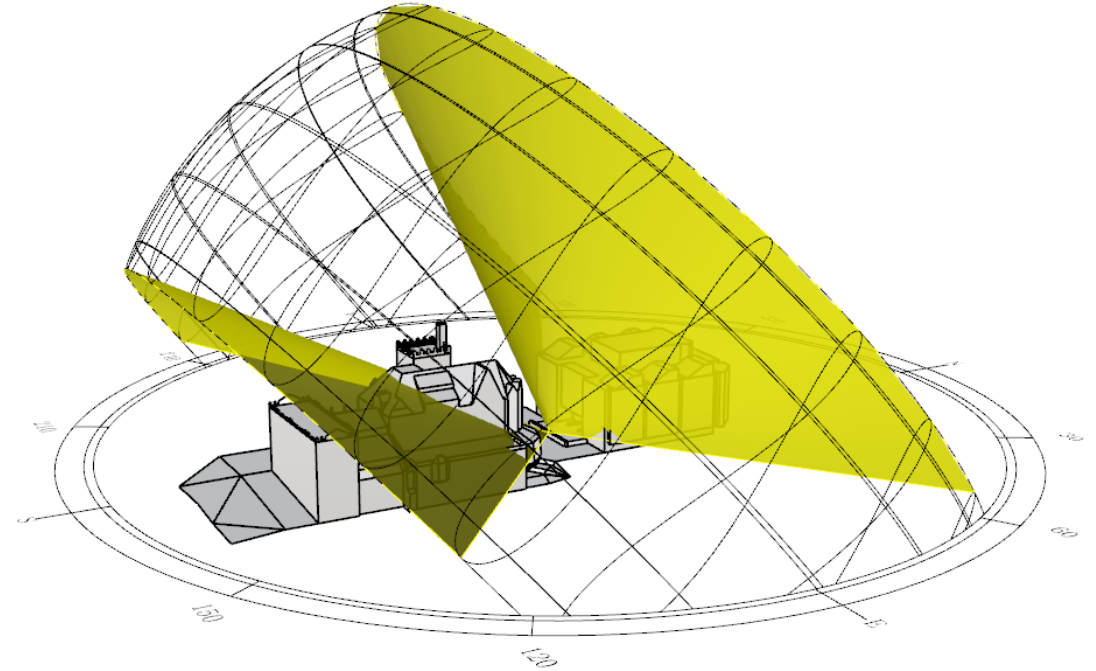
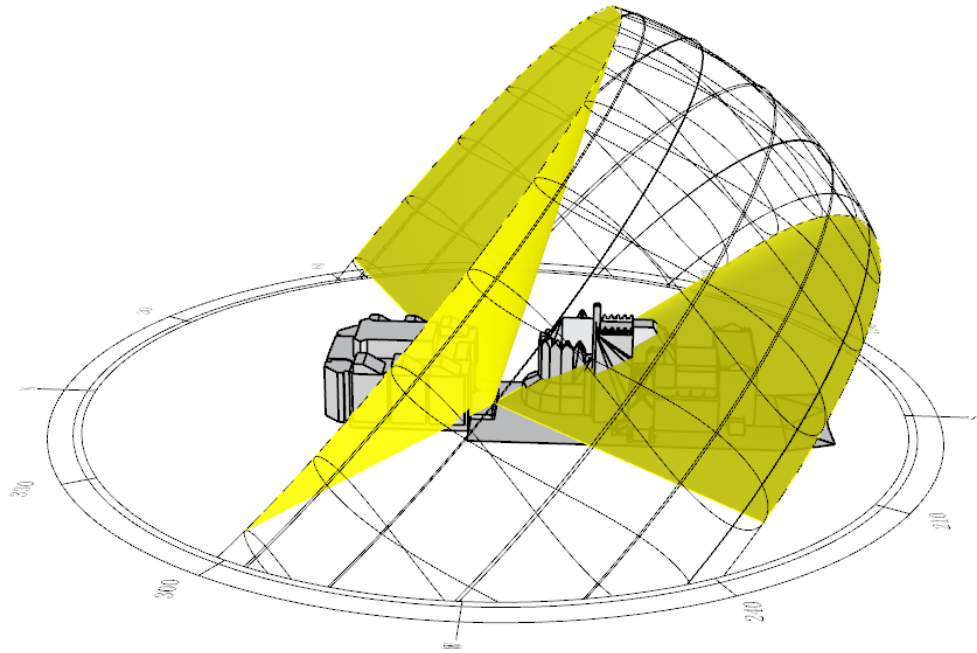


# **SHADE BENEFIT DESIGN**

*for Meyerson Hall Outdoor Seating*

ARCH 753 Building Performance Simulation  
Prof. Mostapha Sadeghipour  
Mingbo Peng – Fall 2015

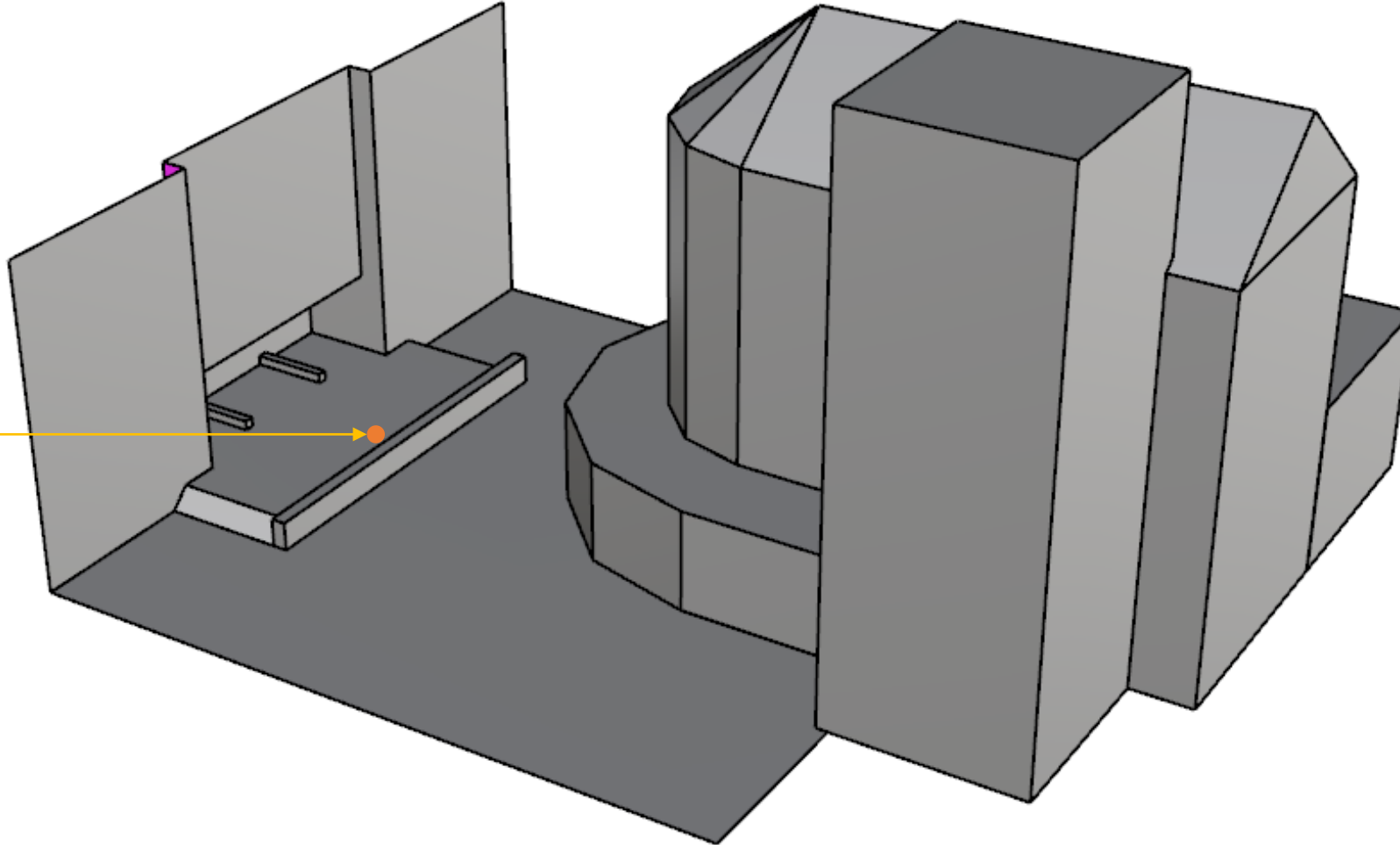
## SUNPATH STUDY



A sun-path study was executed for identifying shade-casting parts of current models, as a further simplified model is needed for accelerating simulation speed.

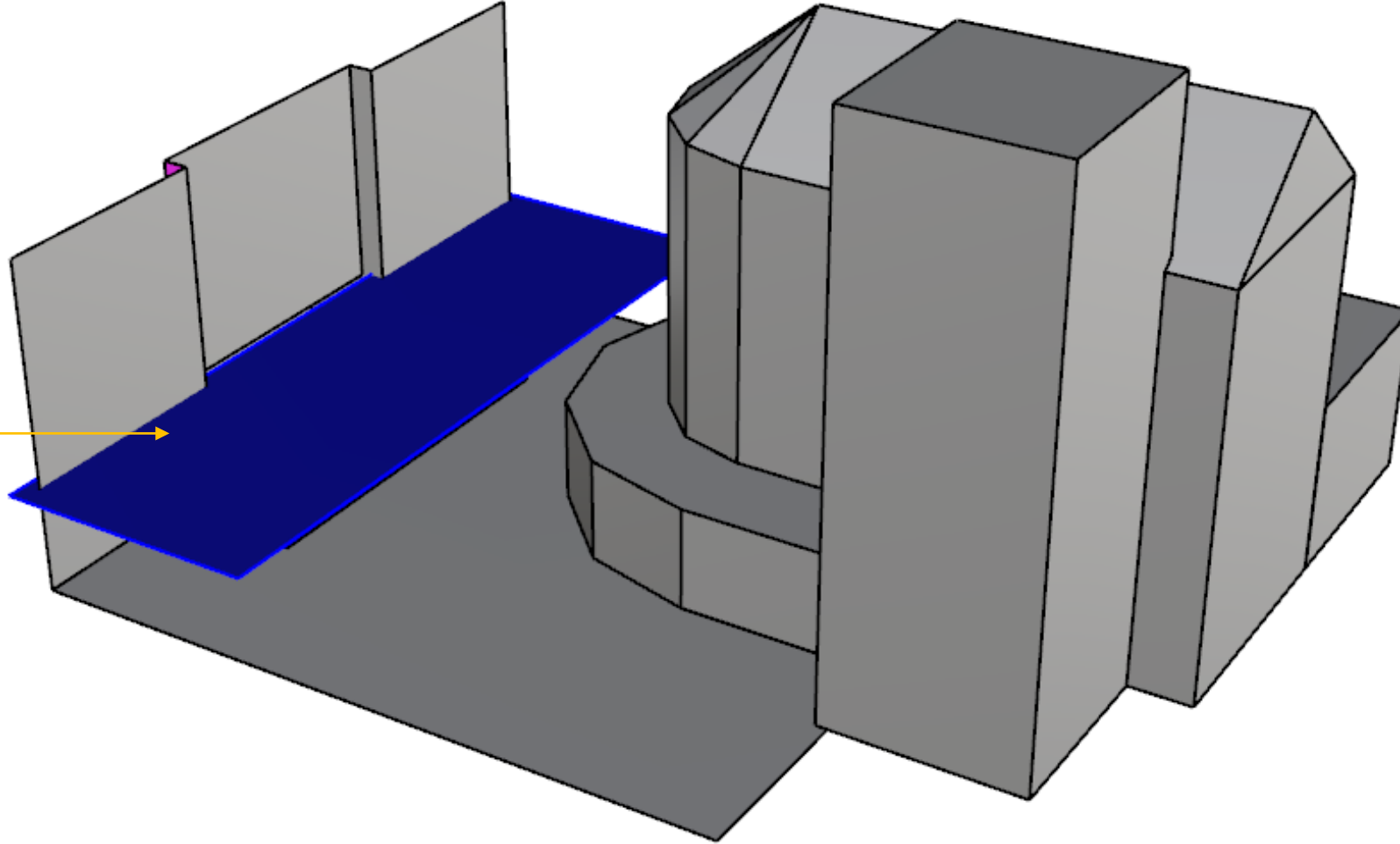
## SIMPLIFIED CONTEXT

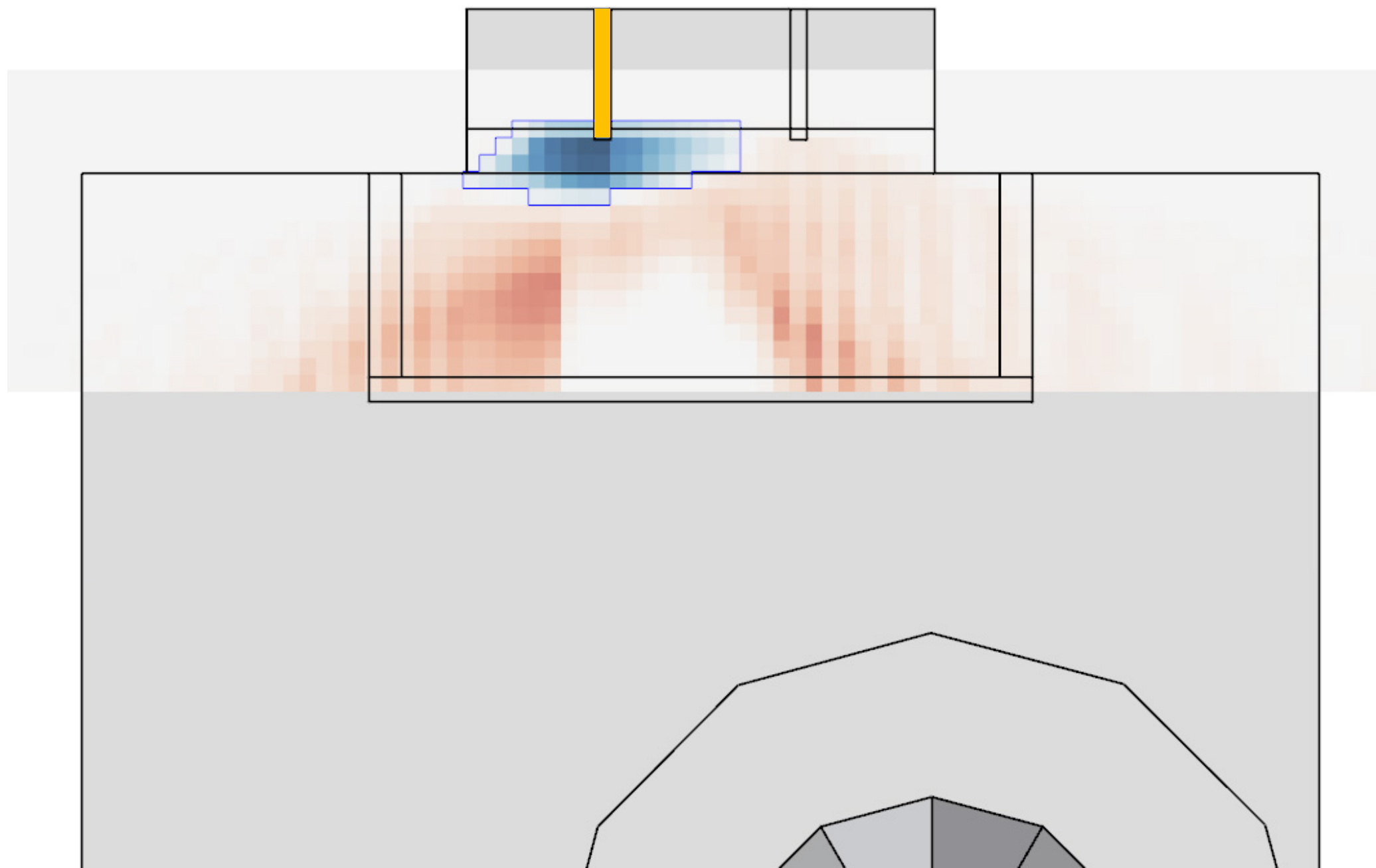
**TEST BODY LOCATION**  
38% Comfort hours

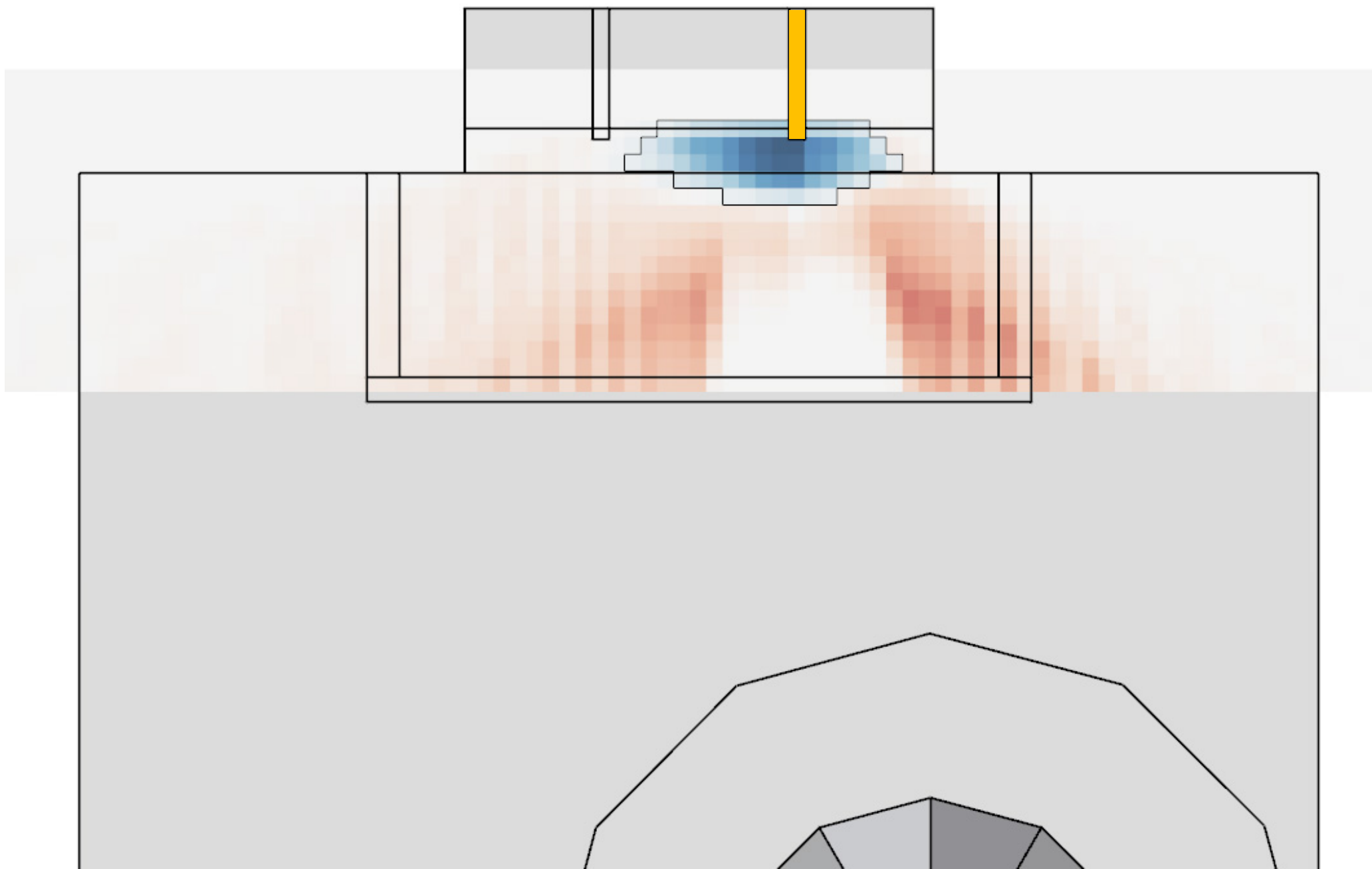


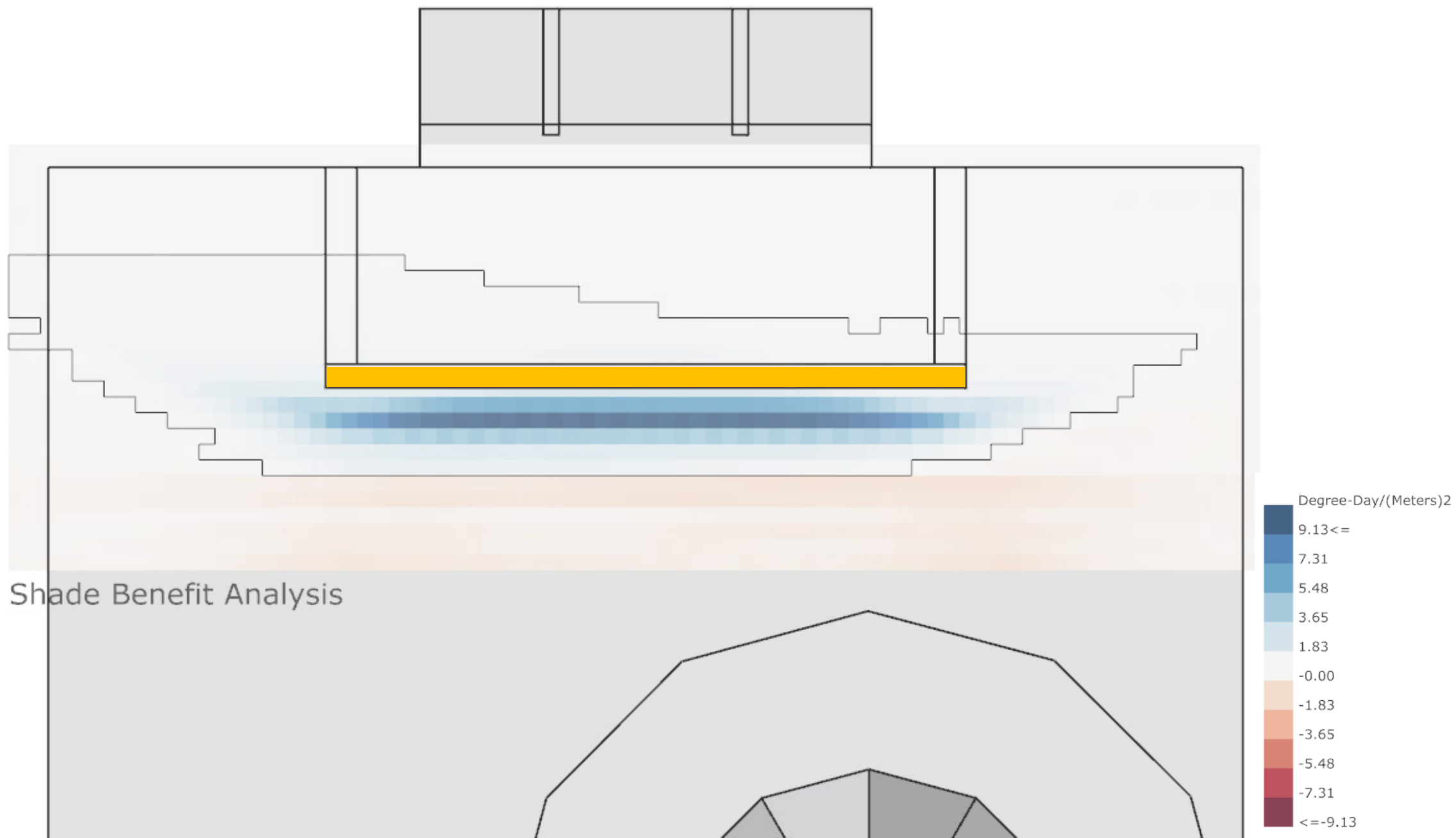
## TEST SHADING PLAN

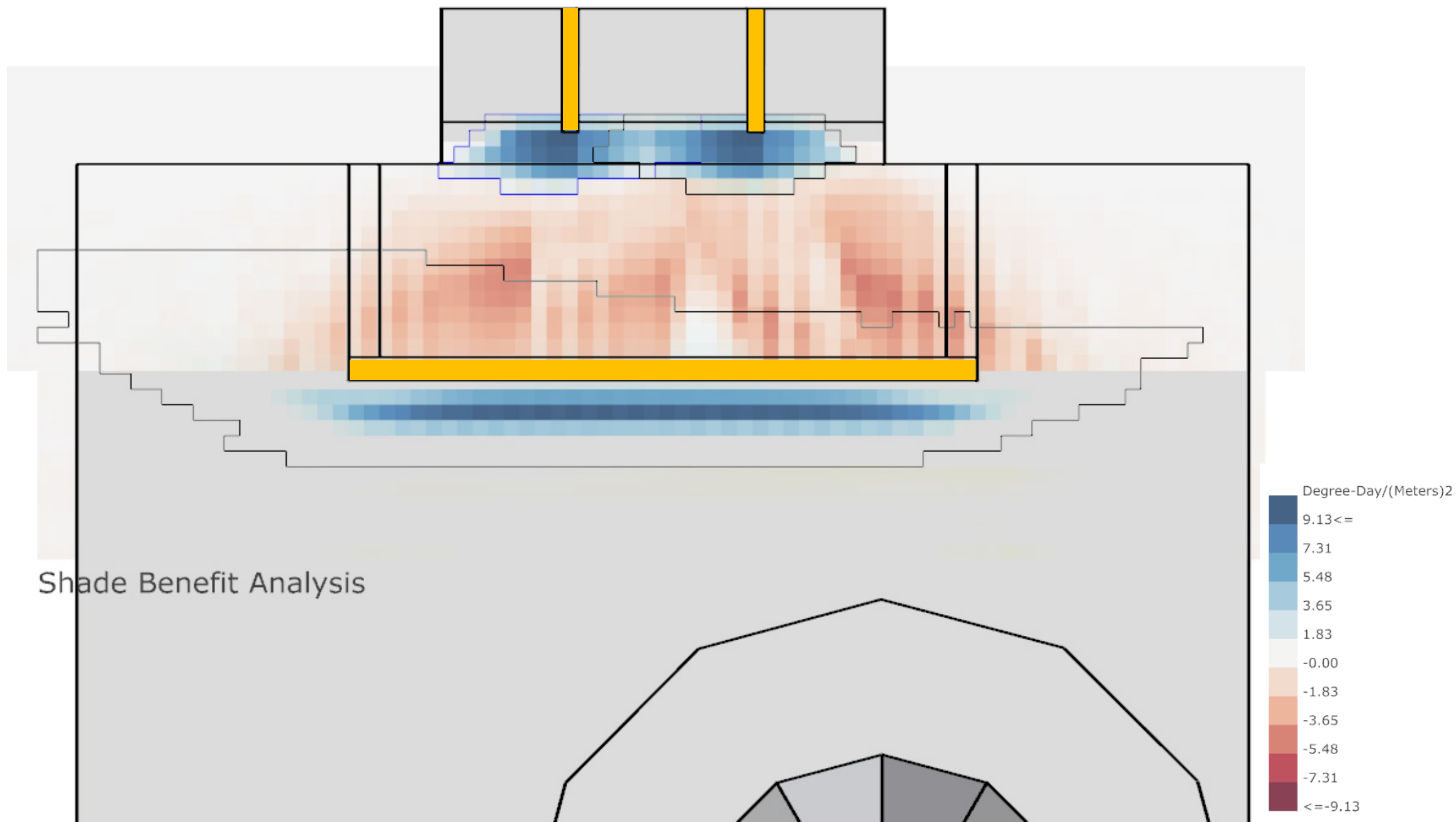
TEST SHADING PLAN  
Height: 5.5 m



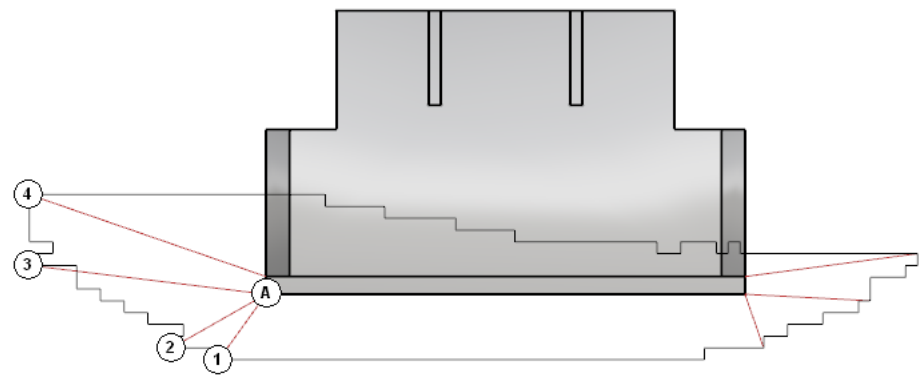




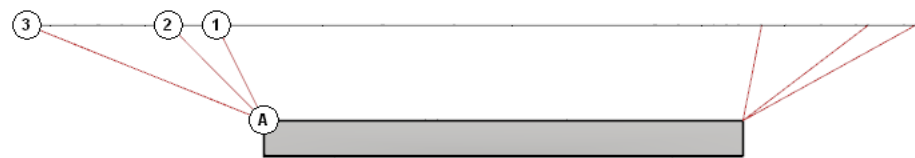




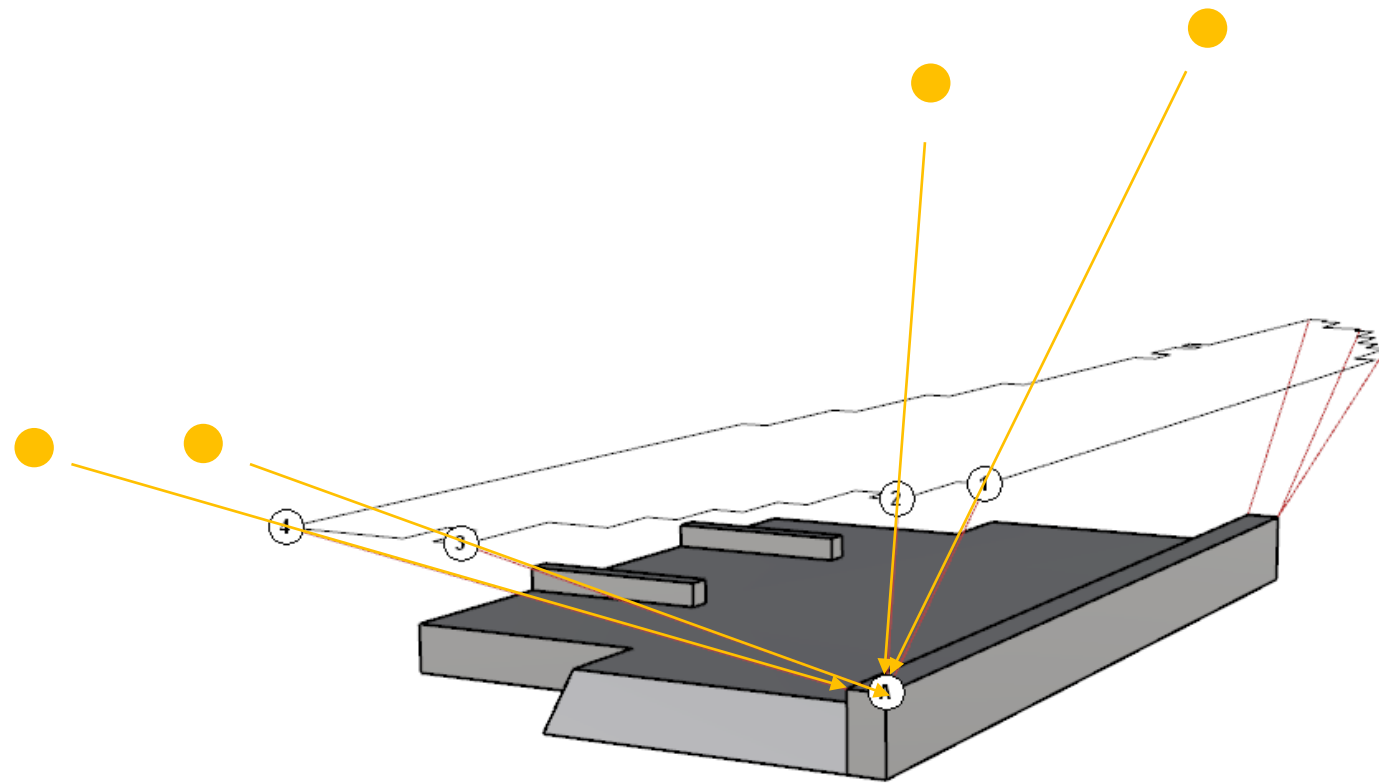




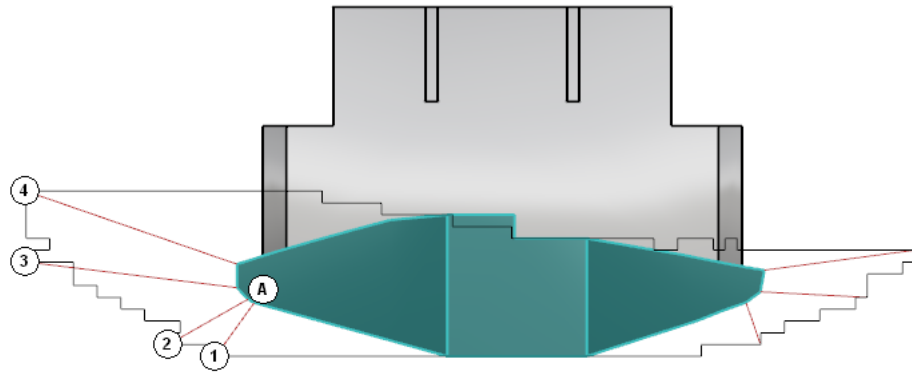
Top View



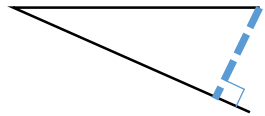
Front View



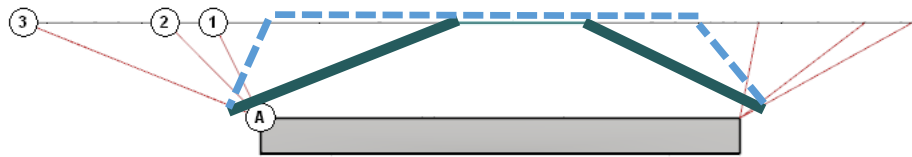
Perspective



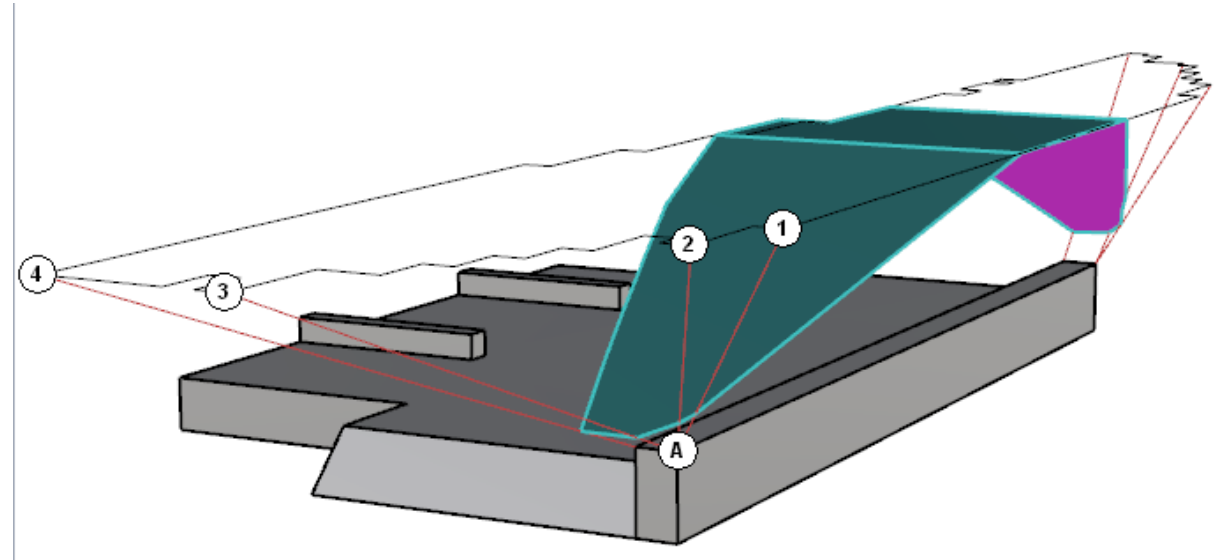
Top View



THE SHORTEST LENGTH



Front View



Perspective

**THE TOTAL AREA:** 118 m<sup>2</sup>  
vs: 210 m<sup>2</sup>

**COMFORT HOURS:**  
42.35% vs 38%

