

Fig. 191 Linear buckling mode from STAGS that corresponds to the third eigenvalue for the **optimized unstiffened equivalent ellipsoidal shell with the thick apex with t(apex)** = **0.4 inch; the optimum design is listed in Table 78.** This is the same buckling mode as that depicted in the previous figure. Compare this "crude" 180-degree "soccerball" model with the more refined "soccerball" model displayed in Fig. 179. This is the linear buckling modal imperfection shape (with amplitude, Wimp = 0.2 inch) that leads to the load-deflection curve identified as the fourth trace in Fig. 188 and the mode of collapse under uniform external pressure shown in Fig. 192.