This n=2 mode shape is used as a "trigger" (Wimp=0.001 inch) for the next nonlinear collapse run
STAGS nonlinear buckling mode 1, pcr=1.0785 x 460 psi
step 10 eigenvector: deformed geometry of "trigger" imperfection
nonlinear buckling of optimized thick-apex unstiffened shell with a +mode 1 axisymmetric imperfection shape

Θ x -35.84
Θ y -13.14
Θ z   35.63

Fig. 162 Elastic-plastic analysis of the **optimized unstiffened equivalent ellipsoidal shell with thick apex, t(apex) = 0.4 in; Wimp=0.2 inch; the optimum design is listed in Table 78.** This nonlinear bifurcation buckling mode shape is used as a "trigger" imperfection with amplitude, Wimp(trigger) = 0.001 inch, in order to obtain the seventh trace in the previous figure (upside-down triangles).