



Fig. 15 BIGBOSOR4 prediction of axisymmetric deformation of the optimized **imperfect isogrid-stiffened** equivalent ellipsoidal shell with an axisymmetric -mode 2 linear bifurcation buckling modal imperfection shape with amplitude,  $W_{imp} = -0.2$  inches. The applied external pressure is the design pressure,  $p = 460$  psi. The shape of the buckling modal imperfection is the **negative** of that displayed in Fig. 5. The maximum stresses and local buckling load factors of skin and meridionally oriented isogrid members computed by BIGBOSOR4 and associated with this deformation pattern are listed in Table 45.