



5-bay flat panel: Input for the PANDA2 processor, STAGSUNIT, is listed in Table 19
 PA= 1.00000E+01 PB= 0.00000E+00 PX= 0.00000E+00
 step 459 displacement deformed geometry

Θ x 0.00
 Θ y 90.00
 Θ z 0.00

Fig.53 STAGS model: nonlinear deformation, end view; case=allflat



Fig. 53 STAGS prediction of the deformed state of the flat panel at the design load, $PA = 10.0$ ($N_x = -1000$ lb/in). This is an end view of the same deformed state displayed in the previous figure. Note that the inward and outward buckles have the same amplitude and that the amplitude of the buckles in the central stringer bay are slightly smaller than that in the other four stringer bays. The central stringer bay has seven axial half waves, whereas the other four stringer bays have only five axial half waves. Compare this figure with Fig. 32, which pertains to the curved panel. No overall axial bending nor in-plane panel skin warping at the four edges are permitted in this STAGS model.