```
/OUT,SCRATCH
/PREP7
SMRT,OFF
ANTYPE,STATIC
ET,1,SHELL281                    ! 8 NODE LAYERED SHELL
KEYOPT,1,8,1                     ! WRITE LAYER RESULTS
SECTYPE,1,SHELL
SECDATA,0.0001,1,0               ! LAYER 1: 0.025 THK, THETA 0
SECDATA,0.0001,1,0               ! LAYER 2: 0.025 THK, THETA 90
SECDATA,0.0001,1,45              ! LAYER 3: 0.025 THK, THETA 90
SECDATA,0.0001,1,45              ! LAYER 4: 0.025 THK, THETA 0
SECDATA,0.0001,1,90              ! LAYER 1: 0.025 THK, THETA 0
SECDATA,0.0001,1,90              ! LAYER 2: 0.025 THK, THETA 90
SECDATA,0.0001,1,-45             ! LAYER 3: 0.025 THK, THETA 90
SECDATA,0.0001,1,-45             ! LAYER 4: 0.025 THK, THETA 0
SECDATA,0.0001,1,-45             ! LAYER 3: 0.025 THK, THETA 90
SECDATA,0.0001,1,-45             ! LAYER 4: 0.025 THK, THETA 0
SECDATA,0.0001,1,90              ! LAYER 1: 0.025 THK, THETA 0
SECDATA,0.0001,1,90              ! LAYER 2: 0.025 THK, THETA 90
SECDATA,0.0001,1,45              ! LAYER 3: 0.025 THK, THETA 90
SECDATA,0.0001,1,45              ! LAYER 4: 0.025 THK, THETA 0
SECDATA,0.0001,1,0               ! LAYER 1: 0.025 THK, THETA 0
SECDATA,0.0001,1,0               ! LAYER 2: 0.025 THK, THETA 90
```

```
MP,EX,1,34.61                    ! ORTHOTROPIC MATERIAL PROPERTIES
MP,EY,1,12.34
MP,EZ,1,34.61                    ! EZ=EY ASSUMED
MP,GXY,1,4.58
MP,GYZ,1,4.58
MP,GXZ,1,4.58
MP,PRXY,1,0.25                   ! MAJOR POISSONS RATIO
MP,PRYZ,1,0.01                   ! MAJOR POISSONS RATIO
MP,PRXZ,1,0.25                   ! MAJOR POISSONS RATIO
K,1                              ! CORNER KEYPOINTS OF QUADRANT (AREA)
K,2,0.1
K,3,0.1,0.1
K,4,,0.1
A,1,2,3,4
ESIZE,,6                         ! 6X6 MESH USING QUARTER SYMMETRY
AMESH,1
NSEL,S,LOC,X,0
DSYM,SYMM,X
NSEL,S,LOC,Y,0
DSYM,SYMM,Y
NSEL,S,LOC,X,0.1                 ! APPLY FREELY SUPPORTED B.C.
D,ALL
NSEL,S,LOC,Y,0.1
D,ALL
NSEL,ALL
```

```
SFE,ALL,2,PRES,,50000                    ! APPLY UNIFORM PRESSURE
OUTPR,NSOL,1
OUTPR,RSOL,1
FINISH
/SOLU
SOLVE
FINISH
/OUT
/POST1
NSEL,S,LOC,X                             ! SELECT CENTER NODE
NSEL,R,LOC,Y
PRNSOL,U,Z                               ! PRINT CENTER DEFLECTION
```