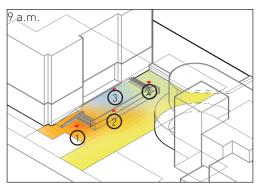
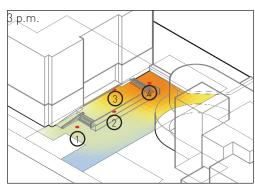
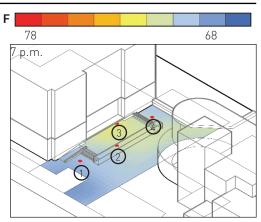
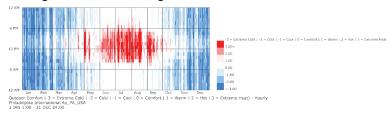
Location & Original Data - Location 1





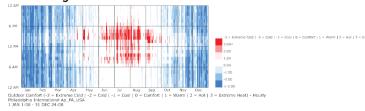


Origin without shading

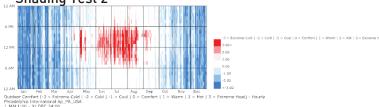


Comfortable: 38.47%; Short period comfortable: 19.21%; Heat stress: 9.83%; Cold stress: 32.49%

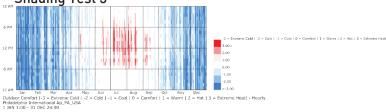
Shading Test 1



Shading Test 2



Shading Test 3



Comfortable: 40.88%; Short period comfortable: 21.2%; Heat stress: 3.62%; Cold stress: 34.3%

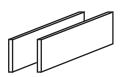
Canopy:

Comfortable: 40.31% + Short Period Comf:20.3%



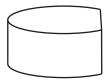
Side-Wall:

Comfortable: 37.58% + Short Period Comf:20.26%



Chamber:

Comfortable: 40.88% + Short Period Comf:21.2%



Conclusion:

100% comfort is not achievable. In my test model, the highest percentage is 40.88%+ 21.2%=62.02%. It is not achievable for some reasons. Based on the graphic and data, we see cold stress a lot. It is hard to eliminate by providing shading design. As well as in GH definition. My object can only affect the MRT, which is only 1 factor of 4. Therefore, it can not fundamentally change the comfort condition.