

UPENN CAMPUS
SITE COMFORT ANALYSIS

NICOLE BRONOLA. ELLISON TURPIN, MOHAMED ALI

ITEM	TEMPERATURE °F
BRICK	69.6
BUTTON	62.9
TREE TRUNK	66.1
PAVEMENT	70
STONE (GRANITE)	68.3
GRASS	68.0
SOIL	65.2
METAL PLAQUE	66.1

ITEM	TEMPERATURE °F
BRICK	87.4
BUTTON	75.5
TREE TRUNK	79.5
PAVEMENT	79.7
STONE (GRANITE)	85.5
GRASS	81.1
SOIL	88.4
METAL PLAQUE	89.3

Time 10:00 am Temperature Measured 63.0°F
 Humidity 77.0% Temperature Feels Like 62.0°F
 Wind Speed 0.8 m/s Temperature Weather Data 81.0°F

Time 01:00 pm Temperature Measured 71.6°F
 Humidity 51.0% Temperature Feels Like 71.6°F
 Wind Speed 1.0 m/s Temperature Weather Data 87.0°F

ITEM	TEMPERATURE °F
BRICK	70.9
BUTTON	65.4
TREE TRUNK	66.2
PAVEMENT	72.0
STONE (GRANITE)	66.1
GRASS	66.8
SOIL	65.4
METAL PLAQUE	69.4

Time 04:00 pm Temperature Measured 69.2°F

Humidity 50.0% Temperature Feels Like 69.8°F

Wind Speed 0.6 m/s Temperature Weather Data 86.0°F

ITEM	TEMPERATURE °F
BRICK	83.1
BUTTON	81.2
TREE TRUNK	75.8
PAVEMENT	86.7
STONE (GRANITE)	79.4
GRASS	76.7
SOIL	76.9
METAL PLAQUE	80.3

Time 10:00 am

Humidity 71.0%

Wind Speed 0.8 m/s

Temperature Shown 68.6°F

Temperature Measured

73.6°F

Temperature Feels Like

68.0°F

Temperature Weather Data

61.0°F

ITEM	TEMPERATURE °F
BRICK	98.0
BUTTON	96.4
TREE TRUNK	96.8
PAVEMENT	101.5
STONE (GRANITE)	94.8
GRASS	95.2
SOIL	95.7
METAL PLAQUE	97.7

Time 01:00 pm

Temperature Measured

82.5°F

Humidity 62.0%

Temperature Feels Like

78.5°F

Wind Speed 0.6 m/s

Temperature Weather Data

57.0°F

Temperature Shown 78.3°F

ITEM	TEMPERATURE °F
BRICK	86.1
BUTTON	84.5
TREE TRUNK	86.5
PAVEMENT	89.2
STONE (GRANITE)	87.5
GRASS	82.8
SOIL	82.9
METAL PLAQUE	88.1

As a designer the changes mentioned below could help make the location more comfortable for people to be at for longer periods of time

The seating that is available in the location chosen is open to the sun rays which would be helpful for people to sit when the weather is colder to get some more sunlight and radiation.

The change is to include more trees and seating under them. The trees are going to stop the direct radiation from the sun that could allow for more seating options than the ones that already exist

Orient some of the seating elements that are available to be around the building for more shading during the summer days.

Add more trees and shading devices that could reduce the radiation from the sun for the people that are walking across the path or the others that will be seated on either side.

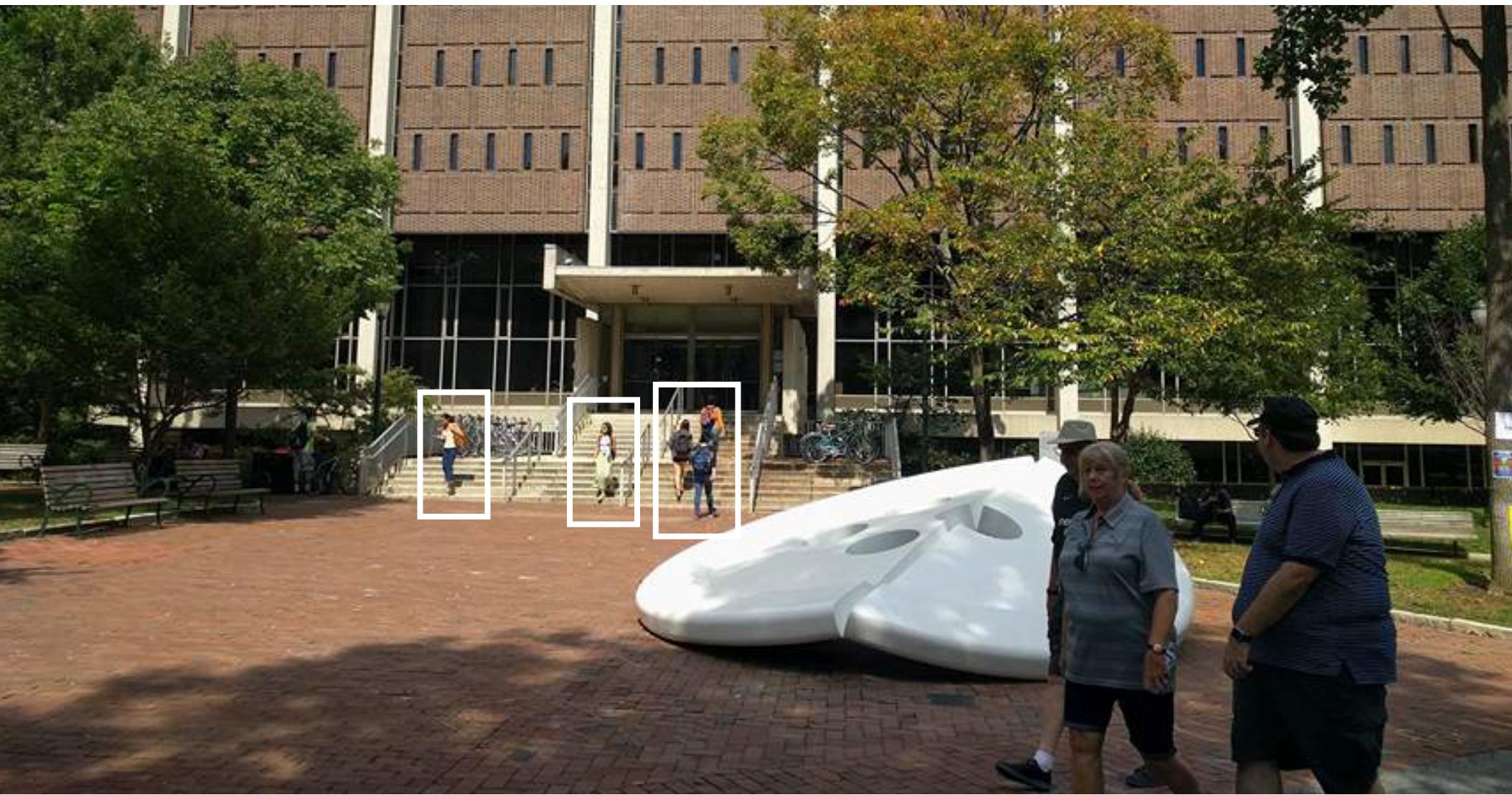
Time 04:30 pm	Temperature Measured	79.5°F
Humidity 58.3%	Temperature Feels Like	88.1°F
Wind Speed 1.1 m/s	Temperature Weather Data	63.0°F
Temperature Shown 86.2°F		



Low amounts of radiation, creates an equal distribution of people on site



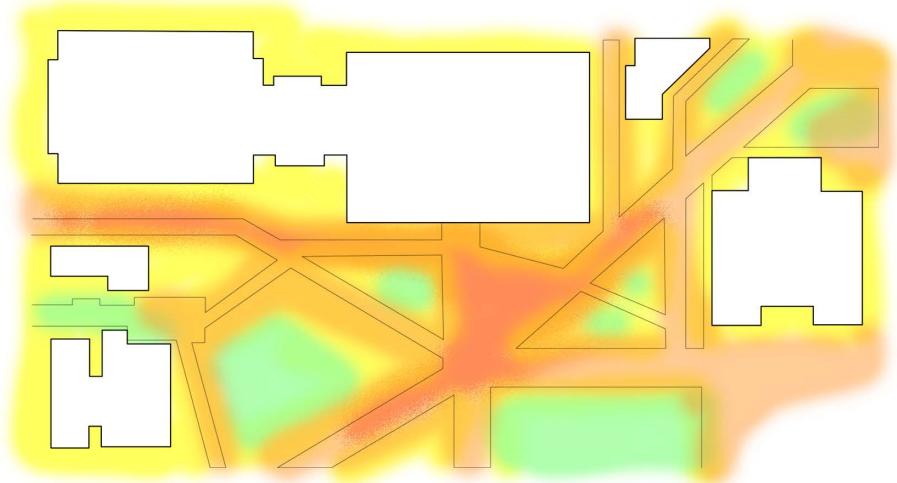
Paths with low amount of light creating optimum conditions



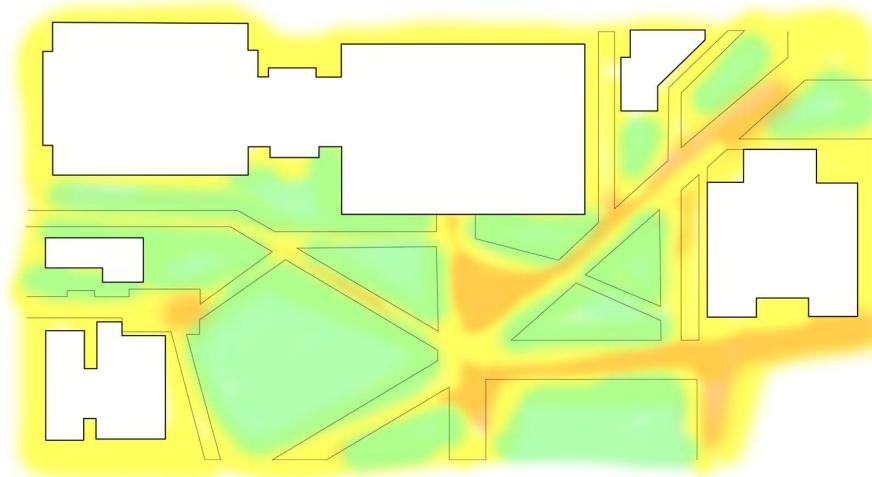
People moving from the direct radiation of the sun to areas with shade or air conditioning



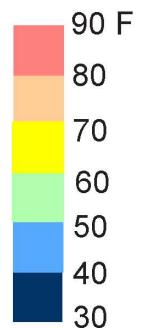
TIME: 10:00 AM



TIME: 1:00 PM



TIME: 4:00 PM





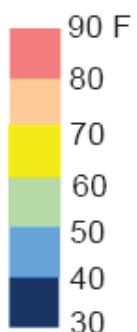
TIME: 10:00 AM

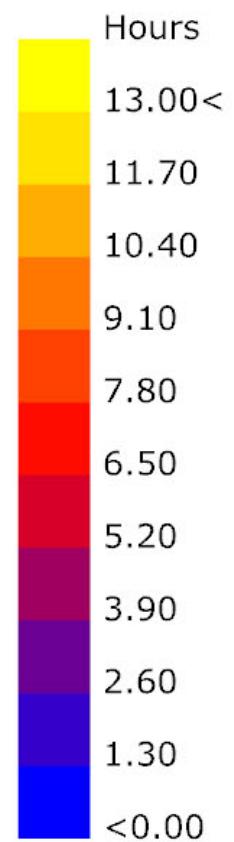


TIME: 1:00 PM



TIME: 4:00 PM





SunlightHours Analysis

