similarly changed into center-right coded signals; and the stereo center image is retained as full strength center-front signal in SQ-decoded playback. The result is effectively to place the stereo orchestra in an arch extending from center left across the front to center right. This type of enhancement is especially useful with classical or concert hall type simulation.

The 270° enhancement places the stereo left channel predominantly in the left-back loudspeaker; the stereo right channel in the right-back loudspeaker. The center image remains in center front. The resultant SQ-decoded signals provide good placement and separation of all the three major stereo positions surrounding the listener. This type of enhancement is especially effective with popular selections producing Surround Sound effect.

The recommended circuit for SQ synthesis utilizes an MC1312 matrix IC in special circuit configuration. The phase shift components are selected to cover a 100 Hz to 10,000 Hz frequency range. Two emitter followers are used to lower the output impedance and to provide isolation. They are not