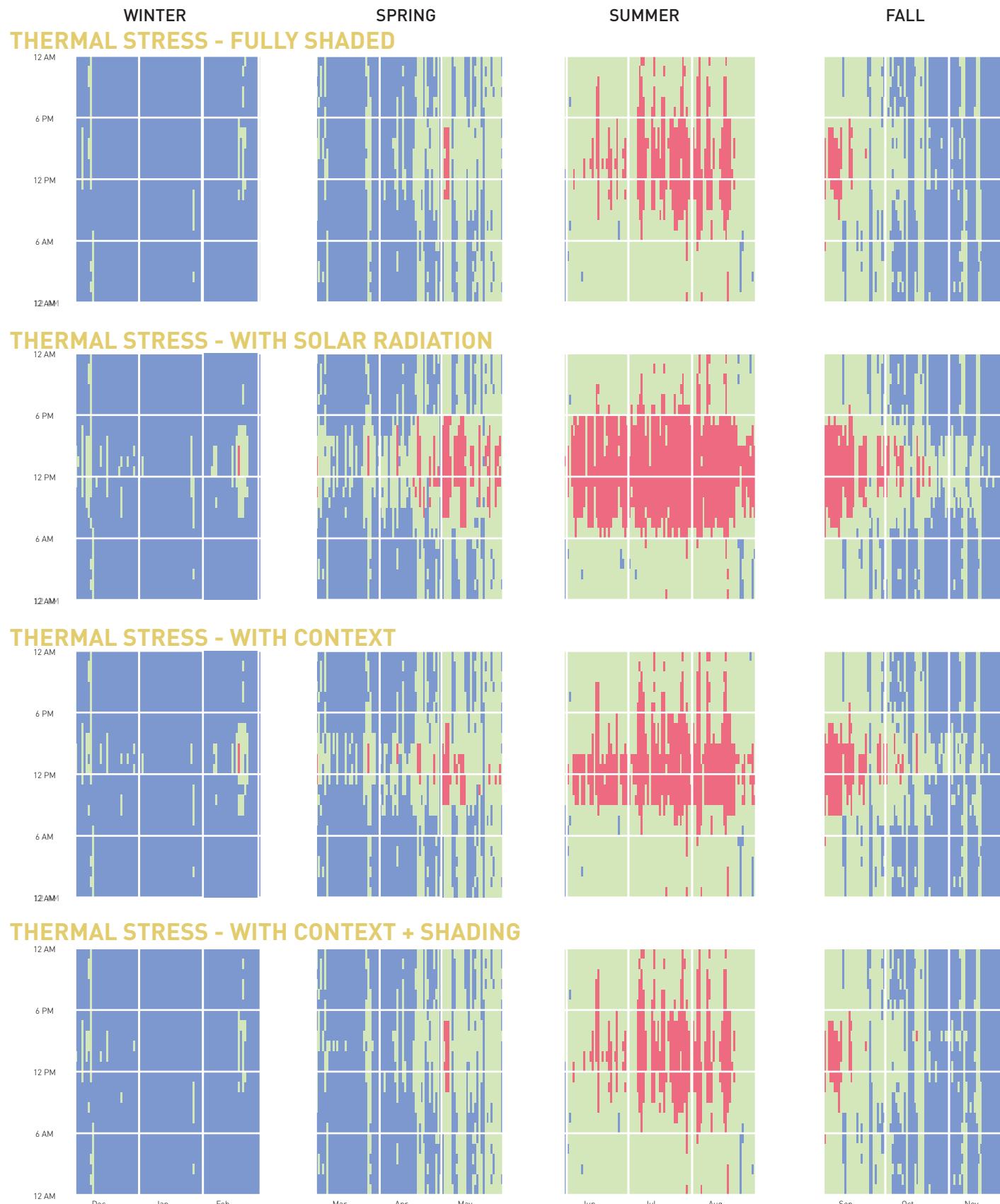


Designing Shading for the Meyerson Hall Plaza



DESIGN PROCESS

The most key part of the design process for this slightly Pareidolic shading structure is the extraction of data for when a person in the given location would be uncomfortable due to excessive heat/thermal stress; in order to obtain this data, Ladybug was used and a combination of the components Solar Radiation, Outdoor Comfort, and Sun Path was combined and filtered to pinpoint where in the field conditions would be most effective to place shading, as well as where it would be beneficial to leave as is (i.e. wanted radiation during colder months).

RESULTING INFORMATION

Charted on the left are 4 distinct charts that describe outdoor comfort of a person that would be sitting on the bench in the plaza, in four different situations: (1) the most ideal shading situation, if the whole area was shaded; (2) when solar radiation is considered and there is no shading whatsoever; (3) when the surrounding buildings are counted; (4) when the surrounding buildings as well as the designed shading are counted. The results are as follows:

COMFORT WHILE FULLY SHADED	3616 days / 8760 days	=	41.28%
COMFORT WITH SOLAR RADIATION	3271 days / 8760 days	=	37.34%
COMFORT WITH CONTEXT BUILDINGS	3549 days / 8760 days	=	40.51%
COMFORT WITH CONTEXT + SHADING	3634 days / 8760 days	=	41.48%

