TABLES OF PSI AND B IN TOKAPOLE II

J.C. Sprott

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TABLES OF PSI AND B IN TOKAPOLE II

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Attached are the computer printouts of ψ and B on a half-cm grid in the upper half plane of Tokapole II for the design case without plasma and without soak-in at either the hoops or walls. The index I corresponds to the horizontal position from the inner wall (I=1) to the outer wall (I=89). The index J corresponds to the vertical position from the midplane (J=1) to the lid (J=45). The machine was designed to be symmetric about the horizontal midplane. ψ is normalized so as to be 0 at the surface of the hoops and 10 at walls. B is in units of kG for a total flux of 0.15 webers in the core. Also shown are currents in each hoop, currents in each wall, inductance, forces on each hoop, maximum B in the machine, ψ at the separatrix and $\psi_{critical}$, all for a core flux of 0.15 webers. Other cases, including different hoop positions and different amounts of soak-in are available in 3285 Chamberlin.

CASE 10 DATE 07/01/77
FOR A TOTAL FLUX OF 0.15 WEBERS:

THE INPUT PARAMETERS ARE:

RZERO	WR	HZ	X1	Y1	X2	Y2	D1	D2	PW	PH	H	EPS
28.00	44.00	22.00	7.74	7.74	7.50	7.50	5.00	5.00	10.00	.00	.50	.10-05

CURRENTS:

INNER WALL	241.1	KA
OUTER WALL	115.3	KA
TOP OR BOTTOM	164.7	KA
INNER HOOP	223.5	KA
OUTER HOOP	121.3	KA
TOTAL FOUR	689.6	KA

INDUCTANCE: .218 MICROHENRIES

VERTICAL FORCES:

INNER HOOP:	20652.6	LB
OUTER HOOP:	7193.5	LB

CASE 10 DATE 07/01/77
FOR A TOTAL FLUX OF 0.15 WEBERS:

TABLE OF PSI FUNCTION

I	J = 1	J = 2	J = 3	J = 4	J = 5	J = 6	J = 7	J = 8	J = 9	J = 10
1	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01
2	9.75958+00	9.75899+00	9.75724+00	9.75428+00	9.75011+00	9.74468+00	9.73795+00	9.72986+00	9.72035+00	9.70934+00
3	9.51612+00	9.51494+00	9.51140+00	9.50547+00	9.49709+00	9.48619+00	9.47267+00	9.45641+00	9.43728+00	9.41514+00
4	9.27082+00	9.26905+00	9.26374+00	9.25483+00	9.24225+00	9.22587+00	9.20555+00	9.18112+00	9.15236+00	9.11906+00
5	9.02491+00	9.02256+00	9.01549+00	9.00364+00	8.98689+00	8.96509+00	6.93804+00	8.90550+00	8.86716+00	8.62278+00
6	8.77962+00	8.77670+00	8.76792+00	8.75319+00	8.73236+00	8.70525+00	8.67160+00	8.63110+00	8.58338+00	8.52803+00
7	8.53619+00	8.53271+00	8.52227+00	8.50475+00	8.47999+00	8.44773+00	8.40768+00	8.35945+00	8.30259+00	8.23658+00
8	8.29580+00	8.29180+00	8.27978+00	8.25960+00	8.23107+00	8.19390+00	8.14773+00	8.09210+00	8.02647+00	7.95021+00
9	8.05965+00	8.05515+00	8.04164+00	8.01896+00	7.98690+00	7.94510+00	7.89317+00	7.83056+00	7.75665+00	7.67070+00
10	7.82883+00	7.82388+00	7.80900+00	7.78402+00	7.74868+00	7.70262+00	7.64536+00	7.57630+00	7.49473+00	7.39979+00
11	7.60441+00	7.59904+00	7.58292+00	7.55585+00	7.51757+00	7.46765+00	7.40559+00	7.33071+00	7.24221+00	7.13914+00
12	7.38738+00	7.38165+00	7.36443+00	7.33554+00	7.29466+00	7.24136+00	7.17508+00	7.09509+00	7.00053+00	6.89033+00
13	7.17861+00	7.17257+00	7.15443+00	7.12399+00	7.08092+00	7.02476+00	6.95492+00	6.87063+00	6.77095+00	6.65478+00
14	6.97890+00	6.97261+00	6.95373+00	6.92203+00	6.87719+00	6.81874+00	6.74604+00	6.65832+00	6.55459+00	6.43369+00
15	6.78891+00	6.78244+00	6.76299+00	6.73036+00	6.68421+00	6.62405+00	6.54925+00	6.45902+00	6.35236+00	6.22808+00
16	6.60922+00	6.60262+00	6.58281+00	6.54956+00	6.50255+00	6.44129+00	6.36517+00	6.27338+00	6.16495+00	6.03868+00
17	6.44024+00	6.43358+00	6.41359+00	6.38006+00	6.33266+00	6.27092+00	6.19425+00	6.10187+00	5.99283+00	5.86598+00
18	6.28229+00	6.27563+00	6.25566+00	6.22215+00	6.17481+00	6.11320+00	6.03675+00	5.94471+00	5.83621+00	5.71016+00
19	6.13554+00	6.12895+00	6.10916+00	6.07600+00	6.02917+00	5.96826+00	5.89275+00	5.80197+00	5.69510+00	5.57115+00
20	6.00005+00	5.99357+00	5.97416+00	5.94162+00	5.89571+00	5.83605+00	5.76217+00	5.67348+00	5.56924+00	5.44860+00
21	5.87575+00	5.86945+00	5.85055+00	5.81891+00	5.77429+00	5.71638+00	5.64476+00	5.55891+00	5.45822+00	5.34194+00
22	5.76246+00	5.75638+00	5.73815+00	5.70764+00	5.66466+00	5.60893+00	5.54012+00	5.45778+00	5.36142+00	5.25043+00
23	5.65992+00	5.65410+00	5.63666+00	5.60749+00	5.56643+00	5.51327+00	5.44772+00	5.36946+00	5.27807+00	5.17312+00
24	5.56775+00	5.56222+00	5.54568+00	5.51802+00	5.47913+00	5.42884+00	5.36695+00	5.29320+00	5.20733+00	5.10900+00
25	5.48551+00	5.48030+00	5.46474+00	5.43873+00	5.40219+00	5.35503+00	5.29708+00	5.22821+00	5.14822+00	5.05695+00
26	5.41269+00	5.40783+00	5.39330+00	5.36905+00	5.33502+00	5.29115+00	5.23737+00	5.17360+00	5.09976+00	5.01580+00
27	5.34874+00	5.34424+00	5.33079+00	5.30836+00	5.27692+00	5.23647+00	5.18698+00	5.12846+00	5.06091+00	4.98439+00
28	5.29305+00	5.28891+00	5.27657+00	5.25600+00	5.22721+00	5.19023+00	5.14510+00	5.09187+00	5.03065+00	4.96157+00
29	5.24499+00	5.24122+00	5.22999+00	5.21129+00	5.18516+00	5.15165+00	5.11087+00	5.06291+00	5.00795+00	4.94621+00
30	5.20392+00	5.20052+00	5.19039+00	5.17355+00	5.15005+00	5.11998+00	5.08307+00	5.04068+00	4.99185+00	4.93724+00
31	5.16920+00	5.16616+00	5.15711+00	5.14209+00	5.12115+00	5.09443+00	5.06208+00	5.02431+00	4.98139+00	4.93364+00
32	5.14018+00	5.13748+00	5.12949+00	5.11622+00	5.09777+00	5.07428+00	5.04593+00	5.01297+00	4.97569+00	4.93447+00
33	5.11623+00	5.11387+00	5.10688+00	5.09529+00	5.07921+00	5.05880+00	5.03426+00	5.00586+00	4.97393+00	4.93886+00
34	5.09674+00	5.09470+00	5.08866+00	5.07866+00	5.06483+00	5.04732+00	5.02637+00	5.00226+00	4.97533+00	4.94601+00
35	5.08114+00	5.07939+00	5.07424+00	5.06574+00	5.05400+00	5.03921+00	5.02161+00	5.00148+00	4.97919+00	4.95518+00
36	5.06886+00	5.06739+00	5.06307+00	5.05595+00	5.04615+00	5.03388+00	5.01936+00	5.00290+00	4.98497+00	4.96571+00
37	5.05940+00	5.05818+00	5.05462+00	5.04876+00	5.04075+00	5.03076+00	5.01906+00	5.00594+00	4.99178+00	4.97702+00
38	5.05227+00	5.05128+00	5.04841+00	5.04370+00	5.03729+00	5.02937+00	5.02021+00	5.01009+00	4.99940+00	4.98858+00
39	5.04705+00	5.04627+00	5.04400+00	5.04031+00	5.03533+00	5.02926+00	5.02234+00	5.01489+00	5.00728+00	4.99993+00
40	5.04335+00	5.04274+00	5.04101+00	5.03822+00	5.03449+00	5.03002+00	5.02507+00	5.01994+00	5.01499+00	5.01066+00
41	5.04082+00	5.04036+00	5.03909+00	5.03706+00	5.03440+00	5.03131+00	5.02803+00	5.02488+00	5.02220+00	5.02043+00
42	5.03916+00	5.03884+00	5.03795+00	5.03655+00	5.03478+00	5.03283+00	5.03094+00	5.02941+00	5.02861+00	5.02695+00
43	5.03814+00	5.03791+00	5.03733+00	5.03643+00	5.03537+00	5.03432+00	5.03353+00	5.03330+00	5.03398+00	5.03597+00
44	5.03755+00	5.03740+00	5.03704+00	5.03652+00	5.03597+00	5.03559+00	5.03561+00	5.03633+00	5.03810+00	5.04131+00
45	5.03725+00	5.03715+00	5.03693+00	5.03666+00	5.03645+00	5.03650+00	5.03704+00	5.03837+00	5.04083+00	5.04482+00
46	5.03714+00	5.03707+00	5.03692+00	5.03675+00	5.03670+00	5.03694+00	5.03772+00	5.03932+00	5.04208+00	5.04640+00
47	5.03718+00	5.03710+00	5.03694+00	5.03676+00	5.03667+00	5.03687+00	5.03760+00	5.03913+00	5.04181+00	5.04602+00

48	5.03739+00	5.03727+00	5.03702+00	5.03668+00	5.03638+00	5.03631+00	5.03669+00	5.03781+00	5.04001+00	5.04368+00
49	5.03780+00	5.03764+00	5.03722+00	5.03659+00	5.03590+00	5.03531+00	5.03506+00	5.03543+00	5.03675+00	5.03942+00
50	5.03856+00	5.03831+00	5.03764+00	5.03660+00	5.03532+00	5.03398+00	5.03281+00	5.03208+00	5.03213+00	5.03336+00
51	5.03981+00	5.03946+00	5.03846+00	5.03688+00	5.03483+00	5.03250+00	5.03011+00	5.02794+00	5.02632+00	5.02564+00
52	5.04180+00	5.04131+00	5.03990+00	5.03764+00	5.03465+00	5.03109+00	5.02719+00	5.02323+00	5.01954+00	5.01650+00
53	5.04478+00	5.04413+00	5.04225+00	5.03918+00	5.03505+00	5.03002+00	5.02433+00	5.01823+00	5.01205+00	5.00619+00
54	5.04911+00	5.04827+00	5.04582+00	5.04182+00	5.03637+00	5.02965+00	5.02186+00	5.01328+00	5.00422+00	4.99506+00
55	5.05515+00	5.05410+00	5.05102+00	5.04596+00	5.03902+00	5.03037+00	5.02020+00	5.00879+00	4.99643+00	4.98351+00
56	5.06335+00	5.06207+00	5.05829+00	5.05204+00	5.04344+00	5.03263+00	5.01981+00	5.00522+00	4.98917+00	4.97201+00
57	5.07421+00	5.07267+00	5.06811+00	5.06057+00	5.05014+00	5.03696+00	5.02121+00	5.00313+00	4.98298+00	4.96113+00
58	5.08825+00	5.08643+00	5.08103+00	5.07209+00	5.05968+00	5.04392+00	5.02499+00	5.00316+00	4.97849+00	4.95149+00
59	5.10607+00	5.10396+00	5.09766+00	5.08721+00	5.07268+00	5.05417+00	5.03182+00	5.00581+00	4.97638+00	4.94381+00
60	5.12830+00	5.12587+00	5.11863+00	5.10659+00	5.08981+00	5.06837+00	5.04239+00	5.01202+00	4.97744+00	4.93890+00
61	5.15560+00	5.15284+00	5.14461+00	5.13091+00	5.11179+00	5.08729+00	5.05750+00	5.02252+00	4.98251+00	4.93764+00
62	5.18867+00	5.18557+00	5.17632+00	5.16092+00	5.13937+00	5.11170+00	5.07796+00	5.03820+00	4.99252+00	4.94103+00
63	5.22823+00	5.22479+00	5.21451+00	5.19736+00	5.17334+00	5.14244+00	5.10465+00	5.05999+00	5.00846+00	4.95013+00
64	5.27503+00	5.27125+00	5.25993+00	5.24104+00	5.21453+00	5.18037+00	5.13850+00	5.08886+00	5.03140+00	4.96608+00
65	5.32982+00	5.32570+00	5.31335+00	5.29273+00	5.26377+00	5.22637+00	5.18044+00	5.12585+00	5.06245+00	4.99010+00
66	5.39333+00	5.38888+00	5.37554+00	5.35324+00	5.32189+00	5.28135+00	5.23145+00	5.17199+00	5.10275+00	5.02347+00
67	5.46630+00	5.46154+00	5.44725+00	5.42336+00	5.38973+00	5.34618+00	5.29248+00	5.22836+00	5.15349+00	5.06748+00
68	5.54942+00	5.54437+00	5.52921+00	5.50383+00	5.46808+00	5.42173+00	5.36449+00	5.29600+00	5.21582+00	5.12346+00
69	5.64334+00	5.63803+00	5.62208+00	5.59537+00	5.55771+00	5.50883+00	5.44837+00	5.37590+00	5.29088+00	5.19270+00
70	5.74868+00	5.74315+00	5.72652+00	5.69866+00	5.65935+00	5.60827+00	5.54501+00	5.46906+00	5.37978+00	5.27645+00
71	5.86597+00	5.86025+00	5.84307+00	5.81426+00	5.77361+00	5.72073+00	5.65516+00	5.57632+00	5.48351+00	5.37585+00
72	5.99565+00	5.98980+00	5.97222+00	5.94272+00	5.90105+00	5.84681+00	5.77950+00	5.69847+00	5.60294+00	5.49195+00
73	6.13810+00	6.13216+00	6.11433+00	6.08440+00	6.04210+00	5.98701+00	5.91858+00	5.83613+00	5.73881+00	5.62559+00
74	6.29355+00	6.28760+00	6.26968+00	6.23961+00	6.19709+00	6.14168+00	6.07282+00	5.98978+00	5.89166+00	5.77744+00
75	6.46217+00	6.45624+00	6.43842+00	6.40851+00	6.36620+00	6.31105+00	6.24248+00	6.15974+00	6.06192+00	5.94794+00
76	6.64397+00	6.63814+00	6.62060+00	6.59115+00	6.54950+00	6.49519+00	6.42764+00	6.34611+00	6.24969+00	6.13728+00
77	6.83885+00	6.83318+00	6.81610+00	6.78745+00	6.74690+00	6.69402+00	6.62825+00	6.54884+00	6.45492+00	6.34542+00
78	7.04659+00	7.04113+00	7.02472+00	6.99716+00	6.95816+00	6.90731+00	6.84404+00	6.76767+00	6.67734+00	6.57204+00
79	7.26684+00	7.26166+00	7.24608+00	7.21992+00	7.18291+00	7.13464+00	7.07460+00	7.00214+00	6.91645+00	6.81659+00
80	7.49913+00	7.49429+00	7.47971+00	7.45524+00	7.42063+00	7.37549+00	7.31935+00	7.25162+00	7.17155+00	7.07829+00
81	7.74286+00	7.73840+00	7.72500+00	7.70249+00	7.67066+00	7.62916+00	7.57756+00	7.51532+00	7.44176+00	7.35619+00
82	7.99732+00	7.99331+00	7.98122+00	7.96093+00	7.93224+00	7.89484+00	7.84835+00	7.79229+00	7.72610+00	7.64911+00
83	8.26171+00	8.25817+00	8.24754+00	8.22970+00	8.20446+00	8.17158+00	8.13071+00	8.08146+00	8.02334+00	7.95578+00
84	8.53511+00	8.53210+00	8.52304+00	8.50784+00	8.48634+00	8.45834+00	8.42355+00	8.38164+00	8.33220+00	8.27479+00
85	8.81653+00	8.81407+00	8.80669+00	8.79430+00	8.77679+00	8.75397+00	8.72564+00	8.69153+00	8.65131+00	8.60462+00
86	9.10489+00	9.10302+00	9.09740+00	9.08797+00	9.07464+00	9.05727+00	9.03572+00	9.00977+00	8.97919+00	8.94372+00
87	9.39906+00	9.39779+00	9.39400+00	9.38764+00	9.37865+00	9.36695+00	9.35242+00	9.33493+00	9.31432+00	9.29043+00
88	9.69784+00	9.69720+00	9.69529+00	9.69208+00	9.68755+00	9.68165+00	9.67433+00	9.66551+00	9.65513+00	9.64310+00
89	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01

TABLE OF PSI FUNCTION

I	J = 11	J = 12	J = 13	J = 14	J = 15	J = 16	J = 17	J = 18	J = 19	J = 20
1	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01
2	9.69675+00	9.68252+00	9.66656+00	9.64882+00	9.62925+00	9.60783+00	9.58461+00	9.55968+00	9.53324+00	9.50559+00
3	9.38983+00	9.36119+00	9.32906+00	9.29330+00	9.25383+00	9.21058+00	9.16363+00	9.11315+00	9.05949+00	9.00325+00
4	9.08097+00	9.03782+00	8.98937+00	8.93540+00	8.87571+00	8.81022+00	8.73895+00	8.66211+00	8.58018+00	8.49399+00
5	8.77194+00	8.71430+00	8.64950+00	8.57718+00	8.49705+00	8.40890+00	8.31268+00	8.20856+00	8.09709+00	7.97918+00
6	8.46460+00	8.39260+00	8.31152+00	8.22086+00	8.12016+00	8.00904+00	7.88730+00	7.75497+00	7.61248+00	7.46076+00
7	8.16085+00	8.07477+00	7.97765+00	7.86882+00	7.74759+00	7.61335+00	7.46564+00	7.30423+00	7.12929+00	6.94157+00
8	7.86263+00	7.76291+00	7.65020+00	7.52359+00	7.38212+00	7.22488+00	7.05102+00	6.85993+00	6.65129+00	6.42541+00
9	7.57187+00	7.45917+00	7.33155+00	7.18783+00	7.02674+00	6.84699+00	6.64725+00	6.42631+00	6.18320+00	5.91742+00

10	7.29050+00	7.16571+00	7.02412+00	6.86430+00	6.68462+00	6.48332+00	6.25854+00	6.00831+00	5.73075+00	5.42419+00
11	7.02037+00	6.88459+00	6.73030+00	6.55575+00	6.35896+00	6.13771+00	5.88946+00	5.61144+00	5.30061+00	4.95381+00
12	6.76326+00	6.61785+00	6.45239+00	6.26488+00	6.05298+00	5.81399+00	5.54474+00	5.24157+00	4.90020+00	4.51571+00
13	6.52075+00	6.36728+00	6.19249+00	5.99416+00	5.76965+00	5.51582+00	5.22895+00	4.90454+00	4.53712+00	4.12001+00
14	6.29420+00	6.13445+00	5.95243+00	5.74575+00	5.51156+00	5.24643+00	4.94617+00	4.60565+00	4.21848+00	3.77652+00
15	6.08474+00	5.92061+00	5.73363+00	5.52135+00	5.28078+00	5.00835+00	4.69962+00	4.34914+00	3.95000+00	3.49327+00
16	5.89315+00	5.72665+00	5.53712+00	5.32212+00	5.07868+00	4.80323+00	4.49137+00	4.13766+00	3.73520+00	3.27515+00
17	5.71995+00	5.55309+00	5.36342+00	5.14861+00	4.90584+00	4.63172+00	4.32211+00	3.97195+00	3.57492+00	3.12305+00
18	5.56528+00	5.40002+00	5.21256+00	5.00076+00	4.76206+00	4.49340+00	4.19114+00	3.85088+00	3.46728+00	3.03386+00
19	5.42896+00	5.26714+00	5.08409+00	4.87790+00	4.64638+00	4.38691+00	4.09649+00	3.77159+00	3.40810+00	3.00132+00
20	5.31052+00	5.15382+00	4.97713+00	4.77885+00	4.55719+00	4.31008+00	4.03521+00	3.72999+00	3.39163+00	3.01721+00
21	5.20923+00	5.05910+00	4.89044+00	4.70200+00	4.49240+00	4.26015+00	4.00362+00	3.72119+00	3.41128+00	3.07255+00
22	5.12413+00	4.98177+00	4.82251+00	4.64543+00	4.44958+00	4.23399+00	3.99773+00	3.74001+00	3.46029+00	3.15857+00
23	5.05410+00	4.92046+00	4.77163+00	4.60702+00	4.42609+00	4.22833+00	4.01343+00	3.78130+00	3.53226+00	3.26729+00
24	4.99789+00	4.87367+00	4.73600+00	4.58459+00	4.41926+00	4.23993+00	4.04677+00	3.84026+00	3.62138+00	3.39176+00
25	4.95420+00	4.83984+00	4.71376+00	4.57594+00	4.42648+00	4.26567+00	4.09406+00	3.91256+00	3.72260+00	3.52624+00
26	4.92168+00	4.81742+00	4.70310+00	4.57894+00	4.44528+00	4.30269+00	4.15200+00	3.99443+00	3.83169+00	3.66608+00
27	4.89899+00	4.80487+00	4.70227+00	4.59159+00	4.47338+00	4.34839+00	4.21768+00	4.08265+00	3.94517+00	3.80761+00
28	4.88483+00	4.80072+00	4.70962+00	4.61204+00	4.50869+00	4.40048+00	4.28860+00	4.17454+00	4.06023+00	3.94804+00
29	4.87797+00	4.80360+00	4.72360+00	4.63860+00	4.54939+00	4.45699+00	4.36264+00	4.26790+00	4.17468+00	4.08524+00
30	4.87721+00	4.81223+00	4.74284+00	4.66977+00	4.59386+00	4.51619+00	4.43803+00	4.36095+00	4.28676+00	4.21764+00
31	4.88148+00	4.82542+00	4.76607+00	4.70420+00	4.64069+00	4.57664+00	4.51332+00	4.45224+00	4.39516+00	4.34407+00
32	4.88977+00	4.84211+00	4.79217+00	4.74072+00	4.68867+00	4.63711+00	4.58729+00	4.54066+00	4.49885+00	4.46373+00
33	4.90114+00	4.86134+00	4.82013+00	4.77830+00	4.73677+00	4.69659+00	4.65897+00	4.62529+00	4.59708+00	4.57603+00
34	4.91478+00	4.88224+00	4.84907+00	4.81605+00	4.78409+00	4.75421+00	4.72756+00	4.70544+00	4.68926+00	4.68059+00
35	4.92993+00	4.90406+00	4.87822+00	4.85321+00	4.82990+00	4.80927+00	4.79242+00	4.78055+00	4.77499+00	4.77714+00
36	4.94592+00	4.92610+00	4.90691+00	4.88912+00	4.87356+00	4.86118+00	4.85302+00	4.85020+00	4.85394+00	4.86553+00
37	4.96216+00	4.94779+00	4.93455+00	4.92320+00	4.91453+00	4.90946+00	4.90895+00	4.91406+00	4.92591+00	4.94568+00
38	4.97812+00	4.96859+00	4.96064+00	4.95497+00	4.95238+00	4.95371+00	4.95988+00	4.97188+00	4.99073+00	5.01753+00
39	4.99334+00	4.98807+00	4.98474+00	4.98404+00	4.98672+00	4.99359+00	5.00553+00	5.02344+00	5.04829+00	5.08108+00
40	5.00742+00	5.00583+00	5.00648+00	5.01004+00	5.01724+00	5.02884+00	5.04567+00	5.06859+00	5.09851+00	5.13634+00
41	5.02003+00	5.02154+00	5.02555+00	5.03270+00	5.04368+00	5.05923+00	5.08014+00	5.10722+00	5.14132+00	5.18330+00
42	5.03088+00	5.03494+00	5.04169+00	5.05176+00	5.06582+00	5.08458+00	5.10879+00	5.13922+00	5.17668+00	5.22198+00
43	5.03974+00	5.04579+00	5.05469+00	5.06704+00	5.08349+00	5.10474+00	5.13149+00	5.16450+00	5.20454+00	5.25238+00
44	5.04642+00	5.05392+00	5.06438+00	5.07838+00	5.09655+00	5.11958+00	5.14815+00	5.18300+00	5.22487+00	5.27450+00
45	5.05077+00	5.05920+00	5.07063+00	5.08565+00	5.10490+00	5.12901+00	5.15870+00	5.19466+00	5.23762+00	5.28831+00
46	5.05272+00	5.06152+00	5.07335+00	5.08879+00	5.10844+00	5.13297+00	5.16306+00	5.19941+00	5.24274+00	5.29377+00
47	5.05221+00	5.06085+00	5.07251+00	5.08773+00	5.10714+00	5.13140+00	5.16119+00	5.19721+00	5.24018+00	5.29084+00
48	5.04924+00	5.05720+00	5.06808+00	5.08247+00	5.10098+00	5.12428+00	5.15305+00	5.18801+00	5.22990+00	5.27945+00
49	5.04387+00	5.05059+00	5.06012+00	5.07304+00	5.08998+00	5.11161+00	5.13863+00	5.17179+00	5.21182+00	5.25951+00
50	5.03619+00	5.04112+00	5.04869+00	5.05950+00	5.07418+00	5.09342+00	5.11794+00	5.14851+00	5.18590+00	5.23093+00
51	5.02635+00	5.02892+00	5.03393+00	5.04195+00	5.05366+00	5.06976+00	5.09100+00	5.11816+00	5.15208+00	5.19361+00
52	5.01455+00	5.01420+00	5.01600+00	5.02057+00	5.02857+00	5.04074+00	5.05786+00	5.08076+00	5.11032+00	5.14744+00
53	5.00107+00	4.99721+00	4.99516+00	4.99555+00	4.99908+00	5.00650+00	5.01862+00	5.03634+00	5.06057+00	5.09231+00
54	4.98624+00	4.97826+00	4.97170+00	4.96718+00	4.96543+00	4.96723+00	4.97343+00	4.98497+00	5.00285+00	5.02813+00
55	4.97045+00	4.95775+00	4.94599+00	4.93581+00	4.92794+00	4.92320+00	4.92249+00	4.92679+00	4.93719+00	4.95483+00
56	4.95417+00	4.93613+00	4.91847+00	4.90185+00	4.88699+00	4.87475+00	4.86607+00	4.86199+00	4.86367+00	4.87237+00
57	4.93797+00	4.91397+00	4.88971+00	4.86583+00	4.84308+00	4.82232+00	4.80454+00	4.79084+00	4.78246+00	4.78077+00
58	4.92248+00	4.89191+00	4.86033+00	4.82838+00	4.79680+00	4.76647+00	4.73840+00	4.71375+00	4.69384+00	4.68016+00
59	4.90844+00	4.87070+00	4.83110+00	4.79026+00	4.74890+00	4.70790+00	4.66828+00	4.63126+00	4.59822+00	4.57078+00
60	4.89669+00	4.85121+00	4.80290+00	4.75235+00	4.70025+00	4.64746+00	4.59499+00	4.54408+00	4.49619+00	4.45303+00
61	4.88817+00	4.83440+00	4.77675+00	4.71571+00	4.65193+00	4.58621+00	4.51955+00	4.45317+00	4.38857+00	4.32756+00
62	4.88391+00	4.82139+00	4.75380+00	4.68154+00	4.60518+00	4.52543+00	4.44322+00	4.35975+00	4.27649+00	4.19532+00
63	4.88506+00	4.81341+00	4.73537+00	4.65124+00	4.56147+00	4.46665+00	4.36759+00	4.26538+00	4.16145+00	4.05765+00
64	4.89287+00	4.81179+00	4.72292+00	4.62640+00	4.52252+00	4.41168+00	4.29454+00	4.17201+00	4.04539+00	3.91642+00
65	4.90867+00	4.81802+00	4.71808+00	4.60880+00	4.49026+00	4.36264+00	4.22636+00	4.08206+00	3.93080+00	3.77412+00
66	4.93387+00	4.83366+00	4.72259+00	4.60039+00	4.46688+00	4.32196+00	4.16572+00	3.99845+00	3.82083+00	3.63401+00

67	4.96993+00	4.86037+00	4.73833+00	4.60329+00	4.45479+00	4.29238+00	4.11572+00	3.92465+00	3.71930+00	3.50026+00
68	5.01836+00	4.89985+00	4.76725+00	4.61977+00	4.45660+00	4.27689+00	4.07983+00	3.86466+00	3.63082+00	3.37807+00
69	5.08062+00	4.95381+00	4.81134+00	4.65213+00	4.47503+00	4.27873+00	4.06186+00	3.82300+00	3.56070+00	3.27368+00
70	5.15817+00	5.02394+00	4.87258+00	4.70274+00	4.51287+00	4.30124+00	4.06587+00	3.80456+00	3.51490+00	3.19433+00
71	5.25235+00	5.11182+00	4.95285+00	4.77383+00	4.57286+00	4.34774+00	4.09592+00	3.81441+00	3.49977+00	3.14803+00
72	5.36437+00	5.21887+00	5.05386+00	4.86748+00	4.65752+00	4.42137+00	4.15595+00	3.85753+00	3.52169+00	3.14305+00
73	5.49524+00	5.34632+00	5.17709+00	4.98549+00	4.76907+00	4.52490+00	4.24945+00	3.93843+00	3.58657+00	3.18731+00
74	5.64576+00	5.49512+00	5.32368+00	5.12927+00	4.90926+00	4.66052+00	4.37925+00	4.06077+00	3.69927+00	3.28742+00
75	5.81646+00	5.66591+00	5.49443+00	5.29977+00	5.07928+00	4.82974+00	4.54724+00	4.22700+00	3.86306+00	3.44786+00
76	6.00757+00	5.85699+00	5.68969+00	5.49746+00	5.27968+00	5.03320+00	4.75423+00	4.43815+00	4.07923+00	3.67031+00
77	6.21905+00	6.07431+00	5.90941+00	5.72224+00	5.51033+00	5.27072+00	4.99991+00	4.69367+00	4.34692+00	3.95340+00
78	6.45055+00	6.31145+00	6.15309+00	5.97351+00	5.77045+00	5.54126+00	5.28286+00	4.99164+00	4.66336+00	4.29305+00
79	6.70144+00	6.56970+00	6.41986+00	6.25019+00	6.05869+00	5.84309+00	5.60081+00	5.32895+00	5.02425+00	4.68315+00
80	6.97084+00	6.84802+00	6.70651+00	6.55081+00	6.37323+00	6.17391+00	5.95079+00	5.70170+00	5.42435+00	5.11052+00
81	7.25764+00	7.14515+00	7.01755+00	6.87361+00	6.71193+00	6.53105+00	6.32945+00	6.10560+00	5.85808+00	5.58581+00
82	7.56057+00	7.45960+00	7.34528+00	7.21657+00	7.07240+00	6.91165+00	6.73326+00	6.53627+00	6.31997+00	6.08412+00
83	7.87816+00	7.78977+00	7.68984+00	7.57758+00	7.45215+00	7.31278+00	7.15875+00	6.98956+00	6.80501+00	6.60541+00
84	8.20888+00	8.13392+00	8.04931+00	7.95443+00	7.84869+00	7.73156+00	7.60262+00	7.46166+00	7.30882+00	7.14471+00
85	8.55108+00	8.49025+00	8.42168+00	8.34492+00	8.25957+00	8.16527+00	8.06182+00	7.94919+00	7.82769+00	7.69805+00
86	8.90306+00	8.85691+00	8.80495+00	8.74687+00	8.68239+00	8.61133+00	8.53357+00	8.44921+00	8.35857+00	8.26233+00
87	9.26307+00	9.23202+00	9.19710+00	9.15810+00	9.11488+00	9.06731+00	9.01537+00	8.95915+00	8.89894+00	8.83523+00
88	9.62932+00	9.61369+00	9.59612+00	9.57652+00	9.55480+00	9.53093+00	9.50490+00	9.47677+00	9.44669+00	9.41493+00
89	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01

TABLE OF PSI FUNCTION

I	J = 21	J = 22	J = 23	J = 24	J = 25	J = 26	J = 27	J = 28	J = 29	J = 30
1	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01
2	9.47717+00	9.44859+00	9.42065+00	9.39429+00	9.37063+00	9.35089+00	9.33628+00	9.32794+00	9.32677+00	9.33337+00
3	8.94530+00	8.88685+00	8.82949+00	8.77518+00	8.72621+00	8.68512+00	8.65448+00	8.63671+00	8.63374+00	8.64685+00
4	8.40478+00	8.31434+00	8.22507+00	8.13997+00	8.06267+00	7.99721+00	7.94781+00	7.91843+00	7.91232+00	7.93162+00
5	7.85639+00	7.73101+00	7.60622+00	7.48615+00	7.37590+00	7.28135+00	7.20878+00	7.16423+00	7.15274+00	7.17760+00
6	7.30156+00	7.13749+00	6.97241+00	6.81160+00	6.66164+00	6.53128+00	6.42893+00	6.36370+00	6.34338+00	6.37283+00
7	6.74269+00	6.53542+00	6.32410+00	6.11504+00	5.91682+00	5.74039+00	5.59852+00	5.50445+00	5.46982+00	5.50237+00
8	6.18348+00	5.92801+00	5.66341+00	5.39665+00	5.13806+00	4.90192+00	4.70618+00	4.57061+00	4.51338+00	4.54680+00
9	5.62930+00	5.32053+00	4.99490+00	4.65924+00	4.32490+00	4.00971+00	3.73867+00	3.54187+00	3.44868+00	3.47959+00
10	5.08757+00	4.72101+00	4.32673+00	3.91005+00	3.48094+00	3.05995+00	2.68110+00	2.39100+00	2.23937+00	2.26248+00
11	4.56798+00	4.14069+00	3.67132+00	3.16376+00	2.61805+00	2.05544+00	1.51844+00	1.08048+00	8.30094-01	8.36786-01
12	4.08252+00	3.59460+00	3.04611+00	2.43327+00	1.74581+00	9.94057-01	2.19503-01	0.00000	0.00000	0.00000
13	3.64494+00	3.10163+00	2.47730+00	1.75644+00	9.12452-01	0.00000	0.00000	0.00000	0.00000	0.00000
14	3.26922+00	2.68252+00	1.99697+00	1.18442+00	1.98749-01	0.00000	0.00000	0.00000	0.00000	0.00000
15	2.96716+00	2.35550+00	1.63517+00	7.71285-01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	2.74584+00	2.13138+00	1.40945+00	5.47136-01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
17	2.60609+00	2.01068+00	1.31906+00	5.07417-01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
18	2.54270+00	1.98418+00	1.34692+00	6.18435-01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
19	2.54596+00	2.03636+00	1.46721+00	8.35147-01	1.43688-01	0.00000	0.00000	0.00000	0.00000	0.00000
20	2.60391+00	2.14952+00	1.65332+00	1.11785+00	5.54075-01	0.00000	0.00000	0.00000	0.00000	0.00000
21	2.70427+00	2.30681+00	1.88250+00	1.43691+00	9.83654-01	5.41481-01	1.36939-01	0.00000	0.00000	0.00000
22	2.83567+00	2.49374+00	2.13697+00	1.77227+00	1.41350+00	1.07746+00	7.86653-01	5.69345-01	4.57993-01	4.86698-01
23	2.98829+00	2.69856+00	2.40331+00	2.11050+00	1.83168+00	1.58174+00	1.37904+00	1.24495+00	1.20225+00	1.27201+00
24	3.15402+00	2.91202+00	2.67131+00	2.43955+00	2.22680+00	2.04554+00	1.91033+00	1.83711+00	1.84176+00	1.93783+00
25	3.32645+00	3.12729+00	2.93416+00	2.75407+00	2.59567+00	2.46919+00	2.38603+00	2.35807+00	2.39655+00	2.51051+00
26	3.50067+00	3.33946+00	3.18751+00	3.05101+00	2.93729+00	2.85468+00	2.81208+00	2.81840+00	2.88174+00	3.00635+00
27	3.67303+00	3.54518+00	3.42867+00	3.32689+00	3.25200+00	3.20473+00	3.19408+00	3.22680+00	3.30683+00	3.44466+00
28	3.84087+00	3.74220+00	3.65611+00	3.58726+00	3.54082+00	3.52223+00	3.53701+00	3.59035+00	3.68671+00	3.82938+00

29	4.00232+00	3.92905+00	3.86905+00	3.82631+00	3.80514+00	3.80997+00	3.84520+00	3.91486+00	4.02235+00	4.17014+00
30	4.15607+00	4.10489+00	4.06725+00	4.04656+00	4.04647+00	4.07055+00	4.12235+00	4.20505+00	4.32128+00	4.47293+00
31	4.30126+00	4.26925+00	4.25079+00	4.24880+00	4.26631+00	4.30631+00	4.37163+00	4.46483+00	4.58798+00	4.74253+00
32	4.43735+00	4.42195+00	4.41993+00	4.43380+00	4.46610+00	4.51930+00	4.59574+00	4.69745+00	4.82609+00	4.98282+00
33	4.56401+00	4.56299+00	4.57508+00	4.60242+00	4.64716+00	4.71137+00	4.79697+00	4.90561+00	5.03863+00	5.19696+00
34	4.68107+00	4.69249+00	4.71667+00	4.75546+00	4.81069+00	4.88410+00	4.97728+00	5.09158+00	5.22810+00	5.38757+00
35	4.78850+00	4.81065+00	4.84519+00	4.89371+00	4.95779+00	5.03689+00	5.13834+00	5.25728+00	5.39658+00	5.55685+00
36	4.88632+00	4.91770+00	4.96108+00	5.01786+00	5.08940+00	5.17693+00	5.28159+00	5.40431+00	5.54583+00	5.70663+00
37	4.97458+00	5.01386+00	5.06479+00	5.12856+00	5.20637+00	5.29927+00	5.40824+00	5.53405+00	5.67731+00	5.83843+00
38	5.05338+00	5.09940+00	5.15671+00	5.22638+00	5.30943+00	5.40680+00	5.51931+00	5.64763+00	5.79227+00	5.95354+00
39	5.12282+00	5.17453+00	5.23720+00	5.31179+00	5.39921+00	5.50026+00	5.61568+00	5.74602+00	5.89172+00	6.05304+00
40	5.18301+00	5.23945+00	5.30657+00	5.38522+00	5.47622+00	5.58030+00	5.69806+00	5.83001+00	5.97652+00	6.13780+00
41	5.23402+00	5.29433+00	5.36507+00	5.44703+00	5.54092+00	5.64741+00	5.76703+00	5.90024+00	6.04736+00	6.20855+00
42	5.27593+00	5.33932+00	5.41293+00	5.49748+00	5.59364+00	5.70201+00	5.82307+00	5.95723+00	6.10477+00	6.26584+00
43	5.30879+00	5.37452+00	5.45029+00	5.53680+00	5.63465+00	5.74440+00	5.86652+00	6.00136+00	6.14918+00	6.31011+00
44	5.33263+00	5.39999+00	5.47726+00	5.56511+00	5.66411+00	5.77480+00	5.89762+00	6.03289+00	6.18086+00	6.34165+00
45	5.34745+00	5.41575+00	5.49389+00	5.58249+00	5.68214+00	5.79333+00	5.91650+00	6.05197+00	6.19998+00	6.36062+00
46	5.35323+00	5.42180+00	5.50017+00	5.58896+00	5.68874+00	5.80001+00	5.92321+00	6.05866+00	6.20658+00	6.36708+00
47	5.34990+00	5.41808+00	5.49605+00	5.58444+00	5.68385+00	5.79478+00	5.91767+00	6.05286+00	6.20059+00	6.36096+00
48	5.33740+00	5.40449+00	5.48141+00	5.56882+00	5.66733+00	5.77748+00	5.89972+00	6.03442+00	6.18182+00	6.34206+00
49	5.31561+00	5.38090+00	5.45609+00	5.54190+00	5.63897+00	5.74786+00	5.86908+00	6.00302+00	6.14995+00	6.31005+00
50	5.28440+00	5.34712+00	5.41988+00	5.50341+00	5.59844+00	5.70557+00	5.82536+00	5.95824+00	6.10455+00	6.26447+00
51	5.24361+00	5.30295+00	5.37248+00	5.45302+00	5.54535+00	5.65015+00	5.76805+00	5.89955+00	6.04503+00	6.20471+00
52	5.19307+00	5.24814+00	5.31358+00	5.39032+00	5.47921+00	5.58105+00	5.69654+00	5.82626+00	5.97066+00	6.13002+00
53	5.13257+00	5.18239+00	5.24279+00	5.31482+00	5.39945+00	5.49758+00	5.61004+00	5.73752+00	5.88053+00	6.03946+00
54	5.06193+00	5.10539+00	5.15968+00	5.22597+00	5.30537+00	5.39894+00	5.50765+00	5.63231+00	5.77357+00	5.93188+00
55	4.98094+00	5.01682+00	5.06376+00	5.12312+00	5.19618+00	5.28419+00	5.38828+00	5.50944+00	5.64847+00	5.80593+00
56	4.88944+00	4.91632+00	4.95452+00	5.00556+00	5.07097+00	5.15221+00	5.25065+00	5.36748+00	5.50369+00	5.65998+00
57	4.78727+00	4.80358+00	4.83140+00	4.87252+00	4.92672+00	5.00175+00	5.09327+00	5.20473+00	5.33737+00	5.49208+00
58	4.67437+00	4.67828+00	4.69385+00	4.72314+00	4.76828+00	4.83136+00	4.91440+00	5.01922+00	5.14735+00	5.29993+00
59	4.55075+00	4.54018+00	4.54131+00	4.55653+00	4.58838+00	4.63939+00	4.71204+00	4.80861+00	4.93102+00	5.08074+00
60	4.41659+00	4.38916+00	4.37329+00	4.37176+00	4.38765+00	4.42398+00	4.48384+00	4.57010+00	4.68525+00	4.83119+00
61	4.27229+00	4.22527+00	4.18942+00	4.16801+00	4.16462+00	4.18303+00	4.22708+00	4.30043+00	4.40630+00	4.54721+00
62	4.11851+00	4.04882+00	3.98953+00	3.94442+00	3.91778+00	3.91423+00	3.93862+00	3.99565+00	4.08959+00	4.22381+00
63	3.95636+00	3.86052+00	3.77377+00	3.70046+00	3.64566+00	3.61508+00	3.61482+00	3.65106+00	3.72950+00	3.85477+00
64	3.78748+00	3.66162+00	3.54281+00	3.43594+00	3.34700+00	3.28294+00	3.25157+00	3.26100+00	3.31904+00	3.43221+00
65	3.61422+00	3.45416+00	3.29808+00	3.15139+00	3.02097+00	2.91528+00	2.84422+00	2.81864+00	2.84940+00	2.94592+00
66	3.43986+00	3.24120+00	3.04214+00	2.84838+00	2.66765+00	2.50996+00	2.38781+00	2.31578+00	2.30928+00	2.38240+00
67	3.26880+00	3.02717+00	2.77910+00	2.53020+00	2.28868+00	2.06596+00	1.87748+00	1.74274+00	1.68402+00	1.72315+00
68	3.10677+00	2.81820+00	2.51514+00	2.20255+00	1.88842+00	1.58466+00	1.30953+00	1.08867+00	9.54471-01	9.41974-01
69	2.96100+00	2.62245+00	2.25911+00	1.87437+00	1.47562+00	1.07195+00	6.83707-01	3.42806-01	9.59060-02	0.00000
70	2.84027+00	2.45038+00	2.02312+00	1.55875+00	1.06107+00	5.35394-01	0.00000	0.00000	0.00000	0.00000
71	2.75467+00	2.31475+00	1.82309+00	1.27507+00	6.68089-01	0.00000	0.00000	0.00000	0.00000	0.00000
72	2.71513+00	2.23004+00	1.67836+00	1.04910+00	3.30441-01	0.00000	0.00000	0.00000	0.00000	0.00000
73	2.73239+00	2.21126+00	1.61020+00	9.11292-01	9.12176-02	0.00000	0.00000	0.00000	0.00000	0.00000
74	2.81577+00	2.27187+00	1.63885+00	8.93070-01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
75	2.97162+00	2.42134+00	1.77918+00	1.01964+00	1.04145-01	0.00000	0.00000	0.00000	0.00000	0.00000
76	3.20223+00	2.66298+00	2.03643+00	1.30004+00	4.21233-01	0.00000	0.00000	0.00000	0.00000	0.00000
77	3.50538+00	2.99312+00	2.40428+00	1.72294+00	9.28523-01	0.00000	0.00000	0.00000	0.00000	0.00000
78	3.87488+00	3.40208+00	2.86702+00	2.26155+00	1.57871+00	8.20149-01	0.00000	0.00000	0.00000	0.00000
79	4.30184+00	3.87655+00	3.40403+00	2.88273+00	2.31507+00	1.71480+00	1.10962+00	5.57712-01	1.53451-01	0.00000
80	4.77624+00	4.40224+00	3.99465+00	3.55639+00	3.09536+00	2.62789+00	2.18228+00	1.80262+00	1.54593+00	1.46708+00
81	5.28826+00	4.96597+00	4.62127+00	4.25936+00	3.88987+00	3.52866+00	3.19931+00	2.93324+00	2.76598+00	2.72881+00
82	5.82918+00	5.55684+00	5.27052+00	4.97619+00	4.68327+00	4.40551+00	4.16121+00	3.97240+00	3.86193+00	3.84878+00
83	6.39185+00	6.16651+00	5.93316+00	5.69758+00	5.46810+00	5.25588+00	5.07467+00	4.93991+00	4.86670+00	4.86708+00
84	6.97068+00	6.78902+00	6.60328+00	6.41859+00	6.24180+00	6.08161+00	5.94814+00	5.85220+00	5.80393+00	5.81123+00
85	7.56158+00	7.42038+00	7.27752+00	7.13717+00	7.00471+00	6.88662+00	6.79017+00	6.72287+00	6.69154+00	6.70142+00

86	8.16162+00	8.05815+00	7.95429+00	7.85321+00	7.75882+00	7.67571+00	7.60891+00	7.56342+00	7.54376+00	7.55332+00
87	8.76884+00	8.70097+00	8.63324+00	8.56774+00	8.50705+00	8.45409+00	8.41199+00	8.38386+00	8.37244+00	8.37979+00
88	9.38193+00	9.34828+00	9.31482+00	9.28260+00	9.25286+00	9.22706+00	9.20669+00	9.19324+00	9.18800+00	9.19196+00
89	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01

TABLE OF PSI FUNCTION

I	J = 31	J = 32	J = 33	J = 34	J = 35	J = 36	J = 37	J = 38	J = 39	J = 40
1	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01
2	9.34794+00	9.37030+00	9.39986+00	9.43578+00	9.47705+00	9.52259+00	9.57136+00	9.62245+00	9.67507+00	9.72863+00
3	8.67647+00	8.72215+00	8.78267+00	8.85620+00	8.94057+00	9.03351+00	9.13286+00	9.23671+00	9.34350+00	9.45201+00
4	7.97700+00	8.04770+00	8.14160+00	8.25562+00	8.38616+00	8.52953+00	8.68228+00	8.84140+00	9.00451+00	9.16978+00
5	7.23986+00	7.33818+00	7.46920+00	7.62811+00	7.80941+00	8.00760+00	8.21768+00	8.43545+00	8.65765+00	8.88190+00
6	6.45361+00	6.58355+00	6.75730+00	6.96752+00	7.20606+00	7.46507+00	7.73770+00	8.01641+00	8.30307+00	8.58883+00
7	5.60430+00	5.77193+00	5.99677+00	6.26753+00	6.57230+00	6.90010+00	7.24189+00	7.59073+00	7.94172+00	8.29174+00
8	4.67415+00	4.88900+00	5.17750+00	5.52210+00	5.90535+00	6.31226+00	6.73129+00	7.15424+00	7.57574+00	7.99273+00
9	3.63962+00	3.91713+00	4.28863+00	4.72629+00	5.20452+00	5.70336+00	6.20906+00	6.71262+00	7.20879+00	7.69509+00
10	2.46835+00	2.83457+00	3.31957+00	3.87812+00	4.47299+00	5.07685+00	5.68139+00	6.27200+00	6.84637+00	7.40345+00
11	1.11405+00	1.61507+00	2.26299+00	2.98229+00	3.72113+00	4.44872+00	5.15835+00	5.84146+00	6.49612+00	7.12392+00
12	0.00000	2.08938-01	1.10147+00	2.03912+00	2.95759+00	3.82923+00	4.65520+00	5.43357+00	6.16788+00	6.86396+00
13	0.00000	0.00000	0.00000	1.08688+00	2.21850+00	3.24828+00	4.19328+00	5.06427+00	5.87336+00	6.63204+00
14	0.00000	0.00000	0.00000	2.02804-01	1.56077+00	2.74511+00	3.79922+00	4.79176+00	5.62506+00	6.43682+00
15	0.00000	0.00000	0.00000	0.00000	1.05992+00	2.36445+00	3.50070+00	4.51373+00	5.43467+00	6.28606+00
16	0.00000	0.00000	0.00000	0.00000	7.83805-01	2.14412+00	3.31977+00	4.36367+00	5.31069+00	6.18536+00
17	0.00000	0.00000	0.00000	0.00000	7.66608-01	2.10147+00	3.26617+00	4.30742+00	5.25685+00	6.13712+00
18	0.00000	0.00000	0.00000	0.00000	9.86962-01	2.22534+00	3.33376+00	4.30146+00	5.27100+00	6.14001+00
19	0.00000	0.00000	0.00000	1.94664-01	1.37747+00	2.48039+00	3.50259+00	4.45387+00	5.34575+00	6.18930+00
20	0.00000	0.00000	0.00000	8.81450-01	1.85971+00	2.82131+00	3.74534+00	4.62751+00	5.47000+00	6.27766+00
21	0.00000	1.72828-01	8.01291-01	1.55590+00	2.37190+00	3.20691+00	4.03450+00	4.84384+00	5.63112+00	6.39646+00
22	6.81661-01	1.04695+00	1.56196+00	2.18617+00	2.87854+00	3.60704+00	4.34700+00	5.08589+00	5.81683+00	6.53688+00
23	1.46820+00	1.79241+00	2.23206+00	2.76401+00	3.36194+00	4.00210+00	4.66565+00	5.33976+00	6.01636+00	6.69082+00
24	2.13354+00	2.42939+00	2.81749+00	3.28346+00	3.80991+00	4.37982+00	4.97860+00	5.59499+00	6.22104+00	6.85143+00
25	2.70513+00	2.98053+00	3.33156+00	3.74877+00	4.22032+00	4.73393+00	5.27836+00	5.84424+00	6.42430+00	7.01322+00
26	3.20170+00	3.46179+00	3.78511+00	4.16521+00	4.59379+00	5.06184+00	5.56070+00	6.08271+00	6.62150+00	7.17207+00
27	3.63669+00	3.88491+00	4.18685+00	4.53797+00	4.93226+00	5.36301+00	5.82351+00	6.30750+00	6.80953+00	7.32505+00
28	4.02008+00	4.25882+00	4.54382+00	4.87176+00	5.23821+00	5.63866+00	6.06605+00	6.51707+00	6.98648+00	7.47020+00
29	4.35952+00	4.59049+00	4.86173+00	5.17077+00	5.51425+00	5.88821+00	6.28845+00	6.71079+00	7.15129+00	7.60631+00
30	4.66099+00	4.88545+00	5.14530+00	5.43865+00	5.76290+00	6.11493+00	6.49134+00	6.88667+00	7.30353+00	7.73275+00
31	4.92926+00	5.14815+00	5.39841+00	5.67856+00	5.98653+00	6.31981+00	6.67562+00	7.05106+00	7.44321+00	7.84926+00
32	5.16822+00	5.38227+00	5.62434+00	5.89324+00	6.18728+00	6.50442+00	6.84234+00	7.19857+00	7.57059+00	7.95590+00
33	5.38104+00	5.59084+00	5.82584+00	6.08506+00	6.36710+00	6.67026+00	6.99257+00	7.33192+00	7.68611+00	8.05289+00
34	5.57035+00	5.77639+00	6.00524+00	6.25607+00	6.52772+00	6.81672+00	7.12739+00	7.45190+00	7.79029+00	8.14057+00
35	5.73836+00	5.94105+00	6.16452+00	6.40806+00	6.67066+00	6.95107+00	7.24781+00	7.55928+00	7.88372+00	8.21934+00
36	5.88691+00	6.08661+00	6.30537+00	6.54255+00	6.79729+00	7.06846+00	7.35478+00	7.65480+00	7.96696+00	8.28963+00
37	6.01755+00	6.21459+00	6.42922+00	6.66087+00	6.90876+00	7.17191+00	7.44915+00	7.73916+00	8.04058+00	8.35185+00
38	6.13157+00	6.32625+00	6.53728+00	6.76414+00	7.00611+00	7.26231+00	7.53168+00	7.81304+00	8.10506+00	8.40643+00
39	6.23006+00	6.42267+00	6.63058+00	6.85331+00	7.09021+00	7.34044+00	7.60305+00	7.87696+00	8.16094+00	8.45371+00
40	6.31391+00	6.50473+00	6.70997+00	6.92919+00	7.16177+00	7.40696+00	7.66384+00	7.93142+00	8.20856+00	8.49405+00
41	6.38385+00	6.57314+00	6.77615+00	6.99243+00	7.22142+00	7.46240+00	7.71453+00	7.97685+00	8.24829+00	8.52772+00
42	6.44045+00	6.62848+00	6.82965+00	7.04355+00	7.26964+00	7.50722+00	7.75551+00	8.01358+00	8.28042+00	8.55495+00
43	6.48415+00	6.67117+00	6.87091+00	7.08295+00	7.30679+00	7.54175+00	7.78707+00	8.04187+00	8.30517+00	8.57593+00
44	6.51524+00	6.70151+00	6.90020+00	7.11091+00	7.33313+00	7.56622+00	7.80943+00	8.06190+00	8.32270+00	8.59077+00
45	6.53390+00	6.71968+00	6.91770+00	7.12758+00	7.34881+00	7.58076+00	7.82270+00	8.07379+00	8.33308+00	8.59956+00
46	6.54017+00	6.72572+00	6.92346+00	7.13301+00	7.35387+00	7.58542+00	7.82692+00	8.07754+00	8.33634+00	8.60231+00
47	6.53399+00	6.71955+00	6.91739+00	7.12712+00	7.34824+00	7.58012+00	7.82202+00	8.07310+00	8.33243+00	8.59898+00

48	6.51515+00	6.70099+00	6.89930+00	7.10972+00	7.33173+00	7.56469+00	7.80784+00	8.06034+00	8.32123+00	8.58945+00
49	6.48333+00	6.66969+00	6.86887+00	7.08050+00	7.30405+00	7.53885+00	7.78414+00	8.03903+00	8.30254+00	8.57358+00
50	6.43804+00	6.62519+00	6.82564+00	7.03902+00	7.26478+00	7.50223+00	7.75057+00	8.00886+00	8.27609+00	8.55113+00
51	6.37869+00	6.56687+00	6.76901+00	6.98470+00	7.21338+00	7.45432+00	7.70666+00	7.96943+00	8.24154+00	8.52182+00
52	6.30448+00	6.49395+00	6.69821+00	6.91682+00	7.14916+00	7.39448+00	7.65186+00	7.92024+00	8.19847+00	8.48529+00
53	6.21446+00	6.40549+00	6.61232+00	6.83447+00	7.07130+00	7.32197+00	7.58548+00	7.86070+00	8.14636+00	8.44112+00
54	6.10747+00	6.30033+00	6.51020+00	6.73660+00	6.97879+00	7.23587+00	7.50672+00	7.79010+00	8.08463+00	8.38884+00
55	5.98213+00	6.17708+00	6.39053+00	6.62193+00	6.87047+00	7.13513+00	7.41465+00	7.70766+00	8.01261+00	8.32790+00
56	5.83676+00	6.03409+00	6.25169+00	6.48896+00	6.74496+00	7.01851+00	7.30820+00	7.61245+00	7.92954+00	8.25770+00
57	5.66938+00	5.86940+00	6.09182+00	6.33593+00	6.60066+00	6.88462+00	7.18616+00	7.50347+00	7.83462+00	8.17760+00
58	5.47764+00	5.68067+00	5.90867+00	6.16078+00	6.43573+00	6.73184+00	7.04718+00	7.37963+00	7.72697+00	8.08694+00
59	5.25869+00	5.46511+00	5.69960+00	5.96110+00	6.24804+00	6.55637+00	6.88978+00	7.23975+00	7.60569+00	7.98505+00
60	5.00912+00	5.21938+00	5.46146+00	5.73406+00	6.03515+00	6.36220+00	6.71236+00	7.08260+00	7.46989+00	7.87131+00
61	4.72475+00	4.93941+00	5.19051+00	5.47634+00	5.79427+00	6.14110+00	6.51323+00	6.90698+00	7.31876+00	7.74521+00
62	4.40047+00	4.62024+00	4.88220+00	5.18404+00	5.52226+00	5.89267+00	6.29069+00	6.71178+00	7.15166+00	7.60645+00
63	4.02987+00	4.25571+00	4.53103+00	4.85257+00	5.21556+00	5.61438+00	6.04313+00	6.49612+00	6.96824+00	7.45502+00
64	3.60478+00	3.83807+00	4.13022+00	4.47652+00	4.87025+00	5.30373+00	5.76921+00	6.25957+00	6.76666+00	7.29143+00
65	3.11458+00	3.35733+00	3.67132+00	4.04951+00	4.48212+00	4.95844+00	5.46819+00	6.00241+00	6.55384+00	7.11688+00
66	2.54503+00	2.80031+00	3.14368+00	3.56412+00	4.04696+00	4.57693+00	5.14037+00	5.72613+00	6.32584+00	6.93355+00
67	1.87638+00	2.14911+00	2.53367+00	3.01200+00	3.56117+00	4.15913+00	4.78788+00	5.43400+00	6.08827+00	6.74487+00
68	1.07993+00	1.37842+00	1.82370+00	2.38442+00	3.02316+00	3.70779+00	4.41576+00	5.13185+00	5.80683+00	6.55589+00
69	1.11410-01	4.51023-01	9.90985-01	1.67453+00	2.43654+00	3.23047+00	4.03349+00	4.82911+00	5.60986+00	6.37348+00
70	0.00000	0.00000	0.00000	8.74028-01	1.80621+00	2.74264+00	3.65702+00	4.53968+00	5.38864+00	6.20640+00
71	0.00000	0.00000	0.00000	0.00000	1.16951+00	2.27413+00	3.31086+00	4.28244+00	5.19728+00	6.06497+00
72	0.00000	0.00000	0.00000	0.00000	5.86028-01	1.87252+00	3.02811+00	4.08030+00	5.05165+00	5.96024+00
73	0.00000	0.00000	0.00000	0.00000	1.60306-01	1.59856+00	2.84606+00	3.95696+00	4.96733+00	5.90262+00
74	0.00000	0.00000	0.00000	0.00000	0.00000	1.50693+00	2.79686+00	3.93191+00	4.95669+00	5.90024+00
75	0.00000	0.00000	0.00000	0.00000	1.64115-01	1.63259+00	2.89694+00	4.01522+00	5.02627+00	5.95747+00
76	0.00000	0.00000	0.00000	0.00000	6.16540-01	1.95692+00	3.14138+00	4.20499+00	5.17542+00	6.07419+00
77	0.00000	0.00000	0.00000	0.00000	1.27022+00	2.43906+00	3.50772+00	4.48876+00	5.39689+00	6.24608+00
78	0.00000	0.00000	0.00000	1.01189+00	2.03607+00	3.02687+00	3.96503+00	4.84770+00	5.67897+00	6.46568+00
79	1.59794-01	6.05300-01	1.25629+00	2.02675+00	2.84719+00	3.67433+00	4.48253+00	5.26139+00	6.00803+00	6.72389+00
80	1.59623+00	1.92413+00	2.41112+00	3.00653+00	3.66378+00	4.34763+00	5.03461+00	5.71119+00	6.37081+00	7.01140+00
81	2.83850+00	3.09147+00	3.46660+00	3.93367+00	4.46175+00	5.02454+00	5.60238+00	6.18210+00	6.75586+00	7.31971+00
82	3.94306+00	4.14332+00	4.43759+00	4.80732+00	5.23194+00	5.69245+00	6.17334+00	6.66315+00	7.15415+00	7.64176+00
83	4.94750+00	5.10741+00	5.33967+00	5.63258+00	5.97238+00	6.34553+00	6.74020+00	7.14703+00	7.55918+00	7.97213+00
84	5.87835+00	6.00511+00	6.18713+00	6.41687+00	6.68507+00	6.98217+00	7.29943+00	7.62949+00	7.96670+00	8.30702+00
85	6.75534+00	6.85330+00	6.99254+00	7.16820+00	7.37404+00	7.60346+00	7.85013+00	8.10855+00	8.37429+00	8.64401+00
86	7.59397+00	7.66576+00	7.76699+00	7.89455+00	8.04437+00	8.21203+00	8.39318+00	8.58391+00	8.78098+00	8.98187+00
87	8.40703+00	8.45423+00	8.52039+00	8.60367+00	8.70161+00	8.81150+00	8.93060+00	9.05643+00	9.18687+00	9.32024+00
88	9.20565+00	9.22909+00	9.26185+00	9.30304+00	9.35152+00	9.40599+00	9.46514+00	9.52775+00	9.59278+00	9.65938+00
89	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01

TABLE OF PSI FUNCTION

I	J = 41	J = 42	J = 43	J = 44	J = 45	J =
1	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01	
2	9.78270+00	9.83699+00	9.89134+00	9.94567+00	1.00000+01	
3	9.56139+00	9.67108+00	9.78080+00	9.89043+00	1.00000+01	
4	9.33597+00	9.50233+00	9.66847+00	9.83433+00	1.00000+01	
5	9.10663+00	9.33098+00	9.55458+00	9.77749+00	1.00000+01	
6	8.87395+00	9.15758+00	9.43954+00	9.72014+00	1.00000+01	
7	8.63907+00	8.98311+00	9.32405+00	9.66265+00	1.00000+01	
8	8.40385+00	6.80904+00	9.20912+00	9.60552+00	1.00000+01	
9	8.17102+00	8.63746+00	9.09616+00	9.54947+00	1.00000+01	
10	7.94425+00	8.47107+00	8.98696+00	9.49536+00	1.00000+01	
11	7.72821+00	8.31323+00	8.88364+00	9.44427+00	1.00000+01	

12	7.52837+00	8.16776+00	8.78865+00	9.39734+00	1.00000+01
13	7.35072+00	8.03873+00	8.70450+00	9.35581+00	1.00000+01
14	7.20122+00	7.93010+00	8.63362+00	9.32081+00	1.00000+01
15	7.08506+00	7.84528+00	8.57808+00	9.29332+00	1.00000+01
16	7.00592+00	7.78664+00	8.53929+00	9.27401+00	1.00000+01
17	6.96538+00	7.75521+00	8.51788+00	9.26317+00	1.00000+01
18	6.96262+00	7.75047+00	8.51354+00	9.26067+00	1.00000+01
19	6.99454+00	7.77045+00	8.52510+00	9.26595+00	1.00000+01
20	7.05632+00	7.81201+00	8.55067+00	9.27812+00	1.00000+01
21	7.14206+00	7.87125+00	8.58788+00	9.29606+00	1.00000+01
22	7.24557+00	7.94399+00	8.63413+00	9.31853+00	1.00000+01
23	7.36093+00	8.02611+00	8.68683+00	9.34428+00	1.00000+01
24	7.48295+00	8.11389+00	8.74360+00	9.37214+00	1.00000+01
25	7.60731+00	8.20417+00	8.80236+00	9.40109+00	1.00000+01
26	7.73062+00	8.29438+00	8.86140+00	9.43027+00	1.00000+01
27	7.85036+00	8.38256+00	8.91938+00	9.45902+00	1.00000+01
28	7.96476+00	8.46727+00	8.97530+00	9.48681+00	1.00000+01
29	8.07267+00	8.54754+00	9.02847+00	9.51328+00	1.00000+01
30	8.17337+00	8.62274+00	9.07842+00	9.53820+00	1.00000+01
31	8.26654+00	8.69252+00	9.12488+00	9.56141+00	1.00000+01
32	8.35207+00	8.75676+00	9.16773+00	9.58283+00	1.00000+01
33	8.43006+00	8.81545+00	9.20694+00	9.60246+00	1.00000+01
34	8.50071+00	8.86871+00	9.24256+00	9.62030+00	1.00000+01
35	8.56429+00	8.91669+00	9.27469+00	9.63641+00	1.00000+01
36	8.62109+00	8.95961+00	9.30345+00	9.65083+00	1.00000+01
37	8.67143+00	8.99768+00	9.32897+00	9.66364+00	1.00000+01
38	8.71561+00	9.03112+00	9.35140+00	9.67490+00	1.00000+01
39	8.75392+00	9.06012+00	9.37087+00	9.68467+00	1.00000+01
40	8.78661+00	9.08488+00	9.38749+00	9.69301+00	1.00000+01
41	8.81390+00	9.10556+00	9.40138+00	9.69998+00	1.00000+01
42	8.83598+00	9.12230+00	9.41262+00	9.70563+00	1.00000+01
43	8.85299+00	9.13519+00	9.42127+00	9.70998+00	1.00000+01
44	8.86503+00	9.14431+00	9.42740+00	9.71305+00	1.00000+01
45	8.87216+00	9.14971+00	9.43102+00	9.71487+00	1.00000+01
46	8.87438+00	9.15138+00	9.43215+00	9.71543+00	1.00000+01
47	8.87166+00	9.14931+00	9.43075+00	9.71473+00	1.00000+01
48	8.86392+00	9.14344+00	9.42680+00	9.71275+00	1.00000+01
49	8.85102+00	9.13365+00	9.42022+00	9.70944+00	1.00000+01
50	8.83279+00	9.11983+00	9.41093+00	9.70477+00	1.00000+01
51	8.80900+00	9.10179+00	9.39881+00	9.69869+00	1.00000+01
52	8.77936+00	9.07932+00	9.38372+00	9.69111+00	1.00000+01
53	8.74356+00	9.05219+00	9.36551+00	9.68196+00	1.00000+01
54	8.70119+00	9.02011+00	9.34398+00	9.67116+00	1.00000+01
55	8.65186+00	8.98276+00	9.31894+00	9.65859+00	1.00000+01
56	8.59509+00	8.93986+00	9.29017+00	9.64416+00	1.00000+01
57	8.53041+00	8.89102+00	9.25745+00	9.62776+00	1.00000+01
58	8.45731+00	8.83590+00	9.22058+00	9.60929+00	1.00000+01
59	8.37534+00	8.77420+00	9.17935+00	9.58865+00	1.00000+01
60	8.28409+00	8.70566+00	9.13363+00	9.56576+00	1.00000+01
61	8.18326+00	8.63013+00	9.08335+00	9.54067+00	1.00000+01
62	8.07275+00	8.54763+00	9.02856+00	9.51334+00	1.00000+01
63	7.95276+00	8.45840+00	8.96946+00	9.48393+00	1.00000+01
64	7.82392+00	8.36306+00	8.90656+00	9.45267+00	1.00000+01
65	7.68744+00	8.26264+00	8.84057+00	9.41997+00	1.00000+01
66	7.54532+00	8.15878+00	8.77264+00	9.38640+00	1.00000+01
67	7.40053+00	8.05376+00	8.70435+00	9.35276+00	1.00000+01
68	7.25718+00	7.95074+00	8.63775+00	9.32008+00	1.00000+01

69	7.12063+00	7.85356+00	8.57537+00	9.28960+00	1.00000+01
70	6.99740+00	7.76684+00	8.52014+00	9.26273+00	1.00000+01
71	6.89487+00	7.69564+00	8.47522+00	9.24101+00	1.00000+01
72	6.82067+00	7.64506+00	8.44375+00	9.22592+00	1.00000+01
73	6.78179+00	7.61969+00	8.42851+00	9.21878+00	1.00000+01
74	6.78363+00	7.62305+00	8.43164+00	9.22059+00	1.00000+01
75	6.82913+00	7.65710+00	8.45432+00	9.23193+00	1.00000+01
76	6.91841+00	7.72198+00	8.49669+00	9.25287+00	1.00000+01
77	7.04882+00	7.81612+00	8.55785+00	9.28300+00	1.00000+01
78	7.21559+00	7.93651+00	8.63604+00	9.32151+00	1.00000+01
79	7.41269+00	8.07924+00	8.72892+00	9.36729+00	1.00000+01
80	7.63367+00	8.24003+00	8.83386+00	9.41911+00	1.00000+01
81	7.87245+00	8.41470+00	8.94827+00	9.47571+00	1.00000+01
82	8.12371+00	8.59949+00	9.06975+00	9.53594+00	1.00000+01
83	8.38323+00	8.79131+00	9.19626+00	9.59881+00	1.00000+01
84	8.64785+00	8.98777+00	9.32626+00	9.66351+00	1.00000+01
85	8.91545+00	9.18720+00	9.45859+00	9.72947+00	1.00000+01
86	9.18478+00	9.38852+00	9.59244+00	9.79627+00	1.00000+01
87	9.45528+00	9.59117+00	9.72739+00	9.86369+00	1.00000+01
88	9.72692+00	9.79497+00	9.86325+00	9.93161+00	1.00000+01
89	1.00000+01	1.00000+01	1.00000+01	1.00000+01	1.00000+01

CASE 10 DATE 07/01/77
FOR A TOTAL FLUX OF 0.15 WEBERS:

TABLE OF B FUNCTION

I	J = 1	J = 2	J = 3	J = 4	J = 5	J = 6	J = 7	J = 8	J = 9	J = 10
1	4.07309+00	4.08314+00	4.11285+00	4.16313+00	4.23398+00	4.32612+00	4.44028+00	4.57757+00	4.73902+00	4.92570+00
2	4.05272+00	4.06263+00	4.09241+00	4.14231+00	4.21283+00	4.30459+00	4.41840+00	4.55522+00	4.71614+00	4.90242+00
3	4.02307+00	4.03296+00	4.06276+00	4.11266+00	4.18325+00	4.27511+00	4.38907+00	4.52611+00	4.68701+00	4.87426+00
4	3.97465+00	3.98456+00	4.01433+00	4.06432+00	4.13493+00	4.22690+00	4.34104+00	4.47841+00	4.64021+00	4.82781+00
5	3.90827+00	3.91817+00	3.94796+00	3.99793+00	4.06854+00	4.16055+00	4.27485+00	4.41250+00	4.57482+00	4.76330+00
6	3.82485+00	3.83473+00	3.86444+00	3.91431+00	3.98487+00	4.07682+00	4.19113+00	4.32895+00	4.49168+00	4.68094+00
7	3.72540+00	3.73523+00	3.76481+00	3.81451+00	3.88483+00	3.97655+00	4.09068+00	4.22843+00	4.39132+00	4.58108+00
8	3.61110+00	3.62089+00	3.65027+00	3.69965+00	3.76955+00	3.86081+00	3.97445+00	4.11177+00	4.27440+00	4.46421+00
9	3.48331+00	3.49300+00	3.52211+00	3.57101+00	3.64029+00	3.73078+00	3.84353+00	3.97998+00	4.14178+00	4.33099+00
10	3.34353+00	3.35310+00	3.38185+00	3.43010+00	3.49851+00	3.58787+00	3.69929+00	3.83430+00	3.99460+00	4.18238+00
11	3.19321+00	3.20261+00	3.23082+00	3.27825+00	3.34547+00	3.43331+00	3.54296+00	3.67590+00	3.83390+00	4.01930+00
12	3.03402+00	3.04317+00	3.07072+00	3.11709+00	3.18281+00	3.26876+00	3.37610+00	3.50626+00	3.66117+00	3.84311+00
13	2.86777+00	2.87669+00	2.90351+00	2.94858+00	3.01253+00	3.09616+00	3.20060+00	3.32733+00	3.47822+00	3.65559+00
14	2.69623+00	2.70487+00	2.73082+00	2.77444+00	2.83630+00	2.91720+00	3.01824+00	3.14084+00	3.28683+00	3.45855+00
15	2.52120+00	2.52951+00	2.55447+00	2.59646+00	2.65596+00	2.73377+00	2.83089+00	2.94874+00	3.08904+00	3.25401+00
16	2.34444+00	2.35239+00	2.37629+00	2.41646+00	2.47337+00	2.54775+00	2.64056+00	2.75308+00	2.88696+00	3.04428+00
17	2.16771+00	2.17529+00	2.19804+00	2.23625+00	2.29039+00	2.36107+00	2.44919+00	2.55592+00	2.68278+00	2.83170+00
18	1.99268+00	1.99983+00	2.02137+00	2.05756+00	2.10875+00	2.17552+00	2.25870+00	2.35930+00	2.47869+00	2.61863+00
19	1.82086+00	1.82761+00	1.84790+00	1.88197+00	1.93011+00	1.99287+00	2.07090+00	2.16514+00	2.27681+00	2.40738+00
20	1.65367+00	1.66003+00	1.67905+00	1.71095+00	1.75602+00	1.81467+00	1.88749+00	1.97529+00	2.07906+00	2.20016+00
21	1.49243+00	1.49834+00	1.51609+00	1.54583+00	1.58782+00	1.64237+00	1.70999+00	1.79133+00	1.88729+00	1.99897+00
22	1.33815+00	1.34365+00	1.36013+00	1.38776+00	1.42668+00	1.47719+00	1.53969+00	1.61472+00	1.70302+00	1.80551+00
23	1.19173+00	1.19683+00	1.21210+00	1.23765+00	1.27360+00	1.32019+00	1.37771+00	1.44664+00	1.52755+00	1.62124+00
24	1.05395+00	1.05866+00	1.07271+00	1.09626+00	1.12935+00	1.17215+00	1.22493+00	1.28802+00	1.36192+00	1.44729+00
25	9.25296-01	9.29614-01	9.42531-01	9.64148-01	9.94507-01	1.03372+00	1.08197+00	1.13954+00	1.20687+00	1.28448+00
26	8.06098-01	8.10067-01	8.21907-01	8.41691-01	8.69451-01	9.05261-01	9.49263-01	1.00170+00	1.06289+00	1.13335+00
27	6.96578-01	7.00210-01	7.11015-01	7.29073-01	7.54398-01	7.87006-01	8.27038-01	8.74693-01	9.30264-01	9.94178-01
28	5.96761-01	6.00061-01	6.09902-01	6.26336-01	6.49356-01	6.78991-01	7.15353-01	7.58585-01	8.08999-01	8.66985-01
29	5.06537-01	5.09541-01	5.18447-01	5.33366-01	5.54239-01	5.81104-01	6.14038-01	6.53246-01	6.98966-01	7.51594-01
30	4.25676-01	4.28384-01	4.36448-01	4.49922-01	4.68795-01	4.93083-01	5.22890-01	5.58377-01	5.99860-01	6.47700-01
31	3.53846-01	3.56296-01	3.63541-01	3.75681-01	3.92689-01	4.14583-01	4.41503-01	4.73635-01	5.11259-01	5.50805-01
32	2.90666-01	2.92851-01	2.99335-01	3.10226-01	3.25478-01	3.45171-01	3.69433-01	3.98483-01	4.32666-01	4.72386-01
33	2.35631-01	2.37580-01	2.43351-01	2.53049-01	2.66678-01	2.84319-01	3.06147-01	3.32416-01	3.63470-01	3.99789-01
34	1.88227-01	1.89955-01	1.95044-01	2.03631-01	2.15733-01	2.31478-01	2.51063-01	2.74796-01	3.03071-01	3.36372-01
35	1.47893-01	1.49406-01	1.53850-01	1.61385-01	1.72067-01	1.86047-01	2.03584-01	2.25018-01	2.50786-01	2.81432-01
36	1.14048-01	1.15352-01	1.19177-01	1.25725-01	1.35064-01	1.47410-01	1.63061-01	1.82425-01	2.05976-01	2.34264-01
37	8.60775-02	8.71802-02	9.04255-02	9.60271-02	1.04115-01	1.14948-01	1.28886-01	1.46383-01	1.67957-01	1.94185-01
38	6.33717-02	6.42903-02	6.69730-02	7.16811-02	7.85947-02	8.80320-02	1.00414-01	1.16261-01	1.36103-01	1.60522-01
39	4.53298-02	4.60629-02	4.82118-02	5.20837-02	5.79012-02	6.60622-02	7.70437-02	9.14171-02	1.09762-01	1.32619-01
40	3.13376-02	3.19004-02	3.35507-02	3.66329-02	4.14385-02	4.84385-02	5.81955-02	7.12965-02	8.83351-02	1.09844-01
41	2.08115-02	2.12256-02	2.24075-02	2.47523-02	2.86254-02	3.46014-02	4.32901-02	5.53277-02	7.12597-02	9.15921-02
42	1.31757-02	1.34536-02	1.42134-02	1.59004-02	1.89323-02	2.40113-02	3.18274-02	4.29753-02	5.79791-02	7.72966-02
43	7.85104-03	8.02489-03	8.45372-03	9.55109-03	1.18410-02	1.61764-02	2.33086-02	3.37626-02	4.79905-02	6.64321-02
44	4.28180-03	4.42889-03	4.65940-03	5.25734-03	6.66777-03	1.06465-02	1.73008-02	2.72336-02	4.08429-02	5.85557-02
45	1.94463-03	2.20323-03	2.43040-03	2.57131-03	3.53100-03	7.02710-03	1.34491-02	2.30365-02	3.61842-02	5.33423-02
46	→3.13008-04	1.09346-03	1.49404-03	→1.14550-03	1.38441-03	5.14480-03	1.15466-02	2.09436-02	3.38064-02	5.06077-02
47	1.13291-03	1.49295-03	1.70576-03	1.30916-03	1.55564-03	5.23611-03	1.15914-02	2.09245-02	3.36605-02	5.03287-02

48	2.87039-03	2.98716-03	3.01736-03	3.05017-03	3.98380-03	7.39807-03	1.36819-02	2.30541-02	3.58855-02	5.26004-02
49	5.37941-03	5.46467-03	5.56303-03	6.06429-03	7.65679-03	1.13644-02	1.78441-02	2.74465-02	4.05481-02	5.75458-02
50	9.13983-03	9.26755-03	9.60654-03	1.06127-02	1.28615-02	1.71477-02	2.41033-02	3.41769-02	4.77729-02	6.52689-02
51	1.45919-02	1.48084-02	1.54611-02	1.70067-02	1.99512-02	2.49483-02	3.25919-02	4.33582-02	5.76707-02	7.59319-02
52	2.21733-02	2.25049-02	2.35054-02	2.56109-02	2.92710-02	3.50634-02	4.35318-02	5.51654-02	7.03879-02	8.96027-02
53	3.23144-02	3.27632-02	3.41220-02	3.67940-02	4.11870-02	4.78198-02	5.72107-02	6.98341-02	8.61176-02	1.06474-01
54	4.54057-02	4.59757-02	4.77017-02	5.09392-02	5.60731-02	6.35754-02	7.39460-02	8.76509-02	1.05119-01	1.26768-01
55	6.18330-02	6.25250-02	6.46081-02	6.84161-02	7.42910-02	8.26876-02	9.40786-02	1.08931-01	1.27677-01	1.50737-01
56	8.19655-02	8.27738-02	8.52077-02	8.95778-02	9.62007-02	1.05503-01	1.17950-01	1.33999-01	1.54100-01	1.78679-01
57	1.06125-01	1.07048-01	1.09837-01	1.14760-01	1.22137-01	1.32360-01	1.45889-01	1.63188-01	1.84707-01	2.10895-01
58	1.34614-01	1.35652-01	1.38789-01	1.44270-01	1.52400-01	1.63569-01	1.78210-01	1.96801-01	2.19808-01	2.47692-01
59	1.67697-01	1.68853-01	1.72332-01	1.78382-01	1.87273-01	1.99401-01	2.15197-01	2.35129-01	2.59689-01	2.89361-01
60	2.05588-01	2.06860-01	2.10686-01	2.17310-01	2.26991-01	2.40101-01	2.57087-01	2.78424-01	3.04613-01	3.36172-01
61	2.48447-01	2.49836-01	2.54026-01	2.61227-01	2.71719-01	2.85856-01	3.04082-01	3.26886-01	3.54793-01	3.88351-01
62	2.96379-01	2.97890-01	3.02449-01	3.10257-01	3.21582-01	3.36788-01	3.56314-01	3.80666-01	4.10386-01	4.46067-01
63	3.49425-01	3.51064-01	3.56001-01	3.64435-01	3.76633-01	3.92956-01	4.13847-01	4.39834-01	4.71485-01	5.09421-01
64	4.07546-01	4.09316-01	4.14649-01	4.23737-01	4.36843-01	4.54339-01	4.76676-01	5.04384-01	5.38082-01	5.78429-01
65	4.70631-01	4.72536-01	4.78277-01	4.88049-01	5.02110-01	5.20834-01	5.44690-01	5.74232-01	6.10096-01	6.53004-01
66	5.38471-01	5.40519-01	5.46688-01	5.57167-01	5.72229-01	5.92246-01	6.17697-01	6.49165-01	6.87324-01	7.32950-01
67	6.10773-01	6.12976-01	6.19589-01	6.30808-01	6.46906-01	6.68271-01	6.95399-01	7.28890-01	7.69460-01	8.17943-01
68	6.87156-01	6.89487-01	6.96554-01	7.08539-01	7.25714-01	7.48479-01	7.77347-01	8.12950-01	8.56044-01	9.07515-01
69	7.67170-01	7.69660-01	7.77199-01	7.89964-01	8.08244-01	8.32446-01	8.63102-01	9.00874-01	9.46559-01	1.00111+00
70	8.50257-01	8.52928-01	8.60946-01	8.74512-01	8.93915-01	9.19579-01	9.52051-01	9.92029-01	1.04035+00	1.09803+00
71	9.35756-01	9.38574-01	9.47070-01	9.61437-01	9.81970-01	1.00911+00	1.04341+00	1.08561+00	1.13657+00	1.19738+00
72	1.02295+00	1.02593+00	1.03490+00	1.05006+00	1.07172+00	1.10031+00	1.13643+00	1.18081+00	1.23438+00	1.29825+00
73	1.11108+00	1.11421+00	1.12364+00	1.13958+00	1.16234+00	1.19236+00	1.23024+00	1.27674+00	1.33282+00	1.39963+00
74	1.19932+00	1.20260+00	1.21248+00	1.22917+00	1.25298+00	1.28437+00	1.32393+00	1.37245+00	1.43089+00	1.50045+00
75	1.28682+00	1.29025+00	1.30056+00	1.31795+00	1.34276+00	1.37542+00	1.41656+00	1.46695+00	1.52757+00	1.59963+00
76	1.37273+00	1.37628+00	1.38698+00	1.40504+00	1.43076+00	1.46461+00	1.50718+00	1.55927+00	1.62184+00	1.69611+00
77	1.45616+00	1.45983+00	1.47090+00	1.48956+00	1.51611+00	1.55102+00	1.59488+00	1.64846+00	1.71273+00	1.78887+00
78	1.53627+00	1.54005+00	1.55145+00	1.57063+00	1.59793+00	1.63377+00	1.67875+00	1.73362+00	1.79931+00	1.87697+00
79	1.61225+00	1.61613+00	1.62780+00	1.64746+00	1.67540+00	1.71204+00	1.75797+00	1.81390+00	1.88073+00	1.95956+00
80	1.68333+00	1.68729+00	1.69920+00	1.71926+00	1.74774+00	1.78506+00	1.83175+00	1.88853+00	1.95624+00	2.03592+00
81	1.74880+00	1.75283+00	1.76495+00	1.78533+00	1.81426+00	1.85212+00	1.89943+00	1.95685+00	2.02519+00	2.10542+00
82	1.80802+00	1.81210+00	1.82439+00	1.84504+00	1.87432+00	1.91261+00	1.96039+00	2.01829+00	2.08705+00	2.16757+00
83	1.86043+00	1.86455+00	1.87697+00	1.89784+00	1.92740+00	1.96601+00	2.01413+00	2.07235+00	2.14136+00	2.22198+00
84	1.90554+00	1.90970+00	1.92222+00	1.94324+00	1.97301+00	2.01186+00	2.06023+00	2.11865+00	2.18776+00	2.26836+00
85	1.94294+00	1.94713+00	1.95973+00	1.98087+00	2.01080+00	2.04981+00	2.09834+00	2.15688+00	2.22604+00	2.30650+00
86	1.97234+00	1.97654+00	1.98919+00	2.01043+00	2.04046+00	2.07959+00	2.12822+00	2.18682+00	2.25596+00	2.33628+00
87	1.99348+00	1.99770+00	2.01039+00	2.03168+00	2.06178+00	2.10099+00	2.14968+00	2.20831+00	2.27742+00	2.35760+00
88	2.00623+00	2.01046+00	2.02317+00	2.04449+00	2.07463+00	2.11388+00	2.16261+00	2.22125+00	2.29033+00	2.37043+00
89	2.01471+00	2.01896+00	2.03173+00	2.05317+00	2.08347+00	2.12292+00	2.17187+00	2.23077+00	2.30013+00	2.38052+00

TABLE OF B FUNCTION

I	J = 11	J = 12	J = 13	J = 14	J = 15	J = 16	J = 17	J = 18	J = 19	J = 20
1	5.13908+00	5.38030+00	5.65044+00	5.95064+00	6.28157+00	6.64314+00	7.03474+00	7.45443+00	7.89870+00	8.36220+00
2	5.11535+00	5.35629+00	5.62652+00	5.92714+00	6.25896+00	6.62229+00	7.01657+00	7.44025+00	7.89021+00	8.36141+00
3	5.08797+00	5.33006+00	5.60190+00	5.90474+00	6.23962+00	6.60702+00	7.00675+00	7.43752+00	7.89662+00	8.37938+00
4	5.04273+00	5.28652+00	5.56078+00	5.86707+00	6.20668+00	6.58055+00	6.98897+00	7.43122+00	7.90523+00	8.40700+00
5	4.97957+00	5.22540+00	5.50270+00	5.81332+00	6.15902+00	6.54134+00	6.96122+00	7.41685+00	7.91310+00	8.44105+00
6	4.89853+00	5.14653+00	5.42709+00	5.74254+00	6.09524+00	6.48739+00	6.92095+00	7.39720+00	7.91642+00	8.47723+00
7	4.79976+00	5.04967+00	5.33338+00	5.65372+00	6.01371+00	6.41649+00	6.86512+00	7.36239+00	7.91039+00	8.50994+00
8	4.68348+00	4.93478+00	5.22111+00	5.54586+00	5.91281+00	6.32612+00	6.79027+00	7.30983+00	7.88922+00	8.53214+00
9	4.55008+00	4.80191+00	5.08992+00	5.41804+00	5.79089+00	6.21378+00	6.69270+00	7.23438+00	7.84607+00	8.53522+00

10	4.40029+00	4.65150+00	4.93978+00	5.26968+00	5.64663+00	6.07708+00	6.56870+00	7.13060+00	7.77337+00	8.50903+00
11	4.23487+00	4.48401+00	4.77081+00	5.10036+00	5.47884+00	5.91383+00	6.41469+00	6.99294+00	7.66285+00	8.44191+00
12	4.05500+00	4.30040+00	4.58369+00	4.91034+00	5.28717+00	5.72271+00	6.22782+00	6.81638+00	7.50637+00	8.32122+00
13	3.86241+00	4.10229+00	4.37979+00	4.70064+00	5.07206+00	5.50333+00	6.00645+00	6.59722+00	7.29679+00	8.13414+00
14	3.65885+00	3.89140+00	4.16077+00	4.47277+00	4.83481+00	5.25651+00	5.75047+00	6.33365+00	7.02927+00	7.87012+00
15	3.44648+00	3.66998+00	3.92896+00	4.22913+00	4.57782+00	4.98453+00	5.46191+00	6.02696+00	6.70329+00	7.52469+00
16	3.22772+00	3.44059+00	3.68716+00	3.97282+00	4.30450+00	4.69126+00	5.14503+00	5.68188+00	6.32405+00	7.10295+00
17	3.00511+00	3.20608+00	3.43657+00	3.70748+00	4.01917+00	4.38185+00	4.80625+00	5.30066+00	5.90238+00	6.62013+00
18	2.78127+00	2.96944+00	3.18659+00	3.43715+00	3.72671+00	4.06240+00	4.45346+00	4.91184+00	5.45329+00	6.09871+00
19	2.55885+00	2.73361+00	2.93472+00	3.16601+00	3.43223+00	3.73943+00	4.09514+00	4.50900+00	4.99318+00	5.56305+00
20	2.34027+00	2.50144+00	2.68631+00	2.89807+00	3.14073+00	3.41918+00	3.73950+00	4.10911+00	4.53713+00	5.03456+00
21	2.12780+00	2.27556+00	2.44439+00	2.63701+00	2.85667+00	3.10730+00	3.39365+00	3.72141+00	4.09727+00	4.52902+00
22	1.92340+00	2.05816+00	2.21162+00	2.38598+00	2.58384+00	2.80838+00	3.06329+00	3.35287+00	3.68209+00	4.05652+00
23	1.72871+00	1.85117+00	1.99013+00	2.14742+00	2.32518+00	2.52590+00	2.75250+00	3.00826+00	3.29688+00	3.62241+00
24	1.54495+00	1.65595+00	1.78156+00	1.92326+00	2.08281+00	2.26224+00	2.46387+00	2.69026+00	2.94426+00	3.22681+00
25	1.37309+00	1.47359+00	1.58701+00	1.71467+00	1.85803+00	2.01875+00	2.19875+00	2.40005+00	2.62486+00	2.87544+00
26	1.21367+00	1.30463+00	1.40717+00	1.52236+00	1.65150+00	1.79599+00	1.95743+00	2.13751+00	2.33796+00	2.56054+00
27	1.06700+00	1.14940+00	1.24223+00	1.34649+00	1.46327+00	1.59383+00	1.73952+00	1.90175+00	2.08196+00	2.28147+00
28	9.33051-01	1.00786+00	1.09216+00	1.18688+00	1.29301+00	1.41167+00	1.54405+00	1.69133+00	1.85469+00	2.03520+00
29	8.11645-01	8.79723-01	9.56581-01	1.04304+00	1.14004+00	1.24860+00	1.36973+00	1.50449+00	1.65383+00	1.81857+00
30	7.02393-01	7.64567-01	8.34920-01	9.14272-01	1.00347+00	1.10344+00	1.21511+00	1.33933+00	1.47694+00	1.62853+00
31	6.04778-01	6.61782-01	7.26506-01	7.99730-01	8.82266-01	9.74941-01	1.07859+00	1.19394+00	1.32164+00	1.46217+00
32	5.18176-01	5.70666-01	6.30525-01	6.98490-01	7.75330-01	8.61795-01	9.58604-01	1.06640+00	1.18569+00	1.31682+00
33	4.41920-01	4.90470-01	5.46115-01	6.09568-01	6.81514-01	7.62651-01	8.53611-01	9.54916-01	1.06698+00	1.19004+00
34	3.75271-01	4.20406-01	4.72403-01	5.31944-01	5.99691-01	6.76222-01	7.62105-01	8.57790-01	9.63576-01	1.07964+00
35	3.17509-01	3.59650-01	4.08501-01	4.64653-01	5.28723-01	6.01258-01	6.82699-01	7.73444-01	8.73729-01	9.83642-01
36	2.67883-01	3.07430-01	3.53510-01	4.06715-01	4.67568-01	5.36550-01	6.14074-01	7.00440-01	7.95846-01	9.00340-01
37	2.25651-01	2.62936-01	3.06607-01	3.57184-01	4.15180-01	4.81006-01	5.55014-01	6.37470-01	7.28519-01	8.28188-01
38	1.90111-01	2.25397-01	2.66933-01	3.15191-01	3.70606-01	4.33585-01	5.04430-01	5.83360-01	6.70510-01	7.65876-01
39	1.60556-01	1.94095-01	2.33705-01	2.79864-01	3.32964-01	3.93352-01	4.61326-01	5.37088-01	6.20742-01	7.12281-01
40	1.36332-01	1.68301-01	2.06196-01	2.50438-01	3.01421-01	3.59472-01	4.24857-01	4.97771-01	5.78304-01	6.66444-01
41	1.16809-01	1.47362-01	1.83697-01	2.26214-01	2.75281-01	3.31221-01	3.94292-01	4.66670-01	5.42446-01	6.27602-01
42	1.01379-01	1.30679-01	1.65606-01	2.06575-01	2.53937-01	3.08006-01	3.69034-01	4.37193-01	5.12567-01	5.95149-01
43	8.95295-02	1.17719-01	1.51421-01	1.91036-01	2.36912-01	2.89366-01	3.48641-01	4.14902-01	4.88235-01	5.68631-01
44	8.08280-02	1.08084-01	1.40756-01	1.79235-01	2.23880-01	2.74992-01	3.32802-01	3.97492-01	4.69150-01	5.47755-01
45	7.49680-02	1.01500-01	1.33372-01	1.70967-01	2.14634-01	2.64682-01	3.21355-01	3.84817-01	4.55150-01	5.32356-01
46	7.18044-02	9.78502-02	1.29164-01	1.66136-01	2.09121-01	2.58406-01	3.14246-01	3.76618-01	4.46199-01	5.22387-01
47	7.13348-02	9.71365-02	1.28155-01	1.64777-01	2.07355-01	2.56201-01	3.11544-01	3.73556-01	4.42542-01	5.17895-01
48	7.36472-02	9.94577-02	1.30446-01	1.67005-01	2.09480-01	2.58173-01	3.13344-01	3.75159-01	4.43712-01	5.19013-01
49	7.88696-02	1.04947-01	1.36176-01	1.72947-01	2.15626-01	2.64498-01	3.19820-01	3.81782-01	4.50477-01	5.25918-01
50	8.71335-02	1.13728-01	1.45481-01	1.82763-01	2.25937-01	2.75316-01	3.31143-01	3.93616-01	4.62636-01	5.38825-01
51	9.85475-02	1.25927-01	1.58471-01	1.96567-01	2.40566-01	2.90782-01	3.47478-01	4.10643-01	4.81000-01	5.57966-01
52	1.13222-01	1.41644-01	1.75268-01	2.14476-01	2.59626-01	3.11038-01	3.68983-01	4.33657-01	5.05182-01	5.83590-01
53	1.31306-01	1.61010-01	1.95984-01	2.36612-01	2.83251-01	3.36230-01	3.95820-01	4.62241-01	5.35611-01	6.15970-01
54	1.52994-01	1.84200-01	2.20781-01	2.63121-01	3.11583-01	3.66507-01	4.28169-01	4.96796-01	5.72528-01	6.55400-01
55	1.78520-01	2.11425-01	2.49850-01	2.94185-01	3.44805-01	4.02051-01	4.66223-01	5.37556-01	6.16200-01	7.02203-01
56	2.08153-01	2.42930-01	2.83420-01	3.30024-01	3.83130-01	4.43090-01	5.10226-01	5.84792-01	6.66951-01	7.56763-01
57	2.42182-01	2.78994-01	3.21761-01	3.70699-01	4.26814-01	4.89888-01	5.60463-01	6.38818-01	7.25145-01	8.19525-01
58	2.80909-01	3.19916-01	3.65162-01	4.17094-01	4.76147-01	5.42740-01	6.17253-01	6.99996-01	7.91206-01	8.90984-01
59	3.24632-01	3.65990-01	4.13919-01	4.68909-01	5.31440-01	6.01977-01	6.80951-01	7.68732-01	8.65604-01	9.71716-01
60	3.73624-01	4.17497-01	4.68325-01	5.26650-01	5.93013-01	6.67943-01	7.51941-01	8.45459-01	9.48854-01	1.06236+00
61	4.28124-01	4.74690-01	5.28648-01	5.90606-01	6.61177-01	7.40978-01	8.30612-01	9.30630-01	1.04151+00	1.16359+00
62	4.88318-01	5.37775-01	5.95110-01	6.61015-01	7.36200-01	8.21395-01	9.17326-01	1.02469+00	1.14411+00	1.27610+00
63	5.54318-01	6.06882-01	6.67862-01	7.38055-01	8.18291-01	9.09440-01	1.01239+00	1.12803+00	1.25718+00	1.40059+00
64	6.26155-01	6.82052-01	7.46965-01	8.21810-01	9.07564-01	1.00527+00	1.11602+00	1.24094+00	1.38114+00	1.53766+00
65	7.03751-01	7.63216-01	8.32361-01	9.12236-01	1.00399+00	1.10889+00	1.22827+00	1.36356+00	1.51624+00	1.68779+00
66	7.86908-01	8.50177-01	9.23848-01	1.00913+00	1.10738+00	1.22011+00	1.34897+00	1.49579+00	1.66250+00	1.85115+00

67	8.75290-01	9.42583-01	1.02106+00	1.11210+00	1.21732+00	1.33850+00	1.47769+00	1.63718+00	1.81952+00	2.02751+00
68	9.68405-01	1.03991+00	1.12343+00	1.22054+00	1.33312+00	1.46330+00	1.61359+00	1.78685+00	1.98640+00	2.21598+00
69	1.06565+00	1.14151+00	1.23023+00	1.33362+00	1.45384+00	1.59343+00	1.75540+00	1.94332+00	2.16144+00	2.41476+00
70	1.16628+00	1.24654+00	1.34052+00	1.45028+00	1.57826+00	1.72744+00	1.90140+00	2.10452+00	2.34215+00	2.62085+00
71	1.26933+00	1.35397+00	1.45318+00	1.56923+00	1.70488+00	1.86352+00	2.04936+00	2.26765+00	2.52499+00	2.82976+00
72	1.37381+00	1.46269+00	1.56694+00	1.68901+00	1.83196+00	1.99959+00	2.19668+00	2.42936+00	2.70551+00	3.03551+00
73	1.47862+00	1.57151+00	1.68045+00	1.80808+00	1.95769+00	2.13341+00	2.34054+00	2.58594+00	2.87868+00	3.23099+00
74	1.58261+00	1.67916+00	1.79232+00	1.92485+00	2.08019+00	2.26273+00	2.47810+00	2.73369+00	3.03942+00	3.40886+00
75	1.68463+00	1.78439+00	1.90117+00	2.03777+00	2.19771+00	2.38547+00	2.60682+00	2.86937+00	3.18334+00	3.56285+00
76	1.78356+00	1.88601+00	2.00571+00	2.14544+00	2.30869+00	2.49988+00	2.72469+00	2.99056+00	3.30745+00	3.68900+00
77	1.87834+00	1.98292+00	2.10479+00	2.24665+00	2.41186+00	2.60463+00	2.83033+00	3.09589+00	3.41046+00	3.78629+00
78	1.96801+00	2.07414+00	2.19743+00	2.34044+00	2.50630+00	2.69890+00	2.92309+00	3.18506+00	3.49271+00	3.85637+00
79	2.05173+00	2.15885+00	2.28286+00	2.42611+00	2.59143+00	2.78230+00	3.00296+00	3.25865+00	3.55586+00	3.90271+00
80	2.12881+00	2.23642+00	2.36051+00	2.50319+00	2.66700+00	2.85490+00	3.07046+00	3.31793+00	3.60236+00	3.92967+00
81	2.19868+00	2.30634+00	2.42999+00	2.57149+00	2.73301+00	2.91704+00	3.12647+00	3.36456+00	3.63499+00	3.94175+00
82	2.26090+00	2.36827+00	2.49109+00	2.63096+00	2.78971+00	2.96935+00	3.17211+00	3.40038+00	3.65661+00	3.94317+00
83	2.31516+00	2.42201+00	2.54375+00	2.68174+00	2.83748+00	3.01255+00	3.20861+00	3.42724+00	3.66990+00	3.93763+00
84	2.36126+00	2.46745+00	2.58800+00	2.72405+00	2.87680+00	3.04747+00	3.23717+00	3.44689+00	3.67725+00	3.92828+00
85	2.39906+00	2.50457+00	2.62395+00	2.75817+00	2.90817+00	3.07485+00	3.25894+00	3.46088+00	3.68068+00	3.91762+00
86	2.42850+00	2.53338+00	2.65174+00	2.78438+00	2.93206+00	3.09542+00	3.27488+00	3.47049+00	3.68181+00	3.90760+00
87	2.44954+00	2.55393+00	2.67149+00	2.80293+00	2.94886+00	3.10973+00	3.28575+00	3.47672+00	3.68186+00	3.89961+00
88	2.46219+00	2.56626+00	2.68333+00	2.81402+00	2.95886+00	3.11820+00	3.29212+00	3.48025+00	3.68165+00	3.89455+00
89	2.47253+00	2.57683+00	2.69404+00	2.82472+00	2.96937+00	3.12822+00	3.30125+00	3.48794+00	3.68721+00	3.89711+00

TABLE OF B FUNCTION

I	J = 21	J = 22	J = 23	J = 24	J = 25	J = 26	J = 27	J = 28	J = 29	J = 30
1	8.83728+00	9.31339+00	9.77734+00	1.02131+01	1.06024+01	1.09254+01	1.11623+01	1.12953+01	1.13099+01	1.11965+01
2	8.84645+00	9.33509+00	9.81407+00	1.02670+01	1.06748+01	1.10165+01	1.12709+01	1.14185+01	1.14431+01	1.13346+01
3	8.87871+00	9.38460+00	9.88370+00	1.03593+01	1.07914+01	1.11578+01	1.14355+01	1.16029+01	1.16426+01	1.15432+01
4	8.93007+00	9.46488+00	9.99817+00	1.05126+01	1.09870+01	1.13966+01	1.17153+01	1.19180+01	1.19840+01	1.19000+01
5	8.99728+00	9.57308+00	1.01556+01	1.07271+01	1.12644+01	1.17395+01	1.21211+01	1.23781+01	1.24840+01	1.24221+01
6	9.07585+00	9.70509+00	1.03532+01	1.10025+01	1.16279+01	1.21969+01	1.26703+01	1.30071+01	1.31712+01	1.31391+01
7	9.15966+00	9.85496+00	1.05864+01	1.13375+01	1.20826+01	1.27832+01	1.33891+01	1.38428+01	1.40910+01	1.40985+01
8	9.24072+00	1.00142+01	1.08474+01	1.17280+01	1.26323+01	1.35169+01	1.43154+01	1.49436+01	1.53168+01	1.53765+01
9	9.30867+00	1.01714+01	1.11243+01	1.21633+01	1.32767+01	1.44190+01	1.55037+01	1.64018+01	1.69690+01	1.70991+01
10	9.35065+00	1.03110+01	1.14007+01	1.26187+01	1.40050+01	1.55091+01	1.70308+01	1.83668+01	1.92556+01	1.94831+01
11	9.35110+00	1.04139+01	1.16508+01	1.31206+01	1.48927+01	1.69282+01	1.91512+01	2.12132+01	2.26412+01	2.30036+01
12	9.29154+00	1.04571+01	1.18684+01	1.36527+01	1.59016+01	1.86814+01	2.19648+01	0.00000	0.00000	0.00000
13	9.14982+00	1.04021+01	1.19768+01	1.40559+01	1.68253+01	0.00000	0.00000	0.00000	0.00000	0.00000
14	8.90415+00	1.02047+01	1.18905+01	1.41864+01	1.73715+01	0.00000	0.00000	0.00000	0.00000	0.00000
15	8.54126+00	9.83111+00	1.15234+01	1.38345+01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	8.06477+00	9.28012+00	1.08624+01	1.29829+01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
17	7.49764+00	8.58940+00	9.97607+00	1.17654+01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
18	6.87592+00	7.82183+00	8.98397+00	1.04128+01	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
19	6.23783+00	7.04068+00	7.99758+00	9.12492+00	1.04289+01	0.00000	0.00000	0.00000	0.00000	0.00000
20	5.61431+00	6.29092+00	7.07903+00	7.97691+00	8.99072+00	0.00000	0.00000	0.00000	0.00000	0.00000
21	5.02556+00	5.59657+00	6.25212+00	6.98414+00	7.79624+00	8.69552+00	9.67254+00	0.00000	0.00000	0.00000
22	4.48234+00	4.96636+00	5.51681+00	6.12872+00	6.79717+00	7.53008+00	8.32049+00	9.14983+00	9.98606+00	1.07208+01
23	3.98917+00	4.40149+00	4.86312+00	5.37776+00	5.93735+00	6.54084+00	7.17974+00	7.83443+00	8.47100+00	9.02838+00
24	3.54695+00	3.90148+00	4.29454+00	4.72661+00	5.19466+00	5.69369+00	6.21424+00	6.73940+00	7.24285+00	7.68919+00
25	3.15393+00	3.46218+00	3.80121+00	4.17066+00	4.56797+00	4.98798+00	5.42190+00	5.85624+00	6.27239+00	6.64845+00
26	2.80679+00	3.07785+00	3.37417+00	3.69493+00	4.03761+00	4.39753+00	4.76730+00	5.13654+00	5.49214+00	5.81973+00
27	2.50143+00	2.74252+00	3.00476+00	3.28714+00	3.58725+00	3.90103+00	4.22247+00	4.54363+00	4.85511+00	5.14698+00
28	2.23363+00	2.45037+00	2.68518+00	2.93694+00	3.20348+00	3.48130+00	3.76556+00	4.05017+00	4.32814+00	4.59228+00

29	1.99926+00	2.19605+00	2.40854+00	2.63561+00	2.87529+00	3.12462+00	3.37968+00	3.63569+00	3.88733+00	4.12913+00
30	1.79447+00	1.97476+00	2.16888+00	2.37577+00	2.59366+00	2.82004+00	3.05168+00	3.28477+00	3.51511+00	3.73841+00
31	1.61573+00	1.78221+00	1.96106+00	2.15125+00	2.35120+00	2.55878+00	2.77128+00	2.98561+00	3.19834+00	3.40601+00
32	1.45989+00	1.61469+00	1.78067+00	1.95686+00	2.14185+00	2.33379+00	2.53041+00	2.72909+00	2.92702+00	3.12129+00
33	1.32411+00	1.46894+00	1.62396+00	1.78828+00	1.96064+00	2.13940+00	2.32264+00	2.50610+00	2.69341+00	2.87609+00
34	1.20591+00	1.34213+00	1.48773+00	1.64189+00	1.80346+00	1.97101+00	2.14283+00	2.31701+00	2.49146+00	2.66403+00
35	1.10311+00	1.23183+00	1.36926+00	1.51464+00	1.66692+00	1.82484+00	1.98687+00	2.15133+00	2.31638+00	2.48011+00
36	1.01380+00	1.13595+00	1.26625+00	1.40400+00	1.54824+00	1.69783+00	1.85141+00	2.00746+00	2.16434+00	2.32032+00
37	9.36347-01	1.05270+00	1.17675+00	1.30785+00	1.44511+00	1.58748+00	1.73374+00	1.88249+00	2.03225+00	2.18145+00
38	8.69333-01	9.80572-01	1.09915+00	1.22443+00	1.35562+00	1.49174+00	1.63164+00	1.77407+00	1.91765+00	2.06092+00
39	8.11563-01	9.18312-01	1.03209+00	1.15232+00	1.27823+00	1.40892+00	1.54334+00	1.68030+00	1.81852+00	1.95664+00
40	7.62057-01	8.64872-01	9.74479-01	1.09032+00	1.21167+00	1.33770+00	1.46739+00	1.59964+00	1.73325+00	1.86692+00
41	7.20014-01	8.19414-01	9.25417-01	1.03748+00	1.15494+00	1.27697+00	1.40264+00	1.53086+00	1.66055+00	1.79041+00
42	6.84803-01	7.81284-01	8.84219-01	9.93088-01	1.10725+00	1.22591+00	1.34819+00	1.47306+00	1.59941+00	1.72606+00
43	6.55965-01	7.50004-01	8.50376-01	9.56585-01	1.06801+00	1.18389+00	1.30337+00	1.42544+00	1.54905+00	1.67304+00
44	6.33197-01	7.25243-01	8.23535-01	9.27592-01	1.03681+00	1.15045+00	1.26767+00	1.38751+00	1.50890+00	1.63075+00
45	6.16317-01	7.06813-01	8.03492-01	9.05883-01	1.01340+00	1.12531+00	1.24079+00	1.35889+00	1.47858+00	1.59876+00
46	6.05278-01	6.94647-01	7.90160-01	8.91357-01	9.97644-01	1.10832+00	1.22254+00	1.33940+00	1.45786+00	1.57683+00
47	6.00117-01	6.88792-01	7.83579-01	8.84027-01	9.89555-01	1.09946+00	1.21291+00	1.32899+00	1.44667+00	1.56487+00
48	6.00965-01	6.89358-01	7.83862-01	8.84019-01	9.89247-01	1.09885+00	1.21199+00	1.32774+00	1.44509+00	1.56293+00
49	6.08015-01	6.96556-01	7.91210-01	8.91532-01	9.96928-01	1.10669+00	1.21999+00	1.33588+00	1.45333+00	1.57123+00
50	6.21487-01	7.10626-01	8.05901-01	9.06858-01	1.01291+00	1.12332+00	1.23725+00	1.35375+00	1.47174+00	1.59012+00
51	6.41654-01	7.31857-01	8.28248-01	9.30354-01	1.03757+00	1.14915+00	1.26423+00	1.38182+00	1.50083+00	1.62011+00
52	6.68798-01	7.60592-01	8.58637-01	9.62451-01	1.07140+00	1.18472+00	1.30151+00	1.42073+00	1.54126+00	1.66190+00
53	7.03237-01	7.97203-01	8.97508-01	1.00366+00	1.11499+00	1.23069+00	1.34980+00	1.47126+00	1.59386+00	1.71636+00
54	7.45335-01	8.42116-01	9.45373-01	1.05457+00	1.16901+00	1.28783+00	1.41001+00	1.53438+00	1.65969+00	1.78460+00
55	7.95486-01	8.95821-01	1.00282+00	1.11590+00	1.23431+00	1.35711+00	1.48320+00	1.61130+00	1.74004+00	1.86800+00
56	8.54152-01	9.58884-01	1.07053+00	1.18648+00	1.31188+00	1.43970+00	1.57069+00	1.70348+00	1.83654+00	1.96829+00
57	9.21879-01	1.03197+00	1.14933+00	1.27328+00	1.40289+00	1.53698+00	1.67414+00	1.81278+00	1.95119+00	2.08762+00
58	9.99280-01	1.11584+00	1.24017+00	1.37150+00	1.50879+00	1.65067+00	1.79552+00	1.94147+00	2.08655+00	2.22670+00
59	1.08706+00	1.21138+00	1.34415+00	1.48453+00	1.63130+00	1.78287+00	1.93732+00	2.09242+00	2.24579+00	2.39501+00
60	1.18601+00	1.31959+00	1.46256+00	1.61398+00	1.77246+00	1.93613+00	2.10263+00	2.26925+00	2.43302+00	2.59099+00
61	1.29700+00	1.44160+00	1.59686+00	1.76178+00	1.93476+00	2.11356+00	2.29531+00	2.47656+00	2.65353+00	2.82244+00
62	1.42094+00	1.57862+00	1.74869+00	1.93011+00	2.12110+00	2.31900+00	2.52021+00	2.72030+00	2.91427+00	3.09710+00
63	1.55878+00	1.73196+00	1.91985+00	2.12148+00	2.33493+00	2.55709+00	2.78346+00	3.00821+00	3.22454+00	3.42544+00
64	1.71140+00	1.90290+00	2.11222+00	2.33862+00	2.58018+00	2.83341+00	3.09275+00	3.35045+00	3.59693+00	3.82202+00
65	1.87957+00	2.09268+00	2.32771+00	2.58443+00	2.86126+00	3.15457+00	3.45775+00	3.76048+00	4.04898+00	4.30767+00
66	2.06378+00	2.30226+00	2.56604+00	2.86179+00	3.18283+00	3.52815+00	3.89038+00	4.25018+00	4.60545+00	4.91327+00
67	2.26407+00	2.53210+00	2.83455+00	3.17326+00	3.54933+00	3.96222+00	4.40492+00	4.86113+00	5.30206+00	5.68658+00
68	2.47976+00	2.78220+00	3.12778+00	3.52085+00	3.96362+00	4.46462+00	5.01742+00	5.60562+00	6.19019+00	6.70575+00
69	2.70905+00	3.05087+00	3.44719+00	3.90418+00	4.43734+00	5.06107+00	5.77054+00	6.55562+00	7.36522+00	0.00000
70	2.94855+00	3.33478+00	3.79069+00	4.32887+00	4.97863+00	5.76048+00	0.00000	0.00000	0.00000	0.00000
71	3.19261+00	3.62706+00	4.15015+00	4.78326+00	5.56802+00	0.00000	0.00000	0.00000	0.00000	0.00000
72	3.43309+00	3.91662+00	4.51077+00	5.24819+00	6.18270+00	0.00000	0.00000	0.00000	0.00000	0.00000
73	3.65966+00	4.18831+00	4.85071+00	5.69516+00	6.79156+00	0.00000	0.00000	0.00000	0.00000	0.00000
74	3.86119+00	4.42437+00	5.14079+00	6.07824+00	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
75	4.02800+00	4.60852+00	5.35053+00	6.33021+00	7.65196+00	0.00000	0.00000	0.00000	0.00000	0.00000
76	4.15447+00	4.73199+00	5.46443+00	6.42000+00	7.68674+00	0.00000	0.00000	0.00000	0.00000	0.00000
77	4.24028+00	4.79625+00	5.48882+00	6.37023+00	7.50689+00	0.00000	0.00000	0.00000	0.00000	0.00000
78	4.28964+00	4.81072+00	5.44409+00	6.22218+00	7.17907+00	8.36654+00	0.00000	0.00000	0.00000	0.00000
79	4.30932+00	4.78829+00	5.35499+00	6.02764+00	6.81981+00	7.74097+00	8.80006+00	9.93126+00	1.09230+01	0.00000
80	4.30678+00	4.74144+00	5.24174+00	5.81485+00	6.46487+00	7.18116+00	7.94517+00	8.69677+00	9.31456+00	9.65153+00
81	4.28901+00	4.68068+00	5.11966+00	5.60632+00	6.13589+00	6.69426+00	7.25423+00	7.76697+00	8.16145+00	8.36435+00
82	4.26203+00	4.61427+00	4.99928+00	5.41340+00	5.84812+00	6.28772+00	6.70702+00	7.06993+00	7.33295+00	7.45651+00
83	4.23076+00	4.54839+00	4.88766+00	5.24281+00	5.60396+00	5.95594+00	6.27765+00	6.54272+00	6.72293+00	6.79472+00
84	4.19911+00	4.48752+00	4.78935+00	5.09783+00	5.40294+00	5.69091+00	5.94440+00	6.10363+00	6.26908+00	6.30531+00
85	4.17002+00	4.43479+00	4.70706+00	4.97973+00	5.24310+00	5.48490+00	5.69066+00	5.84493+00	5.93325+00	5.94650+00

86	4.14562+00	4.39228+00	4.64234+00	4.88866+00	5.12203+00	5.33138+00	5.50432+00	5.62814+00	5.69132+00	5.68518+00
87	4.12738+00	4.36129+00	4.59595+00	4.82426+00	5.03746+00	5.22536+00	5.37688+00	5.48101+00	5.52793+00	5.51029+00
88	4.11620+00	4.34255+00	4.56816+00	4.78600+00	4.98760+00	5.16328+00	5.30271+00	5.39577+00	5.43354+00	5.40933+00
89	4.11472+00	4.33587+00	4.55502+00	4.76525+00	4.95831+00	5.12495+00	5.25551+00	5.34063+00	5.37216+00	5.34402+00

TABLE OF D FUNCTION

I	J = 31	J = 32	J = 33	J = 34	J = 35	J = 36	J = 37	J = 38	J = 39	J = 40
1	1.09520+01	1.05793+01	1.00871+01	9.48899+00	8.80098+00	8.04041+00	7.22419+00	6.36755+00	5.48341+00	4.58194+00
2	1.10895+01	1.07114+01	1.02104+01	9.60162+00	8.90293+00	8.13322+00	7.31067+00	6.45160+00	5.56995+00	4.67736+00
3	1.13013+01	1.09214+01	1.04154+01	9.80053+00	9.09696+00	8.32569+00	7.50679+00	6.65848+00	5.79695+00	4.93723+00
4	1.16623+01	1.12774+01	1.07603+01	1.01322+01	9.41732+00	8.64005+00	7.82338+00	6.99804+00	6.15283+00	5.33609+00
5	1.21883+01	1.17918+01	1.12534+01	1.06004+01	9.86323+00	9.07117+00	8.25077+00	7.42532+00	6.61567+00	5.84197+00
6	1.29060+01	1.24861+01	1.19090+01	1.12125+01	1.04357+01	9.61444+00	8.77915+00	7.95513+00	7.16406+00	6.42609+00
7	1.38582+01	1.33934+01	1.27490+01	1.19795+01	1.11370+01	1.02654+01	9.39847+00	8.56242+00	7.77820+00	7.06402+00
8	1.51121+01	1.45636+01	1.38044+01	1.29161+01	1.19699+01	1.10186+01	1.00977+01	9.23174+00	8.43911+00	7.73435+00
9	1.67744+01	1.60712+01	1.51163+01	1.40378+01	1.29337+01	1.18658+01	1.08632+01	9.94591+00	9.12736+00	8.41663+00
10	1.90193+01	1.80266+01	1.67357+01	1.53569+01	1.40169+01	1.27940+01	1.16767+01	1.06841+01	9.82116+00	9.08948+00
11	2.22519+01	2.07308+01	1.88473+01	1.69761+01	1.52533+01	1.37761+01	1.25135+01	1.14198+01	1.04946+01	9.72901+00
12	0.00000	2.43447+01	2.15278+01	1.89028+01	1.66532+01	1.48148+01	1.33405+01	1.21178+01	1.11162+01	1.03081+01
13	0.00000	0.00000	0.00000	2.09843+01	1.80673+01	1.58159+01	1.40947+01	1.27294+01	1.16477+01	1.07968+01
14	0.00000	0.00000	0.00000	2.29593+01	1.93303+01	1.66510+01	1.46874+01	1.31946+01	1.20473+01	1.11647+01
15	0.00000	0.00000	0.00000	0.00000	2.01125+01	1.71433+01	1.50184+01	1.34526+01	1.22760+01	1.13856+01
16	0.00000	0.00000	0.00000	0.00000	2.01585+01	1.71432+01	1.50072+01	1.34585+01	1.23072+01	1.14425+01
17	0.00000	0.00000	0.00000	0.00000	1.93049+01	1.65822+01	1.46270+01	1.32001+01	1.21347+01	1.13325+01
18	0.00000	0.00000	0.00000	0.00000	1.77115+01	1.55462+01	1.39249+01	1.27052+01	1.17764+01	1.10679+01
19	0.00000	0.00000	0.00000	1.76851+01	1.57843+01	1.42388+01	1.30056+01	1.20332+01	1.12692+01	1.06740+01
20	0.00000	0.00000	0.00000	1.50125+01	1.38756+01	1.28628+01	1.19852+01	1.12551+01	1.06597+01	1.01832+01
21	0.00000	1.37551+01	1.34097+01	1.28260+01	1.21867+01	1.15513+01	1.09551+01	1.04345+01	9.99326+00	9.62974+00
22	1.12251+01	1.14288+01	1.13393+01	1.10786+01	1.07370+01	1.03536+01	9.96897+00	9.61767+00	9.30779+00	9.04423+00
23	9.43984+00	9.66701+00	9.71672+00	9.63987+00	9.48249+00	9.27589+00	9.05393+00	8.63477+00	8.63134+00	8.45167+00
24	8.04341+00	8.28454+00	8.41334+00	8.44870+00	8.41447+00	8.33283+00	8.22398+00	8.10344+00	7.98286+00	7.87074+00
25	6.96405+00	7.20624+00	7.37284+00	7.47103+00	7.51291+00	7.51193+00	7.48114+00	7.43196+00	7.37384+00	7.31430+00
26	6.10634+00	6.34307+00	6.52680+00	6.65975+00	6.74783+00	6.79876+00	6.82096+00	6.82235+00	6.81012+00	6.79037+00
27	5.41026+00	5.63841+00	5.82816+00	5.97947+00	6.09494+00	6.17885+00	6.23637+00	6.27291+00	6.29366+00	6.30332+00
28	4.83601+00	5.05423+00	5.24381+00	5.40371+00	5.53470+00	5.63897+00	5.71957+00	5.78003+00	5.82397+00	5.85487+00
29	4.35604+00	4.56394+00	4.74993+00	4.91252+00	5.05149+00	5.16773+00	5.26292+00	5.33923+00	5.39910+00	5.44497+00
30	3.95064+00	4.14835+00	4.32891+00	4.49065+00	4.63280+00	4.75547+00	4.85939+00	4.94582+00	5.01627+00	5.07241+00
31	3.60529+00	3.79325+00	3.96750+00	4.12630+00	4.26861+00	4.39403+00	4.50270+00	4.59520+00	4.67239+00	4.73531+00
32	3.30911+00	3.48790+00	3.65551+00	3.81021+00	3.95082+00	4.07661+00	4.18734+00	4.28309+00	4.36428+00	4.43145+00
33	3.05371+00	3.22402+00	3.38502+00	3.53505+00	3.67284+00	3.79750+00	3.90848+00	4.00558+00	4.08883+00	4.15844+00
34	2.83259+00	2.99511+00	3.14975+00	3.29491+00	3.42929+00	3.55189+00	3.66199+00	3.75916+00	3.84315+00	3.91392+00
35	2.64062+00	2.79605+00	2.94470+00	3.08504+00	3.21576+00	3.33579+00	3.44430+00	3.54068+00	3.62453+00	3.69559+00
36	2.47368+00	2.62271+00	2.76583+00	2.90154+00	3.02857+00	3.14580+00	3.25233+00	3.34742+00	3.43056+00	3.50134+00
37	2.32849+00	2.47180+00	2.60985+00	2.74125+00	2.86470+00	2.97908+00	3.08344+00	3.17698+00	3.25905+00	3.32917+00
38	2.20240+00	2.34061+00	2.47410+00	2.60153+00	2.72161+00	2.83323+00	2.93539+00	3.02724+00	3.10808+00	3.17735+00
39	2.09326+00	2.22697+00	2.35640+00	2.48023+00	2.59722+00	2.70623+00	2.80627+00	2.89643+00	2.97597+00	3.04426+00
40	1.99932+00	2.12911+00	2.25497+00	2.37560+00	2.48979+00	2.59642+00	2.69445+00	2.78299+00	2.86124+00	2.92854+00
41	1.91919+00	2.04561+00	2.16835+00	2.28618+00	2.39790+00	2.50238+00	2.59859+00	2.68561+00	2.76264+00	2.82898+00
42	1.85178+00	1.97532+00	2.09540+00	2.21091+00	2.32038+00	2.42296+00	2.51755+00	2.60320+00	2.67910+00	2.74453+00
43	1.79622+00	1.91735+00	2.03521+00	2.14858+00	2.25629+00	2.35725+00	2.45042+00	2.53486+00	2.60975+00	2.67436+00
44	1.75186+00	1.87104+00	1.98707+00	2.09875+00	2.20493+00	2.30451+00	2.39647+00	2.47987+00	2.55387+00	2.61775+00
45	1.71827+00	1.83592+00	1.95050+00	2.06082+00	2.16576+00	2.26422+00	2.35517+00	2.43768+00	2.51091+00	2.57414+00
46	1.69516+00	1.81167+00	1.92516+00	2.03446+00	2.13843+00	2.23599+00	2.32612+00	2.40789+00	2.48048+00	2.54316+00
47	1.68243+00	1.79817+00	1.91091+00	2.01948+00	2.12274+00	2.21962+00	2.30910+00	2.39028+00	2.46232+00	2.52452+00

48	1.68011+00	1.79545+00	1.90776+00	2.01587+00	2.11866+00	2.21505+00	2.30404+00	2.38474+00	2.45632+00	2.51809+00
49	1.68841+00	1.80369+00	1.91588+00	2.02380+00	2.12632+00	2.22239+00	2.31102+00	2.39133+00	2.46251+00	2.52389+00
50	1.70769+00	1.82325+00	1.93559+00	2.04356+00	2.14602+00	2.24190+00	2.33027+00	2.41024+00	2.48105+00	2.54206+00
51	1.73845+00	1.85463+00	1.96742+00	2.07564+00	2.17819+00	2.27401+00	2.36217+00	2.44183+00	2.51226+00	2.57285+00
52	1.78141+00	1.89854+00	2.01204+00	2.12072+00	2.22348+00	2.31930+00	2.40726+00	2.48658+00	2.55657+00	2.61667+00
53	1.83747+00	1.95589+00	2.07035+00	2.17967+00	2.28274+00	2.37856+00	2.46628+00	2.54515+00	2.61456+00	2.67403+00
54	1.90777+00	2.02784+00	2.14352+00	2.25360+00	2.35700+00	2.45278+00	2.54012+00	2.61837+00	2.68699+00	2.74559+00
55	1.99374+00	2.11583+00	2.23296+00	2.34390+00	2.44760+00	2.54317+00	2.62990+00	2.70722+00	2.77473+00	2.63213+00
56	2.09718+00	2.22169+00	2.34047+00	2.45229+00	2.55615+00	2.65124+00	2.73697+00	2.81291+00	2.87880+00	2.93453+00
57	2.22032+00	2.34768+00	2.46828+00	2.58091+00	2.68464+00	2.77878+00	2.86291+00	2.93680+00	3.00041+00	3.05379+00
58	2.36600+00	2.49665+00	2.61918+00	2.73240+00	2.83549+00	2.92796+00	3.00962+00	3.08051+00	3.14085+00	3.19098+00
59	2.53782+00	2.67223+00	2.79667+00	2.91003+00	3.01167+00	3.10137+00	3.17930+00	3.24583+00	3.30158+00	3.34721+00
60	2.74042+00	2.87906+00	3.00522+00	3.11792+00	3.21683+00	3.30214+00	3.37449+00	3.43479+00	3.48412+00	3.52358+00
61	2.97990+00	3.12319+00	3.25057+00	3.36127+00	3.45546+00	3.53397+00	3.59814+00	3.64959+00	3.69002+00	3.72109+00
62	3.26434+00	3.41265+00	3.54023+00	3.64674+00	3.73314+00	3.80130+00	3.85358+00	3.89255+00	3.92074+00	3.94048+00
63	3.60479+00	3.75832+00	3.88418+00	3.98290+00	4.05683+00	4.10940+00	4.14450+00	4.16600+00	4.17748+00	4.18207+00
64	4.01674+00	4.17529+00	4.29598+00	4.38101+00	4.43516+00	4.46442+00	4.47485+00	4.47207+00	4.46093+00	4.44548+00
65	4.52257+00	4.68517+00	4.79445+00	4.85593+00	4.87887+00	4.87335+00	4.84857+00	4.81231+00	4.77089+00	4.72923+00
66	5.15600+00	5.32005+00	5.40636+00	5.42745+00	5.40100+00	5.34376+00	5.26904+00	5.18711+00	5.10567+00	5.03030+00
67	5.97051+00	6.12975+00	6.17098+00	6.12179+00	6.01664+00	5.88299+00	5.73819+00	5.59477+00	5.46134+00	5.34346+00
68	7.05673+00	7.19528+00	7.14826+00	6.97287+00	6.74063+00	6.49667+00	6.25485+00	6.03021+00	5.83068+00	5.66061+00
69	8.57465+00	8.66200+00	8.45499+00	8.04909+00	7.60028+00	7.18391+00	6.81278+00	6.48311+00	6.20200+00	5.97006+00
70	0.00000	0.00000	0.00000	9.41235+00	8.62250+00	7.94971+00	7.39735+00	6.93514+00	6.55769+00	6.25614+00
71	0.00000	0.00000	0.00000	0.00000	9.78193+00	8.75756+00	7.97366+00	7.35630+00	6.87342+00	6.49928+00
72	0.00000	0.00000	0.00000	0.00000	1.09715+01	9.52472+00	8.48109+00	7.70437+00	7.11946+00	6.67778+00
73	0.00000	0.00000	0.00000	0.00000	1.19371+01	1.01084+01	8.83830+00	7.93101+00	7.26534+00	6.77107+00
74	0.00000	0.00000	0.00000	0.00000	0.00000	1.03514+01	8.96887+00	7.99591+00	7.28762+00	6.76413+00
75	0.00000	0.00000	0.00000	0.00000	1.20414+01	1.01697+01	8.84074+00	7.88358+00	7.17762+00	6.65142+00
76	0.00000	0.00000	0.00000	0.00000	1.12210+01	9.65920+00	8.48959+00	7.61081+00	6.94449+00	6.43843+00
77	0.00000	0.00000	0.00000	0.00000	1.02065+01	8.96990+00	7.98921+00	7.21710+00	6.61144+00	6.13993+00
78	0.00000	0.00000	0.00000	1.03120+01	9.18440+00	8.22197+00	7.41355+00	6.74836+00	6.20817+00	5.77616+00
79	1.13820+01	1.07890+01	9.97170+00	9.08978+00	8.25126+00	7.48907+00	6.81840+00	6.24513+00	5.76405+00	5.36876+00
80	9.60962+00	9.25206+00	8.70323+00	8.06829+00	7.42231+00	6.80426+00	6.23968+00	5.73835+00	5.30421+00	4.93793+00
81	8.33585+00	8.09600+00	7.70340+00	7.22229+00	6.70558+00	6.19005+00	5.69996+00	5.24990+00	4.84849+00	4.50100+00
82	7.42049+00	7.23315+00	6.92502+00	6.53531+00	6.10114+00	5.65254+00	5.21175+00	4.79452+00	4.41195+00	4.07229+00
83	6.74641+00	6.58205+00	6.31920+00	5.98288+00	5.59942+00	5.19250+00	4.78160+00	4.38209+00	4.00609+00	3.66374+00
84	6.24469+00	6.08937+00	5.85034+00	5.54445+00	5.19082+00	4.80814+00	4.41302+00	4.01969+00	3.64034+00	3.28603+00
85	5.87315+00	5.72030+00	5.49330+00	5.20410+00	4.86707+00	4.49709+00	4.10819+00	3.71309+00	3.32327+00	2.94977+00
86	5.60526+00	5.45202+00	5.23068+00	4.95015+00	4.62165+00	4.25728+00	3.86889+00	3.46755+00	3.06349+00	2.66669+00
87	5.42418+00	5.26968+00	5.05071+00	4.77435+00	4.44980+00	4.08722+00	3.69679+00	3.28805+00	2.86972+00	2.44999+00
88	5.31950+00	5.16391+00	4.94579+00	4.67121+00	4.34823+00	3.98586+00	3.59322+00	3.17876+00	2.74994+00	2.31313+00
89	5.25286+00	5.09840+00	4.88340+00	4.61320+00	4.29498+00	3.93695+00	3.54746+00	3.13435+00	2.70447+00	2.26341+00

TABLE OF B FUNCTION

I	J = 41	J = 42	J = 43	J = 44	J = 45	J =
1	3.67065+00	2.75457+00	1.83671+00	9.18446-01	0.00000	
2	3.78402+00	2.90119+00	2.04918+00	1.29246+00	9.09932-01	
3	4.09540+00	3.29387+00	2.57386+00	2.02369+00	1.80324+00	
4	4.55856+00	3.84862+00	3.25073+00	2.83396+00	2.67965+00	
5	5.12654+00	4.49750+00	3.99250+00	3.65867+00	3.53776+00	
6	5.76222+00	5.19665+00	4.75806+00	4.47742+00	4.37467+00	
7	6.43763+00	5.91787+00	5.52505+00	5.27912+00	5.18569+00	
8	7.13051+00	6.64059+00	6.27773+00	6.05413+00	5.96404+00	
9	7.82093+00	7.34709+00	7.00197+00	6.79193+00	6.70078+00	
10	8.48901+00	8.01994+00	7.68324+00	7.48043+00	7.38500+00	
11	9.11353+00	8.64081+00	8.30594+00	8.10605+00	8.00424+00	

12	9.67158+00	9.19049+00	8.85374+00	8.65433+00	8.54529+00
13	1.01393+01	9.64964+00	9.31048+00	9.11104+00	8.99531+00
14	1.04940+01	1.00005+01	9.66173+00	9.46362+00	9.34315+00
15	1.07170+01	1.02293+01	9.89656+00	9.70277+00	9.58075+00
16	1.07969+01	1.03281+01	1.00092+01	9.82301+00	9.70430+00
17	1.07327+01	1.02967+01	1.00001+01	9.82768+00	9.71497+00
18	1.05337+01	1.01431+01	9.87641+00	9.72106+00	9.61905+00
19	1.02184+01	9.88214+00	9.65095+00	9.51575+00	9.42748+00
20	9.81166+00	9.53365+00	9.34082+00	9.22744+00	9.15464+00
21	9.34000+00	9.11979+00	8.96537+00	8.87396+00	8.81712+00
22	8.82899+00	8.66245+00	8.54421+00	8.47367+00	8.43212+00
23	8.30075+00	8.18153+00	8.09565+00	8.04396+00	8.01621+00
24	7.77302+00	7.69376+00	7.63562+00	7.60024+00	7.58430+00
25	7.25906+00	7.21234+00	7.17712+00	7.15535+00	7.14908+00
26	6.76806+00	6.74705+00	6.73019+00	6.71941+00	6.72074+00
27	6.30589+00	6.30465+00	6.30208+00	6.29994+00	6.30696+00
28	5.87580+00	5.88938+00	5.89766+00	5.90212+00	5.91323+00
29	5.47912+00	5.50353+00	5.51985+00	5.52925+00	5.54314+00
30	5.11582+00	5.14798+00	5.17010+00	5.18308+00	5.19874+00
31	4.78502+00	4.82253+00	4.84873+00	4.86425+00	4.88089+00
32	4.48525+00	4.52633+00	4.55528+00	4.57253+00	4.58960+00
33	4.21473+00	4.25806+00	4.28879+00	4.30717+00	4.32425+00
34	3.97155+00	4.01618+00	4.04795+00	4.06703+00	4.08386+00
35	3.75376+00	3.79901+00	3.83133+00	3.85078+00	3.86721+00
36	3.55951+00	3.60490+00	3.63741+00	3.65701+00	3.67293+00
37	3.38698+00	3.43222+00	3.46469+00	3.48426+00	3.49964+00
38	3.23459+00	3.27946+00	3.31172+00	3.33121+00	3.34602+00
39	3.10082+00	3.14521+00	3.17718+00	3.19650+00	3.21079+00
40	2.98436+00	3.02823+00	3.05984+00	3.07897+00	3.09278+00
41	2.88405+00	2.92739+00	2.95865+00	2.97756+00	2.99092+00
42	2.79891+00	2.84173+00	2.87262+00	2.89132+00	2.90430+00
43	2.72808+00	2.77041+00	2.80096+00	2.81946+00	2.83211+00
44	2.67088+00	2.71276+00	2.74300+00	2.76131+00	2.77371+00
45	2.62676+00	2.66823+00	2.69818+00	2.71633+00	2.72854+00
46	2.59531+00	2.63642+00	2.66611+00	2.68410+00	2.69617+00
47	2.57626+00	2.61704+00	2.64650+00	2.66434+00	2.67634+00
48	2.56947+00	2.60995+00	2.63917+00	2.65687+00	2.66886+00
49	2.57492+00	2.61510+00	2.64410+00	2.66165+00	2.67369+00
50	2.59272+00	2.63259+00	2.66135+00	2.67875+00	2.69087+00
51	2.62311+00	2.66263+00	2.69110+00	2.70832+00	2.72058+00
52	2.66643+00	2.70552+00	2.73365+00	2.75065+00	2.76306+00
53	2.72317+00	2.76168+00	2.78937+00	2.80608+00	2.81867+00
54	2.79388+00	2.83165+00	2.85874+00	2.87508+00	2.88785+00
55	2.87925+00	2.91600+00	2.94230+00	2.95813+00	2.97105+00
56	2.98006+00	3.01541+00	3.04063+00	3.05579+00	3.06880+00
57	3.09711+00	3.13057+00	3.15435+00	3.16859+00	3.18159+00
58	3.23129+00	3.26218+00	3.28400+00	3.29702+00	3.30984+00
59	3.38342+00	3.41085+00	3.43006+00	3.44146+00	3.45387+00
60	3.55425+00	3.57706+00	3.59281+00	3.60206+00	3.61371+00
61	3.74432+00	3.76101+00	3.77220+00	3.77866+00	3.78907+00
62	3.95383+00	3.96247+00	3.96774+00	3.97057+00	3.97913+00
63	4.18242+00	4.18062+00	4.17827+00	4.17647+00	4.18239+00
64	4.42893+00	4.41375+00	4.40174+00	4.39411+00	4.39641+00
65	4.69103+00	4.65898+00	4.63494+00	4.62012+00	4.61765+00
66	4.96487+00	4.91197+00	4.87326+00	4.84973+00	4.84123+00
67	5.24455+00	5.16654+00	5.11042+00	5.07667+00	5.06081+00
68	5.52176+00	5.41445+00	5.33835+00	5.29299+00	5.26856+00

69	5.78541+00	5.64531+00	5.54725+00	5.48927+00	5.45537+00
70	6.02168+00	5.84684+00	5.72590+00	5.65492+00	5.61118+00
71	6.21461+00	6.00553+00	5.86238+00	5.77889+00	5.72571+00
72	6.34758+00	6.10792+00	5.94513+00	5.85062+00	5.78926+00
73	6.40562+00	6.14230+00	5.96426+00	5.86119+00	5.79372+00
74	6.37813+00	6.10047+00	5.91291+00	5.80437+00	5.73350+00
75	6.26114+00	5.97921+00	5.78821+00	5.67747+00	5.60612+00
76	6.05812+00	5.78081+00	5.59172+00	5.48164+00	5.41251+00
77	5.77912+00	5.51255+00	5.32910+00	5.22168+00	5.15683+00
78	5.43866+00	5.18542+00	5.00918+00	4.90523+00	4.84586+00
79	5.05320+00	4.81239+00	4.64271+00	4.54179+00	4.48815+00
80	4.63904+00	4.40689+00	4.24109+00	4.14159+00	4.09303+00
81	4.21108+00	3.98167+00	3.81541+00	3.71460+00	3.66974+00
82	3.78234+00	3.54824+00	3.37575+00	3.26989+00	3.22674+00
83	3.36431+00	3.11699+00	2.93106+00	2.81521+00	2.77120+00
84	2.96783+00	2.69782+00	2.48957+00	2.35701+00	2.30884+00
85	2.60446+00	2.30170+00	2.05985+00	1.90089+00	1.84389+00
86	2.28833+00	1.94317+00	1.65356+00	1.45282+00	1.37921+00
87	2.03760+00	1.64442+00	1.29165+00	1.02324+00	9.16531-01
88	1.87401+00	1.43875+00	1.01802+00	6.44596-01	4.56707-01
89	1.81543+00	1.36355+00	9.09702-01	4.55011-01	0.00000

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*XQ! ED*VAC,ABS2
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CASE 10 DATE 07/01/77
FOR A TOTAL FLUX OF 0.15 WEBERS:

THE INPUT PARAMETERS ARE:

RZERO	WR	HZ	X1	Y1	X2	Y2	D1	D2	PW	PH	H	EPS
28.00	44.00	22.00	7.74	7.74	7.50	7.50	5.00	5.00	10.00	.00	.50	.10-05

B AT OUTER WALL MIDPLANE 2.01 KG

DESIGN CASE

MAXIMUM VALUE OF B 24.34 KG

PSI AT SEPARATRIX 5.04

PSI AT CRITICAL 8.23

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*XQT ED*VAC,ABS3
*FIN

   RUNID:  CC0007   PROJECT: 02980            USER: 2431196993
16:03:44   PLOTTING USING STD OUTPUT
16:08:51   PLOTTER OUTPUT BY INITPL
16:09:07   GSP: END OF PLOT,  264    SECTORS WRITTEN
```

ITEM	AMOUNT	COST
CPU TIME	00:06:15.625	$5.63
FILE I/O REQUESTS	348	$0.06
FILE I/O WORDS	285325	$0.05
MEMORY USAGE	4.353	$1.15
CARDS IN	25	$0.01
PAGES PRINTED	20	$0.32
ER + CC	13	$0.05
JOB CHARGE	1	$0.08
TOTAL COST		$7.35

THE ABOVE DOLLAR AMOUNTS ARE APPROXIMATE AND ARE BASED ON RATES FOR WEEKEND RUNS
USER BALANCE $186.48

INITIATION TIME: 16:03:40 JUL 2,1977

TERMINATION TIME: 16:09:09 JUL 2,1977

PREVIOUS RUN TIME: 16:01:07 JUL 2,1977