Subject: Re: Benefits of a wideband driver for off axis decay
Posted by Wayne Parham on Wed, 05 Oct 2005 22:48:42 GMT
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Controlled directivity is desireable because you can reduce early reflections by directing the sound so it doesn't bounce off nearby walls. Constant directivity is desireable because it makes the reverberent field uniformly charged. Next best thing is uniformly collapsing DI. A single driver is a direct radiator, so low frequencies are nearly omnidirectional, but the pattern gets more and more narrow as frequency rises. The reverberent field will have less HF energy as a result, but at least early reflections of HF will be reduced and there will no abrupt transitions of directivity.