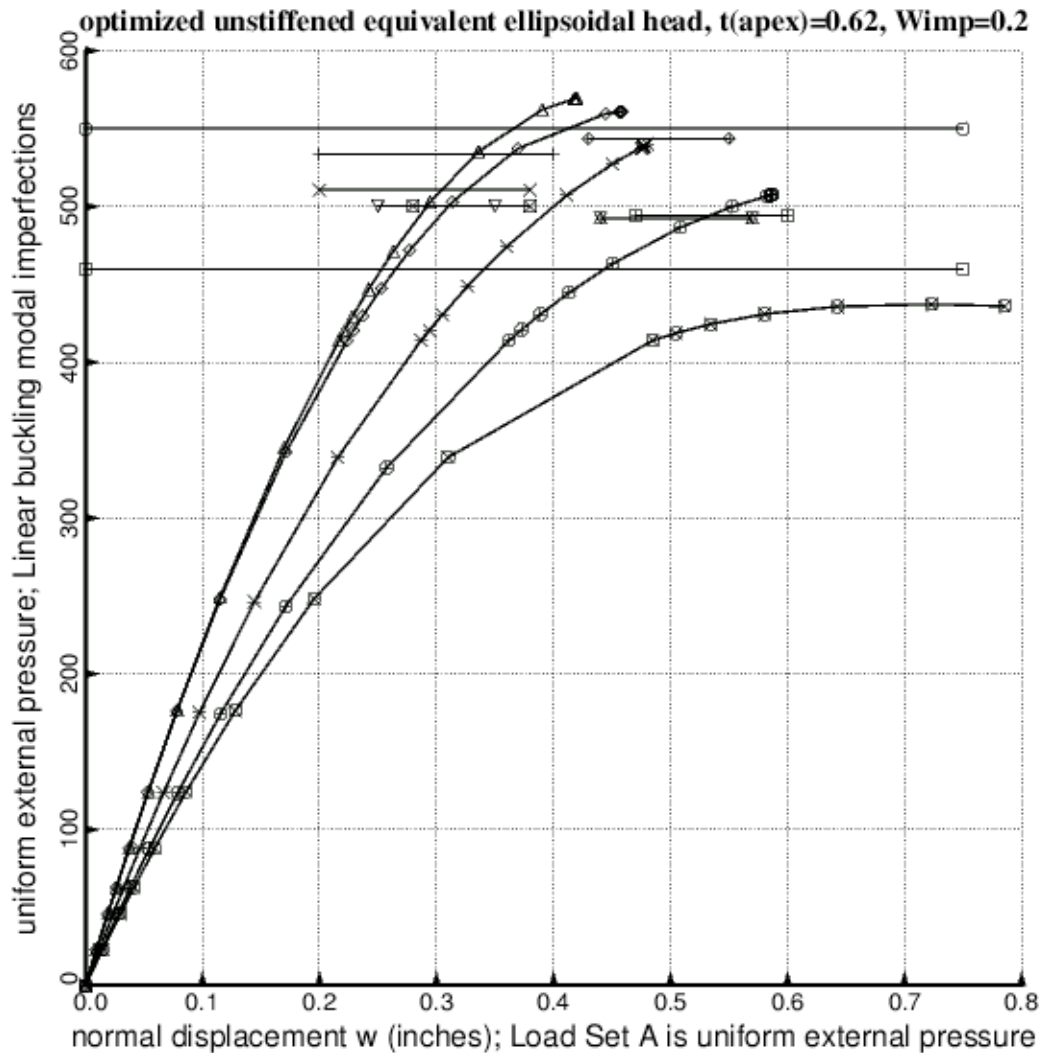


- design pressure (psi)
- design pressure (psi) for axisymmetric collapse in GENOPT
- △ STAGS elastic-plastic results for +mode 1 n=0 buckling modal imperf.Wimp=0.2; node 1
- + BIGBOSOR4: shell has +mode 1 imperf, Wimp=0.2; nonlinear bifurcation buckling,n=4 circ. waves
- × STAGS: shell has +mode 1 imperf, Wimp=0.2; nonlinear bifurcation buckling,n=4 circ. waves
- ◇ STAGS elastic-plastic results for +mode 2 n=0 buckling modal imperf.Wimp=0.2; node 1
- ▽ BIGBOSOR4: shell has +mode 2 imperf, Wimp=0.2; nonlinear bifurcation buckling,n=3 circ. waves
- ⊠ STAGS: shell has +mode 2 imperf, Wimp=0.2; nonlinear bifurcation buckling,n=3 circ. waves
- × STAGS elastic-plastic results for -mode 1 n=0 buckling modal imperf.Wimp=0.2; node 1
- ⊕ BIGBOSOR4: shell has -mode 1 imperf, Wimp=0.2; nonlinear bifurcation buckling,n=6 circ. waves
- ⊗ STAGS elastic-plastic results for -mode 2 n=0 buckling modal imperf.Wimp=0.2; node 1
- ⊠ BIGBOSOR4: shell has -mode 2 imperf, Wimp=0.2; nonlinear bifurcation buckling,n=5 circ. waves
- ⊗ STAGS: shell has -mode 2 imperf, Wimp=0.2; nonlinear bifurcation buckling,n=5 circ. waves
- ⊠ STAGS elastic-plastic results for   n=1 buckling modal imperf.Wimp=0.2; node 872



**Fig. 237 Optimized unstiffened equivalent ellipsoidal shell with thick apex,  $t(\text{apex})=0.61996$  inch; Wimp=0.2 inch; the optimum design is listed in Table 93.**

STAGS elastic-plastic load-displacement curves and nonlinear bifurcation buckling loads and BIGBOSOR4 elastic nonlinear bifurcation buckling loads for various buckling modal imperfection shapes. Amplitude of each buckling modal imperfection, Wimp = 0.2 inch. Compare with Fig. 161, for which the optimum design is listed in Table 78, and compare with Figs. 209 and 211, for which Wimp=0.1 and optimum design is listed in Table 89.