8-9. A steel angle has a cross-section area of $A = 3.2 \text{ in}^2$. The smallest redius of gyration occurs about the *u-u* axis and is $r_u = 0.72 \text{ in}$. The angle is 9-ft-long and is pin-connected in a system. Assume that the modulus of elasticity follows $E \sim N(29 \times 10^3, (2 \times 10^3)^2)$ ksi. Determine the distribution of the critical axial buckling load that can be applied through its centroid *C*. (**Ans.** $P_{cr} \sim N(40.707, 2.807^2)$ ksi.)

