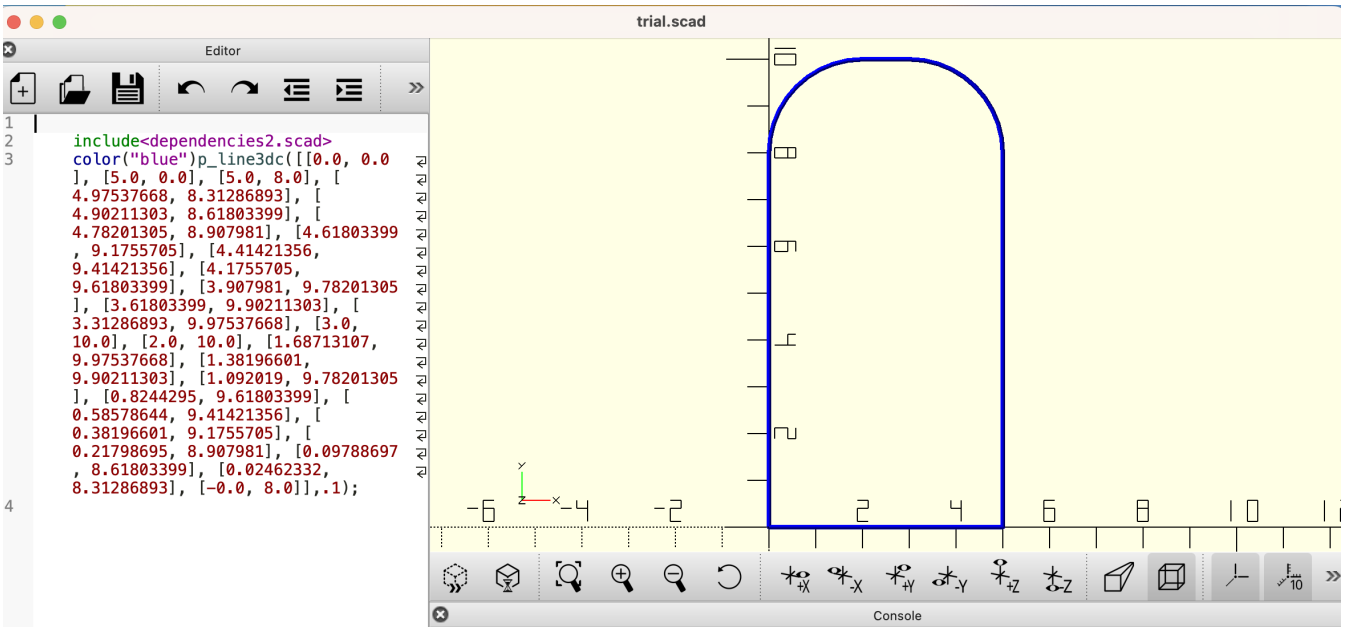
In [44]:
```
from openscad1 import *
```

Approach 1 (path extrude a section)

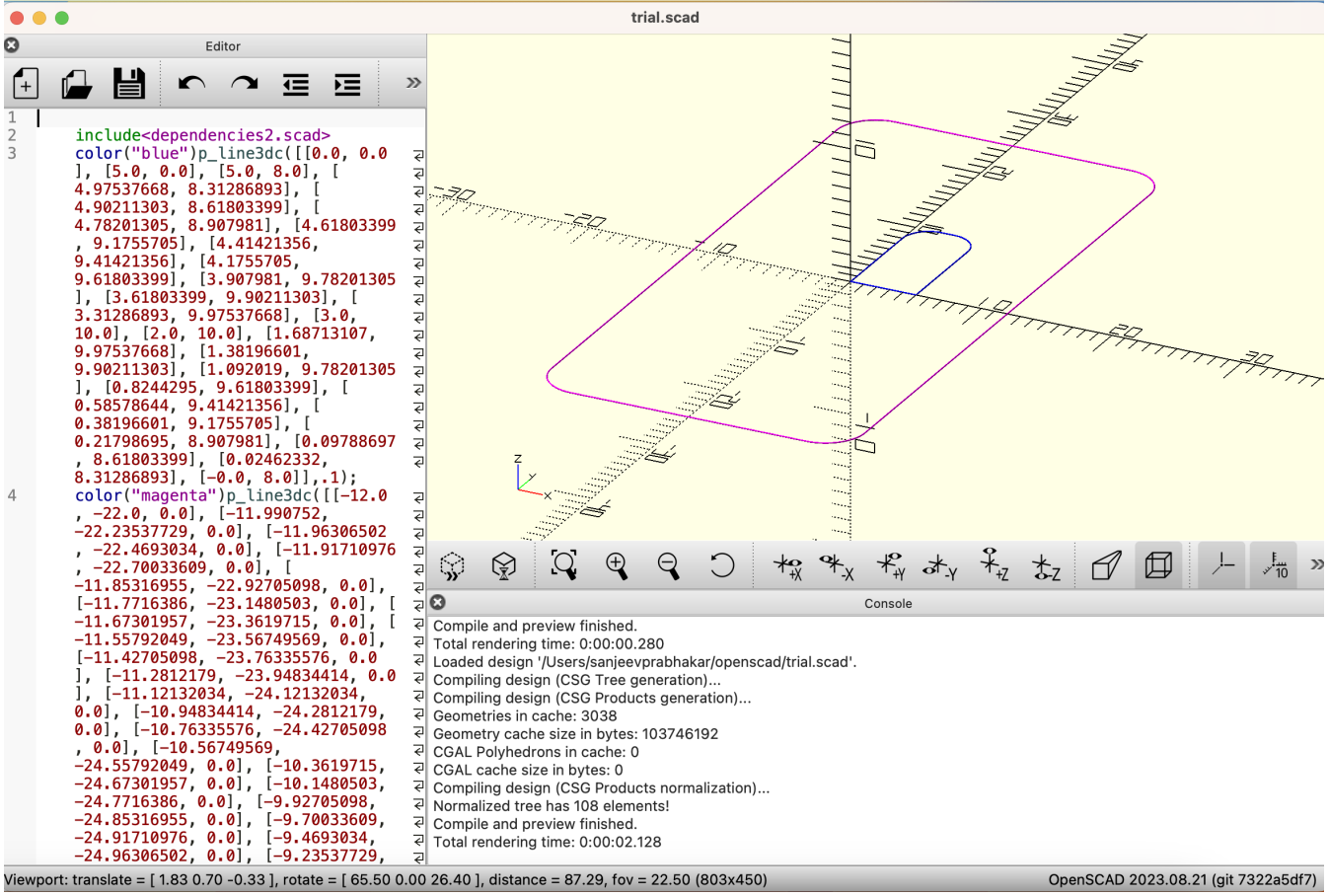
create a 2d section

In [45]:
```
sec=cr(pts1([[0,0],[5,0],[0,10,2],[-5,0,2]]),10)
with open('/users/sanjeevprabhakar/openscad/trial.scad','w+') as f:
    f.write(f'''
    include<dependencies2.scad>
    color("blue")p_line3dc({sec},.1);
    ''')
```



draw a path in 3d

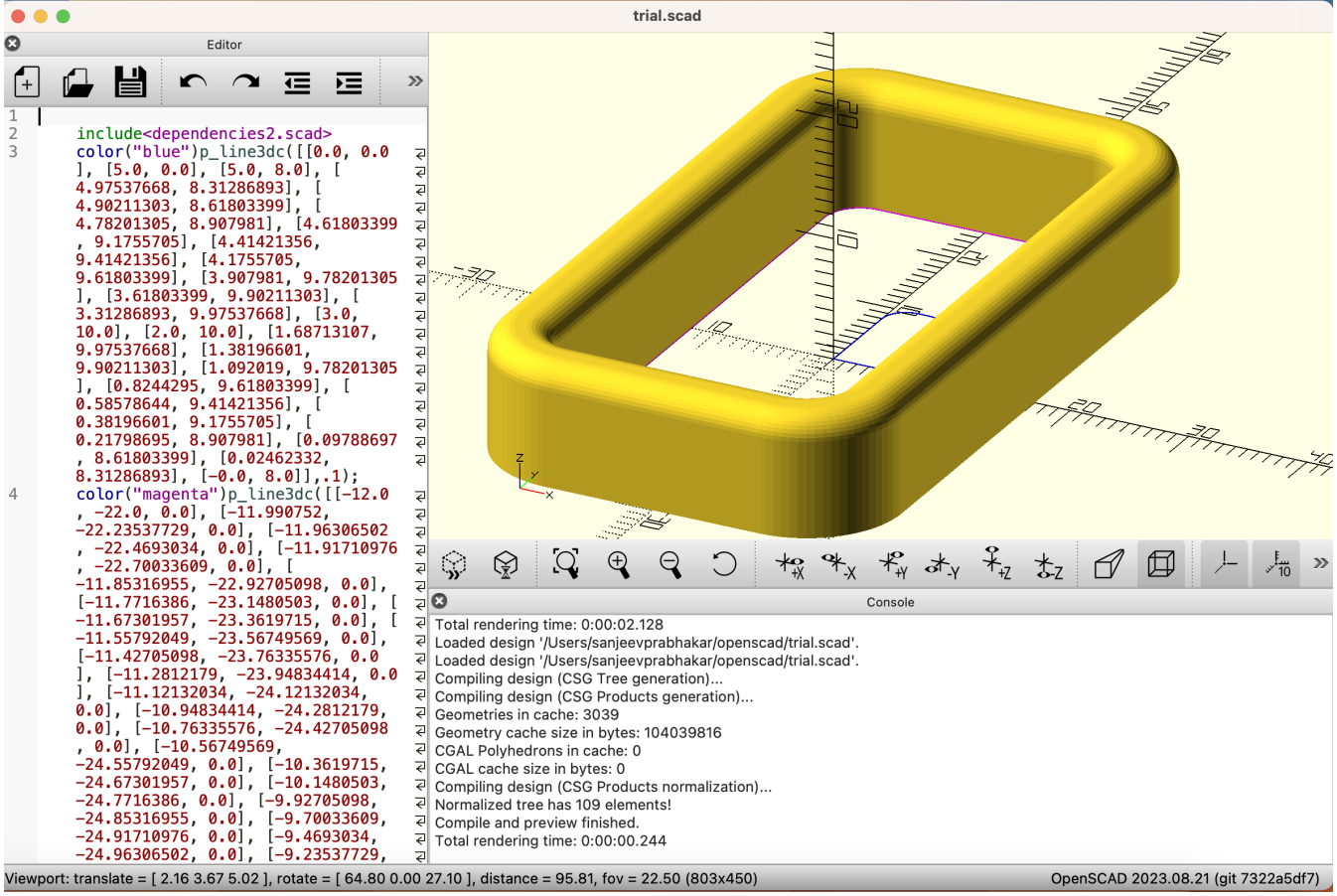
In [46]:
```
path=cr(pts1([[-12,-25,3],[24,0,3],[0,50,3],[-24,0,3]]))
path=c2t3(path)
with open('/users/sanjeevprabhakar/openscad/trial.scad','w+') as f:
    f.write(f'''
    include<dependencies2.scad>
    color("blue")p_line3dc({sec},.1);
    color("magenta")p_line3dc({path},.1);
    ''')
```



extrude the 2d section along a 3d path

In [47]:
```
sol=path_extrude_closed(sec,path)

with open('/users/sanjeevprabhakar/openscad/trial.scad','w+') as f:
    f.write(f'''
    include<dependencies2.scad>
    color("blue")p_line3dc({sec},.1);
    color("magenta")p_line3dc({path},.1);
    {swp(sol)}
    ''')
```


trial.scad
Editor
include<dependencies2.scad>
color("blue")p_line3dc([[0.0, 0.0
], [5.0, 0.0], [5.0, 8.0], [
4.97537668, 8.31286893], [
4.90211303, 8.61803399], [
4.78201305, 8.907981], [4.61803399
, 9.1755705], [4.41421356,
9.41421356], [4.1755705,
9.61803399], [3.907981, 9.78201305
], [3.61803399, 9.90211303], [
3.31286893, 9.97537668], [3.0,
10.0], [2.0, 10.0], [1.68713107,
9.97537668], [1.38196601,
9.90211303], [1.092019, 9.78201305
], [0.8244295, 9.61803399], [
0.58578644, 9.41421356], [
0.38196601, 9.1755705], [
0.21798695, 8.907981], [0.09788697
, 8.61803399], [0.02462332,
8.31286893], [-0.0, 8.0]],.1);
color("magenta")p_line3dc([[-12.0
, -22.0, 0.0], [-11.990752,
-22.23537729, 0.0], [-11.96306502
, -22.4693034, 0.0], [-11.91710976
, -22.70033609, 0.0], [
-11.85316955, -22.92705098, 0.0],
[-11.7716386, -23.1480503, 0.0], [
-11.67301957, -23.3619715, 0.0], [
-11.55792049, -23.56749569, 0.0],
[-11.42705098, -23.76335576, 0.0
], [-11.2812179, -23.94834414, 0.0
], [-11.12132034, -24.12132034,
0.0], [-10.94834414, -24.2812179,
0.0], [-10.76335576, -24.42705098
, 0.0], [-10.56749569,
-24.55792049, 0.0], [-10.3619715,
-24.67301957, 0.0], [-10.1480503,
-24.7716386, 0.0], [-9.92705098,
-24.85316955, 0.0], [-9.70033609,
-24.91710976, 0.0], [-9.4693034,
-24.96306502, 0.0], [-9.23537729,
Console
Total rendering time: 0:00:02.128
Loaded design '/Users/sanjeevprabhakar/openscad/trial.scad'.
Loaded design '/Users/sanjeevprabhakar/openscad/trial.scad'.
Compiling design (CSG Tree generation)...
Compiling design (CSG Products generation)...
Geometries in cache: 3039
Geometry cache size in bytes: 104039816
CGAL Polyhedrons in cache: 0
CGAL cache size in bytes: 0
Compiling design (CSG Products normalization)...
Normalized tree has 109 elements!
Compile and preview finished.
Total rendering time: 0:00:00.244
Viewport: translate = [2.16 3.67 5.02], rotate = [64.80 0.00 27.10], distance = 95.81, fov = 22.50 (803x450)
OpenSCAD 2023.08.21 (git 7322a5df7)