



Fig. 119 $n = 1$ circumferential wave non-axisymmetric linear buckling mode shape from STAGS for the optimized design of the “**perfect**” **isogrid-stiffened** equivalent ellipsoidal shell. The optimum design is listed in Table 33 under the heading, “isogrid-stiffened, perfect”. This STAGS buckling mode corresponds to eigenvalue no. 1. This is the only case in which the fundamental buckling load of the perfect shell is non-axisymmetric. Eigenvalue no. 2 is identical to eigenvalue no. 1 and its eigenvector (mode shape) is the same as that displayed here except that it is rotated circumferentially.