STAGS 360-degree model

mode 9, pcr(STAGS) = 4.2435 x 460 = 1952.01 psi; BIGBOSOR4 gets 1959.60 psi
STAGS prediction for shell optimized with the use of modes 1, 2, 3, 4   Θ x -35.84
step   0   eigenvector deformed geometry   Θ y -13.14   y z   x
linear buckling of perfect shell: isogrid-stiffened equivalent ellipsoid: eqellipse.stiffened.4loadsets.opm   Θ z 35.63

Fig. 63 n = 0 circumferential waves (axisymmetric) linear buckling mode shape from
STAGS for the optimum design of the **isogrid-stiffened** equivalent ellipsoidal shell listed
in Table 52. The optimum design was obtained with BIGBOSOR4 with the use of plus
and minus axisymmetric **mode 1, mode 2, mode 3, and mode 4** imperfection shapes
with amplitude, Wimp = 0.2 inch. This STAGS buckling mode is analogous to the
axisymmetric buckling mode from BIGBOSOR4 shown in Fig. 56, which in GENOPT
jargon is called "**mode 3**". It corresponds to eigenvalue no. 9 in the STAGS model.
Compare with the 2nd axisymmetric buckling mode for the "2-mode" optimized isogrid-
stiffened shell shown in Fig. 9.