Subject: Corner horn flare on 7 pi
Posted by Dan K. on Tue, 27 Aug 2002 10:33:27 GMT
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I have been looking at the designs for the 7 PI's you sent out, and there is something I don't understand. The picture makes it look as though the woofer essentially fires directly into the corner and only uses reflection. I would have expected the back corner of the horn to have a 'V' wedge that was part phasing plug and partly the first flare of the horn. Sort of like this:_____|xxxx||xxxx||----||Sorry I can't make better angles than that. I know this is a conical horn and not a W fold, but can you explain why there isn't such a piece in the back. I guess it is my assumption it would improve both loading and hi-frequency clarity.Dan

Subject: Re: Corner horn flare on 7 pi
Posted by Wayne Parham on Tue, 27 Aug 2002 16:46:59 GMT
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It looks like that would be a good idea, I agree. But I've made these with shapes just like you've shown and found no difference in practice. At the lowest frequencies where the system is truly acting as a horn, any sort of device like you've described isn't at wavelength scale and does nothing. And above that, we're dealing purely with reflected energies at wavelengths that would be difficult to get path lengths equal for. So there is no point in adding a wedge like that.