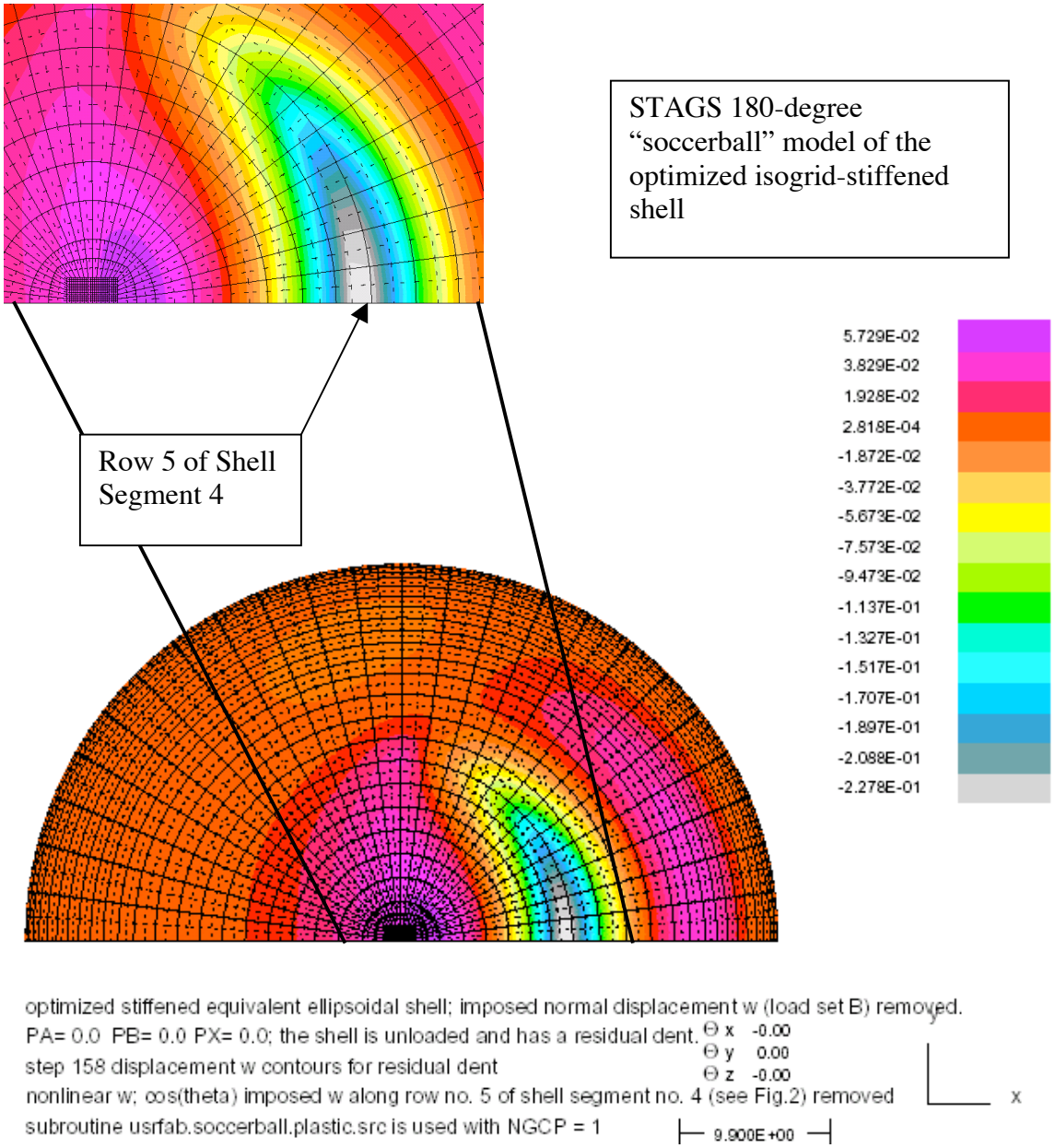

Fig. 271 The **optimized isogrid-stiffened equivalent ellipsoidal shell; Wimp=0.2 inch; the optimum design is listed in columns 2 and 3 of Table 33.** State of the shell at load set B (PB) step no. 158 in Run 4 (**residual dent**). (See Fig. 270). Load set B consists of a number of concentrated inward directed normal **displacements** applied along row 5 of shell segment 4 (Figs. 2, 169, 262) distributed in the circumferential direction as cos(theta) from theta = 0 to 90 degrees. This "cos(theta)" displacement distribution is used because it generates a residual dent that **locally** resembles the negative of the buckling modal deformation in Fig. 262, that is, the negative of the second linear buckling modal imperfection with n = 1 circumferential wave. Compare with Fig. 269. Here the residual dent is somewhat deeper than the depth, Wimp=0.2 inch, of each of the two axisymmetric buckling modal imperfections, mode 1 and mode 2, for which the optimum design was obtained.