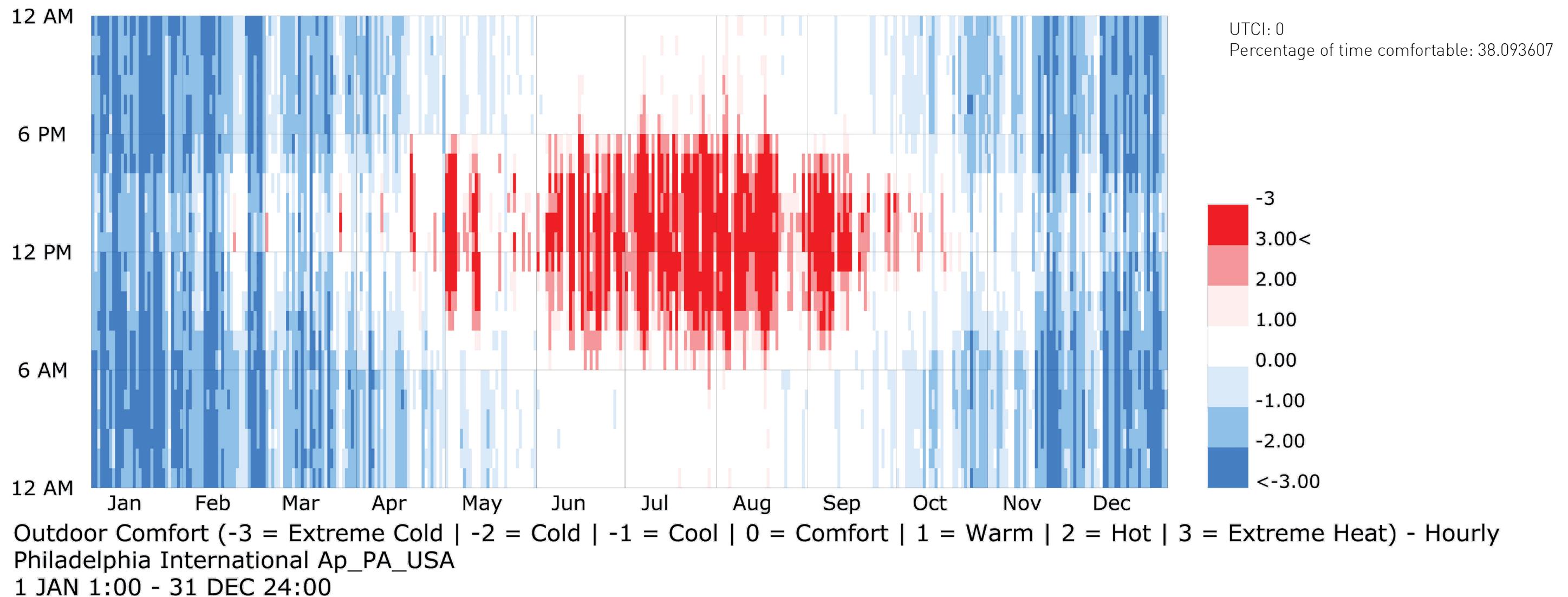


ENVIRONMENTAL SYSTEMS I

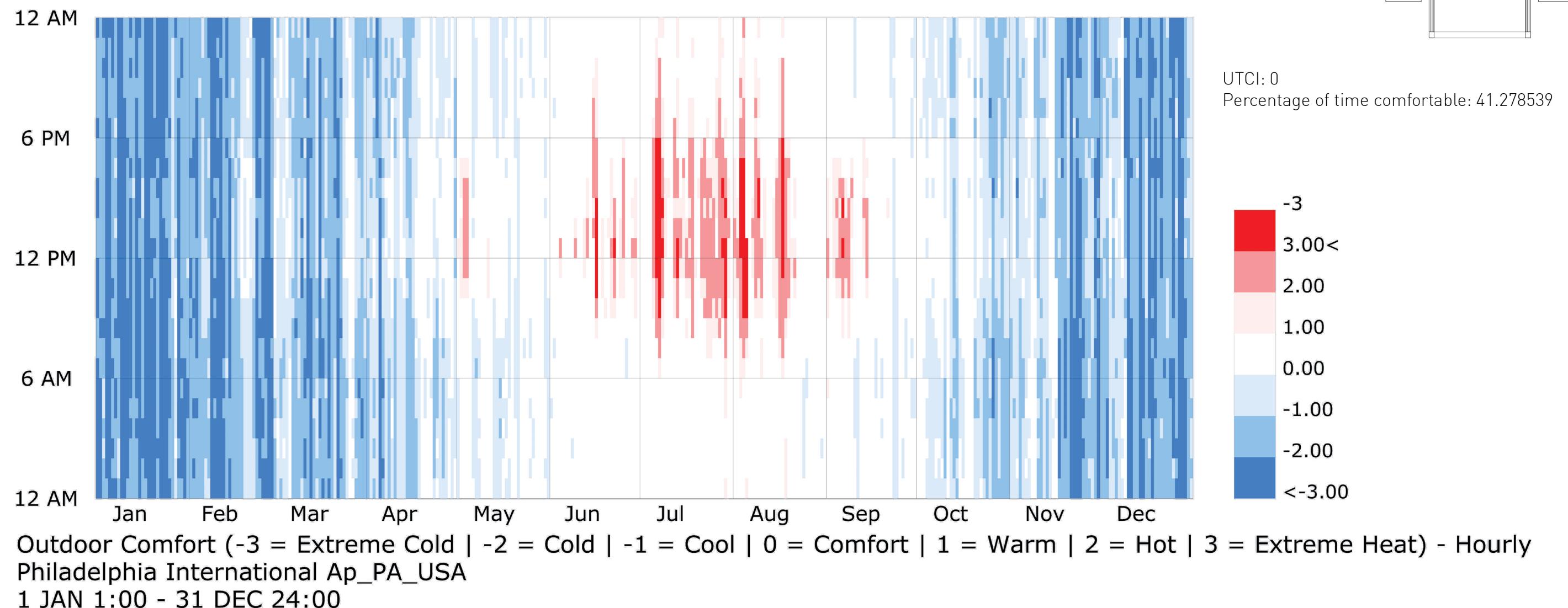
ASSIGNMENT 5: Meyerson Hall Outdoor Space Thermal Comfort Analysis

Ting Su

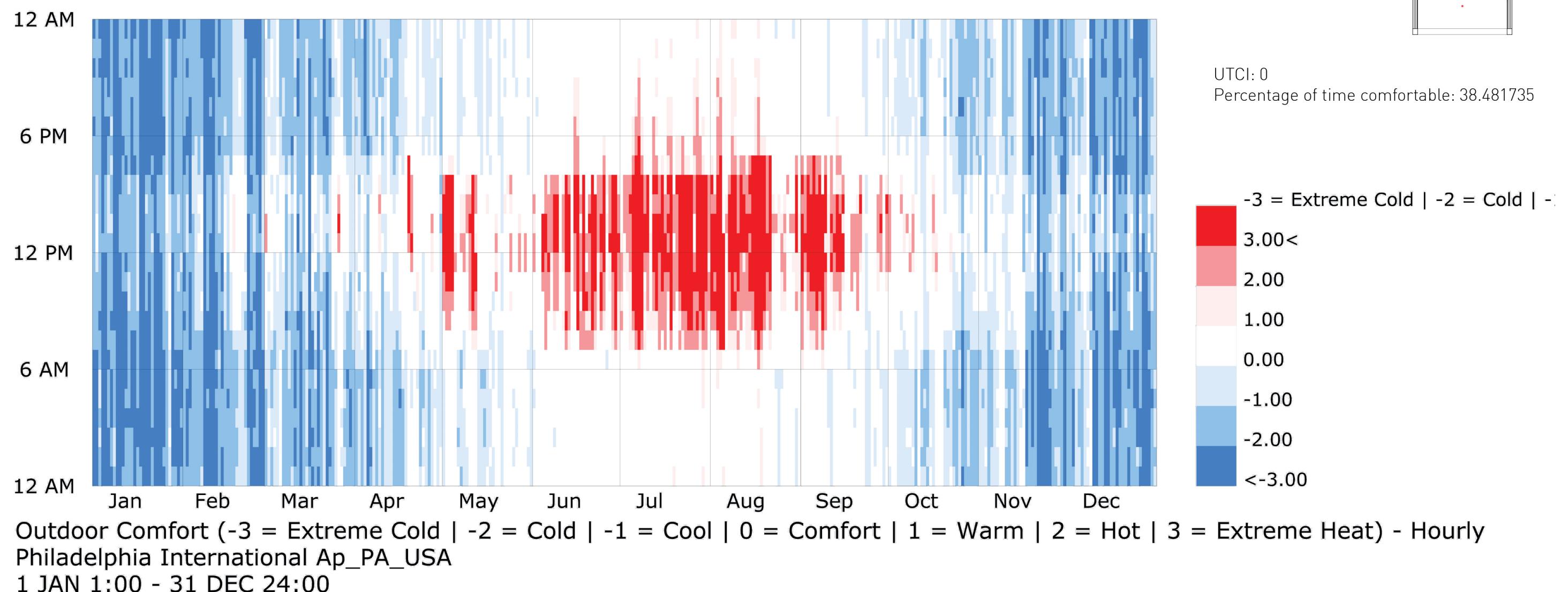
POSITION A



POSITION B



POSITION C



THINKING PROCESS

A good sitting area should have the ability to avoid sun glare and have proper shading. Also, the sitting area shouldn't block circulation. Follow by these rules, I choose A B and C either adjacent to walls or avoid main circulation passage.

DIFFERENCE BETWEEN THE BEST AND WORST LOCATIONS

Position B seems to have the best percentage of time comfortable, position A seems to be the worst location to put sitting area. The main difference is that position B is closed to walls which the walls can provide shading for the seating area while position A don't have any shading equipment. Thus during summer time, position B have less direct sunlight which reduce extreme heat and sunlight glare, during winter time the percentage of time comfort is better than position A is also maybe cause by those walls. The heat remain in the corner and the thermal comfort is relatively high than position A.

EFFECTIVE PARAMETERS THAT MAKE THE BEST LOCATION

The wall become shading device during summer time and heat container in winter time.

MAIN LIMITATION

The main limitaion is that there's no shading device for these area to avoid afternoon overheat exposure and direct sun glare.