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Subject: Re: 3Pi Acoustic Axis and Listening Distance  
Posted by [Wayne Parham](#) on Sat, 14 Dec 2019 17:59:26 GMT  
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What I would define as the forward lobe centerline is the midpoint between the two vertical nulls. You can see in the video I posted in the message above exactly where those nulls occur. Watch the video for the position of the microphone above and below the speaker where you see a notch around 1.2kHz. The midpoint between them is the centerline of the forward lobe.

Bear in mind that speakers that provide constant directivity don't need the listener to be perfectly on-axis with the forward lobe centerline. As long as the listener is within the 90° x 50° pattern, sound quality is good. That's one of the main benefits of having a speaker like this.

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