

Table 15 Portion of the **equivellipse.DAT** file relating to some Role 4, 5, and 6 variables established and defined by the GENOPT user during the interactive GENTEXT session. When the GENOPT user has completed the GENTEXT interactive session the complete equivellipse.DAT file becomes a file that is called **equivellipse.INP**. See Table a1 of the appendix for a list of equivellipse.INP. The GENOPT user's **responses** to the prompts are in **bold face** in this table. The variable names, the one-line definitions of the variables, and the "help" paragraphs, created by the GENOPT user during the GENTEXT interactive session, **will be seen by the "end" user**. If the GENOPT user has done his or her job well, the program system created by GENOPT (BEGIN, DECIDE, MAINSETUP, OPTIMIZE, CHOOSEPLOT, etc.), that is, the program system for the generic case, "**equivellipse**", to be used later by the "end" user for specific cases (such as a specific case called "egellipse"), will be user-friendly. Note that the GENOPT user (the writer) did not create any "help" paragraphs here. It would have been better if he had. See Section 3.7 for suggestions for typical "help" paragraphs that the GENOPT user should probably have included.

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y          $ Any more variables for role type 4 ?                      $160
1          $ Type of prompt: 0="help" paragraph, 1=one-line prompt
STFBK1     $ Name of a variable in the users program (defined below)
4          $ Role of the variable in the users program
n          $ Do you want to reset the number of columns in STFBK1 ?
buckling load factor, isogrid member, mode 1 $ one-line definition, STFBK1
n          $ Do you want to include a "help" paragraph?
1          $ Type of prompt: 0="help" paragraph, 1=one-line prompt
STFBK1A     $ Name of a variable in the users program (defined below)
5          $ Role of the variable in the users program
allowable for isogrid stiffener buckling (Use 1.) $ definition, STFBK1A
n          $ Do you want to include a "help" paragraph?
1          $ Type of prompt: 0="help" paragraph, 1=one-line prompt
STFBK1F     $ Name of a variable in the users program (defined below)
6          $ Role of the variable in the users program
factor of safety for isogrid stiffener buckling $ definition, STFBK1F
n          $ Do you want to include a "help" paragraph?
2          $ Indicator (1 or 2 or 3) for type of constraint
y          $ Any more variables for role type 4 ?                      $175
1          $ Type of prompt: 0="help" paragraph, 1=one-line prompt
SKNST1     $ Name of a variable in the users program (defined below)
4          $ Role of the variable in the users program
n          $ Do you want to reset the number of columns in SKNST1 ?
maximum stress in the shell skin, mode 1    $ one-line definition, SKNST1
n          $ Do you want to include a "help" paragraph?
1          $ Type of prompt: 0="help" paragraph, 1=one-line prompt
SKNST1A     $ Name of a variable in the users program (defined below)
5          $ Role of the variable in the users program
allowable stress for the shell skin          $ one-line definition, SKNST1A
n          $ Do you want to include a "help" paragraph?

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1 \$ Type of prompt: 0="help" paragraph, 1=one-line prompt
SKNST1F \$ Name of a variable in the users program (defined below)
6 \$ Role of the variable in the users program
factor of safety for skin stress \$ one-line definition, SKNST1F
n \$ Do you want to include a "help" paragraph?
3 \$ Indicator (1 or 2 or 3) for type of constraint
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NOTE: See Table 16 for the meaning of
"Indicator (1 or 2 or 3) for type of constraint".