

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

January 0 – February 1 a = 0 , b = 32

CN	B0	L0	P
N	°	°	°
0	2.82865690976947	2.52796506663817	7.06090917349917
1	-0.255288775766048	0.338365869261743	1.44646253065348
2	5.58547391692001	6.1685783610685	16.2351151793149
3	1.34081903161027	-1.93387108979365	-9.98601256015769
4	-3.03823370063799	-3.22123214651784	-9.16059087100468
5	-0.646333362712106	-0.0402650621300924	1.98899903241882
6	0.453256868911359	0.730425625854644	1.86014736410874
7	0.267913243706872	0.253242764285415	0.328052219718015
8	-0.000978728729694674	-0.135262673463754	-0.488023093233087
9	-0.0776887578306775	-0.094576957196343	-0.508843920061139
10	-0.0309742530566009	0.0100873638432249	0.178773569840664
11	0.0131862940348855	0.02550205138663	0.298742791813682
12	0.0146022683970524	0.00496647219627785	-0.0217881821134432
13	0.000754445453757171	-0.0054339001923954	-0.120358704926415
14	-0.00414197101471603	-0.00297625198959982	-0.0332395866302995
15	-0.00164020769986069	0.000690959524622384	0.0374007005930302
16	0.000667724182256111	0.00104617350249135	0.0329915128187866
17	0.000739336586192943	0.0000940723806924559	-0.00683833737116107
18	0.0000594329572361774	-0.000275997110187752	-0.0188645318347511
19	-0.000208541236542867	-0.000105816722177099	-0.0025062065155368
20	-0.0000926619341626718	0.0000508928028794324	0.00779811627698491
21	0.0000322477032592796	0.0000462409304805945	0.00382667879954254
22	0.0000402279365235389	-0.00000186228307137437	-0.00219310430039757
23	0.00000416067409539596	-0.0000145545114074683	-0.00268174565188132
24	-0.0000110562864598864	-0.00000368663429621085	0.0000854731663100043
25	-0.00000521560824663324	0.00000337994020867856	0.00135495917257137
26	0.00000160395859467018	0.00000213146548790453	0.000426420287912328
27	0.00000220102789786562	-0.000000414329661371383	-0.000504357875366848
28	0.000000278839908029453	-0.00000078552384298748	-0.000382236664761257
29	-0.000000591196745352355	-0.000000105598575767532	0.000104960981037341
30	-0.000000298614173997283	0.000000214420709005215	0.000224775011534416
31	0.0000000795369377769839	0.0000000976892576597272	0.000030342363364676
32	0.000000123092325477303	-0.0000000380218060085933	-0.000100069891109306
33	0.0000000203609307865673	-0.0000000425829381443885	-0.0000507242042518723
34	-0.0000000314486352244076	-0.00000000109270440932288	0.0000311103581834097
35	-0.0000000196258677200119	0.0000000133051055114868	0.0000360554661463063
36	0.00000000211449058281402	0.00000000454065256214672	-0.0000022926111673303
37	0.00000000757679562481965	-0.00000000256226053487052	-0.0000186363324910682
38	0.00000000320543513371552	-0.00000000221023931478307	-0.00000562959565725795
39	-0.00000000129666284094738	-0.00000000013647209954129	0.00000722001540123284
40	-0.00000000234723807176167	0.000000000402947616789613	0.00000540672188599174

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

January 31 – March 1 a = 31 , b = 60

CN	B0	L0	P
N	°	°	°
0	2.41835020014732	1.46567626074681	3.15437123816504
1	0.652169708005451	1.70052075761883	8.13903534292316
2	6.13605480488188	5.10155714945256	10.1305977354391
3	-1.13735173983488	-2.79227357753891	-14.3779585773261
4	-2.55172537870848	-1.9865483724172	-4.4864396147527
5	0.024490430397128	0.188824379603451	2.58044978897769
6	0.448868827002415	0.353429126592597	1.22885261611164
7	0.102421458716722	0.100053030997406	-0.270343826851128
8	-0.0559812913274933	-0.0462021820034656	-0.579801178826621
9	-0.0413875339059251	-0.0312713821486178	0.0797318351696253
10	-0.00209700400589828	0.00159785919100078	0.276124227628947
11	0.0103038817828309	0.0058531345979995	-0.00567848100720733
12	0.00412295635781221	0.00113813926143796	-0.107733469064343
13	-0.00149080576237145	-0.000741327120254785	-0.0198546234027853
14	-0.00151753235807838	-0.000375718350658518	0.039207210588219
15	-0.0000759184276109381	0.0000344905896589541	0.0169116516977664
16	0.000356862747310146	0.0000686850723294309	-0.0136872772950251
17	0.000131194565567229	0.00000921930320491657	-0.00973942290147636
18	-0.0000480820207617944	-0.00000776866265389061	0.00404548880182943
19	-0.0000493593529284153	-0.00000208425171138041	0.00488943615630632
20	-0.00000370951747773936	0.000000617970061467507	-0.000762539355515375
21	0.0000116774575744774	-0.0000000412931307292015	-0.00225994669793519
22	0.00000475890262437676	-0.000000232374430891929	-0.000113353838087867
23	-0.00000151752261640893	0.0000000827351586060753	0.000964764315671528
24	-0.00000173215615016233	0.000000138653843545185	0.000234442409531138
25	-0.000000162688749688899	0.00000000631334119693022	-0.000377156678528189
26	0.000000400728159318477	-0.0000000493076213305877	-0.000175755166341283
27	0.000000173611987973969	-0.0000000181302610296921	0.000131960009049167
28	-0.0000000486905984880019	0.00000000990249616855993	0.000103445945434323
29	-0.000000062130030130958	0.00000000876251315362211	-0.0000384205158525596
30	-0.00000000764618136190122	-0.0000000000589325467754346	-0.0000534789222261227
31	0.0000000146488150319465	-0.00000000240210994307751	0.00000672880414292109
32	0.00000000663443609439297	-0.000000000733509707155718	0.0000251852064154982
33	-0.00000000318565483327551	0.000000000446998549371745	0.00000190063039834524
34	-0.00000000308721234008616	0.00000000028882489580244	-0.0000109187865390593
35	0.000000000573353672124043	-0.000000000265715828750993	-0.00000298806617036791
36	0.00000000121246500136638	0.0000000000168985445171496	0.00000432860312169628
37	-0.000000000122192187226251	0.000000000073689210877797	0.00000219375566581465
38	-0.000000000397295143905491	-0.0000000000757031198024781	-0.00000152368749235567
39	0.000000000380813893409938	-0.000000000110222868124505	-0.00000128977358499844
40	0.0000000000487612172207233	-0.0000000000121557088861212	0.000000435758455044525

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

February 28 – April 1 a = 59 , b = 91

CN	B0	L0	P
N	°	°	°
0	2.01369610668559	0.721734948922252	-0.575814891013089
1	0.494073151379685	0.40919581769547	2.93311951112478
2	4.15096664194195	2.38820005330254	-0.0816445030210487
3	-3.63040270539762	-4.16579258924208	-18.2158217238777
4	-2.36451509156366	-1.19525585032696	-0.261073637230933
5	0.951569778058817	0.673870708013797	4.80569457757739
6	0.551156856136947	0.208154435321458	0.524812716922164
7	-0.126180143158501	0.0930466606560829	-0.90744592429148
8	-0.121787663779972	-0.0126080067314443	-0.115304366342997
9	0.00228972240833656	-0.0503159547413064	0.410160394960377
10	0.0213711512594012	-0.00884289585364003	-0.0549476993740655
11	0.0074505356243773	0.0122410094805287	-0.222939386436072
12	-0.00162103554398797	0.00480423799650106	0.0304366699327925
13	-0.00330122279329542	-0.00194081235759732	0.0987408221019434
14	-0.00068006317808207	-0.00144807667152863	-0.00692345088606224
15	0.000894924865499983	0.000048298501025346	-0.0403514666955956
16	0.000426455982599591	0.000290138268300284	0.0027361142767927
17	-0.000158338507051752	0.0000911254154472178	0.0171534110355598
18	-0.000148772616280742	-0.0000245879815810738	-0.0018665478087686
19	0.00000545198730106975	-0.0000362154101071229	-0.00768561206596017
20	0.00003807994935561	-0.00000949957716449291	0.00096095289403857
21	0.00000926837979275231	0.0000077791386779274	0.00348193686301172
22	-0.00000680167509751547	0.00000572153836952262	-0.000427853633299321
23	-0.0000046360955485388	-0.00000052220257093051	-0.00156371094737953
24	0.000000355684014939661	-0.00000175844093986603	0.000206289978623308
25	0.00000143195877175915	-0.000000366300786338942	0.000704676681439644
26	0.000000338112727120427	0.000000341750062668639	-0.000106563102784811
27	-0.000000310398084244583	0.000000196770087073156	-0.000322525980539257
28	-0.000000183403651003193	-0.000000019883524208544	0.0000538882700445834
29	0.0000000353217529236551	-0.0000000569905496841653	0.000149124297363215
30	0.0000000597206046995199	-0.0000000160701312758687	-0.000026490610757162
31	0.00000000698844488338196	0.00000000966903847404549	-0.0000690396068213648
32	-0.0000000135999627515743	0.00000000826528551005349	0.0000130287675236625
33	-0.00000000558288325308381	0.000000000151099387293931	0.0000319956479860693
34	0.00000000150906923710699	-0.00000000233305115034361	-0.00000646853827570237
35	0.00000000147102603174364	-0.00000000079856724134113	-0.0000148909004422151
36	0.000000000266543901728461	0.0000000003758325211909	0.00000321554851699226
37	0.000000000394486189067879	0.000000000269407276205383	0.0000069599437662556
38	0.000000000215786009513869	-0.00000000000641719881122552	-0.00000159334447191716
39	-0.000000000828616347146071	-0.0000000000064210585786435	-0.00000326139514156915
40	-0.000000000738061470210158	-0.00000000000331430165397424	0.000000788875774286367

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

March 31 – May 1 a = 90 , b = 121

CN	B0	L0	P
N	°	°	°
0	0.328766879281352	-0.97937889877077	-5.95790109916593
1	1.3459169084475	0.861925920204572	3.95381711414471
2	0.484146868130273	-1.67509852593713	-13.1237989891559
3	-5.07799429140807	-3.93187964718959	-13.1196278886083
4	-0.166743791554891	0.642871844611441	6.5932211859286
5	1.34793703219142	0.499888050136587	3.53552947902789
6	-0.032403887880471	0.0268074629553325	-1.34045160501024
7	-0.236962621589931	0.142714358830791	-0.455531443184981
8	0.0172798436510414	-0.0454351316025469	0.381843018463616
9	0.033289391974604	-0.0634207802505218	-0.202770539039646
10	-0.00102409673826114	0.0172341063314999	-0.164182982925089
11	-0.000649037062634212	0.0158053702769264	0.187613188561848
12	-0.00137199584752632	-0.00468400425289579	0.0607729038231323
13	-0.00136564990400638	-0.00293946772364566	-0.0849744642407407
14	0.000790268412458107	0.000853901686204055	-0.0103243305069
15	0.000534731950042689	0.000319722248601722	0.0299862450984069
16	-0.000272467624017571	-0.000046996278013057	-0.00607162378177311
17	-0.000134696543917109	0.0000271841031065045	-0.00925353881292955
18	0.0000671939897179142	-0.0000400223832702154	0.00683814329286225
19	0.0000249860216879753	-0.0000261556206324428	0.00232844694674956
20	-0.00001092847243275	0.0000213893965695707	-0.00392849336234084
21	-0.00000316156740540443	0.00000840192936087503	-0.000152431247136731
22	0.000000202687551863664	-0.00000673027954270897	0.0016791554095316
23	0.00000012286698242929	-0.0000018156017199275	-0.00037623271047433
24	0.0000000656279733968535	0.00000148674457923951	-0.000570192833911905
25	0.0000000602125257578751	0.000000259670844523928	0.000352739901509457
26	-0.0000000301533896045606	-0.000000185950767035474	0.000139875735856375
27	-0.0000000178705728501452	-0.0000000110078581477935	-0.000210213579831636
28	0.0000000088466362219745	-0.0000000222403162961974	-0.00000449040639150616
29	0.00000000217862043723077	-0.00000000621016250182579	0.0000970339362565263
30	-0.00000000190492799071542	0.00000000229335930706036	-0.0000242257570477768
31	-0.000000000076479109265131	0.00000000019397978982553	-0.0000355112281899436
32	0.000000000248012141711876	-0.000000000860223398239749	0.000021136873216182
33	0.0000000000554106960333608	-0.000000000193950949191434	0.00000923839985310528
34	0.0000000000255622732278635	0.000000000221853761247858	-0.0000125086555199826
35	-0.0000000000567926443121265	-0.000000000105796661071251	-0.000000407878047983907
36	-0.0000000000397145333544153	-0.0000000000381241811037641	0.00000590470579161303
37	-0.0000000000149391802688258	-0.00000000000678925123348352	-0.000001529181284056
38	0.0000000000102667041138107	0.00000000000148513408015064	-0.0000022419334637734
39	0.0000000000589222917648117	-0.00000000000348362200938026	0.00000134403787146709
40	0.0000000000334116586764536	0.00000000000352394752668457	0.000000611746921143489

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

April 30 – June 1 a = 120 , b = 152

CN	B0	L0	P
N	°	°	°
0	-1.4592871353334	-2.35604469908056	-9.02804906415611
1	0.482622684098898	-0.116043584145735	0.128236430964219
2	-3.49364077731553	-4.90273525697888	-19.1800490331223
3	-4.07628549360769	-1.95526145864091	-2.62772942667334
4	2.04761629258151	2.19727198574121	10.5944451759932
5	0.92282796173615	0.179639059088728	-0.0694950088334666
6	-0.510019428436017	0.01918656454769	-2.1254499972626
7	-0.0422161994479901	0.134758189984575	0.422976149468998
8	0.102552638456882	-0.132441435249507	0.031060500325025
9	-0.0158281364158405	-0.0240518169289315	-0.095926517925259
10	-0.00628538081674201	0.0441260639803564	0.299489133667919
11	0.00449983391824959	-0.00561710250336264	-0.0480681186982759
12	-0.00385197560481254	-0.00900696431429607	-0.164166071781345
13	0.000343933506578072	0.00331062638505958	0.0573433343283934
14	0.00152628566208743	0.00066577661756677	0.0421587233350208
15	-0.000668480700589861	-0.000655605324120464	-0.0275731529831143
16	-0.00025724534294068	0.000239317459415085	0.00303352358719242
17	0.000251083810084854	-0.0000336532034427179	0.00558341186983807
18	-0.0000116308196162754	-0.0000854770947841771	-0.00858437284338502
19	-0.0000480717452513917	0.0000676696760287859	0.00219992138574338
20	0.0000191437346435373	0.00000323432751883476	0.00417958013287642
21	0.000000552264918177517	-0.0000232079714058424	-0.00256454049688968
22	-0.00000459779473986327	0.00000662260442309716	-0.000792699475527938
23	0.00000291167117400847	0.00000366952950544105	0.00117181244728351
24	-0.000000130077935899131	-0.00000268612989292853	-0.000320839407312644
25	-0.000000981549957174401	0.000000250260076581162	-0.000210670288321789
26	0.000000461669557300905	0.000000419638845157597	0.000331323254910531
27	0.000000118616142473785	-0.000000295155930326294	-0.000109294238213193
28	-0.000000169044644866672	0.0000000697005188516184	-0.0001280083739556
29	0.0000000312152571582508	0.0000000635583827334838	0.000112192363720895
30	0.0000000276277940609986	-0.0000000598525066326083	0.00000867968289036015
31	-0.0000000195810692878732	0.00000000541026068030404	-0.0000476780158542335
32	0.00000000327501513933747	0.0000000163405192539003	0.0000207902673058886
33	0.00000000309054247421972	-0.00000000777173800707061	0.00000653857462952813
34	-0.00000000248565299001109	-0.00000000126179538393105	-0.000014131517018331
35	0.00000000145137222160322	0.00000000244087532266078	0.0000058374301131532
36	-0.000000000352355060401298	-0.000000000753890497467329	0.0000041321898645575
37	-0.00000000000372135803475236	-0.000000000228332282272483	-0.00000500492756051492
38	-0.000000000236789207369846	0.000000000294062767052282	0.000000488121098670797
39	-0.000000000748138556944124	-0.000000000141661036596835	0.00000189558058729917
40	0.000000000872001011531601	0.0000000000304523837469078	-0.0000011802367796285

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

May 31 – July 1 a = 151 , b = 182

CN	B0	L0	P
N	°	°	°
0	-2.45077523441716	-2.66254056878007	-8.04517821776548
1	-0.00489279430105901	-0.880628803373847	-3.25947210586883
2	-5.97631858445289	-6.28455944675411	-17.6741282101629
3	-0.593330775178141	1.3858735823118	9.79167828784296
4	2.83780566958517	2.32011638640277	7.66538721525069
5	-0.171607197415979	-0.306612377546598	-3.15563152333265
6	-0.330399739915976	0.116673140719194	-0.302855473802908
7	0.158862709810028	0.00848247957929668	0.48765806410752
8	-0.00846353705907786	-0.109730815285844	-0.00272319558606017
9	-0.0212050477822393	0.0298409093465994	0.231816851146875
10	0.0116855498350688	0.0099813479214523	-0.179686751492607
11	-0.00551531404793635	-0.0111986782844479	-0.119185124387109
12	-0.00117752428875484	0.00270896517914041	0.116857309366808
13	0.00237824350061148	0.00103472456076898	0.00324998523651359
14	-0.000786827780028908	-0.000837480516884093	-0.028536481577917
15	-0.000234915426203777	0.000326082299320647	0.00649760233954461
16	0.000301959266507082	-0.0000175301797301271	-0.0037013474912767
17	-0.0000823197498001848	-0.0000851195927491044	0.00322519027522794
18	-0.0000240668665781444	0.0000587082077156594	0.0035910831774423
19	0.0000315769417840982	-0.00000998592187965419	-0.0041527030410553
20	-0.0000123915146317472	-0.0000110449817165663	-0.000058454049962167
21	-0.00000121944197061227	0.00000802892911685892	0.00144390357188564
22	0.0000040630385177084	-0.00000143153061435519	-0.000447597584098656
23	-0.00000192651474737386	-0.00000106999926124622	-0.0000120611059413025
24	-0.0000000716194094869915	0.000000920271249211072	0.00000034785859169487
25	0.000000536263679897252	-0.000000275875048007214	-0.000128834781781403
26	-0.000000258522547944967	-0.0000000662977525905683	0.00014456386539516
27	0.00000000165117131396024	0.000000115293348329885	0.00000550464542895091
28	0.0000000641048709774753	-0.0000000511739403339732	-0.0000693671083750198
29	-0.0000000324601728280513	-0.00000000212816328271269	0.000024698827659805
30	0.00000000404952102223952	0.0000000149619497014911	0.00000662757235715475
31	0.00000000657150152912099	-0.00000000765677815113644	-0.00000571684835010129
32	-0.00000000326160674617834	0.000000000431010746225347	0.00000497501881331145
33	-0.000000000246013258881772	0.00000000162729101714074	-0.00000455512474712184
34	-0.00000000125992724394569	-0.000000000954419284257131	-0.000000604187062501808
35	0.000000000111907782902008	0.000000000208740624423363	0.00000320349462411705
36	-0.00000000143669395331144	-0.000000000302044851211196	-0.00000121965359945245
37	-0.000000000299644389665703	-0.000000000292180939306389	-0.000000534449251016341
38	0.00000000136629365150824	0.000000000152989348531878	0.000000500845884370607
39	-0.000000000430024920194417	-0.000000000156901285889057	-0.000000200954282595266
40	0.00000000137392238435495	0.0000000000794519195348804	0.000000106173297255437

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

June 30 – August 1 a = 181 , b = 213

CN	B0	L0	P
N	°	°	°
0	-2.1714271257364	-1.99771032873802	-3.19076066814665
1	-0.618285596550447	-1.26742976018524	-2.67853416857736
2	-4.83881267185838	-4.64404301678125	-5.39095320836272
3	3.40204807375555	4.49834281336954	18.7571765595105
4	2.40460293523613	1.86014528488215	2.24355612285532
5	-0.847627004717308	-0.762502531534935	-3.56629992416093
6	-0.0359590281045015	0.115026955321316	0.654313760230422
7	0.0816191417703112	-0.0572266445595018	0.0317251186488201
8	-0.0801511578558729	-0.0836063239330108	-0.162006836631385
9	0.0145160121531279	0.032362623628367	-0.26405683474246
10	0.00100049400446146	-0.000476327301607394	-0.0688339737552823
11	-0.00772294739879615	-0.00311980974170647	0.178816484606961
12	0.0050965058223249	0.00321181915952467	-0.0149775384290461
13	0.0000713480922135452	-0.000683973206602673	-0.0377398611914884
14	-0.000918376881308526	-0.000122544638475636	0.0211823712346719
15	0.000558077735116099	0.000177803511608999	0.00566007383975929
16	-0.000109386967471275	-0.000129904994496055	-0.00133421730597124
17	-0.0000789271901498327	0.0000235280076312394	-0.00506204791102631
18	0.0000666579372598949	0.0000115638098415195	-0.000785912962293704
19	-0.0000262313699463154	-0.0000120154127059074	0.00294777106636515
20	-0.0000029024058077498	0.00000581496125121686	-0.000825929563371004
21	0.00000874975357545122	-0.00000037354440620299	-0.000807702306578204
22	-0.00000412883998489679	-0.000000951522529079037	0.00045563869485358
23	0.00000037076920613795	0.000000707790034048573	0.000175206410432288
24	0.000000862138653045039	-0.000000262033546115916	-0.0000353603546381436
25	-0.000000603629073973513	-0.0000000212175341271101	-0.000112115794026922
26	0.000000140850483191696	0.0000000742294756285808	0.0000119737001031574
27	0.000000064002265100575	-0.0000000437750952099273	0.0000640116150711889
28	-0.0000000783989536949082	0.0000000102579180969552	-0.0000266862921506608
29	0.0000000310722979364495	0.00000000495761373283725	-0.0000185802574286618
30	0.00000000373156998632218	-0.00000000554498844867103	0.0000107860130554591
31	-0.00000000802540233172758	0.00000000240320522390211	0.00000452046051225347
32	0.00000000628258900025903	-0.00000000016942377578114	-0.00000177208582507933
33	0.000000000925604123151169	-0.00000000058286259513226	-0.00000288259480557926
34	-0.00000000118678285153608	0.000000000440327028783839	0.00000098198118618185
35	0.000000000123725541785502	-0.000000000093885359096381	0.00000152613371094726
36	-0.000000000470448610030593	-0.0000000000709634159320125	-0.000000807671419682715
37	-0.00000000159155503645123	0.0000000000251035402078357	-0.000000425245215475886
38	-0.000000000898248112393765	0.0000000000315040490295667	0.000000300719820860295
39	-0.000000000205349849788805	0.0000000000378357149267681	0.000000120378358403651
40	-0.000000000471899657288088	-0.0000000000776768935250651	-0.0000000769360299553515

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

July 31 – September 1 a = 212 , b = 244

CN	B0	L0	P
N	°	°	°
0	-0.157582912843999	-0.125946088126826	4.60376421175496
1	-0.810375819216399	-1.56117638751901	-2.39084785528387
2	-0.355546425821603	-0.652461527156619	11.7956184439938
3	5.75926216936554	5.91648795322339	15.7341464135368
4	0.131878584164497	-0.00956920699806933	-5.97060144139036
5	-1.03210401572131	-0.859488463094817	-2.92315178991133
6	0.0169470510811235	0.177871858989504	0.17649803702197
7	-0.0862132132660696	-0.112300395641889	-0.306170470861012
8	0.00404827490038774	-0.0426958382517237	-0.0610956882082295
9	0.0219507413522753	0.0281255394997194	0.321502163364737
10	-0.00797594623527461	-0.00146110576965146	0.189160835891347
11	0.00627929362364169	0.00133255240052994	-0.102202260960755
12	0.00157783855676859	0.0014022977314648	-0.0530724460126001
13	-0.00149815589810981	-0.000810507671037727	0.00741725956148811
14	0.000194995324809895	0.0000456441441075472	-0.00904989241410795
15	-0.000195109236133569	0.0000385001301795083	-0.00202964615318858
16	-0.0000567413604639574	-0.0000634766776657611	0.00950103687113637
17	0.0000690603005192445	0.0000160495775683949	0.0044220916358164
18	-0.000019746990160157	0.0000023128610456359	-0.00247461142205157
19	0.0000070073706208882	-0.00000333627905937878	-0.00138452217132844
20	0.00000564888803869501	0.00000231654482805631	0.000155482826711857
21	-0.00000340253505760042	-0.0000000828828585240497	-0.000333414426632803
22	0.000000718972835438479	-0.000000317460906863604	-0.000100240166993435
23	-0.000000235333620847142	0.000000190420349647857	0.000326234919068884
24	-0.000000297177244833499	-0.0000000504490797887067	0.000135297398765741
25	0.000000181412388615773	-0.0000000254330339243115	-0.0000782931367988626
26	-0.0000000397787063371825	0.0000000193396919274674	-0.0000361995802705522
27	0.00000000176468325161291	-0.00000000810191954966404	0.00000354723476226116
28	0.0000000177145133318284	-0.000000000166717212321042	-0.0000143212063252775
29	-0.00000000922314516332701	0.000000000237064870202035	-0.00000382575391605002
30	0.0000000009579906848126	-0.000000000127507327931713	0.0000116948924137342
31	-0.000000000137722531929353	0.000000000441319223638288	0.00000454221038734181
32	0.000000000238581905203412	-0.000000000114245381594621	-0.00000264368457893285
33	0.00000000012914254060134	-0.000000000320939806968628	-0.000000970827030172297
34	-0.000000000539305837928169	0.000000000415492904041207	0.0000000920286464314224
35	-0.000000000299192517756159	-0.000000000140878736798175	-0.000000633938525481477
36	-0.000000000598187588937995	0.000000000102400228127699	-0.000000144218043504674
37	-0.000000000194613624095605	0.000000000250527693662295	0.000000439266943924974
38	0.000000000126659296408342	-0.00000000034905471151291	0.000000155641926651407
39	0.000000000735343989389273	0.000000000169519125428434	-0.0000000905509982060773
40	-0.0000000000595341240138482	0.0000000000961231067618195	-0.000000024163851046084

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

August 31 – October 1 a = 243 , b = 274

CN N	B0 °	L0 °	P °
0	1.72378862337923	1.42961463161938	8.02309690140433
1	-1.16748678240132	-1.86883708939916	-1.19124153070421
2	4.0330488143933	2.81373382779709	20.6644832807184
3	4.10226426369462	4.39647077509685	3.9125706324833
4	-1.76140413725407	-1.45302831670381	-9.22116220628416
5	-0.785320854291126	-0.372922190003514	-1.12550524246493
6	-0.00464728826806812	0.21484007591439	0.504476700981022
7	0.0326275616972337	-0.153025647275335	0.246995867967734
8	0.0560493152722894	-0.0288647413961873	0.475379229688066
9	-0.00457952830767926	0.018684780677872	-0.0119005839574936
10	-0.000977094700789154	0.00650092411884184	-0.256594725117224
11	0.00340731929386344	0.00469587372197944	-0.0354154283110025
12	-0.00134896883542199	-0.00121159542231264	0.0532081393470771
13	-0.00067697203377806	-0.000999640191716618	0.0222421842388966
14	-0.000234700653927063	0.000135967209362636	0.010015106822193
15	0.0000416911487394665	-0.0000194735651422439	-0.00498703272603904
16	0.000125399793540374	-0.00000765143931372421	-0.0108470720766202
17	0.0000040470107788149	-0.000000894611497097035	-0.0013975778724045
18	-0.00000678339464241327	-0.00000159495650899451	0.00328113578141288
19	-0.000000656391956915197	0.00000870496804036281	0.00147751455542789
20	-0.00000176017132660374	0.00000109545938155439	0.000079535028020167
21	-0.0000000787058039549609	-0.00000145980380783008	-0.000466715026247115
22	-0.000000362677474653735	-0.000000341760404650788	-0.000505477690844089
23	-0.00000000901920254338832	-0.0000000993415692508094	-0.0000230969725868927
24	0.000000190699185831027	0.0000000770034814057159	0.000212806762331486
25	0.0000000289282598635199	0.0000000277335340902954	0.0000890873400000205
26	-0.00000000483327970266453	-0.0000000172156429139249	-0.0000195068535192361
27	-0.00000000835675154963586	0.00000000505711717630839	-0.0000388548252354675
28	-0.00000000472216046263123	0.00000000389221901325942	-0.0000237057334026788
29	0.000000000875890571513705	-0.000000000182714917939846	0.00000365386798209842
30	-0.00000000104338494173026	-0.000000000614968114324658	0.0000138065943259022
31	-0.00000000147637855556871	-0.000000000416885603399392	0.00000480120364919568
32	0.000000000334644345088396	-0.000000000083634439712764	-0.00000258693545661968
33	0.000000000935871101289219	0.0000000000254371441110293	-0.00000292279065200257
34	0.000000000724227894800175	0.0000000000753418401770879	-0.00000100820615794634
35	0.000000000958638742743337	-0.000000000105677591979206	0.000000589769715713608
36	-0.000000000346206072942594	0.0000000000326673769172287	0.000000882964698795843
37	-0.00000000128334949289922	0.000000000250308212751595	0.000000213252685127597
38	-0.000000000483140536994205	-0.0000000000768591069015125	-0.00000024719809866409
39	-0.0000000000387457700879036	0.0000000000147479107743889	-0.000000202834180886553
40	0.0000000000467236100332963	0.0000000000106828990485795	-0.0000000292911572358406

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

September 30 – November 1 a = 273 , b = 305

CN	B0	L0	P
N	°	°	°
0	2.57318822307527	2.35068523840969	7.21237689779033
1	-0.185686301337806	-0.589540181775716	1.40831154018562
2	5.63746683475937	4.50402277999722	17.3357708651598
3	0.411563461264218	1.55772196847449	-9.42537731881309
4	-3.03326817062027	-2.34620487168038	-9.26537394599949
5	-0.30629983892293	0.143696255883803	1.63126383418634
6	0.342011674341306	0.162446012785383	1.28634028308312
7	0.164184862981373	-0.236033368140614	0.389585399238482
8	-0.00540693201961717	0.0069433454381852	-0.302578762675934
9	-0.0351884112767109	0.0595389750232644	-0.376077882830288
10	0.00401593810920981	0.0168487576006062	0.175748383184899
11	0.00287878958548043	-0.00787613830411608	0.18261533702957
12	-0.00262276740947076	-0.0073712686271883	-0.0366100796810361
13	-0.00083988843864502	0.000651425083741683	-0.0643764590272892
14	0.000671572335839176	0.0013085708315762	-0.0153456955142714
15	0.00054223767635246	-0.0000785515301166686	0.0202248313652018
16	-0.0000829117110061022	-0.000188515420904313	0.015800895297709
17	-0.000158946475208739	0.0000401906413236897	-0.00546325834596628
18	-0.00000704958958901094	0.0000671387980612754	-0.00792779940693743
19	0.0000277838021756441	-0.0000111310623533111	0.000201375537192877
20	0.00000453676358508612	-0.0000253617807724433	0.00304513923532754
21	-0.00000488098834841094	-0.000000661827270971629	0.00104458456243307
22	-0.000000576422528195349	0.00000638530238221723	-0.000942653618609094
23	0.00000148397974197171	0.00000130076685456641	-0.000823557245464289
24	0.000000102193347537577	-0.00000123604147984694	0.000177687038804026
25	-0.000000478945738932772	-0.000000415905235839592	0.000411578495157158
26	-0.0000000999384092549553	0.000000262553857392557	0.0000476348592067373
27	0.000000115940326063493	0.0000000940571227240239	-0.000156848378138685
28	0.000000047304083213177	-0.0000000738562230404051	-0.0000750065511098426
29	-0.000000020754135197452	-0.0000000294914432824242	0.0000436745013196686
30	-0.0000000135963675844797	0.0000000202718853852772	0.0000489999364508908
31	0.00000000370413828188085	0.0000000113688194784066	-0.0000039620493659728
32	0.00000000251517881317934	-0.00000000410541211184389	-0.0000230222285843891
33	-0.000000000446615352923477	-0.00000000373222233714856	-0.00000560933221975452
34	-0.000000000772622443239989	0.00000000062604079680552	0.00000824078664172861
35	0.000000000134439513023859	0.0000000010393491593517	0.00000527513280457813
36	0.000000000675039124435746	-0.000000000138783195864341	-0.00000191834517475287
37	-0.000000000348047222441809	-0.000000000213825696870429	-0.00000303156015754123
38	0.0000000000738006162436604	-0.0000000000474154806809531	-0.000000128819976983068
39	-0.000000000244424066518335	0.000000000119482812362103	0.00000132049299523337
40	-0.000000000345995590944375	-0.0000000000460435512047681	0.000000489727350306816

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

October 31 – December 1 a = 304 , b = 335

CN N	B0 °	L0 °	P °
0	1.86805731330584	2.11542326562816	2.00530756662616
1	0.845413408765433	0.373815029769458	4.78945507167058
2	4.37757241821892	4.14919240586941	6.1957281466
3	-3.31083470976617	-2.02624199628456	-17.3177164781928
4	-2.28079009533928	-1.75605141040365	-3.4399371243068
5	0.646436658807843	0.738544262198808	3.57716991471929
6	0.484222665022174	-0.0258793313022696	1.09991572847349
7	-0.0204112588913945	-0.205948719133941	-0.507837960017241
8	-0.100352929053811	0.070812950046761	-0.386677545367155
9	0.000923848628352115	0.0620595624441346	0.365432312311322
10	0.0198541928203906	-0.0123250460780407	0.163001139452118
11	-0.00342027512351133	-0.0179846450773931	-0.183521299156623
12	-0.00457035806433166	0.00137218875386299	-0.0856752681969744
13	0.00141818564068527	0.00427092681285179	0.0592735483696056
14	0.00141494884334779	-0.000304865846358818	0.0421631574671775
15	-0.000380508943313968	-0.000906142187221079	-0.0203718266287804
16	-0.000430249624645752	0.000145244971655804	-0.0188776383828982
17	0.0000839514319096534	0.000217541676820688	0.00843158884500354
18	0.000114550859195875	-0.0000617247973796668	0.00867373910590564
19	-0.0000186584422705444	-0.0000619850200792	-0.00316294761988335
20	-0.0000286309464122521	0.0000203002786614242	-0.00411824598364831
21	0.00000520521126862288	0.0000181107426274724	0.00102508747625485
22	0.00000734074389973438	-0.00000563766729203338	0.00191540881033451
23	-0.0000016643156146051	-0.00000499094772450995	-0.000311083361472077
24	-0.00000199652148710153	0.00000153391319653528	-0.000875275476557844
25	0.000000505450923022595	0.00000130205377880944	0.000078771717534271
26	0.000000560915233291195	-0.000000453341042569999	0.000400804625647894
27	-0.000000141516284447875	-0.000000337013636419158	-0.00000475358517150194
28	-0.000000156403984619891	0.000000142374672878861	-0.000182918742348425
29	0.0000000389514717437497	0.0000000903637223334342	-0.0000124105771269698
30	0.0000000419054476426207	-0.0000000444122905169774	0.0000824554339284742
31	-0.0000000108381936109477	-0.000000025078145834412	0.0000120499281831847
32	-0.0000000113047576881392	0.0000000133892870579523	-0.000036794280097393
33	0.00000000338084021394407	0.00000000699026902014441	-0.00000836631549940382
34	0.00000000346154364854732	-0.00000000400130337639874	0.0000162842615483575
35	-0.00000000142754853339932	-0.00000000193762781166256	0.0000051318562143626
36	-0.0000000006196384434958	0.00000000120523621851362	-0.00000712321842938745
37	-0.000000000108540730273467	0.00000000050060721552084	-0.00000293385351354779
38	-0.000000000135696880009624	-0.000000000387108885910538	0.00000306895895582582
39	0.000000000754685066612874	-0.000000000129017625068817	0.00000160119495520178
40	0.0000000000253536949860864	0.000000000114345766279501	-0.00000129944810678624

2027 Year Coefficient Tables for Computerized Celestial Position Calculations

Sub-Earth Lunar Latitude(B0) , Longitude(L0) , Orientation of the Rotational Axis "North Pole Side"(P)

November 30 – December 32 a = 334 , b = 366

CN N	B0 °	L0 °	P °
0	0.250312454801077	0.917686904499156	-4.25767135295288
1	0.811590441293207	0.797725184706131	2.91877699395415
2	0.599770477752469	1.31800103221251	-7.77838321891013
3	-5.29321323640022	-4.62135502354684	-16.7886148590641
4	-0.408359176865113	-0.551257688992732	4.13135759302798
5	1.49784989833139	1.26103162176356	4.92448616743706
6	0.148370318175724	-0.2000415137852	-0.457728402614687
7	-0.302115108013167	-0.204230174278805	-1.04479896510029
8	-0.0360651360805723	0.1194395245291	0.303182971806315
9	0.0756612487646487	0.0367450563243775	0.171578619310272
10	0.000723682804101029	-0.0371627123256638	-0.32668828605444
11	-0.0208538752110126	-0.00708792113026557	-0.0191021632566971
12	0.00269772371351615	0.0105616780467927	0.183840137732871
13	0.00596838234827783	0.000861223469048212	0.00515428097758115
14	-0.00137380302494453	-0.00286301591078766	-0.0769752488187275
15	-0.00171214559801998	0.000140099389995798	0.00466552635080024
16	0.000534955625748618	0.000743640771772034	0.0289518798900041
17	0.000472053974105806	-0.000149293126304687	-0.00876999529100506
18	-0.000192914185755306	-0.000186664810225579	-0.0112015298172718
19	-0.000123713674907277	0.0000713355573434896	0.00690265316773579
20	0.0000670370485236732	0.0000442037514300017	0.00451639565836267
21	0.0000308534040479092	-0.0000273980737711274	-0.00396765269059091
22	-0.0000226472340948565	-0.00000932785760839148	-0.00163711820848684
23	-0.00000723709854722341	0.0000094019920339	0.00201022331925654
24	0.00000743601890973895	0.00000150894224459692	0.000422158234507004
25	0.00000153276391704222	-0.00000299800125075432	-0.000985909805879718
26	-0.00000237320410474049	-0.0000000452146183312784	-0.0000108558149373193
27	-0.000000258768423618406	0.000000901962656301981	0.000475628218956959
28	0.000000737546964021455	-0.000000109474724276293	-0.0000775282521876717
29	0.000000015096335299156	-0.000000256531582786903	-0.000218883163451077
30	-0.000000223373814450507	0.0000000682227643869599	0.0000709082914395873
31	0.0000000141342252316844	0.0000000684181179234665	0.0000932168124455145
32	0.0000000661098515876234	-0.0000000301280391853729	-0.000048335156057546
33	-0.00000000950427329527202	-0.0000000167170461908097	-0.0000360933212887235
34	-0.0000000196602066914185	0.0000000115194196383871	0.0000292588828855132
35	0.00000000431220004047502	0.00000000354182647440602	0.0000123226872768852
36	0.00000000623643733859548	-0.00000000404577296038879	-0.0000163049257483724
37	-0.00000000165508901417822	-0.000000000633694578965308	-0.00000327098340538039
38	-0.00000000210913239774029	0.00000000132187411265542	0.00000846127985868226
39	0.000000000400045443356125	0.000000000852299696793196	0.000000207449713527285
40	0.000000000908381311072557	-0.000000000391813464945702	-0.00000412579662553633