



eigenvalue 6, pcr(STAGS)=2.900 x 460 = 1334.0 psi; n=3 circumferential waves

Θ x -35.84

Θ y -13.14

Θ z 35.63

step 0 eigenvector deformed geometry

linear buckling of perfect shell: unstiffened equivalent ellipsoid with thick apex (Seg.1)

Fig. 150 Non-axisymmetric (**n=3 circumferential waves**) linear buckling mode from STAGS that corresponds to the sixth eigenvalue for the **optimized unstiffened equivalent ellipsoidal shell with the thick apex with  $t(\text{apex}) = 0.4$  inch; the optimum design is listed in Table 78. Shells of revolution with imperfections with this non-axisymmetric shape cannot be handled by BIGBOSOR4.** Therefore, GENOPT optimization occurs in the presence of only axisymmetric buckling modal imperfections.