



Optimized isogrid-stiffened equivalent ellipsoidal shell
 PA= 1.0: applied external pressure = PA x 460 = 460 psi
 step 9 fabrication system, seff, layer 2, outer fiber
 nonlinear effective stress (psi) in shell skin - layer 2 outer fiber
 eqellipse.stiffened.opm4 with a -mode 2 imperfection with Wimp = -0.2inch

8.110E+00

Fig.35 STAGS prediction of **outer fiber effective stress seff (psi) in the skin** of the optimized **imperfect isogrid-stiffened** equivalent ellipsoidal shell with a **-mode 2** imperfection. Compare with the GENOPT (BIGBOSOR4) Table 45 prediction at Seg. 1: SKNMAX=103830 psi and at Segs. 11 and 12: SKNMAX=105050 psi.