STAGS 360-degree model

The stiffened shell was optimized by GENOPT with very tiny Mode 1 and 2 axisymmetric imperfections.
STAGS linear buckling mode 4, pcr= 1.3560 x 460 psi
BIGBOSOR4 gets pcr = 1.3566 x 460 psi
linear buckling of isogrid-stiffened perfect shell, optimized with very tiny mode 1 and 2 imperfections

Θ x -35.84
Θ y -13.14
Θ z   35.63

Fig. 121 +Mode 2 axisymmetric linear buckling modal imperfection shape from STAGS for the optimized design of the "**perfect" isogrid-stiffened** equivalent ellipsoidal shell. The optimum design is listed in Table 33 under the heading, "isogrid-stiffened, perfect". This STAGS buckling mode corresponds to eigenvalue no. 4. Compare with the BIGBOSOR4 prediction in Fig. 118.