Subject: Folded horns - W verses equiangular spiral
Posted by Wayne Parham on Tue, 11 Jan 2005 13:37:03 GMT
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I've noticed on several forums lately that a new popular opinion is forming. The "W" fold was probably the most popular basshorn shape since the early days of the Klipschorn in the 1940's. But lately, I see more and more references to them being worse than direct radiators.I've always folded using an equiangular spiral but mostly because it allowed smaller turn angles. If crossed over low, it seems to me that the angles wouldn't matter much. As long as the horn was used at frequencies below 1/4 wavelength of each section, and as long as the horn is braced well, can you see any reason why a spiral fold basshorn would outperform a "W" fold? If the path length is the same and the area expansion is the same, it sems to me that performance would be the same at low frequencies. I would think the main deal is packaging and layout if all other things are equal. Could the preference be a new misconception?Thoughts anyone?