Table 23 Input data for the PANDA2 processor STAGSUNIT (allenflat3.STG) for generating the STAGS input files, allenflat3.bin and allenflat3.inp . This file pertains to the 10-stringer-bay flat panel.

```
==========================================================================
     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
 24.705         $ 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?
      11        $ 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
     100        $ 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)
     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?
      69      $ 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
================================================================================
```