- X STAGS "crude" soccerball: elastic-plastic: n=1 mode imperf: Wimp=0.100 inch; node 1392
- STAGS elastic-plastic; n=0 +mode 1 buckling modal imperfection; Wimp=0.10 inch +0.001 n=3 "trigger"
- STAGS elastic-plastic; n=0 +mode 2 buckling modal imperfection; Wimp=0.10 inch +0.001 n=5 "trigger"
- STAGS elastic-plastic, n=0 -mode 1 buckling modal imperfection; Wimp=0.10 inch +0.001 n=6 "trigger"

  Inch +0.001 n=6 "trigger"

  STAGS elastic-plastic, n=0 -mode 1 buckling modal imperfection; Wimp=0.10 inch +0.001 n=6 "trigger"

  Inc
- STAGS elastic-plastic; n=0 -mode 2 buckling modal imperfection; Wimp=0.10 inch +0.001 n=7 "trigger"
  - design pressure (psi) plasticity begins at this load for +mode 1,+mode 2,-mode 2 axisym.(n=0) buckling modal imperfs
- plasticity begins at this load for -mode 1 axisymmetric (n=0) buckling modal imperfection
- plasticity begins at this load for n = 1 non-axisymmetric buckling modal imperfection

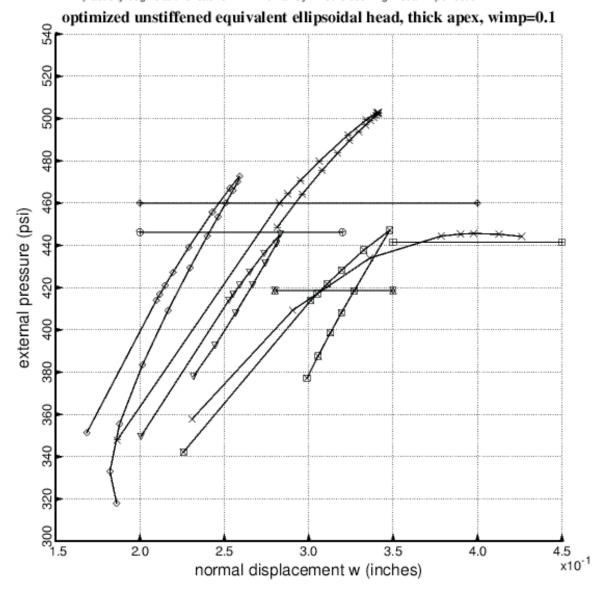


Fig. 211 Optimized unstiffened equivalent ellipsoidal shell with thick apex, t(apex)=0.47183 inch; Wimp=0.1 inch, half the amplitude, Wimp = 0.2 inch, that pertains to the results in Figs. 145 - 200 and Tables 78 - 88; the optimum design is listed in Table 89. Load-displacement curves for various buckling modal imperfection shapes. This figure shows some of the same load-deflection curves as those displayed in Fig. 209, "zoomed" for better visibility. All failure pressures are close to or exceed the design pressure, PA = 1.0 (460 psi external pressure).