



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,  $W_{imp} = 0.2$  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”.