

The unstiffened shell was optimized by GENOPT with Mode 1,2,3,and 4 axisymmetric imperfections. STAGS linear buckling, mode 1, pcr= 1.6484 x 460 psi

Output

Description:

 Θ y -13.14

 BIGBOSOR4 gets 1.634 x 460 psi
 Θ z 35.63

Mode 1 axisymmetric linear buckling of perfect shell from STAGS

Fig. 102 +Mode 1 axisymmetric linear buckling modal imperfection shape from STAGS for the 4-mode-optimized design of the **unstiffened**, **imperfect** equivalent ellipsoidal shell listed in Table 65. 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 corresponds to eigenvalue no. 1. Compare with the **+mode 1** imperfection shape predicted by BIGBOSOR4 (Fig. 98) and with the **+mode 1** imperfection shape displayed in Fig. 76 predicted by STAGS for the "2-mode" optimized unstiffened shell listed in Table 33 under the heading "unstiffened, imperfect".