STAGS 360-degree model

mode 7, pcr(STAGS) = 3.5518 x 460 = 1633.83 psi; n=1 circumferential wave
solution scale = 0.2469E+01
                                                              Θ x -35.84
step   0   eigenvector deformed geometry   Θ y -13.14   y
                                                              Θ z   35.63
linear buckling of perfect shell: isogrid-stiffened equivalent ellipsoid: eqellipse.stiffened.opm4

Fig. 10 Seventh linear bifurcation buckling mode of the optimized **isogrid-stiffened**
equivalent ellipsoidal shell according to the STAGS program. This STAGS linear
bifurcation buckling mode is used as an initial imperfection shape with amplitude, Wimp
= 0.2 inch, to compute the nonlinear load-apex-deflection curve plotted as the last trace in
Fig. 17. Compare with the 180-degree STAGS "soccerball" model in Fig. 262. **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.