

QUAIN COURTYARD

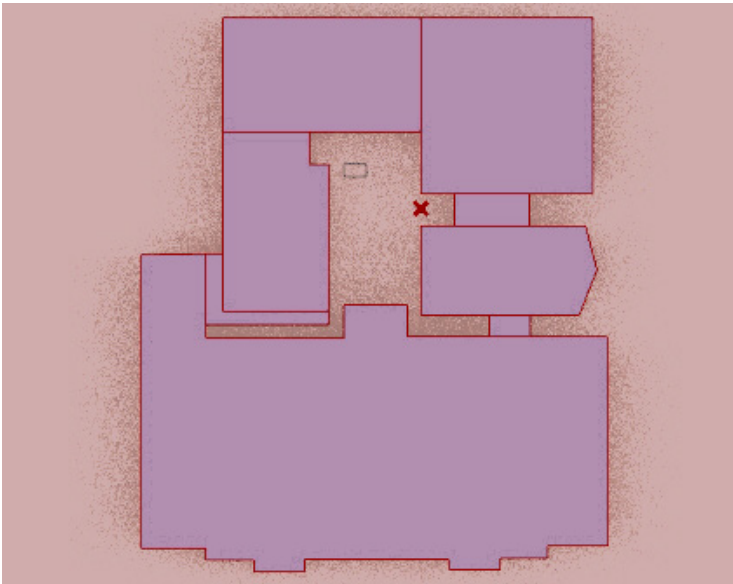
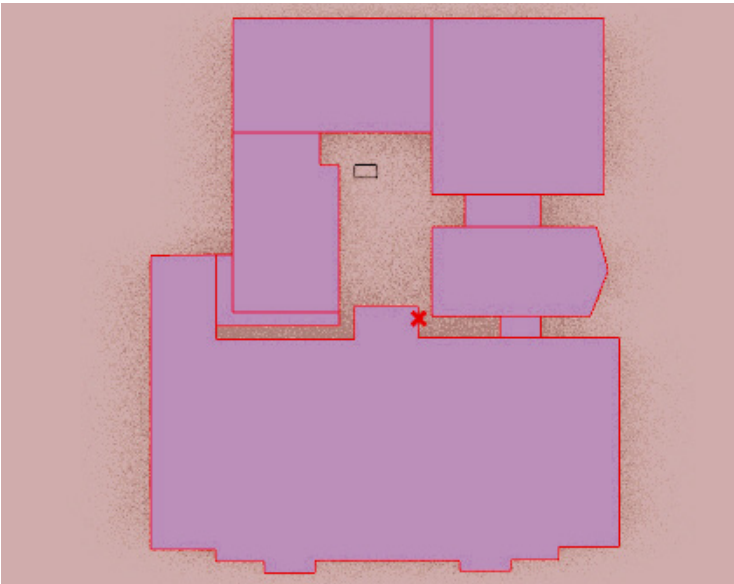
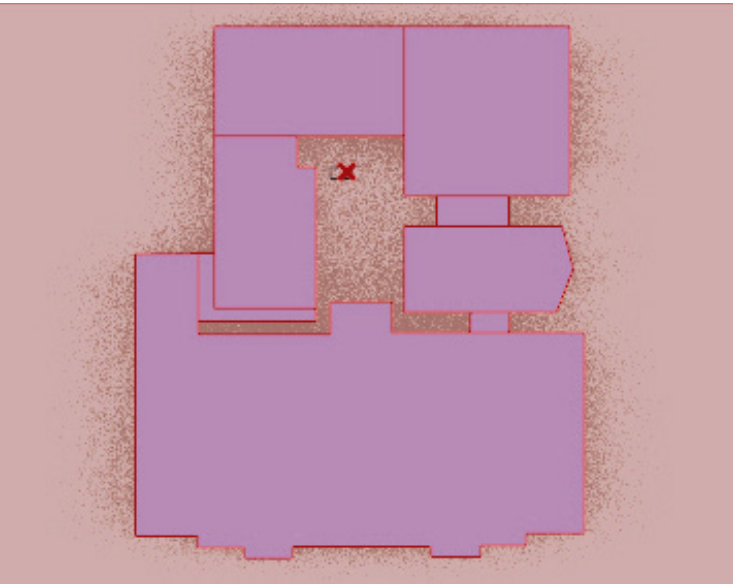
OUTDOOR COMFORT MAP

LOCATION: NW BENCH

LOCATION: SW AISLE

LOCATION: SE AISLE

LOCATION: EAST STAIR

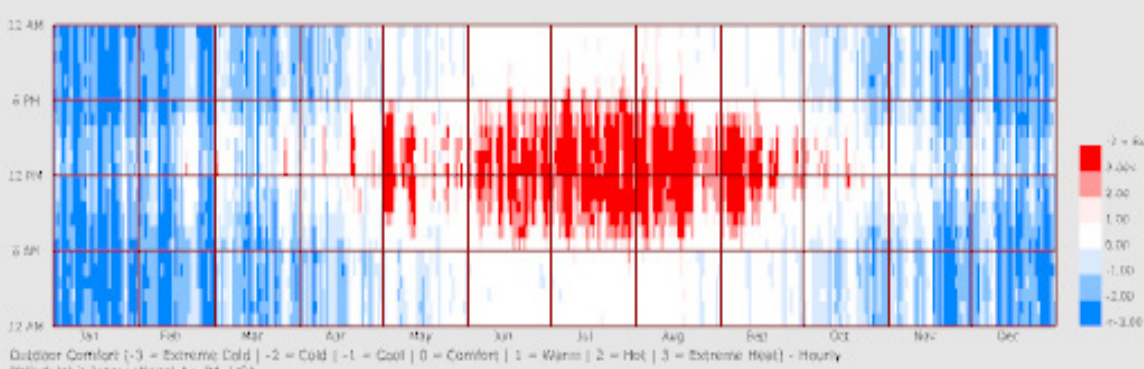


PERCENTAGE OF COMFORTABLE HOURS:
37.39
PERCENTAGE COMFORTABLE SHORT PERIOD:
18.41
HEAT STRESS:
12.39
COLD STRESS:
31.79

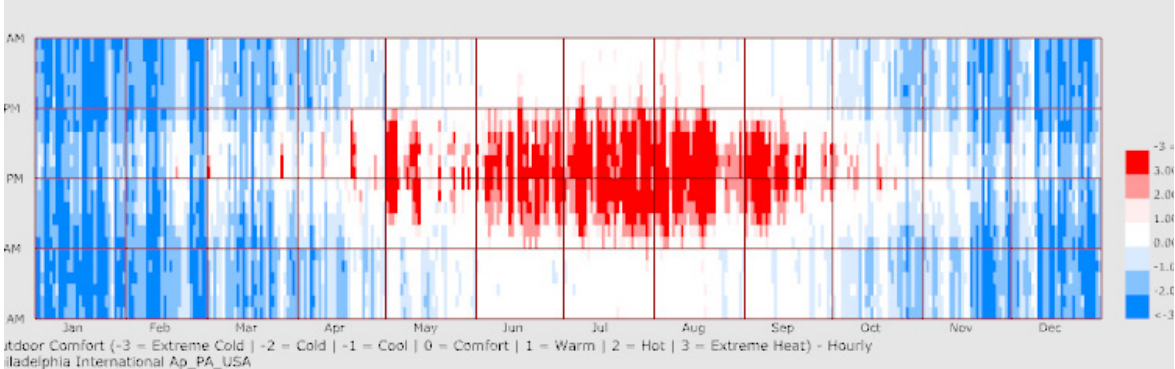
PERCENTAGE OF COMFORTABLE HOURS:
37.34
PERCENTAGE COMFORTABLE SHORT PERIOD:
18.57
HEAT STRESS:
12.20
COLD STRESS:
31.88

PERCENTAGE OF COMFORTABLE HOURS:
37.29
PERCENTAGE COMFORTABLE SHORT PERIOD:
18.61
HEAT STRESS:
12.21
COLD STRESS:
31.87

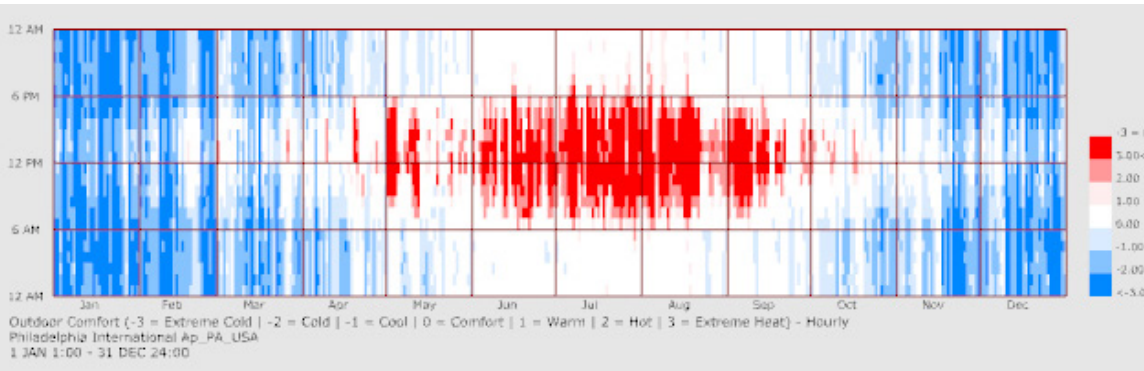
PERCENTAGE OF COMFORTABLE HOURS:
37.15
PERCENTAGE COMFORTABLE SHORT PERIOD:
18.78
HEAT STRESS:
12.24
COLD STRESS:
31.80



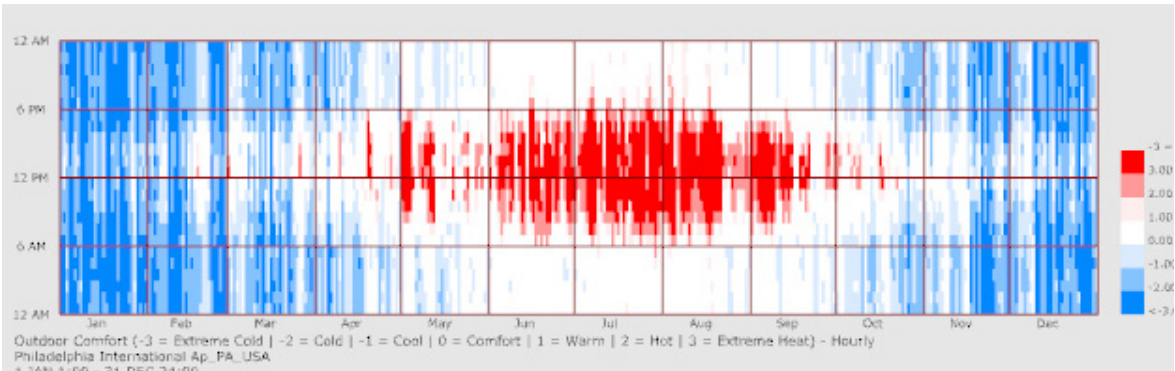
NW BENCH



SW AISLE



SE AISLE



EAST STAIR

QUESTION 1: IN CHOOSING THE BEST LOCATION, I TRIED TO FIND SPACES THAT WERE EITHER HIDDEN OR EXPOSED IN TERMS OF THE AMOUNT OF SOLAR RADIATION / WIND THEY RECEIVE. FOR EXAMPLE, THE STAIRS RECEIVES MORE SUN THAN ANYWHERE ELSE IN THE COURTYARD, WHICH I HOPED WOULD HELP TO COUNTERACT THE FACT THAT MOST OF THE COURTYARD IS SHADED AND IN A DEEP CREVASSE OF BUILDINGS. SECONDLY, I TRIED TO FIND PLACES THAT WERE HIDDEN FROM THE WIND, WHICH WOULD BE BOTH OF THE AISLEWAYS, IN HOPES THAT WOULD ALSO INCREASE THE LEVEL OF COMFORT IN THE COURTYARD.

QUESTION 2: I UNFORTUNATELY DID NOT SEE HUGE VARIATION IN THE PERCENTAGE OF COMFORTABLE HOURS BETWEEN THE LOCATIONS THAT I PICKED. THE STAIR, WHICH I THOUGHT WOULD BE THE MOST COMFORTABLE, ACTUALLY HAD THE LOWEST PERCENTAGE (GRANTED ONLY BY TENTHS OF A PERCENTAGE) OF COMFORTABLE HOURS. HOWEVER, IT DID HAVE THE HIGHEST NUMBER FOR PERCENTAGE OF SHORT PERIOD COMFORT. THE BEST AND WORST LOCATIONS SEEM TO BE EQUALLY DIVDED BETWEEN THE NW BENCH LOCATION AND THE EAST STAIRS, AS THE ONE THAT HAS THE HIGHEST PERCENTAGE OF COMFORTABLE HOURS, HAS THE LOWEST PERCENTAGE OF SHORT PERIOD COMFORT, SO I WOULD SAY THAT THEY ARE PROBABLY EQUALLY COMFORTABLE, WHICH I THINK SPEAKS TO THE VARIATION IN THE SITE BY DEMONSTRATING THAT THERE IS LITTLE.

QUESTION 3: SINCE I DID NOT HAVE A LOCATION THAT WAS SIGNIFICANTLY BETTER THAN THE OTHERS, IT’S HARD FOR ME TO IDENTIFY THESE PARAMETERS. HOWEVER, I WOULD SAY THAT SUN AND HEAT AND COLD STRESS PLAY A LARGE FACTOR. GIVEN THE FACT THAT THIS COURTYARD IS MOSTLY SHADED, I WOULD SAY THAT A FAIR AMOUNT OF THE INABILITY TO FIND COMFORT IN IT COMES FROM COLD. THIS HYPOTHESIS IS ALSO SUPPORTED BY THE FACT THAT COLD STRESS OCCURS IN THIS AREA ALMOST TWICE AS OFTEN AS HEAT STRESS. THE NW BENCH HAS HIGHEST HEAT STRESS AND THE LOWEST COLD STRESS, AS WELL AS THE HIGHEST PERCENTAGE OF COMFORTABLE HOURS, SO I THINK THE FACT THAT THIS BENCH ALSO SEES THE DIRECT SUN, EVEN IF FOR ONLY A SMALL FRACTION OF THE DAY, PLAYS A ROLE IN THIS AREA BEING MORE COMFORTABLE THAN THE OTHERS.

QUESTION 4: THE MAIN LIMITATION IS DEFINITELY THAT THERE IS SUCH LITTLE DIFFERENTIATION BETWEEN THE AREAS IN THE SITE. IT’S VERY HARD TO TELL IF IT IS USER/SIMULATION ERROR, OR PURELY HOW IT IS. IF THIS WERE THE PLAZA INFRONT OF MEYERSON, I WOULD FIND IT HARD TO BELIEVE THERE WAS SUCH LITTLE DIFFERENTIATION BECAUSE OF THE STRONG SUN THAT HITS THE PLAZA EVERYDAY, COUPLED WITH THE SHADED AREAS TO ESCAPE IT OFFERED FROM THE SURROUNDING BUILDINGS. HOWEVER, GIVEN THE LARGE AMOUNT OF SHADE THAT PLAGUES THIS COURTYARD, I COULD EASILY SEE THE LACK OF DIFFERENTIATION BETWEEN LOCATIONS AS FEASIBLE. I THINK THAT I WOULD LIKE TO COMPARE THIS STUDY TO THAT OF AN AREA THAT I KNOW HAS MORE DIVERSIFIED SUN COVERAGE AND SEE IF MY FINDINGS ARE THE SAME.

