



Fig. 239 Elastic-plastic analysis of the **optimized unstiffened equivalent ellipsoidal shell with thick apex, $t(\text{apex})=0.61996$ in; $W_{\text{imp}}=0.2$ inch; the optimum design is listed in Table 93.** This is the **post-collapse** deformation corresponding to the last data point calculated for the last trace in Fig. 237. (That data point is not shown in Fig. 237; the last load step shown there is Step 15, and its corresponding value of PA is approximately $PA = 0.94$). The uniform external pressure in psi is the load factor, PA , times 460 psi. Compare this figure with Fig. 163, which is for a different optimum design, the one listed in Table 78.