Table 8 Input data for the PANDA2 processor STAGSUNIT (allenrngs.STG) for generating the STAGS input files, allenrngs3.bin and allenrngs3.inp. This file, called allenrngs.STG when STAGSUNIT is executed, is stored as allenrngs.superopt1.5bay.yvariablespacing.480.stg.table8 .

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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: 410 or 411 or 480 or 940
      n          $ Have you obtained buckling modes from STAGS for this case?
       132       $ Number of stringers in STAGS model of 360-deg. cylinder
         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?
  5.095772       $ 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?
  6.228166       $ Circ. callout Y(i) where the nodal point spacing changes, Y( 2)
         9       $ 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?
  7.926756       $ Circ. callout Y(i) where the nodal point spacing changes, Y( 3)
         7       $ Number of nodes n(i) from Y(i-1) to Y(i) (n=odd!), n( 3)
      y          $ Are there any more interior axial stations y where dy changes?
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  9.059150     $ Circ. callout Y(i) where the nodal point spacing changes, Y( 4)
       9       $ Number of nodes n(i) from Y(i-1) to Y(i) (n=odd!), n( 4)
     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( 5)
     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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