Table a46 STAGS input file, soccerball.bin, corresponding to the input file, \*.inp, listed in Table a40, that is, loading is by an imposed normal displacement that varies as cos(theta) from 0 to 90 degrees and that is imposed along a circumferential line at the junction between shell segments 3 and 4 in Figs. 2, a1-a3. In this STAGS run the imposed normal displacement continues to increase above 1.3 inches, the maximum value in Load Set B listed in Table a41. We want to produce a residual dent with a depth of close to 0.2 inch, and we need to increase the maximum applied normal displacement to a greater value than 1.3 in order to do this. The results from this run are shown as Run 5 in Table 88 and in Fig. 193.

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optimized imperfect shell, nonlinear theory (INDIC=3)
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- 3, \$ INDIC=1 is bifur.buckling; INDIC=3 is nonlinear BEGIN B-1
- 1, \$ IPOST=1 means save displacements every IPOSTth step
- 0, \$ ILIST = 0 means normal batch-oriented output
- 0, \$ ICOR = 0 means projection in; 1 means not in.
- 1, \$ IMPTHE=index for imperfection theory.
- 0, \$ IOPTIM=0 means bandwith optimization will be performed
- 0, \$ IFLU =0 means no fluid interaction.
- -1 \$ ISOLVR= 0 means original solver; -1 new solver.END B-1 rec
- 0.0, \$ STLD(1) = starting load factor, System A. BEGIN C-1 rec.
- 0.0, \$ STEP(1) = load factor increment, System A
- 0.0, \$ FACM(1) = maximum load factor, System A
- 1.3, \$ STLD(2) = starting load factor, System B
- 1.0, \$ STEP(2) = load factor increment, System B
- 2.0, \$ FACM(2) = maximum load factor, System B
- 0 \$ ITEMP = 0 means no thermal loads. END C-1 rec.
- 37, \$ ISTART=restart from ISTARTth load step. BEGIN D-1 rec.
- 0,\$ NSEC= number of CPU seconds before run termination
- 10,\$ NCUT = number of times step size may be cut
- -20, \$ NEWT = number of refactorings allowed
- -1,\$ NSTRAT=-1 means path length used as independent parameter 0.00010,\$ DELX=convergence tolerance
- 0. \$ WUND = 0 means initial relaxation factor =1.END D-1 rec.
- 0, 0, 0 \$ NPATH=0: Riks, NEIGS=no.of eigs, NSOL=1=discontin.ET-1