

Fig. 214 Elastic-plastic analysis of the **optimized unstiffened equivalent ellipsoidal** shell with thick apex, t(apex) = 0.47183 in; Wimp=0.1 inch; the optimum design is listed in Table 89. This nonlinear bifurcation buckling mode shape with n = 6 circumferential waves (3 circumferential waves over 180 degrees of circumference) is used as a "trigger" imperfection with amplitude, Wimp(trigger) = 0.001 inch, in order to obtain the fourth trace in Fig. 211.