



Fig. 105 +Mode 2 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, $W_{imp} = 0.2$ inch. This STAGS buckling mode corresponds to eigenvalue no. 6. This axisymmetric **+mode 2** buckling mode, also shown in Fig. 111, is significantly different from that predicted by BIGBOSOR4 as displayed in Figs. 99 and 111. Compare with the +mode 2 imperfection shape displayed in Fig. 78 predicted by STAGS for the “2-mode” optimized unstiffened shell listed in Table 33 under the heading “unstiffened, imperfect”.