It's chosen a problem type: *Revolutions Shell*
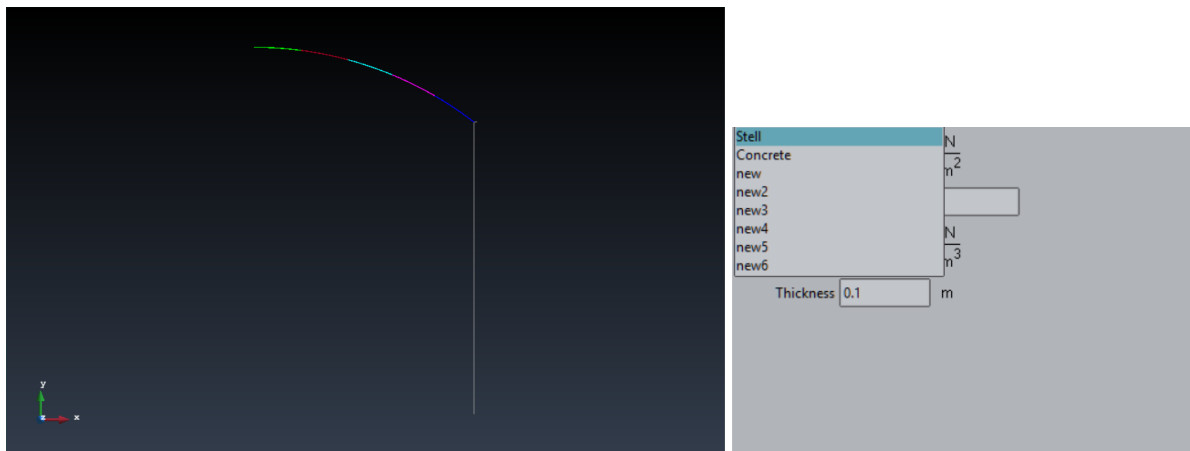
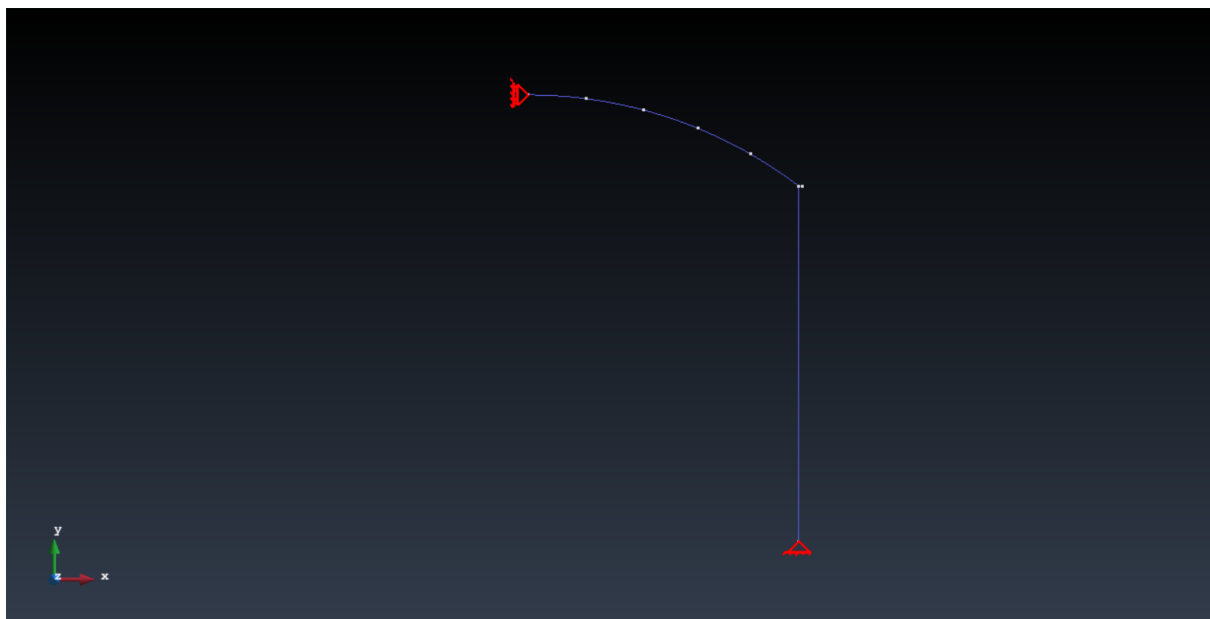Material, self weight condition, and constraints are settled.

$E=2,5*10^{10}$ *Pa*
$\nu=0,15$
$p=1*10^{4}$ *N/m²*

The cupola is divided in 5 elements, each with different thickness material associated, simulating a continuous variation of thickness from 0.12m to 0.30m.

The constraint are x-displacement 0 at top left (symmetry condition) and x,y-displacement is 0 at bottom.
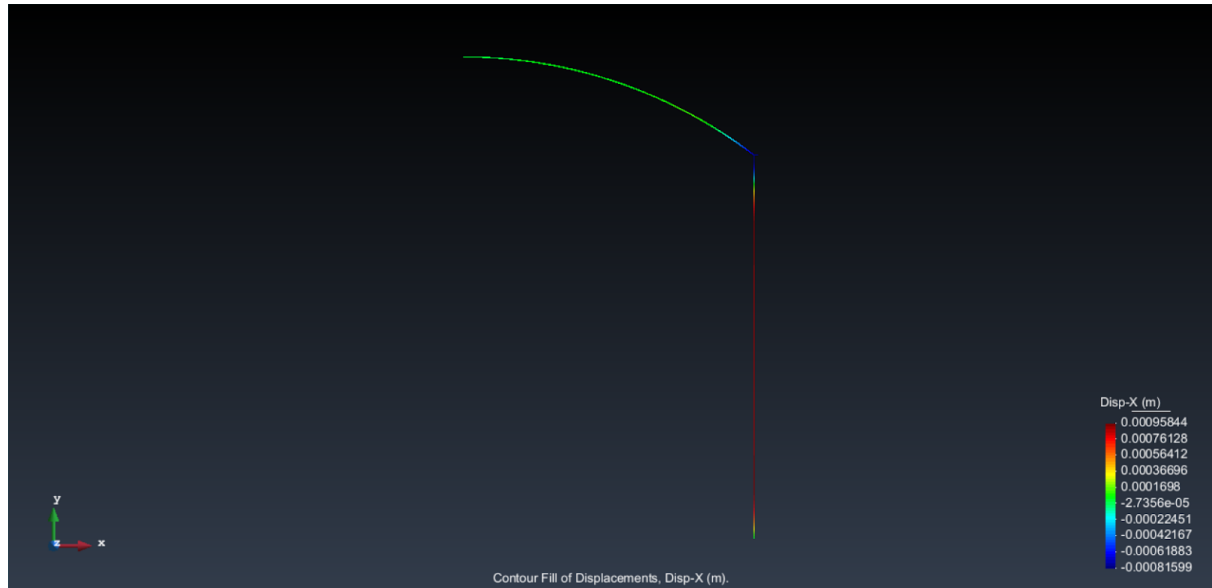
A tow-node element mesh is generated:
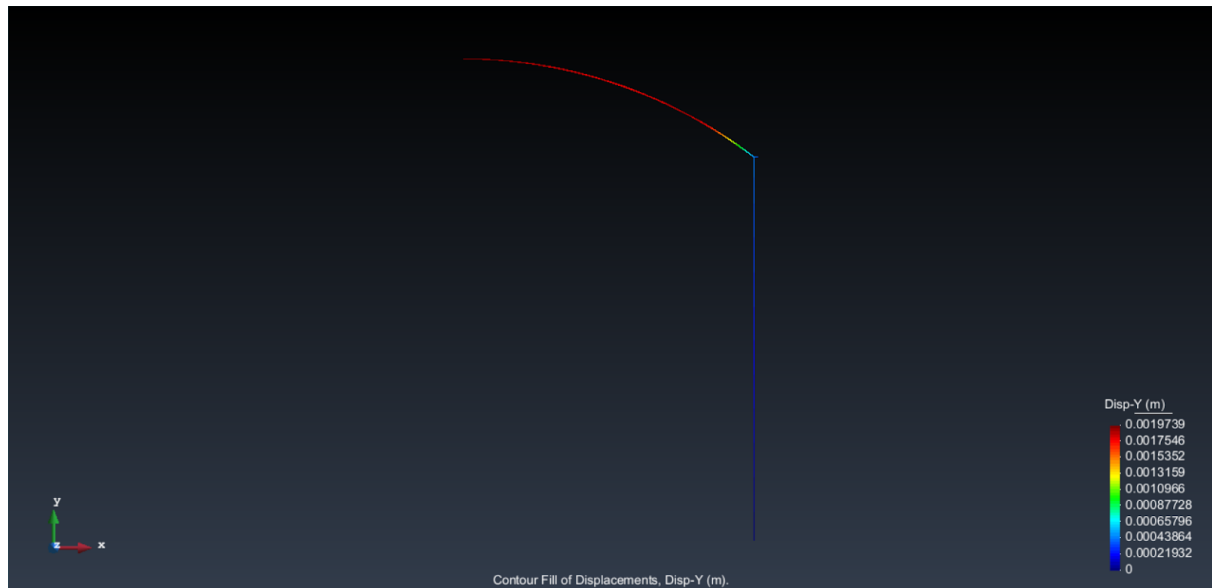
Num. of Linear elements=1125
Num. of nodes=1126

Displacements:
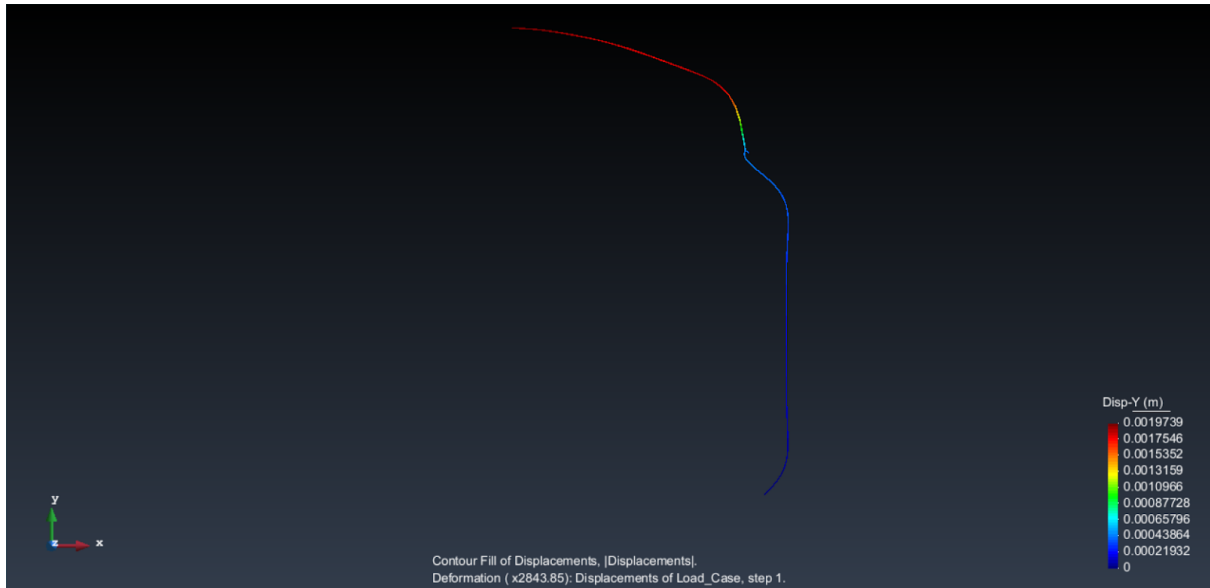
Almost 1mm on x-axis at the side of the vessel:

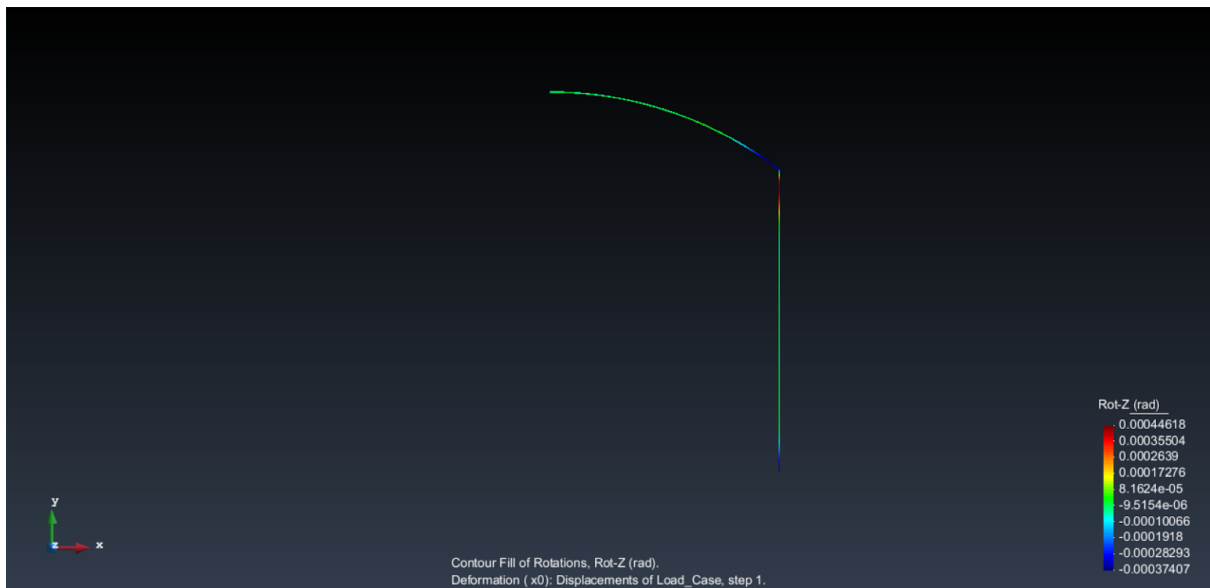*Almost 2 millimeters at the top of the vessel (y displacement):*

The shape seems quite as expected when scaled up:

Rotation in z axis:

When focusing this problem as a 3D we require COMPASS RAMSERIES professional version: