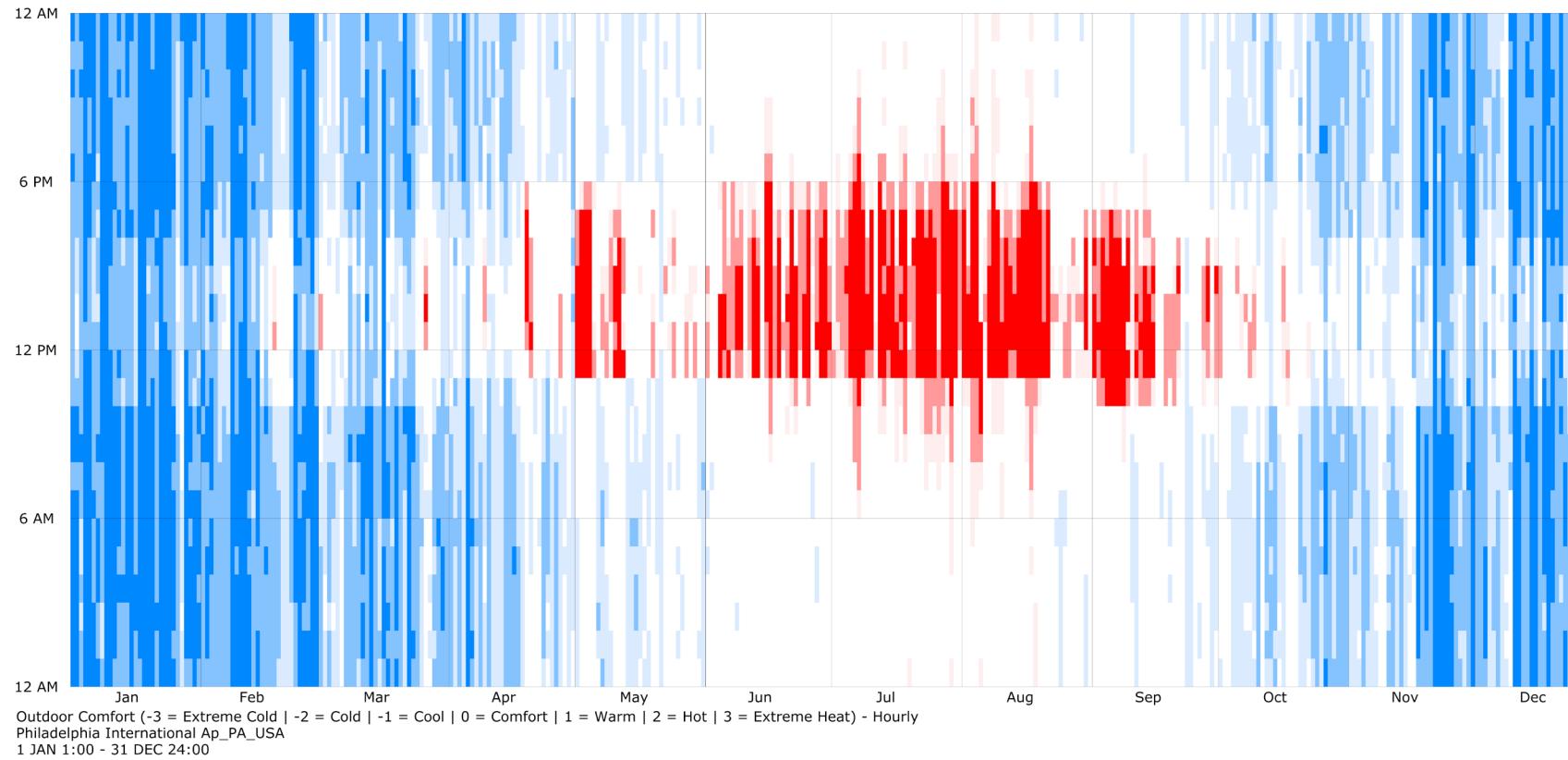


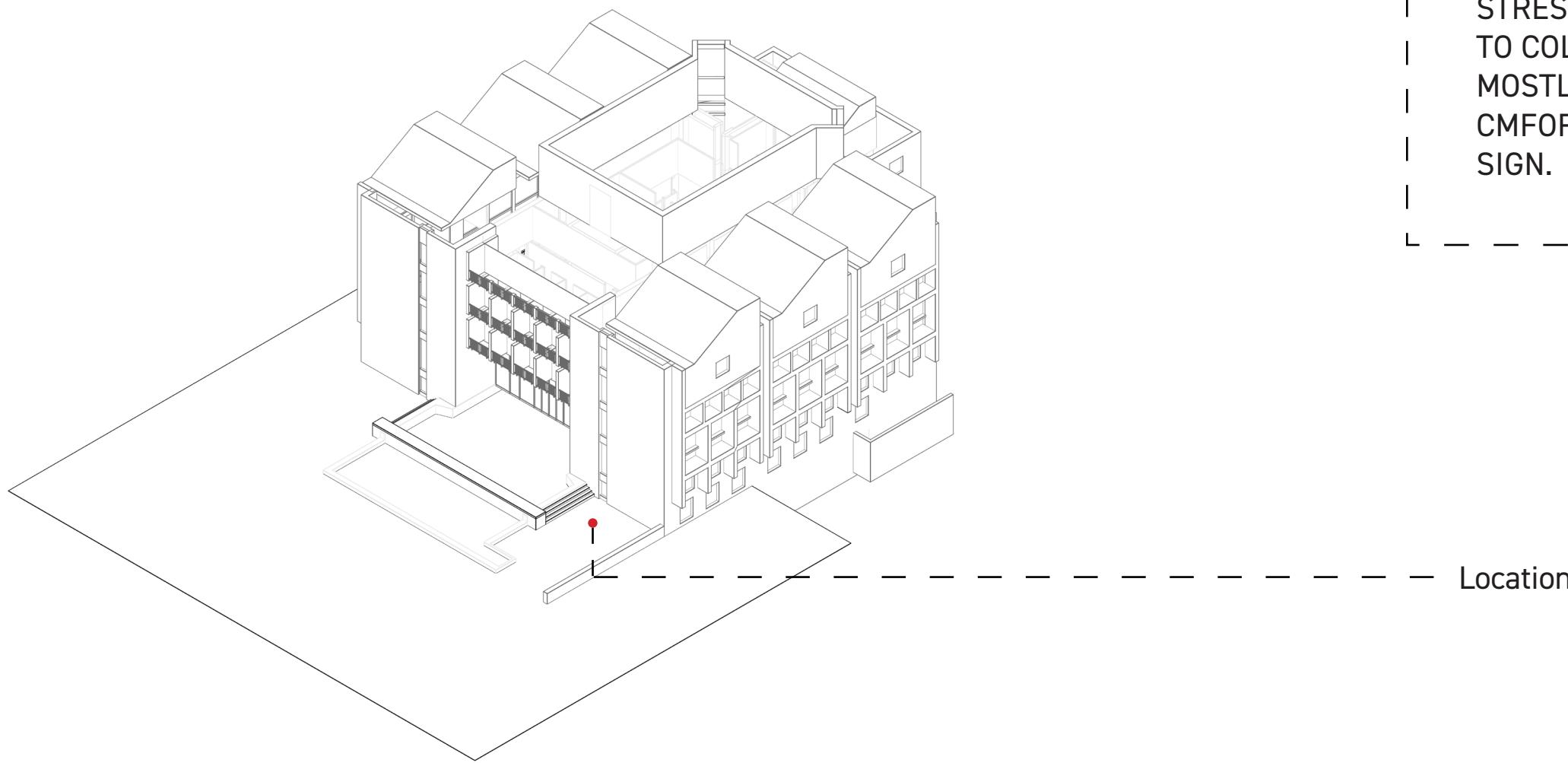
# LOCATION ANALYSIS WITHOUT SHADING DESIGN



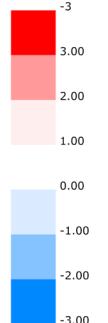
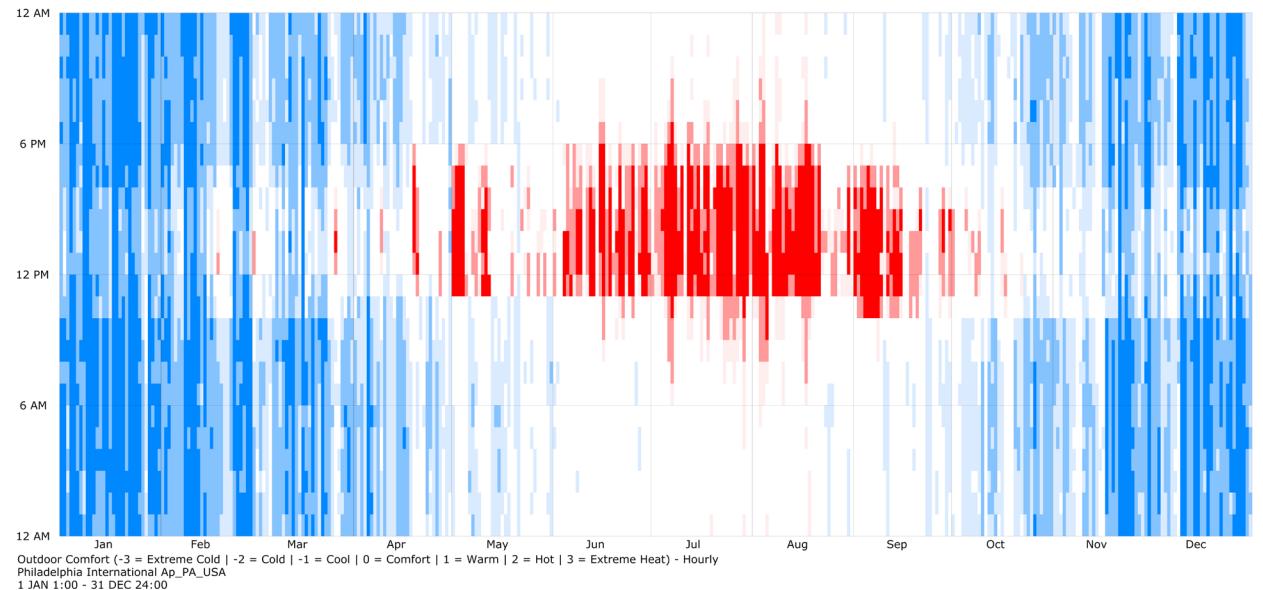
Comfortable 39.18%  
Short Period comf. 19.69%  
Heat Stress 8.11%  
Cold Stress 33.03%



**SUMMARY:**  
  
BASED ON THE STUDY, THE SHADING DESIGNS IMPACT MOSTLY ON THE RADIATION, WHICH CAN REDUCE THE HEAT STRESS RATIO, BUT HAVE NO CONTROL TO COLD STRESS. THEREFORE, IT IS MOSTLY IMPOSSIBLE TO ACHIEVE 100% CMFORTABLE BY ADDING A SHADING DESIGN.

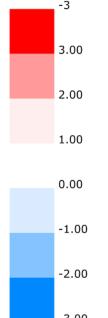
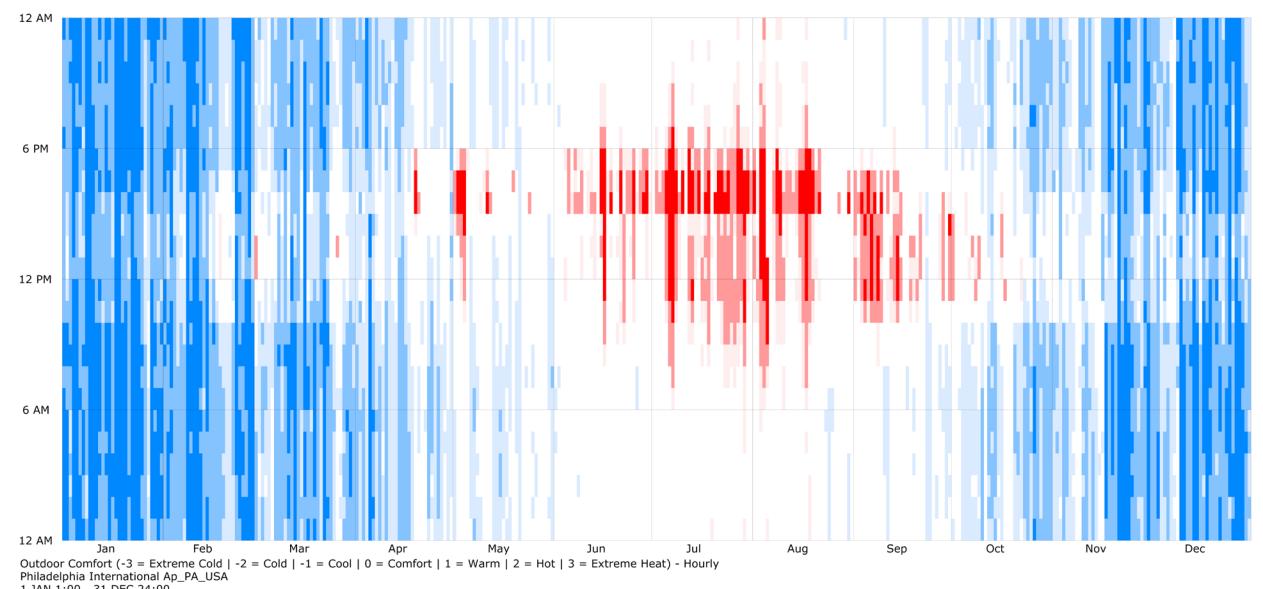
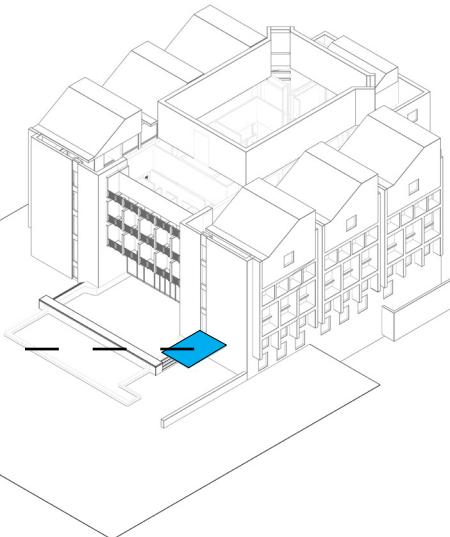


## LOCATION ANALYSIS WITH SHADING DESIGNS

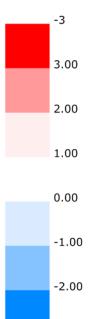
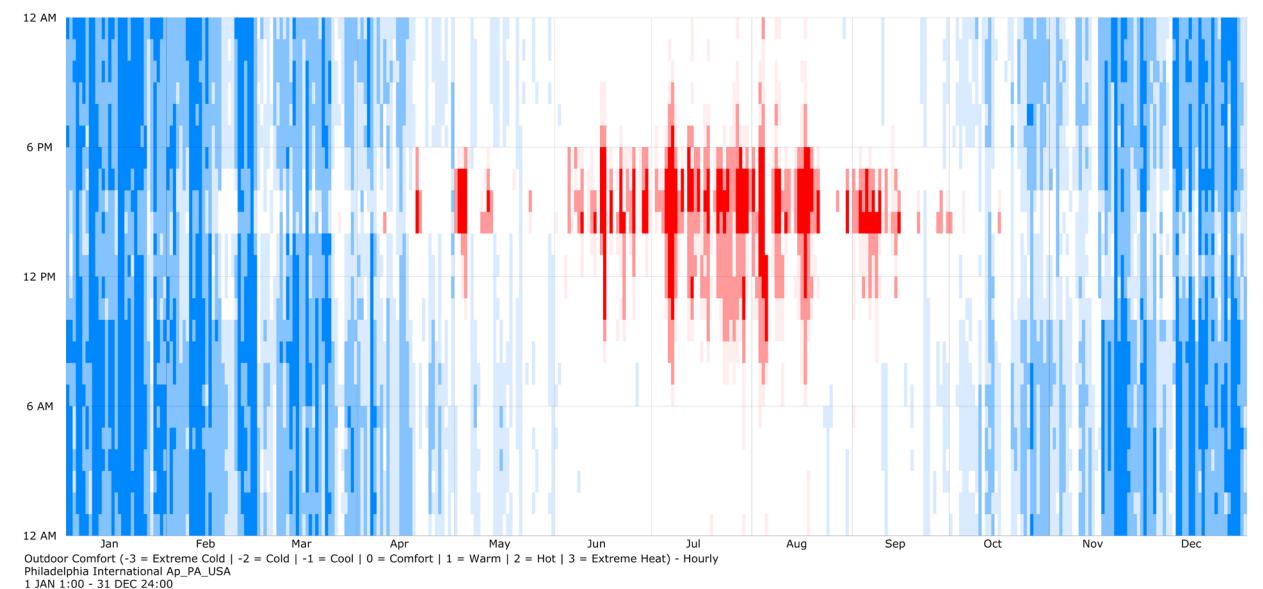
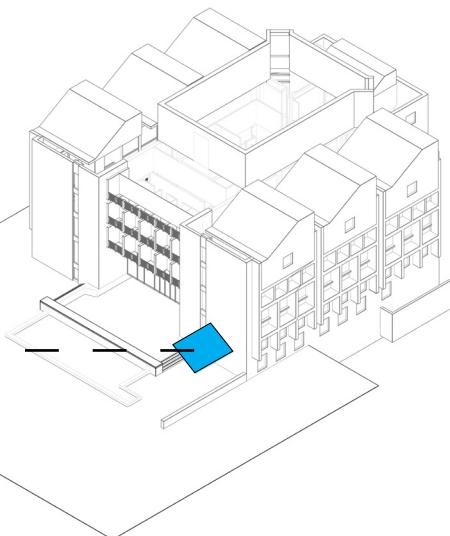


Comfortable 41.48%  
Short Period comf. 21.12%  
Heat Stress 4.34%  
Cold Stress 33.06%

Shading Design #1



Shading Design #2



Shading Design #3

