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Subject: You are absolutely correct

Posted by [Earl Geddes](#) on Mon, 19 Dec 2005 13:32:15 GMT

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It is impossible to have a phase lead at LF - it must go to zero as the frequency goes to zero or something is wrong. In this case the horn equations - Websters - are wrong and predict some things that are fictitious - like "cutoff" - doesn't happen in reality. I can't say for sure that this is the problem, but I can say for sure that anything derived from Webster's equation is wrong. Problem is that Webster's EQ should become more accurate at very LF, but if the calculations below "cutoff" are not done properly you could get the result that you see.

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