Subject: Re: MTM vs vertical MM and summing?
Posted by Wayne Parham on Fri, 07 Nov 2008 05:18:34 GMT
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Horizontal directivity of a direct radiator is approximately 90° at the frequency where diameter equals wavelength. This is a good place to crossover to a 90x40 horn, because the horizontal directivity matches.Vertical directivity is determined by the spacing of the drivers, their coverage patterns and the crossover frequency, phase and slope.You can always put the drivers on a baffle, then measure to find the appropriate crossover points and slopes to put the nulls where you want them to be. Of course, you have to be in the ballpark when positioning the drivers on the baffle, but the end result is determined by the overlap frequencies and phase, which is set by the crossover.

Baffle spacing, phase angles and time alignment, revisited