



Fig. 8 PANDA2 prediction. Extreme fiber axial strain versus axial resultant  $N_x$  for the optimized curved panel. Segment 2, Nodal Point 6 is the nodal point in the panel skin at the web root of the stringer. Segment 3, Nodal Point 1 is the nodal point in the stringer at the web root of the stringer. End shortening of a shell segment between adjacent rings versus  $N_x$  can be obtained from this curve by multiplication of the axial strain at each value of  $N_x$  by the ring spacing,  $B(\text{rings}) = 9.7793$  inches. Compare with STAGS predictions for a flat panel presented in Fig. 59.