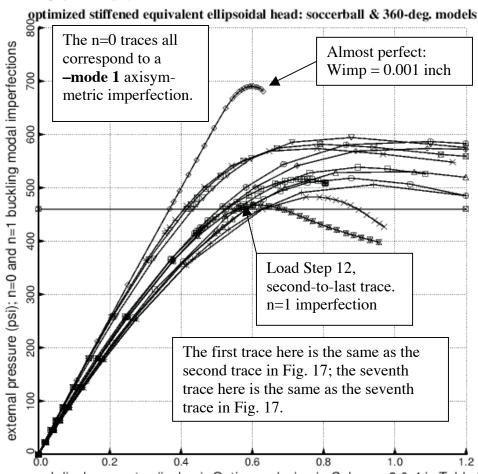
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□ STAGS: 360-degree model; elastic; n=0 buckling modal imperf; Wimp=-0.2 inch; node 1; 410 element STAGS: 360-degree model; elastic; n=0 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; elastic; n=0 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; elastic; n=0 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; plastic; n=0 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; plastic; n=0 buckling modal imperf; Wimp=-0.001 inch; node 1; 480 element STAGS: 360-degree model; elastic; n=1 buckling modal imperf; Wimp=+0.2 inch; node 1; 410 element STAGS: 360-degree model; elastic; n=1 buckling modal imperf; Wimp=+0.2 inch; node 1; 480 element STAGS: soccerball model; elastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; elastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; elastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; elastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; elastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; elastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; plastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; plastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; plastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; plastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; plastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; plastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAGS: soccerball model; plastic; n=1 buckling modal imperf; Wimp=-0.2 inch; node 1; 480 element STAG
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normal displacement w (inches); Optimum design in Columns 3 & 4 in Table 33
Fig. 254 Axisymmetric and non-axisymmetric collapse of optimized almost perfect (trace 6) and imperfect isogrid-stiffened equivalent ellipsoidal shells. The optimum design, listed in columns 2 and 3 of Table 33, was obtained with linear axisymmetric (n=0) buckling modal imperfections with amplitude, Wimp = 0.2 inch. For the 180-degree "soccerball" model the linear bifurcation buckling modal imperfection shape corresponding to axisymmetric (n=0) collapse (the first 6 traces) is shown in Fig. 257. The linear bifurcation buckling modal imperfection shapes corresponding to non-axisymmetric (n=1) collapse (the last 7 traces) are displayed in Figs. 258 and 262. For the 360-degree models the linear bifurcation buckling modal imperfection shapes are shown for n=0 in Fig. 6 and for n=1 in Figs. 7 and 10. Compare this figure with Fig. 17.