



Fig. 117 First **axisymmetric** linear bifurcation buckling mode shape of the optimized **isogrid-stiffened “perfect”** shell as computed by BIGBOSOR4. The optimum design is listed in Table 33 under the heading, “isogrid-stiffened, perfect”. The corresponding linear bifurcation buckling pressure according to BIGBOSOR4 is $p(\text{crit}) = 603.21 \text{ psi}$. The program STAGS obtains a linear bifurcation buckling pressure of 601.63 psi for this shell. (See Fig. 120). This axisymmetric mode predicted by BIGBOSOR4 corresponds to the third eigenvalue in the STAGS model, as indicated in Fig. 120. Compare with Fig. 120.