Fig. 4 PANDA2 curved model: Maximum normal displacement w vs Nx

Fig.4 PANDA2 prediction. This plot is generated from a PANDA2 test simulation run (ITYPE=3 in the *.OPT file) of the optimized curved panel after correction of the bug in SUBROUTINE MODE. (See Item no. 804 in the file, …panda2/doc/panda2/news for a description of how the bug was fixed.) The quantity, WMDTOT, is the uniform radial Poisson ratio expansion of the cylindrical shell induced by the uniform axial compression. PANDA2 predicts the same normal deflection for inward and outward buckles because the local post-buckling analysis is based on a model in which the panel skin is flat and the axial variation of normal displacement is sinusoidal [3,22]. See Fig. 62 for a plot of these data in a somewhat different form. See Fig. 34 for a comparison with predictions from STAGS. (This figure was generated for the original optimum design obtained before the bug in SUBROUTINE MODE was discovered).