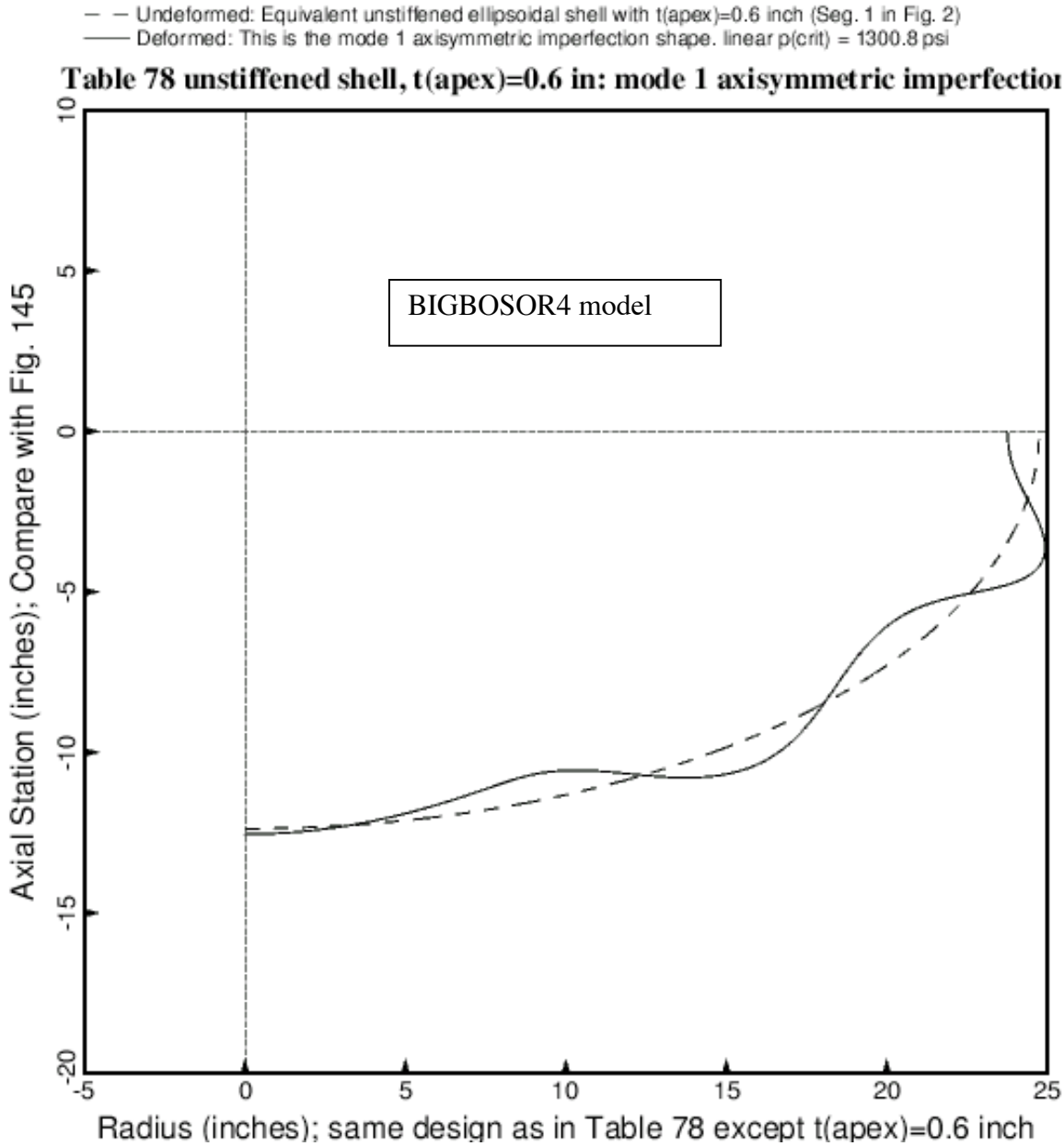

Fig. 226 Axisymmetric **mode 1** linear buckling mode from BIGBOSOR4 for the **optimized unstiffened equivalent ellipsoidal shell with the thick apex of uniform thickness, t(apex) = 0.6 inch; the optimum design is listed in Table 78 [except t(apex), which has been arbitrarily increased from 0.4 inch to 0.6 inch].** The shell with t(apex)=0.4 inch was optimized with plus and minus axisymmetric buckling modal imperfection shapes, mode 1 and mode 2 with amplitude, **Wimp=0.2** inch (Table 78). With t(apex) = 0.4 inch (Fig. 145) the shell apex is not thick enough to prevent the maximum linear buckling modal displacement from occurring at the pole of the shell. However, with t(apex) increased from 0.4 inch to 0.6 inch the mode 1 axisymmetric linear buckling mode shown here has maximum amplitude in the region away from the apex with very little normal displacement at and in the immediate neighborhood of the apex.