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; MIDAS/Civil Text(MCT) File.
; Date : 2017/6/15
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*VERSION
  8.5.5

*UNIT      ; Unit System
; FORCE, LENGTH, HEAT, TEMPER
  TONF , M, J, C

*STRUCTYPE  ; Structure Type
; iSTYP, iMASS, iSMAS, bMASSOFFSET, bSELFWEIGHT, GRAV, TEMPER,
bALIGNBEAM, bALIGNSLAB, bROTRIGID
  0, 1, 1, NO, YES, 9.806, 0, NO, NO, NO

*REBAR-MATL-CODE  ; Rebar Material Code
; CONC_CODE, CONC_MDB, SRC_CODE, SRC_MDB
  KSCE-LSD15(RC), SD300, KSCE-LSD15(RC), SD300

*NODE      ; Nodes
; iNO, X, Y, Z
  1, 0, 0, 0
  2, 1.5, 0.032, 0.028
  3, 1.5, 0.032, -0.743
  4, 4.443, 0.088, -0.198
  5, 8.473, 0.156, 0.449
  6, 13.511, 0.222, 1.078
  7, 18.549, 0.269, 1.47
  8, 23.588, 0.297, 1.679
  9, 28.626, 0.305, 1.737
  10, 33.665, 0.295, 1.607
  11, 38.703, 0.264, 1.375
  12, 43.741, 0.214, 0.888
  13, 47.772, 0.161, 0.574
  14, 47.773, 0.161, 0.192
  15, 47.773, 0.161, 0.963
  16, 49.273, 0.137, 0.996
  17, 3.098, -8.038, -0.266
  18, 4.59, -8.01, -0.238
  19, 4.598, -8.01, -0.238
  20, 4.598, -8.01, -0.97
  21, 8.596, -7.943, -0.125
  22, 13.602, -7.877, 0.546
  23, 18.61, -7.83, 0.977

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24, 23.617, -7.803, 1.302  
 25, 28.624, -7.795, 1.449  
 26, 33.631, -7.805, 1.447  
 27, 38.639, -7.836, 1.269  
 28, 43.646, -7.885, 0.865  
 29, 47.651, -7.938, 0.388  
 30, 50.567, -7.985, -0.025  
 31, 50.567, -7.985, 0.707  
 32, 52.067, -8.012, 0.74  
 33, 1.549, -4.019, -0.133  
 34, 4.517, -3.961, -0.218  
 35, 8.534, -3.894, 0.162  
 36, 13.557, -3.828, 0.812  
 37, 18.579, -3.781, 1.224  
 38, 23.602, -3.753, 1.491  
 39, 28.625, -3.745, 1.593  
 40, 33.648, -3.755, 1.527  
 41, 38.671, -3.786, 1.322  
 42, 43.693, -3.835, 0.876  
 43, 47.711, -3.889, 0.481  
 44, 50.67, -3.937, 0.868  
 45, 0, 0, -0.963  
 46, 49.273, 0.137, 0.033  
 47, 3.098, -8.038, -1.226  
 48, 52.067, -8.012, -0.219  
 49, 24.9709066159549, 0.299195961279801, 1.69492071927856  
 50, 24.9994025871508, -7.8007912481132, 1.34258581591995  
 51, 24.9847131899085, -3.75079778906644, 1.51907818940288  
 52, 26.2708188363029, 0.301260133126324, 1.70988596516585  
 53, 26.2988410277119, -7.79871505328107, 1.38073589596039  
 54, 26.2844435925701, -3.74872774263576, 1.54547128139402  
 55, 21.6972446418964, 0.286493718986525, 1.60057811672085  
 56, 21.7543374890507, -7.8130443155174, 1.18109620210535  
 57, 21.7255090789578, -3.76346023209022, 1.39125421542539

\*ELEMENT ; Elements

; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, iOPT(EXVAL2) ; Frame  
Element

; iEL, TYPE, iMAT, iPRO, iN1, iN2, ANGLE, iSUB, EXVAL, EXVAL2, bLMT ;  
Comp/Tens Truss

; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iSUB, iWID , LCAXIS ; Planar  
Element

; iEL, TYPE, iMAT, iPRO, iN1, iN2, iN3, iN4, iN5, iN6, iN7, iN8 ; Solid Element

|          |   |     |     |     |     |    |   |
|----------|---|-----|-----|-----|-----|----|---|
| 1, BEAM  | , | 1,  | 29, | 1,  | 2,  | 0, | 0 |
| 2, BEAM  | , | 3,  | 33, | 3,  | 4,  | 0, | 0 |
| 3, BEAM  | , | 4,  | 34, | 4,  | 5,  | 0, | 0 |
| 4, BEAM  | , | 5,  | 35, | 5,  | 6,  | 0, | 0 |
| 5, BEAM  | , | 6,  | 36, | 6,  | 7,  | 0, | 0 |
| 6, BEAM  | , | 7,  | 37, | 7,  | 55, | 0, | 0 |
| 7, BEAM  | , | 8,  | 38, | 8,  | 49, | 0, | 0 |
| 8, BEAM  | , | 9,  | 39, | 9,  | 10, | 0, | 0 |
| 9, BEAM  | , | 10, | 40, | 10, | 11, | 0, | 0 |
| 10, BEAM | , | 11, | 41, | 11, | 12, | 0, | 0 |
| 11, BEAM | , | 12, | 42, | 12, | 13, | 0, | 0 |
| 12, BEAM | , | 3,  | 3,  | 13, | 14, | 0, | 0 |
| 13, BEAM | , | 2,  | 30, | 15, | 16, | 0, | 0 |
| 14, BEAM | , | 13, | 13, | 17, | 18, | 0, | 0 |
| 15, BEAM | , | 13, | 43, | 18, | 19, | 0, | 0 |
| 16, BEAM | , | 15, | 47, | 20, | 21, | 0, | 0 |
| 17, BEAM | , | 16, | 48, | 21, | 22, | 0, | 0 |
| 18, BEAM | , | 17, | 49, | 22, | 23, | 0, | 0 |
| 19, BEAM | , | 18, | 50, | 23, | 56, | 0, | 0 |
| 20, BEAM | , | 19, | 51, | 24, | 50, | 0, | 0 |
| 21, BEAM | , | 20, | 52, | 25, | 26, | 0, | 0 |
| 22, BEAM | , | 21, | 53, | 26, | 27, | 0, | 0 |
| 23, BEAM | , | 22, | 54, | 27, | 28, | 0, | 0 |
| 24, BEAM | , | 23, | 55, | 28, | 29, | 0, | 0 |
| 25, BEAM | , | 24, | 56, | 29, | 30, | 0, | 0 |
| 26, BEAM | , | 14, | 44, | 31, | 32, | 0, | 0 |
| 27, BEAM | , | 25, | 25, | 1,  | 33, | 0, | 0 |
| 28, BEAM | , | 25, | 25, | 33, | 17, | 0, | 0 |
| 29, BEAM | , | 25, | 25, | 4,  | 34, | 0, | 0 |
| 30, BEAM | , | 25, | 25, | 34, | 18, | 0, | 0 |
| 31, BEAM | , | 26, | 26, | 5,  | 35, | 0, | 0 |
| 32, BEAM | , | 26, | 26, | 35, | 21, | 0, | 0 |
| 33, BEAM | , | 25, | 25, | 6,  | 36, | 0, | 0 |
| 34, BEAM | , | 25, | 25, | 36, | 22, | 0, | 0 |
| 35, BEAM | , | 25, | 25, | 7,  | 37, | 0, | 0 |
| 36, BEAM | , | 25, | 25, | 37, | 23, | 0, | 0 |
| 37, BEAM | , | 25, | 25, | 8,  | 38, | 0, | 0 |
| 38, BEAM | , | 25, | 25, | 38, | 24, | 0, | 0 |
| 39, BEAM | , | 25, | 25, | 9,  | 39, | 0, | 0 |
| 40, BEAM | , | 25, | 25, | 39, | 25, | 0, | 0 |

|          |   |     |     |     |     |    |   |
|----------|---|-----|-----|-----|-----|----|---|
| 41, BEAM | , | 25, | 25, | 10, | 40, | 0, | 0 |
| 42, BEAM | , | 25, | 25, | 40, | 26, | 0, | 0 |
| 43, BEAM | , | 25, | 25, | 11, | 41, | 0, | 0 |
| 44, BEAM | , | 25, | 25, | 41, | 27, | 0, | 0 |
| 45, BEAM | , | 26, | 26, | 12, | 42, | 0, | 0 |
| 46, BEAM | , | 26, | 26, | 42, | 28, | 0, | 0 |
| 47, BEAM | , | 25, | 25, | 13, | 43, | 0, | 0 |
| 48, BEAM | , | 25, | 25, | 43, | 29, | 0, | 0 |
| 49, BEAM | , | 25, | 25, | 16, | 44, | 0, | 0 |
| 50, BEAM | , | 25, | 25, | 44, | 32, | 0, | 0 |
| 51, BEAM | , | 27, | 27, | 33, | 34, | 0, | 0 |
| 52, BEAM | , | 27, | 27, | 34, | 35, | 0, | 0 |
| 53, BEAM | , | 27, | 27, | 35, | 36, | 0, | 0 |
| 54, BEAM | , | 27, | 27, | 36, | 37, | 0, | 0 |
| 55, BEAM | , | 27, | 27, | 37, | 57, | 0, | 0 |
| 56, BEAM | , | 27, | 27, | 38, | 51, | 0, | 0 |
| 57, BEAM | , | 27, | 27, | 39, | 40, | 0, | 0 |
| 58, BEAM | , | 27, | 27, | 40, | 41, | 0, | 0 |
| 59, BEAM | , | 27, | 27, | 41, | 42, | 0, | 0 |
| 60, BEAM | , | 27, | 27, | 42, | 43, | 0, | 0 |
| 61, BEAM | , | 27, | 27, | 43, | 44, | 0, | 0 |
| 62, BEAM | , | 28, | 28, | 1,  | 45, | 0, | 0 |
| 63, BEAM | , | 28, | 28, | 16, | 46, | 0, | 0 |
| 64, BEAM | , | 28, | 28, | 17, | 47, | 0, | 0 |
| 65, BEAM | , | 28, | 28, | 32, | 48, | 0, | 0 |
| 66, BEAM | , | 8,  | 38, | 49, | 52, | 0, | 0 |
| 67, BEAM | , | 19, | 51, | 50, | 53, | 0, | 0 |
| 68, BEAM | , | 27, | 27, | 51, | 54, | 0, | 0 |
| 69, BEAM | , | 8,  | 38, | 52, | 9,  | 0, | 0 |
| 70, BEAM | , | 19, | 51, | 53, | 25, | 0, | 0 |
| 71, BEAM | , | 27, | 27, | 54, | 39, | 0, | 0 |
| 72, BEAM | , | 7,  | 37, | 55, | 8,  | 0, | 0 |
| 73, BEAM | , | 18, | 50, | 56, | 24, | 0, | 0 |
| 74, BEAM | , | 27, | 27, | 57, | 38, | 0, | 0 |

\*MATERIAL ; Material

; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO,  
[DATA1] ; STEEL, CONC, USER

; iMAT, TYPE, MNAME, SPHEAT, HEATCO, PLAST, TUNIT, bMASS, DAMPRATIO,  
[DATA2], [DATA2] ; SRC

; [DATA1] : 1, DB, NAME, CODE, USEELAST, ELAST

; [DATA1] : 2, ELAST, POISN, THERMAL, DEN, MASS





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21, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
22, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
23, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
24, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
25, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
26, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
27, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
28, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
*SECTION ; Section
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, [DATA1], [DATA2]
; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, BLT, D1, ..., D8, iCEL
; 1st line - VALUE
; AREA, ASy, ASz, lxx, lyy, lzz ;
2nd line
; CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy, Cz
; 3rd line
; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz
; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, ELAST, DEN, POIS, POIC, SF,
THERMAL ; 1st line - SRC
; D1, D2, [SRC] ;
2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 1, DB, NAME1, NAME2, D1, D2
; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 2, D11, D12, D13, D14, D15,
D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE, SHAPE, iyVAR, izVAR, STYPE
; 1st line - TAPERED
; DB, NAME1, NAME2
; 2nd line(STYPE=DB)
; [DIM1], [DIM2] ;
2nd line(STYPE=USER)
; D11, D12, D13, D14, D15, D16, D17, D18
; 2nd line(STYPE=VALUE)
; AREA1, ASy1, ASz1, lxx1, lyy1, lzz1
; 3rd line(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1
; 4th line(STYPE=VALUE)
; Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2
; 5th line(STYPE=VALUE)

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;          D21,   D22,   D23,   D24,   D25,   D26,   D27,   D28
; 6th line(STYPE=VALUE)
;          AREA2,   ASy2,   ASz2,   Ixx2,   Iyy2,   Izz2
; 7th line(STYPE=VALUE)
;          CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2
; 8th line(STYPE=VALUE)
;          Y21,   Y22,   Y23,   Y24,   Z21,   Z22,   Z23,   Z24,   Zyy2,   Zzz2
; 9th line(STYPE=VALUE)
;          OPT1, OPT2, [JOINT]
2nd line(STYPE=PSC)
;          ELAST, DEN, POIS, POIC, THERMAL
2nd line(STYPE=PSC-CMPW)
;          bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE
; 3rd line(STYPE=PSC)
;          bSHEARCHK,   bSYM,   bHUNCH,   [CMPWEB-I],   [CMPWEB-J]
; 3rd line(STYPE=PSC-CMPW)
;          bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF-I], [STIFF-J]
; 4th line(STYPE=PSC)
;          [SIZE-A]-i
line(STYPE=PSC)
;          [SIZE-B]-i
line(STYPE=PSC)
;          [SIZE-C]-i
line(STYPE=PSC)
;          [SIZE-D]-i
line(STYPE=PSC)
;          [SIZE-A]-j
line(STYPE=PSC)
;          [SIZE-B]-j
line(STYPE=PSC)
;          [SIZE-C]-j
line(STYPE=PSC)
;          [SIZE-D]-j
line(STYPE=PSC)
;          GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S
2nd line(STYPE=CMP-B/I)
;          SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i
line(STYPE=CMP-B/I)
;          SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j
line(STYPE=CMP-B/I)
;          N1, N2, Hr, Hr2, tr1, tr2

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line(STYPE=CMP-B)
;      GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j
; 2nd line(STYPE=CMP-CI/CT)
;      OPT1, OPT2, [JOINT] ; 3rd
line(STYPE=CMP-CI/CT)
;      [SIZE-A]-i ; 4th
line(STYPE=CMP-CI/CT)
;      [SIZE-B]-i ; 5th
line(STYPE=CMP-CI/CT)
;      [SIZE-C]-i ; 6th
line(STYPE=CMP-CI/CT)
;      [SIZE-D]-i ; 7th
line(STYPE=CMP-CI/CT)
;      [SIZE-A]-j ; 8th
line(STYPE=CMP-CI/CT)
;      [SIZE-B]-j ; 9th
line(STYPE=CMP-CI/CT)
;      [SIZE-C]-j ; 10th
line(STYPE=CMP-CI/CT)
;      [SIZE-D]-j ; 11th
line(STYPE=CMP-CI/CT)
;  iSEC,  TYPE,  SNAME,  [OFFSET],  bSD,  bWE,  STYPE1,  STYPE2
; 1st line - CONSTRUCT
;      SHAPE, ...(same with other type data from shape) ;
Before (STYPE1)
;      SHAPE, ...(same with other type data from shape) ;
After (STYPE2)
;  iSEC,  TYPE,  SNAME,  [OFFSET],  bSD,  bWE,  SHAPE
; 1st line - COMPOSITE-SB
;      Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 ; 2nd
line
;      N1, N2, Hr, Hr2, tr1, tr2 ; 3rd
line
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ;
4th line
;  iSEC,  TYPE,  SNAME,  [OFFSET],  bSD,  bWE,  SHAPE
; 1st line - COMPOSITE-SI
;      Hw, tw, B, tf1, B2, tf2 ; 2nd
line
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ;
3rd line

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;      iSEC,      TYPE,      SNAME,      [OFFSET],      bSD,      bWE,      SHAPE
; 1st line - COMPOSITE-CI/CT
;      OPT1, OPT2, [JOINT]
2nd line
;      [SIZE-A]
line
;      [SIZE-B]
line
;      [SIZE-C]
line
;      [SIZE-D]
line
;      SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb
7th line
;      iSEC,      TYPE,      SNAME,      [OFFSET],      bSD,      bWE,      SHAPE
; 1st line - PSC
;      OPT1, OPT2, [JOINT]
2nd line
;      bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE
; 3rd line
;      bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF]
; 4th line
;      bWE, [WARPING POINT]-i, [WARPING POINT]-j
5th line
;      [SIZE-A]
line
;      [SIZE-B]
line
;      [SIZE-C]
line
;      [SIZE-D]
line
; [DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10
; [DATA2] : CCSHAPE or iCEL or iN1, iN2
; [SRC] : 1, DB, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10,
iN1, iN2
; [DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, D7, D8
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI,
VUSERJ
; [JOINT] : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB),

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0(nCELL), 2(nCEL2)  
 ; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB),  
 5(nCELL), 11(nCEL2)  
 ; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB),  
 8(nCELL), 18(nCEL2)  
 ; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB),  
 0(nCELL), 11(nCEL2)  
 ; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB),  
 0(nCELL), 18(nCEL2)  
 ; [STIFF] : AREA, ASy, ASz, Ixx, Iyy, Izz  
 ; [SCHK] : bAUTO\_Z1, Z1, bAUTO\_Z3, Z3  
 ; [WT] : bAUTO\_TOR, TOR, bAUTO\_SHR1, SHR1, bAUTO\_SHR2, SHR2,  
 bAUTO\_SHR3, SHR3  
 ; [CMPWEB] : EFD, LRF, A, B, H, T  
 ; [WARPING POINT] : nWarpingCheck, X1,X2,X3,X4,X5,X6, Y1,Y2,Y3,Y4,Y5,Y6  
 1, VALUE , 1 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.905627, 0.905627, 0, 0, 0, 0, 0, 0, 0  
 0.82016, 0, 0, 0.169141, 0.935738, 1.53277  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 2, VALUE , 2 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.801885, 0.801885, 0, 0, 0, 0, 0, 0, 0  
 0.64302, 0, 0, 0.165441, 0.33156, 0.965324  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 3, VALUE , 3 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.814119, 0.814119, 0, 0, 0, 0, 0, 0, 0  
 0.66279, 0, 0, 0.165441, 0.636968, 0.967819  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 4, VALUE , 4 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.693275, 0.693275, 0, 0, 0, 0, 0, 0, 0  
 0.48063, 0, 0, 0.105427, 0.443803, 0.912832  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 5, VALUE , 5 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.691759, 0.691759, 0, 0, 0, 0, 0, 0, 0  
 0.47853, 0, 0, 0.0771218, 0.448944, 0.905444  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 6, VALUE , 6 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,

0.714178, 0.714178, 0, 0, 0, 0, 0, 0, 0  
0.51005, 0, 0, 0.0409357, 0.567759, 0.906133  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
7, VALUE , 7 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.723581, 0.723581, 0, 0, 0, 0, 0, 0, 0, 0  
0.52357, 0, 0, 0.0187855, 0.62805, 0.90617  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
8, VALUE , 8 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.722413, 0.722413, 0, 0, 0, 0, 0, 0, 0, 0  
0.52188, 0, 0, 0.0100121, 0.636861, 0.903392  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
9, VALUE , 9 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.722897, 0.722897, 0, 0, 0, 0, 0, 0, 0, 0  
0.52258, 0, 0, 0.0134876, 0.632916, 0.904534  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
10, VALUE , 10 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.71279, 0.71279, 0, 0, 0, 0, 0, 0, 0, 0  
0.50807, 0, 0, 0.0292703, 0.569589, 0.902882  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
11, VALUE , 11 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.716624, 0.716624, 0, 0, 0, 0, 0, 0, 0, 0  
0.51355, 0, 0, 0.0623151, 0.573796, 0.911866  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
12, VALUE , 12 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.695284, 0.695284, 0, 0, 0, 0, 0, 0, 0, 0  
0.48342, 0, 0, 0.107863, 0.503392, 0.913462  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
13, VALUE , 13 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.90085, 0.90085, 0, 0, 0, 0, 0, 0, 0, 0  
0.81153, 0, 0, 0.168469, 0.923621, 1.5656  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
14, VALUE , 14 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.7955, 0.7955, 0, 0, 0, 0, 0, 0, 0, 0

0.63282, 0, 0, 0.16436, 0.315245, 0.982914  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
15, VALUE , 15 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.80783, 0.80783, 0, 0, 0, 0, 0, 0, 0  
0.65259, 0, 0, 0.16436, 0.624118, 0.985409  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
16, VALUE , 16 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.690297, 0.690297, 0, 0, 0, 0, 0, 0, 0  
0.47651, 0, 0, 0.106203, 0.491856, 0.929778  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
17, VALUE , 17 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.709253, 0.709253, 0, 0, 0, 0, 0, 0, 0  
0.50304, 0, 0, 0.0607239, 0.548919, 0.927273  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
18, VALUE , 18 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.705372, 0.705372, 0, 0, 0, 0, 0, 0, 0  
0.49755, 0, 0, 0.0279995, 0.543146, 0.91827  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
19, VALUE , 19 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.712229, 0.712229, 0, 0, 0, 0, 0, 0, 0  
0.50727, 0, 0, 0.0124143, 0.59282, 0.917925  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
20, VALUE , 20 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.711173, 0.711173, 0, 0, 0, 0, 0, 0, 0  
0.50656, 0, 0, 0.00903217, 0.596543, 0.916762  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
21, VALUE , 21 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.712917, 0.712917, 0, 0, 0, 0, 0, 0, 0  
0.50825, 0, 0, 0.0174676, 0.588415, 0.91954  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
22, VALUE , 22 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.706781, 0.706781, 0, 0, 0, 0, 0, 0, 0  
0.49954, 0, 0, 0.0395598, 0.541876, 0.921541

0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 23, VALUE , 23 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.686746, 0.686746, 0, 0, 0, 0, 0, 0, 0  
 0.47162, 0, 0, 0.075618, 0.436854, 0.92176  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 24, VALUE , 24 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.688273, 0.688273, 0, 0, 0, 0, 0, 0, 0  
 0.47372, 0, 0, 0.103777, 0.434097, 0.929148  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 25, VALUE , 25 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.150997, 0.150997, 0, 0, 0, 0, 0, 0, 0  
 0.0228, 0, 0, 1.09e-006, 0.00529551, 5.419e-005  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 26, VALUE , 26 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.154919, 0.154919, 0, 0, 0, 0, 0, 0, 0  
 0.024, 0, 0, 1.15e-006, 0.00633283, 5.42e-005  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 27, VALUE , 27 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.134164, 0.134164, 0, 0, 0, 0, 0, 0, 0  
 0.018, 0, 0, 8.6e-007, 0.00222623, 5.413e-005  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 28, VALUE , 28 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 3.16228, 3.16228, 0, 0, 0, 0, 0, 0, 0  
 10, 0, 0, 10, 10, 10  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 29, TAPERED , TAP1 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 2,  
 1, VALUE  
 0.905627, 0.905627, 0, 0, 0, 0, 0, 0, 0  
 0.82016, 0, 0, 0.169141, 0.935738, 1.53277  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.801885, 0.801885, 0, 0, 0, 0, 0, 0, 0  
 0.64302, 0, 0, 0.165441, 0.33156, 0.965324  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

30, TAPERED , TAP2 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.801885, 0.801885, 0, 0, 0, 0, 0, 0

0.64302, 0, 0, 0.165441, 0.33156, 0.965324

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0.905627, 0.905627, 0, 0, 0, 0, 0, 0

0.82016, 0, 0, 0.169141, 0.935738, 1.53277

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

31, TAPERED , TAP3 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.801885, 0.801885, 0, 0, 0, 0, 0, 0

0.64302, 0, 0, 0.165441, 0.33156, 0.965324

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0.814119, 0.814119, 0, 0, 0, 0, 0, 0

0.66279, 0, 0, 0.165441, 0.636968, 0.967819

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

32, TAPERED , TAP4 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.814119, 0.814119, 0, 0, 0, 0, 0, 0

0.66279, 0, 0, 0.165441, 0.636968, 0.967819

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0.801885, 0.801885, 0, 0, 0, 0, 0, 0

0.64302, 0, 0, 0.165441, 0.33156, 0.965324

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

33, TAPERED , TAP5 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.814119, 0.814119, 0, 0, 0, 0, 0, 0

0.66279, 0, 0, 0.165441, 0.636968, 0.967819

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0.693275, 0.693275, 0, 0, 0, 0, 0, 0

0.48063, 0, 0, 0.105427, 0.443803, 0.912832

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

34, TAPERED , TAP6 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
1, VALUE

0.693275, 0.693275, 0, 0, 0, 0, 0, 0, 0  
0.48063, 0, 0, 0.105427, 0.443803, 0.912832  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.691759, 0.691759, 0, 0, 0, 0, 0, 0, 0  
0.47853, 0, 0, 0.0771218, 0.448944, 0.905444  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

35, TAPERED , TAP7 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
1, VALUE

0.691759, 0.691759, 0, 0, 0, 0, 0, 0, 0  
0.47853, 0, 0, 0.0771218, 0.448944, 0.905444  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.714178, 0.714178, 0, 0, 0, 0, 0, 0, 0  
0.51005, 0, 0, 0.0409357, 0.567759, 0.906133  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

36, TAPERED , TAP8 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
1, VALUE

0.714178, 0.714178, 0, 0, 0, 0, 0, 0, 0  
0.51005, 0, 0, 0.0409357, 0.567759, 0.906133  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.723581, 0.723581, 0, 0, 0, 0, 0, 0, 0  
0.52357, 0, 0, 0.0187855, 0.62805, 0.90617  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

37, TAPERED , TAP9 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
1, VALUE

0.723581, 0.723581, 0, 0, 0, 0, 0, 0, 0  
0.52357, 0, 0, 0.0187855, 0.62805, 0.90617  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.722413, 0.722413, 0, 0, 0, 0, 0, 0, 0  
0.52188, 0, 0, 0.0100121, 0.636861, 0.903392  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

38, TAPERED , TAP10 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.722413, 0.722413, 0, 0, 0, 0, 0, 0  
0.52188, 0, 0, 0.0100121, 0.636861, 0.903392  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.722897, 0.722897, 0, 0, 0, 0, 0, 0  
0.52258, 0, 0, 0.0134876, 0.632916, 0.904534  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

39, TAPERED , TAP11 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.722897, 0.722897, 0, 0, 0, 0, 0, 0  
0.52258, 0, 0, 0.0134876, 0.632916, 0.904534  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.71279, 0.71279, 0, 0, 0, 0, 0, 0  
0.50807, 0, 0, 0.0292703, 0.569589, 0.902882  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

40, TAPERED , TAP12 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.71279, 0.71279, 0, 0, 0, 0, 0, 0  
0.50807, 0, 0, 0.0292703, 0.569589, 0.902882  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.716624, 0.716624, 0, 0, 0, 0, 0, 0  
0.51355, 0, 0, 0.0623151, 0.573796, 0.911866  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

41, TAPERED , TAP13 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.716624, 0.716624, 0, 0, 0, 0, 0, 0  
0.51355, 0, 0, 0.0623151, 0.573796, 0.911866  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.695284, 0.695284, 0, 0, 0, 0, 0, 0  
0.48342, 0, 0, 0.107863, 0.503392, 0.913462  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

42, TAPERED , TAP14 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.695284, 0.695284, 0, 0, 0, 0, 0, 0  
 0.48342, 0, 0, 0.107863, 0.503392, 0.913462  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.814119, 0.814119, 0, 0, 0, 0, 0, 0  
 0.66279, 0, 0, 0.165441, 0.636968, 0.967819  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 43, TAPERED , TAP15 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.90085, 0.90085, 0, 0, 0, 0, 0, 0  
 0.81153, 0, 0, 0.168469, 0.923621, 1.5656  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.7955, 0.7955, 0, 0, 0, 0, 0, 0  
 0.63282, 0, 0, 0.16436, 0.315245, 0.982914  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 44, TAPERED , TAP16 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.7955, 0.7955, 0, 0, 0, 0, 0, 0  
 0.63282, 0, 0, 0.16436, 0.315245, 0.982914  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.90085, 0.90085, 0, 0, 0, 0, 0, 0  
 0.81153, 0, 0, 0.168469, 0.923621, 1.5656  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 45, TAPERED , TAP17 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.7955, 0.7955, 0, 0, 0, 0, 0, 0  
 0.63282, 0, 0, 0.16436, 0.315245, 0.982914  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.80783, 0.80783, 0, 0, 0, 0, 0, 0  
 0.65259, 0, 0, 0.16436, 0.624118, 0.985409  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 46, TAPERED , TAP18 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.80783, 0.80783, 0, 0, 0, 0, 0, 0

0.65259, 0, 0, 0.16436, 0.624118, 0.985409  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.7955, 0.7955, 0, 0, 0, 0, 0, 0, 0, 0  
 0.63282, 0, 0, 0.16436, 0.315245, 0.982914  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 47, TAPERED , TAP19 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.80783, 0.80783, 0, 0, 0, 0, 0, 0, 0, 0  
 0.65259, 0, 0, 0.16436, 0.624118, 0.985409  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.690297, 0.690297, 0, 0, 0, 0, 0, 0, 0, 0  
 0.47651, 0, 0, 0.106203, 0.491856, 0.929778  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 48, TAPERED , TAP20 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.690297, 0.690297, 0, 0, 0, 0, 0, 0, 0, 0  
 0.47651, 0, 0, 0.106203, 0.491856, 0.929778  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.709253, 0.709253, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50304, 0, 0, 0.0607239, 0.548919, 0.927273  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 49, TAPERED , TAP21 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.709253, 0.709253, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50304, 0, 0, 0.0607239, 0.548919, 0.927273  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.705372, 0.705372, 0, 0, 0, 0, 0, 0, 0, 0  
 0.49755, 0, 0, 0.0279995, 0.543146, 0.91827  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 50, TAPERED , TAP22 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.705372, 0.705372, 0, 0, 0, 0, 0, 0, 0, 0  
 0.49755, 0, 0, 0.0279995, 0.543146, 0.91827

0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.712229, 0.712229, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50727, 0, 0, 0.0124143, 0.59282, 0.917925  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 51, TAPERED , TAP23 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.712229, 0.712229, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50727, 0, 0, 0.0124143, 0.59282, 0.917925  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.71173, 0.71173, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50656, 0, 0, 0.00903217, 0.596543, 0.916762  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 52, TAPERED , TAP24 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.71173, 0.71173, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50656, 0, 0, 0.00903217, 0.596543, 0.916762  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.712917, 0.712917, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50825, 0, 0, 0.0174676, 0.588415, 0.91954  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 53, TAPERED , TAP25 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.712917, 0.712917, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50825, 0, 0, 0.0174676, 0.588415, 0.91954  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.706781, 0.706781, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.49954, 0, 0, 0.0395598, 0.541876, 0.921541  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 54, TAPERED , TAP26 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.706781, 0.706781, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.49954, 0, 0, 0.0395598, 0.541876, 0.921541  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.686746, 0.686746, 0, 0, 0, 0, 0, 0  
 0.47162, 0, 0, 0.075618, 0.436854, 0.92176  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 55, TAPERED , TAP27 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE

0.686746, 0.686746, 0, 0, 0, 0, 0, 0  
 0.47162, 0, 0, 0.075618, 0.436854, 0.92176  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.688273, 0.688273, 0, 0, 0, 0, 0, 0  
 0.47372, 0, 0, 0.103777, 0.434097, 0.929148  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

56, TAPERED , TAP28 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE

0.688273, 0.688273, 0, 0, 0, 0, 0, 0  
 0.47372, 0, 0, 0.103777, 0.434097, 0.929148  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.80783, 0.80783, 0, 0, 0, 0, 0, 0  
 0.65259, 0, 0, 0.16436, 0.624118, 0.985409  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

\*SECT-COLOR

: iSEC, W\_R, W\_G, W\_B, HF\_R, HF\_G, HF\_B, HE\_R, HE\_G, HE\_B, bBLEND, FACT

|     |      |    |    |    |      |    |    |    |      |     |     |
|-----|------|----|----|----|------|----|----|----|------|-----|-----|
| 1,  | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 2,  | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 3,  | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 4,  | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 5,  | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 6,  | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 7,  | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 8,  | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 9,  | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 10, | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 11, | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 12, | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 13, | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |
| 14, | 255, | 0, | 0, | 0, | 255, | 0, | 0, | 0, | 255, | NO, | 0.5 |

[illegible]

```

56, 255, 0, 0, 0, 255, 0, 0, 0, 255, NO, 0.5
*DGN-SECT
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, [DATA1], [DATA2]
; 1st line - DB/USER
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, BLT, D1, ..., D8, iCEL
; 1st line - VALUE
; AREA, ASy, ASz, lxx, lyy, lzz ;
2nd line
; CyP, CyM, CzP, CzM, QyB, QzB, PERI_OUT, PERI_IN, Cy, Cz
; 3rd line
; Y1, Y2, Y3, Y4, Z1, Z2, Z3, Z4, Zyy, Zzz
; 4th line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, ELAST, DEN, POIS, POIC, SF,
THERMAL ; 1st line - SRC
; D1, D2, [SRC] ;
2nd line
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 1, DB, NAME1, NAME2, D1, D2
; 1st line - COMBINED
; iSEC, TYPE, SNAME, [OFFSET], bSD, bWE, SHAPE, 2, D11, D12, D13, D14, D15,
D21, D22, D23, D24
; iSEC, TYPE, SNAME, [OFFSET2], bSD, bWE, SHAPE, iyVAR, izVAR, STYPE
; 1st line - TAPERED
; DB, NAME1, NAME2
; 2nd line(STYPE=DB)
; [DIM1], [DIM2] ;
2nd line(STYPE=USER)
; D11, D12, D13, D14, D15, D16, D17, D18
; 2nd line(STYPE=VALUE)
; AREA1, ASy1, ASz1, lxx1, lyy1, lzz1
; 3rd line(STYPE=VALUE)
; CyP1, CyM1, CzP1, CzM1, QyB1, QzB1, PERI_OUT1, PERI_IN1, Cy1, Cz1
; 4th line(STYPE=VALUE)
; Y11, Y12, Y13, Y14, Z11, Z12, Z13, Z14, Zyy1, Zyy2
; 5th line(STYPE=VALUE)
; D21, D22, D23, D24, D25, D26, D27, D28
; 6th line(STYPE=VALUE)
; AREA2, ASy2, ASz2, lxx2, lyy2, lzz2
; 7th line(STYPE=VALUE)
; CyP2, CyM2, CzP2, CzM2, QyB2, QzB2, PERI_OUT2, PERI_IN2, Cy2, Cz2
; 8th line(STYPE=VALUE)
; Y21, Y22, Y23, Y24, Z21, Z22, Z23, Z24, Zyy2, Zzz2

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; 9th line(STYPE=VALUE)
;      OPT1, OPT2, [JOINT] ;
2nd line(STYPE=PSC)
;      ELAST, DEN, POIS, POIC, THERMAL ;
2nd line(STYPE=PSC-CMPW)
;      bSHEARCHK, [SCHK-I], [SCHK-J], [WT-I], [WT-J], WI, WJ, bSYM, bSIDEHOLE
; 3rd line(STYPE=PSC)
;      bSHEARCHK, bSYM, bHUNCH, [CMPWEB-I], [CMPWEB-J]
; 3rd line(STYPE=PSC-CMPW)
;      bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF-I], [STIFF-J]
; 4th line(STYPE=PSC)
;      [SIZE-A]-i ; 5th
line(STYPE=PSC)
;      [SIZE-B]-i ; 6th
line(STYPE=PSC)
;      [SIZE-C]-i ; 7th
line(STYPE=PSC)
;      [SIZE-D]-i ; 8th
line(STYPE=PSC)
;      [SIZE-A]-j ; 9th
line(STYPE=PSC)
;      [SIZE-B]-j ; 10th
line(STYPE=PSC)
;      [SIZE-C]-j ; 11th
line(STYPE=PSC)
;      [SIZE-D]-j ; 12th
line(STYPE=PSC)
;      GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMULTI, EsEc-L, EsEc-S ;
2nd line(STYPE=CMP-B/I)
;      SW_i, Hw_i, tw_i, B_i, Bf1_i, tf1_i, B2_i, Bf2_i, tf2_i ; 3rd
line(STYPE=CMP-B/I)
;      SW_j, Hw_j, tw_j, B_j, Bf1_j, tf1_j, B2_j, Bf2_j, tf2_j ; 4th
line(STYPE=CMP-B/I)
;      N1, N2, Hr, Hr2, tr1, tr2 ; 5th
line(STYPE=CMP-B)
;      GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb, bSYM, SW_i, SW_j
; 2nd line(STYPE=CMP-CI/CT)
;      OPT1, OPT2, [JOINT] ; 3rd
line(STYPE=CMP-CI/CT)
;      [SIZE-A]-i ; 4th
line(STYPE=CMP-CI/CT)

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;      [SIZE-B]-i ; 5th
line(STYPE=CMP-CI/CT)
;      [SIZE-C]-i ; 6th
line(STYPE=CMP-CI/CT)
;      [SIZE-D]-i ; 7th
line(STYPE=CMP-CI/CT)
;      [SIZE-A]-j ; 8th
line(STYPE=CMP-CI/CT)
;      [SIZE-B]-j ; 9th
line(STYPE=CMP-CI/CT)
;      [SIZE-C]-j ; 10th
line(STYPE=CMP-CI/CT)
;      [SIZE-D]-j ; 11th
line(STYPE=CMP-CI/CT)
;   iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   bWE,   STYPE1,   STYPE2
; 1st line - CONSTRUCT
;      SHAPE, ...(same with other type data from shape) ;
Before (STYPE1)
;      SHAPE, ...(same with other type data from shape) ;
After (STYPE2)
;   iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   bWE,   SHAPE
; 1st line - COMPOSITE-SB
;      Hw, tw, B, Bf1, tf1, B2, Bf2, tf2 ; 2nd
line
;      N1, N2, Hr, Hr2, tr1, tr2 ; 3rd
line
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ;
4th line
;   iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   bWE,   SHAPE
; 1st line - COMPOSITE-SI
;      Hw, tw, B, tf1, B2, tf2 ; 2nd
line
;      SW, GN, CTC, Bc, Tc, Hh, EsEc, DsDc, Ps, Pc, bMulti, Elong, Esh ;
3rd line
;   iSEC,   TYPE,   SNAME,   [OFFSET],   bSD,   bWE,   SHAPE
; 1st line - COMPOSITE-CI/CT
;      OPT1, OPT2, [JOINT] ;
2nd line
;      [SIZE-A] ; 3rd
line
;      [SIZE-B] ; 4th

```

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line
;      [SIZE-C]                                     ; 5th
line
;      [SIZE-D]                                     ; 6th
line
;      SW, GN, CTC, Bc, Tc, Hh, EgdEsb, DgdDsb, Pgd, Psb          ;
7th line
;      iSEC,      TYPE,      SNAME,      [OFFSET],      bSD,      bWE,      SHAPE
; 1st line - PSC
;      OPT1, OPT2, [JOINT]                                     ;
2nd line
;      bSHEARCHK, [SCHK], [WT], WIDTH, bSYM, bSIDEHOLE
; 3rd line
;      bUSERDEFMESH SIZE, MESH SIZE, bUSERINPSTIFF, [STIFF]
; 4th line
;      bWE, [WARPING POINT]-i, [WARPING POINT]-j                ;
5th line
;      [SIZE-A]                                     ; 6th
line
;      [SIZE-B]                                     ; 7th
line
;      [SIZE-C]                                     ; 8th
line
;      [SIZE-D]                                     ; 9th
line
; [DATA1] : 1, DB, NAME or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10
; [DATA2] : CCSHAPE or iCEL or iN1, iN2
; [SRC]   : 1, DB, NAME1, NAME2 or 2, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10,
iN1, iN2
; [DIM1], [DIM2] : D1, D2, D3, D4, D5, D6, D7, D8
; [OFFSET] : OFFSET, iCENT, iREF, iHORZ, HUSER, iVERT, VUSER
; [OFFSET2]: OFFSET, iCENT, iREF, iHORZ, HUSERI, HUSERJ, iVERT, VUSERI,
VUSERJ
; [JOINT]   : 8(1CELL, 2CELL), 13(3CELL), 9(PSCM), 8(PSCH), 9(PSCT), 2(PSCB),
0(nCELL), 2(nCEL2)
; [SIZE-A] : 6(1CELL, 2CELL), 10(3CELL), 10(PSCM), 6(PSCH), 8(PSCT), 10(PSCB),
5(nCELL), 11(nCEL2)
; [SIZE-B] : 6(1CELL, 2CELL), 12(3CELL), 6(PSCM), 6(PSCH), 8(PSCT), 6(PSCB),
8(nCELL), 18(nCEL2)
; [SIZE-C] : 10(1CELL, 2CELL), 13(3CELL), 9(PSCM), 10(PSCH), 7(PSCT), 8(PSCB),
0(nCELL), 11(nCEL2)

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; [SIZE-D] : 8(1CELL, 2CELL), 13(3CELL), 6(PSCM), 7(PSCH), 8(PSCT), 5(PSCB),
0(nCELL), 18(nCEL2)
; [STIFF] : AREA, ASy, ASz, Ixx, Iyy, Izz
; [SCHK] : bAUTO_Z1, Z1, bAUTO_Z3, Z3
; [WT] : bAUTO_TOR, TOR, bAUTO_SHR1, SHR1, bAUTO_SHR2, SHR2,
bAUTO_SHR3, SHR3
; [CMPWEB] : EFD, LRF, A, B, H, T
; [WARPING POINT] : nWarpingCheck, X1,X2,X3,X4,X5,X6, Y1,Y2,Y3,Y4,Y5,Y6
1, VALUE , 1 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,
0.905627, 0.905627, 0, 0, 0, 0, 0, 0, 0
0.82016, 0, 0, 0.169141, 0.935738, 1.53277
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
2, VALUE , 2 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,
0.801885, 0.801885, 0, 0, 0, 0, 0, 0, 0, 0
0.64302, 0, 0, 0.165441, 0.33156, 0.965324
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
3, VALUE , 3 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,
0.814119, 0.814119, 0, 0, 0, 0, 0, 0, 0, 0
0.66279, 0, 0, 0.165441, 0.636968, 0.967819
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
4, VALUE , 4 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,
0.693275, 0.693275, 0, 0, 0, 0, 0, 0, 0, 0
0.48063, 0, 0, 0.105427, 0.443803, 0.912832
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
5, VALUE , 5 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,
0.691759, 0.691759, 0, 0, 0, 0, 0, 0, 0, 0
0.47853, 0, 0, 0.0771218, 0.448944, 0.905444
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
6, VALUE , 6 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,
0.714178, 0.714178, 0, 0, 0, 0, 0, 0, 0, 0
0.51005, 0, 0, 0.0409357, 0.567759, 0.906133
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
7, VALUE , 7 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,
0.723581, 0.723581, 0, 0, 0, 0, 0, 0, 0, 0
0.52357, 0, 0, 0.0187855, 0.62805, 0.90617

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0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
8, VALUE , 8 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.722413, 0.722413, 0, 0, 0, 0, 0, 0, 0  
0.52188, 0, 0, 0.0100121, 0.636861, 0.903392  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
9, VALUE , 9 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.722897, 0.722897, 0, 0, 0, 0, 0, 0, 0  
0.52258, 0, 0, 0.0134876, 0.632916, 0.904534  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
10, VALUE , 10 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.71279, 0.71279, 0, 0, 0, 0, 0, 0, 0  
0.50807, 0, 0, 0.0292703, 0.569589, 0.902882  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
11, VALUE , 11 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.716624, 0.716624, 0, 0, 0, 0, 0, 0, 0  
0.51355, 0, 0, 0.0623151, 0.573796, 0.911866  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
12, VALUE , 12 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.695284, 0.695284, 0, 0, 0, 0, 0, 0, 0  
0.48342, 0, 0, 0.107863, 0.503392, 0.913462  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
13, VALUE , 13 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.90085, 0.90085, 0, 0, 0, 0, 0, 0, 0  
0.81153, 0, 0, 0.168469, 0.923621, 1.5656  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
14, VALUE , 14 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.7955, 0.7955, 0, 0, 0, 0, 0, 0, 0  
0.63282, 0, 0, 0.16436, 0.315245, 0.982914  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
15, VALUE , 15 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.80783, 0.80783, 0, 0, 0, 0, 0, 0, 0  
0.65259, 0, 0, 0.16436, 0.624118, 0.985409  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
16, VALUE , 16 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.690297, 0.690297, 0, 0, 0, 0, 0, 0, 0  
0.47651, 0, 0, 0.106203, 0.491856, 0.929778  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
17, VALUE , 17 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.709253, 0.709253, 0, 0, 0, 0, 0, 0, 0  
0.50304, 0, 0, 0.0607239, 0.548919, 0.927273  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
18, VALUE , 18 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.705372, 0.705372, 0, 0, 0, 0, 0, 0, 0  
0.49755, 0, 0, 0.0279995, 0.543146, 0.91827  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
19, VALUE , 19 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.712229, 0.712229, 0, 0, 0, 0, 0, 0, 0  
0.50727, 0, 0, 0.0124143, 0.59282, 0.917925  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
20, VALUE , 20 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.71173, 0.71173, 0, 0, 0, 0, 0, 0, 0  
0.50656, 0, 0, 0.00903217, 0.596543, 0.916762  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
21, VALUE , 21 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.712917, 0.712917, 0, 0, 0, 0, 0, 0, 0  
0.50825, 0, 0, 0.0174676, 0.588415, 0.91954  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
22, VALUE , 22 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.706781, 0.706781, 0, 0, 0, 0, 0, 0, 0  
0.49954, 0, 0, 0.0395598, 0.541876, 0.921541  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
23, VALUE , 23 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
0.686746, 0.686746, 0, 0, 0, 0, 0, 0, 0  
0.47162, 0, 0, 0.075618, 0.436854, 0.92176  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

24, VALUE , 24 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.688273, 0.688273, 0, 0, 0, 0, 0, 0, 0  
 0.47372, 0, 0, 0.103777, 0.434097, 0.929148  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 25, VALUE , 25 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.150997, 0.150997, 0, 0, 0, 0, 0, 0, 0  
 0.0228, 0, 0, 1.09e-006, 0.00529551, 5.419e-005  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 26, VALUE , 26 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.154919, 0.154919, 0, 0, 0, 0, 0, 0, 0  
 0.024, 0, 0, 1.15e-006, 0.00633283, 5.42e-005  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 27, VALUE , 27 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 0.134164, 0.134164, 0, 0, 0, 0, 0, 0, 0  
 0.018, 0, 0, 8.6e-007, 0.00222623, 5.413e-005  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 28, VALUE , 28 , CC, 0, 0, 0, 0, 0, 0, YES, NO, SB , BUILT,  
 3.16228, 3.16228, 0, 0, 0, 0, 0, 0, 0  
 10, 0, 0, 10, 10, 10  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 29, TAPERED , TAP1 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 2,  
 1, VALUE  
 0.905627, 0.905627, 0, 0, 0, 0, 0, 0, 0  
 0.82016, 0, 0, 0.169141, 0.935738, 1.53277  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.801885, 0.801885, 0, 0, 0, 0, 0, 0, 0  
 0.64302, 0, 0, 0.165441, 0.33156, 0.965324  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 30, TAPERED , TAP2 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.801885, 0.801885, 0, 0, 0, 0, 0, 0, 0  
 0.64302, 0, 0, 0.165441, 0.33156, 0.965324  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0.905627, 0.905627, 0, 0, 0, 0, 0, 0  
 0.82016, 0, 0, 0.169141, 0.935738, 1.53277  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 31, TAPERED , TAP3 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.801885, 0.801885, 0, 0, 0, 0, 0, 0  
 0.64302, 0, 0, 0.165441, 0.33156, 0.965324  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.814119, 0.814119, 0, 0, 0, 0, 0, 0  
 0.66279, 0, 0, 0.165441, 0.636968, 0.967819  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 32, TAPERED , TAP4 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.814119, 0.814119, 0, 0, 0, 0, 0, 0  
 0.66279, 0, 0, 0.165441, 0.636968, 0.967819  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.801885, 0.801885, 0, 0, 0, 0, 0, 0  
 0.64302, 0, 0, 0.165441, 0.33156, 0.965324  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 33, TAPERED , TAP5 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.814119, 0.814119, 0, 0, 0, 0, 0, 0  
 0.66279, 0, 0, 0.165441, 0.636968, 0.967819  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.693275, 0.693275, 0, 0, 0, 0, 0, 0  
 0.48063, 0, 0, 0.105427, 0.443803, 0.912832  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 34, TAPERED , TAP6 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.693275, 0.693275, 0, 0, 0, 0, 0, 0  
 0.48063, 0, 0, 0.105427, 0.443803, 0.912832  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.691759, 0.691759, 0, 0, 0, 0, 0, 0

0.47853, 0, 0, 0.0771218, 0.448944, 0.905444  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 35, TAPERED , TAP7 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.691759, 0.691759, 0, 0, 0, 0, 0, 0, 0  
 0.47853, 0, 0, 0.0771218, 0.448944, 0.905444  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.714178, 0.714178, 0, 0, 0, 0, 0, 0, 0  
 0.51005, 0, 0, 0.0409357, 0.567759, 0.906133  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 36, TAPERED , TAP8 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.714178, 0.714178, 0, 0, 0, 0, 0, 0, 0  
 0.51005, 0, 0, 0.0409357, 0.567759, 0.906133  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.723581, 0.723581, 0, 0, 0, 0, 0, 0, 0  
 0.52357, 0, 0, 0.0187855, 0.62805, 0.90617  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 37, TAPERED , TAP9 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.723581, 0.723581, 0, 0, 0, 0, 0, 0, 0  
 0.52357, 0, 0, 0.0187855, 0.62805, 0.90617  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.722413, 0.722413, 0, 0, 0, 0, 0, 0, 0  
 0.52188, 0, 0, 0.0100121, 0.636861, 0.903392  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 38, TAPERED , TAP10 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.722413, 0.722413, 0, 0, 0, 0, 0, 0, 0  
 0.52188, 0, 0, 0.0100121, 0.636861, 0.903392  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.722897, 0.722897, 0, 0, 0, 0, 0, 0, 0  
 0.52258, 0, 0, 0.0134876, 0.632916, 0.904534

0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 39, TAPERED , TAP11 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.722897, 0.722897, 0, 0, 0, 0, 0, 0, 0  
 0.52258, 0, 0, 0.0134876, 0.632916, 0.904534  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.71279, 0.71279, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50807, 0, 0, 0.0292703, 0.569589, 0.902882  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 40, TAPERED , TAP12 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.71279, 0.71279, 0, 0, 0, 0, 0, 0, 0, 0  
 0.50807, 0, 0, 0.0292703, 0.569589, 0.902882  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.716624, 0.716624, 0, 0, 0, 0, 0, 0, 0, 0  
 0.51355, 0, 0, 0.0623151, 0.573796, 0.911866  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 41, TAPERED , TAP13 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.716624, 0.716624, 0, 0, 0, 0, 0, 0, 0, 0  
 0.51355, 0, 0, 0.0623151, 0.573796, 0.911866  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.695284, 0.695284, 0, 0, 0, 0, 0, 0, 0, 0  
 0.48342, 0, 0, 0.107863, 0.503392, 0.913462  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 42, TAPERED , TAP14 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
 1, VALUE  
 0.695284, 0.695284, 0, 0, 0, 0, 0, 0, 0, 0  
 0.48342, 0, 0, 0.107863, 0.503392, 0.913462  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
 0.814119, 0.814119, 0, 0, 0, 0, 0, 0, 0, 0  
 0.66279, 0, 0, 0.165441, 0.636968, 0.967819  
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

43, TAPERED , TAP15 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.90085, 0.90085, 0, 0, 0, 0, 0, 0

0.81153, 0, 0, 0.168469, 0.923621, 1.5656

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0.7955, 0.7955, 0, 0, 0, 0, 0, 0

0.63282, 0, 0, 0.16436, 0.315245, 0.982914

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

44, TAPERED , TAP16 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.7955, 0.7955, 0, 0, 0, 0, 0, 0

0.63282, 0, 0, 0.16436, 0.315245, 0.982914

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0.90085, 0.90085, 0, 0, 0, 0, 0, 0

0.81153, 0, 0, 0.168469, 0.923621, 1.5656

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

45, TAPERED , TAP17 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.7955, 0.7955, 0, 0, 0, 0, 0, 0

0.63282, 0, 0, 0.16436, 0.315245, 0.982914

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0.80783, 0.80783, 0, 0, 0, 0, 0, 0

0.65259, 0, 0, 0.16436, 0.624118, 0.985409

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

46, TAPERED , TAP18 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.80783, 0.80783, 0, 0, 0, 0, 0, 0

0.65259, 0, 0, 0.16436, 0.624118, 0.985409

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0.7955, 0.7955, 0, 0, 0, 0, 0, 0

0.63282, 0, 0, 0.16436, 0.315245, 0.982914

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

0, 0, 0, 0, 0, 0, 0, 0, 0, 0

47, TAPERED , TAP19 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
1, VALUE

0.80783, 0.80783, 0, 0, 0, 0, 0, 0, 0  
0.65259, 0, 0, 0.16436, 0.624118, 0.985409  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.690297, 0.690297, 0, 0, 0, 0, 0, 0, 0  
0.47651, 0, 0, 0.106203, 0.491856, 0.929778  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

48, TAPERED , TAP20 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
1, VALUE

0.690297, 0.690297, 0, 0, 0, 0, 0, 0, 0  
0.47651, 0, 0, 0.106203, 0.491856, 0.929778  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.709253, 0.709253, 0, 0, 0, 0, 0, 0, 0  
0.50304, 0, 0, 0.0607239, 0.548919, 0.927273  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

49, TAPERED , TAP21 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
1, VALUE

0.709253, 0.709253, 0, 0, 0, 0, 0, 0, 0  
0.50304, 0, 0, 0.0607239, 0.548919, 0.927273  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.705372, 0.705372, 0, 0, 0, 0, 0, 0, 0  
0.49755, 0, 0, 0.0279995, 0.543146, 0.91827  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

50, TAPERED , TAP22 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,  
1, VALUE

0.705372, 0.705372, 0, 0, 0, 0, 0, 0, 0  
0.49755, 0, 0, 0.0279995, 0.543146, 0.91827  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.712229, 0.712229, 0, 0, 0, 0, 0, 0, 0  
0.50727, 0, 0, 0.0124143, 0.59282, 0.917925  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

51, TAPERED , TAP23 , CC, 0, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.712229, 0.712229, 0, 0, 0, 0, 0, 0  
0.50727, 0, 0, 0.0124143, 0.59282, 0.917925  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.711173, 0.711173, 0, 0, 0, 0, 0, 0, 0  
0.50656, 0, 0, 0.00903217, 0.596543, 0.916762  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

52, TAPERED , TAP24 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.711173, 0.711173, 0, 0, 0, 0, 0, 0, 0  
0.50656, 0, 0, 0.00903217, 0.596543, 0.916762  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.712917, 0.712917, 0, 0, 0, 0, 0, 0, 0  
0.50825, 0, 0, 0.0174676, 0.588415, 0.91954  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

53, TAPERED , TAP25 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.712917, 0.712917, 0, 0, 0, 0, 0, 0, 0  
0.50825, 0, 0, 0.0174676, 0.588415, 0.91954  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.706781, 0.706781, 0, 0, 0, 0, 0, 0, 0  
0.49954, 0, 0, 0.0395598, 0.541876, 0.921541  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

54, TAPERED , TAP26 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

0.706781, 0.706781, 0, 0, 0, 0, 0, 0, 0  
0.49954, 0, 0, 0.0395598, 0.541876, 0.921541  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0.686746, 0.686746, 0, 0, 0, 0, 0, 0, 0  
0.47162, 0, 0, 0.075618, 0.436854, 0.92176  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
0, 0, 0, 0, 0, 0, 0, 0, 0, 0

55, TAPERED , TAP27 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,

1, VALUE

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0.686746, 0.686746, 0, 0, 0, 0, 0, 0
0.47162, 0, 0, 0.075618, 0.436854, 0.92176
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0.688273, 0.688273, 0, 0, 0, 0, 0, 0, 0
0.47372, 0, 0, 0.103777, 0.434097, 0.929148
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
56, TAPERED , TAP28 , CC, 0, 0, 0, 0, 0, 0, 0, 0, YES, NO, SB , 1,
1, VALUE
0.688273, 0.688273, 0, 0, 0, 0, 0, 0, 0
0.47372, 0, 0, 0.103777, 0.434097, 0.929148
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0.80783, 0.80783, 0, 0, 0, 0, 0, 0, 0
0.65259, 0, 0, 0.16436, 0.624118, 0.985409
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
0, 0, 0, 0, 0, 0, 0, 0, 0, 0
*STLDCASE ; Static Load Cases
; LCNAME, LCTYPE, DESC
AFTER, USER,
lc1 , L ,
lc2 , L ,
lc3 , L ,
*LOCALAXIS ; Node Local Axis
; NODE_LIST, iMETHOD, ANGLE-x, ANGLE-y, ANGLE-z ;
iMETHOD=1
; NODE_LIST, iMETHOD, P0X, P0Y, P0Z, P1X, P1Y, P1Z, P2X, P2Y, P2Z ;
iMETHOD=2
; NODE_LIST, iMETHOD, V1X, V1Y, V1Z, V2X, V2Y, V2Z ;
iMETHOD=3
45, 1, 0, 0, 1.237
46, 1, 0, 0, -0.918
47, 1, 0, 0, 1.109
48, 1, 0, 0, -1.046
*CONSTRAINT ; Supports
; NODE_LIST, CONST(Dx,Dy,Dz,Rx,Ry,Rz), GROUP
47, 111000,
45, 101000,
48, 011000,
46, 001000,

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*OFFSET      ; Beam End Offsets
; ELEM_LIST, TYPE, RGDxi, RGDYi, RGDZi, RGDxj, RGDYj, RGDZj, GROUP      ;
TYPE=GLOBAL
; ELEM_LIST, TYPE, RGDj, RGDj, GROUP                                     ;
TYPE=ELEMENT
    27, ELEMENT, 0.957, 0,
    28, ELEMENT, 0, 0.958,
    29, ELEMENT, 0.9, 0,
    30, ELEMENT, 0, 0.9,
    31, ELEMENT, 0.9, 0,
    32, ELEMENT, 0, 0.9,
    33, ELEMENT, 0.9, 0,
    34, ELEMENT, 0, 0.9,
    35, ELEMENT, 0.9, 0,
    36, ELEMENT, 0, 0.9,
    37, ELEMENT, 0.9, 0,
    38, ELEMENT, 0, 0.9,
    39, ELEMENT, 0.9, 0,
    40, ELEMENT, 0, 0.9,
    41, ELEMENT, 0.9, 0,
    42, ELEMENT, 0, 0.9,
    43, ELEMENT, 0.9, 0,
    44, ELEMENT, 0, 0.9,
    45, ELEMENT, 0.9, 0,
    46, ELEMENT, 0, 0.9,
    47, ELEMENT, 0.9, 0,
    48, ELEMENT, 0, 0.9,
    49, ELEMENT, 0.957, 0,
    50, ELEMENT, 0, 0.958,
*RIGIDLINK    ; Rigid Link
; M-NODE, DOF, S-NODE LIST, GROUP
    2, 111111, 3,
    15, 111111, 14,
    19, 111111, 20,
    30, 111111, 31,
; *LOADTOMASS, DIR, bNODAL, bBEAM, bFLOOR, bPRES, GRAV
;      LCNAME1, FACTOR1, LCNAME2, FACTOR2, ...      ; from line 1
*LOADTOMASS, XYZ, YES, YES, YES, YES, 9.806
    AFTER, 1
*USE-STLD, AFTER
*BEAMLOAD      ; Element Beam Loads

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; ELEM_LIST, CMD, TYPE, DIR, bPROJ, [ECCEN], [VALUE], GROUP
; ELEM_LIST, CMD, TYPE, TYPE, DIR, VX, VY, VZ, bPROJ, [ECCEN], [VALUE],
GROUP
; [VALUE]      : D1, P1, D2, P2, D3, P3, D4, P4
; [ECCEN]      : bECCEN, ECCDIR, I-END, J-END, bJ-END
; [ADDITIONAL] : bADDITIONAL,  ADDITIONAL_I-END,  ADDITIONAL_J-END,
bADDITIONAL_J-END
      1, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
      2, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
      3, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
      4, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
      5, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
      6, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
      7, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
      8, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
      9, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
     10, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
     11, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
     12, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
     13, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
     14, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.76482, 1, -1.76482, 0,
0, 0, 0, , NO, 0, 0, NO,
     15, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.76482, 1, -1.76482, 0,
0, 0, 0, , NO, 0, 0, NO,
     16, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.76482, 1, -1.76482, 0,
0, 0, 0, , NO, 0, 0, NO,
     17, BEAM   , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.76482, 1, -1.76482, 0,
0, 0, 0, , NO, 0, 0, NO,

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[illegible]

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0, 0, 0, , NO, 0, 0, NO,
    67, BEAM    , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.76482, 1, -1.76482, 0,
0, 0, 0, , NO, 0, 0, NO,
    68, BEAM    , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -0.595004, 1, -0.595004,
0, 0, 0, 0, , NO, 0, 0, NO,
    69, BEAM    , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
    70, BEAM    , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.76482, 1, -1.76482, 0,
0, 0, 0, , NO, 0, 0, NO,
    71, BEAM    , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -0.595004, 1, -0.595004,
0, 0, 0, 0, , NO, 0, 0, NO,
    72, BEAM    , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.53518, 1, -1.53518, 0,
0, 0, 0, , NO, 0, 0, NO,
    73, BEAM    , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -1.76482, 1, -1.76482, 0,
0, 0, 0, , NO, 0, 0, NO,
    74, BEAM    , UNILoad, GZ, YES, NO, aDir[1], , , , 0, -0.595004, 1, -0.595004,
0, 0, 0, 0, , NO, 0, 0, NO,
; End of data for load case [AFTER] -----
*USE-STLD, lc1
*CONLOAD      : Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    49, 0, 0, -0.00612, 0, 0, 0,
    50, 0, 0, -13.4, 0, 0, 0,
    51, 0, 0, 0.312, 0, 0, 0,
    52, 0, 0, -0.00612, 0, 0, 0,
    53, 0, 0, -13.4, 0, 0, 0,
    54, 0, 0, 0.312, 0, 0, 0,
    55, 0, 0, -0.0363, 0, 0, 0,
    56, 0, 0, -7.9365, 0, 0, 0,
    57, 0, 0, 0.1848, 0, 0, 0,
; End of data for load case [lc1] -----
*USE-STLD, lc2
*CONLOAD      : Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
    49, 0, 0, 0.406793, 0, 0, 0,
    50, 0, 0, -0.40122, 0, 0, 0,
    51, 0, 0, -10.337, 0, 0, 0,
    52, 0, 0, 0.406793, 0, 0, 0,
    53, 0, 0, -0.40122, 0, 0, 0,
    54, 0, 0, -10.337, 0, 0, 0,
    55, 0, 0, -0.2409, 0, 0, 0,

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56, 0, 0, -0.2376, 0, 0, 0,
57, 0, 0, -6.1215, 0, 0, 0,
; End of data for load case [lc2] -----
*USE-STLD, lc3
*CONLOAD      ; Nodal Loads
; NODE_LIST, FX, FY, FZ, MX, MY, MZ, GROUP
49, 0, 0, -11.7524, 0, 0, 0,
50, 0, 0, -0.12816, 0, 0, 0,
51, 0, 0, 0.73557, 0, 0, 0,
52, 0, 0, -11.7524, 0, 0, 0,
53, 0, 0, -0.12816, 0, 0, 0,
54, 0, 0, 0.73557, 0, 0, 0,
55, 0, 0, -6.9597, 0, 0, 0,
56, 0, 0, -0.0759, 0, 0, 0,
57, 0, 0, 0.4356, 0, 0, 0,
; End of data for load case [lc3] -----
*LOADCOMB      ; Combinations
; NAME=NAME, KIND, ACTIVE, bES, iTYPE, DESC, iSERV-TYPE, nLCOMTYPE      ;
line 1
;      ANAL1, LCNAME1, FACT1, ...                                     ; from line 2
      NAME=AFTER, GEN, ACTIVE, 0, 0, , 0, 0
      ST, AFTER, 1
*LC-COLOR      ; Diagram Color for Load Case
; ANAL, LCNAME, iR1(ALL), iG1(ALL), iB1(ALL), iR2(MIN), iG2(MIN), iB2(MIN),
iR3(MAX), iG2(MAX), iB2(MAX)
CB, AFTER, 85, 192, 0, 0, 128, 128, 0, 128, 192
ST, AFTER, 160, 255, 255, 0, 128, 128, 255, 192, 160
ST, lc1, 0, 192, 128, 160, 255, 255, 192, 72, 0
ST, lc2, 212, 160, 255, 163, 255, 160, 212, 160, 255
ST, lc3, 0, 128, 128, 148, 87, 255, 85, 192, 0
*ANAL-CTRL
; bARDC, bANRC, iITER, TOL, bCSECF, bTRS, bCRBAR, bTPF, bCSO, bSCS, bCLATS
YES, YES, 20, 0.001, YES, YES, YES, NO, NO, NO, NO, YES
*EIGEN-CTRL      ; Eigenvalue Analysis Control
; TYPE, iFREQ, iITER, iDIM, TOL, bMINMAX, FRMIN, FRMAX, bSTRUM      ;
TYPE=EIGEN
; TYPE, bINCNL, iGNUM                                     ; TYPE=RITZ(line
1)
;      KIND1, CASE1/GROUND1, iNOG1, ...                             ;
TYPE=RITZ(from line2)
      LANCZOS, 10, 20, 1, 1e-010, NO, 0, 0, NO

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\*ENDDATA