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Subject: Re: differences in APT horn flairs

Posted by [Wayne Parham](#) on Thu, 09 Sep 2004 20:21:13 GMT

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I don't really care for the sound of CD horns with sharp edges. They're designed to control the radiating angle at frequency extremes, but I believe they do this at the expense of sound quality. I much prefer 90°x40° radial horns with straight side walls and a simple radiused throat. These provide nearly constant directivity in the horizontal plane and uniformly collapsing directivity in the vertical plane, which I think sounds great. It is also relatively easy to work with in the crossover, because their shape allows tight vertical spacing, which in turn sets the vertical nulls outside the HF pattern. The end result is a speaker with very smooth response with a desirably large 90°x40° forward lobe.

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