Table 19 Input data for the PANDA2 processor STAGSUNIT (allenflat.STG) for generating the STAGS input files, allenflat.bin and allenflat.inp . The same favorable circumferential variation in finite element mesh density is used as in Table 12: Finite elements are especially concentrated in the panel skin near the intersection of one of the central stringers in the 5-stringer-bay STAGS model. See Fig. 46.

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      n         $ Do you want a tutorial session and tutorial output?
         1      $ Choose type of STAGS analysis (1,3,4,5,6),INDIC
         0      $ Restart from ISTARTth load step (0=1st nonlinear soln), ISTART
   1.000000     $ Local buckling load factor from PANDA2, EIGLOC
      y         $ Are the dimensions in this case in inches?
         0      $ Nonlinear (0) or linear (1) kinematic relations?, ILIN
         0      $ Type 1 for closed (360-deg) cyl. shell, 0 otherwise, ITOTAL
   9.779300     $ X-direction length of the STAGS model of the panel: XSTAGS
   12.35250     $ Panel length in the plane of the screen, L2
      y         $ Is the nodal point spacing uniform along the stringer axis?
        61      $ Number of nodes in the X-direction: NODEX
  -100.0000     $ Resultant (e.g. lb/in) normal to the plane of screen, Nx
         0      $ Resultant (e.g. lb/in) in the plane of the screen,    Ny
         0      $ In-plane shear in load set A,                  Nxy
         0      $ Normal pressure in STAGS model in Load Set A, p
         0      $ Resultant (e.g. lb/in) normal to the plane of screen, Nx0
         0      $ Resultant (e.g. lb/in) in the plane of the screen,    Ny0
         0      $ Normal pressure in STAGS model in Load Set B, p0
   1.000000     $ Starting load factor for Load System A, STLD(1)
         0      $ Load factor increment for Load System A, STEP(1)
   1.000000     $ Maximum load factor for Load System A, FACM(1)
         0      $ Starting load factor for Load System B, STLD(2)
         0      $ Load factor increment for Load System B, STEP(2)
         0      $ Maximum load factor for Load System B, FACM(2)
         1      $ How many eigenvalues do you want? NEIGS
       480      $ Choose element type: 480 or 410 or 940
      n         $ Have you obtained buckling modes from STAGS for this case?
         6      $ Number of stringers in STAGS model of the flat panel
         2      $ Number of rings in the STAGS model of the panel
      y         $ Are there rings at the ends of the panel?
         0      $ Number of finite elements between adjacent stringers
        50      $ Number of finite elements over circumference, NELCIR
        30      $ Number of finite elements between adjacent rings
         3      $ Stringer model: 1 or 2 or 3 or 4 or 5(Type H(elp))
         3      $ Ring model: 1 or 2 or 3 or 4 or 5 (Type H(elp))
         0      $ Reference surface of cyl: 1=outer, 0=middle, -1=inner
      n         $ Do you want to use fasteners (they are like rigid links)?
      n         $ Are the stringers to be "smeared out"?
      n         $ Is the nodal point spacing uniform around the circumference?
   4.446900     $ Circ. callout Y(i) where the nodal point spacing changes, Y( 1)
        19      $ Number of nodes n(i) from Y(i-1) to Y(i) (n=odd!), n( 1)
      y         $ Are there any more interior axial stations y where dy changes?
   4.693950     $ Circ. callout Y(i) where the nodal point spacing changes, Y( 2)
         3      $ Number of nodes n(i) from Y(i-1) to Y(i) (n=odd!), n( 2)
      y         $ Are there any more interior axial stations y where dy changes?
   5.188050     $ Circ. callout Y(i) where the nodal point spacing changes, Y( 3)
        17      $ Number of nodes n(i) from Y(i-1) to Y(i) (n=odd!), n( 3)
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     y          $ Are there any more interior axial stations y where dy changes?
   5.435100     $ Circ. callout Y(i) where the nodal point spacing changes, Y( 4)
        3       $ Number of nodes n(i) from Y(i-1) to Y(i) (n=odd!), n( 4)
     y          $ Are there any more interior axial stations y where dy changes?
   6.917400     $ Circ. callout Y(i) where the nodal point spacing changes, Y( 5)
        7       $ Number of nodes n(i) from Y(i-1) to Y(i) (n=odd!), n( 5)
     y          $ Are there any more interior axial stations y where dy changes?
   7.905600     $ Circ. callout Y(i) where the nodal point spacing changes, Y( 6)
        9       $ Number of nodes n(i) from Y(i-1) to Y(i) (n=odd!), n( 6)
     n          $ Are there any more interior axial stations y where dy changes?
       19       $ Number of nodes n(i) from last Y to y = YSTAGS, n( 7)
     n          $ Are the rings to be "smeared out"?
        5       $ Number of nodes over height of stiffener webs, NODWEB
        5       $ Number of nodes over width of stringer flange, NDFLGS
        5       $ Number of nodes over width of ring flange, NDFLGR
     n          $ Do you want stringer(s) with a high nodal point density?
     n          $ Do you want ring(s) with a high nodal point density?
     n          $ Is there plasticity in this STAGS model?
     n          $ Do you want to use the "least-squares" model for torque?
     n          $ Is stiffener sidesway permitted at the panel edges?
     n          $ Do you want symmetry conditions along the straight edges?
        1       $ Edges normal to screen (0) in-plane deformable; (1) rigid
        1       $ Edges parallel to screen (0) in-plane deformable; (1) rigid
        1       $ Stringer web axial displacement index, IBCX0XL=0 or 1
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