



FIG. 5.5. Throat acoustical resistance  $r_A$ , and acoustical reactance  $x_A$ , frequency characteristics of infinite parabolic, conical, exponential, hyperbolic, and cylindrical horns having a throat area of 1 square centimeter. The cross-sectional area of the parabolic, conical, exponential, and hyperbolic horns is 100 square centimeters at a distance of 100 centimeters from the throat.