bal01.wb3 15 May 99

cos(theta)=((1+rr)/(2*rr^(0.5)))*((1-kk)/(1+kk))

Npoints	50	
KKdB	-30	
kk	0.001	= +10^(-KKdB/10)
RRmin	0.8811	+ (((1+kk)/(1-kk))-(((1+kk)/(1-kk))^2-1)^0.5)^2

r = 1-(1-(RRmin^0.5))*@COS(A14*@PI/(2*Npoints))

Theta = @DEGREES(@ACOS(((1+B14^2)/(2*B14))*(1-kk)/(1+kk))

Point	r	-r dB	Theta (deg)	
0	0.9387	0.550	0.00	
1	0.9387	0.549	0.12	
2	0.9388	0.548	0.23	
3	0.9390	0.547	0.35	
4	0.9392	0.545	0.46	
5	0.9394	0.543	0.58	
6	0.9398	0.539	0.69	
7	0.9402	0.536	0.80	
8	0.9406	0.532	0.91	
9	0.9411	0.527	1.03	
10	0.9417	0.522	1.14	
11	0.9423	0.516	1.24	
12	0.9430	0.510	1.35	
13	0.9437	0.503	1.46	
14	0.9445	0.496	1.56	
15	0.9454	0.488	1.67	
16	0.9463	0.480	1.77	
17	0.9472	0.471	1.87	
18	0.9482	0.462	1.96	
19	0.9493	0.452	2.06	
20	0.9504	0.442	2.15	
21	0.9516	0.431	2.24	
22	0.9528	0.420	2.33	
23	0.9540	0.409	2.42	
24	0.9553	0.397	2.50	
25	0.9566	0.385	2.59	
26	0.9580	0.372	2.66	
27	0.9595	0.359	2.74	
28	0.9609	0.346	2.81	
29	0.9624	0.333	2.88	
30	0.9640	0.319	2.95	30 dB
31	0.9655	0.305	3.02	
32	0.9672	0.290	3.08	
33	0.9688	0.275	3.13	
34	0.9705	0.260	3.19	
35	0.9722	0.245	3.24	
36	0.9739	0.230	3.29	
37	0.9757	0.214	3.34	
38	0.9774	0.198	3.38	
39	0.9792	0.182	3.42	
40	0.9811	0.166	3.45	
41	0.9829	0.150	3.49	
42	0.9848	0.133	3.51	
43	0.9866	0.117	3.54	
44	0.9885	0.100	3.56	
45	0.9904	0.084	3.58	
46	0.9923	0.067	3.60	
47	0.9942	0.050	3.61	
48	0.9962	0.034	3.62	
49	0.9981	0.017	3.62	
50	1.0000	0.000	3.62