



Fig. 205 Linear buckling mode from STAGS that corresponds to the second eigenvalue for the **optimized unstiffened equivalent ellipsoidal shell with the thick apex with $t(\text{apex}) = 0.47183$ inch; the optimum design is listed in Table 89.** Compare this 180-degree "soccerball" model with the STAGS model displayed in Figs. 148 and 179. This shell was optimized with the amplitude of the axisymmetric buckling modes 1 and 2, **Wimp = 0.1** inch, half the amplitude, Wimp = 0.2 inch, that pertains to the results in Figs. 145 – 200 and Tables 78 – 88. **Shells of revolution with imperfections with this non-axisymmetric shape cannot be handled by BIGBOSOR4.** Therefore, GENOPT optimization occurs in the presence of only axisymmetric buckling modal imperfections.