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Subject: Re: directivity

Posted by [rcw](#) on Mon, 08 Aug 2005 01:02:00 GMT

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I have not looked at this forum in a while so didn't see Earl Geddes reply to my post. Yes I have measured the directivity and in the horizontal plane it is constant from around 350Hz. in the vertical from around 1200Hz. The idea behind this is that lateral early reflections are all right since they are processed bi laterally by the ears, but vertical reflections that arrive at the ears virtually simultaneously are difficult to differentiate, this is I am told the basis of the THX 40 degree vertical directivity spec, you seem to have a different opinion. The work I mentioned is from when Toole was an academic researcher, and is the result of double blind tests that he conducted, apparently in listening to loudspeaker systems with the same overall qualities in terms of linearity and distortion, people preferred wider dispersion types, to a significant extent.

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