



Fig. 127 STAGS prediction of **inner fiber effective stress seff (psi) in the skin** of the optimized “**perfect**” **isogrid-stiffened** equivalent ellipsoidal shell subjected to the external design pressure,  $p = 460$  psi. (The part of Table 33 with the heading, “isogrid-stiffened, perfect”, lists the optimum design). Compare with the GENOPT (BIGBOSOR4) prediction of maximum effective stress,  $SKNMAX = 121610$  psi, which occurs at the same meridional location, as listed in Table 71. NOTE: The BIGBOSOR4 prediction listed in Table 71 only gives the maximum value of the extreme fiber effective stress in each shell segment, not both the maximum **inner** fiber effective stress and maximum **outer** fiber effective stress.