

36943-15-T

**A TABULATION OF FOURIER TRANSFORMS  
OF TRIGONOMETRIC FUNCTIONS  
AND LEGENDRE POLYNOMIALS**

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September 1960

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## A TABULATION OF FOURIER TRANSFORMS OF TRIGONOMETRIC FUNCTIONS AND LEGENDRE POLYNOMIALS

### ABSTRACT

This report presents tables of Fourier transforms of functions which are trigonometric functions or Legendre polynomials on the interval  $(-1, 1)$  and are zero elsewhere.

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This report presents tables of Fourier transforms of functions which are trigonometric functions or Legendre polynomials on the interval  $(-1, 1)$  and are zero elsewhere. These transforms are useful in the synthesis of electrical wave filters, the analysis of transient phenomena, etc. A more limited tabulation of these transforms is given in Reference 1.

The terminology used in electrical engineering has been adopted: the function domain is called time and the transform domain is called frequency. The time functions whose transforms are considered as defined, for  $n = 0, 1, \dots$ , by

$$\left. \begin{aligned} \alpha_n(t) &= \cos n\pi t \\ \beta_n(t) &= \sin n\pi t \\ \theta_n(t) &= \frac{1}{2^n n!} \frac{d^n (t^2 - 1)^n}{dt^n} \end{aligned} \right\} \text{ for } |t| \leq 1$$

and

$$\alpha_n(t) = \beta_n(t) = \theta_n(t) = 0 \quad \text{for } |t| > 1$$

Thus,  $\theta_n(t)$  coincides with the  $n$ -th degree Legendre polynomial on the interval  $(-1, 1)$ . If the Fourier transform of a time function  $f(t)$  is taken as

$$F(\omega) = \int_{-\infty}^{\infty} f(t)e^{-j\omega t} dt$$

the transforms of the functions  $\alpha_n(t)$ ,  $\beta_n(t)$ , and  $\theta_n(t)$  are, respectively,

$$\begin{aligned} A_n(\omega) &= \int_{-1}^1 e^{-j\omega t} \cos n\pi t \, dt \\ &= (-1)^{n+1} \frac{2\omega \sin \omega}{(n\pi)^2 - \omega^2} \end{aligned}$$

$$\begin{aligned} B_n(\omega) &= \int_{-1}^1 e^{-j\omega t} \sin n\pi t \, dt \\ &= (-1)^n j \frac{2\pi n \sin \omega}{(n\pi)^2 - \omega^2} \end{aligned}$$

$$\Theta_n(\omega) = \int_{-1}^1 e^{-j\omega t} \theta_n(t) \, dt$$

The functions  $A_n(\omega)$  and  $B_n(\omega)$  can be evaluated from the formulas given above. The functions  $\Theta_n$  can be obtained by the recursion relation

$$\Theta_n = \frac{2n-1}{j\omega} \Theta_{n-1} + \Theta_{n-2}$$

and the formulas

$$\Theta_0 = \frac{2 \sin \omega}{\omega}$$

$$\Theta_1 = 2j \left[ \frac{\cos \omega}{\omega} - \frac{\sin \omega}{\omega^2} \right]$$

or from the expansion

$$\Theta_n = (-j)^{n+1} 2^{n+1} \sum_{k=0}^{\infty} \frac{(-1)^k (n+k)! \omega^{2k+n}}{k! (2n+2k+1)!} = 2(-j)^n \sqrt{\frac{\pi}{2\omega}} J_{n+(1/2)}(\omega)$$

The functions  $\sqrt{\frac{\pi}{2\omega}} J_{n+(1/2)}(\omega)$  are tabulated in Reference 2.

Table I gives explicit expressions for  $\theta_n(t)$  and  $\Theta_n(\omega)$  for  $n = 0, 1, \dots, 7$  and graphs of these functions. Table II gives expressions for  $\alpha_n(t)$  and  $A_n(\omega)$  for  $n = 0, 1, 2, 3$  and for  $\beta_n(t)$  and  $B_n(\omega)$  for  $n = 1, 2, 3, 4$ . Table III gives values of  $\Theta_n(\omega)$  for  $n = 0, 1, \dots, 7$  and  $\omega = 0^{\circ}(10^{\circ}) 4500^{\circ}$ . Table IV gives values of  $A_n(\omega)$  and  $B_{n+1}(\omega)$  for  $n = 1, 2, 3, 4$  and

$\omega = 0^{\circ}(10^{\circ}) 4500^{\circ}$ . The values in Tables III and IV were calculated from the expressions given in the preceding paragraph and are expected to be accurate to ten decimal places.

Tables I and II and the recursion relation given above were extracted from Reference 3.

TABLE 1. GRAPHS AND FORMULAS OF LEGENDRE POLYNOMIALS AND THEIR TRANSFORMS

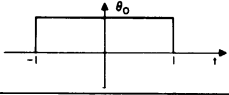
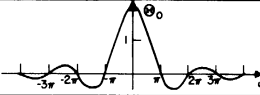
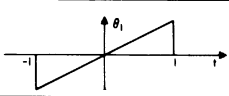
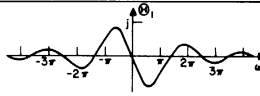
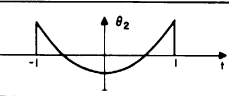
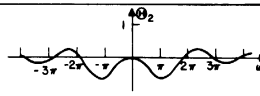
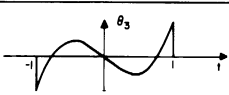
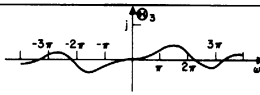
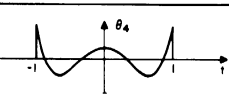
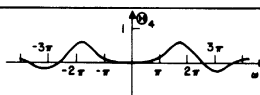
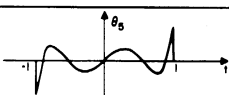
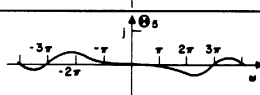
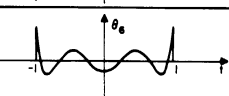
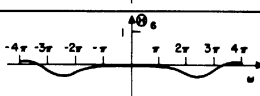
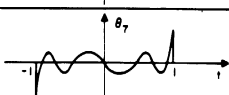
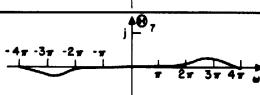
TIME DOMAIN		FREQUENCY DOMAIN	
	$\theta_0 = 1$	$\Theta_0 = \frac{2 \sin \omega}{\omega}$	
	$\theta_1 = 1$	$\Theta_1 = j \left( -\frac{2 \sin \omega}{\omega^2} + \frac{2 \cos \omega}{\omega} \right)$	
	$\theta_2 = \frac{1}{2} (3t^2 - 1)$	$\Theta_2 = -\frac{6 \sin \omega}{\omega^3} + \frac{6 \cos \omega}{\omega^2} + \frac{2 \sin \omega}{\omega}$	
	$\theta_3 = \frac{1}{2} (5t^3 - 3t)$	$\Theta_3 = j \left( \frac{30 \sin \omega}{\omega^4} - \frac{30 \cos \omega}{\omega^3} - \frac{12 \sin \omega}{\omega^2} + \frac{2 \cos \omega}{\omega} \right)$	
	$\theta_4 = \frac{1}{8} (35t^4 - 30t^2 + 3)$	$\Theta_4 = \frac{210 \sin \omega}{\omega^5} - \frac{210 \cos \omega}{\omega^4} - \frac{90 \sin \omega}{\omega^3} + \frac{20 \cos \omega}{\omega^2} + \frac{2 \sin \omega}{\omega}$	
	$\theta_5 = \frac{1}{8} (63t^5 - 70t^3 + 15t)$	$\Theta_5 = j \left( \frac{-1890 \sin \omega}{\omega^6} + \frac{1890 \cos \omega}{\omega^5} + \frac{840 \sin \omega}{\omega^4} - \frac{210 \cos \omega}{\omega^3} - \frac{30 \sin \omega}{\omega^2} + \frac{2 \cos \omega}{\omega} \right)$	
	$\theta_6 = \frac{1}{16} (231t^6 - 315t^4 + 105t^2 - 5)$	$\Theta_6 = \frac{-20790 \sin \omega}{\omega^7} + \frac{20790 \cos \omega}{\omega^6} + \frac{9450 \sin \omega}{\omega^5} - \frac{2520 \cos \omega}{\omega^4} - \frac{420 \sin \omega}{\omega^3} + \frac{42 \cos \omega}{\omega^2} + \frac{2 \sin \omega}{\omega}$	
	$\theta_7 = \frac{1}{16} (429t^7 - 693t^5 + 315t^3 - 35t)$	$\Theta_7 = j \left( \frac{270270 \sin \omega}{\omega^8} - \frac{270270 \cos \omega}{\omega^7} - \frac{124740 \sin \omega}{\omega^6} + \frac{34650 \cos \omega}{\omega^5} + \frac{6300 \sin \omega}{\omega^4} - \frac{756 \cos \omega}{\omega^3} - \frac{56 \sin \omega}{\omega^2} + \frac{2 \cos \omega}{\omega} \right)$	

TABLE 2. GRAPHS AND FORMULAS OF TRIGONOMETRIC FUNCTIONS AND THEIR FOURIER TRANSFORMS

TIME DOMAIN	FREQUENCY DOMAIN		
	$a_0(t) = 1$	$A_0(\omega) = \frac{2 \text{SIN } \omega}{\omega}$	
	$\beta_1(t) = \text{SIN } \pi t$	$B_1(\omega) = -j \frac{2\pi \text{SIN } \omega}{\pi^2 - \omega^2}$	
	$a_1(t) = \text{COS } \pi t$	$A_1(\omega) = + \frac{2\omega \text{SIN } \omega}{\pi^2 - \omega^2}$	
	$\beta_2(t) = \text{SIN } 2\pi t$	$B_2(\omega) = +j \frac{4\pi \text{SIN } \omega}{4\pi^2 - \omega^2}$	
	$a_2(t) = \text{COS } 2\pi t$	$A_2(\omega) = -\frac{2\omega \text{SIN } \omega}{4\pi^2 - \omega^2}$	
	$\beta_3(t) = \text{SIN } 3\pi t$	$B_3(\omega) = -j \frac{6\pi \text{SIN } \omega}{9\pi^2 - \omega^2}$	
	$a_3(t) = \text{COS } 3\pi t$	$A_3(\omega) = + \frac{2\omega \text{SIN } \omega}{9\pi^2 - \omega^2}$	
	$\beta_4(t) = \text{SIN } 4\pi t$	$B_4(\omega) = +j \frac{8\pi \text{SIN } \omega}{16\pi^2 - \omega^2}$	

TABLE 3. TABULATION OF FOURIER TRANSFORMS OF LEGENDRE POLYNOMIALS

$\omega$	$\theta_0$	$\theta_1/j$	$\theta_2$	$\theta_3/j$	$\theta_4$	$\theta_5/j$	$\theta_6$	$\theta_7/j$
0	2.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
10	1.9898615401	-.01160012304	-.0040527358	.0001010969	.0000019611	-.0000000311	-.0000000000	.0000000000
20	1.9596310721	-.02298873706	-.0161053431	.0008046761	.0000312479	-.0000009924	-.0000000004	.0000000000
30	1.9098593171	-.03395892386	-.03158436968	.0026928333	.0001570997	-.0000074923	-.0000003022	.0000000106
40	1.8414508579	-.0431283830	-.0627513016	.00633076012	.0004917109	-.0000331142	-.0000016859	.0000000786
50	1.7556445404	-.0386597635	-.0961313220	.0121321397	.0011855340	-.0000945577	-.0000006374	.0000003718
60	1.6539868663	-.0245112830	-.1351063525	.0202402923	.0024209223	-.0002322625	-.0000188159	.0000013193
70	1.5382972489	-.0992192458	-.1786584684	.0319504832	.0044043188	-.0004943721	-.0000468212	.0000038361
80	1.4106531970	-.7615589153	-.2256499918	.0464727116	.0073572518	-.0009469193	-.0001027389	.0000096375
90	1.2732393447	-.8103694691	-.2748341081	.0642546674	.0115064342	-.0016723440	-.0002046856	.0000444853
100	1.1285065576	-.8455727830	-.3243259946	.0822716242	.0170732977	-.0027688871	-.0003777124	.0000850586
110	.9789167493	-.8661856334	-.3745954616	.1093934110	.0242853138	-.0043490373	-.0005548345	.0000850586
120	.8269933431	-.8723250647	-.4225202711	.1363677808	.03232554633	-.0065370461	-.0010778422	.0001531666
130	.6752478002	-.8642068394	-.4674152812	.1658286564	.0419221883	-.0094955618	-.0016978138	.0002621947
140	.5261288165	-.8423370549	-.5080645729	.1973042218	.051703865	-.0132714692	-.0025752626	.0004297583
150	.3819718634	-.8074971790	-.5433517430	.2302282099	.07222331455	-.0180910528	-.0037798591	.0006783449
160	.24495338840	-.7607229134	-.5722875970	.26395540857	.0893635636	-.0240546350	-.0053896846	.0010358673
170	.1170506788	-.7032774450	-.5940345463	.2977717429	.1084798859	-.0312808612	-.0074899917	.0015361025
180	.0000000000	-.6366197724	-.6079271019	.3309262606	.1294326006	-.0398708268	-.0101714610	.0022189689
190	-.1047295547	-.5623689173	-.6134879572	.3626382072	.1520039972	-.0499022537	-.0135279702	.0031306030
200	-.1959631072	-.4822649172	-.6106392726	.3921249321	.1759093551	-.0614239311	-.0176539056	.0043231972
210	-.2728974653	-.3981275714	-.5987088940	.4186222895	.2008007267	-.0744506331	-.02264410718	.0058545675
220	-.3348092469	-.3118139556	-.5784313876	.4436059818	.22627276973	-.0889587234	-.0285752729	.0077874264
230	-.3816618566	-.2251757423	-.5499438529	.4598125559	.2518701985	-.1048826365	-.0355326561	.0101883460
240	-.4134966716	-.1400173558	-.5137767159	.4732594240	.2770981864	-.1221124694	-.0433759255	.0131264074
250	-.4307233697	-.058059609	-.4706397081	.4812574180	.3014328214	-.1404324071	-.0527505457	.0166715418
260	-.4340409837	.0191157735	-.4214034474	.4834337584	.3283362401	-.1598213552	-.0630810644	.0208925846
270	-.4244131816	.0900632743	-.367071204	.4795441957	.3452599519	-.1798337403	-.0745676879	.0258550726
280	-.4030380563	.1535392679	-.3087828559	.4694670255	.3636791237	-.2003026529	-.0871832442	.0316188300
290	-.3711332497	.2085079432	-.2477274724	.4532275749	.3790869773	-.2208439933	-.1008706649	.0382353995
300	-.3307973373	.2541635694	-.1851723389	.4309901278	.3910190188	-.2411220569	-.1155411087	.0457453851
310	-.2831684743	.2899432025	-.1224021342	.4030581331	.3990646705	-.2607563584	-.1310728359	.0541757835
320	-.2301813572	.3155332729	-.0605933120	.3698687513	.4028799035	-.2793495709	-.1473109266	.0635373879
330	-.1736235743	.3308699976	-.0012830795	.3319838618	.4021984934	-.2964963981	-.1640679150	.0738222537
340	-.1152724160	.3361337216	.0546603217	.2900777549	.3968415499	-.3117931672	-.1811253859	.0850020159
350	-.0568531869	.3317374383	.1060652856	.2449218209	.3867250186	-.3248479008	-.1982365547	.0970250510
360	.0000000000	.3183098862	.1519817755	.1973666321	.3718649011	-.3352906025	-.2151298233	.1098160696
370	.0537800416	.2966737469	.1916029086	.1483218860	.3523800030	-.3427934764	-.2315133709	.1233747214
380	.1031384775	.2678195867	.2242826774	.0987347073	.3284920831	-.3470507918	-.2470800144	.1372758828
390	.1469122552	.2328762795	.2495493933	.0495669587	.3005233492	-.3477881079	-.2615143385	.1516674861
400	.1841450858	.1930787270	.2671145571	.0017720174	.2688913166	-.3448705784	-.2744984704	.1662765463
410	.2141029927	.1497337474	.2768769814	-.0437282340	.2341012120	-.3381600776	-.2857198491	.1809058716
420	.2362838123	.0577780931	.2789221176	.0860656820	.1967354452	-.3276109112	-.2948787163	.1953390338
430	.2504205638	.0577780931	.2735166630	.1244469117	.1574422916	-.3132539103	-.3059258404	.2093430166
440	.2564787631	.0118260562	.2610986649	.15811722456	.11920208871	-.2951987463	-.3059258404	.225720489
450	.245679089	-.0324227788	.2422633197	.1866523982	.0759060695	-.2736343647	-.3073362086	.2350720519
460	.243375125	-.0738148836	.2177452432	-.2094223124	.0351515422	-.2488273452	-.3057709008	.2462856276
470	.2291081754	-.113181977	.1883971355	-.2261518226	-.0045875767	-.20211185480	-.3010998220	.2560574886
480	.2067483358	-.1440449720	.1551660298	-.2366528744	-.0425734627	-.1309174537	-.2932524787	.2641402165
490	.1791474021	-.1712702538	.1190674264	-.2408831212	-.0780980008	-.1586949194	-.2822165402	.2703002166
500	.1473160686	-.1924456520	.0811581336	-.2369436173	-.1105100825	-.1249741136	-.2680408461	.2743237261



TABLE 3. (Continued)

$\omega$	$\theta_0$	$\theta_1/j$	$\theta_2$	$\theta_3/j$	$\theta_4$	$\theta_5/j$	$\theta_6$	$\theta_7/j$
500	.1473160686	-.1924456320	.0811581336	-.2389458173	.1105100825	-.1249741136	-.2680408461	.2743237261
510	.1123446657	-.5072079829	.0425085276	-.2310860245	-.1392204476	-.0903199527	-.2508370614	.2760227229
520	.0753704259	-.2153831725	.0041748637	-.2116832767	-.1437218045	-.0553272558	-.2307798829	.2752405763
530	.0375444574	-.2169845291	-.0528269393	-.1992407077	-.1835969670	-.0206078967	-.2081057358	.2718572818
540	.0000000000	-.2122065908	-.0675474558	-.1763715525	-.1958426763	.0132227376	-.1831089400	.2657941222
550	-.0361793007	-.20214140628	-.0991257138	-.1478782806	-.2083498734	.0435596479	-.15614223626	.2570176096
560	-.0699868240	-.1851265943	-.1268098911	-.1202554267	-.2122935817	.1034673649	-.1276016168	.2454425315
570	-.1005189114	-.1639998102	-.1499741586	-.0886236143	-.2123236033	.1280003292	-.0979279075	.2314809365
580	-.1269966109	-.1388032021	-.1681319781	-.057579198	-.2066886235	.1490002251	-.0675946596	.2148093695
590	-.1487834356	-.1103955447	-.1809454634	-.0225361263	-.1962650811	.1661018342	-.0370991074	.1958359702
600	-.1653986686	-.0796985564	-.1882306232	-.0101749459	-.1814291729	.1790334609	-.0069520482	.1747321664
610	-.1765259712	-.0476695546	-.1895984185	-.0415420492	-.1626448706	.1900709350	-.0223330034	.1517635775
620	-.1820171867	-.0152738690	-.1862516782	-.0707860913	-.1404610169	.1876093350	-.0502510057	.1272396301
630	-.1818913635	-.016542341	-.1773780293	-.0922010631	-.1154979106	.1917373891	-.0763166527	.1015086790
640	-.1763291496	-.0468773929	-.1637391023	-.1201708265	-.0884313393	.1914218932	-.1000754302	.0749520539
650	-.1656626345	-.0748990810	-.1458563673	-.1301893446	-.0599758633	.1867637670	-.1211141855	.0479771336
660	-.1503624260	-.0998650181	-.1243540440	-.1358440020	-.0308669500	.1779585379	-.1390709358	.0210095837
670	-.1310182493	-.1211415329	-.0999395990	-.1638737510	-.0018427033	.1652219780	-.1536436549	.00551150797
680	-.1083206387	-.1382184448	-.0733824025	-.1691339003	-.0530951369	.1491335109	-.1649978018	.031160481
690	-.083073616	-.1507201327	-.0454911551	-.1696074602	-.0776805351	.1299275394	-.1717273777	.0754982861
700	-.0559894592	-.1584125745	-.0170907223	-.1654070477	-.0995570303	.1081829031	-.1750843370	.1078181204
710	-.0280262189	-.1612062533	-.0110009837	-.14403764509	-.0844607200	.0844607200	-.1745312144	.0986360766
720	.0000000000	-.1591549431	.0379954439	-.1400370363	.1182301660	.0593609173	-.1701918748	.1167037906
730	.0272583773	-.1524505011	.0631546935	-.1276662723	.1332960225	.0335077852	-.1622253395	.1320165363
740	.0529630019	-.1414138999	.0858106491	-.1081937105	.1444502449	.0075349208	-.1508676918	.1443205740
750	.0763943727	-.1264828347	.1053821031	-.0862298364	.1514944229	-.0179300562	-.1364271136	.1534194851
760	.0969184662	-.1081963262	.1213889643	-.0624392517	.1530073505	-.049459439	-.0998483722	.1615324038
770	.1140028922	-.0871768178	.1334634003	-.0375216909	.1476268795	-.0854044886	-.0786185664	.1604796894
780	.132297451	-.0641103232	.1413576393	-.0121924014	.1384308031	-.1031964424	-.0561017819	.1560915554
790	.1563048638	-.0397252253	.1449482350	-.0128375729	.1257471818	-.1179344762	-.0328364003	.1485070174
800	.1410653197	-.0147705532	.1442368656	-.0368806656	.1099895771	-.1293126675	-.0093725759	.1379313311
810	.1414710605	.0100070505	.1393475027	-.0592911280	.0916449016	-.1371133333	-.0137406620	.1244320243
820	.1376227509	.0338827051	.1305203021	-.0794818664	-.0712594777	-.1412113338	-.0359688222	.1089338237
830	.1297359547	.0561758363	.1181023222	-.0969394785	-.0429236918	-.1415773445	-.0568020552	.0914098036
840	.1181419062	.0762676335	.1025354293	-.1112369659	-.049236918	-.1457721295	-.0757721295	.0718772593
850	.1032732083	.0936178274	.0843417739	-.1220438726	-.0388843944	-.1314627511	-.0924584764	.0513844579
860	.0856488771	-.1077785421	.0641072879	-.1291336411	-.0038843944	-.1213828691	-.1065005198	.0302031060
870	.0658572178	-.1184052205	.0424637026	-.1323879270	-.0185672012	-.1083593971	-.1176055401	.0088163127
880	.0445370698	-.1252643506	.0200696200	-.1317978991	-.0598487256	-.0927864461	-.1255553552	.0326457665
890	.0223579948	-.1282378365	-.0024088146	-.1274624718	-.0776075769	-.0751177201	-.1302111453	.0517934652
900	.0000000000	-.1273239545	-.0243170841	-.1195835862	-.0928325179	-.0558540882	-.1315162968	.0848230899
910	-.0218666103	-.1226349355	.0450307781	-.1084587073	-.1051570454	-.0355300355	-.1294971888	.0693127372
920	-.0428008755	-.1163913082	.0639728684	-.0944707899	-.1143002670	-.0166993542	-.1242619019	.0848230899
930	-.0616083651	-.1029132278	-.0808293122	-.078076273	-.1200731077	-.0062079522	-.115968809	.0979941297
940	-.083596110	-.0886090979	-.0945625706	-.0597897384	-.1200731077	-.0262582910	-.1049616373	.1085532013
950	-.0924023442	-.0719618631	-.1054228949	-.0401079395	-.1233803932	-.0433128819	-.0914816292	.1162914502
960	-.1033741679	-.0535134125	-.11295557075	-.0198056765	-.1212301572	-.0627570008	-.0759393025	.1210695461
970	-.1101111778	-.0338475768	-.1170096849	-.0207099775	-.1167156098	-.067815466324	-.0567849224	.12154447405
980	-.1151537304	-.0135722374	-.1175342362	.0007860059	-.1090274476	-.0911309748	-.0404232598	.12154447405
990	-.1157490495	.0066989212	-.1145895989	.0398569608	-.0984390402	.0911309748	-.0214034270	.117323*014
1000	-.1128506558	.0263644817	-.1083189352	.0573955708	-.0852992674	.1013811630	-.0214034270	.117323*014

TABLE 3. TABULATION OF FOURIER TRANSFORMS OF LEGENDRE POLYNOMIALS

$\omega$	$\theta_0$	$\theta_1/j$	$\theta_2$	$\theta_3/j$	$\theta_4$	$\theta_5/j$	$\theta_6$	$\theta_7/j$
1000	.1128506558	.0263644817	.1083189352	.0573955708	.0852992674	.1013811630	.0214034270	.1173234014
1010	.1066146955	.0448526669	.0989814227	.0729280023	.0700217522	.1086780596	.0022051823	.1103043164
1020	.0972293345	.061375264	.0869063635	.0860461923	.0530274560	.1128770253	.0166737682	.1007011674
1030	.0872554631	.0762534890	.0725002114	.0964183246	.0349559964	.1159187902	.0347505325	.0887889212
1040	.0708250330	.0883078870	.0562298333	.1037969838	.10162010798	.11182599467	.0515893276	.0748961364
1050	.0545674091	.0974911271	.0386078944	.1080247909	.0026545362	.1067211304	.0667129876	.0593965169
1060	.0349741712	.1035842513	.0201771200	.1090373960	.0210791302	.0987829557	.0798133858	.0426993594
1070	.0185968368	.1064637159	.0014942529	.1068637831	.0385617343	.0882798377	.0905605037	.0252391363
1080	.0000000000	.1051032954	.0168868639	.1018239156	.0548260771	.0755448850	.0987699133	.0074644789
1090	.0336229659	.0960588305	.0506363516	.0932328280	.0688433744	.0609581002	.1040884843	.0101731576
1100	.05161178194	.0867402865	.0650498527	.0828483392	.0808436236	.0849501792	.1065981740	.0372308582
1110	.0657661021	.0750125955	.0772783480	.069516287	.0903251065	.0279901633	.1062178097	.0432853488
1120	.0776833867	.0612452249	.0869995626	.0391889959	.1008695794	.0103574814	.1030028487	.0579435505
1130	.0870519309	.0458842730	.0939702866	.0222629958	.1018005163	.0086595754	.0970829932	.0708523143
1140	.09336355151	.0294153927	.0980321530	.0049943987	.0997739841	.0397443037	.0886561535	.0902529295
1150	.0972850481	.0123487868	.0891148757	.0121290755	.0949212431	.0543250062	.0779921846	.0826322447
1160	.0979415034	.0047862690	.0872368727	.0286050828	.0874311859	.0671392209	.0512647466	.0897753722
1170	.0956361489	.0215069179	.0825032957	.0439647502	.0775601071	.0862175757	.0359747748	.1005668156
1180	.0904881029	.0372917713	.0851015623	.0577789996	.0652089639	.0920195431	.0199651043	.0987141393
1190	.0826993343	.0516950853	.0752945588	.0696703371	.0520089639	.0920195431	.0036792589	.0943032748
1200	.0725472951	.0643096596	.0634117445	.0793229874	.0371190942	.0951419188	.0124375458	.0874856829
1210	.0603754380	.0747881023	.0498384479	.0864911053	.0214048192	.0953383612	.0279504215	.0784738239
1220	.0465819346	.0828521540	.0350026937	.0910048529	.0053294190	.0923291447	.04446464381	.0675350611
1230	.031606958	.0882998286	.0193669346	.0927741980	.0108403193	.0883493541	.0555455542	.0549841639
1240	.0159188923	.0910101829	.0034040925	.0917903534	.0260474267	.0810430186	.0669105368	.0411746164
1250	.0000000000	.0904566818	.0124066755	.0881248479	.0404576858	.0715673147	.0762557461	.0264889644
1260	.0156682011	.0881519165	.0275990659	.0819262866	.0534716747	.0602150177	.0833541394	.0113284625
1270	.0306192355	.0827550699	.0417321642	.0734149258	.0647357250	.0473354302	.0880430094	.0038977004
1280	.0444153330	.0749568915	.0544030388	.0628752461	.0739514138	.0333140561	.0902276176	.0187833097
1290	.0566600264	.0650275743	.0652580392	.0506467658	.0808833634	.0185633210	.0898830553	.0329358762
1300	.0670093336	.0532967041	.0740024852	.0371133832	.0853651429	.0035106643	.0870541572	.0549869428
1310	.0751812130	.0401425858	.0804084874	.0226915746	.0873031239	.0114136564	.0818535045	.0576016749
1320	.0809630394	.0259802865	.0843208953	.0078178054	.0866782071	.0257887051	.0744575879	.0674874811
1330	.0842169073	.0112487627	.0856598326	.0070644719	.0835453915	.0392146100	.0651012512	.0754014384
1340	.0848426363	.0036025310	.0844239478	.0215178491	.0780312247	.0513235822	.0540705814	.0811563299
1350	.0829784234	.0181271536	.0806873732	.0351236460	.0703292433	.0617898102	.0416944552	.0846251397
1360	.0785991551	.0318849061	.0745974539	.0474938815	.0669595176	.0703386584	.0263349850	.0857436942
1370	.0719124646	.0445043915	.0663691737	.0582821942	.0494305750	.0767528246	.0143771388	.0845127824
1380	.05261526813	.0555945442	.0562778624	.0671934075	.0368898836	.0808788116	.0002178259	.0809955358
1390	.0406353046	.0720336402	.0446502250	.0739914788	.0234532277	.0826300064	.0137452415	.0753170948
1400	.0276004376	.0769452331	.0318539779	.080656206	.009323292	.0819884528	.0271246041	.0676596377
1410	.0139151157	.0794740791	.0182864156	.0860344389	.0044882966	.0730054487	.0395537185	.058270876
1420	.0000000000	.0795774715	.0043622570	.0803479914	.0181728519	.0737948100	.0506969377	.0473882594
1430	.0137231830	.0727855761	.0228848702	.0727643744	.0311365378	.0665377819	.0602585343	.0353688403
1440	.0268442613	.0727005339	.0354033717	.0657537402	.0534663050	.0574682319	.0679905250	.0225424308
1450	.0389767208	.0659904759	.0466929978	.0622149091	.0486698069	.0486698069	.0736990881	.0092708979
1460	.0497689421	.0573855924	.0564637102	.0464618984	.0690245850	.0224123331	.0772494057	.0040756927
1470	.0589142463	.0471844608	.0543557450	.0347959287	.0731721933	.0092821031	.0776481596	.0295339062
1480	.0661594675	.0356700808	.0702469576	.0222533002	.0761972122	.00399407718	.0745414219	.04099553154

TABLE 3. (Continued)

$\omega$	$\theta_0$	$\theta_1/j$	$\theta_2$	$\theta_3/j$	$\theta_4$	$\theta_5/j$	$\theta_6$	$\theta_7/j$
1500	0.661594675	0.356700808	0.702469576	0.222539002	0.761972122	0.003940718	0.745414219	0.409553154
1510	0.713118162	0.232495069	0.739583697	0.092180416	0.764067699	0.168747191	0.6695634904	0.0510899895
1520	0.742438525	0.102926026	0.754077788	0.031917248	0.743735119	0.029151037	0.622863110	0.0596731790
1530	0.748964438	0.028047386	0.745813464	0.167694327	0.701854483	0.404243149	0.653334425	0.0664858339
1540	0.732796466	0.156475519	0.715931427	0.289545232	0.639923610	0.0503820750	0.433732162	0.0713602108
1550	0.696715112	0.278595780	0.663826871	0.401227644	0.560007159	0.058333722	0.321107011	0.0741840170
1560	0.636148725	0.390651149	0.593105806	0.499563288	0.464669859	0.0653161106	0.200787089	0.0749029879
1570	0.559122465	0.489564141	0.581807393	0.581807393	0.356895947	0.069028847	0.07281023	0.0735218369
1580	0.466350091	0.572489237	0.403902929	0.645724358	0.239997297	0.0724051883	0.048823138	0.071035632
1590	0.360350815	0.637131190	0.291473592	0.689647563	0.117513049	0.0710291848	0.0170960313	0.0647671500
1600	0.244939884	0.681777030	0.171110860	0.712521741	0.005894278	0.0710291848	0.2866689139	0.0576837267
1610	0.123595884	0.705334140	0.048290774	0.713226865	0.129557036	0.072431435	0.39278828	0.0490713147
1620	0.000000000	0.707355303	0.007052729	0.694083066	0.429557036	0.072431435	0.39278828	0.0490713147
1630	0.122077395	0.688044195	0.194632726	0.653836633	0.355513372	0.0541367466	0.486343628	0.0546837777
1640	0.328979399	0.648241411	0.306921162	0.594627730	0.452340439	0.0452399204	0.626197888	0.0626197888
1650	0.434727149	0.589391646	0.408646519	0.518440977	0.534665525	0.0351346006	0.668869813	0.068869813
1660	0.443723098	0.513493259	0.496893574	0.427740534	0.600239412	0.0241282302	0.691847263	0.0691847263
1670	0.525642078	0.423031899	0.569183292	0.325391778	0.647330016	0.0125509442	0.694696946	0.0184335851
1680	0.590709531	0.320900376	0.623542097	0.214572012	0.674767392	0.0007457778	0.677565184	0.029294767
1690	0.637164748	0.210307316	0.658554786	0.098672967	0.681971835	0.0109413998	0.641167951	0.0392000287
1700	0.663827387	0.094657439	0.673400242	0.018801948	0.668964414	0.0221719324	0.586764769	0.0478806902
1710	0.670126076	0.022453468	0.673400242	0.134342569	0.636359819	0.0326241158	0.551617730	0.0551052551
1720	0.656108464	0.137545581	0.642362915	0.445355942	0.585341902	0.0420023491	0.431434166	0.0606885839
1730	0.624426315	0.247161258	0.597875453	0.364166287	0.517622811	0.0500454392	0.335303059	0.0644817891
1740	0.570340237	0.348066600	0.535956190	0.383630809	0.433870688	0.0618955366	0.230613236	0.0644057323
1750	0.501612728	0.437326077	0.438657974	0.512409409	0.342228388	0.0618955366	0.120489639	0.0644230351
1760	0.418511599	0.512387055	0.368470168	0.614567182	0.128984637	0.0642108626	0.0008101816	0.0645353575
1770	0.323704969	0.612035953	0.268239552	0.614567182	0.128984637	0.0642108626	0.103228938	0.054970623
1780	0.220183267	0.623035953	0.161081451	0.637960917	0.017337970	0.0652144270	0.0310150956	0.0486040714
1790	0.111165449	0.634008865	0.050283831	0.642056494	0.0093576443	0.0615099055	0.0399894946	0.0404031488
1800	0.000000000	0.636619772	0.06792710	0.626944312	0.0204866511	0.0507736258	0.0477076577	0.0311411304
1810	0.019937102	0.620004213	0.168816038	0.593284748	0.030079565	0.0431759839	0.0395999053	0.0210925922
1820	0.215344074	0.584873691	0.27081646	0.542282520	0.390083568	0.0343953744	0.0585809324	0.0105518102
1830	0.400315404	0.532488076	0.363106969	0.475645189	0.467351359	0.0247013067	0.0614541513	0.0001757724
1840	0.533544092	0.464611895	0.443718068	0.395527187	0.529932345	0.0437617698	0.0617502938	0.0209664054
1850	0.633544092	0.383455989	0.510126216	0.304461181	0.576113829	0.143872370	0.0625145924	0.0107823252
1860	0.575833382	0.291606436	0.504922186	0.205278918	0.604756331	0.037617698	0.0592021497	0.0304414797
1870	0.600289446	0.191942990	0.593476467	0.101024915	0.615143712	0.0068604994	0.0549622378	0.0389439518
1880	0.606304545	0.087549600	0.608274056	0.005140656	0.607177372	0.0171682309	0.0491706841	0.042464718
1890	0.593990820	0.0122640542	0.604652940	0.110028180	0.58418740	0.0268624058	0.0491706841	0.0521343236
1900	0.563774044	0.0222108946	0.582855895	0.210522802	0.581284234	0.036649476	0.037052119	0.0584707170
1910	0.516870839	0.0313839746	0.543785711	0.303670795	0.480019541	0.0493342030	0.0245054219	0.0591408406
1920	0.454880192	0.0395150359	0.419637786	0.4057439152	0.324578030	0.0541606086	0.0146878953	0.0600845698
1930	0.379680589	0.0463699157	0.338596046	0.5113699478	0.223395178	0.057471316	0.0054440098	0.0592917623
1940	0.293824510	0.0517552265	0.248203648	0.554016422	0.134251125	0.0589519124	0.0056281559	0.0568021152
1950	0.199962354	0.055257461	0.151269350	0.577347398	0.033128031	0.0586063146	0.0155325231	0.0527035986
1960	0.101008200	0.055783706	0.050769657	0.583166668	0.067956699	0.0563785796	0.0248835796	0.0471295182
1970	0.000000000	0.0578745248	0.0050241909	0.571475931	0.166000552	0.0528243517	0.0341456686	0.0402543119
1980	0.009993042	0.0584209738	0.148726967	0.542799116	0.258124298	0.0475912234	0.0408850623	0.0322881883
2000	0.0195963107	0.0532790283	0.0241753059	0.498161708	0.0341652031	0.0410073220	0.0470877087	0.0234707967

TABLE 3. TABULATION OF FOURIER TRANSFORMS OF LEGENDRE POLYNOMIALS

$\nu$	$\theta_0$	$\theta_1/j$	$\theta_2$	$\theta_3/j$	$\theta_4$	$\theta_5/j$	$\theta_6$	$\theta_7/j$
2000	-0.195963107	-0.532790283	-0.241753059	-0.0498161708	-0.341652031	-0.410073220	-0.470877087	-0.234707967
2010	-0.285053629	-0.485601812	-0.326380397	-0.339055348	-0.414188421	-0.332796027	-0.518539608	-0.140640950
2020	-0.364643734	-0.424222635	-0.400742001	-0.376389309	-0.473688971	-0.264666940	-0.505058312	-0.043446378
2030	-0.432424764	-0.350642477	-0.462114913	-0.285427615	-0.518507318	-0.153716024	-0.562221493	-0.054044947
2040	-0.486466672	-0.267198680	-0.508980632	-0.195722135	-0.574660023	-0.005733765	-0.565174367	-0.149018803
2050	-0.525272402	-0.176502596	-0.540071700	-0.101028683	-0.559837596	-0.039795076	-0.547603582	-0.238758963
2060	-0.547818717	-0.081358473	-0.554607305	-0.042306862	-0.559430992	-0.134805593	-0.514187448	-0.320723067
2070	-0.553582411	-0.01522674	-0.552310056	-0.091759957	-0.534531212	-0.224918142	-0.466050312	-0.392616358
2080	-0.542551230	-0.101611562	-0.533410495	-0.184078317	-0.497916084	-0.307518900	-0.404735851	-0.452454250
2090	-0.515219342	-0.201648856	-0.498635186	-0.269997400	-0.446822755	-0.380241191	-0.332158463	-0.498617562
2100	-0.472567625	-0.285730441	-0.449180270	-0.347006950	-0.382906824	-0.441030999	-0.250544270	-0.529896085
2110	-0.416029512	-0.363637241	-0.386671216	-0.412886361	-0.308189453	-0.488204652	-0.162363516	-0.545201338
2120	-0.347433558	-0.423457226	-0.313110098	-0.465768281	-0.224994109	-0.520495128	-0.070256643	-0.545179160
2130	-0.268994270	-0.473147534	-0.223081207	-0.504191097	-0.133874916	-0.537085714	-0.023045362	-0.529026923
2140	-0.183143091	-0.508084930	-0.142333107	-0.527138870	-0.043538795	-0.537630133	-0.114799202	-0.497673298
2150	-0.092551700	-0.527353200	-0.050391077	-0.534067609	-0.049236244	-0.522258651	-0.202331770	-0.452162914
2160	-0.000000000	-0.530516477	-0.042217160	-0.524917252	-0.139684198	-0.491570106	-0.283116520	-0.393941420
2170	-0.091698688	-0.517627931	-0.132703388	-0.500109101	-0.226133100	-0.446610212	-0.354866318	-0.324810418
2180	-0.179782667	-0.489223686	-0.218356684	-0.460528924	-0.303083540	-0.388836874	-0.415499058	-0.266872446
2190	-0.261624564	-0.446302296	-0.296653657	-0.407496325	-0.371281396	-0.320073634	-0.463594440	-0.162467676
2200	-0.334809247	-0.390290506	-0.365302882	-0.342721812	-0.427784660	-0.244242893	-0.497240287	-0.074104214
2210	-0.397204647	-0.322996468	-0.422326368	-0.268250951	-0.471008509	-0.158384997	-0.516167163	-0.015615926
2220	-0.447023449	-0.246551910	-0.486413137	-0.186402550	-0.499789063	-0.070311453	-0.519750344	-0.104073013
2230	-0.482873733	-0.163345106	-0.495464296	-0.099694853	-0.513394637	-0.019021790	-0.508018605	-0.188705729
2240	-0.503797570	-0.075946732	-0.509625375	-0.010769537	-0.511553653	-0.106993314	-0.481449671	-0.267085031
2250	-0.509295818	-0.012969112	-0.508305051	-0.077688521	-0.494456797	-0.191009671	-0.440952563	-0.336983614
2260	-0.499339185	-0.100706275	-0.491679834	-0.163031893	-0.462747411	-0.268616523	-0.387873445	-0.396439015
2270	-0.474364945	-0.184627896	-0.460384681	-0.242729436	-0.417498511	-0.337570019	-0.323773969	-0.443808550
2280	-0.435259654	-0.262235235	-0.415489954	-0.314440983	-0.360177240	-0.395901387	-0.250739405	-0.477814556
2290	-0.383328502	-0.331241681	-0.358465511	-0.375085700	-0.292597885	-0.441972868	-0.170958155	-0.497578698
2300	-0.320252323	-0.389639729	-0.291133134	-0.425902120	-0.218684978	-0.474523438	-0.086834503	-0.502644419
2310	-0.248033678	-0.435759002	-0.215608805	-0.46298124	-0.135308228	-0.492703022	-0.000880591	-0.492298633
2320	-0.168933713	-0.468313626	-0.134236652	-0.484889475	-0.050411288	-0.496094296	-0.084358196	-0.469010765
2330	-0.085401783	-0.486437648	-0.069516601	-0.492528229	-0.032263467	-0.484721524	-0.166378262	-0.431534383
2340	-0.000000000	-0.489707317	-0.053972018	-0.483303575	-0.119151901	-0.459046264	-0.242791024	-0.381763480
2350	-0.084674939	-0.478151081	-0.119648626	-0.463565206	-0.198764502	-0.419995018	-0.311392206	-0.321252749
2360	-0.166070430	-0.452242919	-0.199008918	-0.428008533	-0.271759930	-0.366870577	-0.370225187	-0.251857937
2370	-0.241754344	-0.412886290	-0.271699460	-0.38004028	-0.336013566	-0.306934563	-0.417636607	-0.175679460
2380	-0.309487539	-0.361382328	-0.335587139	-0.320987944	-0.389679063	-0.236558242	-0.452322625	-0.094999290
2390	-0.367289653	-0.299387530	-0.388821421	-0.252781198	-0.431241116	-0.159737406	-0.473364577	-0.012213013
2400	-0.413496672	-0.2228860909	-0.429887627	-0.177546853	-0.459557959	-0.078806610	-0.480253021	-0.070240942
2410	-0.446808475	-0.152002479	-0.457649679	-0.097601244	-0.473892407	-0.003796396	-0.482899589	-0.149952810
2420	-0.466632024	-0.071184999	-0.471381140	-0.015338307	-0.473930595	-0.006620814	-0.451636353	-0.224611651
2430	-0.471570202	-0.11118923	-0.470783699	-0.066620814	-0.459787962	-0.164190850	-0.417202831	-0.292072125
2440	-0.462502688	-0.092412134	-0.455592657	-0.145949951	-0.432002405	-0.232727996	-0.370721095	-0.350615948
2450	-0.439513643	-0.170248364	-0.427564934	-0.220244116	-0.391516888	-0.302647935	-0.313459810	-0.398006296
2460	-0.403411367	-0.262305514	-0.386480797	-0.287313072	-0.33638202	-0.358507593	-0.247788327	-0.433335380
2470	-0.355333632	-0.306454615	-0.340667450	-0.343208680	-0.278014869	-0.4032424057	-0.175122259	-0.456051354
2480	-0.297008293	-0.360822414	-0.327199614	-0.3922442659	-0.208565563	-0.432609328	-0.097862202	-0.465001338
2490	-0.250103552	-0.403845772	-0.202225631	-0.427111288	-0.13429614	-0.447444551	-0.018327454	-0.4441974851
2500	-0.156770486	-0.434316285	-0.126909098	-0.4448858996	-0.0054899465	-0.4660182823	-0.061113283	-0.4441974851

TABLE 3. (Continued)

$\omega$	$\theta_0$	$\theta_1/j$	$\theta_2$	$\theta_3/j$	$\theta_4$	$\theta_5/j$	$\theta_6$	$\theta_7/j$
2500	-0.156770486	0.0434316285	-0.126909098	0.0448858996	-0.0054899465	0.0460182823	0.061113283	0.0441974851
2510	-0.0019277352	0.051413871	-0.0486364074	0.0451203305	0.0024648950	0.0451869390	0.0138112158	0.0410885022
2520	0.000000000	0.0454728409	0.031016689	0.051202366	0.0102827776	0.0430160947	0.0210411297	0.0367968950
2530	0.0078650654	0.044268857	0.108834129	0.031945267	0.177308629	0.0395806404	0.025908787	0.0314577424
2540	0.1543016159	0.020455681	0.182755083	0.0398847290	0.0245891671	0.0359927213	0.0332719576	0.0252358490
2550	0.0224689331	0.0384124808	0.0250581955	0.035973262	0.0306570331	0.023978488	0.0379229544	0.0183207005
2560	0.0287726697	0.0336459666	0.0310317773	0.0301733301	0.03057589741	0.029703824	0.0414141199	0.0109207318
2570	0.0341565086	0.0278992259	0.0360224711	0.02398837871	0.0397497401	0.0159081329	0.0436509688	0.0032570778
2580	0.0384648067	0.2113534529	0.0398874377	0.169244183	0.004426300	0.008426308	0.445768157	0.004430035
2590	0.043040984	0.0142125537	0.025188419	0.0095095611	0.0439914303	0.007509860	0.441741761	0.0119528442
2600	0.0439048119	-0.0066968245	0.0438468289	0.018655971	0.041346119	0.0068876886	0.424650002	0.0190530151
2610	0.0430737694	0.0085388163	0.0438413376	0.0517759305	0.0429537686	-0.0142623776	0.395097401	0.0255371177
2620	0.0409432861	-0.0157961061	0.0399110401	0.0204115094	0.040942926	0.0211562917	0.354052856	0.0312027324
2630	0.037506065	-0.025187757	0.0361244553	0.0268386072	0.0368394948	0.0273645999	0.302818381	0.0359407519
2640	0.0331235867	-0.0285116899	0.0312760108	0.0318927906	0.0321078351	0.0327103189	0.242988217	0.0395659474
2650	0.0276909903	-0.0335972947	0.0255199567	0.0363457643	0.0200398017	0.0402306382	0.0176399380	0.0419765375
2660	0.0214590935	-0.0376287328	0.0190366580	0.0396717299	0.0130774900	0.0421969597	0.0105076575	0.0431729605
2670	0.0146241125	-0.0404920680	0.0120270700	0.041777030	0.0057749049	0.0428888594	0.0043112357	0.0416906494
2680	0.0073972548	-0.0421094748	0.0047065167	0.042107082	0.016466046	0.0422950608	0.0043112357	0.0416906494
2690	0.000000000	-0.04413182	0.027018982	0.0421546379	-0.016466046	0.0422950608	0.0115561262	0.0390952376
2700	-0.0073426625	-0.0414870672	0.0099740653	0.04043265911	-0.0089637426	0.0404426891	0.184041683	0.0353655576
2710	-0.0144090520	-0.0392850237	0.0168916249	0.0375059450	-0.0224219655	0.0332551524	0.0246650399	0.0306197388
2720	-0.020987450	-0.0359108821	0.0232483002	0.0334712466	-0.0281688365	0.0281510811	0.301275459	0.0250050216
2730	-0.0268824943	-0.0314751728	0.0288570139	0.0284580467	-0.030225912	0.0224243262	0.381389775	0.0186932246
2740	-0.0319208098	-0.0261196751	0.0335534067	0.0242424277	0.0308530174	0.0157138469	0.4045436445	0.118755184
2750	-0.0359562323	-0.0200129127	0.0370202869	0.0161514059	0.0398494446	0.007621850	0.415505136	0.0647566640
2760	-0.0388739303	-0.0133448766	0.0397020425	0.0092388126	0.0410397374	0.0015988726	0.4140355262	0.0095344180
2770	-0.0405937611	-0.0084346446	0.0409849569	0.0020976770	0.0412872287	0.0056068683	0.4002625655	0.162850021
2780	-0.0410722434	0.0084346446	0.0410202789	0.005054518	0.0402935433	0.0125027098	0.374692144	0.025058503
2790	-0.0403038056	0.0079313762	0.0398169116	0.0120051994	0.0380972935	0.0190213877	0.338157587	0.0280169246
2800	-0.0383205845	0.0147289072	0.0374196191	0.0185438293	0.0347728639	0.0249249842	0.291824510	0.0326603602
2810	-0.0351912061	0.0210326550	0.0339092036	0.0244774320	0.0304279359	0.0300414500	0.227138468	0.0363049761
2820	-0.0310184548	0.0266555692	0.0293994601	0.0296316558	0.0252000320	0.0342234223	0.175783238	0.0388496966
2830	-0.0259359276	0.0314324811	0.0240335172	0.0338568105	0.0192521910	0.0373524526	0.109629245	0.0402276924
2840	-0.021037823	0.0352249344	0.0179793190	0.0370321960	0.0127679086	0.0393423453	0.040676792	0.0404054299
2850	-0.137037138	0.0379251774	-0.114243929	0.0390695297	-0.0059454998	0.0401415116	0.029004202	0.0398661397
2860	-0.069333155	0.0394592005	-0.045700622	0.0399153770	0.010079443	0.0397342764	0.029004202	0.0398661397
2870	0.000000000	0.0397887358	0.023747152	0.0395525185	0.0078828217	0.0381411047	0.097336132	0.0372081320
2880	0.068853340	0.0389121644	0.0091594968	0.0380002201	0.0148733181	0.0341177494	0.162295466	0.0339437093
2890	0.1351466970	0.0368643129	0.015697000	0.0353134050	0.0205835495	0.0316533517	0.221972200	0.0296968104
2900	0.196892713	0.0371151509	0.0216807516	0.0318607599	0.0205835495	0.0269675577	0.274627350	0.0455997363
2910	0.252253442	0.0295674386	0.0269658571	0.0269218396	0.0205835495	0.0215067459	0.318740338	0.0186090581
2920	0.299598044	0.0245554007	0.0214002204	0.0214832640	0.0340939380	0.0154944697	0.355056710	0.0125008339
2930	0.0337548303	0.0188305341	0.034857590	0.0154341261	0.0369612597	0.0099512970	0.376202236	0.005852803
2940	0.0365019805	0.0125766820	0.0372347847	0.0089607566	0.0384530541	0.0022391365	0.388801668	0.0008984422
2950	0.0381252215	0.0059845274	0.0384274733	0.0022610044	0.0387791021	0.0044947088	0.399314350	0.007506567
2960	0.0385830165	-0.0074433246	0.0385399391	-0.0044617923	0.0379374161	-0.0110486221	0.378220729	0.0199749328
2970	0.0378693476	-0.0074054930	0.0374421964	0.0110049558	0.0359610680	-0.0172276930	0.355928257	0.0253053900
2980	0.0360136597	-0.0137980108	0.0352204479	-0.0171725643	0.0329169668	-0.0228494972	0.2811005865	0.0298494929
2990	0.0330797337	-0.0197303695	0.0319492668	-0.0227812998	0.0289036314	-0.0277494681	0.230738976	0.0334782948

TABLE 3. TABULATION OF FOURIER TRANSFORMS OF LEGENDRE POLYNOMIALS

$v$	$\theta_0$	$\theta_1/j$	$\theta_2$	$\theta_3/j$	$\theta_4$	$\theta_5/j$	$\theta_6$	$\theta_7/j$
3000	.0330797337	-.0197303695	.0319492668	-.0227812998	.0289036314	-.0277494681	.0230738976	-.0334782948
3010	.0291635306	-.0250262397	.0277343964	-.0276658807	.0240480285	-.0317856996	.0173925299	-.0360896003
3020	.0243900776	-.0295296939	.0227093556	-.0316839161	.0185015798	-.0348430426	.0112300725	-.0376127992
3030	.0189094982	-.0331097807	.0170312302	-.0347200408	.0124354603	-.0368363756	.0047733392	-.0380097720
3040	.0128923097	-.0356643149	.0108757820	-.0366892103	.0060303535	-.0377129581	.0017833249	-.0372760170
3050	.0065241362	-.0371227742	.0044320264	-.0375390634	.0035043035	-.0374538008	.0082437772	-.0354496575
3060	.0000000000	-.0374482219	.0051035540	-.0372512860	.0069860345	-.0366740205	.0144160280	-.0325496554
3070	.0064816337	-.0366382037	.0085329833	-.0358419433	.0336221710	-.0201178817	.0201178817	-.0287411592
3080	.0127248771	-.0347245976	.0146627728	-.0336077746	.0301785815	-.0251823117	.0251823117	-.0240886717
3090	.0185423235	-.0317724286	.0203097274	-.0298694809	.0241892704	-.0258527534	.0258527534	-.0187508499
3100	.0237606562	-.0278776909	.0253064053	-.0255390615	.0286105869	.0207799025	.0328352981	-.0128904790
3110	.0282257965	-.0231642493	.0295060669	-.0204462861	.0324428593	.0151181750	.0325206326	-.0066848377
3120	.0318074363	-.017799191	.0327869693	-.0147694144	.0346853513	.0090367152	.0369110071	-.0003503544
3130	.0344082821	-.0118918482	.0350958788	-.0086683956	.0361688538	.0027245929	.0367171560	.0060129774
3140	.0359396993	-.0056813447	.0362507029	-.0023740003	.0365593926	.0002629011	.0358225546	.0121272552
3150	.0363782727	.0006616894	.0363421660	.0039668524	.0358370907	.0098334640	.0338696063	.0178422295
3160	.0357122328	.0069445492	.0353344860	.0101478988	.0340465042	.0157037497	.0309144332	.0229906058
3170	.0339687200	.0129775665	.0332650357	.0159837907	.0312427561	.0210660312	.0270544465	.0274229312
3180	.0312072960	.0185798195	.0302030080	.0213007391	.0275164995	.0257627559	.0224105029	.03101199239
3190	.0275179395	.0235845442	.0262471293	.0259416755	-.0229855495	.0296572789	.0171261119	.0336561193
3200	.0230181357	.0278440841	.0215224965	.0297708782	-.0177911778	.0346378265	.0113630195	.0352827295
3210	.0178491525	.0312342312	.0161766388	.0326779277	.0120937256	.0346206925	-.0052962754	.0358496348
3220	.0121716216	.0336578338	.0103749273	.0345808766	.0060676702	.0355252745	.0008910681	.0353464540
3230	.0061605620	.0350475635	.0042954746	.0354285427	.0010370724	.0345119868	.00710134644	.0337946664
3240	.0000000000	.0361533396	.0018763182	.0352018622	.0062338574	.0342087130	.0128864234	.0312467872
3250	.0061226509	.0328196370	.0079534012	.0339142683	.0121386354	.0319882889	.0183419360	.0277846263
3260	.0120222655	.0328196370	.0137527205	.0316110888	.0178417716	.02888025393	.0252136268	.0235166675
3270	.0175216451	.0300413715	.0191007679	.0283679871	.0223601445	.02480721956	.02735614400	.0185747889
3280	.0243671178	.0263705951	.0238386603	.0242884996	.0268085992	.0200738117	.0306657918	.0131100112
3290	.0286815280	.0219237980	.0278269454	.0195007486	.0302042020	.0147666575	.0330329979	.0072880958
3300	.0300724852	.0168402282	.0309496434	.014534343	.0326698023	.0030484113	.0343979215	.0012844342
3310	.0325319766	.0112775458	.0331176162	.0084112321	.0341367995	.0029192132	.0347257515	.0047212023
3320	.0339911614	.0054069474	.0342710969	.0024497347	.0345670355	.0029192132	.0340128654	.0105500317
3330	.0344118796	.0005920887	.0343813173	-.0035499031	.0339537613	-.0088077605	.0322867576	.0160295725
3340	.0337876215	-.0065372765	.0334511918	-.0094064563	.0323216584	-.0143965910	.0296050377	.0209879372
3350	.0321435351	-.0122490479	.0315150407	-.0149440909	.0297258964	-.0195197672	.0260353572	.0253125584
3360	.0295354765	-.0175559636	.0286373671	-.0199976307	.0262503257	-.0240242901	.0217435831	.0288644098
3370	.0260481386	-.0222998465	.0249107317	-.0244174723	.0220047503	-.0217845491	.0168065262	.0314995992
3380	.0217923178	-.0263404837	.0204527825	-.0280740025	.0171215342	-.0306861104	.0113996316	.0331982288
3390	.0169014099	-.0295597583	.0154026051	-.0326813870	.0117513985	-.03264892358	.0056814572	.0353182288
3400	.0115272416	-.0318650896	.0091629988	-.0327006221	.0060588713	-.0336195426	.0001731395	.0358972441
3410	.0058353711	-.0331920815	.0041622630	-.0338417591	.0002172165	-.0357460067	.0001731395	.0358972441
3420	.0000000000	-.0335063038	.0016840086	-.0333652416	-.0055968193	-.0325213623	.0059882134	.0322666033
3430	.0058013456	-.0328041583	.0074452580	.0321823189	-.0112083418	-.0304972705	.0115900079	.0299971632
3440	.0113923039	.0311128081	.0129478254	.0300345294	.0164449586	-.0304972705	.0168121358	.0268464140
3450	.0166074723	.0284891177	.0180268720	.0269922738	.0211647861	-.0238288314	.0251005119	.0229133189
3460	.0212884492	.0250180603	.0225130707	.0231525274	.0252150627	-.0238288314	.025178893	.0183195921
3470	.0252974718	.0208093936	.0263282704	.01863357643	.0284822342	-.0144031400	.0287478696	.0132059491
3480	.0285170118	.0159947917	.0293070412	.0135821914	.0308723905	-.0090075595	.0310982661	.0077278108
3490	.0308541096	.0107234416	.0313822539	.0081474091	.0323185534	-.0033722084	.0329275352	.0036552742
3500	.0322430445	.0051574929	.0324496324	.0024976319	.0327825400	.00233322855	.03236265596	.0092194555

TABLE 3. (Continued)

$\omega$	$\theta_0$	$\theta_1/j$	$\theta_2$	$\theta_3/j$	$\theta_4$	$\theta_5/j$	$\theta_6$	$\theta_7/j$
3500	-0.322430445	-0.051574929	-0.324963324	-0.024976319	-0.327825400	-0.023322855	-0.323625596	-0.092194555
3510	-0.326471678	-0.005329188	-0.326210704	-0.031953827	-0.322559497	-0.079341770	-0.308312935	-0.144767807
3520	-0.320598454	-0.061748606	-0.317583169	-0.087595446	-0.307602502	-0.132657641	-0.283850243	-0.192721411
3530	-0.305044879	-0.115978470	-0.299397505	-0.140276223	-0.2834459644	-0.181683977	-0.251021408	-0.234650570
3540	-0.280336726	-0.166389804	-0.272257436	-0.188422584	-0.2620909881	-0.224971933	-0.210856388	-0.269337852
3550	-0.247273769	-0.211478336	-0.237034316	-0.230606598	-0.210980938	-0.261253036	-0.164599062	-0.295788475
3560	-0.206904591	-0.24959278	-0.194838231	-0.265558822	-0.164916998	-0.289476265	-0.113668838	-0.313258760
3570	-0.160492380	-0.28056736	-0.146084214	-0.292351659	-0.114140065	-0.308838409	-0.059617232	-0.321276954
3580	-0.109476596	-0.302533584	-0.094950840	-0.310134744	-0.060206180	-0.318806822	-0.004080722	-0.319655846
3590	-0.050000000	-0.315231850	-0.04334761	-0.311840529	-0.006475783	-0.319133940	-0.0051268695	-0.308496826
3600	-0.005120818	-0.311750850	-0.0069963640	-0.306178793	-0.013980052	-0.309863159	-0.04773730	-0.288185325
3610	-0.08266910	-0.295747289	-0.123309787	-0.286067950	-0.134004098	-0.291325955	-0.154841333	-0.259377807
3620	-0.15789613	-0.270894895	-0.170666997	-0.257425888	-0.199109398	-0.264130373	-0.199890041	-0.223807057
3630	-0.202357237	-0.237974740	-0.213594832	-0.221164188	-0.237963629	-0.229141273	-0.238893725	-0.180122312
3640	-0.240499252	-0.198027603	-0.249824851	-0.178419508	-0.2659430000	-0.180355174	-0.293665439	-0.080427702
3650	-0.271145358	-0.152201178	-0.278297993	-0.130517980	-0.292600427	-0.089293137	-0.307976743	-0.026616914
3660	-0.2934088290	-0.102211215	-0.298195433	-0.078934185	-0.306821637	-0.035823486	-0.312973648	-0.027696104
3670	-0.306459391	-0.049297789	-0.308962017	-0.025245861	-0.311713476	-0.018433161	-0.308556529	-0.080886104
3680	-0.310546230	-0.004821948	-0.310321615	-0.028914250	-0.307178891	-0.071841211	-0.294908381	-0.131369957
3690	-0.305001772	-0.058503100	-0.302283950	-0.081907957	-0.293405339	-0.122799305	-0.272487852	-0.177653697
3700	-0.290244858	-0.110122916	-0.285142773	-0.132141080	-0.270857630	-0.169788248	-0.242014058	-0.218376656
3710	-0.266772046	-0.158129760	-0.259465459	-0.178111313	-0.240262452	-0.211416211	-0.204443683	-0.252351395
3720	-0.235461091	-0.201089650	-0.226074398	-0.21845307	-0.202526574	-0.246459888	-0.160941075	-0.278598273
3730	-0.196466616	-0.237720005	-0.186020785	-0.251977944	-0.118899152	-0.273900356	-0.112842286	-0.296373626
3740	-0.152788145	-0.266572310	-0.140551636	-0.277705664	-0.110849998	-0.292952433	-0.061614147	-0.305190765
3750	-0.104235695	-0.287973588	-0.091071064	-0.294912401	-0.059813444	-0.303088036	-0.008809636	-0.304833200
3760	-0.000000000	-0.300140773	-0.039097017	-0.303111720	-0.006850557	-0.3040486742	-0.043979100	-0.292359718
3770	-0.052502943	-0.303152273	-0.013785195	-0.302107519	-0.004589798	-0.295854422	-0.043231826	-0.250649513
3780	-0.103138477	-0.281815533	-0.065971167	-0.291978631	-0.006869321	-0.278798729	-0.143642997	-0.216838176
3800	-0.150382623	-0.258208851	-0.162031661	-0.246025478	-0.144708065	-0.253442022	-0.186742954	-0.176716563
3820	-0.192822079	-0.226904288	-0.203032020	-0.211678008	-0.187920230	-0.220590181	-0.224420454	-0.135172591
3830	-0.229196415	-0.188889910	-0.237673643	-0.171112238	-0.252526574	-0.181270610	-0.255164022	-0.082618495
3840	-0.258435420	-0.145351702	-0.264941700	-0.125586023	-0.278058587	-0.136699918	-0.278087136	-0.082618495
3850	-0.279690500	-0.097636657	-0.284049592	-0.076500497	-0.292018966	-0.088246375	-0.292542235	-0.031501913
3860	-0.292359212	-0.047211193	-0.294461545	-0.025357043	-0.292709620	-0.014332400	-0.294756082	-0.020291923
3870	-0.296102220	-0.004383826	-0.295907511	-0.024286544	-0.293183077	-0.065354016	-0.282539769	-0.071210026
3880	-0.290852206	-0.055580092	-0.288389860	-0.024873298	-0.290443669	-0.1141444985	-0.261902358	-0.164424485
3890	-0.276814505	-0.104829439	-0.272182409	-0.124874302	-0.259307501	-0.159248345	-0.233063257	-0.203959399
3900	-0.254459470	-0.150650577	-0.247819765	-0.168854457	-0.230435013	-0.199325356	-0.198243325	-0.237181743
3910	-0.224506974	-0.191673567	-0.216080821	-0.207505432	-0.194795834	-0.233195666	-0.157206985	-0.263143200
3920	-0.187903149	-0.226680696	-0.177963470	-0.239686507	-0.159440210	-0.225987019	-0.111658615	-0.281087405
3930	-0.145790788	-0.254642547	-0.134653426	-0.264445816	-0.107664259	-0.278585008	-0.062987891	-0.290229799
3940	-0.099473658	-0.274748184	-0.087487432	-0.281109428	-0.017687202	-0.288814522	-0.021267239	-0.283121028
3950	-0.050376242	-0.286428583	-0.037912078	-0.289176206	-0.008549841	-0.290294365	-0.003776899	-0.283172343
3960	-0.000000000	-0.289372624	-0.0012560477	-0.288463959	-0.0041776228	-0.283023956	-0.086820889	-0.266693623
3970	-0.050122457	-0.283352502	-0.062398855	-0.279032464	-0.090587895	-0.272666032	-0.133017460	-0.242209506
3980	-0.098473923	-0.269137257	-0.110097362	-0.261124291	-0.136420129	-0.2433537446	-0.174985543	-0.210789423
3990	-0.143598445	-0.246657751	-0.154224346	-0.235584563	-0.177905050	-0.212592363	-0.211485776	-0.173112626
4000	-0.184145086	-0.216817883	-0.193462148	-0.202962178	-0.213812681	-0.175398408	-0.244449050	-0.130437871

TABLE 3. TABULATION OF FOURIER TRANSFORMS OF LEGENDRE POLYNOMIALS

$\nu$	$\theta_0$	$\theta_1/j$	$\theta_2$	$\theta_3/j$	$\theta_4$	$\theta_5/j$	$\theta_6$	$\theta_7/j$
4000	.0184145086	.0216817883	.01934662148	.02029662178	.0213812681	.0175398408	.0241449050	.0130437871
4010	.0218908297	.018058060	.0226647659	.0164366083	.0243087325	.0133106503	.0264007767	.0084067875
4020	.0246863685	.0139008345	.0252807410	.0120592428	.0268878673	.0087013345	.0278520897	.0035409640
4030	.0267198120	.0093453323	.0271184086	.0074175775	.0278566149	.0058351610	.02845922125	.0014068156
4040	.0279333306	.0045292459	.0281260336	.0287376767	.0283776767	.0010872900	.0282080558	.0028779418
4050	.0282942121	.0004002812	.0282772236	.0024008856	.0280395042	.0059705862	.0271103725	.0109565193
4060	.0277957280	.0052933974	.0275162226	.0072388870	.0268355232	.0106499434	.0252032806	.0152737219
4070	.0264572094	.010020904	.0260347935	.0118346258	.0248685727	.0149854312	.0225480269	.0191119148
4080	.0243233336	.0143846578	.0237173188	.0160499792	.0221395804	.0188481510	.0192280328	.0223584222
4090	.0214626472	.0183099642	.0206931482	.0197593897	.0187555180	.0221240616	.0153462835	.0249188304
4100	.0179653742	.023401308	.0170572491	.0228531973	.0148217022	.0247173409	.0110221430	.0267197286
4110	.0139405790	.0243401308	.0129226324	.0252408757	.0104592525	.0265531822	.0063876914	.0277108077
4120	.0095127722	.0262684185	.0084168478	.0268536732	.0058027179	.0275799453	.0015836987	.0278662585
4130	.0048180667	.0273914554	.0036780559	.0276465850	.0009932549	.0277706005	.0032446435	.0271854293
4140	.0000000000	.0276701205	.0011492006	.0275995984	.0038292647	.0271234250	.0079521037	.0256927280
4150	.0047948471	.0271267504	.0059183993	.0262181771	.0085065370	.0266619351	.0123977722	.0234367736
4160	.0094213032	.025750581	.0104854783	.0250328743	.0188693366	.026340581	.0164492729	.0204888271
4170	.0137399951	.0236095821	.0147131817	.0229587869	.0168867323	.0205105743	.0199866994	.0169405514
4180	.0176215393	.0207589922	.0184751776	.0194927844	.0203455077	.0159628188	.0229061584	.0129011705
4190	.0209504122	.0172929986	.0216598269	.0158120718	.0231733722	.0129601320	.0251228160	.0084941159
4200	.0236283812	.0133195174	.0241734899	.0116706615	.0252879560	.0085658905	.0265733567	.0038532630
4210	.0255773972	.0089613170	.0259432730	.0071959488	.0266288033	.0039343187	.0272177863	.0008811292
4220	.0267418616	.0043522321	.0269191349	.0025247999	.0271590929	.0007938998	.0270405246	.0055666493
4230	.027092031	.0003669396	.0270752924	.0022006275	.0268666383	.0054758296	.0260507610	.0100630122
4240	.0266157207	.005027320	.0264108856	.0068372041	.0257641402	.0099705976	.0242820636	.0142362525
4250	.0253366688	.0095633660	.0249498873	.0112451581	.0238886871	.0141426260	.0217912587	.0179627114
4260	.0232955871	.0137630325	.0227402606	.0112922824	.0213005229	.0210414416	.0186566157	.0211326956
4270	.0205578986	.0175295754	.0198523967	.018857894	.0180811217	.0235630070	.0169753971	.0236537019
4280	.0172098211	.0207402217	.0163768803	.0218366270	.0143306313	.0253623659	.0108608487	.0254531122
4290	.0135356596	.0233110346	.0124216560	.0241403516	.0101647651	.0263886288	.0064387227	.0264802800
4300	.0091145631	.0251635043	.0081086622	.0257037290	.0057112369	.0266144346	.0037859810	.0261329672
4310	.0046168481	.0262448217	.0057011770	.0264821258	.0011058618	.0266144346	.0073101410	.0247762685
4320	.0000000000	.0265258238	.0015542290	.0264558335	.0035115988	.0265036673	.0115934346	.0226612409
4330	.0045955232	.0260016978	.0056277086	.0256293607	.0080016530	.0246764396	.0155081178	.0199167919
4340	.0090305579	.0246920345	.0100084953	.0240313841	.0122292967	.0225783463	.0189381114	.0165662655
4350	.0131714436	.0226401225	.0140660529	.0217137714	.0106080649	.0198090149	.0189381114	.0165662655
4360	.0188940446	.0199115297	.0176790308	.0187499083	.0194038093	.0164549984	.0217824381	.0127337729
4370	.0200874661	.0165920154	.0207400880	.0152323821	.0221380876	.0126220571	.0239581903	.0085365211
4380	.022573519	.0127848422	.0231590762	.0241910631	.0241910631	.0084220775	.0254029425	.0041021351
4390	.0245286657	.0086075700	.0248656890	.0069849060	.0255038301	.0039891528	.0260765358	.0004352164
4400	.0256478763	.0058114987	.0258114987	.0025078751	.0260400975	.0005439178	.0259621870	.0049388743
4410	.0259844805	.0003375966	.0259713321	.0020247249	.0247562860	.0093637655	.0234210944	.0133106180
4420	.0259318226	.0048329143	.0243387776	.0064755582	.0247562860	.0033854523	.0210776972	.0169294766
4430	.0243071879	.0091614719	.0239517159	.0107103797	.0229820507	.0133854523	.0181103416	.0200235901
4440	.0223511714	.0139288445	.0218404305	.0146020788	.0205214074	.0169849370	.0146111162	.0225024059
4450	.0197263432	.0168063529	.0190771748	.0180344896	.0174517588	.0200567837	.0106877034	.0242842316
4460	.0165152543	.0198942783	.0157485336	.0209058529	.0138688151	.0225093249	.0064600720	.0253483131
4470	.0128178478	.0223654608	.0119578166	.0231318282	.0098823148	.0242718582	.0064600720	.0253483131
4480	.0087483530	.0241477871	.0078218577	.0246479650	.0056152571	.0252942987	.0020568147	.0256326649
4490	.0044317629	.0251903290	.0034674202	.0254115634	.0011975255	.0255470954	.0023887571	.0251528250
4500	.0000000000	.0254647909	.0009726834	.0254028679	.00332367589	.0250319627	.0067426442	.02239159125



TABLE 4. TABULATION OF FOURIER TRANSFORMS OF TRIGONOMETRIC FUNCTIONS

$\omega$	$A_0$	$B_1/j$	$A_1$	$B_2/j$	$A_3$	$B_3/j$	$A_3$	$B_4/j$
0	2.000000000	.000000000	.000000000	.000000000	.000000000	.000000000	.000000000	.000000000
10	1.9896615401	-1.108901168	.0061605620	.0553186142	.0013365726	.0368619230	.0096826283	.02764222981
20	1.9596310721	-2.204504956	.0244953884	.1092054467	.0060669693	.0726786249	.0066918009	.05447623306
30	1.9098593171	-3.274044544	.0545674091	.1602679147	.0135056596	.1064317886	.00591527771	.0797158671
40	1.8414508579	-4.304690317	.0956597848	.2071632215	.0230181357	.1371565398	.0101597289	.10261932525
50	1.7556445404	-5.284548784	.1467930218	.2486357335	.0343327408	.1639654189	.0151819832	.1225105708
60	1.6539866863	-6.202450073	.2067483358	.2835405748	.0472567625	.1860735022	.0206748336	.1387960856
70	1.5382977489	-7.048200595	.2740966898	.3108660667	.0604466340	.2028170733	.0262911021	.1509838492
80	1.4106331970	-7.812737706	.3472327869	.3297584097	.0732796466	.2136723496	.0316551629	.1586962347
90	1.2732395447	-8.488263632	.4244131816	.3395305453	.0844882636	.2182696362	.0363782727	.1616812120
100	1.1285065576	-9.068362666	.5037975704	.3396842481	.0943567356	.2164039564	.0400748057	.1598199688
110	.9789167493	-9.548054993	.5834922496	.3291572725	.1008075972	.2080416991	.0423788646	.1531309630
120	.8269933431	-9.923920118	.6615946745	.3101225037	.1033741679	.1933231192	.0429606931	.1417702874
130	.6752479002	-1.0194065073	.7362380331	.2804046293	.1012572273	.1725606210	.0415423717	.1260283219
140	.5261288185	-1.0368161076	.8056347503	.2410626578	.0937465891	.1462328622	.0379122235	.1063227440
150	.3819718634	-1.0417414457	.8681178714	.1925905955	.0802461898	.1149748084	.0319374468	.0831880646
160	.2449538840	-1.0374517441	.9221793280	.1356667665	.0682963407	.0795639883	.0235765091	.0572619469
170	.1170506788	-1.0233573635	.9665041766	.0711370561	.0335924987	.0403031502	.0126789114	.0292686678
180	.0000000000	-1.0000000000	1.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
190	-1.047295547	.9680407492	1.0218207909	.0766149898	.0063356890	.0841177090	.0147974048	.0297035838
200	-1.959631072	.9282462973	1.0313847748	.1574703540	.0874835300	.0841177090	.0311547070	.0589855507
210	-2.728370453	.8814735310	1.0283857861	.2412453874	.1047264760	.1250089735	.0486146008	.0869765154
220	-3.348092469	.8286528861	1.0127979719	.3265627137	.1995661028	.1635499117	.0666314455	.1128378398
230	-3.816618566	.7707707738	.9848737666	.4120156679	.2632322323	.1985856832	.0845827910	.1357748732
240	-4.134966716	.7088514370	.9451352493	.4961960059	.3307973373	.2290135412	.1017837961	.1550612518
250	-4.307233697	.6439385926	.8943591563	.5777213602	.4011953891	.2538090568	.1175041930	.1700596766
260	-4.34049837	.5770772169	.8335559800	.6552618721	.4732446854	.2720506880	.1309873683	.1802406214
270	-4.246131816	.5092958179	.7639437268	.7275654541	.5456740906	.2829421211	.1414271065	.1846647094
280	-4.030380543	.4441589525	.6869170351	.7934811733	.6171520237	.2802296622	.1482091164	.1785176296
290	-3.713132497	.3749042870	.6040124823	.8519802591	.6863174572	.2802296622	.1504937075	.1657885734
300	-3.307973373	.3101225037	.5168708395	.9021174561	.7518121301	.2658192889	.147773837	.1456642379
310	-2.831684743	.2480502490	.4271976511	.9433313948	.8123131456	.2424675324	.1391943242	.1274850594
320	-2.301813572	.1894063740	.3367224426	.9748857483	.8665651096	.2104290620	.1034899137	.1007398321
330	-1.736235743	.1348135989	.2471582846	.9964483394	.9134109777	.1693471316	.0348018449	.0757130187
340	-1.152724160	.0847917291	.1601621549	.10078102657	.9518208064	.1202500885	.0411857800	.0361884392
350	-.0568531869	-.0397530607	.0772976181	-.0089438795	.9809176606	.0635437748	.0000000000	.0000000000
360	.0000000000	.0000000000	.0000000000	.0000000000	1.0000000000	.0000000000	.0000000000	.0000000000
370	.0537800416	.0342751270	-.0704544277	.9813015814	1.0085599587	-.0694586446	.0475920342	.0375543987
380	.1031384775	.0629881416	.1329749656	.9533340351	1.0062970370	-.1437772797	.1011766043	.0754510359
390	.1469122552	.0861590669	.1866779784	.9167324722	.9931268449	-.2217901142	.1601817492	.1126206968
400	.1841450858	.1039063180	.2309029289	.8722661959	.9691264621	-.3022442138	.2238846028	.1479737297
410	.2141029927	.1164392105	.2652226461	.8208208241	.9348237163	-.383251222	.2914227780	.1804259305
420	.2362836123	.1260490015	.2894476701	.7633784706	.8900821157	-.4651837555	.3618095876	.2089246341
430	.2504205638	.1270986993	.3036246704	.7009964425	.8373015063	-.5464963963	.4339537858	.2324743824
440	.2564787631	.1260118985	.3080290852	.6347849286	.7758482383	-.6218301440	.5066784136	.2501615622
450	.2546479089	.1212609090	.3031522726	.5658844261	.7073553026	-.6949442971	.5787424476	.2611775423
460	.2453275125	.1133544533	.2896836030	.4954419033	.6330646543	-.7617419264	.6488912706	.2664838563
470	.2291081754	.1028252076	.2684880421	.4245903973	.5543263520	-.8225462222	.7158415287	.2606057363
480	.2067483358	.0902174556	.2405798816	.3544257185	.4725676246	-.8756400104	.7783466759	.2480980029
490	.1791474021	.0760751125	.2070933618	.2859873459	.3892260542	-.9203500180	.8352095386	.2271045758
500	.1473160686	.0609303593	.1692509980	.2202399697	.3058888468	-.9561379455	.8853129125	.1975923424

TABLE 4. TABULATION OF FOURIER TRANSFORMS OF TRIGONOMETRIC FUNCTIONS

$\nu$	$A_0$	$B_1/j$	$A_1$	$B_2/j^2$	$A_2$	$B_3/j^3$	$A_3$	$B_4/j^4$
500	.1473160684	.0609305593	-.1692509980	-.2202399697	.3058888468	-.9561379455	.8653129125	.1975923444
510	.1123446657	.0452931063	-.1283304679	-.1580573228	.2239145406	-.9822133631	.9278459540	.1597094899
520	.0753704259	.0296414784	-.0856309376	-.1022084071	.1447454769	-.9983026216	.9613284500	.1137850300
530	.0375445574	.0144134840	-.0424397029	-.0743463420	.0697043368	-.10042291885	.9856323516	.0603222335
540	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	-.10000000000	1.0000000000	.0000000000
550	-.0361793007	.0132608322	.0405192094	.0414314722	-.0632980825	.9858029648	1.0040588753	-.0663594400
560	-.0699868240	.0250877378	.0780507397	.0766812159	-.1192818913	.9620007081	.9976303640	-.1377865598
570	-.1005189114	.0352589412	.1116533139	.1056143401	-.1672227052	.9291207489	.9807385682	-.2131935582
580	-.1269966109	.0436133098	.1405317760	.1282248180	-.2065844289	.8878423779	.9536084800	-.2913944215
590	-.1487834356	.0500500502	.1640529425	.1446297542	-.2370321004	.8389805768	.9166639636	-.3711286169
600	-.1653986686	.0546270336	.1817567787	.1580612518	-.2584354197	.7834673777	.8705193086	-.4510872781
610	-.1820171867	.0577077217	.1987710414	.1598560960	-.2708672737	.7223311169	.8159666320	-.5293989943
620	-.1818913635	.0565884242	.1980594847	.1594436267	-.2745973570	.6666740745	.7539591223	-.6063617324
630	-.1763291496	.0538523808	.1914751317	.1543320660	-.2700811155	.5876849026	.6855905241	-.6790610905
640	-.1656628345	.0496861103	.1794220650	.1323492771	-.2579443560	.5164352043	.6120713533	-.7468058102
650	-.1503624260	.0443021148	.1624451210	.1167520014	-.2140453359	.4442143232	.5347024261	-.8084484520
660	-.1310182493	.0379370969	.1412103052	.0989715056	-.1841969687	.3721870044	.4548463387	-.8629495734
670	-.1083206587	.0308335958	.1164824729	.0796781651	-.1505031951	.2328766893	.3738975976	-.9093986109
680	-.0830373616	.0234247239	.0891009418	.0595280826	-.1140954917	.1676949644	.2142768990	-.9752473109
690	-.0559894592	.0154166780	.0599537478	.0391491224	-.0761232936	.1066734656	.1382804184	-.9936157549
700	-.0280262189	.0075932813	.0299512761	.0191281750	-.0377250118	.0505658933	.0664847856	-.10018883279
710	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
720	.0272583773	.0071563452	.0290229555	.0177622156	.0360178260	.0445306768	.0601988779	.0880691785
730	.0526303019	.0136930743	.0562937497	.0337544108	.06939840667	.08426719359	.1132911714	.15663934054
740	.0763943127	.0194532732	.0810636382	.04764472179	.0926550373	.1142108562	.1586261891	.21354412982
750	.0969184662	.0243185000	.1026781109	.0591894919	.1249559599	.1390746102	.1957346366	.2638405979
760	.1140028922	.0281905457	.1205928899	.0682098030	.14589931897	.1573262815	.2243359591	.2938651470
770	.1272297451	.0310122504	.1343864183	.0746159407	.16166780716	.1691577293	.2443389423	.31939136094
780	.1363048638	.0327573967	.1437685745	.0783925243	.1720805056	.1748601651	.2558452045	.3349329664
790	.1410633197	.0334317282	.1485854585	.0795968575	.1768819056	.1749120382	.2591289455	.34681946723
800	.1414710505	.0330711570	.1488202065	.0783532028	.1762947062	.1697652726	.2546479089	.3499175505
810	.1376227509	.0317392469	.1445899027	.0748456818	.1704818307	.1600298165	.2430082398	.3476226190
820	.1297359547	.0295240695	.1361387650	.0693100362	.1597981391	.1463370473	.2249562024	.3316892353
830	.1181419062	.0265345458	.1238278803	.0620245007	.1447238350	.1294424363	.2013549009	.3096678268
840	.1032732083	.0228963931	.1081218562	.0533000535	.1258473486	.1100078965	.1731605778	.27397549037
850	.0856488771	.018748029	.0895728358	.0434703153	.1038457533	.0887842378	.1413971194	.2397549037
860	.0658572178	.0142349763	.0688023853	.0328813656	.0794633001	.0664941348	.1071294395	.1729683910
870	.0485370698	.0095076440	.0464818152	.0218817365	.0534886989	.0438359892	.0714364268	.1102292478
880	.0223799948	.0047146910	.0233152782	.0108812835	.0267317248	.0214690356	.0353841513	.0523456452
890	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
900	.0218666103	.0045013834	.0227569939	.0102555498	.0259237509	.0200284293	.0337516123	.04662607016
910	.0426006755	.0086666730	.0442963289	.0196837943	.0503030298	.0361471081	.0849913694	.0860325637
920	.0616083651	.0123882767	.0640006096	.0280517892	.0742617222	.0539677672	.0929444880	.1190561652
930	.0783596110	.0155761821	.0813422841	.0351682922	.0918263186	.0671880718	.1169570139	.1452184685
940	.0924023442	.0181597527	.09758431395	.04510870510	.1078963846	.0775943732	.1365086195	.1645488244
950	.1033741679	.0200889071	.1091408389	.0451087278	.1202899408	.0850621724	.1512216399	.1772128592
960	.1110111778	.0213346743	.1149701895	.04510874659	.1287445053	.0895543738	.1608661900	.1835034474
970	.1151537504	.0218891358	.1191741839	.0485001397	.1331170470	.0911174553	.1653613078	.1838291225
980	.1157490495	.0217647785	.1197062820	.0485043636	.1333869999	.0898757326	.1647721764	.1787002870
990	.1128506558	.0209933010	.1166294499	.0466753631	.1296557865	.0860239330	.1593035796	.1687136050
1000								

TABLE 4. (Continued)

$\omega$	$A_0$	$B_1/j$	$A_1$	$B_2/j$	$A_2$	$B_3/j$	$A_3$	$B_4/j$
1000	-1128506558	-0.09933010	1166296499	0.66673631	-1296537865	-0.860239330	1593035796	1687136050
1010	-106646955	-0.196259259	1101120288	0.49318307	-1221309968	-0.798183321	1492898433	1545349941
1020	-097293345	-0.177212856	1004206202	0.392249807	-1111374453	-0.715667316	1351816042	1368816566
1030	-0852254631	-0.153629866	879102517	0.339327840	-0.970874653	-0.616175778	1175298243	1165036008
1040	-0708250330	-0.126367196	730121575	0.278538785	-0.804667602	-0.503485298	09641651007	0941651007
1050	-0545674091	-0.096376416	562192762	0.212010285	-0.661863531	-0.381547921	0761888736	0706265387
1060	-036974171	-0.064650585	380720113	0.141945108	-0.471949484	-0.254375187	0499229071	0466270447
1070	-0185968368	-0.032194513	0191384436	0.070555516	-0.289706673	-0.125925845	0228683210	0228683210
1080	000000000	0.000000000	000000000	0.000000000	0.000000000	0.000000000	000000000	000000000
1090	0182556105	0.030992046	-0.187674057	-0.067675971	0.204907801	-0.119857806	-0.41935401	-0.213931657
1100	0356296559	0.059072000	-0.366095555	-0.130593703	0.399036316	-0.223044420	-0.469423820	-0.408020350
1110	0516178194	0.08595161	-0.530118490	-0.187088260	0.576855467	-0.328970983	-0.676218131	-0.578015430
1120	0657661021	0.108497923	-0.737098187	-0.235747621	0.733437042	-0.413121505	-0.856844604	-0.720567727
1130	0776833867	0.126946053	-0.797058389	-0.275443230	0.864585663	-0.481096139	-1.006738217	-0.833265701
1140	0870319309	0.140964774	-0.892774905	-0.303513388	0.966946063	-0.531638578	-1.122348109	-0.914647015
1150	0936355151	0.150240692	-0.959871086	-0.324965238	1.038083400	-0.564047482	-1.201212230	-0.964186128
1160	0978945034	0.154332066	-1.003158429	-0.332873084	1.076535801	-0.578172240	-1.244519856	-0.970087272
1170	0956361489	0.149361162	-0.979145396	-0.321719522	1.054511988	-0.553591516	-1.209499980	-0.929662153
1180	0904881029	0.140077702	-0.926069253	-0.301322217	0.996037330	-0.519797865	-1.139330480	-0.863453855
1190	0826993343	0.126904349	-0.846028996	-0.272635168	0.908783894	-0.466642012	-0.905897609	-0.668521915
1200	0725472951	0.110363909	-0.741890722	-0.236804809	0.795927274	-0.332347414	-0.577039293	-0.414811073
1210	0603754380	0.091060757	-0.617189573	-0.191149340	0.661339431	-0.253334324	-0.390038929	-0.276870952
1220	0465819346	0.069660522	-0.476013568	-0.149110682	0.509461496	-0.169895663	-0.339038929	-0.137218687
1230	0316069528	0.046868668	-0.322873044	-0.100208407	0.345162291	-0.084548370	-0.195713819	-0.000000000
1240	0159188923	0.023408606	-0.162559762	-0.049993032	0.173586916	0.000000000	0.000000000	0.000000000
1250	000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
1260	0156682011	0.022662137	0.159893967	0.048294354	-0.170371749	-0.081323335	-0.191260437	-0.130899983
1270	0306192355	0.045326673	0.312369586	0.093513678	-0.324930777	-0.157142973	-0.372487047	-0.251952566
1280	0444153350	0.063205495	0.452972701	0.134418251	-0.481645400	-0.225426018	-0.538517709	-0.360067742
1290	0566600264	0.079985800	0.577675221	0.169936506	-0.613652604	-0.284434629	-0.684750033	-0.452666187
1300	0670093336	0.093845702	0.682988165	0.199190682	-0.724832760	-0.332765199	-0.807263123	-0.527704796
1310	0751812130	0.104662317	0.766056992	0.221516074	-0.812225605	-0.369376678	-0.902920772	-0.583760007
1320	0809630394	0.116184695	0.824736657	0.236473515	-0.873682653	-0.393607628	-0.96944010	-0.619893655
1330	0842169073	0.115205978	0.857644503	0.243854958	-0.907682345	-0.405418176	-1.005451321	-0.636176575
1340	0848826363	0.1115225298	0.864189736	0.243682210	-0.913808286	-0.404203030	-1.010507575	-0.6526665612
1350	0829784234	0.111782512	0.844578978	0.236199047	-0.913808286	-0.404203030	-0.985089165	-0.610370153
1360	0785991551	0.105082958	0.799798071	0.221857170	-0.844289785	-0.366792752	-0.930566796	-0.570704502
1370	0719124646	0.095422309	0.731571034	0.201296554	-0.771636791	-0.332274111	-0.849144951	-0.515288318
1380	0631526813	0.083175243	0.642297708	0.175320953	-0.653380944	-0.288950945	-0.743781137	-0.447076490
1390	0526128817	0.068782145	0.534972235	0.144866386	-0.5676933679	-0.2638404091	-0.618084680	-0.367881414
1400	0406353046	0.052557822	0.280911706	0.07479223	-0.294962489	-0.122704172	-0.476198344	-0.280689673
1410	0276004376	0.035557822	0.041391404	0.037401460	-0.148565909	-0.061285874	-0.222666526	-0.188375751
1420	000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.162294074	0.093855245
1430	000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
1440	0137231830	0.003360678	-0.139379701	-0.036509501	0.148246603	0.009365531	-0.159329873	-0.094425242
1450	0268447613	0.003360678	-0.139379701	-0.036509501	0.148246603	0.009365531	-0.159329873	-0.094425242
1460	0389767208	0.0048453090	-0.395700239	-0.101543251	0.283620316	0.015021824	-0.310848491	-0.174923676
1470	0497689421	0.061438583	-0.505161681	-0.128672808	0.4258988212	0.016551501	-0.450568840	-0.251159581
1480	0589142463	0.072225629	-0.597667707	-0.151167672	0.625999339	0.0209476188	-0.574119922	-0.317187708
1490	0661594675	0.080551300	-0.671260830	-0.168487608	0.80702031700	0.0273637503	-0.678224403	-0.371412158
1500								

TABLE 4. TABULATION OF FOURIER TRANSFORMS OF TRIGONOMETRIC FUNCTIONS

$x$	$A_0$	$B_1/j$	$A_1$	$B_2/j$	$A_3$	$B_3/j$	$A_3$	$B_3/j$	$A_3$	$B_4/j$
150n	•0461594675	•0080551300	•0671260830	•0168487608	•0702031700	•0273637503	•0760104176	•0273637503	•0760104176	•0412637011
1510	•0713118162	•0085232823	•0723397571	•0180260885	•0756094267	•0292419688	•0817692090	•0292419688	•0817692090	•0440087453
1520	•0742438525	•0089170843	•0752998230	•0186290518	•0786559963	•0301852933	•08449678010	•0301852933	•08449678010	•0453417813
1530	•0748964438	•0093501433	•0759476220	•0186555245	•0792859790	•0301927664	•0855526453	•0301927664	•0855526453	•0452707394
1540	•0732796466	•0086837885	•0742946349	•0181205335	•0775156155	•0292776642	•0835528894	•0292776642	•0835528894	•0438444162
1550	•0694715112	•0081779468	•0704212083	•0170553492	•0734327536	•0275046380	•0790683148	•0275046380	•0790683148	•0411497301
1560	•0636148725	•0074392205	•0644732441	•0150561252	•0671932091	•0250182806	•0722750485	•0250182806	•0722750485	•0373079704
1570	•0591122465	•0064957044	•0566569769	•0135321379	•0601515711	•0181125260	•0634142072	•0181125260	•0634142072	•034701790
1580	•0466190091	•0053808629	•0472320188	•0112036895	•0491717484	•0180403386	•0527846944	•0180403386	•0527846944	•0268118224
1590	•0360350815	•0041324039	•0365029008	•0085997418	•0379821928	•0138339910	•0407334180	•0138339910	•0407334180	•0205269250
1600	•0244953884	•0027910555	•0248093821	•0058053587	•0258015941	•0093299310	•0276442401	•0093299310	•0276442401	•0138218493
1610	•0123593884	•0013992854	•0125158303	•0039090362	•0130098562	•0046708334	•0139260034	•0046708334	•0139260034	•0089089083
1620	•0020300020	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000
1630	•0122577395	•0013647364	•0123584466	•0028344484	•0128357527	•0045428708	•0131721297	•0045428708	•0131721297	•0066995952
1640	•0238979599	•0026549269	•0241893343	•0055114624	•0251077731	•0082569450	•02686039613	•0082569450	•02686039613	•0129968162
1650	•0347247149	•0038337759	•0351429449	•0079549850	•0364603479	•0127276815	•0388901379	•0127276815	•0388901379	•0187164653
1660	•0443723098	•0048687039	•0449002412	•0100978265	•0456219999	•0161425887	•0496235134	•0161425887	•0496235134	•0237054285
1670	•0526642078	•0057321966	•0531820494	•0118834286	•0551259050	•0189814610	•0587019257	•0189814610	•0587019257	•0278366895
1680	•0590709531	•0064252291	•0597569383	•0132672729	•0619139401	•0211747940	•0658771369	•0211747940	•0658771369	•0310122504
1690	•0637164748	•0071084540	•0644475772	•0142178996	•0667451398	•0226740709	•0709614442	•0226740709	•0709614442	•031651651
1700	•0670126076	•00771329946	•0677634492	•0147621976	•071204387	•0235059608	•0738324026	•0235059608	•0738324026	•0342606147
1710	•0696108464	•0082422823	•069422823	•0143616502	•0686167732	•0228511152	•0727850337	•0228511152	•0727850337	•0333001935
1720	•070340237	•0086470534	•0702924478	•0135386104	•0650505446	•0215258042	•069622987	•0215258042	•069622987	•0313316656
1730	•0570340237	•0059638943	•0576509782	•0123278511	•0595846135	•0195866844	•0631126499	•0195866844	•0631126499	•0284760979
1740	•051612726	•0052146137	•0506976328	•0107748651	•0523778163	•0171072224	•0554400726	•0171072224	•0554400726	•0288430500
1750	•0418511559	•0043264751	•0422935340	•0089342829	•0436786187	•0141751028	•0462003351	•0141751028	•0462003351	•0205621084
1760	•0323704969	•0033263152	•0327087662	•0086679368	•0329737354	•0106892834	•0356926512	•0106892834	•0356926512	•0157785279
1770	•0220183267	•0022495765	•0222458119	•0064430843	•0229737354	•0073569370	•0242501620	•0073569370	•0242501620	•0157785279
1780	•0111165449	•0011292842	•0112301042	•0023299729	•0115851428	•0036893570	•0122293533	•0036893570	•0122293533	•0053345508
1790	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000
1800	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000
1810	•0109937102	•0011042176	•0111035219	•0022766571	•0114465259	•0036003526	•0120678485	•0036003526	•0120678485	•0051952725
1820	•0215344074	•0021508146	•0217471253	•0044329973	•0224112640	•0070060963	•0236131392	•0070060963	•0236131392	•0100997450
1830	•0313091691	•0031096760	•0316150389	•0064071322	•0325695886	•0101199493	•0342953837	•0101199493	•0342953837	•0145744431
1840	•0400315404	•0046608657	•0404183416	•0081440087	•0416249334	•0128556362	•0438043902	•0128556362	•0438043902	•0184967162
1850	•0474498524	•0059393682	•0479033421	•0095968908	•0493173555	•0151401842	•0518691494	•0151401842	•0518691494	•0217634391
1860	•0533544092	•0052121429	•0538588102	•0107285623	•0554309052	•0169157729	•0582654401	•0169157729	•0582654401	•0242935621
1870	•0575833382	•0055946173	•0581218575	•0115122214	•0597995947	•0184101960	•0628219434	•0184101960	•0628219434	•0260299502
1880	•0602629446	•0058204335	•0605823052	•0119320477	•0623118048	•0187922025	•0654247084	•0187922025	•0654247084	•0289464768
1890	•0636306455	•0058271833	•0641185423	•0119334310	•0629130128	•0186628081	•0660198282	•0186628081	•0660198282	•0270183458
1900	•0593950820	•0057786617	•0599329847	•0116728641	•0616067825	•0183640773	•06461443461	•0183640773	•06461443461	•0262816898
1910	•0563774044	•0053506637	•0568825978	•0110175084	•0584540028	•0173238954	•0612752597	•0173238954	•0612752597	•0247724084
1920	•0516870839	•0048866336	•0521453921	•0100444336	•0535704190	•0157856630	•0561268017	•0157856630	•0561268017	•0225543639
1930	•0454830192	•0042791607	•0458821119	•0087896981	•0471225484	•0138066591	•0493460222	•0138066591	•0493460222	•0197109632
1940	•0379680589	•0035534000	•0382977558	•0072968884	•0393221207	•0114560307	•0411568510	•0114560307	•0411568510	•0163422238
1950	•0293824510	•0027355349	•0296349620	•0056158969	•0304192246	•0088124757	•0318228289	•0088124757	•0318228289	•0125614206
1960	•0199962354	•0018520088	•02011663179	•0038010085	•0206943799	•0059616945	•0216387431	•0059616945	•0216387431	•0084914201
1970	•0101008200	•0009306875	•01011858574	•0019099605	•0104497834	•0029936902	•0109214254	•0029936902	•0109214254	•0042608188
1980	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000	•0000000000
1990	•0099993042	•0009119257	•0100817895	•0018701218	•0103376177	•0029290588	•0107941242	•0029290588	•0107941242	•0041627693
2000	•0195963107	•0011780703	•0197563371	•0036454485	•0202524914	•0057070477	•0211372136	•0057070477	•0211372136	•0081050918

TABLE 4. (Continued)

$\omega$	$A_0$	$B_1/j$	$A_1$	$B_2/j$	$A_2$	$B_3/j$	$A_3$	$B_4/j$
2000	-0.195963107	-0.017780703	-0.197563371	-0.036454485	-0.202524914	-0.0057070477	-0.211372136	-0.081050918
2010	-0.285053629	-0.025733564	-0.287358128	-0.052746402	-0.294500746	-0.0825238938	-0.307228269	-0.117139340
2020	-0.366443734	-0.032753079	-0.375622325	-0.07177780	-0.376609319	-0.104981382	-0.492708059	-0.148687661
2030	-0.43242764	-0.038646939	-0.435851566	-0.09176213	-0.446463685	-0.123788887	-0.635357774	-0.175442819
2040	-0.486466672	-0.042660332	-0.49283761	-0.086064930	-0.502103101	-0.138473504	-0.823121371	-0.1961424904
2050	-0.525272402	-0.046479825	-0.529335557	-0.095178137	-0.541986611	-0.148681007	-0.956447155	-0.210445445
2060	-0.547818717	-0.048235938	-0.542033508	-0.098751182	-0.565076205	-0.154198771	-0.988239754	-0.218115731
2070	-0.553582411	-0.048430364	-0.557800182	-0.09277937	-0.570848139	-0.154958160	-0.994006278	-0.219051965
2080	-0.542551230	-0.047305818	-0.546645002	-0.096802888	-0.559305576	-0.154034386	-0.981762080	-0.213373089
2090	-0.515219342	-0.044764550	-0.519069494	-0.071459486	-0.530973129	-0.142641126	-0.952073987	-0.201392853
2100	-0.472567625	-0.040805593	-0.476065247	-0.043464425	-0.486875812	-0.130121330	-0.906027395	-0.183606293
2110	-0.416029512	-0.035750845	-0.419079347	-0.0713109547	-0.428503179	-0.113934389	-0.845188076	-0.160671133
2120	-0.347443558	-0.0229714133	-0.349966456	-0.060751678	-0.357759881	-0.094640094	-0.771549997	-0.133384770
2130	-0.268994270	-0.022895416	-0.270929094	-0.046800718	-0.276904251	-0.072879940	-0.687470875	-0.102657612
2140	-0.183143091	-0.015514321	-0.184468034	-0.031706390	-0.188476876	-0.049356380	-0.595497504	-0.059483619
2150	-0.092551700	-0.007803209	-0.093204991	-0.015946468	-0.095221601	-0.002481068	-0.098783216	-0.034909001
2160	-0.000000000	-0.000000000	-0.000000000	-0.000000000	-0.000000000	-0.000000000	-0.000000000	-0.000000000
2170	-0.091698688	-0.007659042	-0.092334001	-0.015843224	-0.094293878	-0.004325389	-0.097752010	-0.0034189245
2180	-0.179782667	-0.014964339	-0.181016769	-0.030521207	-0.184822867	-0.047444440	-0.191534960	-0.066647821
2190	-0.261624564	-0.021649643	-0.263403987	-0.044201180	-0.268890511	-0.068686249	-0.278560899	-0.096437247
2200	-0.336809247	-0.027579098	-0.337065637	-0.056294354	-0.344021050	-0.08749078	-0.356274021	-0.122717939
2210	-0.397204647	-0.032567555	-0.39857208	-0.066466719	-0.408031805	-0.103216990	-0.422425088	-0.144772209
2220	-0.447023429	-0.036485000	-0.449981672	-0.074448013	-0.459096079	-0.115733604	-0.475135927	-0.162023186
2230	-0.482873733	-0.039231964	-0.486040438	-0.080038617	-0.495794765	-0.124212622	-0.512952126	-0.174049178
2240	-0.503797570	-0.0403746847	-0.507071871	-0.083114231	-0.517152115	-0.128944888	-0.534882499	-0.180593155
2250	-0.509295818	-0.041006105	-0.512576306	-0.083629213	-0.522676332	-0.129701821	-0.54024255	-0.181567137
2260	-0.499339185	-0.040024271	-0.502526959	-0.081611563	-0.512339257	-0.126535204	-0.529573260	-0.177051495
2270	-0.474364945	-0.037852850	-0.477366492	-0.077170592	-0.486603453	-0.119613385	-0.502819230	-0.167289258
2280	-0.435259654	-0.034578119	-0.437989506	-0.0704682387	-0.446388452	-0.109214048	-0.461126149	-0.152675694
2290	-0.383328502	-0.030317940	-0.385711572	-0.061788252	-0.393041939	-0.095714089	-0.405898637	-0.133743380
2300	-0.320262223	-0.025217678	-0.322225880	-0.051385343	-0.328292246	-0.079576141	-0.336935417	-0.111444657
2310	-0.249033678	-0.019445569	-0.249548501	-0.039616788	-0.254207722	-0.061333573	-0.262371396	-0.085627916
2320	-0.168935713	-0.011866503	-0.169956788	-0.026860615	-0.173101740	-0.041573084	-0.178610202	-0.058015994
2330	-0.085401783	-0.006637174	-0.085914526	-0.013517826	-0.087490374	-0.020916147	-0.090249302	-0.029176261
2340	-0.000000000	-0.000000000	-0.000000000	-0.000000000	-0.000000000	-0.000000000	-0.000000000	-0.000000000
2350	-0.084674959	-0.006524017	-0.085174671	-0.013283209	-0.086709834	-0.020541881	-0.089395221	-0.028630529
2360	-0.166076430	-0.012740504	-0.167042163	-0.025936294	-0.170026814	-0.040098552	-0.175245522	-0.055865314
2370	-0.241754344	-0.018467616	-0.243156948	-0.037589490	-0.247464140	-0.058099489	-0.254992202	-0.080911957
2380	-0.309487539	-0.023541275	-0.311267972	-0.047909396	-0.316734339	-0.074030931	-0.254992202	-0.103058268
2390	-0.367289653	-0.027819781	-0.369384866	-0.056608333	-0.375816431	-0.0874030240	-0.387048284	-0.121692057
2400	-0.413496672	-0.031187681	-0.415835748	-0.063452175	-0.423014498	-0.09797895	-0.435546198	-0.136317584
2410	-0.446808475	-0.033558792	-0.449314941	-0.068266449	-0.457005953	-0.09797895	-0.450466789	-0.146568249
2420	-0.466325124	-0.034878293	-0.468919277	-0.070946453	-0.457005953	-0.105906615	-0.470426593	-0.136317584
2430	-0.471570252	-0.035123850	-0.474171968	-0.071629988	-0.48152422	-0.110237190	-0.490760830	-0.152215197
2440	-0.462502668	-0.034305746	-0.465033439	-0.069756587	-0.48152422	-0.105906615	-0.490760830	-0.152215197
2450	-0.439513663	-0.032456642	-0.441898503	-0.066006748	-0.47794643	-0.107628672	-0.486322148	-0.149473068
2460	-0.402411587	-0.0297676795	-0.401562860	-0.060327788	-0.449212593	-0.101818724	-0.461955320	-0.143727008
2470	-0.353593632	-0.026037408	-0.357291095	-0.052922482	-0.412239843	-0.0893036751	-0.423834088	-0.129133638
2480	-0.297008203	-0.021671210	-0.298581113	-0.044024141	-0.363107030	-0.067889907	-0.373232749	-0.113216665
2490	-0.230103532	-0.016721372	-0.231312306	-0.0313978224	-0.303401417	-0.061597443	-0.311790683	-0.094165101
2500	-0.146773486	-0.011336274	-0.1475987419	-0.023052976	-0.2330516046	-0.052364764	-0.241459746	-0.072606722
2510								-0.016442726

TABLE 4. TABULATION OF FOURIER TRANSFORMS OF TRIGONOMETRIC FUNCTIONS

$\alpha$	$A_0$	$B_1/j$	$A_1$	$B_2/j$	$A_2$	$B_3/j$	$A_3$	$B_4/j$
2500	-0.156770486	-0.011346394	0.157587419	0.023052976	-0.160000114	-0.0035519629	0.164442726	0.069233325
2510	-0.079277352	-0.005714617	0.079687165	0.018602272	-0.080942427	-0.001883419	0.083124761	0.024779914
2520	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
2530	0.078650654	0.005824167	-0.079500792	-0.011422674	0.080276014	0.0017588353	-0.082404690	-0.024355296
2540	0.154301659	0.010989955	-0.155080475	-0.023237848	0.1514426819	0.003437168	-0.161605939	-0.047556654
2550	0.224689331	0.015939847	-0.225814497	-0.032365925	0.229258639	0.005981597	-0.235238432	-0.068937620
2560	0.287726697	0.020331298	-0.289156241	-0.041277852	0.293531395	0.008518586	-0.301125148	-0.086784113
2570	0.341565386	0.024040777	-0.343248876	-0.048803301	0.348401346	0.011961364	-0.357341364	-0.103841622
2580	0.384648067	0.026967174	-0.386529497	-0.054737563	0.392285866	0.014961515	-0.402770518	-0.116407620
2590	0.415756148	0.029034486	-0.417773989	-0.058926964	0.423946769	0.01762076	-0.434650326	-0.125256808
2600	0.434040984	0.030193707	-0.436131317	-0.061272677	0.442524893	0.0194210862	-0.453607855	-0.130178916
2610	0.439048119	0.030423884	-0.441146318	-0.061732825	0.447562991	0.0204899842	-0.458682569	-0.131092875
2620	0.430727694	0.029732316	-0.432770372	-0.060616330	0.439016330	0.0192714451	-0.449836779	-0.128037302
2630	0.409432861	0.028153899	-0.411359744	-0.057114174	0.417260771	0.01766071	-0.427453271	-0.121169347
2640	0.375906085	0.025749663	-0.377661724	-0.052331159	0.383028496	0.015473040	-0.392320292	-0.110758037
2650	0.331253687	0.022604942	-0.332789090	-0.045846598	0.337481994	0.012450558	-0.345604453	-0.097174403
2660	0.276909903	0.018824464	-0.278183759	-0.038117574	0.282076549	0.008631100	-0.288812458	-0.080878705
2670	0.214590935	0.014532855	-0.215706678	-0.029469348	0.218584330	0.0045251373	-0.223742897	-0.0626405206
2680	0.146241125	0.009866674	-0.146903812	-0.020002308	0.148928405	0.002134338	-0.152429653	-0.042344969
2690	0.073972548	0.004972099	-0.074305253	-0.010080210	0.075321572	0.0015473040	-0.077078660	-0.021327245
2700	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
2710	-0.073426625	-0.004898657	0.073751997	0.0092929311	-0.074745648	-0.0039236093	0.076462599	0.020989793
2720	-0.144090520	-0.009577344	0.144724315	0.019410829	-0.146659600	-0.007979951	0.150002716	0.041015534
2730	-0.209874650	-0.013898309	0.210791022	0.028165555	-0.213588789	-0.0043204056	0.218420508	0.059489453
2740	-0.268824943	-0.017736577	0.269990119	0.035940488	-0.273547051	-0.0035212035	0.279688212	0.07587621
2750	-0.319208098	-0.020983521	0.320581565	0.042515844	-0.324773809	-0.0025194684	0.332009963	0.089725023
2760	-0.359562323	-0.023549882	0.361098185	0.047711154	-0.365785517	-0.0013149288	0.373874140	0.100664277
2770	-0.38875903	-0.025368172	0.390389777	0.051390112	-0.395418363	-0.0018776984	0.404096749	0.108365653
2780	-0.405937811	-0.026394384	0.407646600	0.053466015	-0.412861008	-0.0021854592	0.421854592	0.112694136
2790	-0.41072234	-0.026608977	0.412459142	0.0538693737	-0.417676484	-0.002588511	0.426707507	0.113555366
2800	-0.403038056	-0.026017109	0.404710585	0.052690180	-0.409812508	-0.002731485	0.418607700	0.110976588
2810	-0.383205845	-0.024648132	0.384784729	0.049913221	-0.3896600421	-0.00276464797	0.397900148	0.105087231
2820	-0.351912061	-0.022554364	0.353531701	0.045669214	-0.357742173	-0.0025952444	0.365307210	0.096115449
2830	-0.310184548	-0.019809191	0.311444496	0.04107118	-0.315286513	-0.0021423558	0.321904944	0.084377817
2840	-0.259359276	-0.016504564	0.260405340	0.03413423	-0.263594780	-0.001164572	0.269087751	0.070269484
2850	-0.201037823	-0.012747976	0.201842958	0.025806004	-0.204297529	-0.0039509789	0.208523888	0.054250945
2860	-0.137037138	-0.008659014	0.137582111	0.017527135	-0.139243351	-0.0026830649	0.142103065	0.036833247
2870	-0.06933155	-0.004365593	0.069606955	0.008835866	-0.070441486	-0.0013524036	0.071877747	0.018561901
2880	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
2890	0.068853340	0.004305144	-0.069121481	-0.008712072	0.069938581	0.001330752	-0.071342208	-0.018288935
2900	0.135146670	0.008420875	-0.135669645	-0.017039447	0.137242212	0.0026069195	-0.140001234	-0.035757879
2910	0.194892713	0.012225708	-0.19548892	-0.024736640	0.199952891	0.003789810	-0.203914534	-0.051892476
2920	0.252525342	0.015609190	-0.253215753	-0.031579759	0.256146957	0.004930123	-0.261186016	-0.066226005
2930	0.299598044	0.018475067	-0.300753031	-0.037574903	0.304190183	0.0057157468	-0.31032185	-0.078352698
2940	0.337548303	0.020243980	-0.338618343	-0.041961607	0.342686459	0.0064163277	-0.349933395	-0.087939035
2950	0.365019805	0.022355626	-0.366383877	-0.045218191	0.370537957	0.0069133690	-0.377674785	-0.094732721
2960	0.381252215	0.023270309	-0.382667302	-0.047064668	0.386976299	0.0071947289	-0.394377734	-0.099856900
2970	0.385830165	0.023469853	-0.387252580	-0.047464661	0.391593457	0.0072549262	-0.399020940	-0.099374794
2980	0.378693476	0.022957864	-0.380801922	-0.046442739	0.384301954	0.0070952117	-0.391550571	-0.097168706
2990	0.360136597	0.021759322	-0.361446522	-0.043998755	0.365434106	0.0067234382	-0.372279261	-0.092060043
3000	0.330797337	0.019919551	-0.331992510	-0.040275650	0.335630415	0.0061537330	-0.341874057	-0.0844243804

TABLE 4. (Continued)

$\omega$	$A_0$	$A_1$	$A_2/j$	$A_3$	$B_3/j$	$A_3$	$A_3$	$B_4/j$
3000	.0330797337	.0019919551	-.0331992510	-.040275650	.0335630415	.0061537330	-.0341874057	-.0084243804
3010	.0291635306	.0017502576	-.0222681971	-.0352866151	.0292867536	.0054059876	-.0301333755	-.0073993706
3020	.0243900776	.0014589959	-.0244770317	-.0029493362	.0247416541	.0045051806	-.0251956337	-.0061652854
3030	.0189049482	.0011273149	-.0189764674	-.0022788418	.0191802517	.0034803556	-.0195279796	-.0057622466
3040	.0128923097	.0007660461	-.0129376677	-.0015484354	.0130756770	.0023646945	-.0135123541	-.0032349009
3050	.0065241362	.0003863767	-.0065469388	-.0009000000	.0066163129	.0011928727	-.006752625	-.0001631055
3060	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
3070	-.0064816337	-.0003813416	.0005039925	.0007706585	-.0065720041	-.0011764918	.0066885736	.0016086008
3080	-.0185423235	-.0007462103	.0127684868	.0021899964	-.0129011280	-.0023017375	.0131284285	.0031465976
3090	-.0237606562	.0013843182	.0186054582	.0021899964	-.0187974687	.0033424859	.0191264472	.0045685860
3100	-.0282257965	.0016391382	.0238410360	.0027970225	-.0240854718	.0042684730	.0245041967	.0058332730
3110	-.0318074363	.0018411726	.0283206662	.0033116690	-.0286091408	.0050532917	.0291032169	.0069046619
3120	-.0344028251	.0019850020	.0319136578	.004099204	-.0348640300	.0061173929	.0354582219	.0077530626
3130	-.0359396993	.0020670301	.0360581915	.0041753583	-.0364184028	.0064369077	.0370350187	.0083558987
3140	-.0363782727	.0020885685	.0364974480	.0042125378	-.0368597056	.0064260944	.0374971175	.0087733991
3150	-.0357122528	.0020408630	.0358284484	.0041219801	-.0361818235	.0062862961	.0367864733	.0085825241
3160	-.0359687200	.0019350623	.0340785974	.0039080483	-.0344125362	.0059595001	.0349838660	.0081349269
3170	-.0312072960	.0017721286	.00313076051	.0035787667	-.0346128394	.0054567009	.0321339056	.0074475948
3180	-.0275179395	.0015576960	.00276058346	.0031455334	-.0278729213	.0047956298	.0283297389	.0065443329
3190	-.0230181357	.0012988799	.0230911977	.0026227342	-.0233131933	.0039981644	.0236928260	.0054525227
3200	-.0178491525	.0010040442	.0127054540	.0020272722	-.0180765101	.0030901095	.0183689840	.0042156372
3210	-.0121716216	.0006825340	.0013780271	.0017256867	-.0123256867	.0021002715	.0125238410	.0028668414
3220	-.0061605620	.0003443826	.00061797536	.0006952628	-.0062380526	.0010595537	.0063377011	.0014450555
3230	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
3240	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
3250	.0061226509	.0003401440	-.0061414896	.0006866261	.0061987079	.0010461841	-.0062964784	.0000000000
3260	.0120222765	.0006658366	-.0120504005	.0013440030	.01217706940	.0020476021	-.0123614499	.0014264098
3270	.0175216451	.0009674256	-.0175768979	.0019526550	.0177366163	.0029746013	-.0180128637	.0040545443
3280	.0224567178	.0012361035	-.0225245527	.0024948153	.0227305390	.0038001432	-.0230823511	.0051790805
3290	.0266815280	.00146681624	-.0267616341	.0029349396	.0270048448	.0045005842	-.0274262257	.0061328394
3300	.0300724852	.0016452122	-.0301622241	.00336201472	.0304346831	.0050263452	-.030895881	.0068892191
3310	.0325319766	.0017743577	-.0326284673	.0035805757	.0329214047	.005424502	-.0334215002	.0074279014
3320	.0339911614	.0018483274	-.0340913719	.0037296412	.0343955603	.0056789199	-.0349148411	.0077353839
3330	.0344118796	.0018655524	.0345127203	.0037641967	.0346188198	.0057310107	.0353412327	.0078052999
3340	.0337876215	.0018261937	-.0338860391	.0036845852	.0341847624	.0056092925	-.0346945131	.0076385207
3350	.0321435351	.0017321160	-.0322366040	.0034945869	.0325190728	.0053195670	-.0330010175	.0072430383
3360	.0295354765	.0015868117	-.0296204843	.0032012646	.0298784692	.0048726285	-.0303185776	.0066336364
3370	.0260481386	.0013952758	-.0261226637	.0028147107	.02634488198	.0042838787	-.0267345761	.0058313607
3380	.0217923178	.0011638383	-.0218542974	.0023477080	.0220423696	.0035728063	-.0223631212	.0048628081
3390	.0169014099	.0008999573	-.0169491952	.0018153118	.0170941864	.0027623518	-.0173414305	.0037592572
3400	.0115272416	.0006119810	-.0115596406	.0012343701	.0116579396	.0018781740	-.0118255398	.0025556701
3410	.0058353711	.0003088861	-.0058516759	.0006229944	.0059011418	.0009478457	-.0059854698	.0012895941
3420	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
3430	-.0058013456	-.0003032845	.0058173684	.0006156697	-.0058656640	-.0009365442	.0059487899	.0000000000
3440	-.0113932039	-.0005977928	.0114244838	.0012055147	-.0115193624	-.0018335524	.0116810647	.0024938744
3450	-.0166074723	-.0008688419	.0166528032	.0017520306	-.0167902929	-.0028647134	.0170245579	.0036227350
3460	-.0212884492	-.0011104970	.0213462207	.0022392241	-.0215219321	-.0034054228	.0218199314	.0046304775
3470	-.0252974718	-.0013158014	.0253657266	.0026530775	-.0258577190	-.0040344874	.0259253171	.0054819988
3480	-.0285170118	-.0014789747	.0285935105	.0029819472	-.0295819472	-.004342309	.0292205994	.0061639255
3490	-.0308541096	-.0015955738	.0309364028	.0032168875	-.0311859375	-.0048910842	.0316108962	.0066482765
3500	-.0322430445	-.0016626112	.0323285502	.0033518891	-.0325878102	-.0050959455	.0330202761	.0069225948

TABLE 4. TABULATION OF FOURIER TRANSFORMS OF TRIGONOMETRIC FUNCTIONS

$\psi$	$A_0$	$B_1/j$	$A_1$	$B_2/j$	$A_3$	$B_3/j$	$A_3$	$B_3/j$	$A_3$	$B_4/j$
3500	0.322430445	-0.016626112	0.323285502	0.033518891	-0.325878102	-0.0505959455	0.330292761	0.059294598	0.330292761	0.065929498
3510	0.326471678	-0.016786283	0.327332513	0.033840254	-0.329942473	-0.051444022	0.3334386143	0.065910201	0.3334386143	0.069910201
3520	0.320598454	-0.016437221	0.321448994	0.033135061	-0.323987267	-0.050368098	0.328325378	0.066440625	0.328325378	0.069440625
3530	0.305044879	-0.015595246	0.305840104	0.031436348	-0.308580753	-0.047782251	0.312354346	0.064919578	0.312354346	0.064919578
3540	0.280336726	-0.014291360	0.281063406	0.028806735	-0.283266225	-0.043782001	0.267015337	0.059476095	0.267015337	0.059476095
3550	0.247273879	-0.012570147	0.247911239	0.025336210	-0.249843185	-0.038504417	0.253130889	0.053232781	0.253130889	0.053232781
3560	0.206500591	-0.010468828	0.207434887	0.021139104	-0.209042253	-0.032122517	0.221177259	0.043639532	0.221177259	0.043639532
3570	0.160492380	-0.008112677	0.160901422	0.016350369	-0.162141156	-0.024844596	0.164250386	0.033740614	0.164250386	0.033740614
3580	0.054278898	-0.005518560	0.055194056	0.01121279	-0.055990931	-0.016897687	0.112025409	0.022945753	0.112025409	0.022945753
3590	0.000000000	0.000000000	0.000000000	0.000000000	-0.005590931	-0.008530348	0.056711014	0.011582337	0.056711014	0.011582337
3600	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
3610	0.055120818	0.002752526	0.055258199	-0.005520226	0.055674483	0.008433933	-0.056382404	0.011449054	-0.056382404	0.011449054
3620	0.108266910	0.005396781	0.108535258	-0.010874421	0.109348344	0.016517869	-0.110730902	0.022420696	-0.110730902	0.022420696
3630	0.157839613	0.007846050	0.158228673	-0.015809003	0.159407448	0.024011642	-0.161411593	0.032589139	-0.161411593	0.032589139
3640	0.202357237	0.010031206	0.202853286	-0.020211046	0.204356132	0.030695855	-0.206910978	0.041656548	-0.206910978	0.041656548
3650	0.240499252	0.011889151	0.241085566	-0.023953491	0.242861788	0.036376921	-0.245881043	0.049361692	-0.245881043	0.049361692
3660	0.271145358	0.013367349	0.271802769	-0.026930823	0.273794268	0.040895275	-0.277179088	0.055487392	-0.277179088	0.055487392
3670	0.293408290	0.014425298	0.294115798	-0.029068023	0.296258943	0.044127139	-0.299901112	0.059866574	-0.299901112	0.059866574
3680	0.306659391	0.015035617	0.307394828	-0.030289154	0.309622460	0.045989189	-0.313460780	0.063296726	-0.313460780	0.063296726
3690	0.310546230	0.015184729	0.311286949	-0.030959467	0.313830458	0.046440348	-0.317342379	0.065926680	-0.317342379	0.065926680
3700	0.292046858	0.01415187	0.292969692	-0.028431628	0.2950716748	0.045842561	-0.311639766	0.061687625	-0.311639766	0.061687625
3710	0.266772046	0.0112938618	0.267398108	-0.025858544	0.269294051	0.043558544	-0.296526944	0.058532359	-0.296526944	0.058532359
3720	0.235341091	0.0081383452	0.235890427	-0.022927457	0.237553929	0.040802005	-0.274379191	0.053642811	-0.274379191	0.053642811
3730	0.198948616	0.00500721	0.197403870	-0.019134718	0.198788460	0.034802005	-0.240378784	0.047185937	-0.240378784	0.047185937
3740	0.152788745	0.0027350796	0.153141584	-0.014804155	0.154209944	0.022467465	-0.156024060	0.030458252	-0.156024060	0.030458252
3750	0.104235695	0.0005001469	0.104475127	-0.005086522	0.105200069	0.015285292	-0.106430923	0.020719783	-0.106430923	0.020719783
3760	0.052781473	0.0002525828	0.052902070	-0.000000000	0.053267189	0.007718570	-0.053887051	0.010461867	-0.053887051	0.010461867
3770	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
3780	0.052502943	-0.000499181	0.052621638	0.005032493	-0.052980963	-0.007635639	0.053590870	0.010347619	-0.053590870	0.010347619
3790	0.103138477	-0.004896493	0.103370417	0.009859503	-0.104072536	-0.014958593	0.105264172	0.020269716	-0.105264172	0.020269716
3800	0.150382623	-0.007120584	0.150719029	0.014337386	-0.151737337	-0.021751008	0.153465443	0.029471243	-0.153465443	0.029471243
3810	0.192822079	-0.009106076	0.193251161	0.018334550	-0.194549943	-0.027813366	0.196753812	0.037682098	-0.196753812	0.037682098
3820	0.229196415	-0.010795478	0.229703774	0.021735208	-0.231239420	-0.032970309	0.233844971	0.044684997	-0.233844971	0.044684997
3830	0.258635620	-0.012140837	0.259004521	0.024443153	-0.260126965	-0.037079667	0.262649165	0.050222268	-0.262649165	0.050222268
3840	0.276905010	-0.013105085	0.278030205	0.025838362	-0.282157534	-0.040016554	0.285303211	0.054201387	-0.285303211	0.054201387
3850	0.296102220	-0.013802055	0.297644176	0.027784824	-0.299424530	-0.041716425	0.299195188	0.056499091	-0.299195188	0.056499091
3860	0.290852206	0.013522246	0.291479526	0.027220623	-0.293778830	0.042136995	0.301981800	0.057063957	0.301981800	0.057063957
3870	0.276814505	0.0112836382	0.277408476	0.025839096	-0.279205784	0.0439181736	0.296597220	0.055897408	0.296597220	0.055897408
3880	0.254459490	0.011769355	0.255002691	0.023690428	-0.256646299	0.045921526	0.282453361	0.053053098	0.282453361	0.053053098
3890	0.224506974	0.010357310	0.224983787	0.020847446	-0.226264632	0.043608977	0.268872409	0.048634747	0.268872409	0.048634747
3900	0.187903149	0.008646437	0.188300179	0.017403190	-0.189501401	0.036385318	0.228872409	0.042792474	0.228872409	0.042792474
3910	0.147907888	0.006691478	0.1483667267	0.013467892	-0.147024488	0.0263385319	0.191537861	0.035717797	0.191537861	0.035717797
3920	0.099473658	0.004553987	0.099681709	0.009165482	-0.100311114	0.0213094443	0.1468596288	0.027637397	0.1468596288	0.027637397
3930	0.050376242	-0.002300403	0.050481070	0.004429708	-0.050708190	0.007018041	0.101377973	0.018805939	0.101377973	0.018805939
3940	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.051335670	0.0069498083	0.051335670	0.0069498083
3950	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
3960	0.050122457	0.002272736	0.050225707	-0.004828793	0.050538625	0.006946179	-0.051067277	0.0009399379	-0.051067277	0.0009399379
3970	0.050122457	0.004427223	0.050225707	-0.008960665	0.0509286245	0.013611350	-0.100320689	0.0018417104	-0.100320689	0.0018417104
3980	0.098473923	0.006491336	0.099192589	-0.013062589	0.144777024	0.019796987	-0.146277736	0.026784680	-0.146277736	0.026784680
3990	0.143598445	0.008303343	0.144518736	-0.016708396	0.185648841	0.025321063	-0.1817563429	0.034256010	-0.1817563429	0.034256010
4000	0.184145086	0.008303343	0.184518736	-0.016708396	0.185648841	0.025321063	-0.1817563429	0.034256010	-0.1817563429	0.034256010



TABLE 4. (Continued)

$\omega$	$A_0$	$B_1/j$	$A_1$	$B_2/j$	$A_3$	$B_3/j$	$A_3$	$B_3/j$	$A_3$	$B_4/j$
4000	.0184145086	.0008303343	-.0184518736	-.0016708396	.0185648841	.0025321063	-.0187563429	-.0034256010	-.0187563429	-.0034256010
4010	.0218908297	.0009846147	-.0219350268	-.0019812295	.0220686957	.0030023373	-.0222951345	-.0040614588	-.0222951345	-.0040614588
4020	.0246863685	.0011075804	-.0247359516	-.0022285920	.0248859439	.0033770146	-.0251399973	-.0045679724	-.0251399973	-.0045679724
4030	.0267198120	.0011958264	-.0267732236	-.0024060816	.0269347473	.0036457810	-.0272083286	-.00549311628	-.0272083286	-.00549311628
4040	.0279333306	.0012470298	-.0279888914	-.0025090314	.0281569077	.0038015817	-.0284414628	-.0051415202	-.0284414628	-.0051415202
4050	.0282942121	.0012600094	-.0283502125	-.0025350713	.0285195518	.0038408433	-.0288063245	-.0051944240	-.0288063245	-.0051944240
4060	.0277957280	.0012347499	-.0278504706	-.0024841773	.0280159999	.0037635471	-.0282962983	-.0050893488	-.0282962983	-.0050893488
4070	.0264572094	.0011723908	-.0265090594	-.0023586490	.0266658369	.0035731938	-.0269172941	-.0048315961	-.0269172941	-.0048315961
4080	.0243233336	.0010751809	-.0243707681	-.0021630166	.0245141880	.0032766630	-.0247570096	-.0044303215	-.0247570096	-.0044303215
4090	.0214828472	.0009463994	-.0215042980	-.0019038850	.0216302261	.0028839718	-.0218434161	-.0038909777	-.0218434161	-.0038909777
4100	.0179853742	.0007902469	-.0180000680	-.0015897036	.0181049580	.0024079414	-.0182825177	-.0032552840	-.0182825177	-.0032552840
4110	.0139405790	.0006117096	-.0139673692	-.0012305134	.01408483612	.0018657825	-.0141854555	-.0025194648	-.0141854555	-.0025194648
4120	.0095127722	.0004164014	-.0095309645	-.0008376083	.0095859613	.0012686129	-.0096790467	-.0017147963	-.0096790467	-.0017147963
4130	.0048180667	.0002103880	-.0048272361	-.0004231922	.0048549551	.0006409222	-.0049018676	-.0008662819	-.0049018676	-.0008662819
4140	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
4150	-.0047948471	-.0002083613	.0048038844	.0004190922	-.0048312021	-.0006346533	.0048774285	.0008576938	-.0006346533	.0048774285
4160	-.0094213032	-.0004084172	.0094389751	.0008214569	-.0094239908	-.0012439177	.0095827733	.0016809645	-.0012439177	.0095827733
4170	-.0137399951	-.0005942005	.0137656440	.0011950937	-.0138431686	-.0023151040	.0139743352	.0024452720	-.0023151040	.0139743352
4180	-.0209504122	-.0009016818	.0209891479	.0018134222	-.0211062193	-.0034089978	.0213042678	.0037096089	-.0034089978	.0213042678
4190	-.0236283812	-.0010145083	.0236718602	.0020402796	-.0238032623	-.0033085989	.0240255381	.0041732212	-.0033085989	.0240255381
4200	-.0255773972	-.0010955732	.0256242389	.0022032512	-.0257657988	-.0033555890	.0258052400	.0045060769	-.0033555890	.0258052400
4210	-.0267418616	-.0011427272	.0267806033	.0023980200	-.0269379012	-.0034789091	.0271870300	.0046993911	-.0034789091	.0271870300
4220	-.0270920231	-.0011548658	.0271393463	.0025232304	-.0272878516	-.0035156177	.0275390053	.0047486790	-.0035156177	.0275390053
4230	-.0266157207	-.0011319527	.0266637753	.0022762347	-.0268608959	-.0034456467	.0270543505	.0046538485	-.0034456467	.0270543505
4240	-.0235366688	-.0010750108	.0235821987	.0021616751	-.02255197754	-.0030011855	.0236760191	.0044191612	-.0030011855	.0236760191
4250	-.0205578986	-.0008681520	.0205944952	.0017456266	-.0207050709	-.0022064559	.0208920262	.0035678796	-.0022064559	.0208920262
4260	-.0172098211	-.0007250599	.0172443143	.0011287029	-.0173324456	-.0017081972	.0174882057	.0029794261	-.0017081972	.0174882057
4270	-.0133565596	-.0005613656	.0133792134	.0007684660	-.0134503759	-.0011629602	.0135706774	.0023064773	-.0011629602	.0135706774
4280	-.0091145631	-.0003822096	.0091305626	.0005838339	-.0091788998	-.0005876700	.0092606093	.0015701823	-.0005876700	.0092606093
4300	-.0046168481	-.0001931519	.0046249148	.0003883393	-.0046492848	-.0002000000	.0046904773	.0007934013	-.0002000000	.0046904773
4310	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000
4320	.0045955232	.0001913686	-.0046034785	-.0003847353	.0046275104	.0005821682	-.0046681261	-.0007858810	.0005821682	-.0046681261
4330	.0090305579	.0003751846	-.0090461186	-.0007542683	.0090931240	.0011412864	-.0091725613	-.0015405568	.0011412864	-.0091725613
4340	.0131714436	.0005459601	-.0131940350	-.0010975677	.0132622768	.0016606670	-.0133775953	-.0022415093	.0016606670	-.0133775953
4350	.0168960446	.0006985613	-.0169228880	-.0014044964	.0170100122	.0021249780	-.0171572299	-.0028680553	.0021249780	-.0171572299
4370	.0200874661	.0008288075	-.0201216047	-.0016661097	.0202242700	.0025606938	-.0203989477	-.0034019541	.0025606938	-.0203989477
4380	.0226573519	.0009326993	-.0226956820	-.0018749141	.0228114544	.0028364863	-.0230070557	-.0038279345	.0028364863	-.0230070557
4390	.0245286657	.0010074248	-.0245699724	-.0020250805	.0246947315	.0031958494	-.0249055029	-.0041341285	.0031958494	-.0249055029
4400	.02566478763	.0010509902	-.0256908714	-.0021126048	.0258207258	.0033202060	-.0260600917	-.0043123977	.0033202060	-.0260600917
4410	.0259844805	.0010623609	-.0260278422	-.0021135412	.0261587999	.00331665361	-.0263800159	-.0043585436	.00331665361	-.0263800159
4420	.0255318226	.0010414847	-.0255742360	-.0020934021	.0257023259	.0030766425	-.0259186844	-.0042723984	.0030766425	-.0259186844
4430	.0243071879	.0009982842	-.0243473846	-.0019884333	.0246687762	.0027591993	-.0246738080	-.0040577922	.0027591993	-.0246738080
4440	.0223511714	.0009076203	-.0223879669	-.0018242500	.0224990836	.0024495344	-.0226867497	-.0037224006	.0024495344	-.0226867497
4450	.0197263432	.0007992272	-.0197586714	-.0016063520	.0198562952	.0020393540	-.020211631	-.0032774775	.0020393540	-.020211631
4460	.0165152543	.0006676224	-.0165421987	-.0013418122	.0162256260	.0015713977	-.0167609609	-.0027374819	.0015713977	-.0167609609
4470	.0128178478	.0005169933	-.0128386663	-.00103904296	.0129015296	.0010070354	-.013076810	-.0021196127	.0010070354	-.013076810
4480	.0087483530	.0003726498	-.0087624985	-.0007056167	.0088052106	.0005408185	-.0088773305	-.0014432635	.0005408185	-.0088773305
4490	.0044317629	.0002179513	-.0044388968	-.0003576297	.0044604370	.0002500000	-.0044968057	-.0007294177	.0002500000	-.0044968057
4500	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000	.0000000000

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