a) First ñ-1 roots: modified

Dolph-Chebycher (3.193)

Rest of roots: uniform (3.194)

weights w= poly(Z)

c) the weights are:

b) From plots, we see that as in increases, more Dolph-Chebychen roots are used and the beampattern is closer to the D-C. Beampattern. Sidelubes are higher!

0.0109 0.0119 0.0132 0.0150 0.0170 0.0192 0.0214 0.0236 0.0257 0.0277 0.0296 0.0313 0.0330 0.0344 0.0356 0.0365 0.0372 0.0376 0.0377 0.0376 0.0372 0.0365 0.0356 0.0344 0.0330 0.0313 0.0296 0.0277 0.0257 0.0236 0.0214 0.0192 0.0170 0.0150 0.0132 0.0119

0.0109 0.0103 0.0100

0.0100

