



FIG. 5.10. The throat acoustical resistance and acoustical reactance frequency characteristics of a group of exponential horns, with a flare cutoff of 100 cycles and a throat diameter of 1 inch, as a function of the mouth diameter.  $S_1$  = the throat diameter in square centimeters.  $r_{AI}$  = acoustical resistance.  $x_{AI}$  = acoustical reactance. Note: The characteristics shown are the throat acoustical resistance or acoustical reactance multiplied by  $S_1$  and divided by  $pc$ .