,764285E+22	3,764394E+22	9,744080E+21	9,743156E+21	7,528680E+22	1,948724E+22	9,477403E+22
278	3,764398E+22	3,764362E+22	9,743615E+21	9,744320E+21	7,528760E+22	1,948794E+22	9,477554E+22
279	3,764288E+22	3,764176E+22	9,744244E+21	9,744213E+21	7,528464E+22	1,948846E+22	9,477309E+22
280	3,764132E+22	3,764270E+22	9,744909E+21	9,744693E+21	7,528401E+22	1,948960E+22	9,477362E+22
281	3,764224E+22	3,764138E+22	9,744646E+21	9,745617E+21	7,528362E+22	1,949026E+22	9,477388E+22
282	3,764065E+22	3,764054E+22	9,745678E+21	9,745036E+21	7,528119E+22	1,949071E+22	9,477190E+22
283	3,764067E+22	3,764154E+22	9,745690E+21	9,745690E+21	7,528221E+22	1,949138E+22	9,477359E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
284	3,764127E+22	3,763979E+22	9,745479E+21	9,745850E+21	7,528106E+22	1,949133E+22	9,477239E+22
285	3,763940E+22	3,764053E+22	9,746236E+21	9,745213E+21	7,527993E+22	1,949145E+22	9,477138E+22
286	3,764045E+22	3,764130E+22	9,745384E+21	9,745942E+21	7,528175E+22	1,949133E+22	9,477307E+22
287	3,764074E+22	3,763983E+22	9,745186E+21	9,745291E+21	7,528057E+22	1,949048E+22	9,477105E+22
288	3,764012E+22	3,764150E+22	9,745350E+21	9,744689E+21	7,528161E+22	1,949004E+22	9,477165E+22
289	3,764233E+22	3,764156E+22	9,744341E+21	9,745060E+21	7,528389E+22	1,948940E+22	9,477329E+22
290	3,764208E+22	3,764138E+22	9,744555E+21	9,743945E+21	7,528346E+22	1,948850E+22	9,477196E+22
291	3,764201E+22	3,764347E+22	9,744344E+21	9,744103E+21	7,528549E+22	1,948845E+22	9,477393E+22
292	3,764318E+22	3,764246E+22	9,743662E+21	9,744367E+21	7,528564E+22	1,948803E+22	9,477367E+22
293	3,764190E+22	3,764263E+22	9,744436E+21	9,743622E+21	7,528453E+22	1,948806E+22	9,477258E+22
294	3,764255E+22	3,764346E+22	9,744087E+21	9,744392E+21	7,528601E+22	1,948848E+22	9,477449E+22
295	3,764308E+22	3,764143E+22	9,744067E+21	9,744383E+21	7,528450E+22	1,948845E+22	9,477295E+22
296	3,764132E+22	3,764213E+22	9,745022E+21	9,744226E+21	7,528345E+22	1,948925E+22	9,477270E+22
297	3,764187E+22	3,764192E+22	9,744682E+21	9,745503E+21	7,528379E+22	1,949018E+22	9,477397E+22
298	3,764098E+22	3,764017E+22	9,745377E+21	9,745322E+21	7,528115E+22	1,949070E+22	9,477185E+22
299	3,763954E+22	3,764106E+22	9,746103E+21	9,745764E+21	7,528060E+22	1,949187E+22	9,477246E+22
300	3,764043E+22	3,763944E+22	9,745793E+21	9,746662E+21	7,527987E+22	1,949246E+22	9,477232E+22
301	3,763915E+22	3,763857E+22	9,746846E+21	9,746050E+21	7,527772E+22	1,949290E+22	9,477062E+22
302	3,763874E+22	3,763984E+22	9,746797E+21	9,746728E+21	7,527857E+22	1,949352E+22	9,477210E+22
303	3,763940E+22	3,763814E+22	9,746351E+21	9,746929E+21	7,527754E+22	1,949328E+22	9,477082E+22
304	3,763768E+22	3,763885E+22	9,747015E+21	9,746202E+21	7,527653E+22	1,949322E+22	9,476975E+22
305	3,763870E+22	3,763957E+22	9,746268E+21	9,746854E+21	7,527826E+22	1,949312E+22	9,477139E+22
306	3,763954E+22	3,763832E+22	9,746082E+21	9,746023E+21	7,527785E+22	1,949210E+22	9,476996E+22
307	3,763897E+22	3,764022E+22	9,746258E+21	9,745447E+21	7,527919E+22	1,949171E+22	9,477090E+22
308	3,764080E+22	3,764020E+22	9,745188E+21	9,745931E+21	7,528100E+22	1,949112E+22	9,477212E+22
309	3,764054E+22	3,763996E+22	9,745453E+21	9,744904E+21	7,528050E+22	1,949036E+22	9,477085E+22
310	3,764015E+22	3,764204E+22	9,745304E+21	9,745072E+21	7,528219E+22	1,949038E+22	9,477256E+22
311	3,764167E+22	3,764074E+22	9,744530E+21	9,745328E+21	7,528241E+22	1,948986E+22	9,477227E+22
312	3,764056E+22	3,764082E+22	9,745333E+21	9,744540E+21	7,528138E+22	1,948987E+22	9,477125E+22
313	3,764090E+22	3,764167E+22	9,745153E+21	9,745395E+21	7,528257E+22	1,949055E+22	9,477312E+22
314	3,764140E+22	3,763983E+22	9,745169E+21	9,745429E+21	7,528123E+22	1,949060E+22	9,477183E+22
315	3,763939E+22	3,764064E+22	9,746136E+21	9,745415E+21	7,528003E+22	1,949155E+22	9,477158E+22
316	3,763978E+22	3,763996E+22	9,745781E+21	9,746724E+21	7,527973E+22	1,949250E+22	9,477224E+22
317	3,763929E+22	3,763800E+22	9,746563E+21	9,746457E+21	7,527729E+22	1,949302E+22	9,477031E+22
318	3,763779E+22	3,763914E+22	9,747302E+21	9,746787E+21	7,527693E+22	1,949409E+22	9,477102E+22
319	3,763887E+22	3,763758E+22	9,746830E+21	9,747674E+21	7,527645E+22	1,949450E+22	9,477096E+22
320	3,763740E+22	3,763696E+22	9,747793E+21	9,747062E+21	7,527437E+22	1,949485E+22	9,476922E+22
321	3,763651E+22	3,763830E+22	9,747798E+21	9,747790E+21	7,527481E+22	1,949559E+22	9,477039E+22
322	3,763749E+22	3,763662E+22	9,747333E+21	9,747880E+21	7,527412E+22	1,949521E+22	9,476933E+22
323	3,763613E+22	3,763732E+22	9,747951E+21	9,747106E+21	7,527346E+22	1,949506E+22	9,476851E+22
324	3,763729E+22	3,763775E+22	9,747152E+21	9,747710E+21	7,527504E+22	1,949486E+22	9,476990E+22
325	3,763850E+22	3,763663E+22	9,746989E+21	9,746873E+21	7,527513E+22	1,949386E+22	9,476899E+22
326	3,763751E+22	3,763892E+22	9,747131E+21	9,746329E+21	7,527644E+22	1,949346E+22	9,476990E+22
327	3,763930E+22	3,763888E+22	9,745931E+21	9,746880E+21	7,527818E+22	1,949281E+22	9,477099E+22
328	3,763908E+22	3,763850E+22	9,746215E+21	9,745807E+21	7,527758E+22	1,949202E+22	9,476960E+22
329	3,763845E+22	3,764038E+22	9,746273E+21	9,745948E+21	7,527883E+22	1,949222E+22	9,477106E+22
330	3,764026E+22	3,763918E+22	9,745574E+21	9,746141E+21	7,527944E+22	1,949171E+22	9,477116E+22
331	3,763908E+22	3,763928E+22	9,746394E+21	9,745489E+21	7,527836E+22	1,949188E+22	9,477025E+22
332	3,763888E+22	3,763987E+22	9,746217E+21	9,746512E+21	7,527875E+22	1,949273E+22	9,477148E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
333	3,763950E+22	3,763797E+22	9,746276E+21	9,746647E+21	7,527747E+22	1,949292E+22	9,477040E+22
334	3,763733E+22	3,763879E+22	9,747270E+21	9,746589E+21	7,527612E+22	1,949386E+22	9,476997E+22
335	3,763812E+22	3,763797E+22	9,746827E+21	9,747848E+21	7,527609E+22	1,949468E+22	9,477076E+22
336	3,763785E+22	3,763609E+22	9,747599E+21	9,747476E+21	7,527394E+22	1,949507E+22	9,476902E+22
337	3,763593E+22	3,763739E+22	9,748462E+21	9,747831E+21	7,527331E+22	1,949629E+22	9,476961E+22
338	3,763693E+22	3,763613E+22	9,747951E+21	9,748717E+21	7,527307E+22	1,949667E+22	9,476973E+22
339	3,763534E+22	3,763549E+22	9,748840E+21	9,748200E+21	7,527083E+22	1,949704E+22	9,476787E+22
340	3,763441E+22	3,763631E+22	9,748804E+21	9,748884E+21	7,527072E+22	1,949769E+22	9,476841E+22
341	3,763607E+22	3,763455E+22	9,748331E+21	9,748848E+21	7,527062E+22	1,949718E+22	9,476780E+22
342	3,763483E+22	3,763559E+22	9,748878E+21	9,747934E+21	7,527042E+22	1,949681E+22	9,476723E+22
343	3,763623E+22	3,763620E+22	9,747914E+21	9,748535E+21	7,527243E+22	1,949645E+22	9,476888E+22
344	3,763722E+22	3,763545E+22	9,747685E+21	9,747678E+21	7,527267E+22	1,949536E+22	9,476803E+22
345	3,763576E+22	3,763781E+22	9,747975E+21	9,747183E+21	7,527357E+22	1,949516E+22	9,476872E+22
346	3,763766E+22	3,763770E+22	9,746852E+21	9,747648E+21	7,527536E+22	1,949450E+22	9,476986E+22
347	3,763754E+22	3,763716E+22	9,747184E+21	9,746662E+21	7,527471E+22	1,949385E+22	9,476855E+22
348	3,763679E+22	3,763852E+22	9,747289E+21	9,746870E+21	7,527531E+22	1,949416E+22	9,476947E+22
349	3,763876E+22	3,763725E+22	9,746652E+21	9,747186E+21	7,527600E+22	1,949384E+22	9,476984E+22
350	3,763719E+22	3,763762E+22	9,747421E+21	9,746634E+21	7,527481E+22	1,949405E+22	9,476887E+22
351	3,763710E+22	3,763800E+22	9,747133E+21	9,747738E+21	7,527511E+22	1,949487E+22	9,476998E+22
352	3,763786E+22	3,763607E+22	9,747214E+21	9,747768E+21	7,527394E+22	1,949498E+22	9,476892E+22
353	3,763560E+22	3,763690E+22	9,748391E+21	9,747634E+21	7,527250E+22	1,949603E+22	9,476853E+22
354	3,763653E+22	3,763632E+22	9,748018E+21	9,748776E+21	7,527286E+22	1,949679E+22	9,476965E+22
355	3,763608E+22	3,763463E+22	9,748777E+21	9,748531E+21	7,527071E+22	1,949731E+22	9,476802E+22
356	3,763363E+22	3,763559E+22	9,749612E+21	9,748985E+21	7,526922E+22	1,949860E+22	9,476781E+22
357	3,763484E+22	3,763421E+22	9,749094E+21	9,749896E+21	7,526905E+22	1,949899E+22	9,476805E+22
358	3,763334E+22	3,763359E+22	9,749893E+21	9,749272E+21	7,526693E+22	1,949917E+22	9,476609E+22
359	3,763301E+22	3,763428E+22	9,749684E+21	9,749865E+21	7,526728E+22	1,949955E+22	9,476683E+22
360	3,763503E+22	3,763282E+22	9,749132E+21	9,749679E+21	7,526785E+22	1,949881E+22	9,476666E+22
361	3,763349E+22	3,763420E+22	9,749755E+21	9,748765E+21	7,526769E+22	1,949852E+22	9,476621E+22
362	3,763473E+22	3,763527E+22	9,748785E+21	9,749335E+21	7,527000E+22	1,949812E+22	9,476812E+22
363	3,763556E+22	3,763446E+22	9,748534E+21	9,748570E+21	7,527002E+22	1,949710E+22	9,476712E+22
364	3,763384E+22	3,763614E+22	9,748915E+21	9,748079E+21	7,526998E+22	1,949699E+22	9,476698E+22
365	3,763617E+22	3,763588E+22	9,747866E+21	9,748522E+21	7,527205E+22	1,949639E+22	9,476844E+22
366	3,763600E+22	3,763541E+22	9,748180E+21	9,747558E+21	7,527141E+22	1,949574E+22	9,476714E+22
367	3,763536E+22	3,763667E+22	9,748167E+21	9,747903E+21	7,527203E+22	1,949607E+22	9,476810E+22
368	3,763718E+22	3,763562E+22	9,747478E+21	9,748252E+21	7,527281E+22	1,949573E+22	9,476854E+22
369	3,763531E+22	3,763601E+22	9,748378E+21	9,747738E+21	7,527132E+22	1,949612E+22	9,476744E+22
370	3,763544E+22	3,763648E+22	9,748187E+21	9,748713E+21	7,527192E+22	1,949690E+22	9,476882E+22
371	3,763630E+22	3,763455E+22	9,748331E+21	9,748777E+21	7,527085E+22	1,949711E+22	9,476796E+22
372	3,763376E+22	3,763495E+22	9,749633E+21	9,748690E+21	7,526872E+22	1,949832E+22	9,476704E+22
373	3,763470E+22	3,763444E+22	9,749308E+21	9,749913E+21	7,526914E+22	1,949922E+22	9,476836E+22
374	3,763381E+22	3,763292E+22	9,749976E+21	9,749761E+21	7,526673E+22	1,949974E+22	9,476647E+22
375	3,763160E+22	3,763349E+22	9,750619E+21	9,750250E+21	7,526509E+22	1,950087E+22	9,476596E+22
376	3,763314E+22	3,763211E+22	9,750021E+21	9,750967E+21	7,526525E+22	1,950099E+22	9,476624E+22
377	3,763184E+22	3,763171E+22	9,750850E+21	9,750210E+21	7,526355E+22	1,950106E+22	9,476461E+22
378	3,763182E+22	3,763280E+22	9,750624E+21	9,750624E+21	7,526462E+22	1,950125E+22	9,476587E+22
379	3,763363E+22	3,763179E+22	9,750026E+21	9,750511E+21	7,526542E+22	1,950054E+22	9,476596E+22
380	3,763161E+22	3,763293E+22	9,750662E+21	9,749669E+21	7,526454E+22	1,950033E+22	9,476487E+22
381	3,763295E+22	3,763382E+22	9,749755E+21	9,750230E+21	7,526677E+22	1,949999E+22	9,476676E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
382	3,763375E+22	3,763299E+22	9,749479E+21	9,749439E+21	7,526673E+22	1,949892E+22	9,476565E+22
383	3,763251E+22	3,763422E+22	9,749737E+21	9,748984E+21	7,526673E+22	1,949872E+22	9,476545E+22
384	3,763497E+22	3,763407E+22	9,748671E+21	9,749387E+21	7,526904E+22	1,949806E+22	9,476710E+22
385	3,763452E+22	3,763384E+22	9,749051E+21	9,748543E+21	7,526836E+22	1,949759E+22	9,476595E+22
386	3,763378E+22	3,763534E+22	9,749063E+21	9,748892E+21	7,526913E+22	1,949795E+22	9,476708E+22
387	3,763551E+22	3,763430E+22	9,748426E+21	9,749321E+21	7,526981E+22	1,949775E+22	9,476756E+22
388	3,763348E+22	3,763411E+22	9,749482E+21	9,748784E+21	7,526759E+22	1,949827E+22	9,476586E+22
389	3,763387E+22	3,763456E+22	9,749434E+21	9,749706E+21	7,526843E+22	1,949914E+22	9,476757E+22
390	3,763447E+22	3,763282E+22	9,749588E+21	9,749822E+21	7,526729E+22	1,949941E+22	9,476670E+22
391	3,763185E+22	3,763300E+22	9,750762E+21	9,749904E+21	7,526485E+22	1,950067E+22	9,476552E+22
392	3,763261E+22	3,763260E+22	9,750357E+21	9,751119E+21	7,526521E+22	1,950148E+22	9,476668E+22
393	3,763163E+22	3,763098E+22	9,751055E+21	9,750967E+21	7,526261E+22	1,950202E+22	9,476463E+22
394	3,762984E+22	3,763167E+22	9,751661E+21	9,751262E+21	7,526151E+22	1,950292E+22	9,476443E+22
395	3,763172E+22	3,763048E+22	9,751002E+21	9,751919E+21	7,526220E+22	1,950292E+22	9,476512E+22
396	3,763029E+22	3,762988E+22	9,751874E+21	9,751135E+21	7,526017E+22	1,950301E+22	9,476318E+22
397	3,763033E+22	3,763134E+22	9,751657E+21	9,751553E+21	7,526167E+22	1,950321E+22	9,476488E+22
398	3,763173E+22	3,763060E+22	9,750977E+21	9,751468E+21	7,526233E+22	1,950245E+22	9,476478E+22
399	3,762994E+22	3,763123E+22	9,751481E+21	9,750666E+21	7,526117E+22	1,950215E+22	9,476332E+22
400	3,763150E+22	3,763206E+22	9,750544E+21	9,751046E+21	7,526357E+22	1,950159E+22	9,476516E+22
401	3,763237E+22	3,763128E+22	9,750324E+21	9,750245E+21	7,526365E+22	1,950057E+22	9,476421E+22
402	3,763133E+22	3,763276E+22	9,750582E+21	9,749743E+21	7,526409E+22	1,950032E+22	9,476441E+22
403	3,763356E+22	3,763292E+22	9,749507E+21	9,750291E+21	7,526647E+22	1,949980E+22	9,476627E+22
404	3,763268E+22	3,763234E+22	9,749987E+21	9,749563E+21	7,526502E+22	1,949955E+22	9,476457E+22
405	3,763210E+22	3,763375E+22	9,750127E+21	9,749900E+21	7,526585E+22	1,950003E+22	9,476588E+22
406	3,763370E+22	3,763274E+22	9,749553E+21	9,750317E+21	7,526645E+22	1,949987E+22	9,476632E+22
407	3,763201E+22	3,763208E+22	9,750563E+21	9,749872E+21	7,526409E+22	1,950043E+22	9,476452E+22
408	3,763226E+22	3,763262E+22	9,750543E+21	9,750754E+21	7,526488E+22	1,950130E+22	9,476618E+22
409	3,763246E+22	3,763110E+22	9,750728E+21	9,751039E+21	7,526356E+22	1,950177E+22	9,476532E+22
410	3,762981E+22	3,763128E+22	9,751838E+21	9,751103E+21	7,526109E+22	1,950294E+22	9,476403E+22
411	3,763055E+22	3,763083E+22	9,751411E+21	9,752309E+21	7,526138E+22	1,950372E+22	9,476510E+22
412	3,762970E+22	3,762879E+22	9,752159E+21	9,752064E+21	7,525849E+22	1,950422E+22	9,476271E+22
413	3,762840E+22	3,762963E+22	9,752793E+21	9,752219E+21	7,525803E+22	1,950501E+22	9,476304E+22
414	3,763012E+22	3,762894E+22	9,752097E+21	9,752844E+21	7,525906E+22	1,950494E+22	9,476401E+22
415	3,762875E+22	3,762826E+22	9,752778E+21	9,752158E+21	7,525701E+22	1,950494E+22	9,476195E+22
416	3,762862E+22	3,762989E+22	9,752498E+21	9,752463E+21	7,525851E+22	1,950496E+22	9,476347E+22
417	3,762994E+22	3,762916E+22	9,751841E+21	9,752368E+21	7,525910E+22	1,950421E+22	9,476331E+22
418	3,762851E+22	3,762974E+22	9,752312E+21	9,751431E+21	7,525824E+22	1,950374E+22	9,476199E+22
419	3,763022E+22	3,763067E+22	9,751376E+21	9,751815E+21	7,526089E+22	1,950319E+22	9,476408E+22
420	3,763090E+22	3,762960E+22	9,751251E+21	9,751117E+21	7,526050E+22	1,950237E+22	9,476287E+22
421	3,762988E+22	3,763131E+22	9,751540E+21	9,750704E+21	7,526119E+22	1,950224E+22	9,476343E+22
422	3,763174E+22	3,763162E+22	9,750477E+21	9,751330E+21	7,526337E+22	1,950181E+22	9,476518E+22
423	3,763111E+22	3,763049E+22	9,750888E+21	9,750671E+21	7,526159E+22	1,950156E+22	9,476315E+22
424	3,763069E+22	3,763189E+22	9,751085E+21	9,750839E+21	7,526258E+22	1,950192E+22	9,476450E+22
425	3,763216E+22	3,763096E+22	9,750619E+21	9,751292E+21	7,526312E+22	1,950191E+22	9,476503E+22
426	3,763039E+22	3,763045E+22	9,751657E+21	9,750878E+21	7,526084E+22	1,950254E+22	9,476338E+22
427	3,763028E+22	3,763118E+22	9,751612E+21	9,751883E+21	7,526146E+22	1,950350E+22	9,476496E+22
428	3,763008E+22	3,762914E+22	9,751892E+21	9,752275E+21	7,525922E+22	1,950417E+22	9,476339E+22
429	3,762780E+22	3,762923E+22	9,753028E+21	9,752266E+21	7,525703E+22	1,950529E+22	9,476233E+22
430	3,762867E+22	3,762889E+22	9,752583E+21	9,753379E+21	7,525756E+22	1,950596E+22	9,476352E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
431	3,762830E+22	3,762659E+22	9,753191E+21	9,753148E+21	7,525489E+22	1,950634E+22	9,476123E+22
432	3,762704E+22	3,762783E+22	9,753772E+21	9,753179E+21	7,525487E+22	1,950695E+22	9,476182E+22
433	3,762837E+22	3,762757E+22	9,753065E+21	9,753878E+21	7,525593E+22	1,950694E+22	9,476287E+22
434	3,762701E+22	3,762697E+22	9,753664E+21	9,753122E+21	7,525399E+22	1,950679E+22	9,476077E+22
435	3,762690E+22	3,762854E+22	9,753358E+21	9,753332E+21	7,525544E+22	1,950669E+22	9,476213E+22
436	3,762824E+22	3,762737E+22	9,752790E+21	9,753196E+21	7,525562E+22	1,950599E+22	9,476160E+22
437	3,762722E+22	3,762803E+22	9,753272E+21	9,752211E+21	7,525525E+22	1,950548E+22	9,476073E+22
438	3,762868E+22	3,762931E+22	9,752329E+21	9,752665E+21	7,525799E+22	1,950499E+22	9,476298E+22
439	3,762944E+22	3,762802E+22	9,752048E+21	9,752157E+21	7,525746E+22	1,950420E+22	9,476166E+22
440	3,762837E+22	3,762975E+22	9,752334E+21	9,751662E+21	7,525812E+22	1,950400E+22	9,476212E+22
441	3,763014E+22	3,763014E+22	9,751376E+21	9,752293E+21	7,526027E+22	1,950367E+22	9,476394E+22
442	3,762981E+22	3,762892E+22	9,751795E+21	9,751545E+21	7,525873E+22	1,950334E+22	9,476207E+22
443	3,762925E+22	3,763036E+22	9,752081E+21	9,751718E+21	7,525961E+22	1,950380E+22	9,476341E+22
444	3,763029E+22	3,762920E+22	9,751777E+21	9,752346E+21	7,525949E+22	1,950412E+22	9,476361E+22
445	3,762840E+22	3,762873E+22	9,752851E+21	9,752055E+21	7,525713E+22	1,950491E+22	9,476204E+22
446	3,762796E+22	3,762943E+22	9,752823E+21	9,753120E+21	7,525739E+22	1,950594E+22	9,476334E+22
447	3,762819E+22	3,762677E+22	9,752978E+21	9,753550E+21	7,525496E+22	1,950653E+22	9,476149E+22
448	3,762627E+22	3,762694E+22	9,754071E+21	9,753322E+21	7,525321E+22	1,950739E+22	9,476060E+22
449	3,762715E+22	3,762699E+22	9,753665E+21	9,754406E+21	7,525414E+22	1,950807E+22	9,476221E+22
450	3,762681E+22	3,762509E+22	9,754190E+21	9,754129E+21	7,525190E+22	1,950832E+22	9,476022E+22
451	3,762524E+22	3,762668E+22	9,754727E+21	9,754156E+21	7,525191E+22	1,950888E+22	9,476079E+22
452	3,762623E+22	3,762605E+22	9,754119E+21	9,754882E+21	7,525227E+22	1,950900E+22	9,476128E+22
453	3,762518E+22	3,762539E+22	9,754713E+21	9,754042E+21	7,525057E+22	1,950875E+22	9,475932E+22
454	3,762516E+22	3,762696E+22	9,754378E+21	9,754187E+21	7,525212E+22	1,950856E+22	9,476068E+22
455	3,762691E+22	3,762538E+22	9,753661E+21	9,754139E+21	7,525229E+22	1,950780E+22	9,476009E+22
456	3,762603E+22	3,762634E+22	9,754057E+21	9,753108E+21	7,525236E+22	1,950716E+22	9,475953E+22
457	3,762719E+22	3,762793E+22	9,753118E+21	9,753655E+21	7,525513E+22	1,950677E+22	9,476190E+22
458	3,762801E+22	3,762669E+22	9,752794E+21	9,753093E+21	7,525470E+22	1,950589E+22	9,476059E+22
459	3,762702E+22	3,762842E+22	9,753127E+21	9,752484E+21	7,525544E+22	1,950561E+22	9,476105E+22
460	3,762858E+22	3,762841E+22	9,752396E+21	9,753109E+21	7,525700E+22	1,950551E+22	9,476250E+22
461	3,762833E+22	3,762734E+22	9,752922E+21	9,752412E+21	7,525567E+22	1,950533E+22	9,476100E+22
462	3,762729E+22	3,762893E+22	9,753268E+21	9,752731E+21	7,525622E+22	1,950600E+22	9,476222E+22
463	3,762821E+22	3,762728E+22	9,752859E+21	9,753603E+21	7,525549E+22	1,950646E+22	9,476195E+22
464	3,762643E+22	3,762667E+22	9,753901E+21	9,753258E+21	7,525310E+22	1,950716E+22	9,476025E+22
465	3,762603E+22	3,762738E+22	9,753917E+21	9,754302E+21	7,525341E+22	1,950822E+22	9,476162E+22
466	3,762669E+22	3,762481E+22	9,754005E+21	9,754620E+21	7,525150E+22	1,950862E+22	9,476013E+22
467	3,762486E+22	3,762525E+22	9,755091E+21	9,754312E+21	7,525011E+22	1,950940E+22	9,475951E+22
468	3,762531E+22	3,762534E+22	9,754830E+21	9,755482E+21	7,525065E+22	1,951031E+22	9,476096E+22
469	3,762486E+22	3,762372E+22	9,755328E+21	9,755230E+21	7,524857E+22	1,951056E+22	9,475913E+22
470	3,762303E+22	3,762524E+22	9,755857E+21	9,755223E+21	7,524827E+22	1,951108E+22	9,475935E+22
471	3,762444E+22	3,762398E+22	9,755100E+21	9,755936E+21	7,524842E+22	1,951104E+22	9,475945E+22
472	3,762381E+22	3,762329E+22	9,755600E+21	9,754902E+21	7,524710E+22	1,951050E+22	9,475761E+22
473	3,762378E+22	3,762522E+22	9,755254E+21	9,755052E+21	7,524900E+22	1,951031E+22	9,475931E+22
474	3,762566E+22	3,762400E+22	9,754389E+21	9,755000E+21	7,524966E+22	1,950939E+22	9,475905E+22
475	3,762461E+22	3,762522E+22	9,754737E+21	9,753947E+21	7,524982E+22	1,950868E+22	9,475851E+22
476	3,762551E+22	3,762657E+22	9,754002E+21	9,754516E+21	7,525208E+22	1,950852E+22	9,476060E+22
477	3,762654E+22	3,762537E+22	9,753754E+21	9,753887E+21	7,525191E+22	1,950764E+22	9,475955E+22
478	3,762543E+22	3,762704E+22	9,754203E+21	9,753290E+21	7,525247E+22	1,950749E+22	9,475996E+22
479	3,762705E+22	3,762653E+22	9,753445E+21	9,754098E+21	7,525358E+22	1,950754E+22	9,476112E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
480	3,762664E+22	3,762554E+22	9,753956E+21	9,753506E+21	7,525218E+22	1,950746E+22	9,475964E+22
481	3,762520E+22	3,762721E+22	9,754329E+21	9,753990E+21	7,525241E+22	1,950832E+22	9,476073E+22
482	3,762630E+22	3,762538E+22	9,753846E+21	9,754838E+21	7,525168E+22	1,950868E+22	9,476036E+22
483	3,762479E+22	3,762473E+22	9,754871E+21	9,754342E+21	7,524952E+22	1,950921E+22	9,475874E+22
484	3,762436E+22	3,762527E+22	9,755082E+21	9,755347E+21	7,524963E+22	1,951043E+22	9,476006E+22
485	3,762508E+22	3,762316E+22	9,755210E+21	9,755638E+21	7,524824E+22	1,951085E+22	9,475909E+22
486	3,762289E+22	3,762389E+22	9,756317E+21	9,755401E+21	7,524678E+22	1,951172E+22	9,475850E+22
487	3,762321E+22	3,762353E+22	9,755955E+21	9,756679E+21	7,524674E+22	1,951263E+22	9,475937E+22
488	3,762292E+22	3,762186E+22	9,756374E+21	9,756313E+21	7,524479E+22	1,951269E+22	9,475748E+22
489	3,762121E+22	3,762334E+22	9,756852E+21	9,756222E+21	7,524455E+22	1,951307E+22	9,475762E+22
490	3,762301E+22	3,762212E+22	9,755954E+21	9,756814E+21	7,524513E+22	1,951277E+22	9,475790E+22
491	3,762262E+22	3,762174E+22	9,756356E+21	9,755698E+21	7,524436E+22	1,951205E+22	9,475641E+22
492	3,762226E+22	3,762372E+22	9,756139E+21	9,755942E+21	7,524598E+22	1,951208E+22	9,475806E+22
493	3,762407E+22	3,762291E+22	9,755272E+21	9,755898E+21	7,524698E+22	1,951117E+22	9,475815E+22
494	3,762295E+22	3,762405E+22	9,755670E+21	9,754821E+21	7,524700E+22	1,951049E+22	9,475749E+22
495	3,762405E+22	3,762478E+22	9,754921E+21	9,755394E+21	7,524883E+22	1,951032E+22	9,475914E+22
496	3,762527E+22	3,762361E+22	9,754681E+21	9,754703E+21	7,524888E+22	1,950938E+22	9,475827E+22
497	3,762385E+22	3,762542E+22	9,755201E+21	9,754241E+21	7,524927E+22	1,950944E+22	9,475871E+22
498	3,762531E+22	3,762502E+22	9,754366E+21	9,755162E+21	7,525034E+22	1,950953E+22	9,475986E+22
499	3,762480E+22	3,762401E+22	9,754847E+21	9,754610E+21	7,524880E+22	1,950946E+22	9,475826E+22
500	3,762320E+22	3,762526E+22	9,755430E+21	9,755137E+21	7,524846E+22	1,951057E+22	9,475903E+22
501	3,762458E+22	3,762359E+22	9,754984E+21	9,755899E+21	7,524817E+22	1,951088E+22	9,475905E+22
502	3,762314E+22	3,762297E+22	9,756073E+21	9,755384E+21	7,524611E+22	1,951146E+22	9,475757E+22
503	3,762275E+22	3,762323E+22	9,756262E+21	9,756496E+21	7,524598E+22	1,951276E+22	9,475874E+22
504	3,762332E+22	3,762137E+22	9,756346E+21	9,756806E+21	7,524468E+22	1,951315E+22	9,475784E+22
505	3,762072E+22	3,762221E+22	9,757453E+21	9,756632E+21	7,524293E+22	1,951409E+22	9,475701E+22
506	3,762126E+22	3,762168E+22	9,756952E+21	9,757783E+21	7,524295E+22	1,951474E+22	9,475768E+22
507	3,762129E+22	3,761996E+22	9,757279E+21	9,757222E+21	7,524125E+22	1,951450E+22	9,475575E+22
508	3,761959E+22	3,762136E+22	9,757872E+21	9,757095E+21	7,524095E+22	1,951497E+22	9,475592E+22
509	3,762150E+22	3,762068E+22	9,756927E+21	9,757650E+21	7,524218E+22	1,951458E+22	9,475676E+22
510	3,762094E+22	3,762061E+22	9,757294E+21	9,756610E+21	7,524154E+22	1,951390E+22	9,475545E+22
511	3,762060E+22	3,762217E+22	9,757009E+21	9,756934E+21	7,524277E+22	1,951394E+22	9,475671E+22
512	3,762259E+22	3,762138E+22	9,756128E+21	9,756779E+21	7,524397E+22	1,951291E+22	9,475687E+22
513	3,762148E+22	3,762252E+22	9,756565E+21	9,755685E+21	7,524400E+22	1,951225E+22	9,475625E+22
514	3,762278E+22	3,762317E+22	9,755761E+21	9,756212E+21	7,524595E+22	1,951197E+22	9,475792E+22
515	3,762395E+22	3,762215E+22	9,755510E+21	9,755569E+21	7,524610E+22	1,951108E+22	9,475718E+22
516	3,762204E+22	3,762381E+22	9,756208E+21	9,755314E+21	7,524585E+22	1,951152E+22	9,475737E+22
517	3,762333E+22	3,762359E+22	9,755409E+21	9,756273E+21	7,524692E+22	1,951168E+22	9,475860E+22
518	3,762294E+22	3,762233E+22	9,755947E+21	9,755728E+21	7,524527E+22	1,951168E+22	9,475695E+22
519	3,762161E+22	3,762294E+22	9,756534E+21	9,756237E+21	7,524455E+22	1,951277E+22	9,475732E+22
520	3,762317E+22	3,762153E+22	9,756111E+21	9,756925E+21	7,524469E+22	1,951304E+22	9,475773E+22
521	3,762143E+22	3,762122E+22	9,757226E+21	9,756498E+21	7,524265E+22	1,951372E+22	9,475638E+22
522	3,762080E+22	3,762160E+22	9,757328E+21	9,757643E+21	7,524240E+22	1,951497E+22	9,475737E+22
523	3,762129E+22	3,761982E+22	9,757356E+21	9,757906E+21	7,524112E+22	1,951526E+22	9,475638E+22
524	3,761858E+22	3,762028E+22	9,758604E+21	9,757725E+21	7,523886E+22	1,951633E+22	9,475519E+22
525	3,761935E+22	3,761997E+22	9,758071E+21	9,758726E+21	7,523931E+22	1,951680E+22	9,475611E+22
526	3,761964E+22	3,761826E+22	9,758362E+21	9,758162E+21	7,523790E+22	1,951652E+22	9,475442E+22
527	3,761806E+22	3,761937E+22	9,758851E+21	9,758121E+21	7,523743E+22	1,951697E+22	9,475440E+22
528	3,761998E+22	3,761912E+22	9,757816E+21	9,758673E+21	7,523910E+22	1,951649E+22	9,475559E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
529	3,761927E+22	3,761919E+22	9,758143E+21	9,757639E+21	7,523846E+22	1,951578E+22	9,475424E+22
530	3,761924E+22	3,762062E+22	9,757768E+21	9,757807E+21	7,523986E+22	1,951558E+22	9,475543E+22
531	3,762145E+22	3,761990E+22	9,756860E+21	9,757468E+21	7,524135E+22	1,951433E+22	9,475568E+22
532	3,762013E+22	3,762092E+22	9,757502E+21	9,756457E+21	7,524105E+22	1,951396E+22	9,475501E+22
533	3,762116E+22	3,762199E+22	9,756739E+21	9,757026E+21	7,524315E+22	1,951377E+22	9,475692E+22
534	3,762207E+22	3,762094E+22	9,756529E+21	9,756581E+21	7,524301E+22	1,951311E+22	9,475611E+22
535	3,762016E+22	3,762191E+22	9,757222E+21	9,756459E+21	7,524208E+22	1,951368E+22	9,475576E+22
536	3,762170E+22	3,762160E+22	9,756441E+21	9,757346E+21	7,524330E+22	1,951379E+22	9,475709E+22
537	3,762132E+22	3,762038E+22	9,757013E+21	9,756794E+21	7,524170E+22	1,951381E+22	9,475551E+22
538	3,762023E+22	3,762101E+22	9,757537E+21	9,757262E+21	7,524124E+22	1,951480E+22	9,475604E+22
539	3,762161E+22	3,761989E+22	9,757123E+21	9,757957E+21	7,524150E+22	1,951508E+22	9,475658E+22
540	3,761932E+22	3,761958E+22	9,758421E+21	9,757719E+21	7,523890E+22	1,951614E+22	9,475504E+22
541	3,761848E+22	3,762012E+22	9,758536E+21	9,758795E+21	7,523860E+22	1,951733E+22	9,475594E+22
542	3,761917E+22	3,761804E+22	9,758574E+21	9,759040E+21	7,523721E+22	1,951761E+22	9,475482E+22
543	3,761678E+22	3,761786E+22	9,759735E+21	9,758817E+21	7,523465E+22	1,951855E+22	9,475320E+22
544	3,761781E+22	3,761784E+22	9,759127E+21	9,759722E+21	7,523565E+22	1,951885E+22	9,475450E+22
545	3,761799E+22	3,761658E+22	9,759331E+21	9,759208E+21	7,523456E+22	1,951854E+22	9,475310E+22
546	3,761653E+22	3,761785E+22	9,759639E+21	9,759132E+21	7,523438E+22	1,951877E+22	9,475315E+22
547	3,761854E+22	3,761782E+22	9,758556E+21	9,759530E+21	7,523636E+22	1,951809E+22	9,475444E+22
548	3,761778E+22	3,761774E+22	9,759028E+21	9,758466E+21	7,523552E+22	1,951749E+22	9,475301E+22
549	3,761779E+22	3,761943E+22	9,758688E+21	9,758467E+21	7,523722E+22	1,951716E+22	9,475437E+22
550	3,762008E+22	3,761866E+22	9,757834E+21	9,758230E+21	7,523875E+22	1,951606E+22	9,475481E+22
551	3,761857E+22	3,761914E+22	9,758466E+21	9,757425E+21	7,523771E+22	1,951589E+22	9,475360E+22
552	3,761938E+22	3,762041E+22	9,757699E+21	9,758091E+21	7,523979E+22	1,951579E+22	9,475558E+22
553	3,762020E+22	3,761925E+22	9,757482E+21	9,757723E+21	7,523945E+22	1,951521E+22	9,475466E+22
554	3,761868E+22	3,761988E+22	9,758089E+21	9,757503E+21	7,523855E+22	1,951559E+22	9,475415E+22
555	3,762044E+22	3,761976E+22	9,757328E+21	9,758233E+21	7,524020E+22	1,951556E+22	9,475576E+22
556	3,761982E+22	3,761859E+22	9,758099E+21	9,757786E+21	7,523841E+22	1,951588E+22	9,475430E+22
557	3,761832E+22	3,761974E+22	9,758693E+21	9,758262E+21	7,523806E+22	1,951695E+22	9,475502E+22
558	3,761945E+22	3,761858E+22	9,758342E+21	9,759128E+21	7,523803E+22	1,951747E+22	9,475550E+22
559	3,761707E+22	3,761748E+22	9,759648E+21	9,758985E+21	7,523455E+22	1,951863E+22	9,475319E+22
560	3,761647E+22	3,761798E+22	9,759733E+21	9,759947E+21	7,523445E+22	1,951968E+22	9,475413E+22
561	3,761732E+22	3,761589E+22	9,759709E+21	9,760160E+21	7,523321E+22	1,951987E+22	9,475308E+22
562	3,761537E+22	3,761570E+22	9,760677E+21	9,759874E+21	7,523107E+22	1,952055E+22	9,475162E+22
563	3,761642E+22	3,761617E+22	9,759973E+21	9,760693E+21	7,523260E+22	1,952067E+22	9,475326E+22
564	3,761627E+22	3,761514E+22	9,760260E+21	9,760263E+21	7,523141E+22	1,952052E+22	9,475193E+22
565	3,761482E+22	3,761672E+22	9,760562E+21	9,75997E+21	7,523154E+22	1,952056E+22	9,475210E+22
566	3,761704E+22	3,761652E+22	9,759533E+21	9,760320E+21	7,523357E+22	1,951985E+22	9,475342E+22
567	3,761637E+22	3,761594E+22	9,759993E+21	9,759266E+21	7,523231E+22	1,951926E+22	9,475156E+22
568	3,761637E+22	3,761781E+22	9,759643E+21	9,759256E+21	7,523418E+22	1,951890E+22	9,475308E+22
569	3,761826E+22	3,761723E+22	9,758770E+21	9,759193E+21	7,523549E+22	1,951796E+22	9,475345E+22
570	3,761689E+22	3,761752E+22	9,759241E+21	9,758477E+21	7,523441E+22	1,951772E+22	9,475213E+22
571	3,761784E+22	3,761875E+22	9,758477E+21	9,759038E+21	7,523659E+22	1,951752E+22	9,475411E+22
572	3,761865E+22	3,761750E+22	9,758426E+21	9,758714E+21	7,523615E+22	1,951714E+22	9,475329E+22
573	3,761723E+22	3,761841E+22	9,759082E+21	9,758351E+21	7,523565E+22	1,951743E+22	9,475308E+22
574	3,761897E+22	3,761831E+22	9,758451E+21	9,759199E+21	7,523729E+22	1,951765E+22	9,475494E+22
575	3,761797E+22	3,761678E+22	9,759265E+21	9,758971E+21	7,523475E+22	1,951824E+22	9,475299E+22
576	3,761620E+22	3,761800E+22	9,759897E+21	9,759498E+21	7,523420E+22	1,951939E+22	9,475359E+22
577	3,761719E+22	3,761666E+22	9,759565E+21	9,760399E+21	7,523384E+22	1,951996E+22	9,475381E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
578	3,761531E+22	3,761512E+22	9,760708E+21	9,760155E+21	7,523043E+22	1,952086E+22	9,475129E+22
579	3,761497E+22	3,761580E+22	9,760726E+21	9,760918E+21	7,523078E+22	1,952164E+22	9,475242E+22
580	3,761569E+22	3,761399E+22	9,760772E+21	9,761210E+21	7,522968E+22	1,952198E+22	9,475166E+22
581	3,761356E+22	3,761443E+22	9,761675E+21	9,760835E+21	7,522799E+22	1,952251E+22	9,475050E+22
582	3,761466E+22	3,761502E+22	9,761003E+21	9,761705E+21	7,522967E+22	1,952271E+22	9,475238E+22
583	3,761450E+22	3,761344E+22	9,761270E+21	9,761254E+21	7,522794E+22	1,952252E+22	9,475046E+22
584	3,761323E+22	3,761511E+22	9,761562E+21	9,760829E+21	7,522834E+22	1,952239E+22	9,475074E+22
585	3,761549E+22	3,761495E+22	9,760501E+21	9,761136E+21	7,523043E+22	1,952164E+22	9,475207E+22
586	3,761503E+22	3,761415E+22	9,760791E+21	9,760149E+21	7,522918E+22	1,952094E+22	9,475011E+22
587	3,761488E+22	3,761634E+22	9,760381E+21	9,760147E+21	7,523122E+22	1,952053E+22	9,475175E+22
588	3,761648E+22	3,761577E+22	9,759608E+21	9,760254E+21	7,523225E+22	1,951986E+22	9,475211E+22
589	3,761525E+22	3,761615E+22	9,760088E+21	9,759387E+21	7,523141E+22	1,951948E+22	9,475088E+22
590	3,761655E+22	3,761721E+22	9,759437E+21	9,759916E+21	7,523376E+22	1,951935E+22	9,475311E+22
591	3,761729E+22	3,761557E+22	9,759446E+21	9,759636E+21	7,523286E+22	1,951908E+22	9,475194E+22
592	3,761573E+22	3,761678E+22	9,760185E+21	9,759306E+21	7,523251E+22	1,951949E+22	9,475200E+22
593	3,761694E+22	3,761683E+22	9,759616E+21	9,760318E+21	7,523377E+22	1,951993E+22	9,475371E+22
594	3,761597E+22	3,761495E+22	9,760327E+21	9,760213E+21	7,523092E+22	1,952054E+22	9,475146E+22
595	3,761426E+22	3,761606E+22	9,760951E+21	9,760615E+21	7,523032E+22	1,952157E+22	9,475189E+22
596	3,761521E+22	3,761460E+22	9,760724E+21	9,761555E+21	7,522981E+22	1,952228E+22	9,475209E+22
597	3,761359E+22	3,761331E+22	9,761816E+21	9,761151E+21	7,522689E+22	1,952297E+22	9,474986E+22
598	3,761339E+22	3,761406E+22	9,761874E+21	9,761977E+21	7,522745E+22	1,952385E+22	9,475130E+22
599	3,761378E+22	3,761219E+22	9,761880E+21	9,762396E+21	7,522597E+22	1,952428E+22	9,475024E+22
600	3,761168E+22	3,761285E+22	9,762734E+21	9,761958E+21	7,522453E+22	1,952469E+22	9,474922E+22
601	3,761272E+22	3,761336E+22	9,762078E+21	9,762736E+21	7,522608E+22	1,952481E+22	9,475089E+22
602	3,761307E+22	3,761154E+22	9,762143E+21	9,762163E+21	7,522461E+22	1,952431E+22	9,474891E+22
603	3,761197E+22	3,761338E+22	9,762363E+21	9,761552E+21	7,522535E+22	1,952391E+22	9,474926E+22
604	3,761388E+22	3,761347E+22	9,761375E+21	9,761994E+21	7,522735E+22	1,952337E+22	9,475072E+22
605	3,761331E+22	3,761304E+22	9,761597E+21	9,760992E+21	7,522635E+22	1,952259E+22	9,474894E+22
606	3,761328E+22	3,761508E+22	9,761259E+21	9,761082E+21	7,522835E+22	1,952234E+22	9,475070E+22
607	3,761486E+22	3,761404E+22	9,760529E+21	9,761224E+21	7,522890E+22	1,952175E+22	9,475065E+22
608	3,761393E+22	3,761449E+22	9,761035E+21	9,760254E+21	7,522841E+22	1,952129E+22	9,474970E+22
609	3,761515E+22	3,761559E+22	9,760485E+21	9,760803E+21	7,523074E+22	1,952129E+22	9,475202E+22
610	3,761593E+22	3,761382E+22	9,760392E+21	9,760659E+21	7,522975E+22	1,952105E+22	9,475080E+22
611	3,761401E+22	3,761525E+22	9,761155E+21	9,760368E+21	7,522926E+22	1,952152E+22	9,475078E+22
612	3,761476E+22	3,761522E+22	9,760738E+21	9,761549E+21	7,522998E+22	1,952229E+22	9,475227E+22
613	3,761390E+22	3,761323E+22	9,761459E+21	9,761315E+21	7,522713E+22	1,952277E+22	9,474991E+22
614	3,761257E+22	3,761410E+22	9,762146E+21	9,761698E+21	7,522667E+22	1,952384E+22	9,475051E+22
615	3,761342E+22	3,761233E+22	9,761915E+21	9,762674E+21	7,522574E+22	1,952459E+22	9,475033E+22
616	3,761178E+22	3,761142E+22	9,762965E+21	9,762264E+21	7,522320E+22	1,952523E+22	9,474843E+22
617	3,761134E+22	3,761245E+22	9,763013E+21	9,763144E+21	7,522379E+22	1,952616E+22	9,474994E+22
618	3,761196E+22	3,761036E+22	9,762842E+21	9,763556E+21	7,522232E+22	1,952640E+22	9,474871E+22
619	3,761008E+22	3,761113E+22	9,763645E+21	9,762887E+21	7,522121E+22	1,952653E+22	9,474774E+22
620	3,761109E+22	3,761171E+22	9,763053E+21	9,763620E+21	7,522280E+22	1,952667E+22	9,474947E+22
621	3,761158E+22	3,761014E+22	9,763047E+21	9,762904E+21	7,522172E+22	1,952595E+22	9,474767E+22
622	3,761056E+22	3,761201E+22	9,763280E+21	9,762405E+21	7,522257E+22	1,952568E+22	9,474826E+22
623	3,761203E+22	3,761192E+22	9,762277E+21	9,763005E+21	7,522395E+22	1,952528E+22	9,474923E+22
624	3,761163E+22	3,761154E+22	9,762484E+21	9,761983E+21	7,522318E+22	1,952447E+22	9,474764E+22
625	3,761174E+22	3,761341E+22	9,762216E+21	9,762009E+21	7,522515E+22	1,952422E+22	9,474937E+22
626	3,761375E+22	3,761215E+22	9,761358E+21	9,762107E+21	7,522590E+22	1,952346E+22	9,474937E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
627	3,761284E+22	3,761286E+22	9,761871E+21	9,761039E+21	7,522570E+22	1,952291E+22	9,474861E+22
628	3,761345E+22	3,761424E+22	9,761486E+21	9,761772E+21	7,522769E+22	1,952326E+22	9,475094E+22
629	3,761397E+22	3,761270E+22	9,761403E+21	9,761675E+21	7,522666E+22	1,952308E+22	9,474974E+22
630	3,761207E+22	3,761370E+22	9,762292E+21	9,761501E+21	7,522577E+22	1,952379E+22	9,474956E+22
631	3,761258E+22	3,761316E+22	9,761948E+21	9,762731E+21	7,522573E+22	1,952468E+22	9,475041E+22
632	3,761210E+22	3,761112E+22	9,762645E+21	9,762433E+21	7,522322E+22	1,952508E+22	9,474829E+22
633	3,761077E+22	3,761192E+22	9,763374E+21	9,762827E+21	7,522269E+22	1,952620E+22	9,474889E+22
634	3,761177E+22	3,761021E+22	9,762954E+21	9,763901E+21	7,522198E+22	1,952685E+22	9,474883E+22
635	3,761005E+22	3,760966E+22	9,763921E+21	9,763419E+21	7,521971E+22	1,952734E+22	9,474705E+22
636	3,760935E+22	3,761082E+22	9,764072E+21	9,764308E+21	7,522016E+22	1,952838E+22	9,474854E+22
637	3,761022E+22	3,760887E+22	9,763852E+21	9,764464E+21	7,521909E+22	1,952832E+22	9,474741E+22
638	3,760868E+22	3,760951E+22	9,764677E+21	9,763720E+21	7,521819E+22	1,952840E+22	9,474659E+22
639	3,760936E+22	3,760995E+22	9,764091E+21	9,764476E+21	7,521931E+22	1,952857E+22	9,474788E+22
640	3,760984E+22	3,760867E+22	9,764015E+21	9,763809E+21	7,521852E+22	1,952782E+22	9,474634E+22
641	3,760868E+22	3,761055E+22	9,764244E+21	9,763398E+21	7,521923E+22	1,952764E+22	9,474687E+22
642	3,761048E+22	3,761017E+22	9,763067E+21	9,764024E+21	7,522065E+22	1,952709E+22	9,474774E+22
643	3,761041E+22	3,760990E+22	9,763221E+21	9,762820E+21	7,522031E+22	1,952604E+22	9,474635E+22
644	3,761050E+22	3,761189E+22	9,763070E+21	9,762846E+21	7,522239E+22	1,952592E+22	9,474830E+22
645	3,761250E+22	3,761090E+22	9,762233E+21	9,762854E+21	7,522340E+22	1,952509E+22	9,474848E+22
646	3,761145E+22	3,761164E+22	9,762851E+21	9,761981E+21	7,522310E+22	1,952483E+22	9,474793E+22
647	3,761134E+22	3,761270E+22	9,762564E+21	9,762890E+21	7,522404E+22	1,952545E+22	9,474949E+22
648	3,761187E+22	3,761097E+22	9,762540E+21	9,762836E+21	7,522283E+22	1,952538E+22	9,474821E+22
649	3,761013E+22	3,761160E+22	9,763503E+21	9,762638E+21	7,522173E+22	1,952614E+22	9,474787E+22
650	3,761101E+22	3,761072E+22	9,763002E+21	9,763860E+21	7,522173E+22	1,952686E+22	9,474859E+22
651	3,761063E+22	3,760900E+22	9,763646E+21	9,763480E+21	7,521963E+22	1,952713E+22	9,474676E+22
652	3,760892E+22	3,761019E+22	9,764444E+21	9,763995E+21	7,521911E+22	1,952844E+22	9,474755E+22
653	3,760980E+22	3,760883E+22	9,764000E+21	9,764989E+21	7,521863E+22	1,952899E+22	9,474762E+22
654	3,760829E+22	3,760816E+22	9,765033E+21	9,764506E+21	7,521646E+22	1,952954E+22	9,474600E+22
655	3,760732E+22	3,760901E+22	9,765245E+21	9,765319E+21	7,521633E+22	1,953056E+22	9,474690E+22
656	3,760851E+22	3,760714E+22	9,764990E+21	9,765386E+21	7,521565E+22	1,953038E+22	9,474602E+22
657	3,760697E+22	3,760771E+22	9,765803E+21	9,764668E+21	7,521467E+22	1,953047E+22	9,474514E+22
658	3,760766E+22	3,760811E+22	9,764978E+21	9,765539E+21	7,521578E+22	1,953052E+22	9,474629E+22
659	3,760821E+22	3,760707E+22	9,764777E+21	9,764835E+21	7,521528E+22	1,952961E+22	9,474490E+22
660	3,760703E+22	3,760895E+22	9,765065E+21	9,764420E+21	7,521599E+22	1,952949E+22	9,474547E+22
661	3,760925E+22	3,760876E+22	9,763859E+21	9,764799E+21	7,521801E+22	1,952866E+22	9,474667E+22
662	3,760952E+22	3,760846E+22	9,764055E+21	9,763546E+21	7,521799E+22	1,952760E+22	9,474559E+22
663	3,760899E+22	3,761043E+22	9,764028E+21	9,763636E+21	7,521942E+22	1,952766E+22	9,474708E+22
664	3,761078E+22	3,760970E+22	9,763224E+21	9,763755E+21	7,522048E+22	1,952698E+22	9,474746E+22
665	3,760942E+22	3,761014E+22	9,763957E+21	9,763046E+21	7,521956E+22	1,952700E+22	9,474656E+22
666	3,760940E+22	3,761073E+22	9,763575E+21	9,764031E+21	7,522013E+22	1,952761E+22	9,474774E+22
667	3,761025E+22	3,760890E+22	9,763521E+21	9,763890E+21	7,521915E+22	1,952741E+22	9,474656E+22
668	3,760851E+22	3,760953E+22	9,764564E+21	9,763732E+21	7,521803E+22	1,952830E+22	9,474633E+22
669	3,760948E+22	3,760896E+22	9,764042E+21	9,764875E+21	7,521844E+22	1,952892E+22	9,474735E+22
670	3,760904E+22	3,760743E+22	9,764711E+21	9,764625E+21	7,521647E+22	1,952934E+22	9,474581E+22
671	3,760671E+22	3,760853E+22	9,765610E+21	9,765215E+21	7,521525E+22	1,953083E+22	9,474607E+22
672	3,760775E+22	3,760716E+22	9,765221E+21	9,766128E+21	7,521491E+22	1,953135E+22	9,474626E+22
673	3,760641E+22	3,760624E+22	9,766303E+21	9,765570E+21	7,521266E+22	1,953187E+22	9,474453E+22
674	3,760566E+22	3,760686E+22	9,766308E+21	9,766333E+21	7,521252E+22	1,953264E+22	9,474516E+22
675	3,760690E+22	3,760527E+22	9,765931E+21	9,766345E+21	7,521217E+22	1,953228E+22	9,474445E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
676	3,760512E+22	3,760610E+22	9,766702E+21	9,765738E+21	7,521122E+22	1,953244E+22	9,474366E+22
677	3,760594E+22	3,760670E+22	9,765788E+21	9,766475E+21	7,521264E+22	1,953226E+22	9,474490E+22
678	3,760689E+22	3,760567E+22	9,765587E+21	9,765724E+21	7,521256E+22	1,953131E+22	9,474387E+22
679	3,760560E+22	3,760739E+22	9,765934E+21	9,765218E+21	7,521299E+22	1,953115E+22	9,474414E+22
680	3,760801E+22	3,760735E+22	9,764793E+21	9,765515E+21	7,521536E+22	1,953031E+22	9,474567E+22
681	3,760814E+22	3,760708E+22	9,765066E+21	9,764371E+21	7,521522E+22	1,952944E+22	9,474466E+22
682	3,760732E+22	3,760886E+22	9,764914E+21	9,764628E+21	7,521619E+22	1,952954E+22	9,474573E+22
683	3,760897E+22	3,760812E+22	9,764114E+21	9,764803E+21	7,521710E+22	1,952892E+22	9,474602E+22
684	3,760756E+22	3,760830E+22	9,764950E+21	9,764173E+21	7,521586E+22	1,952912E+22	9,474498E+22
685	3,760783E+22	3,760886E+22	9,764562E+21	9,764983E+21	7,521669E+22	1,952955E+22	9,474623E+22
686	3,760895E+22	3,760707E+22	9,764539E+21	9,764876E+21	7,521602E+22	1,952942E+22	9,474544E+22
687	3,760666E+22	3,760771E+22	9,765677E+21	9,764812E+21	7,521436E+22	1,953049E+22	9,474485E+22
688	3,760749E+22	3,760745E+22	9,765224E+21	9,766024E+21	7,521494E+22	1,953125E+22	9,474619E+22
689	3,760692E+22	3,760578E+22	9,765978E+21	9,765854E+21	7,521270E+22	1,953183E+22	9,474453E+22
690	3,760470E+22	3,760650E+22	9,766759E+21	9,766419E+21	7,521120E+22	1,953318E+22	9,474438E+22
691	3,760604E+22	3,760515E+22	9,766317E+21	9,767192E+21	7,521119E+22	1,953351E+22	9,474470E+22
692	3,760467E+22	3,760423E+22	9,767403E+21	9,766646E+21	7,520890E+22	1,953405E+22	9,474295E+22
693	3,760400E+22	3,760516E+22	9,767287E+21	9,767297E+21	7,520916E+22	1,953458E+22	9,474375E+22
694	3,760531E+22	3,760376E+22	9,766816E+21	9,767385E+21	7,520906E+22	1,953420E+22	9,474326E+22
695	3,760313E+22	3,760446E+22	9,767616E+21	9,766779E+21	7,520759E+22	1,953439E+22	9,474199E+22
696	3,760440E+22	3,760517E+22	9,766732E+21	9,767354E+21	7,520957E+22	1,953409E+22	9,474365E+22
697	3,760562E+22	3,760406E+22	9,766564E+21	9,766505E+21	7,520968E+22	1,953307E+22	9,474275E+22
698	3,760442E+22	3,760570E+22	9,766775E+21	9,765983E+21	7,521012E+22	1,953276E+22	9,474287E+22
699	3,760668E+22	3,760598E+22	9,765617E+21	9,766293E+21	7,521265E+22	1,953191E+22	9,474456E+22
700	3,760633E+22	3,760579E+22	9,765947E+21	9,765362E+21	7,521212E+22	1,953131E+22	9,474343E+22
701	3,760549E+22	3,760750E+22	9,765794E+21	9,765572E+21	7,521299E+22	1,953137E+22	9,474436E+22
702	3,760739E+22	3,760655E+22	9,765039E+21	9,765787E+21	7,521394E+22	1,953083E+22	9,474477E+22
703	3,760581E+22	3,760642E+22	9,765980E+21	9,765173E+21	7,521223E+22	1,953115E+22	9,474338E+22
704	3,760633E+22	3,760704E+22	9,765684E+21	9,765959E+21	7,521336E+22	1,953164E+22	9,474501E+22
705	3,760729E+22	3,760534E+22	9,765725E+21	9,766001E+21	7,521263E+22	1,953173E+22	9,474436E+22
706	3,760477E+22	3,760586E+22	9,766726E+21	9,766078E+21	7,521063E+22	1,953280E+22	9,474343E+22
707	3,760554E+22	3,760563E+22	9,766318E+21	9,767260E+21	7,521117E+22	1,953358E+22	9,474475E+22
708	3,760499E+22	3,760384E+22	9,767143E+21	9,767082E+21	7,520882E+22	1,953423E+22	9,474305E+22
709	3,760305E+22	3,760452E+22	9,767862E+21	9,767399E+21	7,520757E+22	1,953526E+22	9,474284E+22
710	3,760451E+22	3,760334E+22	9,767385E+21	9,768153E+21	7,520785E+22	1,953554E+22	9,474338E+22
711	3,760264E+22	3,760247E+22	9,768466E+21	9,767677E+21	7,520511E+22	1,953614E+22	9,474125E+22
712	3,760196E+22	3,760359E+22	9,768346E+21	9,768317E+21	7,520556E+22	1,953666E+22	9,474222E+22
713	3,760339E+22	3,760219E+22	9,767881E+21	9,768425E+21	7,520558E+22	1,953631E+22	9,474189E+22
714	3,760157E+22	3,760262E+22	9,768488E+21	9,767742E+21	7,520420E+22	1,953623E+22	9,474043E+22
715	3,760319E+22	3,760349E+22	9,767591E+21	9,768160E+21	7,520668E+22	1,953575E+22	9,474243E+22
716	3,760434E+22	3,760257E+22	9,767437E+21	9,767342E+21	7,520691E+22	1,953478E+22	9,474169E+22
717	3,760304E+22	3,760443E+22	9,767584E+21	9,766772E+21	7,520747E+22	1,953436E+22	9,474182E+22
718	3,760509E+22	3,760485E+22	9,766427E+21	9,767216E+21	7,520993E+22	1,953364E+22	9,474357E+22
719	3,760428E+22	3,760428E+22	9,766883E+21	9,766398E+21	7,520856E+22	1,953328E+22	9,474184E+22
720	3,760377E+22	3,760581E+22	9,766843E+21	9,766531E+21	7,520958E+22	1,953337E+22	9,474295E+22
721	3,760590E+22	3,760469E+22	9,766150E+21	9,766765E+21	7,521059E+22	1,953291E+22	9,474351E+22
722	3,760437E+22	3,760437E+22	9,766949E+21	9,766210E+21	7,520873E+22	1,953316E+22	9,474189E+22
723	3,760480E+22	3,760527E+22	9,766682E+21	9,767038E+21	7,521007E+22	1,953372E+22	9,474379E+22
724	3,760534E+22	3,760371E+22	9,766787E+21	9,767221E+21	7,520906E+22	1,953401E+22	9,474307E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
725	3,760289E+22	3,760422E+22	9,767798E+21	9,767187E+21	7,520711E+22	1,953498E+22	9,474209E+22
726	3,760383E+22	3,760392E+22	9,767424E+21	9,768310E+21	7,520776E+22	1,953573E+22	9,474349E+22
727	3,760296E+22	3,760189E+22	9,768354E+21	9,768139E+21	7,520484E+22	1,953649E+22	9,474134E+22
728	3,760120E+22	3,760268E+22	9,769100E+21	9,768403E+21	7,520388E+22	1,953750E+22	9,474139E+22
729	3,760252E+22	3,760157E+22	9,768592E+21	9,769280E+21	7,520409E+22	1,953787E+22	9,474196E+22
730	3,760059E+22	3,760053E+22	9,769439E+21	9,768891E+21	7,520113E+22	1,953833E+22	9,473946E+22
731	3,760023E+22	3,760170E+22	9,769294E+21	9,769419E+21	7,520193E+22	1,953871E+22	9,474064E+22
732	3,760184E+22	3,760040E+22	9,768814E+21	9,769431E+21	7,520224E+22	1,953824E+22	9,474049E+22
733	3,760045E+22	3,760102E+22	9,769310E+21	9,768500E+21	7,520148E+22	1,953781E+22	9,473929E+22
734	3,760208E+22	3,760220E+22	9,768400E+21	9,768877E+21	7,520428E+22	1,953728E+22	9,474156E+22
735	3,760255E+22	3,760138E+22	9,768321E+21	9,768188E+21	7,520394E+22	1,953651E+22	9,474044E+22
736	3,760118E+22	3,760324E+22	9,768538E+21	9,767656E+21	7,520442E+22	1,953619E+22	9,474061E+22
737	3,760320E+22	3,760342E+22	9,767460E+21	9,768188E+21	7,520662E+22	1,953565E+22	9,474227E+22
738	3,760267E+22	3,760235E+22	9,767780E+21	9,767408E+21	7,520502E+22	1,953519E+22	9,474020E+22
739	3,760251E+22	3,760380E+22	9,767791E+21	9,767479E+21	7,520631E+22	1,953527E+22	9,474158E+22
740	3,760453E+22	3,760290E+22	9,767137E+21	9,767811E+21	7,520743E+22	1,953495E+22	9,474238E+22
741	3,760294E+22	3,760276E+22	9,767856E+21	9,767240E+21	7,520571E+22	1,953510E+22	9,474080E+22
742	3,760308E+22	3,760386E+22	9,767653E+21	9,768135E+21	7,520693E+22	1,953579E+22	9,474272E+22
743	3,760318E+22	3,760206E+22	9,767930E+21	9,768375E+21	7,520524E+22	1,953630E+22	9,474155E+22
744	3,760095E+22	3,760237E+22	9,769078E+21	9,768224E+21	7,520332E+22	1,953730E+22	9,474062E+22
745	3,760192E+22	3,760202E+22	9,768763E+21	9,769364E+21	7,520394E+22	1,953813E+22	9,474206E+22
746	3,760100E+22	3,759973E+22	9,769504E+21	9,769295E+21	7,520073E+22	1,953880E+22	9,473953E+22
747	3,759923E+22	3,760066E+22	9,770201E+21	9,769598E+21	7,519989E+22	1,953980E+22	9,473969E+22
748	3,760039E+22	3,759973E+22	9,769635E+21	9,770532E+21	7,520012E+22	1,954017E+22	9,474029E+22
749	3,759891E+22	3,759873E+22	9,770333E+21	9,769948E+21	7,519764E+22	1,954028E+22	9,473792E+22
750	3,759894E+22	3,760010E+22	9,770157E+21	9,770305E+21	7,519904E+22	1,954046E+22	9,473950E+22
751	3,760036E+22	3,759887E+22	9,769760E+21	9,770253E+21	7,519923E+22	1,954001E+22	9,473925E+22
752	3,759909E+22	3,759972E+22	9,770305E+21	9,769256E+21	7,519881E+22	1,953956E+22	9,473837E+22
753	3,760039E+22	3,760104E+22	9,769407E+21	9,769762E+21	7,520143E+22	1,953917E+22	9,474060E+22
754	3,760063E+22	3,759984E+22	9,769177E+21	9,769224E+21	7,520047E+22	1,953840E+22	9,473887E+22
755	3,759958E+22	3,760142E+22	9,769438E+21	9,768661E+21	7,520100E+22	1,953810E+22	9,473910E+22
756	3,760170E+22	3,760152E+22	9,768383E+21	9,769156E+21	7,520323E+22	1,953754E+22	9,474077E+22
757	3,760157E+22	3,760054E+22	9,768597E+21	9,768251E+21	7,520211E+22	1,953685E+22	9,473896E+22
758	3,760139E+22	3,760229E+22	9,768621E+21	9,768332E+21	7,520368E+22	1,953695E+22	9,474063E+22
759	3,760262E+22	3,760152E+22	9,768124E+21	9,768821E+21	7,520415E+22	1,953695E+22	9,474109E+22
760	3,760097E+22	3,760144E+22	9,768982E+21	9,768277E+21	7,520241E+22	1,953726E+22	9,473967E+22
761	3,760102E+22	3,760231E+22	9,768914E+21	9,769229E+21	7,520332E+22	1,953814E+22	9,474146E+22
762	3,760118E+22	3,760000E+22	9,769110E+21	9,769534E+21	7,520118E+22	1,953864E+22	9,473982E+22
763	3,759925E+22	3,760012E+22	9,770295E+21	9,769365E+21	7,519937E+22	1,953966E+22	9,473903E+22
764	3,759996E+22	3,759993E+22	9,769946E+21	9,770583E+21	7,519990E+22	1,954053E+22	9,474042E+22
765	3,759915E+22	3,759781E+22	9,770489E+21	9,770515E+21	7,519696E+22	1,954100E+22	9,473796E+22
766	3,759743E+22	3,759889E+22	9,771128E+21	9,770772E+21	7,519632E+22	1,954190E+22	9,473822E+22
767	3,759846E+22	3,759794E+22	9,770672E+21	9,771632E+21	7,519639E+22	1,954230E+22	9,473870E+22
768	3,759748E+22	3,759707E+22	9,771398E+21	9,770810E+21	7,519455E+22	1,954221E+22	9,473676E+22
769	3,759757E+22	3,759863E+22	9,771250E+21	9,771106E+21	7,519620E+22	1,954236E+22	9,473856E+22
770	3,759877E+22	3,759734E+22	9,770692E+21	9,771129E+21	7,519611E+22	1,954182E+22	9,473793E+22
771	3,759741E+22	3,759821E+22	9,771235E+21	9,770195E+21	7,519562E+22	1,954143E+22	9,473705E+22
772	3,759841E+22	3,759958E+22	9,770329E+21	9,770760E+21	7,519800E+22	1,954109E+22	9,473909E+22
773	3,759911E+22	3,759815E+22	9,769956E+21	9,770139E+21	7,519726E+22	1,954009E+22	9,473736E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
774	3,759837E+22	3,759973E+22	9,770209E+21	9,769486E+21	7,519810E+22	1,953970E+22	9,473779E+22
775	3,760029E+22	3,759990E+22	9,769290E+21	9,770013E+21	7,520019E+22	1,953930E+22	9,473950E+22
776	3,760023E+22	3,759913E+22	9,769573E+21	9,769109E+21	7,519936E+22	1,953868E+22	9,473804E+22
777	3,759966E+22	3,760107E+22	9,769680E+21	9,769357E+21	7,520072E+22	1,953904E+22	9,473976E+22
778	3,760058E+22	3,759988E+22	9,769151E+21	9,769994E+21	7,520047E+22	1,953914E+22	9,473961E+22
779	3,759917E+22	3,759943E+22	9,770144E+21	9,769450E+21	7,519860E+22	1,953959E+22	9,473819E+22
780	3,759913E+22	3,760024E+22	9,770125E+21	9,770358E+21	7,519936E+22	1,954048E+22	9,473985E+22
781	3,759959E+22	3,759787E+22	9,770181E+21	9,770622E+21	7,519746E+22	1,954080E+22	9,473827E+22
782	3,759760E+22	3,759821E+22	9,771313E+21	9,770466E+21	7,519581E+22	1,954178E+22	9,473759E+22
783	3,759775E+22	3,759816E+22	9,771043E+21	9,771780E+21	7,519591E+22	1,954282E+22	9,473873E+22
784	3,759715E+22	3,759616E+22	9,771616E+21	9,771623E+21	7,519331E+22	1,954324E+22	9,473655E+22
785	3,759565E+22	3,759727E+22	9,772281E+21	9,771823E+21	7,519292E+22	1,954410E+22	9,473702E+22
786	3,759678E+22	3,759607E+22	9,771735E+21	9,772631E+21	7,519286E+22	1,954437E+22	9,473722E+22
787	3,759618E+22	3,759525E+22	9,772472E+21	9,771744E+21	7,519143E+22	1,954422E+22	9,473565E+22
788	3,759589E+22	3,759708E+22	9,772272E+21	9,772041E+21	7,519297E+22	1,954431E+22	9,473728E+22
789	3,759706E+22	3,759589E+22	9,771502E+21	9,772100E+21	7,519295E+22	1,954360E+22	9,473655E+22
790	3,759577E+22	3,759671E+22	9,771975E+21	9,771135E+21	7,519248E+22	1,954311E+22	9,473559E+22
791	3,759660E+22	3,759789E+22	9,771203E+21	9,771666E+21	7,519449E+22	1,954287E+22	9,473736E+22
792	3,759780E+22	3,759658E+22	9,770869E+21	9,770903E+21	7,519439E+22	1,954177E+22	9,473616E+22
793	3,759716E+22	3,759830E+22	9,771156E+21	9,770292E+21	7,519546E+22	1,954145E+22	9,473691E+22
794	3,759873E+22	3,759836E+22	9,770197E+21	9,770958E+21	7,519709E+22	1,954115E+22	9,473825E+22
795	3,759862E+22	3,759759E+22	9,770546E+21	9,770162E+21	7,519622E+22	1,954071E+22	9,473693E+22
796	3,759767E+22	3,759950E+22	9,770735E+21	9,770437E+21	7,519717E+22	1,954117E+22	9,473834E+22
797	3,759891E+22	3,759807E+22	9,770135E+21	9,771050E+21	7,519698E+22	1,954118E+22	9,473817E+22
798	3,759767E+22	3,759750E+22	9,771158E+21	9,770463E+21	7,519518E+22	1,954162E+22	9,473680E+22
799	3,759725E+22	3,759830E+22	9,771295E+21	9,771435E+21	7,519555E+22	1,954273E+22	9,473828E+22
800	3,759775E+22	3,759614E+22	9,771367E+21	9,771728E+21	7,519389E+22	1,954309E+22	9,473699E+22
801	3,759555E+22	3,759658E+22	9,772485E+21	9,771702E+21	7,519212E+22	1,954419E+22	9,473631E+22
802	3,759560E+22	3,759615E+22	9,772166E+21	9,773051E+21	7,519176E+22	1,954522E+22	9,473697E+22
803	3,759551E+22	3,759401E+22	9,772782E+21	9,772771E+21	7,518951E+22	1,954555E+22	9,473507E+22
804	3,759401E+22	3,759538E+22	9,773429E+21	9,772820E+21	7,518939E+22	1,954625E+22	9,473564E+22
805	3,759540E+22	3,759432E+22	9,772691E+21	9,773549E+21	7,518972E+22	1,954624E+22	9,473597E+22
806	3,759458E+22	3,759378E+22	9,773339E+21	9,772652E+21	7,518836E+22	1,954599E+22	9,473435E+22
807	3,759373E+22	3,759571E+22	9,773203E+21	9,773011E+21	7,518944E+22	1,954621E+22	9,473566E+22
808	3,759517E+22	3,759449E+22	9,772435E+21	9,772987E+21	7,518966E+22	1,954542E+22	9,473508E+22
809	3,759420E+22	3,759520E+22	9,772902E+21	9,772016E+21	7,518940E+22	1,954492E+22	9,473432E+22
810	3,759518E+22	3,759606E+22	9,772080E+21	9,772537E+21	7,519124E+22	1,954462E+22	9,473586E+22
811	3,759674E+22	3,759481E+22	9,771787E+21	9,771788E+21	7,519155E+22	1,954358E+22	9,473513E+22
812	3,759571E+22	3,759688E+22	9,772067E+21	9,771232E+21	7,519259E+22	1,954330E+22	9,473588E+22
813	3,759720E+22	3,759695E+22	9,771003E+21	9,771974E+21	7,519414E+22	1,954298E+22	9,473712E+22
814	3,759705E+22	3,759607E+22	9,771404E+21	9,771169E+21	7,519313E+22	1,954257E+22	9,473570E+22
815	3,759581E+22	3,759775E+22	9,771811E+21	9,771425E+21	7,519356E+22	1,954324E+22	9,473679E+22
816	3,759728E+22	3,759636E+22	9,771295E+21	9,771965E+21	7,519365E+22	1,954326E+22	9,473691E+22
817	3,759600E+22	3,759582E+22	9,772347E+21	9,771510E+21	7,519182E+22	1,954386E+22	9,473567E+22
818	3,759511E+22	3,759636E+22	9,772455E+21	9,772639E+21	7,519147E+22	1,954509E+22	9,473656E+22
819	3,759573E+22	3,759419E+22	9,772553E+21	9,773022E+21	7,518992E+22	1,954558E+22	9,473550E+22
820	3,759345E+22	3,759463E+22	9,773647E+21	9,772927E+21	7,518808E+22	1,954657E+22	9,473465E+22
821	3,759394E+22	3,759413E+22	9,773202E+21	9,774171E+21	7,518807E+22	1,954737E+22	9,473544E+22
822	3,759413E+22	3,759218E+22	9,773756E+21	9,773744E+21	7,518631E+22	1,954750E+22	9,473381E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
823	3,759226E+22	3,759369E+22	9,774504E+21	9,773768E+21	7,518594E+22	1,954827E+22	9,473421E+22
824	3,759359E+22	3,759300E+22	9,773737E+21	9,774471E+21	7,518659E+22	1,954821E+22	9,473479E+22
825	3,759262E+22	3,759248E+22	9,774320E+21	9,773687E+21	7,518510E+22	1,954801E+22	9,473311E+22
826	3,759168E+22	3,759388E+22	9,774147E+21	9,774047E+21	7,518556E+22	1,954819E+22	9,473375E+22
827	3,759376E+22	3,759251E+22	9,773390E+21	9,773928E+21	7,518627E+22	1,954732E+22	9,473359E+22
828	3,759292E+22	3,759343E+22	9,773795E+21	9,772839E+21	7,518635E+22	1,954663E+22	9,473298E+22
829	3,759416E+22	3,759445E+22	9,772837E+21	9,773362E+21	7,518861E+22	1,954620E+22	9,473480E+22
830	3,759549E+22	3,759356E+22	9,772503E+21	9,772629E+21	7,518905E+22	1,954513E+22	9,473418E+22
831	3,759386E+22	3,759568E+22	9,772964E+21	9,772157E+21	7,518953E+22	1,954512E+22	9,473466E+22
832	3,759542E+22	3,759571E+22	9,772018E+21	9,772844E+21	7,519113E+22	1,954486E+22	9,473600E+22
833	3,759535E+22	3,759463E+22	9,772501E+21	9,772143E+21	7,518998E+22	1,954464E+22	9,473462E+22
834	3,759398E+22	3,759577E+22	9,772965E+21	9,772476E+21	7,518975E+22	1,954544E+22	9,473519E+22
835	3,759564E+22	3,759427E+22	9,772509E+21	9,773117E+21	7,518991E+22	1,954563E+22	9,473554E+22
836	3,759396E+22	3,759394E+22	9,773499E+21	9,772753E+21	7,518790E+22	1,954625E+22	9,473416E+22
837	3,759321E+22	3,759435E+22	9,773449E+21	9,773943E+21	7,518755E+22	1,954739E+22	9,473495E+22
838	3,759395E+22	3,759217E+22	9,773536E+21	9,774214E+21	7,518612E+22	1,954775E+22	9,473387E+22
839	3,759163E+22	3,759267E+22	9,774768E+21	9,774006E+21	7,518431E+22	1,954877E+22	9,473308E+22
840	3,759239E+22	3,759246E+22	9,774363E+21	9,775071E+21	7,518485E+22	1,954943E+22	9,473428E+22
841	3,759245E+22	3,759076E+22	9,774893E+21	9,774720E+21	7,518321E+22	1,954961E+22	9,473283E+22
842	3,759009E+22	3,759204E+22	9,775588E+21	9,774825E+21	7,518213E+22	1,955041E+22	9,473254E+22
843	3,759157E+22	3,759125E+22	9,774810E+21	9,775550E+21	7,518282E+22	1,955036E+22	9,473318E+22
844	3,759067E+22	3,759072E+22	9,775310E+21	9,774687E+21	7,518139E+22	1,955000E+22	9,473139E+22
845	3,759034E+22	3,759193E+22	9,774959E+21	9,774967E+21	7,518227E+22	1,954993E+22	9,473219E+22
846	3,759274E+22	3,759083E+22	9,774136E+21	9,774729E+21	7,518358E+22	1,954887E+22	9,473244E+22
847	3,759164E+22	3,759203E+22	9,774624E+21	9,773662E+21	7,518367E+22	1,954829E+22	9,473195E+22
848	3,759272E+22	3,759345E+22	9,773705E+21	9,774172E+21	7,518617E+22	1,954788E+22	9,473404E+22
849	3,759383E+22	3,759258E+22	9,773404E+21	9,773583E+21	7,518641E+22	1,954699E+22	9,473340E+22
850	3,759193E+22	3,759399E+22	9,773987E+21	9,773148E+21	7,518592E+22	1,954713E+22	9,473306E+22
851	3,759384E+22	3,759382E+22	9,773156E+21	9,773822E+21	7,518766E+22	1,954698E+22	9,473464E+22
852	3,759368E+22	3,759273E+22	9,773621E+21	9,773145E+21	7,518641E+22	1,954677E+22	9,473318E+22
853	3,759237E+22	3,759372E+22	9,773963E+21	9,773598E+21	7,518609E+22	1,954756E+22	9,473365E+22
854	3,759385E+22	3,759249E+22	9,773439E+21	9,774283E+21	7,518633E+22	1,954772E+22	9,473406E+22
855	3,759186E+22	3,759213E+22	9,774533E+21	9,773953E+21	7,518399E+22	1,954849E+22	9,473247E+22
856	3,759137E+22	3,759265E+22	9,774570E+21	9,774993E+21	7,518402E+22	1,954956E+22	9,473359E+22
857	3,759232E+22	3,759057E+22	9,774689E+21	9,775265E+21	7,518288E+22	1,954995E+22	9,473283E+22
858	3,758981E+22	3,759072E+22	9,775993E+21	9,775055E+21	7,518053E+22	1,955105E+22	9,473158E+22
859	3,759065E+22	3,759062E+22	9,775627E+21	9,776151E+21	7,518127E+22	1,955178E+22	9,473305E+22
860	3,759028E+22	3,758914E+22	9,776040E+21	9,775862E+21	7,517942E+22	1,955190E+22	9,473132E+22
861	3,758812E+22	3,759010E+22	9,776530E+21	9,776003E+21	7,517822E+22	1,955253E+22	9,473076E+22
862	3,758990E+22	3,758930E+22	9,775660E+21	9,776560E+21	7,517920E+22	1,955222E+22	9,473142E+22
863	3,758917E+22	3,758888E+22	9,776191E+21	9,775579E+21	7,517805E+22	1,955177E+22	9,472982E+22
864	3,758921E+22	3,759048E+22	9,775842E+21	9,775694E+21	7,517970E+22	1,955154E+22	9,473123E+22
865	3,759146E+22	3,758979E+22	9,775000E+21	9,775548E+21	7,518126E+22	1,955055E+22	9,473180E+22
866	3,758987E+22	3,759078E+22	9,775530E+21	9,774583E+21	7,518065E+22	1,955011E+22	9,473076E+22
867	3,759101E+22	3,759202E+22	9,774714E+21	9,775108E+21	7,518303E+22	1,954982E+22	9,473285E+22
868	3,759197E+22	3,759105E+22	9,774425E+21	9,774518E+21	7,518302E+22	1,954894E+22	9,473196E+22
869	3,759049E+22	3,759202E+22	9,774899E+21	9,774128E+21	7,518251E+22	1,954903E+22	9,473154E+22
870	3,759243E+22	3,759189E+22	9,774064E+21	9,774773E+21	7,518432E+22	1,954884E+22	9,473316E+22
871	3,759198E+22	3,759096E+22	9,774612E+21	9,774226E+21	7,518294E+22	1,954884E+22	9,473178E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
872	3,759059E+22	3,759219E+22	9,774976E+21	9,774687E+21	7,518278E+22	1,954966E+22	9,473244E+22
873	3,759197E+22	3,759098E+22	9,774495E+21	9,775471E+21	7,518295E+22	1,954997E+22	9,473291E+22
874	3,758990E+22	3,759010E+22	9,775704E+21	9,775104E+21	7,518000E+22	1,955081E+22	9,473081E+22
875	3,758976E+22	3,759061E+22	9,775857E+21	9,776049E+21	7,518036E+22	1,955191E+22	9,473227E+22
876	3,759049E+22	3,758879E+22	9,775959E+21	9,776309E+21	7,517928E+22	1,955227E+22	9,473154E+22
877	3,758798E+22	3,758880E+22	9,777097E+21	9,776213E+21	7,517678E+22	1,955331E+22	9,473009E+22
878	3,758857E+22	3,758890E+22	9,776635E+21	9,777282E+21	7,517747E+22	1,955392E+22	9,473138E+22
879	3,758809E+22	3,758735E+22	9,777054E+21	9,777002E+21	7,517544E+22	1,955406E+22	9,472949E+22
880	3,758638E+22	3,758837E+22	9,777504E+21	9,776949E+21	7,517475E+22	1,955445E+22	9,472921E+22
881	3,758855E+22	3,758778E+22	9,776579E+21	9,777462E+21	7,517633E+22	1,955404E+22	9,473037E+22
882	3,758780E+22	3,758712E+22	9,777136E+21	9,776449E+21	7,517492E+22	1,955359E+22	9,472850E+22
883	3,758793E+22	3,758904E+22	9,776825E+21	9,776572E+21	7,517698E+22	1,955340E+22	9,473037E+22
884	3,758973E+22	3,758865E+22	9,775915E+21	9,776469E+21	7,517838E+22	1,955238E+22	9,473076E+22
885	3,758824E+22	3,758913E+22	9,776347E+21	9,775586E+21	7,517737E+22	1,955193E+22	9,472930E+22
886	3,758948E+22	3,759030E+22	9,775545E+21	9,775970E+21	7,517979E+22	1,955152E+22	9,473130E+22
887	3,759046E+22	3,758926E+22	9,775344E+21	9,775395E+21	7,517972E+22	1,955074E+22	9,473046E+22
888	3,758913E+22	3,759040E+22	9,775859E+21	9,774970E+21	7,517953E+22	1,955083E+22	9,473036E+22
889	3,759083E+22	3,759054E+22	9,775031E+21	9,775783E+21	7,518137E+22	1,955081E+22	9,473219E+22
890	3,758992E+22	3,758926E+22	9,775664E+21	9,775369E+21	7,517918E+22	1,955103E+22	9,473021E+22
891	3,758873E+22	3,759038E+22	9,776153E+21	9,775829E+21	7,517910E+22	1,955198E+22	9,473109E+22
892	3,759001E+22	3,758921E+22	9,775711E+21	9,776577E+21	7,517922E+22	1,955229E+22	9,473151E+22
893	3,758832E+22	3,758797E+22	9,776839E+21	9,776262E+21	7,517629E+22	1,955310E+22	9,472939E+22
894	3,758812E+22	3,758864E+22	9,776988E+21	9,777126E+21	7,517676E+22	1,955411E+22	9,473087E+22
895	3,758846E+22	3,758703E+22	9,777108E+21	9,777507E+21	7,517549E+22	1,955461E+22	9,473010E+22
896	3,758592E+22	3,758717E+22	9,778173E+21	9,777381E+21	7,517309E+22	1,955555E+22	9,472865E+22
897	3,758652E+22	3,758724E+22	9,777670E+21	9,778441E+21	7,517375E+22	1,955611E+22	9,472987E+22
898	3,758620E+22	3,758526E+22	9,778120E+21	9,778067E+21	7,517145E+22	1,955619E+22	9,472764E+22
899	3,758509E+22	3,758637E+22	9,778570E+21	9,777852E+21	7,517146E+22	1,955642E+22	9,472788E+22
900	3,758709E+22	3,758624E+22	9,777593E+21	9,778308E+21	7,517334E+22	1,955590E+22	9,472924E+22
901	3,758644E+22	3,758560E+22	9,777944E+21	9,777389E+21	7,517203E+22	1,955533E+22	9,472737E+22
902	3,758633E+22	3,758769E+22	9,777595E+21	9,777428E+21	7,517402E+22	1,955502E+22	9,472904E+22
903	3,758794E+22	3,758729E+22	9,776760E+21	9,777347E+21	7,517523E+22	1,955411E+22	9,472934E+22
904	3,758678E+22	3,758768E+22	9,777212E+21	9,776367E+21	7,517446E+22	1,955358E+22	9,472804E+22
905	3,758808E+22	3,758889E+22	9,776450E+21	9,776792E+21	7,517697E+22	1,955324E+22	9,473021E+22
906	3,758886E+22	3,758750E+22	9,776360E+21	9,776345E+21	7,517635E+22	1,955271E+22	9,472906E+22
907	3,758757E+22	3,758873E+22	9,776925E+21	9,776023E+21	7,517629E+22	1,955295E+22	9,472924E+22
908	3,758886E+22	3,758904E+22	9,776106E+21	9,776931E+21	7,517789E+22	1,955304E+22	9,473093E+22
909	3,758819E+22	3,758723E+22	9,776646E+21	9,776598E+21	7,517542E+22	1,955324E+22	9,472867E+22
910	3,758715E+22	3,758835E+22	9,777184E+21	9,776888E+21	7,517550E+22	1,955407E+22	9,472957E+22
911	3,758836E+22	3,758731E+22	9,776846E+21	9,777643E+21	7,517567E+22	1,955449E+22	9,473016E+22
912	3,758666E+22	3,758627E+22	9,777995E+21	9,777306E+21	7,517293E+22	1,955530E+22	9,472824E+22
913	3,758611E+22	3,758721E+22	9,778121E+21	9,778268E+21	7,517332E+22	1,955639E+22	9,472971E+22
914	3,758608E+22	3,758512E+22	9,778294E+21	9,778730E+21	7,517121E+22	1,955702E+22	9,472823E+22
915	3,758390E+22	3,758513E+22	9,779367E+21	9,778520E+21	7,516903E+22	1,955789E+22	9,472692E+22
916	3,758464E+22	3,758533E+22	9,778792E+21	9,779458E+21	7,516998E+22	1,955825E+22	9,472823E+22
917	3,758484E+22	3,758310E+22	9,779057E+21	9,779079E+21	7,516794E+22	1,955814E+22	9,472608E+22
918	3,758385E+22	3,758464E+22	9,779445E+21	9,778730E+21	7,516849E+22	1,955817E+22	9,472666E+22
919	3,758552E+22	3,758493E+22	9,778467E+21	9,779250E+21	7,517045E+22	1,955772E+22	9,472817E+22
920	3,758481E+22	3,758444E+22	9,778769E+21	9,778283E+21	7,516926E+22	1,955705E+22	9,472631E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
921	3,758468E+22	3,758648E+22	9,778438E+21	9,778276E+21	7,517115E+22	1,955671E+22	9,472787E+22
922	3,758623E+22	3,758555E+22	9,777724E+21	9,778187E+21	7,517178E+22	1,955591E+22	9,472769E+22
923	3,758544E+22	3,758593E+22	9,778235E+21	9,777198E+21	7,517136E+22	1,955543E+22	9,472680E+22
924	3,758643E+22	3,758738E+22	9,777483E+21	9,777704E+21	7,517381E+22	1,955519E+22	9,472900E+22
925	3,758723E+22	3,758575E+22	9,777247E+21	9,777479E+21	7,517298E+22	1,955473E+22	9,472771E+22
926	3,758588E+22	3,758701E+22	9,777802E+21	9,777112E+21	7,517289E+22	1,955491E+22	9,472780E+22
927	3,758706E+22	3,758732E+22	9,777101E+21	9,778034E+21	7,517437E+22	1,955513E+22	9,472951E+22
928	3,758673E+22	3,758553E+22	9,777666E+21	9,777598E+21	7,517226E+22	1,955526E+22	9,472753E+22
929	3,758564E+22	3,758673E+22	9,778284E+21	9,777868E+21	7,517238E+22	1,955615E+22	9,472853E+22
930	3,758644E+22	3,758548E+22	9,778101E+21	9,778751E+21	7,517192E+22	1,955685E+22	9,472878E+22
931	3,758467E+22	3,758449E+22	9,779264E+21	9,778507E+21	7,516916E+22	1,955777E+22	9,472693E+22
932	3,758367E+22	3,758544E+22	9,779365E+21	9,779505E+21	7,516911E+22	1,955887E+22	9,472798E+22
933	3,758408E+22	3,758280E+22	9,779366E+21	9,779998E+21	7,516688E+22	1,955936E+22	9,472625E+22
934	3,758234E+22	3,758284E+22	9,780353E+21	9,779549E+21	7,516518E+22	1,955990E+22	9,472508E+22
935	3,758318E+22	3,758342E+22	9,779795E+21	9,780421E+21	7,516660E+22	1,956022E+22	9,472682E+22
936	3,758351E+22	3,758169E+22	9,779960E+21	9,779958E+21	7,516520E+22	1,955992E+22	9,472512E+22
937	3,758223E+22	3,758361E+22	9,780303E+21	9,779613E+21	7,516584E+22	1,955992E+22	9,472576E+22
938	3,758352E+22	3,758359E+22	9,779440E+21	9,780171E+21	7,516711E+22	1,955961E+22	9,472672E+22
939	3,758309E+22	3,758296E+22	9,779774E+21	9,779152E+21	7,516606E+22	1,955893E+22	9,472498E+22
940	3,758294E+22	3,758497E+22	9,779448E+21	9,779103E+21	7,516791E+22	1,955855E+22	9,472646E+22
941	3,758488E+22	3,758359E+22	9,778600E+21	9,779138E+21	7,516847E+22	1,955774E+22	9,472620E+22
942	3,758417E+22	3,758414E+22	9,779061E+21	9,778139E+21	7,516830E+22	1,955720E+22	9,472550E+22
943	3,758484E+22	3,758587E+22	9,778342E+21	9,778777E+21	7,517071E+22	1,955712E+22	9,472783E+22
944	3,758567E+22	3,758430E+22	9,778087E+21	9,778533E+21	7,516997E+22	1,955662E+22	9,472659E+22
945	3,758438E+22	3,758555E+22	9,778714E+21	9,778087E+21	7,516993E+22	1,955680E+22	9,472673E+22
946	3,758542E+22	3,758544E+22	9,778236E+21	9,778984E+21	7,517086E+22	1,955722E+22	9,472808E+22
947	3,758517E+22	3,758377E+22	9,778913E+21	9,778568E+21	7,516894E+22	1,955748E+22	9,472642E+22
948	3,758359E+22	3,758517E+22	9,779565E+21	9,778935E+21	7,516876E+22	1,955850E+22	9,472726E+22
949	3,758422E+22	3,758347E+22	9,779251E+21	9,780043E+21	7,516770E+22	1,955929E+22	9,472699E+22
950	3,758250E+22	3,758240E+22	9,780364E+21	9,779745E+21	7,516490E+22	1,956011E+22	9,472501E+22
951	3,758160E+22	3,758332E+22	9,780476E+21	9,780704E+21	7,516492E+22	1,956118E+22	9,472610E+22
952	3,758250E+22	3,758083E+22	9,780378E+21	9,781054E+21	7,516333E+22	1,956143E+22	9,472476E+22
953	3,758098E+22	3,758119E+22	9,781315E+21	9,780501E+21	7,516217E+22	1,956182E+22	9,472399E+22
954	3,758150E+22	3,758180E+22	9,780877E+21	9,781412E+21	7,516330E+22	1,956229E+22	9,472559E+22
955	3,758177E+22	3,758041E+22	9,781012E+21	9,780960E+21	7,516218E+22	1,956197E+22	9,472415E+22
956	3,758019E+22	3,758233E+22	9,781342E+21	9,780583E+21	7,516252E+22	1,956192E+22	9,472444E+22
957	3,758180E+22	3,758169E+22	9,780356E+21	9,781160E+21	7,516348E+22	1,956152E+22	9,472500E+22
958	3,758176E+22	3,758100E+22	9,780625E+21	9,779993E+21	7,516276E+22	1,956062E+22	9,472338E+22
959	3,758156E+22	3,758322E+22	9,780323E+21	9,779975E+21	7,516478E+22	1,956030E+22	9,472508E+22
960	3,758359E+22	3,758219E+22	9,779383E+21	9,780036E+21	7,516577E+22	1,955942E+22	9,472519E+22
961	3,758271E+22	3,758294E+22	9,779813E+21	9,779058E+21	7,516565E+22	1,955887E+22	9,472452E+22
962	3,758306E+22	3,758437E+22	9,779318E+21	9,779742E+21	7,516743E+22	1,955906E+22	9,472649E+22
963	3,758411E+22	3,758281E+22	9,779143E+21	9,779446E+21	7,516692E+22	1,955859E+22	9,472551E+22
964	3,758264E+22	3,758399E+22	9,779883E+21	9,778997E+21	7,516663E+22	1,955888E+22	9,472552E+22
965	3,758375E+22	3,758345E+22	9,779378E+21	9,780063E+21	7,516720E+22	1,955944E+22	9,472664E+22
966	3,758338E+22	3,758184E+22	9,780040E+21	9,779726E+21	7,516522E+22	1,955977E+22	9,472499E+22
967	3,758136E+22	3,758334E+22	9,780711E+21	9,780244E+21	7,516469E+22	1,956096E+22	9,472565E+22
968	3,758214E+22	3,758155E+22	9,780305E+21	9,781318E+21	7,516369E+22	1,956162E+22	9,472531E+22
969	3,758072E+22	3,758040E+22	9,781371E+21	9,780871E+21	7,516112E+22	1,956224E+22	9,472336E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
970	3,757989E+22	3,758115E+22	9,781638E+21	9,781753E+21	7,516104E+22	1,956339E+22	9,472443E+22
971	3,758099E+22	3,757911E+22	9,781540E+21	9,782031E+21	7,516010E+22	1,956357E+22	9,472367E+22
972	3,757914E+22	3,757987E+22	9,782460E+21	9,781503E+21	7,515901E+22	1,956396E+22	9,472297E+22
973	3,757958E+22	3,758014E+22	9,781892E+21	9,782519E+21	7,515972E+22	1,956441E+22	9,472413E+22
974	3,757994E+22	3,757873E+22	9,781958E+21	9,781954E+21	7,515867E+22	1,956391E+22	9,472258E+22
975	3,757845E+22	3,758060E+22	9,782272E+21	9,781518E+21	7,515905E+22	1,956379E+22	9,472284E+22
976	3,758043E+22	3,757999E+22	9,781177E+21	9,781987E+21	7,516042E+22	1,956316E+22	9,472358E+22
977	3,758060E+22	3,757953E+22	9,781395E+21	9,780788E+21	7,516013E+22	1,956218E+22	9,472231E+22
978	3,758009E+22	3,758168E+22	9,781239E+21	9,780880E+21	7,516177E+22	1,956212E+22	9,472389E+22
979	3,758196E+22	3,758097E+22	9,780319E+21	9,780994E+21	7,516292E+22	1,956131E+22	9,472424E+22
980	3,758093E+22	3,758166E+22	9,780795E+21	9,780022E+21	7,516259E+22	1,956082E+22	9,472341E+22
981	3,758148E+22	3,758241E+22	9,780302E+21	9,780737E+21	7,516389E+22	1,956104E+22	9,472493E+22
982	3,758271E+22	3,758090E+22	9,780165E+21	9,780377E+21	7,516360E+22	1,956054E+22	9,472414E+22
983	3,758095E+22	3,758222E+22	9,780993E+21	9,780044E+21	7,516317E+22	1,956104E+22	9,472420E+22
984	3,758185E+22	3,758182E+22	9,780426E+21	9,781199E+21	7,516367E+22	1,956163E+22	9,472530E+22
985	3,758134E+22	3,758023E+22	9,781054E+21	9,780919E+21	7,516157E+22	1,956197E+22	9,472354E+22
986	3,757914E+22	3,758125E+22	9,781902E+21	9,781468E+21	7,516040E+22	1,956337E+22	9,472377E+22
987	3,758026E+22	3,757960E+22	9,781507E+21	9,782439E+21	7,515986E+22	1,956395E+22	9,472381E+22
988	3,757900E+22	3,757854E+22	9,782569E+21	9,781928E+21	7,515754E+22	1,956450E+22	9,472203E+22
989	3,757833E+22	3,757904E+22	9,782771E+21	9,782878E+21	7,515737E+22	1,956565E+22	9,472302E+22
990	3,757936E+22	3,757740E+22	9,782607E+21	9,783137E+21	7,515676E+22	1,956574E+22	9,472250E+22
991	3,757714E+22	3,757834E+22	9,783503E+21	9,782651E+21	7,515548E+22	1,956615E+22	9,472163E+22
992	3,757776E+22	3,757854E+22	9,782822E+21	9,783538E+21	7,515630E+22	1,956636E+22	9,472266E+22
993	3,757844E+22	3,757704E+22	9,782805E+21	9,782795E+21	7,515548E+22	1,956560E+22	9,472108E+22
994	3,757692E+22	3,757872E+22	9,783249E+21	9,782332E+21	7,515565E+22	1,956558E+22	9,472123E+22
995	3,757900E+22	3,757858E+22	9,782118E+21	9,782778E+21	7,515759E+22	1,956490E+22	9,472248E+22
996	3,757891E+22	3,757834E+22	9,782312E+21	9,781678E+21	7,515726E+22	1,956399E+22	9,472124E+22
997	3,757839E+22	3,758007E+22	9,782110E+21	9,781904E+21	7,515847E+22	1,956401E+22	9,472248E+22
998	3,758042E+22	3,757935E+22	9,781203E+21	9,781940E+21	7,515977E+22	1,956314E+22	9,472291E+22
999	3,757938E+22	3,758001E+22	9,781746E+21	9,780968E+21	7,515939E+22	1,956271E+22	9,472211E+22
1000	3,758011E+22	3,758074E+22	9,781232E+21	9,781634E+21	7,516086E+22	1,956287E+22	9,472373E+22
1001	3,758128E+22	3,757934E+22	9,781108E+21	9,781325E+21	7,516061E+22	1,956243E+22	9,472304E+22
1002	3,757901E+22	3,758048E+22	9,782130E+21	9,781192E+21	7,515949E+22	1,956332E+22	9,472281E+22
1003	3,757969E+22	3,758024E+22	9,781588E+21	9,782398E+21	7,515993E+22	1,956399E+22	9,472392E+22
1004	3,757921E+22	3,757841E+22	9,782253E+21	9,782132E+21	7,515762E+22	1,956438E+22	9,472200E+22
1005	3,757739E+22	3,757878E+22	9,783062E+21	9,782667E+21	7,515617E+22	1,956573E+22	9,472190E+22
1006	3,757878E+22	3,757738E+22	9,782656E+21	9,783523E+21	7,515616E+22	1,956618E+22	9,472234E+22
1007	3,757734E+22	3,757672E+22	9,783711E+21	9,783049E+21	7,515406E+22	1,956676E+22	9,472082E+22
1008	3,757652E+22	3,757749E+22	9,783806E+21	9,783979E+21	7,515401E+22	1,956778E+22	9,472180E+22
1009	3,757744E+22	3,757603E+22	9,783576E+21	9,784173E+21	7,515347E+22	1,956775E+22	9,472122E+22
1010	3,757511E+22	3,757657E+22	9,784594E+21	9,783662E+21	7,515168E+22	1,956826E+22	9,471993E+22
1011	3,757589E+22	3,757693E+22	9,783884E+21	9,784400E+21	7,515282E+22	1,956828E+22	9,472111E+22
1012	3,757680E+22	3,757546E+22	9,783820E+21	9,783661E+21	7,515226E+22	1,956748E+22	9,471974E+22
1013	3,757547E+22	3,757674E+22	9,784168E+21	9,783306E+21	7,515221E+22	1,956747E+22	9,471969E+22
1014	3,757755E+22	3,757700E+22	9,782975E+21	9,783774E+21	7,515455E+22	1,956675E+22	9,472130E+22
1015	3,757728E+22	3,757692E+22	9,783138E+21	9,782720E+21	7,515420E+22	1,956586E+22	9,472006E+22
1016	3,757700E+22	3,757851E+22	9,782885E+21	9,782825E+21	7,515551E+22	1,956571E+22	9,472122E+22
1017	3,757923E+22	3,757784E+22	9,781995E+21	9,782709E+21	7,515707E+22	1,956470E+22	9,472178E+22
1018	3,757797E+22	3,757830E+22	9,782772E+21	9,781816E+21	7,515627E+22	1,956459E+22	9,472086E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1019	3,757840E+22	3,757942E+22	9,782334E+21	9,782525E+21	7,515782E+22	1,956486E+22	9,472268E+22
1020	3,757923E+22	3,757800E+22	9,782243E+21	9,782423E+21	7,515722E+22	1,956467E+22	9,472189E+22
1021	3,757690E+22	3,757840E+22	9,783255E+21	9,782450E+21	7,515531E+22	1,956571E+22	9,472101E+22
1022	3,757782E+22	3,757810E+22	9,782721E+21	9,783592E+21	7,515592E+22	1,956631E+22	9,472223E+22
1023	3,757743E+22	3,757629E+22	9,783389E+21	9,783302E+21	7,515373E+22	1,956669E+22	9,472042E+22
1024	3,757594E+22	3,757677E+22	9,784118E+21	9,783760E+21	7,515271E+22	1,956788E+22	9,472059E+22
1025	3,757730E+22	3,757571E+22	9,783689E+21	9,784568E+21	7,515301E+22	1,956826E+22	9,472126E+22
1026	3,757533E+22	3,757510E+22	9,784889E+21	9,784225E+21	7,515043E+22	1,956911E+22	9,471954E+22
1027	3,757431E+22	3,757612E+22	9,784961E+21	9,785062E+21	7,515043E+22	1,957002E+22	9,472045E+22
1028	3,757534E+22	3,757437E+22	9,784716E+21	9,785218E+21	7,514971E+22	1,956993E+22	9,471965E+22
1029	3,757336E+22	3,757428E+22	9,785645E+21	9,784676E+21	7,514764E+22	1,957032E+22	9,471796E+22
1030	3,757445E+22	3,757490E+22	9,784860E+21	9,785310E+21	7,514935E+22	1,957017E+22	9,471952E+22
1031	3,757524E+22	3,757382E+22	9,784719E+21	9,784633E+21	7,514906E+22	1,956935E+22	9,471841E+22
1032	3,757403E+22	3,757529E+22	9,784903E+21	9,784271E+21	7,514932E+22	1,956917E+22	9,471850E+22
1033	3,757615E+22	3,757572E+22	9,783685E+21	9,784624E+21	7,515187E+22	1,956831E+22	9,472018E+22
1034	3,757581E+22	3,757544E+22	9,784028E+21	9,783565E+21	7,515124E+22	1,956759E+22	9,471884E+22
1035	3,757555E+22	3,757725E+22	9,783838E+21	9,783529E+21	7,515281E+22	1,956737E+22	9,472017E+22
1036	3,757776E+22	3,757653E+22	9,783037E+21	9,783526E+21	7,515429E+22	1,956656E+22	9,472085E+22
1037	3,757633E+22	3,757644E+22	9,783839E+21	9,782875E+21	7,515276E+22	1,956671E+22	9,471948E+22
1038	3,757648E+22	3,757771E+22	9,783415E+21	9,783693E+21	7,515419E+22	1,956711E+22	9,472130E+22
1039	3,757714E+22	3,757619E+22	9,783331E+21	9,783705E+21	7,515332E+22	1,956704E+22	9,472036E+22
1040	3,757522E+22	3,757621E+22	9,784249E+21	9,783634E+21	7,515143E+22	1,956788E+22	9,471931E+22
1041	3,757640E+22	3,757606E+22	9,783717E+21	9,784606E+21	7,515246E+22	1,956832E+22	9,472078E+22
1042	3,757586E+22	3,757433E+22	9,784538E+21	9,784366E+21	7,515019E+22	1,956890E+22	9,471910E+22
1043	3,757401E+22	3,757535E+22	9,785306E+21	9,784788E+21	7,514936E+22	1,957009E+22	9,471946E+22
1044	3,757510E+22	3,757440E+22	9,784911E+21	9,785722E+21	7,514950E+22	1,957063E+22	9,472013E+22
1045	3,757309E+22	3,757307E+22	9,786084E+21	9,785454E+21	7,514617E+22	1,957154E+22	9,471770E+22
1046	3,757230E+22	3,757407E+22	9,786114E+21	9,786147E+21	7,514638E+22	1,957226E+22	9,471864E+22
1047	3,757353E+22	3,757235E+22	9,785780E+21	9,786255E+21	7,514589E+22	1,957204E+22	9,471792E+22
1048	3,757201E+22	3,757224E+22	9,786510E+21	9,785638E+21	7,514425E+22	1,957215E+22	9,471640E+22
1049	3,757318E+22	3,757333E+22	9,785636E+21	9,786193E+21	7,514651E+22	1,957183E+22	9,471834E+22
1050	3,757365E+22	3,757245E+22	9,785576E+21	9,785617E+21	7,514610E+22	1,957119E+22	9,471729E+22
1051	3,757239E+22	3,757422E+22	9,785773E+21	9,785114E+21	7,514661E+22	1,957089E+22	9,471750E+22
1052	3,757467E+22	3,757448E+22	9,784632E+21	9,785423E+21	7,514915E+22	1,957006E+22	9,471920E+22
1053	3,757442E+22	3,757361E+22	9,784995E+21	9,784405E+21	7,514803E+22	1,956940E+22	9,471743E+22
1054	3,757414E+22	3,757561E+22	9,784849E+21	9,784369E+21	7,514975E+22	1,956922E+22	9,471897E+22
1055	3,757591E+22	3,757504E+22	9,784063E+21	9,784554E+21	7,515095E+22	1,956862E+22	9,471957E+22
1056	3,757452E+22	3,757476E+22	9,784745E+21	9,784025E+21	7,514928E+22	1,956877E+22	9,471805E+22
1057	3,757475E+22	3,757593E+22	9,784319E+21	9,784761E+21	7,515068E+22	1,956908E+22	9,471976E+22
1058	3,757533E+22	3,757421E+22	9,784395E+21	9,784817E+21	7,514954E+22	1,956921E+22	9,471876E+22
1059	3,757359E+22	3,757453E+22	9,785328E+21	9,784596E+21	7,514812E+22	1,956992E+22	9,471804E+22
1060	3,757479E+22	3,757441E+22	9,784902E+21	9,785646E+21	7,514921E+22	1,957055E+22	9,471975E+22
1061	3,757399E+22	3,757239E+22	9,785750E+21	9,785585E+21	7,514638E+22	1,957134E+22	9,471772E+22
1062	3,757193E+22	3,757361E+22	9,786522E+21	9,786023E+21	7,514553E+22	1,957254E+22	9,471808E+22
1063	3,757281E+22	3,757255E+22	9,786123E+21	9,786972E+21	7,514536E+22	1,957309E+22	9,471846E+22
1064	3,757130E+22	3,757084E+22	9,787119E+21	9,786587E+21	7,514215E+22	1,957371E+22	9,471585E+22
1065	3,757082E+22	3,757198E+22	9,787057E+21	9,787056E+21	7,514280E+22	1,957411E+22	9,471691E+22
1066	3,757195E+22	3,757050E+22	9,786782E+21	9,787219E+21	7,514245E+22	1,957400E+22	9,471645E+22
1067	3,757034E+22	3,757100E+22	9,787428E+21	9,786519E+21	7,514133E+22	1,957395E+22	9,471528E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1068	3,757147E+22	3,757222E+22	9,786584E+21	9,787141E+21	7,514370E+22	1,957373E+22	9,471742E+22
1069	3,757195E+22	3,757084E+22	9,786517E+21	9,786586E+21	7,514280E+22	1,957310E+22	9,471590E+22
1070	3,757090E+22	3,757266E+22	9,786733E+21	9,785946E+21	7,514356E+22	1,957268E+22	9,471624E+22
1071	3,757317E+22	3,757296E+22	9,785609E+21	9,786260E+21	7,514613E+22	1,957187E+22	9,471800E+22
1072	3,757314E+22	3,757185E+22	9,785849E+21	9,785322E+21	7,514499E+22	1,957117E+22	9,471616E+22
1073	3,757262E+22	3,757409E+22	9,785685E+21	9,785311E+21	7,514671E+22	1,957100E+22	9,471770E+22
1074	3,757400E+22	3,757349E+22	9,785004E+21	9,785692E+21	7,514749E+22	1,957070E+22	9,471819E+22
1075	3,757263E+22	3,757321E+22	9,785703E+21	9,785055E+21	7,514584E+22	1,957076E+22	9,471659E+22
1076	3,757317E+22	3,757417E+22	9,785394E+21	9,785771E+21	7,514734E+22	1,957117E+22	9,471850E+22
1077	3,757381E+22	3,757203E+22	9,785510E+21	9,785866E+21	7,514585E+22	1,957138E+22	9,471722E+22
1078	3,757200E+22	3,757269E+22	9,786508E+21	9,785642E+21	7,514470E+22	1,957215E+22	9,471684E+22
1079	3,757273E+22	3,757283E+22	9,786129E+21	9,786822E+21	7,514556E+22	1,957295E+22	9,471851E+22
1080	3,757193E+22	3,757056E+22	9,786851E+21	9,786847E+21	7,514250E+22	1,957370E+22	9,471619E+22
1081	3,756993E+22	3,757172E+22	9,787595E+21	9,787131E+21	7,514165E+22	1,957473E+22	9,471637E+22
1082	3,757079E+22	3,757053E+22	9,787270E+21	9,788083E+21	7,514132E+22	1,957535E+22	9,471668E+22
1083	3,756953E+22	3,756908E+22	9,788189E+21	9,787529E+21	7,513861E+22	1,957572E+22	9,471433E+22
1084	3,756926E+22	3,757031E+22	9,788136E+21	9,788044E+21	7,513957E+22	1,957618E+22	9,471575E+22
1085	3,757019E+22	3,756874E+22	9,787802E+21	9,788329E+21	7,513893E+22	1,957613E+22	9,471506E+22
1086	3,756864E+22	3,756953E+22	9,788390E+21	9,787579E+21	7,513817E+22	1,957597E+22	9,471414E+22
1087	3,756973E+22	3,757070E+22	9,787570E+21	9,788123E+21	7,514043E+22	1,957569E+22	9,471612E+22
1088	3,757067E+22	3,756908E+22	9,787340E+21	9,787461E+21	7,513975E+22	1,957480E+22	9,471455E+22
1089	3,756977E+22	3,757102E+22	9,787512E+21	9,786642E+21	7,514080E+22	1,957415E+22	9,471495E+22
1090	3,757158E+22	3,757147E+22	9,786514E+21	9,787102E+21	7,514306E+22	1,957362E+22	9,471667E+22
1091	3,757133E+22	3,757073E+22	9,786722E+21	9,786202E+21	7,514206E+22	1,957292E+22	9,471499E+22
1092	3,757082E+22	3,757272E+22	9,786650E+21	9,786325E+21	7,514354E+22	1,957298E+22	9,471652E+22
1093	3,757216E+22	3,757156E+22	9,786032E+21	9,786782E+21	7,514372E+22	1,957281E+22	9,471653E+22
1094	3,757112E+22	3,757131E+22	9,786747E+21	9,786051E+21	7,514244E+22	1,957280E+22	9,471524E+22
1095	3,757160E+22	3,757232E+22	9,786529E+21	9,786780E+21	7,514392E+22	1,957331E+22	9,471723E+22
1096	3,757236E+22	3,757013E+22	9,786551E+21	9,786984E+21	7,514249E+22	1,957354E+22	9,471603E+22
1097	3,757024E+22	3,757105E+22	9,787559E+21	9,786766E+21	7,514129E+22	1,957432E+22	9,471562E+22
1098	3,757045E+22	3,757118E+22	9,787323E+21	9,788095E+21	7,514163E+22	1,957542E+22	9,471705E+22
1099	3,756974E+22	3,756886E+22	9,788025E+21	9,787987E+21	7,513860E+22	1,957601E+22	9,471461E+22
1100	3,756808E+22	3,756973E+22	9,788802E+21	9,788226E+21	7,513781E+22	1,957703E+22	9,471484E+22
1101	3,756897E+22	3,756825E+22	9,788444E+21	9,789192E+21	7,513722E+22	1,957764E+22	9,471485E+22
1102	3,756783E+22	3,756719E+22	9,789291E+21	9,788598E+21	7,513502E+22	1,957789E+22	9,471291E+22
1103	3,756736E+22	3,756875E+22	9,789213E+21	9,789153E+21	7,513611E+22	1,957837E+22	9,471448E+22
1104	3,756855E+22	3,756704E+22	9,788679E+21	9,789419E+21	7,513560E+22	1,957810E+22	9,471369E+22
1105	3,756718E+22	3,756794E+22	9,789212E+21	9,788436E+21	7,513512E+22	1,957765E+22	9,471277E+22
1106	3,756822E+22	3,756917E+22	9,788468E+21	9,788935E+21	7,513740E+22	1,957740E+22	9,471480E+22
1107	3,756924E+22	3,756777E+22	9,788197E+21	9,788147E+21	7,513701E+22	1,957634E+22	9,471335E+22
1108	3,756837E+22	3,756969E+22	9,788441E+21	9,787467E+21	7,513807E+22	1,957591E+22	9,471397E+22
1109	3,756973E+22	3,756991E+22	9,787462E+21	9,788127E+21	7,513964E+22	1,957559E+22	9,471523E+22
1110	3,756954E+22	3,756917E+22	9,787678E+21	9,787268E+21	7,513871E+22	1,957495E+22	9,471365E+22
1111	3,756911E+22	3,757092E+22	9,787689E+21	9,787368E+21	7,514003E+22	1,957506E+22	9,471509E+22
1112	3,757088E+22	3,756948E+22	9,786947E+21	9,787794E+21	7,514035E+22	1,957474E+22	9,471509E+22
1113	3,756993E+22	3,756949E+22	9,787665E+21	9,786944E+21	7,513942E+22	1,957461E+22	9,471403E+22
1114	3,756986E+22	3,757077E+22	9,787613E+21	9,787834E+21	7,514063E+22	1,957545E+22	9,471608E+22
1115	3,757027E+22	3,756890E+22	9,787652E+21	9,788072E+21	7,513917E+22	1,957572E+22	9,471490E+22
1116	3,756814E+22	3,756949E+22	9,788775E+21	9,787967E+21	7,513763E+22	1,957674E+22	9,471437E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1117	3,756815E+22	3,756905E+22	9,788597E+21	9,789324E+21	7,513720E+22	1,957792E+22	9,471513E+22
1118	3,756785E+22	3,756672E+22	9,789256E+21	9,789136E+21	7,513457E+22	1,957839E+22	9,471296E+22
1119	3,756630E+22	3,756753E+22	9,790028E+21	9,789347E+21	7,513382E+22	1,957938E+22	9,471320E+22
1120	3,756740E+22	3,756613E+22	9,789455E+21	9,790370E+21	7,513353E+22	1,957983E+22	9,471335E+22
1121	3,756626E+22	3,756551E+22	9,790162E+21	9,789673E+21	7,513177E+22	1,957984E+22	9,471161E+22
1122	3,756550E+22	3,756719E+22	9,790171E+21	9,790235E+21	7,513269E+22	1,958041E+22	9,471309E+22
1123	3,756689E+22	3,756571E+22	9,789593E+21	9,790250E+21	7,513260E+22	1,957984E+22	9,471244E+22
1124	3,756588E+22	3,756644E+22	9,790165E+21	9,789195E+21	7,513232E+22	1,957936E+22	9,471168E+22
1125	3,756661E+22	3,756748E+22	9,789465E+21	9,789726E+21	7,513410E+22	1,957919E+22	9,471329E+22
1126	3,756760E+22	3,756636E+22	9,789159E+21	9,789016E+21	7,513396E+22	1,957817E+22	9,471214E+22
1127	3,756646E+22	3,756824E+22	9,789428E+21	9,788472E+21	7,513470E+22	1,957790E+22	9,471260E+22
1128	3,756805E+22	3,756814E+22	9,788305E+21	9,789210E+21	7,513619E+22	1,957751E+22	9,471370E+22
1129	3,756816E+22	3,756739E+22	9,788480E+21	9,788199E+21	7,513556E+22	1,957668E+22	9,471223E+22
1130	3,756769E+22	3,756920E+22	9,788625E+21	9,788319E+21	7,513689E+22	1,957694E+22	9,471383E+22
1131	3,756948E+22	3,756805E+22	9,787910E+21	9,788662E+21	7,513753E+22	1,957657E+22	9,471410E+22
1132	3,756843E+22	3,756808E+22	9,788750E+21	9,787987E+21	7,513651E+22	1,957674E+22	9,471325E+22
1133	3,756769E+22	3,756913E+22	9,788806E+21	9,789050E+21	7,513681E+22	1,957786E+22	9,471467E+22
1134	3,756810E+22	3,756712E+22	9,788894E+21	9,789326E+21	7,513521E+22	1,957822E+22	9,471343E+22
1135	3,756606E+22	3,756734E+22	9,790083E+21	9,789187E+21	7,513339E+22	1,957927E+22	9,471266E+22
1136	3,756648E+22	3,756657E+22	9,789707E+21	9,790495E+21	7,513305E+22	1,958020E+22	9,471325E+22
1137	3,756631E+22	3,756452E+22	9,790273E+21	9,790182E+21	7,513083E+22	1,958046E+22	9,471129E+22
1138	3,756445E+22	3,756575E+22	9,791073E+21	9,790483E+21	7,513020E+22	1,958156E+22	9,471176E+22
1139	3,756546E+22	3,756478E+22	9,790438E+21	9,791401E+21	7,513024E+22	1,958184E+22	9,471208E+22
1140	3,756456E+22	3,756411E+22	9,791186E+21	9,790684E+21	7,512867E+22	1,958187E+22	9,471054E+22
1141	3,756364E+22	3,756551E+22	9,791244E+21	9,791158E+21	7,512914E+22	1,958240E+22	9,471154E+22
1142	3,756532E+22	3,756413E+22	9,790635E+21	9,791076E+21	7,512945E+22	1,958171E+22	9,471116E+22
1143	3,756430E+22	3,756479E+22	9,791221E+21	9,790058E+21	7,512909E+22	1,958128E+22	9,471037E+22
1144	3,756503E+22	3,756574E+22	9,790317E+21	9,790721E+21	7,513077E+22	1,958104E+22	9,471181E+22
1145	3,756600E+22	3,756483E+22	9,789914E+21	9,790020E+21	7,513083E+22	1,957993E+22	9,471076E+22
1146	3,756477E+22	3,756661E+22	9,790259E+21	9,789535E+21	7,513138E+22	1,957979E+22	9,471118E+22
1147	3,756666E+22	3,756661E+22	9,789138E+21	9,790067E+21	7,513327E+22	1,957920E+22	9,471247E+22
1148	3,756715E+22	3,756582E+22	9,789376E+21	9,789032E+21	7,513297E+22	1,957841E+22	9,471137E+22
1149	3,756616E+22	3,756755E+22	9,789666E+21	9,789216E+21	7,513371E+22	1,957888E+22	9,471259E+22
1150	3,756775E+22	3,756671E+22	9,789023E+21	9,789670E+21	7,513445E+22	1,957869E+22	9,471315E+22
1151	3,756633E+22	3,756649E+22	9,789980E+21	9,789155E+21	7,513282E+22	1,957914E+22	9,471196E+22
1152	3,756559E+22	3,756707E+22	9,789940E+21	9,790286E+21	7,513266E+22	1,958023E+22	9,471288E+22
1153	3,756629E+22	3,756498E+22	9,789963E+21	9,790451E+21	7,513126E+22	1,958041E+22	9,471168E+22
1154	3,756423E+22	3,756510E+22	9,791204E+21	9,790336E+21	7,512934E+22	1,958154E+22	9,471088E+22
1155	3,756478E+22	3,756470E+22	9,790784E+21	9,791533E+21	7,512947E+22	1,958232E+22	9,471179E+22
1156	3,756470E+22	3,756288E+22	9,791341E+21	9,791316E+21	7,512757E+22	1,958266E+22	9,471023E+22
1157	3,756231E+22	3,756409E+22	9,792200E+21	9,791675E+21	7,512640E+22	1,958388E+22	9,471028E+22
1158	3,756352E+22	3,756320E+22	9,791591E+21	9,792497E+21	7,512673E+22	1,958409E+22	9,471082E+22
1159	3,756278E+22	3,756231E+22	9,792361E+21	9,791675E+21	7,512509E+22	1,958404E+22	9,470912E+22
1160	3,756213E+22	3,756350E+22	9,792216E+21	9,792078E+21	7,512563E+22	1,958429E+22	9,470992E+22
1161	3,756388E+22	3,756241E+22	9,791490E+21	9,791928E+21	7,512628E+22	1,958342E+22	9,470970E+22
1162	3,756253E+22	3,756327E+22	9,792076E+21	9,791060E+21	7,512580E+22	1,958314E+22	9,470893E+22
1163	3,756327E+22	3,756444E+22	9,791106E+21	9,791641E+21	7,512771E+22	1,958275E+22	9,471046E+22
1164	3,756460E+22	3,756341E+22	9,790735E+21	9,790944E+21	7,512801E+22	1,958168E+22	9,470969E+22
1165	3,756329E+22	3,756496E+22	9,791169E+21	9,790409E+21	7,512825E+22	1,958158E+22	9,470983E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1166	3,756543E+22	3,756508E+22	9,790130E+21	9,790870E+21	7,513051E+22	1,958100E+22	9,471151E+22
1167	3,756575E+22	3,756431E+22	9,790472E+21	9,789940E+21	7,513005E+22	1,958041E+22	9,471047E+22
1168	3,756451E+22	3,756589E+22	9,790648E+21	9,790285E+21	7,513039E+22	1,958093E+22	9,471133E+22
1169	3,756582E+22	3,756507E+22	9,790016E+21	9,790801E+21	7,513088E+22	1,958082E+22	9,471170E+22
1170	3,756424E+22	3,756458E+22	9,791086E+21	9,790389E+21	7,512882E+22	1,958147E+22	9,471029E+22
1171	3,756374E+22	3,756508E+22	9,791028E+21	9,791334E+21	7,512882E+22	1,958236E+22	9,471118E+22
1172	3,756478E+22	3,756297E+22	9,791070E+21	9,791510E+21	7,512774E+22	1,958258E+22	9,471032E+22
1173	3,756233E+22	3,756311E+22	9,792366E+21	9,791456E+21	7,512543E+22	1,958382E+22	9,470926E+22
1174	3,756279E+22	3,756307E+22	9,791976E+21	9,792690E+21	7,512587E+22	1,958467E+22	9,471053E+22
1175	3,756259E+22	3,756125E+22	9,792575E+21	9,792521E+21	7,512384E+22	1,958510E+22	9,470894E+22
1176	3,756041E+22	3,756212E+22	9,793277E+21	9,792825E+21	7,512253E+22	1,958610E+22	9,470863E+22
1177	3,756191E+22	3,756134E+22	9,792597E+21	9,793469E+21	7,512325E+22	1,958607E+22	9,470932E+22
1178	3,756116E+22	3,756047E+22	9,793357E+21	9,792652E+21	7,512163E+22	1,958601E+22	9,470764E+22
1179	3,756056E+22	3,756194E+22	9,793112E+21	9,792931E+21	7,512250E+22	1,958604E+22	9,470854E+22
1180	3,756237E+22	3,756105E+22	9,792328E+21	9,792888E+21	7,512342E+22	1,958522E+22	9,470863E+22
1181	3,756064E+22	3,756173E+22	9,792959E+21	9,792077E+21	7,512237E+22	1,958504E+22	9,470740E+22
1182	3,756175E+22	3,756294E+22	9,792054E+21	9,792550E+21	7,512469E+22	1,958460E+22	9,470930E+22
1183	3,756332E+22	3,756176E+22	9,791727E+21	9,791778E+21	7,512508E+22	1,958351E+22	9,470859E+22
1184	3,756211E+22	3,756314E+22	9,792042E+21	9,791240E+21	7,512526E+22	1,958328E+22	9,470854E+22
1185	3,756409E+22	3,756360E+22	9,791005E+21	9,791709E+21	7,512770E+22	1,958271E+22	9,471041E+22
1186	3,756385E+22	3,756289E+22	9,791436E+21	9,791012E+21	7,512674E+22	1,958245E+22	9,470919E+22
1187	3,756245E+22	3,756445E+22	9,791647E+21	9,791323E+21	7,512690E+22	1,958297E+22	9,470987E+22
1188	3,756399E+22	3,756338E+22	9,791074E+21	9,791894E+21	7,512737E+22	1,958297E+22	9,471034E+22
1189	3,756224E+22	3,756252E+22	9,792244E+21	9,791504E+21	7,512476E+22	1,958375E+22	9,470850E+22
1190	3,756204E+22	3,756307E+22	9,792247E+21	9,792409E+21	7,512511E+22	1,958466E+22	9,470977E+22
1191	3,756299E+22	3,756103E+22	9,792326E+21	9,792694E+21	7,512402E+22	1,958502E+22	9,470904E+22
1192	3,756044E+22	3,756114E+22	9,793439E+21	9,792750E+21	7,512157E+22	1,958619E+22	9,470776E+22
1193	3,756089E+22	3,756125E+22	9,793042E+21	9,793924E+21	7,512215E+22	1,958697E+22	9,470911E+22
1194	3,756066E+22	3,755937E+22	9,793686E+21	9,793725E+21	7,512003E+22	1,958741E+22	9,470744E+22
1195	3,755879E+22	3,756031E+22	9,794309E+21	9,793744E+21	7,511910E+22	1,958805E+22	9,470715E+22
1196	3,756050E+22	3,755966E+22	9,793593E+21	9,794336E+21	7,512016E+22	1,958793E+22	9,470809E+22
1197	3,755930E+22	3,755885E+22	9,794369E+21	9,793592E+21	7,511814E+22	1,958796E+22	9,470610E+22
1198	3,755868E+22	3,756052E+22	9,794119E+21	9,793879E+21	7,511920E+22	1,958800E+22	9,470720E+22
1199	3,756050E+22	3,755958E+22	9,793351E+21	9,793886E+21	7,512008E+22	1,958724E+22	9,470731E+22
1200	3,755915E+22	3,755992E+22	9,793779E+21	9,793027E+21	7,511907E+22	1,958681E+22	9,470588E+22
1201	3,756057E+22	3,756122E+22	9,792873E+21	9,793357E+21	7,512178E+22	1,958623E+22	9,470801E+22
1202	3,756203E+22	3,756022E+22	9,792593E+21	9,792642E+21	7,512225E+22	1,958524E+22	9,470748E+22
1203	3,756073E+22	3,756182E+22	9,792888E+21	9,792056E+21	7,512255E+22	1,958494E+22	9,470750E+22
1204	3,756247E+22	3,756241E+22	9,791906E+21	9,792682E+21	7,512488E+22	1,958459E+22	9,470947E+22
1205	3,756170E+22	3,756134E+22	9,792484E+21	9,792140E+21	7,512304E+22	1,958462E+22	9,470767E+22
1206	3,756053E+22	3,756263E+22	9,792814E+21	9,792397E+21	7,512317E+22	1,958521E+22	9,470838E+22
1207	3,756226E+22	3,756135E+22	9,792303E+21	9,792980E+21	7,512361E+22	1,958528E+22	9,470889E+22
1208	3,756066E+22	3,756023E+22	9,793303E+21	9,792634E+21	7,512089E+22	1,958594E+22	9,470682E+22
1209	3,756040E+22	3,756109E+22	9,793315E+21	9,793555E+21	7,512150E+22	1,958687E+22	9,470836E+22
1210	3,756096E+22	3,755930E+22	9,793422E+21	9,793976E+21	7,512026E+22	1,958740E+22	9,470766E+22
1211	3,755848E+22	3,755948E+22	9,794511E+21	9,793888E+21	7,511795E+22	1,958840E+22	9,470635E+22
1212	3,755919E+22	3,755959E+22	9,794146E+21	9,794974E+21	7,511878E+22	1,958912E+22	9,470790E+22
1213	3,755873E+22	3,755751E+22	9,794865E+21	9,794738E+21	7,511624E+22	1,958960E+22	9,470584E+22
1214	3,755706E+22	3,755858E+22	9,795504E+21	9,794672E+21	7,511564E+22	1,959018E+22	9,470582E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1215	3,755864E+22	3,755801E+22	9,794745E+21	9,795355E+21	7,511666E+22	1,959010E+22	9,470676E+22
1216	3,755735E+22	3,755702E+22	9,795275E+21	9,794724E+21	7,511437E+22	1,959000E+22	9,470437E+22
1217	3,755699E+22	3,755875E+22	9,794988E+21	9,794932E+21	7,511574E+22	1,958992E+22	9,470566E+22
1218	3,755896E+22	3,755781E+22	9,794215E+21	9,794880E+21	7,511677E+22	1,958909E+22	9,470586E+22
1219	3,755804E+22	3,755832E+22	9,794553E+21	9,793779E+21	7,511635E+22	1,958833E+22	9,470468E+22
1220	3,755954E+22	3,755989E+22	9,793675E+21	9,794078E+21	7,511943E+22	1,958775E+22	9,470719E+22
1221	3,756031E+22	3,755898E+22	9,793514E+21	9,793510E+21	7,511928E+22	1,958702E+22	9,470631E+22
1222	3,755884E+22	3,756061E+22	9,793922E+21	9,792997E+21	7,511946E+22	1,958692E+22	9,470638E+22
1223	3,756042E+22	3,756092E+22	9,793048E+21	9,793730E+21	7,512134E+22	1,958678E+22	9,470812E+22
1224	3,755989E+22	3,755928E+22	9,793503E+21	9,793260E+21	7,511917E+22	1,958676E+22	9,470593E+22
1225	3,755907E+22	3,756045E+22	9,793860E+21	9,793457E+21	7,511952E+22	1,958732E+22	9,470684E+22
1226	3,756065E+22	3,755932E+22	9,793381E+21	9,794137E+21	7,511997E+22	1,958752E+22	9,470749E+22
1227	3,755908E+22	3,755846E+22	9,794290E+21	9,793751E+21	7,511755E+22	1,958804E+22	9,470559E+22
1228	3,755865E+22	3,755957E+22	9,794349E+21	9,794730E+21	7,511822E+22	1,958908E+22	9,470730E+22
1229	3,755877E+22	3,755765E+22	9,794616E+21	9,795193E+21	7,511642E+22	1,958981E+22	9,470623E+22
1230	3,755658E+22	3,755766E+22	9,795802E+21	9,794947E+21	7,511424E+22	1,959075E+22	9,470499E+22
1231	3,755731E+22	3,755772E+22	9,795472E+21	9,795986E+21	7,511503E+22	1,959146E+22	9,470648E+22
1232	3,755689E+22	3,755544E+22	9,795955E+21	9,795810E+21	7,511233E+22	1,959176E+22	9,470409E+22
1233	3,755518E+22	3,755664E+22	9,796520E+21	9,795761E+21	7,511183E+22	1,959228E+22	9,470411E+22
1234	3,755654E+22	3,755630E+22	9,795702E+21	9,796523E+21	7,511284E+22	1,959222E+22	9,470507E+22
1235	3,755570E+22	3,755533E+22	9,796078E+21	9,795707E+21	7,511104E+22	1,959178E+22	9,470282E+22
1236	3,755578E+22	3,755719E+22	9,795782E+21	9,795766E+21	7,511298E+22	1,959155E+22	9,470453E+22
1237	3,755759E+22	3,755633E+22	9,795103E+21	9,795666E+21	7,511392E+22	1,959077E+22	9,470468E+22
1238	3,755679E+22	3,755701E+22	9,795514E+21	9,794507E+21	7,511380E+22	1,959002E+22	9,470383E+22
1239	3,755793E+22	3,755873E+22	9,794704E+21	9,794944E+21	7,511666E+22	1,958965E+22	9,470631E+22
1240	3,755842E+22	3,755744E+22	9,794414E+21	9,794579E+21	7,511586E+22	1,958899E+22	9,470485E+22
1241	3,755710E+22	3,755877E+22	9,794901E+21	9,794085E+21	7,511587E+22	1,958899E+22	9,470486E+22
1242	3,755868E+22	3,755893E+22	9,794071E+21	9,794825E+21	7,511761E+22	1,958890E+22	9,470650E+22
1243	3,755854E+22	3,755728E+22	9,794431E+21	9,794230E+21	7,511582E+22	1,958866E+22	9,470448E+22
1244	3,755779E+22	3,755871E+22	9,794819E+21	9,794440E+21	7,511650E+22	1,958926E+22	9,470576E+22
1245	3,755869E+22	3,755772E+22	9,794484E+21	9,795266E+21	7,511641E+22	1,958975E+22	9,470616E+22
1246	3,755703E+22	3,755701E+22	9,795506E+21	9,794892E+21	7,511404E+22	1,959040E+22	9,470443E+22
1247	3,755652E+22	3,755794E+22	9,795669E+21	9,795889E+21	7,511446E+22	1,959156E+22	9,470602E+22
1248	3,755671E+22	3,755553E+22	9,795820E+21	9,796377E+21	7,511224E+22	1,959220E+22	9,470444E+22
1249	3,755483E+22	3,755546E+22	9,797003E+21	9,796066E+21	7,511029E+22	1,959307E+22	9,470336E+22
1250	3,755535E+22	3,755566E+22	9,796620E+21	9,797144E+21	7,511101E+22	1,959376E+22	9,470477E+22
1251	3,755507E+22	3,755358E+22	9,796894E+21	9,796936E+21	7,510866E+22	1,959383E+22	9,470249E+22
1252	3,755348E+22	3,755499E+22	9,797382E+21	9,796856E+21	7,510847E+22	1,959424E+22	9,470271E+22
1253	3,755468E+22	3,755461E+22	9,796655E+21	9,797563E+21	7,510928E+22	1,959422E+22	9,470350E+22
1254	3,755437E+22	3,755377E+22	9,797054E+21	9,796515E+21	7,510814E+22	1,959357E+22	9,470171E+22
1255	3,755456E+22	3,755576E+22	9,796795E+21	9,796502E+21	7,511032E+22	1,959330E+22	9,470361E+22
1256	3,755616E+22	3,755483E+22	9,795985E+21	9,796488E+21	7,511099E+22	1,959247E+22	9,470347E+22
1257	3,755523E+22	3,755558E+22	9,796423E+21	9,795427E+21	7,511081E+22	1,959185E+22	9,470266E+22
1258	3,755590E+22	3,755730E+22	9,795653E+21	9,795974E+21	7,511320E+22	1,959163E+22	9,470483E+22
1259	3,755675E+22	3,755578E+22	9,795267E+21	9,795566E+21	7,511253E+22	1,959083E+22	9,470336E+22
1260	3,755576E+22	3,755698E+22	9,795778E+21	9,795016E+21	7,511274E+22	1,959079E+22	9,470353E+22
1261	3,755711E+22	3,755714E+22	9,795097E+21	9,795805E+21	7,511425E+22	1,959090E+22	9,470515E+22
1262	3,755709E+22	3,755565E+22	9,795515E+21	9,795199E+21	7,511275E+22	1,959071E+22	9,470346E+22
1263	3,755595E+22	3,755725E+22	9,795985E+21	9,795559E+21	7,511320E+22	1,959154E+22	9,470474E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1264	3,755657E+22	3,755597E+22	9,795582E+21	9,796534E+21	7,511254E+22	1,959212E+22	9,470465E+22
1265	3,755512E+22	3,755492E+22	9,796711E+21	9,796137E+21	7,511004E+22	1,959285E+22	9,470289E+22
1266	3,755451E+22	3,755582E+22	9,796915E+21	9,797061E+21	7,511033E+22	1,959398E+22	9,470431E+22
1267	3,755508E+22	3,755341E+22	9,796902E+21	9,797444E+21	7,510848E+22	1,959435E+22	9,470283E+22
1268	3,755319E+22	3,755355E+22	9,798021E+21	9,797118E+21	7,510675E+22	1,959514E+22	9,470188E+22
1269	3,755315E+22	3,755395E+22	9,797691E+21	9,798279E+21	7,510710E+22	1,959597E+22	9,470307E+22
1270	3,755308E+22	3,755201E+22	9,797961E+21	9,797985E+21	7,510510E+22	1,959595E+22	9,470104E+22
1271	3,755174E+22	3,755341E+22	9,798463E+21	9,797842E+21	7,510516E+22	1,959631E+22	9,470146E+22
1272	3,755315E+22	3,755280E+22	9,797613E+21	9,798495E+21	7,510595E+22	1,959611E+22	9,470206E+22
1273	3,755320E+22	3,755203E+22	9,798017E+21	9,797375E+21	7,510523E+22	1,959539E+22	9,470062E+22
1274	3,755303E+22	3,755430E+22	9,797743E+21	9,797384E+21	7,510733E+22	1,959513E+22	9,470245E+22
1275	3,755457E+22	3,755350E+22	9,796771E+21	9,797417E+21	7,510807E+22	1,959419E+22	9,470225E+22
1276	3,755362E+22	3,755420E+22	9,797209E+21	9,796402E+21	7,510782E+22	1,959361E+22	9,470143E+22
1277	3,755402E+22	3,755563E+22	9,796604E+21	9,796960E+21	7,510965E+22	1,959356E+22	9,470321E+22
1278	3,755528E+22	3,755409E+22	9,796280E+21	9,796438E+21	7,510937E+22	1,959272E+22	9,470209E+22
1279	3,755441E+22	3,755532E+22	9,796821E+21	9,795923E+21	7,510974E+22	1,959274E+22	9,470248E+22
1280	3,755544E+22	3,755531E+22	9,796093E+21	9,796856E+21	7,511075E+22	1,959295E+22	9,470370E+22
1281	3,755535E+22	3,755394E+22	9,796574E+21	9,796357E+21	7,510928E+22	1,959293E+22	9,470222E+22
1282	3,755383E+22	3,755553E+22	9,797118E+21	9,796751E+21	7,510936E+22	1,959387E+22	9,470323E+22
1283	3,755474E+22	3,755407E+22	9,796653E+21	9,797666E+21	7,510881E+22	1,959432E+22	9,470313E+22
1284	3,755353E+22	3,755297E+22	9,797798E+21	9,797200E+21	7,510650E+22	1,959500E+22	9,470150E+22
1285	3,755254E+22	3,755385E+22	9,798125E+21	9,798143E+21	7,510640E+22	1,959627E+22	9,470266E+22
1286	3,755319E+22	3,755166E+22	9,798110E+21	9,798519E+21	7,510486E+22	1,959663E+22	9,470148E+22
1287	3,755116E+22	3,755191E+22	9,799180E+21	9,798302E+21	7,510306E+22	1,959748E+22	9,470054E+22
1288	3,755103E+22	3,755200E+22	9,798753E+21	9,799506E+21	7,510303E+22	1,959826E+22	9,470129E+22
1289	3,755149E+22	3,754998E+22	9,799023E+21	9,799088E+21	7,510147E+22	1,959811E+22	9,469958E+22
1290	3,755022E+22	3,755158E+22	9,799490E+21	9,798783E+21	7,510180E+22	1,959827E+22	9,470008E+22
1291	3,755197E+22	3,755117E+22	9,798468E+21	9,799323E+21	7,510314E+22	1,959779E+22	9,470093E+22
1292	3,755187E+22	3,755070E+22	9,798815E+21	9,798196E+21	7,510257E+22	1,959701E+22	9,469958E+22
1293	3,755103E+22	3,755309E+22	9,798650E+21	9,798298E+21	7,510412E+22	1,959695E+22	9,470107E+22
1294	3,755271E+22	3,755223E+22	9,797709E+21	9,798290E+21	7,510494E+22	1,959600E+22	9,470094E+22
1295	3,755195E+22	3,755266E+22	9,798187E+21	9,797313E+21	7,510461E+22	1,959550E+22	9,470011E+22
1296	3,755247E+22	3,755371E+22	9,797535E+21	9,797897E+21	7,510618E+22	1,959543E+22	9,470161E+22
1297	3,755408E+22	3,755214E+22	9,797257E+21	9,797407E+21	7,510622E+22	1,959466E+22	9,470088E+22
1298	3,755284E+22	3,755366E+22	9,797812E+21	9,796960E+21	7,510650E+22	1,959477E+22	9,470128E+22
1299	3,755382E+22	3,755374E+22	9,796989E+21	9,797966E+21	7,510757E+22	1,959496E+22	9,470252E+22
1300	3,755366E+22	3,755232E+22	9,797531E+21	9,797475E+21	7,510598E+22	1,959501E+22	9,470099E+22
1301	3,755182E+22	3,755371E+22	9,798294E+21	9,797844E+21	7,510553E+22	1,959614E+22	9,470167E+22
1302	3,755297E+22	3,755226E+22	9,797903E+21	9,798649E+21	7,510523E+22	1,959655E+22	9,470178E+22
1303	3,755173E+22	3,755117E+22	9,799069E+21	9,798279E+21	7,510289E+22	1,959735E+22	9,470024E+22
1304	3,755035E+22	3,755183E+22	9,799315E+21	9,799357E+21	7,510218E+22	1,959867E+22	9,470085E+22
1305	3,755109E+22	3,754967E+22	9,799287E+21	9,799811E+21	7,510076E+22	1,959910E+22	9,469986E+22
1306	3,754901E+22	3,754998E+22	9,800298E+21	9,799529E+21	7,509899E+22	1,959983E+22	9,469882E+22
1307	3,754944E+22	3,755002E+22	9,799720E+21	9,800586E+21	7,509946E+22	1,960031E+22	9,469977E+22
1308	3,755027E+22	3,754828E+22	9,799918E+21	9,799999E+21	7,509855E+22	1,959992E+22	9,469847E+22
1309	3,754871E+22	3,755002E+22	9,800471E+21	9,799639E+21	7,509874E+22	1,960011E+22	9,469885E+22
1310	3,755036E+22	3,754998E+22	9,799447E+21	9,800135E+21	7,510033E+22	1,959958E+22	9,469991E+22
1311	3,755006E+22	3,754957E+22	9,799748E+21	9,799150E+21	7,509962E+22	1,959890E+22	9,469852E+22
1312	3,754900E+22	3,755136E+22	9,799565E+21	9,799312E+21	7,510036E+22	1,959888E+22	9,469924E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1313	3,755120E+22	3,755028E+22	9,798674E+21	9,799255E+21	7,510148E+22	1,959793E+22	9,469941E+22
1314	3,755057E+22	3,755079E+22	9,799110E+21	9,798196E+21	7,510136E+22	1,959731E+22	9,469867E+22
1315	3,755137E+22	3,755193E+22	9,798349E+21	9,798779E+21	7,510329E+22	1,959713E+22	9,470042E+22
1316	3,755278E+22	3,755074E+22	9,798053E+21	9,798333E+21	7,510352E+22	1,959639E+22	9,469991E+22
1317	3,755089E+22	3,755233E+22	9,798789E+21	9,797990E+21	7,510321E+22	1,959678E+22	9,469999E+22
1318	3,755189E+22	3,755240E+22	9,798109E+21	9,798946E+21	7,510429E+22	1,959705E+22	9,470135E+22
1319	3,755181E+22	3,755075E+22	9,798736E+21	9,798543E+21	7,510256E+22	1,959728E+22	9,469984E+22
1320	3,754983E+22	3,755162E+22	9,799530E+21	9,798968E+21	7,510145E+22	1,959850E+22	9,469995E+22
1321	3,755119E+22	3,755009E+22	9,799178E+21	9,799848E+21	7,510128E+22	1,959903E+22	9,470031E+22
1322	3,754961E+22	3,754918E+22	9,800267E+21	9,799552E+21	7,509878E+22	1,959982E+22	9,469860E+22
1323	3,754841E+22	3,754980E+22	9,800332E+21	9,800671E+21	7,509822E+22	1,960100E+22	9,469922E+22
1324	3,754935E+22	3,754770E+22	9,800255E+21	9,801008E+21	7,509705E+22	1,960126E+22	9,469832E+22
1325	3,754727E+22	3,754808E+22	9,801361E+21	9,800586E+21	7,509534E+22	1,960195E+22	9,469729E+22
1326	3,754806E+22	3,754842E+22	9,800792E+21	9,801410E+21	7,509648E+22	1,960220E+22	9,469868E+22
1327	3,754877E+22	3,754693E+22	9,800960E+21	9,800858E+21	7,509570E+22	1,960182E+22	9,469751E+22
1328	3,754673E+22	3,754853E+22	9,801462E+21	9,800579E+21	7,509526E+22	1,960204E+22	9,469730E+22
1329	3,754844E+22	3,754840E+22	9,800448E+21	9,801125E+21	7,509684E+22	1,960157E+22	9,469841E+22
1330	3,754809E+22	3,754791E+22	9,800707E+21	9,800119E+21	7,509600E+22	1,960083E+22	9,469682E+22
1331	3,754763E+22	3,754946E+22	9,800373E+21	9,800228E+21	7,509709E+22	1,960060E+22	9,469769E+22
1332	3,755012E+22	3,754857E+22	9,799438E+21	9,800092E+21	7,509869E+22	1,959953E+22	9,469822E+22
1333	3,754924E+22	3,754926E+22	9,799975E+21	9,799074E+21	7,509850E+22	1,959905E+22	9,469755E+22
1334	3,754989E+22	3,755076E+22	9,799283E+21	9,799657E+21	7,510065E+22	1,959894E+22	9,469959E+22
1335	3,755101E+22	3,754964E+22	9,799047E+21	9,799387E+21	7,510065E+22	1,959843E+22	9,469908E+22
1336	3,754883E+22	3,755056E+22	9,799901E+21	9,799109E+21	7,509939E+22	1,959901E+22	9,469840E+22
1337	3,755014E+22	3,755037E+22	9,799351E+21	9,800046E+21	7,510050E+22	1,959940E+22	9,469990E+22
1338	3,754998E+22	3,754871E+22	9,799966E+21	9,799654E+21	7,509869E+22	1,959962E+22	9,469831E+22
1339	3,754813E+22	3,754945E+22	9,800625E+21	9,800156E+21	7,509758E+22	1,960078E+22	9,469836E+22
1340	3,754932E+22	3,754823E+22	9,800199E+21	9,801069E+21	7,509755E+22	1,960127E+22	9,469881E+22
1341	3,754744E+22	3,754731E+22	9,801340E+21	9,800793E+21	7,509474E+22	1,960213E+22	9,469687E+22
1342	3,754651E+22	3,754804E+22	9,801464E+21	9,801734E+21	7,509455E+22	1,960320E+22	9,469774E+22
1343	3,754772E+22	3,754611E+22	9,801372E+21	9,802030E+21	7,509383E+22	1,960340E+22	9,469723E+22
1344	3,754555E+22	3,754617E+22	9,802489E+21	9,801561E+21	7,509172E+22	1,960405E+22	9,469577E+22
1345	3,754647E+22	3,754669E+22	9,801959E+21	9,802379E+21	7,509316E+22	1,960434E+22	9,469750E+22
1346	3,754679E+22	3,754547E+22	9,802010E+21	9,801878E+21	7,509225E+22	1,960389E+22	9,469614E+22
1347	3,754489E+22	3,754680E+22	9,802322E+21	9,801655E+21	7,509169E+22	1,960398E+22	9,469567E+22
1348	3,754680E+22	3,754667E+22	9,801245E+21	9,802085E+21	7,509347E+22	1,960333E+22	9,469680E+22
1349	3,754659E+22	3,754612E+22	9,801554E+21	9,800999E+21	7,509270E+22	1,960255E+22	9,469526E+22
1350	3,754650E+22	3,754795E+22	9,801251E+21	9,800958E+21	7,509445E+22	1,960221E+22	9,469666E+22
1351	3,754887E+22	3,754740E+22	9,800317E+21	9,800936E+21	7,509628E+22	1,960125E+22	9,469753E+22
1352	3,754746E+22	3,754789E+22	9,800906E+21	9,800052E+21	7,509535E+22	1,960096E+22	9,469631E+22
1353	3,754811E+22	3,754927E+22	9,800349E+21	9,800688E+21	7,509738E+22	1,960104E+22	9,469842E+22
1354	3,754904E+22	3,754802E+22	9,800159E+21	9,800433E+21	7,509706E+22	1,960059E+22	9,469765E+22
1355	3,754727E+22	3,754852E+22	9,800938E+21	9,800193E+21	7,509580E+22	1,960113E+22	9,469693E+22
1356	3,754862E+22	3,754836E+22	9,800382E+21	9,801087E+21	7,509698E+22	1,960147E+22	9,469845E+22
1357	3,754812E+22	3,754679E+22	9,801076E+21	9,800812E+21	7,509491E+22	1,960189E+22	9,469680E+22
1358	3,754623E+22	3,754776E+22	9,801726E+21	9,801304E+21	7,509399E+22	1,960303E+22	9,469702E+22
1359	3,754727E+22	3,754658E+22	9,801310E+21	9,802316E+21	7,509385E+22	1,960363E+22	9,469748E+22
1360	3,754536E+22	3,754521E+22	9,802515E+21	9,801990E+21	7,509057E+22	1,960450E+22	9,469507E+22
1361	3,754490E+22	3,754595E+22	9,802718E+21	9,802796E+21	7,509085E+22	1,960551E+22	9,469636E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1362	3,754597E+22	3,754433E+22	9,802583E+21	9,803020E+21	7,509030E+22	1,960560E+22	9,469590E+22
1363	3,754391E+22	3,754437E+22	9,803513E+21	9,802614E+21	7,508828E+22	1,960613E+22	9,469440E+22
1364	3,754455E+22	3,754515E+22	9,802884E+21	9,803400E+21	7,508970E+22	1,960628E+22	9,469598E+22
1365	3,754465E+22	3,754388E+22	9,802950E+21	9,802932E+21	7,508853E+22	1,960588E+22	9,469441E+22
1366	3,754318E+22	3,754518E+22	9,803239E+21	9,802541E+21	7,508836E+22	1,960578E+22	9,469414E+22
1367	3,754543E+22	3,754517E+22	9,802126E+21	9,802957E+21	7,509060E+22	1,960508E+22	9,469569E+22
1368	3,754523E+22	3,754437E+22	9,802453E+21	9,801869E+21	7,508960E+22	1,960432E+22	9,469392E+22
1369	3,754528E+22	3,754641E+22	9,802224E+21	9,801854E+21	7,509169E+22	1,960408E+22	9,469576E+22
1370	3,754719E+22	3,754619E+22	9,801266E+21	9,801905E+21	7,509338E+22	1,960317E+22	9,469655E+22
1371	3,754587E+22	3,754624E+22	9,801780E+21	9,801128E+21	7,509211E+22	1,960291E+22	9,469502E+22
1372	3,754653E+22	3,754755E+22	9,801284E+21	9,801655E+21	7,509408E+22	1,960294E+22	9,469701E+22
1373	3,754742E+22	3,754615E+22	9,801189E+21	9,801414E+21	7,509357E+22	1,960260E+22	9,469617E+22
1374	3,754573E+22	3,754672E+22	9,802025E+21	9,801121E+21	7,509246E+22	1,960315E+22	9,469560E+22
1375	3,754682E+22	3,754684E+22	9,801469E+21	9,802175E+21	7,509366E+22	1,960364E+22	9,469730E+22
1376	3,754587E+22	3,754492E+22	9,802212E+21	9,802039E+21	7,509079E+22	1,960425E+22	9,469504E+22
1377	3,754419E+22	3,754578E+22	9,802966E+21	9,802530E+21	7,508997E+22	1,960550E+22	9,469547E+22
1378	3,754523E+22	3,754469E+22	9,802555E+21	9,803475E+21	7,508992E+22	1,960603E+22	9,469595E+22
1379	3,754379E+22	3,754306E+22	9,803623E+21	9,803140E+21	7,508685E+22	1,960676E+22	9,469361E+22
1380	3,754337E+22	3,754406E+22	9,803794E+21	9,803817E+21	7,508743E+22	1,960761E+22	9,469504E+22
1381	3,754409E+22	3,754267E+22	9,803661E+21	9,804110E+21	7,508676E+22	1,960777E+22	9,469453E+22
1382	3,754196E+22	3,754291E+22	9,804519E+21	9,803662E+21	7,508488E+22	1,960818E+22	9,469306E+22
1383	3,754257E+22	3,754369E+22	9,803841E+21	9,804466E+21	7,508626E+22	1,960831E+22	9,469457E+22
1384	3,754277E+22	3,754191E+22	9,803932E+21	9,803938E+21	7,508468E+22	1,960787E+22	9,469255E+22
1385	3,754195E+22	3,754323E+22	9,804240E+21	9,803415E+21	7,508518E+22	1,960766E+22	9,469283E+22
1386	3,754410E+22	3,754361E+22	9,803090E+21	9,803777E+21	7,508772E+22	1,960687E+22	9,469459E+22
1387	3,754403E+22	3,754284E+22	9,803243E+21	9,802796E+21	7,508687E+22	1,960604E+22	9,469291E+22
1388	3,754380E+22	3,754509E+22	9,803001E+21	9,802735E+21	7,508890E+22	1,960574E+22	9,469463E+22
1389	3,754536E+22	3,754481E+22	9,802165E+21	9,802843E+21	7,509017E+22	1,960501E+22	9,469518E+22
1390	3,754428E+22	3,754477E+22	9,802735E+21	9,801987E+21	7,508905E+22	1,960472E+22	9,469378E+22
1391	3,754492E+22	3,754602E+22	9,802299E+21	9,802567E+21	7,509094E+22	1,960487E+22	9,469581E+22
1392	3,754559E+22	3,754422E+22	9,802321E+21	9,802462E+21	7,508982E+22	1,960478E+22	9,469460E+22
1393	3,754400E+22	3,754482E+22	9,803214E+21	9,802273E+21	7,508882E+22	1,960549E+22	9,469431E+22
1394	3,754465E+22	3,754512E+22	9,802646E+21	9,803426E+21	7,508977E+22	1,960607E+22	9,469584E+22
1395	3,754399E+22	3,754277E+22	9,803266E+21	9,803370E+21	7,508676E+22	1,960664E+22	9,469340E+22
1396	3,754251E+22	3,754365E+22	9,804034E+21	9,803676E+21	7,508617E+22	1,960771E+22	9,469388E+22
1397	3,754354E+22	3,754271E+22	9,803703E+21	9,804572E+21	7,508626E+22	1,960827E+22	9,469453E+22
1398	3,754220E+22	3,754136E+22	9,804757E+21	9,804145E+21	7,508356E+22	1,960890E+22	9,469246E+22
1399	3,754143E+22	3,754269E+22	9,804889E+21	9,804881E+21	7,508412E+22	1,960977E+22	9,469389E+22
1400	3,754177E+22	3,754094E+22	9,804776E+21	9,805251E+21	7,508271E+22	1,961003E+22	9,469274E+22
1401	3,753999E+22	3,754101E+22	9,805645E+21	9,804735E+21	7,508100E+22	1,961038E+22	9,469138E+22
1402	3,754074E+22	3,754191E+22	9,804903E+21	9,805423E+21	7,508265E+22	1,961033E+22	9,469297E+22
1403	3,754156E+22	3,753988E+22	9,804794E+21	9,804891E+21	7,508144E+22	1,960969E+22	9,469112E+22
1404	3,754087E+22	3,754157E+22	9,805046E+21	9,804245E+21	7,508244E+22	1,960929E+22	9,469173E+22
1405	3,754269E+22	3,754233E+22	9,803914E+21	9,804675E+21	7,508502E+22	1,960859E+22	9,469360E+22
1406	3,754247E+22	3,754172E+22	9,804048E+21	9,803674E+21	7,508418E+22	1,960772E+22	9,469191E+22
1407	3,754211E+22	3,754393E+22	9,803870E+21	9,803619E+21	7,508604E+22	1,960749E+22	9,469352E+22
1408	3,754356E+22	3,754306E+22	9,803182E+21	9,803746E+21	7,508662E+22	1,960693E+22	9,469355E+22
1409	3,754283E+22	3,754288E+22	9,803858E+21	9,802903E+21	7,508571E+22	1,960676E+22	9,469247E+22
1410	3,754315E+22	3,754434E+22	9,803440E+21	9,803557E+21	7,508748E+22	1,960700E+22	9,469448E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude °	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1411	3,754382E+22	3,754230E+22	9,803312E+21	9,803682E+21	7,508612E+22	1,960699E+22	9,469312E+22
1412	3,754214E+22	3,754296E+22	9,804183E+21	9,803469E+21	7,508510E+22	1,960765E+22	9,469275E+22
1413	3,754268E+22	3,754321E+22	9,803720E+21	9,804632E+21	7,508589E+22	1,960835E+22	9,469424E+22
1414	3,754237E+22	3,754095E+22	9,804350E+21	9,804439E+21	7,508332E+22	1,960879E+22	9,469211E+22
1415	3,754095E+22	3,754199E+22	9,805154E+21	9,804697E+21	7,508294E+22	1,960985E+22	9,469279E+22
1416	3,754163E+22	3,754085E+22	9,804953E+21	9,805664E+21	7,508248E+22	1,961062E+22	9,469310E+22
1417	3,754028E+22	3,753963E+22	9,806018E+21	9,805303E+21	7,507991E+22	1,961132E+22	9,469123E+22
1418	3,753908E+22	3,754104E+22	9,806099E+21	9,806055E+21	7,508012E+22	1,961215E+22	9,469227E+22
1419	3,753983E+22	3,753880E+22	9,805800E+21	9,806464E+21	7,507862E+22	1,961226E+22	9,469089E+22
1420	3,753852E+22	3,753885E+22	9,806557E+21	9,805711E+21	7,507737E+22	1,961227E+22	9,468964E+22
1421	3,753936E+22	3,754001E+22	9,805824E+21	9,806321E+21	7,507937E+22	1,961215E+22	9,469152E+22
1422	3,754034E+22	3,753852E+22	9,805614E+21	9,805691E+21	7,507886E+22	1,961131E+22	9,469017E+22
1423	3,753938E+22	3,754057E+22	9,805836E+21	9,805078E+21	7,507995E+22	1,961091E+22	9,469086E+22
1424	3,754073E+22	3,754105E+22	9,804853E+21	9,805579E+21	7,508178E+22	1,961043E+22	9,469221E+22
1425	3,754077E+22	3,754025E+22	9,805070E+21	9,804569E+21	7,508102E+22	1,960964E+22	9,469066E+22
1426	3,754030E+22	3,754239E+22	9,804934E+21	9,804487E+21	7,508269E+22	1,960942E+22	9,469211E+22
1427	3,754211E+22	3,754106E+22	9,804134E+21	9,804759E+21	7,508318E+22	1,960889E+22	9,469207E+22
1428	3,754143E+22	3,754096E+22	9,804781E+21	9,803924E+21	7,508239E+22	1,960870E+22	9,469110E+22
1429	3,754139E+22	3,754262E+22	9,804412E+21	9,804719E+21	7,508401E+22	1,960913E+22	9,469315E+22
1430	3,754207E+22	3,754070E+22	9,804251E+21	9,804844E+21	7,508277E+22	1,960910E+22	9,469186E+22
1431	3,754043E+22	3,754132E+22	9,805179E+21	9,804577E+21	7,508175E+22	1,960976E+22	9,469151E+22
1432	3,754090E+22	3,754121E+22	9,804922E+21	9,805700E+21	7,508210E+22	1,961062E+22	9,469272E+22
1433	3,754080E+22	3,753906E+22	9,805650E+21	9,805474E+21	7,507986E+22	1,961112E+22	9,469098E+22
1434	3,753894E+22	3,754040E+22	9,806477E+21	9,805768E+21	7,507934E+22	1,961225E+22	9,469158E+22
1435	3,753952E+22	3,753892E+22	9,806110E+21	9,806922E+21	7,507844E+22	1,961303E+22	9,469147E+22
1436	3,753812E+22	3,753766E+22	9,807098E+21	9,806503E+21	7,507578E+22	1,961360E+22	9,468938E+22
1437	3,753700E+22	3,753902E+22	9,807154E+21	9,807197E+21	7,507601E+22	1,961435E+22	9,469036E+22
1438	3,753823E+22	3,753689E+22	9,806734E+21	9,807441E+21	7,507512E+22	1,961417E+22	9,468930E+22
1439	3,753723E+22	3,753727E+22	9,807419E+21	9,806582E+21	7,507450E+22	1,961400E+22	9,468850E+22
1440	3,753786E+22	3,753844E+22	9,806799E+21	9,807216E+21	7,507630E+22	1,961402E+22	9,469032E+22
1441	3,753881E+22	3,753729E+22	9,806586E+21	9,806608E+21	7,507610E+22	1,961319E+22	9,468930E+22
1442	3,753748E+22	3,753942E+22	9,806818E+21	9,805994E+21	7,507690E+22	1,961281E+22	9,468971E+22
1443	3,753908E+22	3,753926E+22	9,805748E+21	9,806556E+21	7,507834E+22	1,961230E+22	9,469064E+22
1444	3,753942E+22	3,753835E+22	9,805948E+21	9,805443E+21	7,507777E+22	1,961139E+22	9,468916E+22
1445	3,753886E+22	3,754055E+22	9,805867E+21	9,805406E+21	7,507941E+22	1,961127E+22	9,469069E+22
1446	3,754066E+22	3,753953E+22	9,805009E+21	9,805717E+21	7,508019E+22	1,961073E+22	9,469092E+22
1447	3,753980E+22	3,753962E+22	9,805630E+21	9,804951E+21	7,507942E+22	1,961058E+22	9,469000E+22
1448	3,753940E+22	3,754091E+22	9,805484E+21	9,805817E+21	7,508032E+22	1,961130E+22	9,469162E+22
1449	3,754035E+22	3,753900E+22	9,805423E+21	9,805905E+21	7,507935E+22	1,961133E+22	9,469068E+22
1450	3,753861E+22	3,753962E+22	9,806441E+21	9,805601E+21	7,507823E+22	1,961204E+22	9,469027E+22
1451	3,753920E+22	3,753914E+22	9,806142E+21	9,806856E+21	7,507834E+22	1,961300E+22	9,469134E+22
1452	3,753902E+22	3,753711E+22	9,806828E+21	9,806656E+21	7,507613E+22	1,961348E+22	9,468961E+22
1453	3,753667E+22	3,753852E+22	9,807647E+21	9,807064E+21	7,507519E+22	1,961471E+22	9,468990E+22
1454	3,753733E+22	3,753708E+22	9,807162E+21	9,808166E+21	7,507441E+22	1,961533E+22	9,468974E+22
1455	3,753626E+22	3,753571E+22	9,808073E+21	9,807606E+21	7,507197E+22	1,961568E+22	9,468765E+22
1456	3,753528E+22	3,753685E+22	9,808255E+21	9,808199E+21	7,507213E+22	1,961645E+22	9,468859E+22
1457	3,753687E+22	3,753518E+22	9,807811E+21	9,808345E+21	7,507205E+22	1,961616E+22	9,468821E+22
1458	3,753559E+22	3,753599E+22	9,808457E+21	9,807479E+21	7,507158E+22	1,961594E+22	9,468752E+22
1459	3,753616E+22	3,753693E+22	9,807713E+21	9,808231E+21	7,507309E+22	1,961594E+22	9,468904E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
1460	3,753712E+22	3,753578E+22	9,807455E+21	9,807536E+21	7,507290E+22	1,961499E+22	9,468789E+22
1461	3,753578E+22	3,753779E+22	9,807722E+21	9,806893E+21	7,507357E+22	1,961462E+22	9,468818E+22
1462	3,753768E+22	3,753766E+22	9,806578E+21	9,807371E+21	7,507533E+22	1,961395E+22	9,468928E+22
1463	3,753815E+22	3,753686E+22	9,806763E+21	9,806278E+21	7,507501E+22	1,961304E+22	9,468805E+22
1464	3,753728E+22	3,753891E+22	9,806860E+21	9,806381E+21	7,507619E+22	1,961324E+22	9,468943E+22
1465	3,753896E+22	3,753814E+22	9,806042E+21	9,806780E+21	7,507710E+22	1,961282E+22	9,468992E+22
1466	3,753789E+22	3,753820E+22	9,806713E+21	9,806042E+21	7,507609E+22	1,961276E+22	9,468885E+22
1467	3,753775E+22	3,753883E+22	9,806557E+21	9,806949E+21	7,507658E+22	1,961351E+22	9,469009E+22
1468	3,753884E+22	3,753695E+22	9,806533E+21	9,806946E+21	7,507579E+22	1,961348E+22	9,468927E+22
1469	3,753686E+22	3,753772E+22	9,807616E+21	9,806705E+21	7,507458E+22	1,961432E+22	9,468890E+22
1470	3,753723E+22	3,753743E+22	9,807252E+21	9,808001E+21	7,507466E+22	1,961525E+22	9,468991E+22
1471	3,753685E+22	3,753550E+22	9,807891E+21	9,807859E+21	7,507235E+22	1,961575E+22	9,468810E+22
1472	3,753434E+22	3,753644E+22	9,808852E+21	9,808285E+21	7,507079E+22	1,961714E+22	9,468792E+22
1473	3,753538E+22	3,753510E+22	9,808356E+21	9,809267E+21	7,507048E+22	1,961762E+22	9,468810E+22
1474	3,753455E+22	3,753388E+22	9,809213E+21	9,808610E+21	7,506843E+22	1,961782E+22	9,468625E+22
1475	3,753387E+22	3,753478E+22	9,809293E+21	9,809244E+21	7,506865E+22	1,961854E+22	9,468719E+22
1476	3,753544E+22	3,753356E+22	9,808774E+21	9,809345E+21	7,506901E+22	1,961812E+22	9,468713E+22
1477	3,753380E+22	3,753460E+22	9,809385E+21	9,808524E+21	7,506840E+22	1,961791E+22	9,468631E+22
1478	3,753443E+22	3,753552E+22	9,808563E+21	9,809170E+21	7,506995E+22	1,961773E+22	9,468768E+22
1479	3,753565E+22	3,753427E+22	9,808259E+21	9,808355E+21	7,506992E+22	1,961661E+22	9,468653E+22
1480	3,753427E+22	3,753595E+22	9,808697E+21	9,807713E+21	7,507022E+22	1,961641E+22	9,468663E+22
1481	3,753625E+22	3,753620E+22	9,807574E+21	9,808199E+21	7,507246E+22	1,961577E+22	9,468823E+22
1482	3,753645E+22	3,753558E+22	9,807751E+21	9,807227E+21	7,507203E+22	1,961498E+22	9,468701E+22
1483	3,753551E+22	3,753718E+22	9,807813E+21	9,807509E+21	7,507269E+22	1,961532E+22	9,468801E+22
1484	3,753730E+22	3,753637E+22	9,807007E+21	9,807855E+21	7,507367E+22	1,961486E+22	9,468854E+22
1485	3,753618E+22	3,753633E+22	9,807746E+21	9,807110E+21	7,507250E+22	1,961486E+22	9,468736E+22
1486	3,753623E+22	3,753703E+22	9,807577E+21	9,807942E+21	7,507326E+22	1,961552E+22	9,468878E+22
1487	3,753730E+22	3,753528E+22	9,807569E+21	9,807968E+21	7,507258E+22	1,961554E+22	9,468812E+22
1488	3,753483E+22	3,753587E+22	9,808849E+21	9,807893E+21	7,507069E+22	1,961674E+22	9,468744E+22
1489	3,753498E+22	3,753581E+22	9,808491E+21	9,809227E+21	7,507078E+22	1,961772E+22	9,468850E+22
1490	3,753458E+22	3,753365E+22	9,809128E+21	9,809093E+21	7,506823E+22	1,961822E+22	9,468646E+22
1491	3,753252E+22	3,753396E+22	9,810009E+21	9,809500E+21	7,506647E+22	1,961951E+22	9,468598E+22
1492	3,753393E+22	3,753285E+22	9,809455E+21	9,810324E+21	7,506678E+22	1,961978E+22	9,468656E+22
1493	3,753300E+22	3,753206E+22	9,810265E+21	9,809655E+21	7,506506E+22	1,961992E+22	9,468498E+22
1494	3,753225E+22	3,753335E+22	9,810214E+21	9,810240E+21	7,506560E+22	1,962045E+22	9,468606E+22
1495	3,753367E+22	3,753237E+22	9,809632E+21	9,810283E+21	7,506605E+22	1,961991E+22	9,468596E+22
1496	3,753189E+22	3,753304E+22	9,810396E+21	9,809457E+21	7,506493E+22	1,961985E+22	9,468478E+22
1497	3,753271E+22	3,753405E+22	9,809583E+21	9,809974E+21	7,506676E+22	1,961956E+22	9,468632E+22
1498	3,753407E+22	3,753281E+22	9,809263E+21	9,809185E+21	7,506689E+22	1,961845E+22	9,468534E+22
1499	3,753291E+22	3,753400E+22	9,809618E+21	9,808685E+21	7,506690E+22	1,961830E+22	9,468521E+22
1500	3,753479E+22	3,753454E+22	9,808461E+21	9,809219E+21	7,506932E+22	1,961768E+22	9,468700E+22
1501	3,753474E+22	3,753406E+22	9,808612E+21	9,808331E+21	7,506880E+22	1,961694E+22	9,468575E+22
1502	3,753398E+22	3,753550E+22	9,808643E+21	9,808522E+21	7,506947E+22	1,961717E+22	9,468664E+22
1503	3,753596E+22	3,753472E+22	9,807887E+21	9,808743E+21	7,507068E+22	1,961663E+22	9,468731E+22
1504	3,753467E+22	3,753447E+22	9,808869E+21	9,808055E+21	7,506914E+22	1,961692E+22	9,468606E+22
1505	3,753444E+22	3,753554E+22	9,808791E+21	9,808907E+21	7,506998E+22	1,961770E+22	9,468768E+22
1506	3,753513E+22	3,753385E+22	9,808811E+21	9,809118E+21	7,506899E+22	1,961793E+22	9,468691E+22
1507	3,753258E+22	3,753372E+22	9,810053E+21	9,809213E+21	7,506629E+22	1,961927E+22	9,468556E+22
1508	3,753291E+22	3,753359E+22	9,809682E+21	9,810473E+21	7,506650E+22	1,962015E+22	9,468666E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1509	3,753268E+22	3,753145E+22	9,810273E+21	9,810294E+21	7,506413E+22	1,962057E+22	9,468470E+22
1510	3,753101E+22	3,753190E+22	9,811033E+21	9,810584E+21	7,506291E+22	1,962162E+22	9,468452E+22
1511	3,753252E+22	3,753121E+22	9,810431E+21	9,811331E+21	7,506373E+22	1,962176E+22	9,468549E+22
1512	3,753118E+22	3,753052E+22	9,811357E+21	9,810746E+21	7,506170E+22	1,962210E+22	9,468380E+22
1513	3,753025E+22	3,753216E+22	9,811294E+21	9,811240E+21	7,506241E+22	1,962253E+22	9,468494E+22
1514	3,753174E+22	3,753094E+22	9,810696E+21	9,811242E+21	7,506268E+22	1,962194E+22	9,468462E+22
1515	3,753027E+22	3,753090E+22	9,811388E+21	9,810416E+21	7,506117E+22	1,962180E+22	9,468297E+22
1516	3,753134E+22	3,753213E+22	9,810510E+21	9,810835E+21	7,506347E+22	1,962135E+22	9,468481E+22
1517	3,753253E+22	3,753114E+22	9,810136E+21	9,810130E+21	7,506367E+22	1,962027E+22	9,468394E+22
1518	3,753143E+22	3,753251E+22	9,810360E+21	9,809655E+21	7,506394E+22	1,962002E+22	9,468395E+22
1519	3,753332E+22	3,753319E+22	9,809202E+21	9,810125E+21	7,506651E+22	1,961933E+22	9,468584E+22
1520	3,753315E+22	3,753246E+22	9,809559E+21	9,809256E+21	7,506561E+22	1,961882E+22	9,468442E+22
1521	3,753245E+22	3,753412E+22	9,809679E+21	9,809322E+21	7,506657E+22	1,961900E+22	9,468557E+22
1522	3,753437E+22	3,753331E+22	9,809024E+21	9,809642E+21	7,506767E+22	1,961867E+22	9,468634E+22
1523	3,753294E+22	3,753250E+22	9,810046E+21	9,809195E+21	7,506544E+22	1,961924E+22	9,468468E+22
1524	3,753242E+22	3,753371E+22	9,809973E+21	9,810141E+21	7,506614E+22	1,962011E+22	9,468625E+22
1525	3,753284E+22	3,753194E+22	9,809980E+21	9,810474E+21	7,506477E+22	1,962045E+22	9,468523E+22
1526	3,753069E+22	3,753147E+22	9,811103E+21	9,810474E+21	7,506215E+22	1,962158E+22	9,468373E+22
1527	3,753136E+22	3,753144E+22	9,810703E+21	9,811544E+21	7,506280E+22	1,962225E+22	9,468505E+22
1528	3,753111E+22	3,752942E+22	9,811421E+21	9,811366E+21	7,506053E+22	1,962279E+22	9,468332E+22
1529	3,752927E+22	3,753046E+22	9,812186E+21	9,811575E+21	7,505973E+22	1,962376E+22	9,468349E+22
1530	3,753049E+22	3,753002E+22	9,811597E+21	9,812405E+21	7,506051E+22	1,962400E+22	9,468451E+22
1531	3,752913E+22	3,752869E+22	9,812455E+21	9,811884E+21	7,505782E+22	1,962434E+22	9,468216E+22
1532	3,752836E+22	3,753025E+22	9,812355E+21	9,812222E+21	7,505861E+22	1,962458E+22	9,468319E+22
1533	3,752999E+22	3,752909E+22	9,811671E+21	9,812181E+21	7,505908E+22	1,962385E+22	9,468293E+22
1534	3,752897E+22	3,752898E+22	9,812185E+21	9,811299E+21	7,505795E+22	1,962348E+22	9,468144E+22
1535	3,753011E+22	3,753059E+22	9,811256E+21	9,811670E+21	7,506070E+22	1,962293E+22	9,468363E+22
1536	3,753098E+22	3,752976E+22	9,810984E+21	9,811102E+21	7,506075E+22	1,962209E+22	9,468283E+22
1537	3,752978E+22	3,753139E+22	9,811243E+21	9,810543E+21	7,506117E+22	1,962179E+22	9,468296E+22
1538	3,753176E+22	3,753189E+22	9,810195E+21	9,811001E+21	7,506365E+22	1,962120E+22	9,468485E+22
1539	3,753172E+22	3,753051E+22	9,810590E+21	9,810192E+21	7,506223E+22	1,962078E+22	9,468301E+22
1540	3,753097E+22	3,753233E+22	9,810781E+21	9,810247E+21	7,506331E+22	1,962103E+22	9,468434E+22
1541	3,753243E+22	3,753169E+22	9,810147E+21	9,810752E+21	7,506411E+22	1,962090E+22	9,468501E+22
1542	3,753093E+22	3,753072E+22	9,811065E+21	9,810437E+21	7,506165E+22	1,962150E+22	9,468315E+22
1543	3,753043E+22	3,753185E+22	9,810991E+21	9,811323E+21	7,506228E+22	1,962231E+22	9,468460E+22
1544	3,753085E+22	3,752980E+22	9,811144E+21	9,811686E+21	7,506065E+22	1,962283E+22	9,468348E+22
1545	3,752896E+22	3,752964E+22	9,812257E+21	9,811516E+21	7,505860E+22	1,962377E+22	9,468237E+22
1546	3,752977E+22	3,752970E+22	9,811912E+21	9,812606E+21	7,505948E+22	1,962452E+22	9,468399E+22
1547	3,752933E+22	3,752744E+22	9,812612E+21	9,812557E+21	7,505678E+22	1,962517E+22	9,468195E+22
1548	3,752733E+22	3,752882E+22	9,813332E+21	9,812735E+21	7,505614E+22	1,962607E+22	9,468221E+22
1549	3,752830E+22	3,752831E+22	9,812714E+21	9,813564E+21	7,505661E+22	1,962628E+22	9,468289E+22
1550	3,752738E+22	3,752667E+22	9,813406E+21	9,812925E+21	7,505405E+22	1,962633E+22	9,468038E+22
1551	3,752694E+22	3,752834E+22	9,813217E+21	9,813043E+21	7,505528E+22	1,962626E+22	9,468154E+22
1552	3,752849E+22	3,752733E+22	9,812605E+21	9,813054E+21	7,505581E+22	1,962566E+22	9,468147E+22
1553	3,752741E+22	3,752779E+22	9,813054E+21	9,812118E+21	7,505520E+22	1,962517E+22	9,468038E+22
1554	3,752845E+22	3,752951E+22	9,812168E+21	9,812585E+21	7,505796E+22	1,962475E+22	9,468271E+22
1555	3,752931E+22	3,752815E+22	9,811909E+21	9,812091E+21	7,505746E+22	1,962400E+22	9,468146E+22
1556	3,752830E+22	3,752978E+22	9,812205E+21	9,811420E+21	7,505808E+22	1,962362E+22	9,468171E+22
1557	3,753020E+22	3,753029E+22	9,811206E+21	9,811896E+21	7,506049E+22	1,962310E+22	9,468359E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1558	3,753036E+22	3,752873E+22	9,811514E+21	9,811179E+21	7,505909E+22	1,962269E+22	9,468179E+22
1559	3,752938E+22	3,753073E+22	9,811722E+21	9,811262E+21	7,506011E+22	1,962298E+22	9,468309E+22
1560	3,753038E+22	3,753005E+22	9,811220E+21	9,811977E+21	7,506044E+22	1,962320E+22	9,468363E+22
1561	3,752889E+22	3,752905E+22	9,812153E+21	9,811582E+21	7,505794E+22	1,962373E+22	9,468168E+22
1562	3,752864E+22	3,752993E+22	9,812177E+21	9,812446E+21	7,505857E+22	1,962462E+22	9,468319E+22
1563	3,752922E+22	3,752746E+22	9,812322E+21	9,812825E+21	7,505668E+22	1,962515E+22	9,468182E+22
1564	3,752734E+22	3,752762E+22	9,813449E+21	9,812601E+21	7,505496E+22	1,962605E+22	9,468101E+22
1565	3,752773E+22	3,752806E+22	9,813125E+21	9,813772E+21	7,505579E+22	1,962690E+22	9,468269E+22
1566	3,752733E+22	3,752570E+22	9,813667E+21	9,813767E+21	7,505303E+22	1,962743E+22	9,468046E+22
1567	3,752536E+22	3,752707E+22	9,814350E+21	9,813770E+21	7,505243E+22	1,962812E+22	9,468055E+22
1568	3,752633E+22	3,752645E+22	9,813800E+21	9,814580E+21	7,505278E+22	1,962838E+22	9,468116E+22
1569	3,752566E+22	3,752505E+22	9,814408E+21	9,813781E+21	7,505070E+22	1,962819E+22	9,467889E+22
1570	3,752544E+22	3,752678E+22	9,814231E+21	9,813946E+21	7,505222E+22	1,962818E+22	9,468040E+22
1571	3,752685E+22	3,752560E+22	9,813559E+21	9,814099E+21	7,505245E+22	1,962766E+22	9,468011E+22
1572	3,752581E+22	3,752635E+22	9,813951E+21	9,813143E+21	7,505216E+22	1,962709E+22	9,467925E+22
1573	3,752676E+22	3,752802E+22	9,813099E+21	9,813578E+21	7,505477E+22	1,962668E+22	9,468145E+22
1574	3,752803E+22	3,752639E+22	9,812720E+21	9,813002E+21	7,505441E+22	1,962572E+22	9,468013E+22
1575	3,752718E+22	3,752814E+22	9,813027E+21	9,812173E+21	7,505532E+22	1,962520E+22	9,468052E+22
1576	3,752865E+22	3,752874E+22	9,812200E+21	9,812793E+21	7,505739E+22	1,962499E+22	9,468238E+22
1577	3,752851E+22	3,752754E+22	9,812519E+21	9,812142E+21	7,505605E+22	1,962466E+22	9,468071E+22
1578	3,752742E+22	3,752928E+22	9,812814E+21	9,812372E+21	7,505670E+22	1,962519E+22	9,468189E+22
1579	3,752829E+22	3,752794E+22	9,812368E+21	9,813184E+21	7,505624E+22	1,962555E+22	9,468179E+22
1580	3,752716E+22	3,752696E+22	9,813288E+21	9,812687E+21	7,505412E+22	1,962597E+22	9,468010E+22
1581	3,752691E+22	3,752787E+22	9,813365E+21	9,813541E+21	7,505478E+22	1,962691E+22	9,468169E+22
1582	3,752768E+22	3,752544E+22	9,813402E+21	9,813988E+21	7,505312E+22	1,962739E+22	9,468051E+22
1583	3,752563E+22	3,752596E+22	9,814506E+21	9,813723E+21	7,505159E+22	1,962823E+22	9,467982E+22
1584	3,752551E+22	3,752645E+22	9,814302E+21	9,815007E+21	7,505197E+22	1,962931E+22	9,468128E+22
1585	3,752517E+22	3,752415E+22	9,814806E+21	9,814853E+21	7,504931E+22	1,962966E+22	9,467897E+22
1586	3,752354E+22	3,752521E+22	9,815499E+21	9,814786E+21	7,504875E+22	1,963029E+22	9,467903E+22
1587	3,752458E+22	3,752426E+22	9,814900E+21	9,815595E+21	7,504884E+22	1,963049E+22	9,467934E+22
1588	3,752410E+22	3,752323E+22	9,815413E+21	9,814753E+21	7,504733E+22	1,963017E+22	9,467749E+22
1589	3,752366E+22	3,752526E+22	9,815210E+21	9,814973E+21	7,504892E+22	1,963018E+22	9,467910E+22
1590	3,752530E+22	3,752403E+22	9,814353E+21	9,815144E+21	7,504933E+22	1,962950E+22	9,467883E+22
1591	3,752446E+22	3,752484E+22	9,814714E+21	9,813981E+21	7,504930E+22	1,962870E+22	9,467799E+22
1592	3,752535E+22	3,752653E+22	9,813995E+21	9,814392E+21	7,505188E+22	1,962839E+22	9,468027E+22
1593	3,752668E+22	3,752512E+22	9,813610E+21	9,813711E+21	7,505180E+22	1,962732E+22	9,467912E+22
1594	3,752576E+22	3,752678E+22	9,814036E+21	9,813035E+21	7,505254E+22	1,962707E+22	9,467961E+22
1595	3,752672E+22	3,752712E+22	9,813246E+21	9,813875E+21	7,505384E+22	1,962712E+22	9,468096E+22
1596	3,752653E+22	3,752584E+22	9,813579E+21	9,813307E+21	7,505237E+22	1,962689E+22	9,467925E+22
1597	3,752542E+22	3,752730E+22	9,813960E+21	9,813545E+21	7,505272E+22	1,962750E+22	9,468023E+22
1598	3,752678E+22	3,752566E+22	9,813380E+21	9,814327E+21	7,505244E+22	1,962771E+22	9,468015E+22
1599	3,752581E+22	3,752493E+22	9,814282E+21	9,813683E+21	7,505074E+22	1,962797E+22	9,467871E+22
1600	3,752515E+22	3,752615E+22	9,814511E+21	9,814660E+21	7,505129E+22	1,962917E+22	9,468046E+22
1601	3,752557E+22	3,752415E+22	9,814546E+21	9,815103E+21	7,504972E+22	1,962965E+22	9,467937E+22
1602	3,752347E+22	3,752445E+22	9,815741E+21	9,814922E+21	7,504792E+22	1,963066E+22	9,467858E+22
1603	3,752320E+22	3,752437E+22	9,815566E+21	9,816205E+21	7,504758E+22	1,963177E+22	9,467935E+22
1604	3,752326E+22	3,752206E+22	9,815997E+21	9,815947E+21	7,504532E+22	1,963194E+22	9,467726E+22
1605	3,752178E+22	3,752310E+22	9,816644E+21	9,815838E+21	7,504488E+22	1,963248E+22	9,467736E+22
1606	3,752311E+22	3,752223E+22	9,815820E+21	9,816686E+21	7,504533E+22	1,963251E+22	9,467784E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1607	3,752269E+22	3,752168E+22	9,816197E+21	9,815745E+21	7,504437E+22	1,963194E+22	9,467631E+22
1608	3,752201E+22	3,752382E+22	9,816086E+21	9,815993E+21	7,504583E+22	1,963208E+22	9,467791E+22
1609	3,752377E+22	3,752282E+22	9,815217E+21	9,815944E+21	7,504659E+22	1,963116E+22	9,467775E+22
1610	3,752327E+22	3,752344E+22	9,815632E+21	9,814722E+21	7,504670E+22	1,963035E+22	9,467706E+22
1611	3,752380E+22	3,752483E+22	9,814995E+21	9,815178E+21	7,504863E+22	1,963017E+22	9,467880E+22
1612	3,752504E+22	3,752369E+22	9,814611E+21	9,814596E+21	7,504873E+22	1,962921E+22	9,467794E+22
1613	3,752376E+22	3,752526E+22	9,815086E+21	9,814089E+21	7,504902E+22	1,962918E+22	9,467819E+22
1614	3,752484E+22	3,752526E+22	9,814179E+21	9,815042E+21	7,505009E+22	1,962922E+22	9,467932E+22
1615	3,752494E+22	3,752393E+22	9,814478E+21	9,814347E+21	7,504887E+22	1,962883E+22	9,467770E+22
1616	3,752382E+22	3,752535E+22	9,814991E+21	9,814608E+21	7,504918E+22	1,962960E+22	9,467878E+22
1617	3,752526E+22	3,752405E+22	9,814434E+21	9,815297E+21	7,504931E+22	1,962973E+22	9,467904E+22
1618	3,752426E+22	3,752336E+22	9,815436E+21	9,814786E+21	7,504762E+22	1,963022E+22	9,467785E+22
1619	3,752296E+22	3,752442E+22	9,815757E+21	9,815909E+21	7,504738E+22	1,963167E+22	9,467904E+22
1620	3,752337E+22	3,752239E+22	9,815806E+21	9,816370E+21	7,504576E+22	1,963218E+22	9,467794E+22
1621	3,752131E+22	3,752232E+22	9,817040E+21	9,816137E+21	7,504363E+22	1,963318E+22	9,467681E+22
1622	3,752149E+22	3,752197E+22	9,816655E+21	9,817349E+21	7,504346E+22	1,963400E+22	9,467746E+22
1623	3,752180E+22	3,751993E+22	9,816964E+21	9,816935E+21	7,504173E+22	1,963390E+22	9,467563E+22
1624	3,752009E+22	3,752137E+22	9,817636E+21	9,816901E+21	7,504145E+22	1,963454E+22	9,467599E+22
1625	3,752134E+22	3,752099E+22	9,816724E+21	9,817638E+21	7,504234E+22	1,963436E+22	9,467670E+22
1626	3,752109E+22	3,752038E+22	9,817132E+21	9,816681E+21	7,504148E+22	1,963381E+22	9,467529E+22
1627	3,752027E+22	3,752224E+22	9,817073E+21	9,816855E+21	7,504251E+22	1,963393E+22	9,467644E+22
1628	3,752229E+22	3,752131E+22	9,816196E+21	9,816720E+21	7,504360E+22	1,963292E+22	9,467652E+22
1629	3,752171E+22	3,752184E+22	9,816670E+21	9,815565E+21	7,504355E+22	1,963223E+22	9,467579E+22
1630	3,752224E+22	3,752312E+22	9,815877E+21	9,816171E+21	7,504536E+22	1,963205E+22	9,467741E+22
1631	3,752338E+22	3,752214E+22	9,815426E+21	9,815639E+21	7,504553E+22	1,963106E+22	9,467659E+22
1632	3,752193E+22	3,752355E+22	9,816006E+21	9,815242E+21	7,504548E+22	1,963125E+22	9,467672E+22
1633	3,752323E+22	3,752357E+22	9,815111E+21	9,816019E+21	7,504680E+22	1,963113E+22	9,467793E+22
1634	3,752372E+22	3,752215E+22	9,815477E+21	9,815302E+21	7,504587E+22	1,963078E+22	9,467665E+22
1635	3,752221E+22	3,752347E+22	9,816115E+21	9,815616E+21	7,504568E+22	1,963173E+22	9,467741E+22
1636	3,752344E+22	3,752252E+22	9,815630E+21	9,816392E+21	7,504596E+22	1,963202E+22	9,467798E+22
1637	3,752206E+22	3,752173E+22	9,816729E+21	9,816021E+21	7,504379E+22	1,963275E+22	9,467654E+22
1638	3,752079E+22	3,752236E+22	9,816938E+21	9,817185E+21	7,504315E+22	1,963412E+22	9,467727E+22
1639	3,752150E+22	3,752029E+22	9,816914E+21	9,817507E+21	7,504179E+22	1,963442E+22	9,467622E+22
1640	3,751949E+22	3,752012E+22	9,818169E+21	9,817272E+21	7,503961E+22	1,963544E+22	9,467505E+22
1641	3,751978E+22	3,752016E+22	9,817711E+21	9,818339E+21	7,503993E+22	1,963605E+22	9,467598E+22
1642	3,752026E+22	3,751836E+22	9,817970E+21	9,817990E+21	7,503862E+22	1,963596E+22	9,467458E+22
1643	3,751809E+22	3,751974E+22	9,818664E+21	9,818007E+21	7,503783E+22	1,963667E+22	9,467450E+22
1644	3,751954E+22	3,751953E+22	9,817769E+21	9,818652E+21	7,503906E+22	1,963642E+22	9,467548E+22
1645	3,751946E+22	3,751871E+22	9,818194E+21	9,817589E+21	7,503817E+22	1,963578E+22	9,467395E+22
1646	3,751893E+22	3,752035E+22	9,817962E+21	9,817697E+21	7,503927E+22	1,963566E+22	9,467493E+22
1647	3,752099E+22	3,751972E+22	9,817004E+21	9,817502E+21	7,504071E+22	1,963451E+22	9,467522E+22
1648	3,752001E+22	3,752037E+22	9,817533E+21	9,816543E+21	7,504037E+22	1,963408E+22	9,467445E+22
1649	3,752039E+22	3,752187E+22	9,816718E+21	9,817116E+21	7,504225E+22	1,963383E+22	9,467609E+22
1650	3,752181E+22	3,752065E+22	9,816321E+21	9,816636E+21	7,504246E+22	1,963296E+22	9,467542E+22
1651	3,752027E+22	3,752169E+22	9,817000E+21	9,816220E+21	7,504196E+22	1,963322E+22	9,467518E+22
1652	3,752186E+22	3,752183E+22	9,816179E+21	9,816943E+21	7,504369E+22	1,963312E+22	9,467681E+22
1653	3,752219E+22	3,752043E+22	9,816649E+21	9,816316E+21	7,504262E+22	1,963296E+22	9,467559E+22
1654	3,752052E+22	3,752168E+22	9,817190E+21	9,816780E+21	7,504220E+22	1,963397E+22	9,467617E+22
1655	3,752150E+22	3,752085E+22	9,816712E+21	9,817598E+21	7,504235E+22	1,963431E+22	9,467666E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1656	3,751988E+22	3,751981E+22	9,817929E+21	9,817330E+21	7,503969E+22	1,963526E+22	9,467495E+22
1657	3,751881E+22	3,752038E+22	9,818089E+21	9,818277E+21	7,503919E+22	1,963637E+22	9,467556E+22
1658	3,751986E+22	3,751822E+22	9,818054E+21	9,818575E+21	7,503808E+22	1,963663E+22	9,467470E+22
1659	3,751756E+22	3,751806E+22	9,819316E+21	9,818366E+21	7,503562E+22	1,963768E+22	9,467330E+22
1660	3,751786E+22	3,751848E+22	9,818846E+21	9,819440E+21	7,503634E+22	1,963829E+22	9,467463E+22
1661	3,751821E+22	3,751680E+22	9,819114E+21	9,819123E+21	7,503501E+22	1,963824E+22	9,467324E+22
1662	3,751633E+22	3,751791E+22	9,819631E+21	9,819079E+21	7,503424E+22	1,963871E+22	9,467295E+22
1663	3,751809E+22	3,751781E+22	9,818668E+21	9,819526E+21	7,503590E+22	1,963819E+22	9,467409E+22
1664	3,751800E+22	3,751704E+22	9,819105E+21	9,818479E+21	7,503503E+22	1,963758E+22	9,467262E+22
1665	3,751746E+22	3,751893E+22	9,818810E+21	9,818468E+21	7,503639E+22	1,963728E+22	9,467367E+22
1666	3,751953E+22	3,751844E+22	9,817842E+21	9,818412E+21	7,503797E+22	1,963625E+22	9,467423E+22
1667	3,751811E+22	3,751885E+22	9,818434E+21	9,817573E+21	7,503696E+22	1,963601E+22	9,467297E+22
1668	3,751874E+22	3,752027E+22	9,817707E+21	9,818095E+21	7,503901E+22	1,963580E+22	9,467482E+22
1669	3,752037E+22	3,751888E+22	9,817376E+21	9,817580E+21	7,503924E+22	1,963496E+22	9,467420E+22
1670	3,751903E+22	3,751971E+22	9,817938E+21	9,817167E+21	7,503874E+22	1,963511E+22	9,467385E+22
1671	3,752052E+22	3,752021E+22	9,817148E+21	9,817887E+21	7,504073E+22	1,963504E+22	9,467577E+22
1672	3,752030E+22	3,751892E+22	9,817713E+21	9,817478E+21	7,503922E+22	1,963519E+22	9,467441E+22
1673	3,751834E+22	3,752021E+22	9,818292E+21	9,817891E+21	7,503855E+22	1,963618E+22	9,467473E+22
1674	3,751951E+22	3,751913E+22	9,817862E+21	9,818746E+21	7,503864E+22	1,963661E+22	9,467524E+22
1675	3,751771E+22	3,751764E+22	9,819155E+21	9,818487E+21	7,503535E+22	1,963764E+22	9,467299E+22
1676	3,751696E+22	3,751828E+22	9,819344E+21	9,819370E+21	7,503523E+22	1,963871E+22	9,467395E+22
1677	3,751801E+22	3,751621E+22	9,819305E+21	9,819738E+21	7,503423E+22	1,963904E+22	9,467327E+22
1678	3,751574E+22	3,751607E+22	9,820341E+21	9,819612E+21	7,503181E+22	1,963995E+22	9,467177E+22
1679	3,751611E+22	3,751676E+22	9,819826E+21	9,820603E+21	7,503287E+22	1,964043E+22	9,467330E+22
1680	3,751642E+22	3,751505E+22	9,820119E+21	9,820243E+21	7,503147E+22	1,964036E+22	9,467183E+22
1681	3,751484E+22	3,751628E+22	9,820562E+21	9,819898E+21	7,503112E+22	1,964046E+22	9,467158E+22
1682	3,751683E+22	3,751629E+22	9,819578E+21	9,820287E+21	7,503312E+22	1,963986E+22	9,467298E+22
1683	3,751624E+22	3,751552E+22	9,820059E+21	9,819337E+21	7,503177E+22	1,963940E+22	9,467116E+22
1684	3,751564E+22	3,751761E+22	9,819787E+21	9,819381E+21	7,503325E+22	1,963917E+22	9,467241E+22
1685	3,751760E+22	3,751701E+22	9,818864E+21	9,819419E+21	7,503461E+22	1,963828E+22	9,467289E+22
1686	3,751657E+22	3,751700E+22	9,819289E+21	9,818588E+21	7,503357E+22	1,963788E+22	9,467145E+22
1687	3,751753E+22	3,751846E+22	9,818577E+21	9,818985E+21	7,503599E+22	1,963756E+22	9,467355E+22
1688	3,751902E+22	3,751720E+22	9,818316E+21	9,818550E+21	7,503622E+22	1,963687E+22	9,467309E+22
1689	3,751759E+22	3,751828E+22	9,818868E+21	9,818074E+21	7,503587E+22	1,963694E+22	9,467281E+22
1690	3,751880E+22	3,751887E+22	9,818158E+21	9,818946E+21	7,503767E+22	1,963710E+22	9,467477E+22
1691	3,751800E+22	3,751727E+22	9,818871E+21	9,818698E+21	7,503528E+22	1,963757E+22	9,467285E+22
1692	3,751624E+22	3,751827E+22	9,819557E+21	9,819053E+21	7,503452E+22	1,963861E+22	9,467313E+22
1693	3,751755E+22	3,751697E+22	9,819177E+21	9,819894E+21	7,503451E+22	1,963907E+22	9,467359E+22
1694	3,751603E+22	3,751523E+22	9,820267E+21	9,819661E+21	7,503126E+22	1,963993E+22	9,467119E+22
1695	3,751529E+22	3,751620E+22	9,820423E+21	9,820519E+21	7,503150E+22	1,964094E+22	9,467244E+22
1696	3,751601E+22	3,751447E+22	9,820380E+21	9,821004E+21	7,503048E+22	1,964138E+22	9,467186E+22
1697	3,751383E+22	3,751449E+22	9,821344E+21	9,820698E+21	7,502832E+22	1,964204E+22	9,467036E+22
1698	3,751449E+22	3,751520E+22	9,820851E+21	9,821574E+21	7,502970E+22	1,964242E+22	9,467212E+22
1699	3,751463E+22	3,751336E+22	9,821189E+21	9,821155E+21	7,502799E+22	1,964234E+22	9,467033E+22
1700	3,751325E+22	3,751470E+22	9,821652E+21	9,820719E+21	7,502795E+22	1,964237E+22	9,467032E+22
1701	3,751509E+22	3,751481E+22	9,820662E+21	9,821204E+21	7,502990E+22	1,964187E+22	9,467177E+22
1702	3,751447E+22	3,751383E+22	9,820923E+21	9,820411E+21	7,502830E+22	1,964133E+22	9,466963E+22
1703	3,751403E+22	3,751594E+22	9,820641E+21	9,820425E+21	7,502998E+22	1,964107E+22	9,467104E+22
1704	3,751608E+22	3,751525E+22	9,819731E+21	9,820452E+21	7,503133E+22	1,964018E+22	9,467151E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1705	3,751539E+22	3,751532E+22	9,820082E+21	9,819389E+21	7,503071E+22	1,963947E+22	9,467018E+22
1706	3,751648E+22	3,751702E+22	9,819421E+21	9,819762E+21	7,503350E+22	1,963918E+22	9,467268E+22
1707	3,751726E+22	3,751581E+22	9,819302E+21	9,819482E+21	7,503307E+22	1,963878E+22	9,467186E+22
1708	3,751561E+22	3,751696E+22	9,820000E+21	9,819093E+21	7,503256E+22	1,963909E+22	9,467166E+22
1709	3,751659E+22	3,751730E+22	9,819413E+21	9,820074E+21	7,503388E+22	1,963949E+22	9,467337E+22
1710	3,751601E+22	3,751509E+22	9,820005E+21	9,819909E+21	7,503110E+22	1,963991E+22	9,467101E+22
1711	3,751460E+22	3,751599E+22	9,820692E+21	9,820190E+21	7,503058E+22	1,964088E+22	9,467146E+22
1712	3,751578E+22	3,751478E+22	9,820316E+21	9,821111E+21	7,503057E+22	1,964143E+22	9,467199E+22
1713	3,751435E+22	3,751336E+22	9,821289E+21	9,820797E+21	7,502771E+22	1,964209E+22	9,466980E+22
1714	3,751356E+22	3,751463E+22	9,821454E+21	9,821693E+21	7,502818E+22	1,964315E+22	9,467133E+22
1715	3,751384E+22	3,751283E+22	9,821534E+21	9,822200E+21	7,502667E+22	1,964373E+22	9,467040E+22
1716	3,751201E+22	3,751278E+22	9,822561E+21	9,821716E+21	7,502479E+22	1,964428E+22	9,466907E+22
1717	3,751274E+22	3,751344E+22	9,822094E+21	9,822504E+21	7,502618E+22	1,964460E+22	9,467078E+22
1718	3,751299E+22	3,751144E+22	9,822203E+21	9,822136E+21	7,502443E+22	1,964434E+22	9,466877E+22
1719	3,751160E+22	3,751294E+22	9,822597E+21	9,821711E+21	7,502454E+22	1,964431E+22	9,466884E+22
1720	3,751307E+22	3,751325E+22	9,821568E+21	9,822312E+21	7,502632E+22	1,964388E+22	9,467020E+22
1721	3,751281E+22	3,751227E+22	9,821684E+21	9,821362E+21	7,502508E+22	1,964305E+22	9,466813E+22
1722	3,751279E+22	3,751434E+22	9,821422E+21	9,821265E+21	7,502713E+22	1,964269E+22	9,466982E+22
1723	3,751467E+22	3,751368E+22	9,820627E+21	9,821272E+21	7,502835E+22	1,964190E+22	9,467025E+22
1724	3,751415E+22	3,751391E+22	9,821065E+21	9,820163E+21	7,502805E+22	1,964123E+22	9,466928E+22
1725	3,751485E+22	3,751574E+22	9,820517E+21	9,820672E+21	7,503059E+22	1,964119E+22	9,467178E+22
1726	3,751536E+22	3,751423E+22	9,820290E+21	9,820621E+21	7,502959E+22	1,964091E+22	9,467050E+22
1727	3,751374E+22	3,751507E+22	9,821083E+21	9,820270E+21	7,502881E+22	1,964135E+22	9,467017E+22
1728	3,751462E+22	3,751522E+22	9,820553E+21	9,821275E+21	7,502984E+22	1,964183E+22	9,467167E+22
1729	3,751443E+22	3,751295E+22	9,821033E+21	9,820968E+21	7,502739E+22	1,964200E+22	9,466939E+22
1730	3,751315E+22	3,751404E+22	9,821735E+21	9,821247E+21	7,502719E+22	1,964298E+22	9,467017E+22
1731	3,751373E+22	3,751304E+22	9,821463E+21	9,822296E+21	7,502678E+22	1,964376E+22	9,467053E+22
1732	3,751226E+22	3,751182E+22	9,822501E+21	9,821963E+21	7,502409E+22	1,964446E+22	9,466855E+22
1733	3,751145E+22	3,751302E+22	9,822755E+21	9,822845E+21	7,502446E+22	1,964560E+22	9,467006E+22
1734	3,751193E+22	3,751081E+22	9,822690E+21	9,823337E+21	7,502274E+22	1,964603E+22	9,466877E+22
1735	3,751042E+22	3,751076E+22	9,823691E+21	9,822750E+21	7,502118E+22	1,964644E+22	9,466762E+22
1736	3,751095E+22	3,751157E+22	9,823157E+21	9,823552E+21	7,502251E+22	1,964671E+22	9,466922E+22
1737	3,751127E+22	3,750975E+22	9,823062E+21	9,823137E+21	7,502102E+22	1,964620E+22	9,466722E+22
1738	3,750999E+22	3,751143E+22	9,823386E+21	9,822715E+21	7,502141E+22	1,964610E+22	9,466751E+22
1739	3,751124E+22	3,751162E+22	9,822453E+21	9,823305E+21	7,502287E+22	1,964576E+22	9,466863E+22
1740	3,751149E+22	3,751070E+22	9,822614E+21	9,822160E+21	7,502218E+22	1,964477E+22	9,466696E+22
1741	3,751161E+22	3,751286E+22	9,822415E+21	9,822006E+21	7,502447E+22	1,964442E+22	9,466889E+22
1742	3,751332E+22	3,751211E+22	9,821520E+21	9,822119E+21	7,502543E+22	1,964364E+22	9,466907E+22
1743	3,751262E+22	3,751246E+22	9,822021E+21	9,821125E+21	7,502507E+22	1,964315E+22	9,466822E+22
1744	3,751275E+22	3,751426E+22	9,821546E+21	9,821774E+21	7,502701E+22	1,964332E+22	9,467033E+22
1745	3,751348E+22	3,751251E+22	9,821256E+21	9,821692E+21	7,502600E+22	1,964295E+22	9,466894E+22
1746	3,751217E+22	3,751316E+22	9,822078E+21	9,821307E+21	7,502534E+22	1,964339E+22	9,466872E+22
1747	3,751278E+22	3,751324E+22	9,821682E+21	9,822365E+21	7,502602E+22	1,964405E+22	9,467006E+22
1748	3,751278E+22	3,751114E+22	9,822214E+21	9,822044E+21	7,502392E+22	1,964426E+22	9,466818E+22
1749	3,751124E+22	3,751238E+22	9,822977E+21	9,822444E+21	7,502363E+22	1,964542E+22	9,466905E+22
1750	3,751165E+22	3,751121E+22	9,822613E+21	9,823627E+21	7,502285E+22	1,964624E+22	9,466909E+22
1751	3,751043E+22	3,750977E+22	9,823702E+21	9,823227E+21	7,502020E+22	1,964693E+22	9,466713E+22
1752	3,750949E+22	3,751094E+22	9,823970E+21	9,823996E+21	7,502043E+22	1,964797E+22	9,466840E+22
1753	3,751035E+22	3,750883E+22	9,823707E+21	9,824316E+21	7,501918E+22	1,964802E+22	9,466720E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1754	3,750887E+22	3,750896E+22	9,824635E+21	9,823694E+21	7,501783E+22	1,964833E+22	9,466616E+22
1755	3,750881E+22	3,750999E+22	9,824157E+21	9,824579E+21	7,501879E+22	1,964874E+22	9,466753E+22
1756	3,750934E+22	3,750831E+22	9,824051E+21	9,824102E+21	7,501765E+22	1,964815E+22	9,466580E+22
1757	3,750829E+22	3,750991E+22	9,824401E+21	9,823638E+21	7,501820E+22	1,964804E+22	9,466623E+22
1758	3,750984E+22	3,750985E+22	9,823346E+21	9,824199E+21	7,501969E+22	1,964754E+22	9,466723E+22
1759	3,751041E+22	3,750900E+22	9,823515E+21	9,822993E+21	7,501941E+22	1,964651E+22	9,466592E+22
1760	3,751016E+22	3,751141E+22	9,823345E+21	9,822885E+21	7,502157E+22	1,964623E+22	9,466780E+22
1761	3,751177E+22	3,751080E+22	9,822330E+21	9,823050E+21	7,502257E+22	1,964538E+22	9,466795E+22
1762	3,751095E+22	3,751107E+22	9,822879E+21	9,822152E+21	7,502202E+22	1,964503E+22	9,466706E+22
1763	3,751070E+22	3,751257E+22	9,822594E+21	9,822852E+21	7,502326E+22	1,964545E+22	9,466871E+22
1764	3,751181E+22	3,751068E+22	9,822377E+21	9,822677E+21	7,502250E+22	1,964505E+22	9,466755E+22
1765	3,751066E+22	3,751130E+22	9,823246E+21	9,822325E+21	7,502195E+22	1,964557E+22	9,466753E+22
1766	3,751106E+22	3,751120E+22	9,822780E+21	9,823520E+21	7,502226E+22	1,964630E+22	9,466856E+22
1767	3,751097E+22	3,750929E+22	9,823351E+21	9,823287E+21	7,502026E+22	1,964664E+22	9,466690E+22
1768	3,750907E+22	3,751060E+22	9,824147E+21	9,823708E+21	7,501967E+22	1,964785E+22	9,466752E+22
1769	3,750974E+22	3,750927E+22	9,823703E+21	9,824776E+21	7,501900E+22	1,964848E+22	9,466748E+22
1770	3,750881E+22	3,750787E+22	9,824782E+21	9,824267E+21	7,501668E+22	1,964905E+22	9,466572E+22
1771	3,750755E+22	3,750904E+22	9,825138E+21	9,825010E+21	7,501658E+22	1,965015E+22	9,466673E+22
1772	3,750852E+22	3,750716E+22	9,824862E+21	9,825294E+21	7,501568E+22	1,965016E+22	9,466583E+22
1773	3,750692E+22	3,750743E+22	9,825736E+21	9,824774E+21	7,501435E+22	1,965051E+22	9,466486E+22
1774	3,750678E+22	3,750816E+22	9,825136E+21	9,825728E+21	7,501494E+22	1,965086E+22	9,466580E+22
1775	3,750781E+22	3,750641E+22	9,825025E+21	9,825150E+21	7,501423E+22	1,965018E+22	9,466440E+22
1776	3,750688E+22	3,750811E+22	9,825336E+21	9,824545E+21	7,501499E+22	1,964988E+22	9,466487E+22
1777	3,750874E+22	3,750826E+22	9,824139E+21	9,824982E+21	7,501700E+22	1,964912E+22	9,466612E+22
1778	3,750921E+22	3,750772E+22	9,824280E+21	9,823793E+21	7,501693E+22	1,964807E+22	9,466500E+22
1779	3,750819E+22	3,751021E+22	9,824262E+21	9,823808E+21	7,501841E+22	1,964807E+22	9,466648E+22
1780	3,750984E+22	3,750955E+22	9,823335E+21	9,823980E+21	7,501939E+22	1,964732E+22	9,466671E+22
1781	3,750916E+22	3,750947E+22	9,823973E+21	9,823153E+21	7,501863E+22	1,964713E+22	9,466576E+22
1782	3,750901E+22	3,751052E+22	9,823650E+21	9,823905E+21	7,501953E+22	1,964756E+22	9,466708E+22
1783	3,751046E+22	3,750859E+22	9,823459E+21	9,823760E+21	7,501905E+22	1,964722E+22	9,466627E+22
1784	3,750893E+22	3,750939E+22	9,824330E+21	9,823471E+21	7,501832E+22	1,964780E+22	9,466612E+22
1785	3,750933E+22	3,750948E+22	9,823750E+21	9,824706E+21	7,501881E+22	1,964846E+22	9,466727E+22
1786	3,750918E+22	3,750759E+22	9,824359E+21	9,824472E+21	7,501677E+22	1,964883E+22	9,466561E+22
1787	3,750696E+22	3,750874E+22	9,825357E+21	9,824846E+21	7,501570E+22	1,965020E+22	9,466590E+22
1788	3,750793E+22	3,750746E+22	9,824968E+21	9,825758E+21	7,501539E+22	1,965073E+22	9,466612E+22
1789	3,750701E+22	3,750608E+22	9,826048E+21	9,825298E+21	7,501309E+22	1,965135E+22	9,466444E+22
1790	3,750543E+22	3,750709E+22	9,826289E+21	9,826150E+21	7,501252E+22	1,965244E+22	9,466496E+22
1791	3,750648E+22	3,750529E+22	9,825966E+21	9,826495E+21	7,501177E+22	1,965246E+22	9,466423E+22
1792	3,750483E+22	3,750560E+22	9,826763E+21	9,825924E+21	7,501043E+22	1,965269E+22	9,466311E+22
1793	3,750530E+22	3,750628E+22	9,825997E+21	9,826717E+21	7,501157E+22	1,965271E+22	9,466429E+22
1794	3,750671E+22	3,750480E+22	9,825815E+21	9,825983E+21	7,501150E+22	1,965180E+22	9,466330E+22
1795	3,750550E+22	3,750667E+22	9,826227E+21	9,825341E+21	7,501217E+22	1,965157E+22	9,466373E+22
1796	3,750730E+22	3,750714E+22	9,825077E+21	9,825743E+21	7,501443E+22	1,965082E+22	9,466525E+22
1797	3,750752E+22	3,750666E+22	9,825238E+21	9,824735E+21	7,501418E+22	1,964997E+22	9,466416E+22
1798	3,750624E+22	3,750855E+22	9,825227E+21	9,824858E+21	7,501479E+22	1,965009E+22	9,466487E+22
1799	3,750823E+22	3,750760E+22	9,824380E+21	9,825021E+21	7,501583E+22	1,964940E+22	9,466523E+22
1800	3,750762E+22	3,750747E+22	9,824981E+21	9,824141E+21	7,501509E+22	1,964912E+22	9,466421E+22
1801	3,750771E+22	3,750851E+22	9,824555E+21	9,824882E+21	7,501622E+22	1,964944E+22	9,466566E+22
1802	3,750900E+22	3,750697E+22	9,824356E+21	9,824792E+21	7,501597E+22	1,964915E+22	9,466512E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1803	3,750684E+22	3,750788E+22	9,825385E+21	9,824606E+21	7,501472E+22	1,964999E+22	9,466471E+22
1804	3,750727E+22	3,750799E+22	9,824951E+21	9,825778E+21	7,501526E+22	1,965073E+22	9,466599E+22
1805	3,750724E+22	3,750594E+22	9,825638E+21	9,825596E+21	7,501318E+22	1,965123E+22	9,466442E+22
1806	3,750492E+22	3,750662E+22	9,826625E+21	9,825991E+21	7,501155E+22	1,965262E+22	9,466416E+22
1807	3,750611E+22	3,750532E+22	9,826252E+21	9,826935E+21	7,501144E+22	1,965319E+22	9,466463E+22
1808	3,750489E+22	3,750410E+22	9,827225E+21	9,826529E+21	7,500899E+22	1,965375E+22	9,466275E+22
1809	3,750350E+22	3,750512E+22	9,827257E+21	9,827394E+21	7,500862E+22	1,965465E+22	9,466327E+22
1810	3,750478E+22	3,750345E+22	9,826852E+21	9,827638E+21	7,500823E+22	1,965449E+22	9,466272E+22
1811	3,750317E+22	3,750377E+22	9,827716E+21	9,826921E+21	7,500694E+22	1,965464E+22	9,466158E+22
1812	3,750408E+22	3,750477E+22	9,826973E+21	9,827475E+21	7,500885E+22	1,965445E+22	9,466329E+22
1813	3,750545E+22	3,750355E+22	9,826782E+21	9,826763E+21	7,500900E+22	1,965355E+22	9,466255E+22
1814	3,750375E+22	3,750530E+22	9,827173E+21	9,826223E+21	7,500905E+22	1,965340E+22	9,466244E+22
1815	3,750550E+22	3,750572E+22	9,826059E+21	9,826700E+21	7,501122E+22	1,965276E+22	9,466397E+22
1816	3,750551E+22	3,750503E+22	9,826219E+21	9,825727E+21	7,501054E+22	1,965195E+22	9,466248E+22
1817	3,750473E+22	3,750663E+22	9,826087E+21	9,825814E+21	7,501136E+22	1,965190E+22	9,466326E+22
1818	3,750698E+22	3,750579E+22	9,825208E+21	9,825930E+21	7,501277E+22	1,965114E+22	9,466391E+22
1819	3,750611E+22	3,750576E+22	9,825923E+21	9,825108E+21	7,501187E+22	1,965103E+22	9,466290E+22
1820	3,750614E+22	3,750713E+22	9,825581E+21	9,825849E+21	7,501327E+22	1,965143E+22	9,466470E+22
1821	3,750713E+22	3,750570E+22	9,825446E+21	9,825940E+21	7,501283E+22	1,965139E+22	9,466422E+22
1822	3,750471E+22	3,750604E+22	9,826576E+21	9,825823E+21	7,501075E+22	1,965240E+22	9,466315E+22
1823	3,750543E+22	3,750589E+22	9,826260E+21	9,826949E+21	7,501132E+22	1,965321E+22	9,466453E+22
1824	3,750532E+22	3,750384E+22	9,826917E+21	9,826741E+21	7,500915E+22	1,965366E+22	9,466281E+22
1825	3,750319E+22	3,750443E+22	9,827730E+21	9,827160E+21	7,500762E+22	1,965489E+22	9,466251E+22
1826	3,750420E+22	3,750347E+22	9,827265E+21	9,828120E+21	7,500766E+22	1,965539E+22	9,466305E+22
1827	3,750268E+22	3,750230E+22	9,828266E+21	9,827739E+21	7,500498E+22	1,965600E+22	9,466098E+22
1828	3,750164E+22	3,750341E+22	9,828337E+21	9,828412E+21	7,500505E+22	1,965675E+22	9,466180E+22
1829	3,750328E+22	3,750192E+22	9,827909E+21	9,828599E+21	7,500520E+22	1,965651E+22	9,466171E+22
1830	3,750170E+22	3,750199E+22	9,828734E+21	9,827817E+21	7,500369E+22	1,965655E+22	9,466024E+22
1831	3,750270E+22	3,750315E+22	9,828041E+21	9,828348E+21	7,500585E+22	1,965639E+22	9,466224E+22
1832	3,750364E+22	3,750223E+22	9,827750E+21	9,827691E+21	7,500587E+22	1,965544E+22	9,466131E+22
1833	3,750200E+22	3,750370E+22	9,827986E+21	9,827234E+21	7,500570E+22	1,965522E+22	9,466092E+22
1834	3,750381E+22	3,750409E+22	9,826865E+21	9,827656E+21	7,500791E+22	1,965452E+22	9,466243E+22
1835	3,750389E+22	3,750323E+22	9,827106E+21	9,826656E+21	7,500712E+22	1,965376E+22	9,466089E+22
1836	3,750346E+22	3,750497E+22	9,827034E+21	9,826618E+21	7,500844E+22	1,965365E+22	9,466209E+22
1837	3,750563E+22	3,750442E+22	9,826177E+21	9,826864E+21	7,501005E+22	1,965304E+22	9,466309E+22
1838	3,750425E+22	3,750419E+22	9,826929E+21	9,826186E+21	7,500844E+22	1,965312E+22	9,466156E+22
1839	3,750425E+22	3,750550E+22	9,826732E+21	9,826992E+21	7,500975E+22	1,965372E+22	9,466347E+22
1840	3,750504E+22	3,750395E+22	9,826645E+21	9,827092E+21	7,500898E+22	1,965374E+22	9,466272E+22
1841	3,750301E+22	3,750390E+22	9,827696E+21	9,826976E+21	7,500691E+22	1,965467E+22	9,466158E+22
1842	3,750379E+22	3,750386E+22	9,827360E+21	9,828040E+21	7,500765E+22	1,965540E+22	9,466305E+22
1843	3,750337E+22	3,750185E+22	9,828077E+21	9,827920E+21	7,500523E+22	1,965600E+22	9,466122E+22
1844	3,750126E+22	3,750272E+22	9,828871E+21	9,828306E+21	7,500397E+22	1,965718E+22	9,466115E+22
1845	3,750218E+22	3,750185E+22	9,828380E+21	9,829353E+21	7,500403E+22	1,965773E+22	9,466176E+22
1846	3,750065E+22	3,750027E+22	9,829392E+21	9,828913E+21	7,500092E+22	1,965831E+22	9,465923E+22
1847	3,750017E+22	3,750139E+22	9,829500E+21	9,829419E+21	7,500156E+22	1,965892E+22	9,466048E+22
1848	3,750169E+22	3,750019E+22	9,829004E+21	9,829496E+21	7,500188E+22	1,965850E+22	9,466038E+22
1849	3,750025E+22	3,750033E+22	9,829640E+21	9,828741E+21	7,500058E+22	1,965838E+22	9,465896E+22
1850	3,750097E+22	3,750180E+22	9,828871E+21	9,829253E+21	7,500277E+22	1,965812E+22	9,466090E+22
1851	3,750158E+22	3,750081E+22	9,828631E+21	9,828669E+21	7,500239E+22	1,965730E+22	9,465969E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1852	3,750030E+22	3,750219E+22	9,828895E+21	9,828088E+21	7,500249E+22	1,965698E+22	9,465947E+22
1853	3,750237E+22	3,750260E+22	9,827771E+21	9,828536E+21	7,500498E+22	1,965631E+22	9,466128E+22
1854	3,750246E+22	3,750142E+22	9,828038E+21	9,827574E+21	7,500388E+22	1,965561E+22	9,465950E+22
1855	3,750220E+22	3,750326E+22	9,828058E+21	9,827580E+21	7,500546E+22	1,965564E+22	9,466110E+22
1856	3,750388E+22	3,750301E+22	9,827196E+21	9,827920E+21	7,500689E+22	1,965512E+22	9,466200E+22
1857	3,750259E+22	3,750246E+22	9,827865E+21	9,827356E+21	7,500505E+22	1,965522E+22	9,466027E+22
1858	3,750254E+22	3,750370E+22	9,827747E+21	9,828067E+21	7,500624E+22	1,965581E+22	9,466205E+22
1859	3,750326E+22	3,750201E+22	9,827778E+21	9,828175E+21	7,500527E+22	1,965595E+22	9,466122E+22
1860	3,750138E+22	3,750201E+22	9,828889E+21	9,827976E+21	7,500338E+22	1,965686E+22	9,466025E+22
1861	3,750189E+22	3,750225E+22	9,828550E+21	9,829176E+21	7,500415E+22	1,965773E+22	9,466188E+22
1862	3,750106E+22	3,749993E+22	9,829262E+21	9,829181E+21	7,500100E+22	1,965844E+22	9,465944E+22
1863	3,749913E+22	3,750066E+22	9,830122E+21	9,829553E+21	7,499979E+22	1,965968E+22	9,465947E+22
1864	3,750010E+22	3,749992E+22	9,829587E+21	9,830497E+21	7,500003E+22	1,966008E+22	9,466011E+22
1865	3,749915E+22	3,749815E+22	9,830405E+21	9,829997E+21	7,499731E+22	1,966040E+22	9,465771E+22
1866	3,749877E+22	3,749962E+22	9,830466E+21	9,830348E+21	7,499839E+22	1,966081E+22	9,465921E+22
1867	3,749999E+22	3,749869E+22	9,829977E+21	9,830466E+21	7,499867E+22	1,966044E+22	9,465911E+22
1868	3,749848E+22	3,749905E+22	9,830567E+21	9,829671E+21	7,499753E+22	1,966024E+22	9,465777E+22
1869	3,749909E+22	3,750054E+22	9,829779E+21	9,830241E+21	7,499964E+22	1,966002E+22	9,465966E+22
1870	3,749973E+22	3,749896E+22	9,829577E+21	9,829645E+21	7,499870E+22	1,965922E+22	9,465792E+22
1871	3,749906E+22	3,750023E+22	9,829890E+21	9,828972E+21	7,499929E+22	1,965886E+22	9,465815E+22
1872	3,750103E+22	3,750094E+22	9,828739E+21	9,829388E+21	7,500197E+22	1,965813E+22	9,466010E+22
1873	3,750122E+22	3,749977E+22	9,828849E+21	9,828547E+21	7,500099E+22	1,965740E+22	9,465838E+22
1874	3,750067E+22	3,750189E+22	9,828883E+21	9,828547E+21	7,500255E+22	1,965743E+22	9,465998E+22
1875	3,750196E+22	3,750155E+22	9,828175E+21	9,828962E+21	7,500351E+22	1,965714E+22	9,466065E+22
1876	3,750091E+22	3,750091E+22	9,828946E+21	9,828320E+21	7,500181E+22	1,965727E+22	9,465908E+22
1877	3,750086E+22	3,750209E+22	9,828888E+21	9,829069E+21	7,500295E+22	1,965796E+22	9,466091E+22
1878	3,750130E+22	3,749999E+22	9,829012E+21	9,829297E+21	7,500130E+22	1,965831E+22	9,465960E+22
1879	3,749953E+22	3,749998E+22	9,830160E+21	9,829178E+21	7,499951E+22	1,965934E+22	9,465885E+22
1880	3,749958E+22	3,750039E+22	9,829773E+21	9,830456E+21	7,499998E+22	1,966023E+22	9,466021E+22
1881	3,749907E+22	3,749775E+22	9,830325E+21	9,830526E+21	7,499682E+22	1,966085E+22	9,465767E+22
1882	3,749745E+22	3,749854E+22	9,831154E+21	9,830698E+21	7,499598E+22	1,966185E+22	9,465784E+22
1883	3,749848E+22	3,749795E+22	9,830672E+21	9,831547E+21	7,499643E+22	1,966222E+22	9,465865E+22
1884	3,749773E+22	3,749656E+22	9,831450E+21	9,830897E+21	7,499429E+22	1,966235E+22	9,465664E+22
1885	3,749704E+22	3,749839E+22	9,831469E+21	9,831285E+21	7,499543E+22	1,966275E+22	9,465818E+22
1886	3,749781E+22	3,749718E+22	9,830999E+21	9,831487E+21	7,499499E+22	1,966249E+22	9,465748E+22
1887	3,749660E+22	3,749731E+22	9,831621E+21	9,830664E+21	7,499391E+22	1,966228E+22	9,465620E+22
1888	3,749726E+22	3,749883E+22	9,830794E+21	9,831146E+21	7,499609E+22	1,966194E+22	9,465803E+22
1889	3,749851E+22	3,749700E+22	9,830396E+21	9,830579E+21	7,499551E+22	1,966098E+22	9,465649E+22
1890	3,749799E+22	3,749853E+22	9,830670E+21	9,829818E+21	7,499653E+22	1,966049E+22	9,465702E+22
1891	3,749964E+22	3,749956E+22	9,829589E+21	9,830327E+21	7,499920E+22	1,965992E+22	9,465912E+22
1892	3,749970E+22	3,749860E+22	9,829713E+21	9,829487E+21	7,499830E+22	1,965920E+22	9,465750E+22
1893	3,749893E+22	3,750069E+22	9,829848E+21	9,829533E+21	7,499962E+22	1,965938E+22	9,465900E+22
1894	3,750007E+22	3,749975E+22	9,829294E+21	9,829978E+21	7,499981E+22	1,965927E+22	9,465909E+22
1895	3,749929E+22	3,749886E+22	9,830188E+21	9,829347E+21	7,499815E+22	1,965953E+22	9,465768E+22
1896	3,749889E+22	3,750024E+22	9,830138E+21	9,830142E+21	7,499913E+22	1,966028E+22	9,465941E+22
1897	3,749938E+22	3,749791E+22	9,830089E+21	9,830580E+21	7,499728E+22	1,966067E+22	9,465795E+22
1898	3,749750E+22	3,749800E+22	9,831193E+21	9,830442E+21	7,499550E+22	1,966164E+22	9,465713E+22
1899	3,749749E+22	3,749837E+22	9,830884E+21	9,831712E+21	7,499586E+22	1,966260E+22	9,465846E+22
1900	3,749739E+22	3,749587E+22	9,831414E+21	9,831602E+21	7,499326E+22	1,966302E+22	9,465628E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1901	3,749594E+22	3,749691E+22	9,832240E+21	9,831691E+21	7,499285E+22	1,966393E+22	9,465678E+22
1902	3,749670E+22	3,749617E+22	9,831848E+21	9,832559E+21	7,499288E+22	1,966441E+22	9,465728E+22
1903	3,749598E+22	3,749495E+22	9,832628E+21	9,831943E+21	7,499093E+22	1,966457E+22	9,465550E+22
1904	3,749483E+22	3,749694E+22	9,832577E+21	9,832339E+21	7,499177E+22	1,966492E+22	9,465669E+22
1905	3,749594E+22	3,749524E+22	9,831923E+21	9,832605E+21	7,499119E+22	1,966453E+22	9,465572E+22
1906	3,749518E+22	3,749533E+22	9,832462E+21	9,831594E+21	7,499051E+22	1,966406E+22	9,465457E+22
1907	3,749596E+22	3,749699E+22	9,831665E+21	9,832016E+21	7,499295E+22	1,966368E+22	9,465663E+22
1908	3,749740E+22	3,749565E+22	9,831207E+21	9,831368E+21	7,499304E+22	1,966257E+22	9,465562E+22
1909	3,749663E+22	3,749753E+22	9,831463E+21	9,830667E+21	7,499415E+22	1,966213E+22	9,465628E+22
1910	3,749770E+22	3,749825E+22	9,830553E+21	9,831276E+21	7,499595E+22	1,966183E+22	9,465778E+22
1911	3,749796E+22	3,749709E+22	9,830790E+21	9,830449E+21	7,499505E+22	1,966124E+22	9,465629E+22
1912	3,749701E+22	3,749903E+22	9,830993E+21	9,830467E+21	7,499604E+22	1,966146E+22	9,465750E+22
1913	3,749846E+22	3,749767E+22	9,830342E+21	9,831061E+21	7,499613E+22	1,966140E+22	9,465753E+22
1914	3,749773E+22	3,749683E+22	9,831216E+21	9,830446E+21	7,499456E+22	1,966166E+22	9,465623E+22
1915	3,749696E+22	3,749834E+22	9,831214E+21	9,831377E+21	7,499530E+22	1,966259E+22	9,465789E+22
1916	3,749746E+22	3,749619E+22	9,831118E+21	9,831811E+21	7,499365E+22	1,966293E+22	9,465658E+22
1917	3,749567E+22	3,749625E+22	9,832241E+21	9,831624E+21	7,499192E+22	1,966386E+22	9,465578E+22
1918	3,749564E+22	3,749629E+22	9,832104E+21	9,832824E+21	7,499193E+22	1,966493E+22	9,465685E+22
1919	3,749587E+22	3,749394E+22	9,832688E+21	9,832629E+21	7,498980E+22	1,966532E+22	9,465512E+22
1920	3,749401E+22	3,749532E+22	9,833503E+21	9,832695E+21	7,498933E+22	1,966620E+22	9,465553E+22
1921	3,749471E+22	3,749440E+22	9,832926E+21	9,833722E+21	7,498912E+22	1,966665E+22	9,465577E+22
1922	3,749392E+22	3,749319E+22	9,833622E+21	9,833056E+21	7,498711E+22	1,966668E+22	9,465378E+22
1923	3,749282E+22	3,749508E+22	9,833569E+21	9,833409E+21	7,498790E+22	1,966698E+22	9,465487E+22
1924	3,749444E+22	3,749349E+22	9,832803E+21	9,833514E+21	7,498793E+22	1,966632E+22	9,465425E+22
1925	3,749397E+22	3,749383E+22	9,833274E+21	9,832427E+21	7,498780E+22	1,966570E+22	9,465350E+22
1926	3,749457E+22	3,749543E+22	9,832588E+21	9,832878E+21	7,499000E+22	1,966547E+22	9,465547E+22
1927	3,749595E+22	3,749435E+22	9,832154E+21	9,832274E+21	7,499030E+22	1,966443E+22	9,465473E+22
1928	3,749474E+22	3,749635E+22	9,832448E+21	9,831600E+21	7,499110E+22	1,966405E+22	9,465515E+22
1929	3,749603E+22	3,749646E+22	9,831483E+21	9,832302E+21	7,499249E+22	1,966379E+22	9,465628E+22
1930	3,749651E+22	3,749515E+22	9,831744E+21	9,831402E+21	7,499167E+22	1,966315E+22	9,465481E+22
1931	3,749545E+22	3,749710E+22	9,832027E+21	9,831464E+21	7,499255E+22	1,966349E+22	9,465604E+22
1932	3,749684E+22	3,749600E+22	9,831334E+21	9,832088E+21	7,499284E+22	1,966342E+22	9,465626E+22
1933	3,749590E+22	3,749535E+22	9,832186E+21	9,831568E+21	7,499126E+22	1,966375E+22	9,465501E+22
1934	3,749478E+22	3,749646E+22	9,832373E+21	9,832574E+21	7,499124E+22	1,966495E+22	9,465619E+22
1935	3,749557E+22	3,749430E+22	9,832364E+21	9,832963E+21	7,498987E+22	1,966533E+22	9,465520E+22
1936	3,749377E+22	3,749444E+22	9,833514E+21	9,832697E+21	7,498821E+22	1,966621E+22	9,465443E+22
1937	3,749398E+22	3,749419E+22	9,833296E+21	9,833982E+21	7,498817E+22	1,966728E+22	9,465545E+22
1938	3,749418E+22	3,749208E+22	9,833830E+21	9,833767E+21	7,498625E+22	1,966760E+22	9,465385E+22
1939	3,749190E+22	3,749358E+22	9,834623E+21	9,833902E+21	7,498548E+22	1,966853E+22	9,465401E+22
1940	3,749264E+22	3,749279E+22	9,833929E+21	9,834865E+21	7,498542E+22	1,966879E+22	9,465422E+22
1941	3,749215E+22	3,749146E+22	9,834531E+21	9,834085E+21	7,498361E+22	1,966862E+22	9,465222E+22
1942	3,749116E+22	3,749299E+22	9,834590E+21	9,834340E+21	7,498416E+22	1,966893E+22	9,465309E+22
1943	3,749319E+22	3,749181E+22	9,833796E+21	9,834347E+21	7,498500E+22	1,966814E+22	9,465314E+22
1944	3,749247E+22	3,749254E+22	9,834219E+21	9,833252E+21	7,498501E+22	1,966747E+22	9,465248E+22
1945	3,749300E+22	3,749396E+22	9,833441E+21	9,833852E+21	7,498695E+22	1,966729E+22	9,465425E+22
1946	3,749433E+22	3,749291E+22	9,833002E+21	9,833204E+21	7,498724E+22	1,966621E+22	9,465345E+22
1947	3,749302E+22	3,749473E+22	9,833386E+21	9,832530E+21	7,498775E+22	1,966592E+22	9,465366E+22
1948	3,749454E+22	3,749487E+22	9,832395E+21	9,833159E+21	7,498941E+22	1,966555E+22	9,465496E+22
1949	3,749511E+22	3,749359E+22	9,832660E+21	9,832316E+21	7,498870E+22	1,966498E+22	9,465368E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1950	3,749369E+22	3,749528E+22	9,833132E+21	9,832525E+21	7,498897E+22	1,966566E+22	9,465463E+22
1951	3,749498E+22	3,749440E+22	9,832472E+21	9,833255E+21	7,498938E+22	1,966573E+22	9,465511E+22
1952	3,749378E+22	3,749373E+22	9,833351E+21	9,832770E+21	7,498750E+22	1,966612E+22	9,465362E+22
1953	3,749298E+22	3,749424E+22	9,833513E+21	9,833829E+21	7,498722E+22	1,966734E+22	9,465456E+22
1954	3,749401E+22	3,749214E+22	9,833521E+21	9,834095E+21	7,498616E+22	1,966762E+22	9,465377E+22
1955	3,749206E+22	3,749249E+22	9,834720E+21	9,833837E+21	7,498455E+22	1,966856E+22	9,465311E+22
1956	3,749211E+22	3,749254E+22	9,834417E+21	9,835095E+21	7,498465E+22	1,966951E+22	9,465416E+22
1957	3,749207E+22	3,749057E+22	9,834878E+21	9,834917E+21	7,498264E+22	1,966979E+22	9,465244E+22
1958	3,748959E+22	3,749164E+22	9,835773E+21	9,835051E+21	7,498123E+22	1,967082E+22	9,465206E+22
1959	3,749070E+22	3,749085E+22	9,835056E+21	9,835887E+21	7,498155E+22	1,967094E+22	9,465250E+22
1960	3,749045E+22	3,748969E+22	9,835585E+21	9,834999E+21	7,498014E+22	1,967058E+22	9,465073E+22
1961	3,748989E+22	3,749100E+22	9,835522E+21	9,835301E+21	7,498089E+22	1,967082E+22	9,465171E+22
1962	3,749193E+22	3,749025E+22	9,834666E+21	9,835267E+21	7,498218E+22	1,966993E+22	9,465211E+22
1963	3,749087E+22	3,749124E+22	9,835071E+21	9,834232E+21	7,498210E+22	1,966930E+22	9,465140E+22
1964	3,749136E+22	3,749268E+22	9,834255E+21	9,834756E+21	7,498404E+22	1,966901E+22	9,465305E+22
1965	3,749285E+22	3,749152E+22	9,833825E+21	9,834041E+21	7,498437E+22	1,966787E+22	9,465223E+22
1966	3,749147E+22	3,749288E+22	9,834410E+21	9,833390E+21	7,498435E+22	1,966780E+22	9,465215E+22
1967	3,749300E+22	3,749329E+22	9,833476E+21	9,834046E+21	7,498629E+22	1,966752E+22	9,465381E+22
1968	3,749326E+22	3,749217E+22	9,833739E+21	9,833342E+21	7,498543E+22	1,966708E+22	9,465251E+22
1969	3,749178E+22	3,749338E+22	9,834169E+21	9,833760E+21	7,498515E+22	1,966793E+22	9,465308E+22
1970	3,749316E+22	3,749248E+22	9,833534E+21	9,834462E+21	7,498564E+22	1,966800E+22	9,465364E+22
1971	3,749198E+22	3,749170E+22	9,834465E+21	9,833948E+21	7,498368E+22	1,966841E+22	9,465209E+22
1972	3,749140E+22	3,749236E+22	9,834604E+21	9,834895E+21	7,498376E+22	1,966950E+22	9,465326E+22
1973	3,749246E+22	3,749047E+22	9,834600E+21	9,835146E+21	7,498293E+22	1,966975E+22	9,465268E+22
1974	3,749002E+22	3,749060E+22	9,835971E+21	9,835001E+21	7,498062E+22	1,967097E+22	9,465159E+22
1975	3,748987E+22	3,749094E+22	9,835656E+21	9,836268E+21	7,498081E+22	1,967192E+22	9,465273E+22
1976	3,748977E+22	3,748882E+22	9,836073E+21	9,836088E+21	7,497859E+22	1,967216E+22	9,465075E+22
1977	3,748777E+22	3,748924E+22	9,836864E+21	9,836212E+21	7,497700E+22	1,967308E+22	9,465008E+22
1978	3,748932E+22	3,748870E+22	9,836065E+21	9,836876E+21	7,497802E+22	1,967294E+22	9,465096E+22
1979	3,748905E+22	3,748792E+22	9,836528E+21	9,835956E+21	7,497697E+22	1,967248E+22	9,464945E+22
1980	3,748845E+22	3,748968E+22	9,836348E+21	9,836203E+21	7,497814E+22	1,967255E+22	9,465069E+22
1981	3,749031E+22	3,748918E+22	9,835447E+21	9,836140E+21	7,497950E+22	1,967159E+22	9,465108E+22
1982	3,748902E+22	3,748976E+22	9,836042E+21	9,835131E+21	7,497878E+22	1,967117E+22	9,464996E+22
1983	3,748967E+22	3,749125E+22	9,835276E+21	9,835559E+21	7,498092E+22	1,967083E+22	9,465175E+22
1984	3,749120E+22	3,749004E+22	9,834856E+21	9,834898E+21	7,498125E+22	1,966975E+22	9,465100E+22
1985	3,749003E+22	3,749086E+22	9,835397E+21	9,834433E+21	7,498089E+22	1,966983E+22	9,465072E+22
1986	3,749147E+22	3,749149E+22	9,834455E+21	9,835154E+21	7,498296E+22	1,966961E+22	9,465257E+22
1987	3,749144E+22	3,749050E+22	9,834707E+21	9,834562E+21	7,498194E+22	1,966927E+22	9,465121E+22
1988	3,749012E+22	3,749158E+22	9,835098E+21	9,834899E+21	7,498171E+22	1,967000E+22	9,465170E+22
1989	3,749166E+22	3,749067E+22	9,834514E+21	9,835480E+21	7,498233E+22	1,966999E+22	9,465233E+22
1990	3,749037E+22	3,748970E+22	9,835656E+21	9,834974E+21	7,498008E+22	1,967063E+22	9,465071E+22
1991	3,748959E+22	3,749073E+22	9,835873E+21	9,835896E+21	7,498032E+22	1,967177E+22	9,465208E+22
1992	3,749023E+22	3,748900E+22	9,835883E+21	9,836289E+21	7,497923E+22	1,967217E+22	9,465140E+22
1993	3,748773E+22	3,748851E+22	9,837182E+21	9,836309E+21	7,497623E+22	1,967349E+22	9,464972E+22
1994	3,748773E+22	3,748877E+22	9,836830E+21	9,837483E+21	7,497650E+22	1,967431E+22	9,465081E+22
1995	3,748785E+22	3,748667E+22	9,837169E+21	9,837238E+21	7,497452E+22	1,967441E+22	9,464893E+22
1996	3,748633E+22	3,748725E+22	9,837801E+21	9,837216E+21	7,497358E+22	1,967502E+22	9,464859E+22
1997	3,748805E+22	3,748714E+22	9,836941E+21	9,837789E+21	7,497519E+22	1,967473E+22	9,464992E+22
1998	3,748745E+22	3,748647E+22	9,837498E+21	9,836928E+21	7,497392E+22	1,967443E+22	9,464835E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
1999	3,748666E+22	3,748859E+22	9,837324E+21	9,837106E+21	7,497525E+22	1,967443E+22	9,464968E+22
2000	3,748847E+22	3,748796E+22	9,836439E+21	9,837034E+21	7,497643E+22	1,967347E+22	9,464990E+22
2001	3,748749E+22	3,748776E+22	9,837004E+21	9,836078E+21	7,497525E+22	1,967308E+22	9,464833E+22
2002	3,748834E+22	3,748938E+22	9,836230E+21	9,836436E+21	7,497772E+22	1,967267E+22	9,465039E+22
2003	3,748970E+22	3,748833E+22	9,835782E+21	9,835882E+21	7,497803E+22	1,967166E+22	9,464969E+22
2004	3,748848E+22	3,748930E+22	9,836222E+21	9,835467E+21	7,497778E+22	1,967169E+22	9,464947E+22
2005	3,748985E+22	3,749004E+22	9,835279E+21	9,836163E+21	7,497989E+22	1,967144E+22	9,465134E+22
2006	3,748964E+22	3,748869E+22	9,835741E+21	9,835600E+21	7,497833E+22	1,967134E+22	9,464967E+22
2007	3,748845E+22	3,748999E+22	9,836229E+21	9,835812E+21	7,497843E+22	1,967204E+22	9,465048E+22
2008	3,748994E+22	3,748912E+22	9,835733E+21	9,836460E+21	7,497906E+22	1,967219E+22	9,465125E+22
2009	3,748858E+22	3,748764E+22	9,836907E+21	9,836172E+21	7,497621E+22	1,967308E+22	9,464929E+22
2010	3,748753E+22	3,748887E+22	9,837116E+21	9,837152E+21	7,497639E+22	1,967427E+22	9,465066E+22
2011	3,748786E+22	3,748708E+22	9,837083E+21	9,837652E+21	7,497494E+22	1,967473E+22	9,464967E+22
2012	3,748573E+22	3,748631E+22	9,838244E+21	9,837569E+21	7,497203E+22	1,967581E+22	9,464785E+22
2013	3,748612E+22	3,748664E+22	9,837826E+21	9,838541E+21	7,497277E+22	1,967637E+22	9,464913E+22
2014	3,748630E+22	3,748463E+22	9,838252E+21	9,838257E+21	7,497092E+22	1,967651E+22	9,464743E+22
2015	3,748476E+22	3,748584E+22	9,838851E+21	9,838128E+21	7,497060E+22	1,967698E+22	9,464758E+22
2016	3,748621E+22	3,748604E+22	9,837993E+21	9,838761E+21	7,497225E+22	1,967675E+22	9,464900E+22
2017	3,748559E+22	3,748484E+22	9,838494E+21	9,837990E+21	7,497043E+22	1,967648E+22	9,464692E+22
2018	3,748495E+22	3,748687E+22	9,838317E+21	9,838023E+21	7,497183E+22	1,967634E+22	9,464817E+22
2019	3,748683E+22	3,748625E+22	9,837387E+21	9,837932E+21	7,497308E+22	1,967532E+22	9,464840E+22
2020	3,748624E+22	3,748596E+22	9,837802E+21	9,836946E+21	7,497220E+22	1,967475E+22	9,464695E+22
2021	3,748705E+22	3,748783E+22	9,837014E+21	9,837288E+21	7,497488E+22	1,967430E+22	9,464918E+22
2022	3,748805E+22	3,748686E+22	9,836684E+21	9,836894E+21	7,497491E+22	1,967358E+22	9,464849E+22
2023	3,748672E+22	3,748802E+22	9,837162E+21	9,836441E+21	7,497474E+22	1,967360E+22	9,464835E+22
2024	3,748812E+22	3,748858E+22	9,836352E+21	9,837150E+21	7,497670E+22	1,967350E+22	9,465020E+22
2025	3,748811E+22	3,748660E+22	9,836851E+21	9,836652E+21	7,497472E+22	1,967350E+22	9,464822E+22
2026	3,748690E+22	3,748806E+22	9,837411E+21	9,836825E+21	7,497496E+22	1,967424E+22	9,464920E+22
2027	3,748796E+22	3,748740E+22	9,836939E+21	9,837625E+21	7,497536E+22	1,967456E+22	9,464992E+22
2028	3,748648E+22	3,748582E+22	9,838000E+21	9,837446E+21	7,497230E+22	1,967545E+22	9,464775E+22
2029	3,748538E+22	3,748700E+22	9,838188E+21	9,838363E+21	7,497238E+22	1,967655E+22	9,464893E+22
2030	3,748573E+22	3,748492E+22	9,838265E+21	9,838871E+21	7,497064E+22	1,967714E+22	9,464778E+22
2031	3,748393E+22	3,748441E+22	9,839377E+21	9,838601E+21	7,496834E+22	1,967798E+22	9,464632E+22
2032	3,748455E+22	3,748492E+22	9,838978E+21	9,839555E+21	7,496948E+22	1,967853E+22	9,464801E+22
2033	3,748473E+22	3,748271E+22	9,839352E+21	9,839370E+21	7,496744E+22	1,967872E+22	9,464616E+22
2034	3,748308E+22	3,748434E+22	9,839901E+21	9,839191E+21	7,496742E+22	1,967909E+22	9,464651E+22
2035	3,748427E+22	3,748455E+22	9,839004E+21	9,839821E+21	7,496882E+22	1,967883E+22	9,464765E+22
2036	3,748397E+22	3,748306E+22	9,839364E+21	9,838951E+21	7,496702E+22	1,967831E+22	9,464534E+22
2037	3,748361E+22	3,748514E+22	9,839123E+21	9,838785E+21	7,496875E+22	1,967791E+22	9,464666E+22
2038	3,748534E+22	3,748452E+22	9,838294E+21	9,838758E+21	7,496985E+22	1,967705E+22	9,464691E+22
2039	3,748466E+22	3,748472E+22	9,838688E+21	9,837763E+21	7,496938E+22	1,967645E+22	9,464583E+22
2040	3,748532E+22	3,748666E+22	9,837961E+21	9,838238E+21	7,497199E+22	1,967620E+22	9,464818E+22
2041	3,748627E+22	3,748513E+22	9,837661E+21	9,837975E+21	7,497139E+22	1,967564E+22	9,464703E+22
2042	3,748515E+22	3,748627E+22	9,838189E+21	9,837428E+21	7,497142E+22	1,967562E+22	9,464703E+22
2043	3,748646E+22	3,748683E+22	9,837438E+21	9,838153E+21	7,497329E+22	1,967559E+22	9,464888E+22
2044	3,748665E+22	3,748473E+22	9,837868E+21	9,837727E+21	7,497138E+22	1,967559E+22	9,464698E+22
2045	3,748523E+22	3,748635E+22	9,838449E+21	9,837902E+21	7,497158E+22	1,967635E+22	9,464794E+22
2046	3,748578E+22	3,748566E+22	9,838106E+21	9,838892E+21	7,497143E+22	1,967700E+22	9,464843E+22
2047	3,748428E+22	3,748411E+22	9,839161E+21	9,838652E+21	7,496839E+22	1,967781E+22	9,464621E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \ominus	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2048	3,748341E+22	3,748501E+22	9,839416E+21	9,839534E+21	7,496842E+22	1,967895E+22	9,464737E+22
2049	3,748405E+22	3,748251E+22	9,839459E+21	9,840045E+21	7,496656E+22	1,967950E+22	9,464607E+22
2050	3,748245E+22	3,748236E+22	9,840531E+21	9,839667E+21	7,496482E+22	1,968020E+22	9,464501E+22
2051	3,748271E+22	3,748331E+22	9,840122E+21	9,840659E+21	7,496603E+22	1,968078E+22	9,464681E+22
2052	3,748291E+22	3,748117E+22	9,840302E+21	9,840478E+21	7,496408E+22	1,968078E+22	9,464486E+22
2053	3,748124E+22	3,748278E+22	9,840812E+21	9,840119E+21	7,496402E+22	1,968093E+22	9,464495E+22
2054	3,748239E+22	3,748287E+22	9,840003E+21	9,840721E+21	7,496525E+22	1,968072E+22	9,464598E+22
2055	3,748234E+22	3,748158E+22	9,840294E+21	9,839718E+21	7,496391E+22	1,968001E+22	9,464392E+22
2056	3,748214E+22	3,748366E+22	9,840095E+21	9,839624E+21	7,496580E+22	1,967972E+22	9,464552E+22
2057	3,748377E+22	3,748281E+22	9,839232E+21	9,839777E+21	7,496658E+22	1,967901E+22	9,464559E+22
2058	3,748309E+22	3,748323E+22	9,839582E+21	9,838800E+21	7,496633E+22	1,967838E+22	9,464471E+22
2059	3,748360E+22	3,748512E+22	9,838912E+21	9,839288E+21	7,496872E+22	1,967820E+22	9,464692E+22
2060	3,748492E+22	3,748329E+22	9,838516E+21	9,838970E+21	7,496821E+22	1,967749E+22	9,464570E+22
2061	3,748394E+22	3,748453E+22	9,839082E+21	9,838269E+21	7,496846E+22	1,967735E+22	9,464581E+22
2062	3,748485E+22	3,748516E+22	9,838515E+21	9,839120E+21	7,497001E+22	1,967764E+22	9,464764E+22
2063	3,748469E+22	3,748341E+22	9,838976E+21	9,838761E+21	7,496811E+22	1,967774E+22	9,464585E+22
2064	3,748308E+22	3,748485E+22	9,839651E+21	9,839092E+21	7,496793E+22	1,967874E+22	9,464667E+22
2065	3,748353E+22	3,748346E+22	9,839349E+21	9,840188E+21	7,496699E+22	1,967954E+22	9,464653E+22
2066	3,748242E+22	3,748191E+22	9,840378E+21	9,839836E+21	7,496432E+22	1,968021E+22	9,464454E+22
2067	3,748165E+22	3,748285E+22	9,840625E+21	9,840672E+21	7,496451E+22	1,968130E+22	9,464580E+22
2068	3,748253E+22	3,748044E+22	9,840518E+21	9,841199E+21	7,496297E+22	1,968172E+22	9,464469E+22
2069	3,748085E+22	3,748075E+22	9,841518E+21	9,840728E+21	7,496160E+22	1,968225E+22	9,464385E+22
2070	3,748064E+22	3,748180E+22	9,841205E+21	9,841797E+21	7,496244E+22	1,968300E+22	9,464544E+22
2071	3,748084E+22	3,747980E+22	9,841349E+21	9,841468E+21	7,496064E+22	1,968282E+22	9,464345E+22
2072	3,747950E+22	3,748111E+22	9,841876E+21	9,841040E+21	7,496062E+22	1,968292E+22	9,464353E+22
2073	3,748073E+22	3,748081E+22	9,841030E+21	9,841652E+21	7,496154E+22	1,968268E+22	9,464422E+22
2074	3,748089E+22	3,747983E+22	9,841245E+21	9,840626E+21	7,496073E+22	1,968187E+22	9,464260E+22
2075	3,748045E+22	3,748214E+22	9,841029E+21	9,840616E+21	7,496259E+22	1,968164E+22	9,464423E+22
2076	3,748223E+22	3,748125E+22	9,840007E+21	9,840828E+21	7,496348E+22	1,968084E+22	9,464431E+22
2077	3,748172E+22	3,748170E+22	9,840338E+21	9,839681E+21	7,496342E+22	1,968002E+22	9,464344E+22
2078	3,748213E+22	3,748352E+22	9,839839E+21	9,840160E+21	7,496565E+22	1,968000E+22	9,464565E+22
2079	3,748350E+22	3,748197E+22	9,839472E+21	9,839758E+21	7,496547E+22	1,967923E+22	9,464470E+22
2080	3,748244E+22	3,748309E+22	9,840188E+21	9,839203E+21	7,496553E+22	1,967939E+22	9,464492E+22
2081	3,748287E+22	3,748344E+22	9,839692E+21	9,840282E+21	7,496631E+22	1,967997E+22	9,464629E+22
2082	3,748264E+22	3,748165E+22	9,840154E+21	9,840019E+21	7,496429E+22	1,968017E+22	9,464446E+22
2083	3,748090E+22	3,748276E+22	9,840892E+21	9,840371E+21	7,496367E+22	1,968126E+22	9,464493E+22
2084	3,748184E+22	3,748108E+22	9,840422E+21	9,841416E+21	7,496292E+22	1,968184E+22	9,464476E+22
2085	3,748097E+22	3,747972E+22	9,841387E+21	9,840875E+21	7,496069E+22	1,968226E+22	9,464295E+22
2086	3,747990E+22	3,748101E+22	9,841761E+21	9,841777E+21	7,496091E+22	1,968354E+22	9,464445E+22
2087	3,748052E+22	3,747917E+22	9,841619E+21	9,842258E+21	7,495969E+22	1,968388E+22	9,464357E+22
2088	3,747878E+22	3,747937E+22	9,842682E+21	9,841841E+21	7,495815E+22	1,968452E+22	9,464267E+22
2089	3,747846E+22	3,747989E+22	9,842391E+21	9,842897E+21	7,495835E+22	1,968529E+22	9,464363E+22
2090	3,747905E+22	3,747788E+22	9,842449E+21	9,842454E+21	7,495693E+22	1,968490E+22	9,464183E+22
2091	3,747784E+22	3,747917E+22	9,842930E+21	9,841990E+21	7,495701E+22	1,968492E+22	9,464193E+22
2092	3,747937E+22	3,747890E+22	9,841867E+21	9,842650E+21	7,495826E+22	1,968452E+22	9,464278E+22
2093	3,747957E+22	3,747834E+22	9,841965E+21	9,841553E+21	7,495791E+22	1,968352E+22	9,464143E+22
2094	3,747886E+22	3,748075E+22	9,841854E+21	9,841615E+21	7,495961E+22	1,968347E+22	9,464308E+22
2095	3,748069E+22	3,748004E+22	9,840857E+21	9,841662E+21	7,496074E+22	1,968252E+22	9,464326E+22
2096	3,748050E+22	3,748028E+22	9,841289E+21	9,840486E+21	7,496078E+22	1,968178E+22	9,464255E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2097	3,748064E+22	3,748175E+22	9,840907E+21	9,841020E+21	7,496239E+22	1,968193E+22	9,464432E+22
2098	3,748188E+22	3,748045E+22	9,840578E+21	9,840723E+21	7,496233E+22	1,968130E+22	9,464363E+22
2099	3,748037E+22	3,748149E+22	9,841348E+21	9,840345E+21	7,496186E+22	1,968169E+22	9,464355E+22
2100	3,748076E+22	3,748147E+22	9,840736E+21	9,841550E+21	7,496223E+22	1,968229E+22	9,464452E+22
2101	3,748078E+22	3,747960E+22	9,841156E+21	9,841166E+21	7,496038E+22	1,968232E+22	9,464270E+22
2102	3,747910E+22	3,748059E+22	9,841999E+21	9,841526E+21	7,495969E+22	1,968352E+22	9,464321E+22
2103	3,748016E+22	3,747930E+22	9,841530E+21	9,842453E+21	7,495947E+22	1,968398E+22	9,464345E+22
2104	3,747940E+22	3,747807E+22	9,842557E+21	9,841990E+21	7,495747E+22	1,968455E+22	9,464201E+22
2105	3,747782E+22	3,747926E+22	9,842988E+21	9,842998E+21	7,495708E+22	1,968599E+22	9,464307E+22
2106	3,747843E+22	3,747753E+22	9,842833E+21	9,843465E+21	7,495596E+22	1,968630E+22	9,464226E+22
2107	3,747668E+22	3,747741E+22	9,843904E+21	9,842982E+21	7,495409E+22	1,968689E+22	9,464098E+22
2108	3,747679E+22	3,747766E+22	9,843399E+21	9,843947E+21	7,495446E+22	1,968735E+22	9,464180E+22
2109	3,747769E+22	3,747591E+22	9,843316E+21	9,843340E+21	7,495360E+22	1,968666E+22	9,464026E+22
2110	3,747627E+22	3,747748E+22	9,843828E+21	9,842957E+21	7,495375E+22	1,968678E+22	9,464054E+22
2111	3,747769E+22	3,747776E+22	9,842700E+21	9,843543E+21	7,495546E+22	1,968624E+22	9,464170E+22
2112	3,747805E+22	3,747713E+22	9,842844E+21	9,842463E+21	7,495519E+22	1,968531E+22	9,464049E+22
2113	3,747724E+22	3,747919E+22	9,842826E+21	9,842493E+21	7,495642E+22	1,968532E+22	9,464174E+22
2114	3,747933E+22	3,747855E+22	9,841844E+21	9,842464E+21	7,495788E+22	1,968431E+22	9,464219E+22
2115	3,747897E+22	3,747866E+22	9,842363E+21	9,841369E+21	7,495763E+22	1,968373E+22	9,464136E+22
2116	3,747905E+22	3,748002E+22	9,841855E+21	9,842050E+21	7,495907E+22	1,968390E+22	9,464298E+22
2117	3,748012E+22	3,747883E+22	9,841475E+21	9,841816E+21	7,495894E+22	1,968329E+22	9,464224E+22
2118	3,747834E+22	3,747966E+22	9,842372E+21	9,841581E+21	7,495800E+22	1,968395E+22	9,464195E+22
2119	3,747891E+22	3,747966E+22	9,841770E+21	9,842635E+21	7,495856E+22	1,968441E+22	9,464297E+22
2120	3,747933E+22	3,747763E+22	9,842247E+21	9,842222E+21	7,495696E+22	1,968447E+22	9,464143E+22
2121	3,747743E+22	3,747851E+22	9,843183E+21	9,842610E+21	7,495594E+22	1,968579E+22	9,464174E+22
2122	3,747838E+22	3,747762E+22	9,842759E+21	9,843581E+21	7,495601E+22	1,968634E+22	9,464235E+22
2123	3,747722E+22	3,747644E+22	9,843844E+21	9,843218E+21	7,495366E+22	1,968706E+22	9,464073E+22
2124	3,747569E+22	3,747730E+22	9,844130E+21	9,844236E+21	7,495299E+22	1,968837E+22	9,464135E+22
2125	3,747656E+22	3,747555E+22	9,843886E+21	9,844533E+21	7,495210E+22	1,968842E+22	9,464052E+22
2126	3,747488E+22	3,747535E+22	9,844960E+21	9,844036E+21	7,495024E+22	1,968900E+22	9,463923E+22
2127	3,747513E+22	3,747598E+22	9,844373E+21	9,844847E+21	7,495111E+22	1,968922E+22	9,464033E+22
2128	3,747626E+22	3,747445E+22	9,844258E+21	9,844312E+21	7,495070E+22	1,968857E+22	9,463927E+22
2129	3,747450E+22	3,747594E+22	9,844783E+21	9,844001E+21	7,495044E+22	1,968878E+22	9,463922E+22
2130	3,747605E+22	3,747639E+22	9,843681E+21	9,844527E+21	7,495243E+22	1,968821E+22	9,464064E+22
2131	3,747651E+22	3,747555E+22	9,843843E+21	9,843363E+21	7,495206E+22	1,968721E+22	9,463927E+22
2132	3,747595E+22	3,747730E+22	9,843687E+21	9,843338E+21	7,495325E+22	1,968703E+22	9,464027E+22
2133	3,747806E+22	3,747695E+22	9,842668E+21	9,843251E+21	7,495501E+22	1,968592E+22	9,464093E+22
2134	3,747726E+22	3,747713E+22	9,843284E+21	9,842377E+21	7,495439E+22	1,968566E+22	9,464005E+22
2135	3,747705E+22	3,747871E+22	9,842794E+21	9,843059E+21	7,495576E+22	1,968585E+22	9,464161E+22
2136	3,747832E+22	3,747725E+22	9,842486E+21	9,842913E+21	7,495556E+22	1,968540E+22	9,464096E+22
2137	3,747648E+22	3,747759E+22	9,843478E+21	9,842676E+21	7,495407E+22	1,968615E+22	9,464022E+22
2138	3,747737E+22	3,747770E+22	9,842934E+21	9,843670E+21	7,495508E+22	1,968660E+22	9,464168E+22
2139	3,747769E+22	3,747573E+22	9,843479E+21	9,843315E+21	7,495343E+22	1,968679E+22	9,464022E+22
2140	3,747571E+22	3,747661E+22	9,844297E+21	9,843818E+21	7,495232E+22	1,968811E+22	9,464044E+22
2141	3,747646E+22	3,747598E+22	9,843846E+21	9,844792E+21	7,495244E+22	1,968864E+22	9,464108E+22
2142	3,747502E+22	3,747459E+22	9,845025E+21	9,844515E+21	7,494962E+22	1,968954E+22	9,463916E+22
2143	3,747366E+22	3,747546E+22	9,845261E+21	9,845297E+21	7,494912E+22	1,969056E+22	9,463968E+22
2144	3,747497E+22	3,747359E+22	9,844987E+21	9,845539E+21	7,494855E+22	1,969053E+22	9,463908E+22
2145	3,747311E+22	3,747337E+22	9,846055E+21	9,845051E+21	7,494647E+22	1,969111E+22	9,463758E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2146	3,747343E+22	3,747439E+22	9,845423E+21	9,845853E+21	7,494782E+22	1,969128E+22	9,463910E+22
2147	3,747434E+22	3,747299E+22	9,845296E+21	9,845357E+21	7,494732E+22	1,969065E+22	9,463798E+22
2148	3,747287E+22	3,747424E+22	9,845639E+21	9,845004E+21	7,494711E+22	1,969064E+22	9,463775E+22
2149	3,747471E+22	3,747475E+22	9,844490E+21	9,845339E+21	7,494947E+22	1,968983E+22	9,463929E+22
2150	3,747513E+22	3,747394E+22	9,844708E+21	9,844213E+21	7,494907E+22	1,968892E+22	9,463799E+22
2151	3,747452E+22	3,747596E+22	9,844541E+21	9,844086E+21	7,495048E+22	1,968863E+22	9,463911E+22
2152	3,747658E+22	3,747568E+22	9,843565E+21	9,844166E+21	7,495226E+22	1,968773E+22	9,463999E+22
2153	3,747529E+22	3,747558E+22	9,844274E+21	9,843466E+21	7,495087E+22	1,968774E+22	9,463861E+22
2154	3,747523E+22	3,747701E+22	9,843878E+21	9,844141E+21	7,495223E+22	1,968802E+22	9,464025E+22
2155	3,747662E+22	3,747530E+22	9,843640E+21	9,843985E+21	7,495192E+22	1,968763E+22	9,463954E+22
2156	3,747509E+22	3,747539E+22	9,844487E+21	9,843748E+21	7,495048E+22	1,968823E+22	9,463871E+22
2157	3,747594E+22	3,747586E+22	9,843965E+21	9,844708E+21	7,495180E+22	1,968867E+22	9,464047E+22
2158	3,747575E+22	3,747411E+22	9,844601E+21	9,844546E+21	7,494986E+22	1,968915E+22	9,463901E+22
2159	3,747349E+22	3,747514E+22	9,845441E+21	9,844974E+21	7,494863E+22	1,969041E+22	9,463904E+22
2160	3,747442E+22	3,747430E+22	9,845048E+21	9,845964E+21	7,494872E+22	1,969101E+22	9,463973E+22
2161	3,747288E+22	3,747246E+22	9,846271E+21	9,845669E+21	7,494534E+22	1,969194E+22	9,463727E+22
2162	3,747182E+22	3,747339E+22	9,846494E+21	9,846354E+21	7,494522E+22	1,969285E+22	9,463806E+22
2163	3,747316E+22	3,747165E+22	9,846170E+21	9,846623E+21	7,494481E+22	1,969279E+22	9,463760E+22
2164	3,747142E+22	3,747139E+22	9,846980E+21	9,846200E+21	7,494282E+22	1,969318E+22	9,463600E+22
2165	3,747183E+22	3,747278E+22	9,846289E+21	9,846912E+21	7,494460E+22	1,969320E+22	9,463780E+22
2166	3,747269E+22	3,747139E+22	9,846184E+21	9,846394E+21	7,494408E+22	1,969258E+22	9,463665E+22
2167	3,747148E+22	3,747276E+22	9,846481E+21	9,845756E+21	7,494424E+22	1,969224E+22	9,463647E+22
2168	3,747358E+22	3,747335E+22	9,845356E+21	9,846042E+21	7,494693E+22	1,969140E+22	9,463833E+22
2169	3,747350E+22	3,747246E+22	9,845657E+21	9,845039E+21	7,494597E+22	1,969070E+22	9,463666E+22
2170	3,747273E+22	3,747466E+22	9,845553E+21	9,845002E+21	7,494739E+22	1,969056E+22	9,463795E+22
2171	3,747453E+22	3,747423E+22	9,844639E+21	9,845218E+21	7,494876E+22	1,968986E+22	9,463862E+22
2172	3,747355E+22	3,747362E+22	9,845204E+21	9,844573E+21	7,494717E+22	1,968978E+22	9,463695E+22
2173	3,747384E+22	3,747503E+22	9,844818E+21	9,845134E+21	7,494888E+22	1,968995E+22	9,463883E+22
2174	3,747513E+22	3,747342E+22	9,844648E+21	9,845068E+21	7,494855E+22	1,968972E+22	9,463827E+22
2175	3,747356E+22	3,747382E+22	9,845499E+21	9,844751E+21	7,494738E+22	1,969025E+22	9,463763E+22
2176	3,747424E+22	3,747443E+22	9,845066E+21	9,845836E+21	7,494867E+22	1,969090E+22	9,463957E+22
2177	3,747347E+22	3,747245E+22	9,845838E+21	9,845820E+21	7,494592E+22	1,969166E+22	9,463758E+22
2178	3,747136E+22	3,747325E+22	9,846748E+21	9,846164E+21	7,494460E+22	1,969291E+22	9,463752E+22
2179	3,747234E+22	3,747213E+22	9,846378E+21	9,847104E+21	7,494447E+22	1,969348E+22	9,463795E+22
2180	3,747116E+22	3,747006E+22	9,847359E+21	9,846805E+21	7,494122E+22	1,969416E+22	9,463538E+22
2181	3,747022E+22	3,747132E+22	9,847509E+21	9,847426E+21	7,494154E+22	1,969494E+22	9,463647E+22
2182	3,747124E+22	3,746995E+22	9,847162E+21	9,847806E+21	7,494119E+22	1,969497E+22	9,463616E+22
2183	3,746962E+22	3,746997E+22	9,847871E+21	9,847197E+21	7,493959E+22	1,969507E+22	9,463466E+22
2184	3,747034E+22	3,747134E+22	9,847214E+21	9,847798E+21	7,494169E+22	1,969501E+22	9,463670E+22
2185	3,747106E+22	3,746984E+22	9,847166E+21	9,847223E+21	7,494089E+22	1,969439E+22	9,463528E+22
2186	3,747004E+22	3,747129E+22	9,847501E+21	9,846504E+21	7,494133E+22	1,969400E+22	9,463534E+22
2187	3,747190E+22	3,747196E+22	9,846417E+21	9,846899E+21	7,494386E+22	1,969332E+22	9,463718E+22
2188	3,747178E+22	3,747083E+22	9,846522E+21	9,846107E+21	7,494261E+22	1,969263E+22	9,463524E+22
2189	3,747105E+22	3,747298E+22	9,846432E+21	9,846092E+21	7,494403E+22	1,969252E+22	9,463656E+22
2190	3,747284E+22	3,747240E+22	9,845569E+21	9,846360E+21	7,494524E+22	1,969193E+22	9,463716E+22
2191	3,747223E+22	3,747179E+22	9,846074E+21	9,845494E+21	7,494402E+22	1,969157E+22	9,463559E+22
2192	3,747273E+22	3,747339E+22	9,845767E+21	9,846033E+21	7,494613E+22	1,969180E+22	9,463793E+22
2193	3,747340E+22	3,747186E+22	9,845732E+21	9,846101E+21	7,494525E+22	1,969183E+22	9,463709E+22
2194	3,747154E+22	3,747239E+22	9,846721E+21	9,845854E+21	7,494393E+22	1,969257E+22	9,463650E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2195	3,747191E+22	3,747282E+22	9,846396E+21	9,847022E+21	7,494473E+22	1,969342E+22	9,463815E+22
2196	3,747134E+22	3,747021E+22	9,847026E+21	9,847072E+21	7,494155E+22	1,969410E+22	9,463564E+22
2197	3,746957E+22	3,747092E+22	9,847911E+21	9,847308E+21	7,494049E+22	1,969522E+22	9,463571E+22
2198	3,747050E+22	3,746993E+22	9,847512E+21	9,848301E+21	7,494043E+22	1,969581E+22	9,463624E+22
2199	3,746945E+22	3,746820E+22	9,848349E+21	9,847885E+21	7,493765E+22	1,969623E+22	9,463389E+22
2200	3,746859E+22	3,746980E+22	9,848483E+21	9,848524E+21	7,493839E+22	1,969701E+22	9,463540E+22
2201	3,746923E+22	3,746842E+22	9,848216E+21	9,848924E+21	7,493765E+22	1,969714E+22	9,463479E+22
2202	3,746795E+22	3,746842E+22	9,848970E+21	9,848133E+21	7,493636E+22	1,969710E+22	9,463347E+22
2203	3,746876E+22	3,746973E+22	9,848339E+21	9,848629E+21	7,493849E+22	1,969697E+22	9,463546E+22
2204	3,746960E+22	3,746804E+22	9,848080E+21	9,848104E+21	7,493764E+22	1,969618E+22	9,463382E+22
2205	3,746855E+22	3,746968E+22	9,848379E+21	9,847416E+21	7,493823E+22	1,969580E+22	9,463402E+22
2206	3,746995E+22	3,747049E+22	9,847300E+21	9,847977E+21	7,494044E+22	1,969528E+22	9,463571E+22
2207	3,747006E+22	3,746934E+22	9,847316E+21	9,847090E+21	7,493940E+22	1,969441E+22	9,463381E+22
2208	3,746976E+22	3,747132E+22	9,847279E+21	9,847005E+21	7,494108E+22	1,969428E+22	9,463536E+22
2209	3,747136E+22	3,747068E+22	9,846540E+21	9,847279E+21	7,494204E+22	1,969382E+22	9,463586E+22
2210	3,747093E+22	3,747023E+22	9,847118E+21	9,846360E+21	7,494116E+22	1,969348E+22	9,463464E+22
2211	3,747103E+22	3,747192E+22	9,846939E+21	9,847017E+21	7,494294E+22	1,969396E+22	9,463690E+22
2212	3,747143E+22	3,747017E+22	9,846806E+21	9,847309E+21	7,494161E+22	1,969412E+22	9,463572E+22
2213	3,746956E+22	3,747048E+22	9,847878E+21	9,847096E+21	7,494004E+22	1,969497E+22	9,463501E+22
2214	3,746975E+22	3,747069E+22	9,847615E+21	9,848292E+21	7,494044E+22	1,969591E+22	9,463635E+22
2215	3,746959E+22	3,746803E+22	9,848117E+21	9,848173E+21	7,493762E+22	1,969629E+22	9,463391E+22
2216	3,746805E+22	3,746887E+22	9,848986E+21	9,848379E+21	7,493692E+22	1,969736E+22	9,463428E+22
2217	3,746846E+22	3,746812E+22	9,848654E+21	9,849468E+21	7,493658E+22	1,969812E+22	9,463470E+22
2218	3,746744E+22	3,746667E+22	9,849499E+21	9,849011E+21	7,493411E+22	1,969851E+22	9,463261E+22
2219	3,746655E+22	3,746825E+22	9,849694E+21	9,849613E+21	7,493479E+22	1,969931E+22	9,463410E+22
2220	3,746747E+22	3,746653E+22	9,849255E+21	9,849979E+21	7,493400E+22	1,969923E+22	9,463323E+22
2221	3,746652E+22	3,746655E+22	9,849972E+21	9,849063E+21	7,493307E+22	1,969903E+22	9,463211E+22
2222	3,746714E+22	3,746802E+22	9,849312E+21	9,849583E+21	7,493516E+22	1,969890E+22	9,463405E+22
2223	3,746805E+22	3,746652E+22	9,848889E+21	9,849018E+21	7,493457E+22	1,969791E+22	9,463248E+22
2224	3,746707E+22	3,746829E+22	9,849167E+21	9,848384E+21	7,493536E+22	1,969755E+22	9,463291E+22
2225	3,746814E+22	3,746895E+22	9,848191E+21	9,848986E+21	7,493709E+22	1,969718E+22	9,463427E+22
2226	3,746864E+22	3,746771E+22	9,848270E+21	9,847950E+21	7,493635E+22	1,969622E+22	9,463257E+22
2227	3,746847E+22	3,746971E+22	9,848311E+21	9,847815E+21	7,493818E+22	1,969613E+22	9,463431E+22
2228	3,746999E+22	3,746892E+22	9,847482E+21	9,848203E+21	7,493891E+22	1,969568E+22	9,463459E+22
2229	3,746937E+22	3,746865E+22	9,848140E+21	9,847391E+21	7,493801E+22	1,969553E+22	9,463355E+22
2230	3,746885E+22	3,747038E+22	9,848052E+21	9,848202E+21	7,493923E+22	1,969625E+22	9,463548E+22
2231	3,746937E+22	3,746842E+22	9,847870E+21	9,848456E+21	7,493780E+22	1,969633E+22	9,463412E+22
2232	3,746782E+22	3,746850E+22	9,848979E+21	9,848204E+21	7,493632E+22	1,969718E+22	9,463351E+22
2233	3,746775E+22	3,746860E+22	9,848813E+21	9,849429E+21	7,493635E+22	1,969824E+22	9,463460E+22
2234	3,746782E+22	3,746611E+22	9,849337E+21	9,849274E+21	7,493392E+22	1,969861E+22	9,463253E+22
2235	3,746614E+22	3,746712E+22	9,850222E+21	9,849561E+21	7,493325E+22	1,969978E+22	9,463304E+22
2236	3,746645E+22	3,746625E+22	9,849750E+21	9,850766E+21	7,493270E+22	1,970052E+22	9,463322E+22
2237	3,746570E+22	3,746476E+22	9,850600E+21	9,850217E+21	7,493046E+22	1,970082E+22	9,463128E+22
2238	3,746476E+22	3,746632E+22	9,850799E+21	9,850692E+21	7,493108E+22	1,970149E+22	9,463257E+22
2239	3,746607E+22	3,746476E+22	9,850180E+21	9,850849E+21	7,493083E+22	1,970103E+22	9,463186E+22
2240	3,746524E+22	3,746495E+22	9,850839E+21	9,849894E+21	7,493019E+22	1,970073E+22	9,463092E+22
2241	3,746516E+22	3,746660E+22	9,850254E+21	9,850515E+21	7,493177E+22	1,970077E+22	9,463254E+22
2242	3,746618E+22	3,746523E+22	9,849827E+21	9,849930E+21	7,493141E+22	1,969976E+22	9,463116E+22
2243	3,746532E+22	3,746676E+22	9,850157E+21	9,849298E+21	7,493208E+22	1,969946E+22	9,463153E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2244	3,746668E+22	3,746709E+22	9,849086E+21	9,849910E+21	7,493377E+22	1,969900E+22	9,463277E+22
2245	3,746753E+22	3,746593E+22	9,849175E+21	9,848827E+21	7,493346E+22	1,969800E+22	9,463146E+22
2246	3,746699E+22	3,746812E+22	9,849277E+21	9,848762E+21	7,493512E+22	1,969804E+22	9,463316E+22
2247	3,746841E+22	3,746754E+22	9,848372E+21	9,849196E+21	7,493594E+22	1,969757E+22	9,463351E+22
2248	3,746763E+22	3,746721E+22	9,849102E+21	9,848503E+21	7,493484E+22	1,969760E+22	9,463245E+22
2249	3,746663E+22	3,746863E+22	9,849212E+21	9,849380E+21	7,493526E+22	1,969859E+22	9,463385E+22
2250	3,746750E+22	3,746647E+22	9,849092E+21	9,849540E+21	7,493397E+22	1,969863E+22	9,463261E+22
2251	3,746610E+22	3,746643E+22	9,850235E+21	9,849295E+21	7,493253E+22	1,969953E+22	9,463206E+22
2252	3,746595E+22	3,746640E+22	9,849952E+21	9,850635E+21	7,493235E+22	1,970059E+22	9,463294E+22
2253	3,746599E+22	3,746416E+22	9,850475E+21	9,850535E+21	7,493014E+22	1,970101E+22	9,463115E+22
2254	3,746399E+22	3,746534E+22	9,851368E+21	9,850841E+21	7,492933E+22	1,970221E+22	9,463154E+22
2255	3,746464E+22	3,746442E+22	9,850799E+21	9,851881E+21	7,492906E+22	1,970268E+22	9,463174E+22
2256	3,746423E+22	3,746300E+22	9,851619E+21	9,851186E+21	7,492724E+22	1,970281E+22	9,463004E+22
2257	3,746299E+22	3,746461E+22	9,851870E+21	9,851594E+21	7,492760E+22	1,970346E+22	9,463107E+22
2258	3,746437E+22	3,746324E+22	9,851239E+21	9,851695E+21	7,492761E+22	1,970293E+22	9,463055E+22
2259	3,746339E+22	3,746357E+22	9,851864E+21	9,850850E+21	7,492696E+22	1,970271E+22	9,462968E+22
2260	3,746323E+22	3,746491E+22	9,851156E+21	9,851589E+21	7,492814E+22	1,970275E+22	9,463089E+22
2261	3,746465E+22	3,746343E+22	9,850746E+21	9,850954E+21	7,492808E+22	1,970170E+22	9,462978E+22
2262	3,746392E+22	3,746496E+22	9,851056E+21	9,850225E+21	7,492888E+22	1,970128E+22	9,463016E+22
2263	3,746562E+22	3,746543E+22	9,849873E+21	9,850709E+21	7,493105E+22	1,970058E+22	9,463163E+22
2264	3,746640E+22	3,746459E+22	9,849971E+21	9,849654E+21	7,493099E+22	1,969963E+22	9,463062E+22
2265	3,746506E+22	3,746687E+22	9,850248E+21	9,849727E+21	7,493193E+22	1,969998E+22	9,463190E+22
2266	3,746637E+22	3,746625E+22	9,849465E+21	9,850194E+21	7,493262E+22	1,969966E+22	9,463228E+22
2267	3,746565E+22	3,746554E+22	9,850304E+21	9,849591E+21	7,493119E+22	1,969990E+22	9,463109E+22
2268	3,746473E+22	3,746643E+22	9,850365E+21	9,850527E+21	7,493116E+22	1,970089E+22	9,463205E+22
2269	3,746595E+22	3,746425E+22	9,850260E+21	9,850709E+21	7,493020E+22	1,970097E+22	9,463117E+22
2270	3,746430E+22	3,746435E+22	9,851384E+21	9,850516E+21	7,492865E+22	1,970190E+22	9,463055E+22
2271	3,746421E+22	3,746458E+22	9,850978E+21	9,851858E+21	7,492880E+22	1,970284E+22	9,463163E+22
2272	3,746427E+22	3,746250E+22	9,851489E+21	9,851735E+21	7,492676E+22	1,970322E+22	9,462999E+22
2273	3,746191E+22	3,746355E+22	9,852543E+21	9,851972E+21	7,492545E+22	1,970451E+22	9,462997E+22
2274	3,746289E+22	3,746272E+22	9,852000E+21	9,852806E+21	7,492561E+22	1,970481E+22	9,463042E+22
2275	3,746252E+22	3,746130E+22	9,852800E+21	9,852114E+21	7,492383E+22	1,970491E+22	9,462874E+22
2276	3,746102E+22	3,746277E+22	9,852932E+21	9,852615E+21	7,492379E+22	1,970555E+22	9,462934E+22
2277	3,746246E+22	3,746154E+22	9,852249E+21	9,852786E+21	7,492400E+22	1,970503E+22	9,462904E+22
2278	3,746135E+22	3,746186E+22	9,852809E+21	9,851941E+21	7,492321E+22	1,970475E+22	9,462796E+22
2279	3,746177E+22	3,746312E+22	9,851959E+21	9,852534E+21	7,492489E+22	1,970449E+22	9,462939E+22
2280	3,746360E+22	3,746182E+22	9,851492E+21	9,851773E+21	7,492543E+22	1,970327E+22	9,462869E+22
2281	3,746260E+22	3,746350E+22	9,851919E+21	9,851026E+21	7,492609E+22	1,970294E+22	9,462904E+22
2282	3,746424E+22	3,746425E+22	9,850819E+21	9,851483E+21	7,492849E+22	1,970230E+22	9,463080E+22
2283	3,746471E+22	3,746347E+22	9,850983E+21	9,850627E+21	7,492817E+22	1,970161E+22	9,462978E+22
2284	3,746304E+22	3,746521E+22	9,851287E+21	9,850847E+21	7,492825E+22	1,970213E+22	9,463038E+22
2285	3,746460E+22	3,746427E+22	9,850603E+21	9,851332E+21	7,492887E+22	1,970193E+22	9,463080E+22
2286	3,746392E+22	3,746342E+22	9,851435E+21	9,850704E+21	7,492734E+22	1,970214E+22	9,462948E+22
2287	3,746331E+22	3,746427E+22	9,851380E+21	9,851597E+21	7,492758E+22	1,970298E+22	9,463056E+22
2288	3,746440E+22	3,746247E+22	9,851254E+21	9,851825E+21	7,492687E+22	1,970308E+22	9,462995E+22
2289	3,746216E+22	3,746274E+22	9,852478E+21	9,851711E+21	7,492489E+22	1,970419E+22	9,462908E+22
2290	3,746208E+22	3,746302E+22	9,852189E+21	9,852964E+21	7,492510E+22	1,970515E+22	9,463025E+22
2291	3,746228E+22	3,746084E+22	9,852759E+21	9,852838E+21	7,492312E+22	1,970560E+22	9,462872E+22
2292	3,745995E+22	3,746150E+22	9,853752E+21	9,853049E+21	7,492145E+22	1,970680E+22	9,462825E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2293	3,746116E+22	3,746071E+22	9,853208E+21	9,853875E+21	7,492188E+22	1,970708E+22	9,462896E+22
2294	3,746054E+22	3,745947E+22	9,853897E+21	9,853229E+21	7,492001E+22	1,970713E+22	9,462714E+22
2295	3,745922E+22	3,746097E+22	9,853812E+21	9,853733E+21	7,492019E+22	1,970755E+22	9,462773E+22
2296	3,746085E+22	3,745991E+22	9,853051E+21	9,853840E+21	7,492076E+22	1,970689E+22	9,462765E+22
2297	3,745977E+22	3,746014E+22	9,853669E+21	9,852881E+21	7,491991E+22	1,970655E+22	9,462646E+22
2298	3,746063E+22	3,746162E+22	9,852866E+21	9,853249E+21	7,492225E+22	1,970612E+22	9,462836E+22
2299	3,746245E+22	3,746058E+22	9,852411E+21	9,852519E+21	7,492304E+22	1,970493E+22	9,462797E+22
2300	3,746097E+22	3,746211E+22	9,852846E+21	9,851902E+21	7,492308E+22	1,970475E+22	9,462783E+22
2301	3,746247E+22	3,746288E+22	9,851842E+21	9,852474E+21	7,492535E+22	1,970432E+22	9,462967E+22
2302	3,746265E+22	3,746185E+22	9,852046E+21	9,851705E+21	7,492449E+22	1,970375E+22	9,462825E+22
2303	3,746139E+22	3,746325E+22	9,852268E+21	9,851898E+21	7,492463E+22	1,970417E+22	9,462880E+22
2304	3,746319E+22	3,746236E+22	9,851544E+21	9,852344E+21	7,492555E+22	1,970389E+22	9,462944E+22
2305	3,746220E+22	3,746150E+22	9,852476E+21	9,851773E+21	7,492370E+22	1,970425E+22	9,462795E+22
2306	3,746158E+22	3,746267E+22	9,852495E+21	9,852647E+21	7,492425E+22	1,970514E+22	9,462939E+22
2307	3,746243E+22	3,746102E+22	9,852409E+21	9,853041E+21	7,492345E+22	1,970545E+22	9,462890E+22
2308	3,745996E+22	3,746082E+22	9,853691E+21	9,852988E+21	7,492078E+22	1,970668E+22	9,462746E+22
2309	3,746023E+22	3,746092E+22	9,853500E+21	9,854160E+21	7,492115E+22	1,970766E+22	9,462881E+22
2310	3,746038E+22	3,745875E+22	9,854013E+21	9,853961E+21	7,491914E+22	1,970797E+22	9,462711E+22
2311	3,745831E+22	3,745940E+22	9,854807E+21	9,854128E+21	7,491771E+22	1,970894E+22	9,462665E+22
2312	3,745937E+22	3,745898E+22	9,854153E+21	9,854948E+21	7,491835E+22	1,970910E+22	9,462745E+22
2313	3,745839E+22	3,745782E+22	9,854856E+21	9,854343E+21	7,491621E+22	1,970920E+22	9,462541E+22
2314	3,745742E+22	3,745938E+22	9,854798E+21	9,854673E+21	7,491680E+22	1,970947E+22	9,462627E+22
2315	3,745940E+22	3,745842E+22	9,854019E+21	9,854734E+21	7,491782E+22	1,970875E+22	9,462657E+22
2316	3,745843E+22	3,745844E+22	9,854588E+21	9,853726E+21	7,491686E+22	1,970831E+22	9,462518E+22
2317	3,745945E+22	3,746006E+22	9,853861E+21	9,854079E+21	7,491951E+22	1,970794E+22	9,462745E+22
2318	3,746082E+22	3,745932E+22	9,853369E+21	9,853431E+21	7,492014E+22	1,970680E+22	9,462694E+22
2319	3,745935E+22	3,746063E+22	9,853684E+21	9,852915E+21	7,491998E+22	1,970660E+22	9,462658E+22
2320	3,746074E+22	3,746134E+22	9,852716E+21	9,853481E+21	7,492208E+22	1,970620E+22	9,462828E+22
2321	3,746087E+22	3,746002E+22	9,853015E+21	9,852721E+21	7,492089E+22	1,970574E+22	9,462663E+22
2322	3,745993E+22	3,746139E+22	9,853306E+21	9,852792E+21	7,492131E+22	1,970610E+22	9,462741E+22
2323	3,746166E+22	3,746074E+22	9,852614E+21	9,853363E+21	7,492241E+22	1,970598E+22	9,462838E+22
2324	3,746026E+22	3,745972E+22	9,853551E+21	9,852933E+21	7,491998E+22	1,970648E+22	9,462647E+22
2325	3,745961E+22	3,746089E+22	9,853704E+21	9,853874E+21	7,492050E+22	1,970758E+22	9,462808E+22
2326	3,746026E+22	3,745920E+22	9,853658E+21	9,854261E+21	7,491946E+22	1,970792E+22	9,462737E+22
2327	3,745822E+22	3,745868E+22	9,854833E+21	9,854154E+21	7,491690E+22	1,970899E+22	9,462588E+22
2328	3,745859E+22	3,745895E+22	9,854602E+21	9,855222E+21	7,491754E+22	1,970982E+22	9,462736E+22
2329	3,745847E+22	3,745683E+22	9,855138E+21	9,855074E+21	7,491530E+22	1,971021E+22	9,462551E+22
2330	3,745641E+22	3,745774E+22	9,855902E+21	9,855182E+21	7,491415E+22	1,971108E+22	9,462523E+22
2331	3,745740E+22	3,745750E+22	9,855195E+21	9,856091E+21	7,491490E+22	1,971129E+22	9,462619E+22
2332	3,745644E+22	3,745593E+22	9,855875E+21	9,855453E+21	7,491236E+22	1,971133E+22	9,462369E+22
2333	3,745607E+22	3,745747E+22	9,855868E+21	9,855633E+21	7,491354E+22	1,971150E+22	9,462504E+22
2334	3,745803E+22	3,745676E+22	9,855025E+21	9,855581E+21	7,491479E+22	1,971061E+22	9,462539E+22
2335	3,745722E+22	3,745687E+22	9,855423E+21	9,854586E+21	7,491409E+22	1,971001E+22	9,462410E+22
2336	3,745792E+22	3,745885E+22	9,854648E+21	9,854936E+21	7,491676E+22	1,970958E+22	9,462635E+22
2337	3,745877E+22	3,745797E+22	9,854245E+21	9,854405E+21	7,491675E+22	1,970865E+22	9,462540E+22
2338	3,745754E+22	3,745913E+22	9,854646E+21	9,853803E+21	7,491667E+22	1,970845E+22	9,462512E+22
2339	3,745913E+22	3,745976E+22	9,853703E+21	9,854421E+21	7,491889E+22	1,970812E+22	9,462701E+22
2340	3,745925E+22	3,745806E+22	9,854031E+21	9,853731E+21	7,491731E+22	1,970776E+22	9,462507E+22
2341	3,745854E+22	3,745946E+22	9,854421E+21	9,853852E+21	7,491800E+22	1,970827E+22	9,462627E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2342	3,745982E+22	3,745910E+22	9,853723E+21	9,854519E+21	7,491892E+22	1,970824E+22	9,462716E+22
2343	3,745852E+22	3,745789E+22	9,854556E+21	9,854181E+21	7,491642E+22	1,970874E+22	9,462515E+22
2344	3,745784E+22	3,745906E+22	9,854770E+21	9,855026E+21	7,491689E+22	1,970980E+22	9,462669E+22
2345	3,745837E+22	3,745723E+22	9,854835E+21	9,855389E+21	7,491560E+22	1,971022E+22	9,462582E+22
2346	3,745654E+22	3,745679E+22	9,856043E+21	9,855151E+21	7,491333E+22	1,971119E+22	9,462452E+22
2347	3,745667E+22	3,745733E+22	9,855792E+21	9,856312E+21	7,491400E+22	1,971210E+22	9,462611E+22
2348	3,745618E+22	3,745499E+22	9,856292E+21	9,856284E+21	7,491117E+22	1,971258E+22	9,462374E+22
2349	3,745437E+22	3,745578E+22	9,857091E+21	9,856379E+21	7,491015E+22	1,971347E+22	9,462362E+22
2350	3,745542E+22	3,745566E+22	9,856329E+21	9,857183E+21	7,491108E+22	1,971351E+22	9,462459E+22
2351	3,745513E+22	3,745395E+22	9,856773E+21	9,856445E+21	7,490908E+22	1,971322E+22	9,462230E+22
2352	3,745489E+22	3,745583E+22	9,856712E+21	9,856466E+21	7,491071E+22	1,971318E+22	9,462389E+22
2353	3,745652E+22	3,745539E+22	9,855894E+21	9,856441E+21	7,491191E+22	1,971233E+22	9,462424E+22
2354	3,745561E+22	3,745569E+22	9,856287E+21	9,855424E+21	7,491131E+22	1,971171E+22	9,462302E+22
2355	3,745608E+22	3,745771E+22	9,855550E+21	9,855880E+21	7,491379E+22	1,971143E+22	9,462522E+22
2356	3,745689E+22	3,745621E+22	9,855209E+21	9,855398E+21	7,491310E+22	1,971061E+22	9,462371E+22
2357	3,745619E+22	3,745710E+22	9,855696E+21	9,854747E+21	7,491330E+22	1,971044E+22	9,462374E+22
2358	3,745767E+22	3,745794E+22	9,854742E+21	9,855351E+21	7,491561E+22	1,971009E+22	9,462570E+22
2359	3,745792E+22	3,745622E+22	9,854913E+21	9,854780E+21	7,491415E+22	1,970969E+22	9,462384E+22
2360	3,745691E+22	3,745794E+22	9,855322E+21	9,854918E+21	7,491485E+22	1,971024E+22	9,462509E+22
2361	3,745777E+22	3,745752E+22	9,854774E+21	9,855670E+21	7,491529E+22	1,971044E+22	9,462573E+22
2362	3,745667E+22	3,745622E+22	9,855716E+21	9,855233E+21	7,491290E+22	1,971095E+22	9,462385E+22
2363	3,745603E+22	3,745739E+22	9,855982E+21	9,856088E+21	7,491342E+22	1,971207E+22	9,462549E+22
2364	3,745636E+22	3,745518E+22	9,856106E+21	9,856537E+21	7,491154E+22	1,971264E+22	9,462419E+22
2365	3,745468E+22	3,745474E+22	9,857352E+21	9,856358E+21	7,490943E+22	1,971371E+22	9,462314E+22
2366	3,745441E+22	3,745549E+22	9,857017E+21	9,857570E+21	7,490990E+22	1,971459E+22	9,462448E+22
2367	3,745422E+22	3,745290E+22	9,857313E+21	9,857594E+21	7,490712E+22	1,971491E+22	9,462203E+22
2368	3,745276E+22	3,745377E+22	9,858033E+21	9,857478E+21	7,490653E+22	1,971551E+22	9,462204E+22
2369	3,745390E+22	3,745373E+22	9,857300E+21	9,858156E+21	7,490763E+22	1,971546E+22	9,462308E+22
2370	3,745388E+22	3,745244E+22	9,857700E+21	9,857227E+21	7,490632E+22	1,971493E+22	9,462125E+22
2371	3,745339E+22	3,745471E+22	9,857611E+21	9,857279E+21	7,490811E+22	1,971489E+22	9,462300E+22
2372	3,745450E+22	3,745406E+22	9,856838E+21	9,857366E+21	7,490857E+22	1,971420E+22	9,462277E+22
2373	3,745381E+22	3,745412E+22	9,857314E+21	9,856380E+21	7,490793E+22	1,971369E+22	9,462163E+22
2374	3,745420E+22	3,745604E+22	9,856577E+21	9,856788E+21	7,491025E+22	1,971336E+22	9,462361E+22
2375	3,745559E+22	3,745425E+22	9,856063E+21	9,856363E+21	7,490983E+22	1,971243E+22	9,462226E+22
2376	3,745505E+22	3,745531E+22	9,856515E+21	9,855652E+21	7,491037E+22	1,971217E+22	9,462253E+22
2377	3,745618E+22	3,745636E+22	9,855653E+21	9,856362E+21	7,491254E+22	1,971202E+22	9,462456E+22
2378	3,745631E+22	3,745493E+22	9,855843E+21	9,855800E+21	7,491124E+22	1,971164E+22	9,462289E+22
2379	3,745507E+22	3,745664E+22	9,856360E+21	9,856008E+21	7,491172E+22	1,971237E+22	9,462408E+22
2380	3,745577E+22	3,745566E+22	9,855984E+21	9,856795E+21	7,491143E+22	1,971278E+22	9,462420E+22
2381	3,745502E+22	3,745410E+22	9,857049E+21	9,856343E+21	7,490913E+22	1,971339E+22	9,462252E+22
2382	3,745404E+22	3,745546E+22	9,857308E+21	9,857199E+21	7,490950E+22	1,971451E+22	9,462400E+22
2383	3,745445E+22	3,745309E+22	9,857216E+21	9,857810E+21	7,490754E+22	1,971503E+22	9,462256E+22
2384	3,745261E+22	3,745277E+22	9,858382E+21	9,857605E+21	7,490538E+22	1,971599E+22	9,462136E+22
2385	3,745225E+22	3,745350E+22	9,858088E+21	9,858791E+21	7,490575E+22	1,971688E+22	9,462263E+22
2386	3,745254E+22	3,745106E+22	9,858332E+21	9,858603E+21	7,490360E+22	1,971693E+22	9,462053E+22
2387	3,745135E+22	3,745221E+22	9,859023E+21	9,858386E+21	7,490356E+22	1,971741E+22	9,462097E+22
2388	3,745233E+22	3,745208E+22	9,858359E+21	9,859055E+21	7,490440E+22	1,971741E+22	9,462182E+22
2389	3,745236E+22	3,745097E+22	9,858774E+21	9,858150E+21	7,490332E+22	1,971692E+22	9,462025E+22
2390	3,745138E+22	3,745345E+22	9,858637E+21	9,858222E+21	7,490482E+22	1,971686E+22	9,462168E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2391	3,745273E+22	3,745234E+22	9,857701E+21	9,858415E+21	7,490507E+22	1,971612E+22	9,462118E+22
2392	3,745236E+22	3,745227E+22	9,858139E+21	9,857308E+21	7,490462E+22	1,971545E+22	9,462007E+22
2393	3,745283E+22	3,745418E+22	9,857452E+21	9,857688E+21	7,490701E+22	1,971514E+22	9,462215E+22
2394	3,745438E+22	3,745275E+22	9,856906E+21	9,857200E+21	7,490713E+22	1,971411E+22	9,462124E+22
2395	3,745363E+22	3,745416E+22	9,857365E+21	9,856584E+21	7,490779E+22	1,971395E+22	9,462173E+22
2396	3,745421E+22	3,745492E+22	9,856686E+21	9,857418E+21	7,490913E+22	1,971410E+22	9,462323E+22
2397	3,745451E+22	3,745331E+22	9,857025E+21	9,856888E+21	7,490782E+22	1,971391E+22	9,462173E+22
2398	3,745309E+22	3,745489E+22	9,857607E+21	9,857045E+21	7,490799E+22	1,971465E+22	9,462264E+22
2399	3,745407E+22	3,745351E+22	9,857123E+21	9,857952E+21	7,490758E+22	1,971507E+22	9,462265E+22
2400	3,745336E+22	3,745203E+22	9,858150E+21	9,857491E+21	7,490539E+22	1,971564E+22	9,462103E+22
2401	3,745198E+22	3,745344E+22	9,858433E+21	9,858449E+21	7,490542E+22	1,971688E+22	9,462230E+22
2402	3,745240E+22	3,745132E+22	9,858276E+21	9,859035E+21	7,490373E+22	1,971731E+22	9,462104E+22
2403	3,745072E+22	3,745103E+22	9,859414E+21	9,858782E+21	7,490175E+22	1,971820E+22	9,461995E+22
2404	3,745041E+22	3,745142E+22	9,859255E+21	9,859876E+21	7,490184E+22	1,971913E+22	9,462097E+22
2405	3,745115E+22	3,744919E+22	9,859521E+21	9,859561E+21	7,490034E+22	1,971908E+22	9,461942E+22
2406	3,744964E+22	3,745072E+22	9,860170E+21	9,859274E+21	7,490035E+22	1,971944E+22	9,461980E+22
2407	3,745058E+22	3,745050E+22	9,859322E+21	9,860082E+21	7,490108E+22	1,971940E+22	9,462048E+22
2408	3,745047E+22	3,744946E+22	9,859657E+21	9,859155E+21	7,489993E+22	1,971881E+22	9,461874E+22
2409	3,744940E+22	3,745174E+22	9,859555E+21	9,859217E+21	7,490114E+22	1,971877E+22	9,461992E+22
2410	3,745121E+22	3,745072E+22	9,858541E+21	9,859273E+21	7,490192E+22	1,971781E+22	9,461974E+22
2411	3,745115E+22	3,745078E+22	9,858934E+21	9,858138E+21	7,490192E+22	1,971707E+22	9,461900E+22
2412	3,745146E+22	3,745255E+22	9,858396E+21	9,858578E+21	7,490401E+22	1,971697E+22	9,462099E+22
2413	3,745302E+22	3,745135E+22	9,857905E+21	9,858164E+21	7,490436E+22	1,971607E+22	9,462043E+22
2414	3,745176E+22	3,745291E+22	9,858410E+21	9,857595E+21	7,490467E+22	1,971601E+22	9,462068E+22
2415	3,745250E+22	3,745312E+22	9,857681E+21	9,858536E+21	7,490562E+22	1,971622E+22	9,462184E+22
2416	3,745294E+22	3,745130E+22	9,858061E+21	9,857935E+21	7,490424E+22	1,971600E+22	9,462024E+22
2417	3,745137E+22	3,745284E+22	9,858733E+21	9,858107E+21	7,490422E+22	1,971684E+22	9,462106E+22
2418	3,745230E+22	3,745173E+22	9,858204E+21	9,859011E+21	7,490403E+22	1,971722E+22	9,462125E+22
2419	3,745138E+22	3,745044E+22	9,859204E+21	9,858656E+21	7,490182E+22	1,971786E+22	9,461968E+22
2420	3,744967E+22	3,745149E+22	9,859638E+21	9,859688E+21	7,490116E+22	1,971933E+22	9,462049E+22
2421	3,745043E+22	3,744934E+22	9,859540E+21	9,860218E+21	7,489977E+22	1,971976E+22	9,461953E+22
2422	3,744883E+22	3,744919E+22	9,860650E+21	9,859842E+21	7,489802E+22	1,972049E+22	9,461851E+22
2423	3,744889E+22	3,744938E+22	9,860358E+21	9,860971E+21	7,489826E+22	1,972133E+22	9,461959E+22
2424	3,744963E+22	3,744745E+22	9,860554E+21	9,860594E+21	7,489708E+22	1,972115E+22	9,461823E+22
2425	3,744772E+22	3,744915E+22	9,861173E+21	9,860353E+21	7,489687E+22	1,972153E+22	9,461840E+22
2426	3,744862E+22	3,744911E+22	9,860226E+21	9,861102E+21	7,489773E+22	1,972133E+22	9,461905E+22
2427	3,744876E+22	3,744795E+22	9,860506E+21	9,860125E+21	7,489671E+22	1,972063E+22	9,461734E+22
2428	3,744782E+22	3,744977E+22	9,860534E+21	9,860121E+21	7,489759E+22	1,972065E+22	9,461825E+22
2429	3,745005E+22	3,744902E+22	9,859528E+21	9,860109E+21	7,489907E+22	1,971964E+22	9,461871E+22
2430	3,744976E+22	3,744944E+22	9,859867E+21	9,858967E+21	7,489919E+22	1,971883E+22	9,461803E+22
2431	3,744995E+22	3,745102E+22	9,859255E+21	9,859583E+21	7,490096E+22	1,971884E+22	9,461980E+22
2432	3,745136E+22	3,744991E+22	9,858781E+21	9,859154E+21	7,490127E+22	1,971793E+22	9,461920E+22
2433	3,744993E+22	3,745120E+22	9,859408E+21	9,858599E+21	7,490113E+22	1,971801E+22	9,461914E+22
2434	3,745085E+22	3,745145E+22	9,858696E+21	9,859460E+21	7,490230E+22	1,971816E+22	9,462046E+22
2435	3,745139E+22	3,744967E+22	9,859085E+21	9,858925E+21	7,490106E+22	1,971801E+22	9,461907E+22
2436	3,744946E+22	3,745089E+22	9,859939E+21	9,859230E+21	7,490035E+22	1,971917E+22	9,461952E+22
2437	3,745032E+22	3,744999E+22	9,859437E+21	9,860234E+21	7,490031E+22	1,971967E+22	9,461998E+22
2438	3,744912E+22	3,744872E+22	9,860416E+21	9,859908E+21	7,489784E+22	1,972032E+22	9,461816E+22
2439	3,744779E+22	3,744922E+22	9,860789E+21	9,860985E+21	7,489700E+22	1,972177E+22	9,461878E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2440	3,744889E+22	3,744718E+22	9,860660E+21	9,861355E+21	7,489606E+22	1,972202E+22	9,461808E+22
2441	3,744721E+22	3,744723E+22	9,861776E+21	9,860925E+21	7,489444E+22	1,972270E+22	9,461714E+22
2442	3,744719E+22	3,744785E+22	9,861391E+21	9,861971E+21	7,489504E+22	1,972336E+22	9,461841E+22
2443	3,744772E+22	3,744616E+22	9,861505E+21	9,861623E+21	7,489388E+22	1,972313E+22	9,461701E+22
2444	3,744555E+22	3,744745E+22	9,862243E+21	9,861398E+21	7,489301E+22	1,972364E+22	9,461665E+22
2445	3,744682E+22	3,744736E+22	9,861293E+21	9,862042E+21	7,489418E+22	1,972333E+22	9,461752E+22
2446	3,744713E+22	3,744629E+22	9,861504E+21	9,860977E+21	7,489343E+22	1,972248E+22	9,461591E+22
2447	3,744665E+22	3,744783E+22	9,861400E+21	9,861040E+21	7,489448E+22	1,972244E+22	9,461692E+22
2448	3,744886E+22	3,744742E+22	9,860353E+21	9,861009E+21	7,489628E+22	1,972136E+22	9,461764E+22
2449	3,744820E+22	3,744807E+22	9,860702E+21	9,859947E+21	7,489627E+22	1,972065E+22	9,461692E+22
2450	3,744831E+22	3,744975E+22	9,860088E+21	9,860516E+21	7,489806E+22	1,972060E+22	9,461866E+22
2451	3,744979E+22	3,744850E+22	9,859672E+21	9,860070E+21	7,489829E+22	1,971974E+22	9,461803E+22
2452	3,744826E+22	3,744929E+22	9,860532E+21	9,859547E+21	7,489756E+22	1,972008E+22	9,461763E+22
2453	3,744920E+22	3,744971E+22	9,859895E+21	9,860430E+21	7,489891E+22	1,972033E+22	9,461923E+22
2454	3,744938E+22	3,744808E+22	9,860279E+21	9,860029E+21	7,489747E+22	1,972031E+22	9,461778E+22
2455	3,744741E+22	3,744882E+22	9,861055E+21	9,860553E+21	7,489624E+22	1,972161E+22	9,461785E+22
2456	3,744830E+22	3,744793E+22	9,860556E+21	9,861530E+21	7,489623E+22	1,972209E+22	9,461832E+22
2457	3,744719E+22	3,744657E+22	9,861549E+21	9,861147E+21	7,489377E+22	1,972270E+22	9,461646E+22
2458	3,744618E+22	3,744728E+22	9,861868E+21	9,862063E+21	7,489347E+22	1,972393E+22	9,461740E+22
2459	3,744741E+22	3,744555E+22	9,861717E+21	9,862382E+21	7,489296E+22	1,972410E+22	9,461706E+22
2460	3,744536E+22	3,744545E+22	9,862976E+21	9,862009E+21	7,489081E+22	1,972499E+22	9,461579E+22
2461	3,744516E+22	3,744640E+22	9,862578E+21	9,863042E+21	7,489156E+22	1,972562E+22	9,461718E+22
2462	3,744555E+22	3,744465E+22	9,862613E+21	9,862685E+21	7,489020E+22	1,972530E+22	9,461550E+22
2463	3,744381E+22	3,744522E+22	9,863237E+21	9,862475E+21	7,488903E+22	1,972571E+22	9,461474E+22
2464	3,744549E+22	3,744533E+22	9,862208E+21	9,862956E+21	7,489083E+22	1,972516E+22	9,461599E+22
2465	3,744582E+22	3,744454E+22	9,862352E+21	9,861865E+21	7,489037E+22	1,972422E+22	9,461458E+22
2466	3,744532E+22	3,744654E+22	9,862168E+21	9,861886E+21	7,489186E+22	1,972405E+22	9,461591E+22
2467	3,744734E+22	3,744641E+22	9,861110E+21	9,861871E+21	7,489375E+22	1,972298E+22	9,461673E+22
2468	3,744637E+22	3,744663E+22	9,861678E+21	9,860866E+21	7,489300E+22	1,972254E+22	9,461555E+22
2469	3,744661E+22	3,744830E+22	9,861168E+21	9,861360E+21	7,489491E+22	1,972253E+22	9,461744E+22
2470	3,744807E+22	3,744698E+22	9,860775E+21	9,860975E+21	7,489505E+22	1,972175E+22	9,461680E+22
2471	3,744670E+22	3,744720E+22	9,861610E+21	9,860656E+21	7,489390E+22	1,972227E+22	9,461617E+22
2472	3,744751E+22	3,744780E+22	9,860960E+21	9,861609E+21	7,489531E+22	1,972257E+22	9,461788E+22
2473	3,744737E+22	3,744624E+22	9,861327E+21	9,861332E+21	7,489361E+22	1,972266E+22	9,461627E+22
2474	3,744558E+22	3,744693E+22	9,862060E+21	9,861784E+21	7,489251E+22	1,972384E+22	9,461635E+22
2475	3,744672E+22	3,744603E+22	9,861596E+21	9,862640E+21	7,489275E+22	1,972424E+22	9,461698E+22
2476	3,744559E+22	3,744452E+22	9,862770E+21	9,862215E+21	7,489011E+22	1,972499E+22	9,461510E+22
2477	3,744452E+22	3,744564E+22	9,863131E+21	9,863051E+21	7,489016E+22	1,972618E+22	9,461634E+22
2478	3,744528E+22	3,744416E+22	9,862966E+21	9,863454E+21	7,488944E+22	1,972642E+22	9,461586E+22
2479	3,744316E+22	3,744355E+22	9,864114E+21	9,863230E+21	7,488671E+22	1,972734E+22	9,461405E+22
2480	3,744304E+22	3,744440E+22	9,863665E+21	9,864165E+21	7,488744E+22	1,972783E+22	9,461527E+22
2481	3,744364E+22	3,744261E+22	9,863624E+21	9,863746E+21	7,488624E+22	1,972737E+22	9,461361E+22
2482	3,744245E+22	3,744334E+22	9,864079E+21	9,863387E+21	7,488579E+22	1,972747E+22	9,461325E+22
2483	3,744433E+22	3,744385E+22	9,862998E+21	9,863797E+21	7,488818E+22	1,972679E+22	9,461497E+22
2484	3,744437E+22	3,744315E+22	9,863250E+21	9,862771E+21	7,488752E+22	1,972602E+22	9,461354E+22
2485	3,744369E+22	3,744548E+22	9,863097E+21	9,862760E+21	7,488916E+22	1,972586E+22	9,461502E+22
2486	3,744553E+22	3,744525E+22	9,862097E+21	9,862768E+21	7,489078E+22	1,972486E+22	9,461565E+22
2487	3,744485E+22	3,744465E+22	9,862665E+21	9,861860E+21	7,488950E+22	1,972453E+22	9,461402E+22
2488	3,744520E+22	3,744636E+22	9,862180E+21	9,862294E+21	7,489156E+22	1,972447E+22	9,461604E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2489	3,744645E+22	3,744517E+22	9,861777E+21	9,862027E+21	7,489162E+22	1,972380E+22	9,461542E+22
2490	3,744502E+22	3,744550E+22	9,862528E+21	9,861768E+21	7,489052E+22	1,972430E+22	9,461482E+22
2491	3,744573E+22	3,744623E+22	9,861897E+21	9,862735E+21	7,489196E+22	1,972463E+22	9,461659E+22
2492	3,744544E+22	3,744430E+22	9,862460E+21	9,862483E+21	7,488974E+22	1,972494E+22	9,461468E+22
2493	3,744383E+22	3,744518E+22	9,863272E+21	9,862800E+21	7,488901E+22	1,972607E+22	9,461508E+22
2494	3,744497E+22	3,744440E+22	9,862851E+21	9,863663E+21	7,488937E+22	1,972651E+22	9,461589E+22
2495	3,744383E+22	3,744242E+22	9,864013E+21	9,863406E+21	7,488624E+22	1,972742E+22	9,461366E+22
2496	3,744252E+22	3,744382E+22	9,864346E+21	9,864241E+21	7,488634E+22	1,972859E+22	9,461493E+22
2497	3,744296E+22	3,744236E+22	9,864103E+21	9,864726E+21	7,488533E+22	1,972883E+22	9,461415E+22
2498	3,744116E+22	3,744153E+22	9,865108E+21	9,864401E+21	7,488270E+22	1,972951E+22	9,461221E+22
2499	3,744147E+22	3,744244E+22	9,864585E+21	9,865140E+21	7,488391E+22	1,972972E+22	9,461363E+22
2500	3,744218E+22	3,744065E+22	9,864609E+21	9,864667E+21	7,488283E+22	1,972928E+22	9,461211E+22
2501	3,744109E+22	3,744197E+22	9,865030E+21	9,864202E+21	7,488306E+22	1,972923E+22	9,461230E+22
2502	3,744269E+22	3,744281E+22	9,863949E+21	9,864670E+21	7,488550E+22	1,972862E+22	9,461412E+22
2503	3,744266E+22	3,744163E+22	9,864164E+21	9,863775E+21	7,488430E+22	1,972794E+22	9,461224E+22
2504	3,744205E+22	3,744388E+22	9,864042E+21	9,863654E+21	7,488594E+22	1,972770E+22	9,461363E+22
2505	3,744388E+22	3,744357E+22	9,863044E+21	9,863670E+21	7,488745E+22	1,972671E+22	9,461417E+22
2506	3,744353E+22	3,744289E+22	9,863523E+21	9,862769E+21	7,488642E+22	1,972629E+22	9,461271E+22
2507	3,744384E+22	3,744476E+22	9,863060E+21	9,863215E+21	7,488861E+22	1,972628E+22	9,461488E+22
2508	3,744470E+22	3,744357E+22	9,862798E+21	9,863126E+21	7,488827E+22	1,972592E+22	9,461419E+22
2509	3,744318E+22	3,744407E+22	9,863568E+21	9,862851E+21	7,488725E+22	1,972642E+22	9,461367E+22
2510	3,744381E+22	3,744460E+22	9,863058E+21	9,863838E+21	7,488841E+22	1,972690E+22	9,461531E+22
2511	3,744378E+22	3,744208E+22	9,863633E+21	9,863640E+21	7,488586E+22	1,972727E+22	9,461313E+22
2512	3,744223E+22	3,744312E+22	9,864484E+21	9,863874E+21	7,488535E+22	1,972836E+22	9,461371E+22
2513	3,744298E+22	3,744259E+22	9,864081E+21	9,864838E+21	7,488557E+22	1,972892E+22	9,461449E+22
2514	3,744174E+22	3,744066E+22	9,865110E+21	9,864649E+21	7,488240E+22	1,972976E+22	9,461216E+22
2515	3,744034E+22	3,744206E+22	9,865401E+21	9,865410E+21	7,488240E+22	1,973081E+22	9,461322E+22
2516	3,744081E+22	3,744029E+22	9,865249E+21	9,865880E+21	7,488110E+22	1,973113E+22	9,461223E+22
2517	3,743942E+22	3,743968E+22	9,866176E+21	9,865359E+21	7,487910E+22	1,973153E+22	9,461063E+22
2518	3,743997E+22	3,744078E+22	9,865645E+21	9,866058E+21	7,488076E+22	1,973170E+22	9,461246E+22
2519	3,744080E+22	3,743882E+22	9,865587E+21	9,865683E+21	7,487962E+22	1,973127E+22	9,461089E+22
2520	3,743961E+22	3,744056E+22	9,865958E+21	9,865171E+21	7,488017E+22	1,973113E+22	9,461130E+22
2521	3,744092E+22	3,744149E+22	9,864865E+21	9,865661E+21	7,488240E+22	1,973053E+22	9,461293E+22
2522	3,744116E+22	3,744003E+22	9,864982E+21	9,864701E+21	7,488119E+22	1,972968E+22	9,461088E+22
2523	3,744077E+22	3,744228E+22	9,864867E+21	9,864423E+21	7,488305E+22	1,972929E+22	9,461234E+22
2524	3,744243E+22	3,744188E+22	9,864000E+21	9,864517E+21	7,488431E+22	1,972852E+22	9,461283E+22
2525	3,744192E+22	3,744156E+22	9,864492E+21	9,863642E+21	7,488349E+22	1,972813E+22	9,461162E+22
2526	3,744198E+22	3,744350E+22	9,864089E+21	9,864231E+21	7,488548E+22	1,972832E+22	9,461380E+22
2527	3,744274E+22	3,744166E+22	9,863849E+21	9,864313E+21	7,488440E+22	1,972816E+22	9,461256E+22
2528	3,744142E+22	3,744213E+22	9,864668E+21	9,863945E+21	7,488355E+22	1,972861E+22	9,461216E+22
2529	3,744205E+22	3,744267E+22	9,864204E+21	9,864930E+21	7,488472E+22	1,972913E+22	9,461386E+22
2530	3,744224E+22	3,744013E+22	9,864705E+21	9,864762E+21	7,488237E+22	1,972947E+22	9,461184E+22
2531	3,744055E+22	3,744140E+22	9,865572E+21	9,864963E+21	7,488195E+22	1,973054E+22	9,461249E+22
2532	3,744079E+22	3,744086E+22	9,865281E+21	9,866078E+21	7,488164E+22	1,973136E+22	9,461300E+22
2533	3,743950E+22	3,743902E+22	9,866285E+21	9,865829E+21	7,487852E+22	1,973211E+22	9,461064E+22
2534	3,743832E+22	3,744014E+22	9,866599E+21	9,866539E+21	7,487846E+22	1,973314E+22	9,461160E+22
2535	3,743914E+22	3,743792E+22	9,866377E+21	9,867002E+21	7,487705E+22	1,973338E+22	9,461043E+22
2536	3,743805E+22	3,743769E+22	9,867215E+21	9,866346E+21	7,487575E+22	1,973356E+22	9,460931E+22
2537	3,743834E+22	3,743922E+22	9,866658E+21	9,867063E+21	7,487756E+22	1,973372E+22	9,461129E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2538	3,743919E+22	3,743746E+22	9,866427E+21	9,866692E+21	7,487665E+22	1,973312E+22	9,460977E+22
2539	3,743799E+22	3,743922E+22	9,866785E+21	9,866029E+21	7,487721E+22	1,973281E+22	9,461002E+22
2540	3,743917E+22	3,743996E+22	9,865830E+21	9,866509E+21	7,487912E+22	1,973234E+22	9,461146E+22
2541	3,743962E+22	3,743866E+22	9,865904E+21	9,865449E+21	7,487828E+22	1,973135E+22	9,460964E+22
2542	3,743925E+22	3,744080E+22	9,865858E+21	9,865263E+21	7,488005E+22	1,973112E+22	9,461117E+22
2543	3,744078E+22	3,744010E+22	9,864986E+21	9,865569E+21	7,488089E+22	1,973055E+22	9,461144E+22
2544	3,744026E+22	3,743994E+22	9,865440E+21	9,864743E+21	7,488020E+22	1,973018E+22	9,461038E+22
2545	3,744011E+22	3,744178E+22	9,865109E+21	9,865384E+21	7,488189E+22	1,973049E+22	9,461239E+22
2546	3,744125E+22	3,743970E+22	9,864784E+21	9,865424E+21	7,488095E+22	1,973021E+22	9,461116E+22
2547	3,744011E+22	3,744024E+22	9,865639E+21	9,864892E+21	7,488035E+22	1,973053E+22	9,461089E+22
2548	3,744040E+22	3,744088E+22	9,865362E+21	9,865962E+21	7,488128E+22	1,973132E+22	9,461260E+22
2549	3,744027E+22	3,743873E+22	9,865882E+21	9,865830E+21	7,487900E+22	1,973171E+22	9,461071E+22
2550	3,743829E+22	3,743989E+22	9,866825E+21	9,866159E+21	7,487818E+22	1,973298E+22	9,461117E+22
2551	3,743844E+22	3,743870E+22	9,866538E+21	9,867375E+21	7,487714E+22	1,973391E+22	9,461105E+22
2552	3,743755E+22	3,743680E+22	9,867485E+21	9,867000E+21	7,487434E+22	1,973448E+22	9,460883E+22
2553	3,743655E+22	3,743799E+22	9,867759E+21	9,867641E+21	7,487454E+22	1,973540E+22	9,460994E+22
2554	3,743774E+22	3,743593E+22	9,867352E+21	9,868084E+21	7,487368E+22	1,973544E+22	9,460911E+22
2555	3,743669E+22	3,743621E+22	9,868103E+21	9,867311E+21	7,487290E+22	1,973541E+22	9,460831E+22
2556	3,743657E+22	3,743789E+22	9,867627E+21	9,868083E+21	7,487446E+22	1,973571E+22	9,461017E+22
2557	3,743732E+22	3,743631E+22	9,867375E+21	9,867584E+21	7,487363E+22	1,973496E+22	9,460858E+22
2558	3,743635E+22	3,743777E+22	9,867774E+21	9,866861E+21	7,487412E+22	1,973463E+22	9,460875E+22
2559	3,743759E+22	3,743799E+22	9,866811E+21	9,867380E+21	7,487558E+22	1,973419E+22	9,460977E+22
2560	3,743820E+22	3,743693E+22	9,866849E+21	9,866332E+21	7,487513E+22	1,973318E+22	9,460832E+22
2561	3,743756E+22	3,743922E+22	9,866809E+21	9,866264E+21	7,487679E+22	1,973307E+22	9,460986E+22
2562	3,743915E+22	3,743848E+22	9,865802E+21	9,866671E+21	7,487763E+22	1,973247E+22	9,461011E+22
2563	3,743876E+22	3,743833E+22	9,866255E+21	9,865712E+21	7,487709E+22	1,973197E+22	9,460906E+22
2564	3,743853E+22	3,744002E+22	9,866111E+21	9,866351E+21	7,487854E+22	1,973246E+22	9,461101E+22
2565	3,743972E+22	3,743825E+22	9,865831E+21	9,866307E+21	7,487796E+22	1,973214E+22	9,461010E+22
2566	3,743853E+22	3,743871E+22	9,866827E+21	9,865893E+21	7,487723E+22	1,973272E+22	9,460995E+22
2567	3,743835E+22	3,743904E+22	9,866619E+21	9,867170E+21	7,487739E+22	1,973379E+22	9,461118E+22
2568	3,743811E+22	3,743694E+22	9,867121E+21	9,867126E+21	7,487505E+22	1,973425E+22	9,460930E+22
2569	3,743600E+22	3,743778E+22	9,868095E+21	9,867476E+21	7,487378E+22	1,973557E+22	9,460935E+22
2570	3,743664E+22	3,743633E+22	9,867633E+21	9,868629E+21	7,487298E+22	1,973626E+22	9,460924E+22
2571	3,743614E+22	3,743463E+22	9,868472E+21	9,868036E+21	7,487077E+22	1,973651E+22	9,460727E+22
2572	3,743494E+22	3,743615E+22	9,868839E+21	9,868698E+21	7,487108E+22	1,973754E+22	9,460862E+22
2573	3,743594E+22	3,743475E+22	9,868360E+21	9,869055E+21	7,487069E+22	1,973741E+22	9,460811E+22
2574	3,743477E+22	3,743496E+22	9,869146E+21	9,868313E+21	7,486973E+22	1,973746E+22	9,460719E+22
2575	3,743454E+22	3,743615E+22	9,868704E+21	9,869077E+21	7,487068E+22	1,973778E+22	9,460846E+22
2576	3,743566E+22	3,743455E+22	9,868382E+21	9,868470E+21	7,487021E+22	1,973685E+22	9,460706E+22
2577	3,743476E+22	3,743594E+22	9,868766E+21	9,867742E+21	7,487070E+22	1,973651E+22	9,460720E+22
2578	3,743626E+22	3,743619E+22	9,867625E+21	9,868332E+21	7,487245E+22	1,973596E+22	9,460840E+22
2579	3,743689E+22	3,743545E+22	9,867577E+21	9,867254E+21	7,487234E+22	1,973483E+22	9,460717E+22
2580	3,743595E+22	3,743777E+22	9,867664E+21	9,867297E+21	7,487372E+22	1,973496E+22	9,460869E+22
2581	3,743754E+22	3,743719E+22	9,866699E+21	9,867588E+21	7,487473E+22	1,973429E+22	9,460902E+22
2582	3,743740E+22	3,743679E+22	9,867268E+21	9,866609E+21	7,487419E+22	1,973388E+22	9,460807E+22
2583	3,743698E+22	3,743813E+22	9,867240E+21	9,867304E+21	7,487511E+22	1,973454E+22	9,460965E+22
2584	3,743805E+22	3,743660E+22	9,867011E+21	9,867345E+21	7,487465E+22	1,973436E+22	9,460900E+22
2585	3,743637E+22	3,743704E+22	9,868080E+21	9,867100E+21	7,487341E+22	1,973518E+22	9,460859E+22
2586	3,743615E+22	3,743707E+22	9,867749E+21	9,868494E+21	7,487322E+22	1,973624E+22	9,460946E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2587	3,743614E+22	3,743487E+22	9,868201E+21	9,868328E+21	7,487101E+22	1,973653E+22	9,460754E+22
2588	3,743414E+22	3,743555E+22	9,869230E+21	9,868654E+21	7,486969E+22	1,973788E+22	9,460757E+22
2589	3,743494E+22	3,743450E+22	9,868729E+21	9,869656E+21	7,486943E+22	1,973838E+22	9,460782E+22
2590	3,743461E+22	3,743300E+22	9,869580E+21	9,869082E+21	7,486761E+22	1,973866E+22	9,460627E+22
2591	3,743304E+22	3,743444E+22	9,869966E+21	9,869819E+21	7,486748E+22	1,973979E+22	9,460726E+22
2592	3,743403E+22	3,743326E+22	9,869463E+21	9,870145E+21	7,486729E+22	1,973961E+22	9,460690E+22
2593	3,743284E+22	3,743323E+22	9,870252E+21	9,869341E+21	7,486607E+22	1,973959E+22	9,460566E+22
2594	3,743300E+22	3,743413E+22	9,869619E+21	9,870020E+21	7,486713E+22	1,973964E+22	9,460677E+22
2595	3,743441E+22	3,743276E+22	9,869178E+21	9,869267E+21	7,486717E+22	1,973844E+22	9,460562E+22
2596	3,743329E+22	3,743431E+22	9,869617E+21	9,868648E+21	7,486760E+22	1,973827E+22	9,460586E+22
2597	3,743459E+22	3,743508E+22	9,868447E+21	9,869210E+21	7,486967E+22	1,973766E+22	9,460732E+22
2598	3,743530E+22	3,743424E+22	9,868455E+21	9,868194E+21	7,486954E+22	1,973665E+22	9,460619E+22
2599	3,743424E+22	3,743609E+22	9,868660E+21	9,868249E+21	7,487033E+22	1,973691E+22	9,460724E+22
2600	3,743611E+22	3,743556E+22	9,867743E+21	9,868482E+21	7,487168E+22	1,973622E+22	9,460790E+22
2601	3,743584E+22	3,743507E+22	9,868409E+21	9,867583E+21	7,487091E+22	1,973599E+22	9,460690E+22
2602	3,743537E+22	3,743633E+22	9,868295E+21	9,868416E+21	7,487170E+22	1,973671E+22	9,460841E+22
2603	3,743626E+22	3,743494E+22	9,868017E+21	9,868511E+21	7,487120E+22	1,973653E+22	9,460773E+22
2604	3,743421E+22	3,743513E+22	9,869206E+21	9,868415E+21	7,486935E+22	1,973762E+22	9,460697E+22
2605	3,743408E+22	3,743520E+22	9,868862E+21	9,869651E+21	7,486929E+22	1,973851E+22	9,460780E+22
2606	3,743449E+22	3,743277E+22	9,869337E+21	9,869434E+21	7,486726E+22	1,973877E+22	9,460603E+22
2607	3,743243E+22	3,743333E+22	9,870418E+21	9,869753E+21	7,486575E+22	1,974017E+22	9,460593E+22
2608	3,743325E+22	3,743275E+22	9,869917E+21	9,870748E+21	7,486601E+22	1,974067E+22	9,460667E+22
2609	3,743255E+22	3,743144E+22	9,870782E+21	9,870233E+21	7,486399E+22	1,974102E+22	9,460501E+22
2610	3,743106E+22	3,743268E+22	9,871007E+21	9,870956E+21	7,486374E+22	1,974196E+22	9,460571E+22
2611	3,743229E+22	3,743150E+22	9,870413E+21	9,871094E+21	7,486379E+22	1,974151E+22	9,460529E+22
2612	3,743115E+22	3,743137E+22	9,871218E+21	9,870280E+21	7,486253E+22	1,974150E+22	9,460402E+22
2613	3,743143E+22	3,743262E+22	9,870511E+21	9,870819E+21	7,486405E+22	1,974133E+22	9,460538E+22
2614	3,743302E+22	3,743139E+22	9,870062E+21	9,870159E+21	7,486440E+22	1,974022E+22	9,460463E+22
2615	3,743161E+22	3,743280E+22	9,870520E+21	9,869654E+21	7,486441E+22	1,974017E+22	9,460459E+22
2616	3,743300E+22	3,743368E+22	9,869396E+21	9,870202E+21	7,486669E+22	1,973960E+22	9,460628E+22
2617	3,743376E+22	3,743264E+22	9,869462E+21	9,869146E+21	7,486641E+22	1,973861E+22	9,460501E+22
2618	3,743301E+22	3,743418E+22	9,869560E+21	9,869163E+21	7,486720E+22	1,973872E+22	9,460592E+22
2619	3,743488E+22	3,743393E+22	9,868641E+21	9,869338E+21	7,486881E+22	1,973798E+22	9,460679E+22
2620	3,743413E+22	3,743348E+22	9,869420E+21	9,868651E+21	7,486761E+22	1,973807E+22	9,460569E+22
2621	3,743322E+22	3,743494E+22	9,869336E+21	9,869490E+21	7,486816E+22	1,973883E+22	9,460699E+22
2622	3,743421E+22	3,743328E+22	9,869134E+21	9,869681E+21	7,486749E+22	1,973881E+22	9,460630E+22
2623	3,743214E+22	3,743290E+22	9,870398E+21	9,869588E+21	7,486504E+22	1,973999E+22	9,460502E+22
2624	3,743238E+22	3,743307E+22	9,870084E+21	9,870748E+21	7,486545E+22	1,974083E+22	9,460628E+22
2625	3,743279E+22	3,743077E+22	9,870583E+21	9,870552E+21	7,486356E+22	1,974113E+22	9,460469E+22
2626	3,743077E+22	3,743139E+22	9,871506E+21	9,870946E+21	7,486216E+22	1,974245E+22	9,460461E+22
2627	3,743146E+22	3,743119E+22	9,870952E+21	9,871897E+21	7,486265E+22	1,974285E+22	9,460550E+22
2628	3,743049E+22	3,742975E+22	9,871875E+21	9,871444E+21	7,486024E+22	1,974332E+22	9,460356E+22
2629	3,742910E+22	3,743104E+22	9,872051E+21	9,871917E+21	7,486015E+22	1,974397E+22	9,460411E+22
2630	3,743076E+22	3,742974E+22	9,871418E+21	9,871992E+21	7,486050E+22	1,974341E+22	9,460391E+22
2631	3,742948E+22	3,742947E+22	9,872221E+21	9,871204E+21	7,485896E+22	1,974342E+22	9,460238E+22
2632	3,742984E+22	3,743111E+22	9,871493E+21	9,871757E+21	7,486095E+22	1,974325E+22	9,460420E+22
2633	3,743122E+22	3,742999E+22	9,871041E+21	9,871170E+21	7,486120E+22	1,974221E+22	9,460342E+22
2634	3,743008E+22	3,743115E+22	9,871344E+21	9,870669E+21	7,486124E+22	1,974201E+22	9,460325E+22
2635	3,743177E+22	3,743208E+22	9,870197E+21	9,871038E+21	7,486384E+22	1,974124E+22	9,460508E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2636	3,743241E+22	3,743099E+22	9,870348E+21	9,870034E+21	7,486340E+22	1,974038E+22	9,460378E+22
2637	3,743155E+22	3,743283E+22	9,870467E+21	9,869947E+21	7,486439E+22	1,974041E+22	9,460480E+22
2638	3,743330E+22	3,743259E+22	9,869625E+21	9,870294E+21	7,486589E+22	1,973992E+22	9,460581E+22
2639	3,743202E+22	3,743183E+22	9,870523E+21	9,869810E+21	7,486385E+22	1,974033E+22	9,460418E+22
2640	3,743121E+22	3,743314E+22	9,870525E+21	9,870663E+21	7,486434E+22	1,974119E+22	9,460553E+22
2641	3,743227E+22	3,743119E+22	9,870379E+21	9,870850E+21	7,486346E+22	1,974123E+22	9,460469E+22
2642	3,743062E+22	3,743055E+22	9,871467E+21	9,870742E+21	7,486117E+22	1,974221E+22	9,460338E+22
2643	3,743093E+22	3,743109E+22	9,871140E+21	9,871826E+21	7,486202E+22	1,974297E+22	9,460498E+22
2644	3,743088E+22	3,742909E+22	9,871701E+21	9,871778E+21	7,485998E+22	1,974348E+22	9,460345E+22
2645	3,742861E+22	3,743000E+22	9,872603E+21	9,872059E+21	7,485861E+22	1,974466E+22	9,460327E+22
2646	3,742945E+22	3,742963E+22	9,872096E+21	9,872994E+21	7,485908E+22	1,974509E+22	9,460417E+22
2647	3,742841E+22	3,742778E+22	9,873044E+21	9,872505E+21	7,485620E+22	1,974555E+22	9,460174E+22
2648	3,742738E+22	3,742913E+22	9,873192E+21	9,872867E+21	7,485651E+22	1,974606E+22	9,460257E+22
2649	3,742908E+22	3,742797E+22	9,872518E+21	9,872972E+21	7,485704E+22	1,974549E+22	9,460253E+22
2650	3,742802E+22	3,742765E+22	9,873064E+21	9,872263E+21	7,485566E+22	1,974533E+22	9,460099E+22
2651	3,742841E+22	3,742962E+22	9,872284E+21	9,872748E+21	7,485803E+22	1,974503E+22	9,460306E+22
2652	3,742968E+22	3,742850E+22	9,871859E+21	9,872175E+21	7,485818E+22	1,974403E+22	9,460221E+22
2653	3,742872E+22	3,742971E+22	9,872145E+21	9,871416E+21	7,485842E+22	1,974356E+22	9,460198E+22
2654	3,743063E+22	3,743067E+22	9,871073E+21	9,871749E+21	7,486130E+22	1,974282E+22	9,460412E+22
2655	3,743081E+22	3,742947E+22	9,871336E+21	9,870888E+21	7,486028E+22	1,974222E+22	9,460251E+22
2656	3,742971E+22	3,743146E+22	9,871561E+21	9,870911E+21	7,486117E+22	1,974247E+22	9,460364E+22
2657	3,743110E+22	3,743108E+22	9,870798E+21	9,871417E+21	7,486218E+22	1,974222E+22	9,460440E+22
2658	3,743008E+22	3,742974E+22	9,871560E+21	9,871023E+21	7,485982E+22	1,974258E+22	9,460240E+22
2659	3,742961E+22	3,743099E+22	9,871565E+21	9,871761E+21	7,486061E+22	1,974333E+22	9,460393E+22
2660	3,743063E+22	3,742911E+22	9,871457E+21	9,872029E+21	7,485974E+22	1,974349E+22	9,460322E+22
2661	3,742898E+22	3,742884E+22	9,872518E+21	9,871808E+21	7,485782E+22	1,974433E+22	9,460214E+22
2662	3,742923E+22	3,742959E+22	9,872257E+21	9,872977E+21	7,485882E+22	1,974523E+22	9,460406E+22
2663	3,742864E+22	3,742744E+22	9,872920E+21	9,873038E+21	7,485609E+22	1,974596E+22	9,460205E+22
2664	3,742653E+22	3,742822E+22	9,873882E+21	9,873215E+21	7,485475E+22	1,974710E+22	9,460185E+22
2665	3,742746E+22	3,742760E+22	9,873382E+21	9,874067E+21	7,485506E+22	1,974745E+22	9,460251E+22
2666	3,742683E+22	3,742553E+22	9,874073E+21	9,873565E+21	7,485236E+22	1,974764E+22	9,460000E+22
2667	3,742596E+22	3,742721E+22	9,874113E+21	9,873837E+21	7,485317E+22	1,974795E+22	9,460112E+22
2668	3,742729E+22	3,742636E+22	9,873411E+21	9,874060E+21	7,485365E+22	1,974747E+22	9,460112E+22
2669	3,742629E+22	3,742637E+22	9,873851E+21	9,873175E+21	7,485266E+22	1,974703E+22	9,459968E+22
2670	3,742702E+22	3,742825E+22	9,873125E+21	9,873574E+21	7,485527E+22	1,974670E+22	9,460197E+22
2671	3,742813E+22	3,742698E+22	9,872793E+21	9,872967E+21	7,485511E+22	1,974576E+22	9,460087E+22
2672	3,742738E+22	3,742828E+22	9,873148E+21	9,872147E+21	7,485566E+22	1,974530E+22	9,460095E+22
2673	3,742898E+22	3,742928E+22	9,872161E+21	9,872601E+21	7,485827E+22	1,974476E+22	9,460303E+22
2674	3,742909E+22	3,742784E+22	9,872267E+21	9,871986E+21	7,485693E+22	1,974425E+22	9,460119E+22
2675	3,742794E+22	3,742975E+22	9,872513E+21	9,872056E+21	7,485770E+22	1,974457E+22	9,460226E+22
2676	3,742919E+22	3,742916E+22	9,871820E+21	9,872654E+21	7,485835E+22	1,974447E+22	9,460282E+22
2677	3,742852E+22	3,742779E+22	9,872511E+21	9,872046E+21	7,485631E+22	1,974456E+22	9,460087E+22
2678	3,742835E+22	3,742913E+22	9,872588E+21	9,872752E+21	7,485747E+22	1,974534E+22	9,460281E+22
2679	3,742885E+22	3,742737E+22	9,872604E+21	9,873134E+21	7,485622E+22	1,974574E+22	9,460196E+22
2680	3,742701E+22	3,742732E+22	9,873773E+21	9,872951E+21	7,485433E+22	1,974672E+22	9,460105E+22
2681	3,742692E+22	3,742802E+22	9,873614E+21	9,874175E+21	7,485494E+22	1,974779E+22	9,460273E+22
2682	3,742659E+22	3,742531E+22	9,874104E+21	9,874271E+21	7,485190E+22	1,974838E+22	9,460027E+22
2683	3,742478E+22	3,742601E+22	9,875008E+21	9,874298E+21	7,485079E+22	1,974931E+22	9,460009E+22
2684	3,742565E+22	3,742553E+22	9,874445E+21	9,875174E+21	7,485118E+22	1,974962E+22	9,460080E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2685	3,742516E+22	3,742377E+22	9,874974E+21	9,874538E+21	7,484893E+22	1,974951E+22	9,459844E+22
2686	3,742444E+22	3,742575E+22	9,875000E+21	9,874828E+21	7,485018E+22	1,974983E+22	9,460001E+22
2687	3,742543E+22	3,742493E+22	9,874359E+21	9,875090E+21	7,485036E+22	1,974945E+22	9,459981E+22
2688	3,742475E+22	3,742491E+22	9,874850E+21	9,874051E+21	7,484966E+22	1,974890E+22	9,459856E+22
2689	3,742556E+22	3,742673E+22	9,874182E+21	9,874357E+21	7,485229E+22	1,974854E+22	9,460083E+22
2690	3,742681E+22	3,742524E+22	9,873670E+21	9,873821E+21	7,485205E+22	1,974749E+22	9,459954E+22
2691	3,742596E+22	3,742672E+22	9,874036E+21	9,873048E+21	7,485268E+22	1,974708E+22	9,459977E+22
2692	3,742701E+22	3,742781E+22	9,873088E+21	9,873704E+21	7,485482E+22	1,974679E+22	9,460161E+22
2693	3,742718E+22	3,742632E+22	9,873136E+21	9,873037E+21	7,485350E+22	1,974617E+22	9,459967E+22
2694	3,742644E+22	3,742796E+22	9,873453E+21	9,873070E+21	7,485440E+22	1,974652E+22	9,460093E+22
2695	3,742754E+22	3,742722E+22	9,872880E+21	9,873690E+21	7,485476E+22	1,974657E+22	9,460133E+22
2696	3,742711E+22	3,742603E+22	9,873643E+21	9,873024E+21	7,485315E+22	1,974667E+22	9,459981E+22
2697	3,742664E+22	3,742750E+22	9,873840E+21	9,873821E+21	7,485414E+22	1,974766E+22	9,460180E+22
2698	3,742693E+22	3,742563E+22	9,873745E+21	9,874400E+21	7,485256E+22	1,974815E+22	9,460071E+22
2699	3,742505E+22	3,742549E+22	9,874951E+21	9,874209E+21	7,485053E+22	1,974916E+22	9,459969E+22
2700	3,742471E+22	3,742593E+22	9,874839E+21	9,875437E+21	7,485064E+22	1,975028E+22	9,460091E+22
2701	3,742475E+22	3,742322E+22	9,875179E+21	9,875323E+21	7,484798E+22	1,975050E+22	9,459848E+22
2702	3,742327E+22	3,742401E+22	9,876033E+21	9,875293E+21	7,484728E+22	1,975133E+22	9,459860E+22
2703	3,742368E+22	3,742377E+22	9,875513E+21	9,876247E+21	7,484745E+22	1,975176E+22	9,459921E+22
2704	3,742329E+22	3,742234E+22	9,876021E+21	9,875563E+21	7,484562E+22	1,975158E+22	9,459721E+22
2705	3,742254E+22	3,742431E+22	9,876098E+21	9,875819E+21	7,484685E+22	1,975192E+22	9,459876E+22
2706	3,742386E+22	3,742318E+22	9,875292E+21	9,876054E+21	7,484704E+22	1,975135E+22	9,459838E+22
2707	3,742352E+22	3,742319E+22	9,875745E+21	9,874890E+21	7,484672E+22	1,975064E+22	9,459735E+22
2708	3,742406E+22	3,742514E+22	9,875093E+21	9,875243E+21	7,484920E+22	1,975034E+22	9,459954E+22
2709	3,742531E+22	3,742386E+22	9,874458E+21	9,874688E+21	7,484917E+22	1,974915E+22	9,459832E+22
2710	3,742446E+22	3,742535E+22	9,874854E+21	9,874019E+21	7,484982E+22	1,974887E+22	9,459869E+22
2711	3,742509E+22	3,742626E+22	9,874048E+21	9,874774E+21	7,485135E+22	1,974882E+22	9,460017E+22
2712	3,742564E+22	3,742458E+22	9,874177E+21	9,874004E+21	7,485022E+22	1,974818E+22	9,459840E+22
2713	3,742504E+22	3,742617E+22	9,874588E+21	9,874001E+21	7,485120E+22	1,974859E+22	9,459979E+22
2714	3,742616E+22	3,742528E+22	9,873904E+21	9,874730E+21	7,485144E+22	1,974863E+22	9,460007E+22
2715	3,742551E+22	3,742431E+22	9,874730E+21	9,874138E+21	7,484982E+22	1,974887E+22	9,459869E+22
2716	3,742440E+22	3,742590E+22	9,875005E+21	9,875069E+21	7,485030E+22	1,975007E+22	9,460038E+22
2717	3,742473E+22	3,742388E+22	9,874855E+21	9,875578E+21	7,484861E+22	1,975043E+22	9,459904E+22
2718	3,742318E+22	3,742349E+22	9,876102E+21	9,875328E+21	7,484667E+22	1,975143E+22	9,459810E+22
2719	3,742263E+22	3,742384E+22	9,876047E+21	9,876552E+21	7,484647E+22	1,975260E+22	9,459907E+22
2720	3,742295E+22	3,742129E+22	9,876374E+21	9,876382E+21	7,484424E+22	1,975276E+22	9,459700E+22
2721	3,742142E+22	3,742227E+22	9,877217E+21	9,876402E+21	7,484368E+22	1,975362E+22	9,459730E+22
2722	3,742184E+22	3,742196E+22	9,876514E+21	9,877461E+21	7,484379E+22	1,975397E+22	9,459777E+22
2723	3,742170E+22	3,742060E+22	9,876995E+21	9,876673E+21	7,484230E+22	1,975367E+22	9,459597E+22
2724	3,742093E+22	3,742253E+22	9,877068E+21	9,876813E+21	7,484347E+22	1,975388E+22	9,459735E+22
2725	3,742259E+22	3,742156E+22	9,876110E+21	9,876824E+21	7,484415E+22	1,975293E+22	9,459709E+22
2726	3,742239E+22	3,742175E+22	9,876548E+21	9,875643E+21	7,484414E+22	1,975219E+22	9,459634E+22
2727	3,742221E+22	3,742382E+22	9,876010E+21	9,876127E+21	7,484604E+22	1,975214E+22	9,459818E+22
2728	3,742346E+22	3,742264E+22	9,875426E+21	9,875613E+21	7,484611E+22	1,975104E+22	9,459715E+22
2729	3,742267E+22	3,742382E+22	9,875904E+21	9,874988E+21	7,484649E+22	1,975089E+22	9,459739E+22
2730	3,742353E+22	3,742430E+22	9,875016E+21	9,875791E+21	7,484783E+22	1,975081E+22	9,459864E+22
2731	3,742442E+22	3,742269E+22	9,875135E+21	9,874970E+21	7,484711E+22	1,975011E+22	9,459722E+22
2732	3,742346E+22	3,742438E+22	9,875607E+21	9,875042E+21	7,484784E+22	1,975065E+22	9,459849E+22
2733	3,742448E+22	3,742377E+22	9,874873E+21	9,875786E+21	7,484824E+22	1,975066E+22	9,459890E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2734	3,742373E+22	3,742281E+22	9,875767E+21	9,875301E+21	7,484655E+22	1,975107E+22	9,459761E+22
2735	3,742208E+22	3,742413E+22	9,876232E+21	9,876290E+21	7,484621E+22	1,975252E+22	9,459873E+22
2736	3,742275E+22	3,742192E+22	9,876135E+21	9,876688E+21	7,484468E+22	1,975282E+22	9,459750E+22
2737	3,742136E+22	3,742138E+22	9,877388E+21	9,876417E+21	7,484274E+22	1,975380E+22	9,459655E+22
2738	3,742082E+22	3,742162E+22	9,877178E+21	9,877729E+21	7,484244E+22	1,975491E+22	9,459735E+22
2739	3,742119E+22	3,741937E+22	9,877449E+21	9,877582E+21	7,484056E+22	1,975503E+22	9,459559E+22
2740	3,741935E+22	3,742054E+22	9,878263E+21	9,877618E+21	7,483990E+22	1,975588E+22	9,459578E+22
2741	3,742013E+22	3,742028E+22	9,877444E+21	9,878483E+21	7,484041E+22	1,975593E+22	9,459634E+22
2742	3,742040E+22	3,741898E+22	9,877891E+21	9,877537E+21	7,483938E+22	1,975543E+22	9,459481E+22
2743	3,741936E+22	3,742100E+22	9,878038E+21	9,877612E+21	7,484036E+22	1,975565E+22	9,459601E+22
2744	3,742111E+22	3,742023E+22	9,877100E+21	9,877580E+21	7,484133E+22	1,975468E+22	9,459601E+22
2745	3,742070E+22	3,742050E+22	9,877558E+21	9,876544E+21	7,484120E+22	1,975410E+22	9,459530E+22
2746	3,742037E+22	3,742225E+22	9,876907E+21	9,877190E+21	7,484262E+22	1,975410E+22	9,459671E+22
2747	3,742186E+22	3,742085E+22	9,876357E+21	9,876675E+21	7,484272E+22	1,975303E+22	9,459575E+22
2748	3,742115E+22	3,742192E+22	9,876833E+21	9,875993E+21	7,484307E+22	1,975283E+22	9,459589E+22
2749	3,742235E+22	3,742247E+22	9,875849E+21	9,876667E+21	7,484482E+22	1,975252E+22	9,459734E+22
2750	3,742322E+22	3,742117E+22	9,876004E+21	9,875880E+21	7,484439E+22	1,975188E+22	9,459627E+22
2751	3,742148E+22	3,742301E+22	9,876657E+21	9,876088E+21	7,484449E+22	1,975274E+22	9,459723E+22
2752	3,742235E+22	3,742240E+22	9,876055E+21	9,876865E+21	7,484475E+22	1,975292E+22	9,459767E+22
2753	3,742161E+22	3,742109E+22	9,877068E+21	9,876456E+21	7,484270E+22	1,975352E+22	9,459622E+22
2754	3,742007E+22	3,742186E+22	9,877455E+21	9,877486E+21	7,484192E+22	1,975494E+22	9,459686E+22
2755	3,742107E+22	3,741965E+22	9,877339E+21	9,877876E+21	7,484072E+22	1,975521E+22	9,459593E+22
2756	3,741949E+22	3,741924E+22	9,878529E+21	9,877638E+21	7,483874E+22	1,975617E+22	9,459490E+22
2757	3,741907E+22	3,741977E+22	9,878166E+21	9,878905E+21	7,483884E+22	1,975707E+22	9,459591E+22
2758	3,741955E+22	3,741781E+22	9,878397E+21	9,878723E+21	7,483735E+22	1,975712E+22	9,459447E+22
2759	3,741745E+22	3,741890E+22	9,879333E+21	9,878677E+21	7,483634E+22	1,975801E+22	9,459435E+22
2760	3,741859E+22	3,741875E+22	9,878552E+21	9,879323E+21	7,483734E+22	1,975787E+22	9,459522E+22
2761	3,741894E+22	3,741748E+22	9,878971E+21	9,878352E+21	7,483642E+22	1,975732E+22	9,459375E+22
2762	3,741762E+22	3,741933E+22	9,879011E+21	9,878524E+21	7,483696E+22	1,975753E+22	9,459449E+22
2763	3,741932E+22	3,741873E+22	9,878035E+21	9,878572E+21	7,483805E+22	1,975661E+22	9,459466E+22
2764	3,741867E+22	3,741887E+22	9,878457E+21	9,877599E+21	7,483754E+22	1,975606E+22	9,459360E+22
2765	3,741882E+22	3,742047E+22	9,877710E+21	9,878127E+21	7,483929E+22	1,975584E+22	9,459512E+22
2766	3,742076E+22	3,741919E+22	9,877126E+21	9,877525E+21	7,483995E+22	1,975465E+22	9,459460E+22
2767	3,741977E+22	3,742034E+22	9,877724E+21	9,876852E+21	7,484010E+22	1,975458E+22	9,459468E+22
2768	3,742095E+22	3,742117E+22	9,876857E+21	9,877507E+21	7,484213E+22	1,975436E+22	9,459649E+22
2769	3,742149E+22	3,741993E+22	9,877099E+21	9,876913E+21	7,484143E+22	1,975401E+22	9,459544E+22
2770	3,741940E+22	3,742130E+22	9,877784E+21	9,877279E+21	7,484071E+22	1,975506E+22	9,459577E+22
2771	3,742045E+22	3,742038E+22	9,877275E+21	9,878073E+21	7,484083E+22	1,975535E+22	9,459618E+22
2772	3,741968E+22	3,741885E+22	9,878278E+21	9,877646E+21	7,483853E+22	1,975592E+22	9,459446E+22
2773	3,741848E+22	3,741961E+22	9,878518E+21	9,878597E+21	7,483809E+22	1,975712E+22	9,459521E+22
2774	3,741946E+22	3,741777E+22	9,878358E+21	9,879012E+21	7,483723E+22	1,975737E+22	9,459460E+22
2775	3,741737E+22	3,741759E+22	9,879616E+21	9,878839E+21	7,483496E+22	1,975846E+22	9,459341E+22
2776	3,741706E+22	3,741824E+22	9,879340E+21	9,879993E+21	7,483530E+22	1,975933E+22	9,459463E+22
2777	3,741768E+22	3,741625E+22	9,879606E+21	9,879769E+21	7,483393E+22	1,975938E+22	9,459330E+22
2778	3,741569E+22	3,741701E+22	9,880433E+21	9,879661E+21	7,483270E+22	1,976009E+22	9,459279E+22
2779	3,741703E+22	3,741690E+22	9,879639E+21	9,880269E+21	7,483394E+22	1,975991E+22	9,459384E+22
2780	3,741709E+22	3,741581E+22	9,879968E+21	9,879352E+21	7,483291E+22	1,975932E+22	9,459223E+22
2781	3,741593E+22	3,741770E+22	9,879811E+21	9,879532E+21	7,483362E+22	1,975934E+22	9,459297E+22
2782	3,741775E+22	3,741722E+22	9,878792E+21	9,879571E+21	7,483498E+22	1,975836E+22	9,459334E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2783	3,741708E+22	3,741721E+22	9,879293E+21	9,878537E+21	7,483429E+22	1,975783E+22	9,459212E+22
2784	3,741767E+22	3,741889E+22	9,878622E+21	9,878871E+21	7,483656E+22	1,975749E+22	9,459405E+22
2785	3,741962E+22	3,741785E+22	9,878076E+21	9,878313E+21	7,483746E+22	1,975639E+22	9,459385E+22
2786	3,741820E+22	3,741885E+22	9,878685E+21	9,877786E+21	7,483704E+22	1,975647E+22	9,459351E+22
2787	3,741915E+22	3,741974E+22	9,877942E+21	9,878565E+21	7,483889E+22	1,975651E+22	9,459539E+22
2788	3,741931E+22	3,741829E+22	9,878238E+21	9,878081E+21	7,483760E+22	1,975632E+22	9,459392E+22
2789	3,741756E+22	3,741926E+22	9,878856E+21	9,878401E+21	7,483682E+22	1,975726E+22	9,459407E+22
2790	3,741886E+22	3,741840E+22	9,878318E+21	9,879156E+21	7,483726E+22	1,975747E+22	9,459473E+22
2791	3,741785E+22	3,741683E+22	9,879397E+21	9,878780E+21	7,483468E+22	1,975818E+22	9,459285E+22
2792	3,741671E+22	3,741789E+22	9,879699E+21	9,879690E+21	7,483460E+22	1,975939E+22	9,459399E+22
2793	3,741754E+22	3,741627E+22	9,879532E+21	9,880232E+21	7,483381E+22	1,975976E+22	9,459357E+22
2794	3,741526E+22	3,741570E+22	9,880780E+21	9,880100E+21	7,483096E+22	1,976088E+22	9,459184E+22
2795	3,741530E+22	3,741626E+22	9,880566E+21	9,881129E+21	7,483156E+22	1,976169E+22	9,459326E+22
2796	3,741590E+22	3,741427E+22	9,880749E+21	9,880793E+21	7,483018E+22	1,976154E+22	9,459172E+22
2797	3,741420E+22	3,741508E+22	9,881381E+21	9,880595E+21	7,482928E+22	1,976198E+22	9,459125E+22
2798	3,741543E+22	3,741538E+22	9,880489E+21	9,881195E+21	7,483081E+22	1,976168E+22	9,459249E+22
2799	3,741505E+22	3,741435E+22	9,880843E+21	9,880361E+21	7,482940E+22	1,976120E+22	9,459060E+22
2800	3,741418E+22	3,741624E+22	9,880741E+21	9,880412E+21	7,483042E+22	1,976115E+22	9,459157E+22
2801	3,741632E+22	3,741576E+22	9,879726E+21	9,880437E+21	7,483207E+22	1,976016E+22	9,459224E+22
2802	3,741577E+22	3,741548E+22	9,880177E+21	9,879387E+21	7,483125E+22	1,975956E+22	9,459081E+22
2803	3,741653E+22	3,741729E+22	9,879595E+21	9,879722E+21	7,483382E+22	1,975932E+22	9,459314E+22
2804	3,741798E+22	3,741649E+22	9,879055E+21	9,879270E+21	7,483447E+22	1,975832E+22	9,459279E+22
2805	3,741654E+22	3,741736E+22	9,879583E+21	9,878845E+21	7,483390E+22	1,975843E+22	9,459233E+22
2806	3,741735E+22	3,741819E+22	9,878908E+21	9,879651E+21	7,483554E+22	1,975856E+22	9,459410E+22
2807	3,741738E+22	3,741640E+22	9,879331E+21	9,879210E+21	7,483379E+22	1,975854E+22	9,459233E+22
2808	3,741597E+22	3,741728E+22	9,880012E+21	9,879402E+21	7,483325E+22	1,975941E+22	9,459266E+22
2809	3,741718E+22	3,741661E+22	9,879490E+21	9,880262E+21	7,483379E+22	1,975975E+22	9,459354E+22
2810	3,741584E+22	3,741491E+22	9,880519E+21	9,879999E+21	7,483075E+22	1,976052E+22	9,459127E+22
2811	3,741468E+22	3,741599E+22	9,880913E+21	9,880952E+21	7,483068E+22	1,976187E+22	9,459254E+22
2812	3,741532E+22	3,741441E+22	9,880763E+21	9,881461E+21	7,482973E+22	1,976222E+22	9,459196E+22
2813	3,741356E+22	3,741362E+22	9,881862E+21	9,881210E+21	7,482719E+22	1,976307E+22	9,459026E+22
2814	3,741378E+22	3,741441E+22	9,881592E+21	9,882098E+21	7,482819E+22	1,976369E+22	9,459188E+22
2815	3,741412E+22	3,741254E+22	9,881783E+21	9,881785E+21	7,482666E+22	1,976357E+22	9,459022E+22
2816	3,741244E+22	3,741358E+22	9,882390E+21	9,881516E+21	7,482602E+22	1,976391E+22	9,458993E+22
2817	3,741356E+22	3,741409E+22	9,881454E+21	9,882221E+21	7,482764E+22	1,976368E+22	9,459132E+22
2818	3,741319E+22	3,741261E+22	9,881770E+21	9,881402E+21	7,482580E+22	1,976317E+22	9,458897E+22
2819	3,741288E+22	3,741438E+22	9,881733E+21	9,881339E+21	7,482726E+22	1,976307E+22	9,459033E+22
2820	3,741502E+22	3,741410E+22	9,880667E+21	9,881276E+21	7,482911E+22	1,976194E+22	9,459106E+22
2821	3,741468E+22	3,741389E+22	9,880966E+21	9,880233E+21	7,482856E+22	1,976120E+22	9,458976E+22
2822	3,741511E+22	3,741609E+22	9,880399E+21	9,880596E+21	7,483120E+22	1,976099E+22	9,459220E+22
2823	3,741599E+22	3,741518E+22	9,879987E+21	9,880293E+21	7,483117E+22	1,976028E+22	9,459145E+22
2824	3,741467E+22	3,741586E+22	9,880653E+21	9,879811E+21	7,483052E+22	1,976046E+22	9,459099E+22
2825	3,741560E+22	3,741655E+22	9,880014E+21	9,880667E+21	7,483215E+22	1,976068E+22	9,459283E+22
2826	3,741558E+22	3,741429E+22	9,880443E+21	9,880309E+21	7,482987E+22	1,976075E+22	9,459062E+22
2827	3,741440E+22	3,741517E+22	9,881205E+21	9,880539E+21	7,482958E+22	1,976174E+22	9,459132E+22
2828	3,741522E+22	3,741476E+22	9,880654E+21	9,881482E+21	7,482997E+22	1,976214E+22	9,459211E+22
2829	3,741403E+22	3,741299E+22	9,881547E+21	9,881277E+21	7,482702E+22	1,976282E+22	9,458984E+22
2830	3,741292E+22	3,741418E+22	9,881975E+21	9,882120E+21	7,482711E+22	1,976410E+22	9,459120E+22
2831	3,741346E+22	3,741249E+22	9,881912E+21	9,882565E+21	7,482595E+22	1,976448E+22	9,459043E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2832	3,741196E+22	3,741185E+22	9,883024E+21	9,882134E+21	7,482381E+22	1,976516E+22	9,458896E+22
2833	3,741199E+22	3,741290E+22	9,882718E+21	9,883078E+21	7,482489E+22	1,976580E+22	9,459068E+22
2834	3,741195E+22	3,741084E+22	9,882848E+21	9,882884E+21	7,482279E+22	1,976573E+22	9,458852E+22
2835	3,741049E+22	3,741179E+22	9,883471E+21	9,882623E+21	7,482228E+22	1,976609E+22	9,458837E+22
2836	3,741161E+22	3,741232E+22	9,882486E+21	9,883249E+21	7,482393E+22	1,976574E+22	9,458967E+22
2837	3,741195E+22	3,741072E+22	9,882579E+21	9,882335E+21	7,482267E+22	1,976491E+22	9,458759E+22
2838	3,741187E+22	3,741280E+22	9,882502E+21	9,882138E+21	7,482467E+22	1,976464E+22	9,458931E+22
2839	3,741366E+22	3,741277E+22	9,881512E+21	9,882126E+21	7,482643E+22	1,976364E+22	9,459007E+22
2840	3,741322E+22	3,741276E+22	9,881845E+21	9,881072E+21	7,482599E+22	1,976292E+22	9,458891E+22
2841	3,741330E+22	3,741498E+22	9,881357E+21	9,881568E+21	7,482829E+22	1,976292E+22	9,459121E+22
2842	3,741402E+22	3,741344E+22	9,881018E+21	9,881351E+21	7,482747E+22	1,976237E+22	9,458984E+22
2843	3,741314E+22	3,741371E+22	9,881791E+21	9,880842E+21	7,482685E+22	1,976263E+22	9,458949E+22
2844	3,741392E+22	3,741453E+22	9,881147E+21	9,881690E+21	7,482846E+22	1,976284E+22	9,459129E+22
2845	3,741410E+22	3,741228E+22	9,881406E+21	9,881434E+21	7,482638E+22	1,976284E+22	9,458922E+22
2846	3,741267E+22	3,741349E+22	9,882173E+21	9,881686E+21	7,482617E+22	1,976386E+22	9,459002E+22
2847	3,741309E+22	3,741308E+22	9,881756E+21	9,882704E+21	7,482617E+22	1,976446E+22	9,459063E+22
2848	3,741213E+22	3,741128E+22	9,882733E+21	9,882357E+21	7,482341E+22	1,976509E+22	9,458850E+22
2849	3,741112E+22	3,741253E+22	9,883191E+21	9,883165E+21	7,482365E+22	1,976636E+22	9,459001E+22
2850	3,741151E+22	3,741053E+22	9,883136E+21	9,883652E+21	7,482204E+22	1,976679E+22	9,458883E+22
2851	3,741017E+22	3,740989E+22	9,884267E+21	9,883249E+21	7,482005E+22	1,976752E+22	9,458757E+22
2852	3,740980E+22	3,741120E+22	9,883858E+21	9,884225E+21	7,482100E+22	1,976808E+22	9,458908E+22
2853	3,741010E+22	3,740893E+22	9,883762E+21	9,884085E+21	7,481904E+22	1,976785E+22	9,458689E+22
2854	3,740902E+22	3,740995E+22	9,884318E+21	9,883650E+21	7,481897E+22	1,976797E+22	9,458694E+22
2855	3,741029E+22	3,741050E+22	9,883364E+21	9,884160E+21	7,482079E+22	1,976752E+22	9,458831E+22
2856	3,741089E+22	3,740930E+22	9,883427E+21	9,883052E+21	7,482020E+22	1,976648E+22	9,458668E+22
2857	3,741058E+22	3,741178E+22	9,883342E+21	9,882892E+21	7,482236E+22	1,976623E+22	9,458859E+22
2858	3,741176E+22	3,741150E+22	9,882426E+21	9,883020E+21	7,482326E+22	1,976545E+22	9,458870E+22
2859	3,741140E+22	3,741125E+22	9,882896E+21	9,882044E+21	7,482265E+22	1,976494E+22	9,458759E+22
2860	3,741131E+22	3,741329E+22	9,882444E+21	9,882523E+21	7,482460E+22	1,976497E+22	9,458957E+22
2861	3,741255E+22	3,741139E+22	9,881953E+21	9,882381E+21	7,482394E+22	1,976433E+22	9,458827E+22
2862	3,741184E+22	3,741180E+22	9,882698E+21	9,881835E+21	7,482364E+22	1,976453E+22	9,458818E+22
2863	3,741228E+22	3,741275E+22	9,882148E+21	9,882794E+21	7,482502E+22	1,976494E+22	9,458996E+22
2864	3,741237E+22	3,741082E+22	9,882425E+21	9,882533E+21	7,482319E+22	1,976496E+22	9,458815E+22
2865	3,741076E+22	3,741209E+22	9,883269E+21	9,882861E+21	7,482285E+22	1,976613E+22	9,458898E+22
2866	3,741100E+22	3,741116E+22	9,883007E+21	9,883898E+21	7,482216E+22	1,976690E+22	9,458907E+22
2867	3,741044E+22	3,740915E+22	9,884072E+21	9,883495E+21	7,481960E+22	1,976757E+22	9,458716E+22
2868	3,740913E+22	3,741058E+22	9,884492E+21	9,884249E+21	7,481971E+22	1,976874E+22	9,458845E+22
2869	3,740966E+22	3,740851E+22	9,884208E+21	9,884855E+21	7,481818E+22	1,976906E+22	9,458724E+22
2870	3,740822E+22	3,740805E+22	9,885239E+21	9,884425E+21	7,481627E+22	1,976966E+22	9,458593E+22
2871	3,740773E+22	3,740935E+22	9,884862E+21	9,885380E+21	7,481708E+22	1,977024E+22	9,458732E+22
2872	3,740854E+22	3,740724E+22	9,884693E+21	9,885014E+21	7,481578E+22	1,976971E+22	9,458549E+22
2873	3,740775E+22	3,740847E+22	9,885203E+21	9,884477E+21	7,481622E+22	1,976968E+22	9,458590E+22
2874	3,740888E+22	3,740896E+22	9,884310E+21	9,884969E+21	7,481784E+22	1,976928E+22	9,458712E+22
2875	3,740956E+22	3,740790E+22	9,884413E+21	9,883891E+21	7,481745E+22	1,976830E+22	9,458576E+22
2876	3,740868E+22	3,741059E+22	9,884326E+21	9,883773E+21	7,481927E+22	1,976810E+22	9,458737E+22
2877	3,741003E+22	3,740992E+22	9,883283E+21	9,884045E+21	7,481995E+22	1,976733E+22	9,458728E+22
2878	3,740989E+22	3,740946E+22	9,883763E+21	9,883014E+21	7,481935E+22	1,976678E+22	9,458612E+22
2879	3,740980E+22	3,741137E+22	9,883392E+21	9,883491E+21	7,482116E+22	1,976688E+22	9,458805E+22
2880	3,741120E+22	3,740975E+22	9,882880E+21	9,883291E+21	7,482095E+22	1,976617E+22	9,458712E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude [⊙]	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2881	3,741030E+22	3,741045E+22	9,883633E+21	9,882852E+21	7,482075E+22	1,976649E+22	9,458724E+22
2882	3,741022E+22	3,741114E+22	9,883241E+21	9,883942E+21	7,482136E+22	1,976718E+22	9,458855E+22
2883	3,741045E+22	3,740906E+22	9,883665E+21	9,883709E+21	7,481951E+22	1,976737E+22	9,458688E+22
2884	3,740870E+22	3,741026E+22	9,884564E+21	9,883958E+21	7,481896E+22	1,976852E+22	9,458748E+22
2885	3,740930E+22	3,740901E+22	9,884174E+21	9,885068E+21	7,481831E+22	1,976924E+22	9,458755E+22
2886	3,740880E+22	3,740715E+22	9,885194E+21	9,884636E+21	7,481595E+22	1,976983E+22	9,458578E+22
2887	3,740714E+22	3,740863E+22	9,885611E+21	9,885452E+21	7,481577E+22	1,977106E+22	9,458683E+22
2888	3,740765E+22	3,740686E+22	9,885241E+21	9,886007E+21	7,481451E+22	1,977125E+22	9,458576E+22
2889	3,740638E+22	3,740646E+22	9,886199E+21	9,885529E+21	7,481284E+22	1,977173E+22	9,458456E+22
2890	3,740596E+22	3,740734E+22	9,885922E+21	9,886387E+21	7,481330E+22	1,977231E+22	9,458561E+22
2891	3,740728E+22	3,740543E+22	9,885769E+21	9,885881E+21	7,481271E+22	1,977165E+22	9,458436E+22
2892	3,740625E+22	3,740706E+22	9,886223E+21	9,885262E+21	7,481331E+22	1,977148E+22	9,458480E+22
2893	3,740735E+22	3,740752E+22	9,885174E+21	9,885894E+21	7,481486E+22	1,977107E+22	9,458593E+22
2894	3,740782E+22	3,740658E+22	9,885236E+21	9,884838E+21	7,481440E+22	1,977007E+22	9,458448E+22
2895	3,740673E+22	3,740899E+22	9,885234E+21	9,884752E+21	7,481572E+22	1,976999E+22	9,458570E+22
2896	3,740842E+22	3,740833E+22	9,884167E+21	9,884915E+21	7,481676E+22	1,976908E+22	9,458584E+22
2897	3,740856E+22	3,740790E+22	9,884616E+21	9,883901E+21	7,481647E+22	1,976852E+22	9,458498E+22
2898	3,740828E+22	3,740957E+22	9,884400E+21	9,884460E+21	7,481785E+22	1,976886E+22	9,458671E+22
2899	3,740973E+22	3,740814E+22	9,883954E+21	9,884351E+21	7,481787E+22	1,976830E+22	9,458618E+22
2900	3,740836E+22	3,740901E+22	9,884737E+21	9,883962E+21	7,481737E+22	1,976870E+22	9,458607E+22
2901	3,740846E+22	3,740927E+22	9,884309E+21	9,885167E+21	7,481773E+22	1,976948E+22	9,458720E+22
2902	3,740886E+22	3,740704E+22	9,884774E+21	9,884848E+21	7,481589E+22	1,976962E+22	9,458552E+22
2903	3,740695E+22	3,740818E+22	9,885756E+21	9,885071E+21	7,481513E+22	1,977083E+22	9,458596E+22
2904	3,740753E+22	3,740725E+22	9,885296E+21	9,886117E+21	7,481478E+22	1,977141E+22	9,458620E+22
2905	3,740678E+22	3,740556E+22	9,886264E+21	9,885778E+21	7,481234E+22	1,977204E+22	9,458438E+22
2906	3,740477E+22	3,740673E+22	9,886788E+21	9,886650E+21	7,481150E+22	1,977344E+22	9,458494E+22
2907	3,740568E+22	3,740490E+22	9,886443E+21	9,887139E+21	7,481058E+22	1,977358E+22	9,458416E+22
2908	3,740454E+22	3,740465E+22	9,887336E+21	9,886508E+21	7,480919E+22	1,977384E+22	9,458303E+22
2909	3,740463E+22	3,740541E+22	9,886894E+21	9,887372E+21	7,481005E+22	1,977427E+22	9,458431E+22
2910	3,740598E+22	3,740387E+22	9,886666E+21	9,886791E+21	7,480985E+22	1,977346E+22	9,458331E+22
2911	3,740457E+22	3,740567E+22	9,887120E+21	9,886213E+21	7,481024E+22	1,977333E+22	9,458358E+22
2912	3,740556E+22	3,740633E+22	9,886008E+21	9,886802E+21	7,481190E+22	1,977281E+22	9,458471E+22
2913	3,740616E+22	3,740525E+22	9,886060E+21	9,885767E+21	7,481141E+22	1,977183E+22	9,458324E+22
2914	3,740512E+22	3,740709E+22	9,886206E+21	9,885661E+21	7,481220E+22	1,977187E+22	9,458407E+22
2915	3,740719E+22	3,740654E+22	9,885181E+21	9,885789E+21	7,481373E+22	1,977097E+22	9,458470E+22
2916	3,740710E+22	3,740642E+22	9,885595E+21	9,884788E+21	7,481352E+22	1,977038E+22	9,458390E+22
2917	3,740678E+22	3,740789E+22	9,885315E+21	9,885543E+21	7,481467E+22	1,977086E+22	9,458553E+22
2918	3,740804E+22	3,740662E+22	9,884908E+21	9,885456E+21	7,481467E+22	1,977036E+22	9,458503E+22
2919	3,740647E+22	3,740724E+22	9,885815E+21	9,885074E+21	7,481371E+22	1,977089E+22	9,458460E+22
2920	3,740670E+22	3,740752E+22	9,885418E+21	9,886166E+21	7,481423E+22	1,977158E+22	9,458581E+22
2921	3,740720E+22	3,740537E+22	9,885874E+21	9,885885E+21	7,481257E+22	1,977176E+22	9,458433E+22
2922	3,740492E+22	3,740614E+22	9,887005E+21	9,886207E+21	7,481107E+22	1,977321E+22	9,458428E+22
2923	3,740545E+22	3,740543E+22	9,886566E+21	9,887328E+21	7,481088E+22	1,977389E+22	9,458477E+22
2924	3,740447E+22	3,740383E+22	9,887466E+21	9,887006E+21	7,480830E+22	1,977447E+22	9,458277E+22
2925	3,740289E+22	3,740448E+22	9,887888E+21	9,887921E+21	7,480738E+22	1,977581E+22	9,458319E+22
2926	3,740421E+22	3,740281E+22	9,887479E+21	9,888230E+21	7,480703E+22	1,977571E+22	9,458273E+22
2927	3,740311E+22	3,740275E+22	9,888335E+21	9,887502E+21	7,480585E+22	1,977584E+22	9,458169E+22
2928	3,740317E+22	3,740402E+22	9,887808E+21	9,888244E+21	7,480720E+22	1,977605E+22	9,458325E+22
2929	3,740430E+22	3,740278E+22	9,887503E+21	9,887696E+21	7,480708E+22	1,977520E+22	9,458228E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude \odot	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2930	3,740252E+22	3,740416E+22	9,888098E+21	9,887162E+21	7,480669E+22	1,977526E+22	9,458195E+22
2931	3,740381E+22	3,740473E+22	9,887034E+21	9,887689E+21	7,480854E+22	1,977472E+22	9,458326E+22
2932	3,740453E+22	3,740364E+22	9,887043E+21	9,886607E+21	7,480817E+22	1,977365E+22	9,458182E+22
2933	3,740395E+22	3,740514E+22	9,887089E+21	9,886610E+21	7,480909E+22	1,977370E+22	9,458279E+22
2934	3,740604E+22	3,740488E+22	9,886042E+21	9,886750E+21	7,481091E+22	1,977279E+22	9,458371E+22
2935	3,740554E+22	3,740494E+22	9,886480E+21	9,885840E+21	7,481048E+22	1,977232E+22	9,458280E+22
2936	3,740510E+22	3,740659E+22	9,886206E+21	9,886549E+21	7,481169E+22	1,977276E+22	9,458445E+22
2937	3,740635E+22	3,740516E+22	9,885877E+21	9,886467E+21	7,481151E+22	1,977234E+22	9,458385E+22
2938	3,740466E+22	3,740525E+22	9,887026E+21	9,886097E+21	7,480991E+22	1,977312E+22	9,458303E+22
2939	3,740497E+22	3,740566E+22	9,886703E+21	9,887185E+21	7,481062E+22	1,977389E+22	9,458451E+22
2940	3,740509E+22	3,740367E+22	9,887137E+21	9,887012E+21	7,480876E+22	1,977415E+22	9,458291E+22
2941	3,740282E+22	3,740404E+22	9,888156E+21	9,887541E+21	7,480686E+22	1,977570E+22	9,458256E+22
2942	3,740336E+22	3,740336E+22	9,887684E+21	9,888631E+21	7,480672E+22	1,977631E+22	9,458304E+22
2943	3,740251E+22	3,740169E+22	9,888565E+21	9,888225E+21	7,480419E+22	1,977679E+22	9,458098E+22
2944	3,740136E+22	3,740260E+22	9,888894E+21	9,888933E+21	7,480396E+22	1,977783E+22	9,458179E+22
2945	3,740287E+22	3,740129E+22	9,888437E+21	9,889162E+21	7,480416E+22	1,977760E+22	9,458176E+22
2946	3,740145E+22	3,740114E+22	9,889404E+21	9,888455E+21	7,480260E+22	1,977786E+22	9,458046E+22
2947	3,740137E+22	3,740272E+22	9,888880E+21	9,889180E+21	7,480410E+22	1,977806E+22	9,458216E+22
2948	3,740228E+22	3,740150E+22	9,888522E+21	9,888650E+21	7,480378E+22	1,977717E+22	9,458095E+22
2949	3,740093E+22	3,740214E+22	9,889032E+21	9,888185E+21	7,480306E+22	1,977722E+22	9,458028E+22
2950	3,740254E+22	3,740283E+22	9,887924E+21	9,888593E+21	7,480537E+22	1,977652E+22	9,458188E+22
2951	3,740327E+22	3,740190E+22	9,887876E+21	9,887506E+21	7,480517E+22	1,977538E+22	9,458055E+22
2952	3,740263E+22	3,740376E+22	9,887869E+21	9,887481E+21	7,480638E+22	1,977535E+22	9,458174E+22
2953	3,740448E+22	3,740379E+22	9,886835E+21	9,887673E+21	7,480828E+22	1,977451E+22	9,458278E+22
2954	3,740363E+22	3,740340E+22	9,887499E+21	9,886836E+21	7,480703E+22	1,977434E+22	9,458136E+22
2955	3,740330E+22	3,740499E+22	9,887371E+21	9,887483E+21	7,480829E+22	1,977485E+22	9,458315E+22
2956	3,740452E+22	3,740353E+22	9,887072E+21	9,887444E+21	7,480805E+22	1,977452E+22	9,458257E+22
2957	3,740299E+22	3,740306E+22	9,888191E+21	9,887275E+21	7,480606E+22	1,977547E+22	9,458152E+22
2958	3,740316E+22	3,740367E+22	9,887851E+21	9,888414E+21	7,480683E+22	1,977626E+22	9,458309E+22
2959	3,740297E+22	3,740172E+22	9,888241E+21	9,888352E+21	7,480469E+22	1,977659E+22	9,458129E+22
2960	3,740088E+22	3,740211E+22	9,889187E+21	9,888798E+21	7,480298E+22	1,977798E+22	9,458097E+22
2961	3,740172E+22	3,740145E+22	9,888710E+21	9,889759E+21	7,480317E+22	1,977847E+22	9,458164E+22
2962	3,740092E+22	3,739962E+22	9,889719E+21	9,889257E+21	7,480054E+22	1,977898E+22	9,457951E+22
2963	3,739988E+22	3,740099E+22	9,890067E+21	9,889841E+21	7,480087E+22	1,977991E+22	9,458078E+22
2964	3,740098E+22	3,740004E+22	9,889579E+21	9,890109E+21	7,480102E+22	1,977969E+22	9,458070E+22
2965	3,739950E+22	3,739949E+22	9,890442E+21	9,889565E+21	7,479899E+22	1,978001E+22	9,457900E+22
2966	3,739944E+22	3,740101E+22	9,889875E+21	9,890206E+21	7,480045E+22	1,978008E+22	9,458053E+22
2967	3,740045E+22	3,739963E+22	9,889461E+21	9,889637E+21	7,480009E+22	1,977910E+22	9,457918E+22
2968	3,739962E+22	3,740039E+22	9,889812E+21	9,889031E+21	7,480000E+22	1,977884E+22	9,457885E+22
2969	3,740140E+22	3,740135E+22	9,888670E+21	9,889402E+21	7,480274E+22	1,977807E+22	9,458082E+22
2970	3,740183E+22	3,740044E+22	9,888757E+21	9,888395E+21	7,480228E+22	1,977715E+22	9,457943E+22
2971	3,740106E+22	3,740263E+22	9,888807E+21	9,888375E+21	7,480368E+22	1,977718E+22	9,458087E+22
2972	3,740264E+22	3,740260E+22	9,887862E+21	9,888620E+21	7,480524E+22	1,977648E+22	9,458172E+22
2973	3,740206E+22	3,740141E+22	9,888552E+21	9,887910E+21	7,480348E+22	1,977646E+22	9,457994E+22
2974	3,740181E+22	3,740299E+22	9,888467E+21	9,888491E+21	7,480480E+22	1,977696E+22	9,458176E+22
2975	3,740279E+22	3,740162E+22	9,888165E+21	9,888557E+21	7,480440E+22	1,977672E+22	9,458113E+22
2976	3,740118E+22	3,740127E+22	9,889195E+21	9,888435E+21	7,480245E+22	1,977763E+22	9,458008E+22
2977	3,740118E+22	3,740201E+22	9,888858E+21	9,889603E+21	7,480319E+22	1,977846E+22	9,458165E+22
2978	3,740086E+22	3,739970E+22	9,889411E+21	9,889560E+21	7,480056E+22	1,977897E+22	9,457953E+22

1	14	15	16	17	18	19	20
	Astronomical season (northern hemisphere)				Summer half year (northern hemisphere)	Winter half year (northern hemisphere)	Tropical year
	Spring	Summer	Autumn	Winter			
Longitude ☉	0° - 90°	90° - 180°	180° - 270°	270° - 360°	0° - 180°	180° - 360°	0° - 360°
Years							
2979	3,739908E+22	3,740022E+22	9,890404E+21	9,889852E+21	7,479930E+22	1,978026E+22	9,457956E+22
2980	3,740001E+22	3,739979E+22	9,889945E+21	9,890772E+21	7,479981E+22	1,978072E+22	9,458052E+22
2981	3,739936E+22	3,739761E+22	9,890892E+21	9,890394E+21	7,479697E+22	1,978129E+22	9,457825E+22
2982	3,739810E+22	3,739934E+22	9,891197E+21	9,890935E+21	7,479744E+22	1,978213E+22	9,457957E+22
2983	3,739887E+22	3,739848E+22	9,890607E+21	9,891258E+21	7,479734E+22	1,978187E+22	9,457921E+22
2984	3,739759E+22	3,739772E+22	9,891335E+21	9,890628E+21	7,479531E+22	1,978196E+22	9,457727E+22
2985	3,739789E+22	3,739923E+22	9,890717E+21	9,891103E+21	7,479713E+22	1,978182E+22	9,457895E+22
2986	3,739905E+22	3,739773E+22	9,890369E+21	9,890491E+21	7,479678E+22	1,978086E+22	9,457764E+22
2987	3,739836E+22	3,739897E+22	9,890706E+21	9,889807E+21	7,479733E+22	1,978051E+22	9,457785E+22
2988	3,739987E+22	3,740028E+22	9,889587E+21	9,890249E+21	7,480015E+22	1,977984E+22	9,457998E+22
2989	3,740021E+22	3,739893E+22	9,889652E+21	9,889418E+21	7,479913E+22	1,977907E+22	9,457820E+22
2990	3,739943E+22	3,740105E+22	9,889774E+21	9,889318E+21	7,480048E+22	1,977909E+22	9,457957E+22
2991	3,740094E+22	3,740088E+22	9,888865E+21	9,889583E+21	7,480182E+22	1,977845E+22	9,458027E+22
2992	3,740062E+22	3,739962E+22	9,889499E+21	9,888882E+21	7,480024E+22	1,977838E+22	9,457862E+22
2993	3,740031E+22	3,740132E+22	9,889439E+21	9,889483E+21	7,480163E+22	1,977892E+22	9,458055E+22
2994	3,740086E+22	3,739985E+22	9,889278E+21	9,889719E+21	7,480071E+22	1,977900E+22	9,457971E+22
2995	3,739920E+22	3,739969E+22	9,890324E+21	9,889596E+21	7,479889E+22	1,977992E+22	9,457881E+22
2996	3,739916E+22	3,740028E+22	9,890078E+21	9,890781E+21	7,479943E+22	1,978086E+22	9,458029E+22
2997	3,739917E+22	3,739743E+22	9,890618E+21	9,890783E+21	7,479661E+22	1,978140E+22	9,457801E+22
2998	3,739758E+22	3,739818E+22	9,891592E+21	9,890939E+21	7,479576E+22	1,978253E+22	9,457829E+22
2999	3,739817E+22	3,739801E+22	9,891121E+21	9,891894E+21	7,479617E+22	1,978301E+22	9,457919E+22