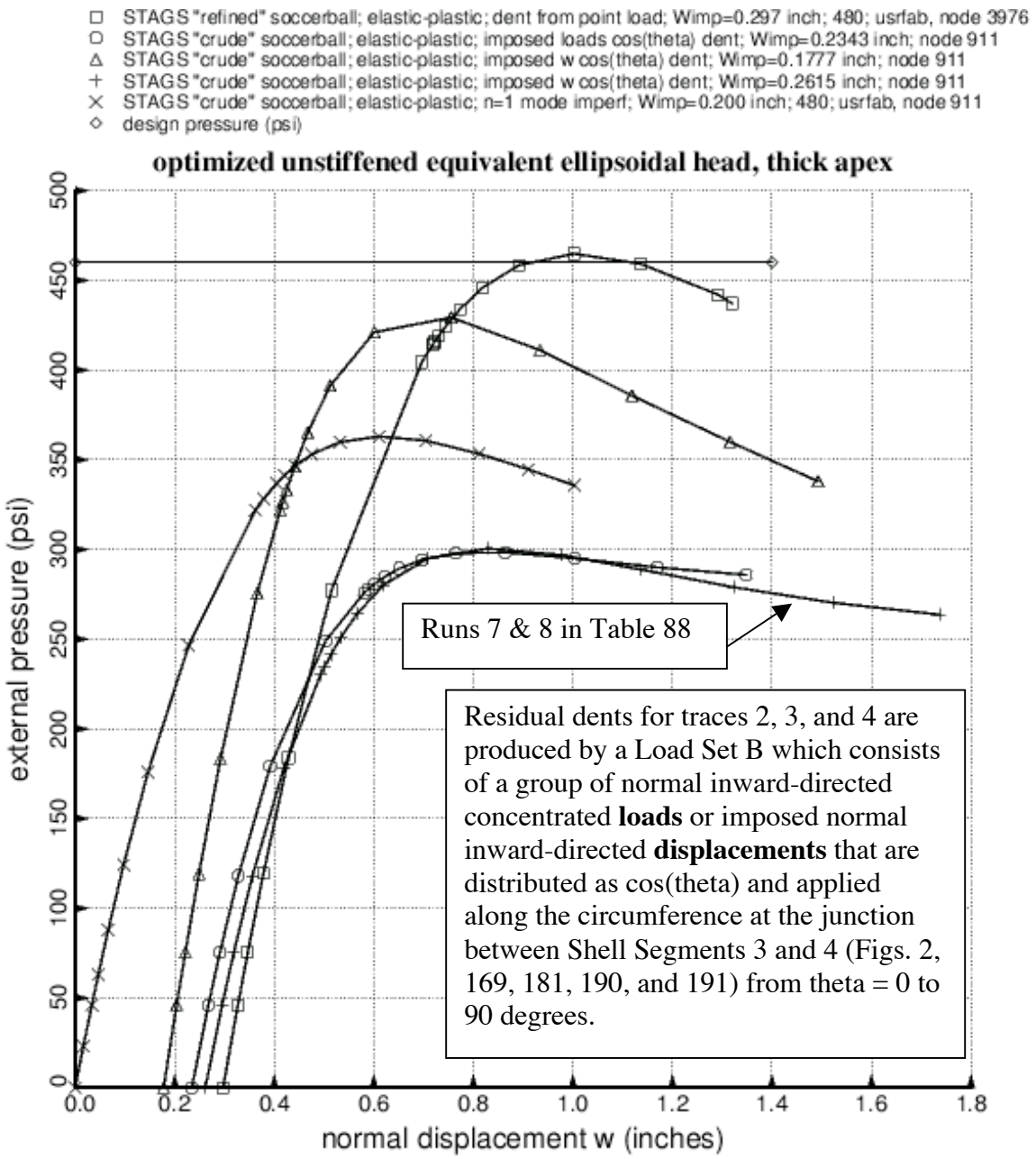

Fig. 200 Elastic-plastic analysis of the **optimized unstiffened equivalent ellipsoidal shell with the thick apex with t(apex) = 0.4 inch; Wimp=0.2 inch; the optimum design is listed in Table 78.** Collapse of the imperfect shell with four different kinds of imperfections. trace 1= imperfection is a residual dent caused by a single concentrated load (Fig. 171); trace 2 = imperfection is a residual dent caused by a "cos(theta)" distribution of concentrated imposed normal **loads** along a circumferential line from theta = 0 to 90 degrees (Fig. 186); traces 3 and 4 = imperfections are residual dents caused by a "cos(theta)" distribution of concentrated imposed normal **displacements** along a circumferential line from theta = 0 to 90 degrees (Fig. 197), and trace 5 = a linear buckling modal imperfection with n=1 circumferential wave (Figs. 190 and 191). Notice the similarity between traces 2 and 4. Compare with Fig. 188.