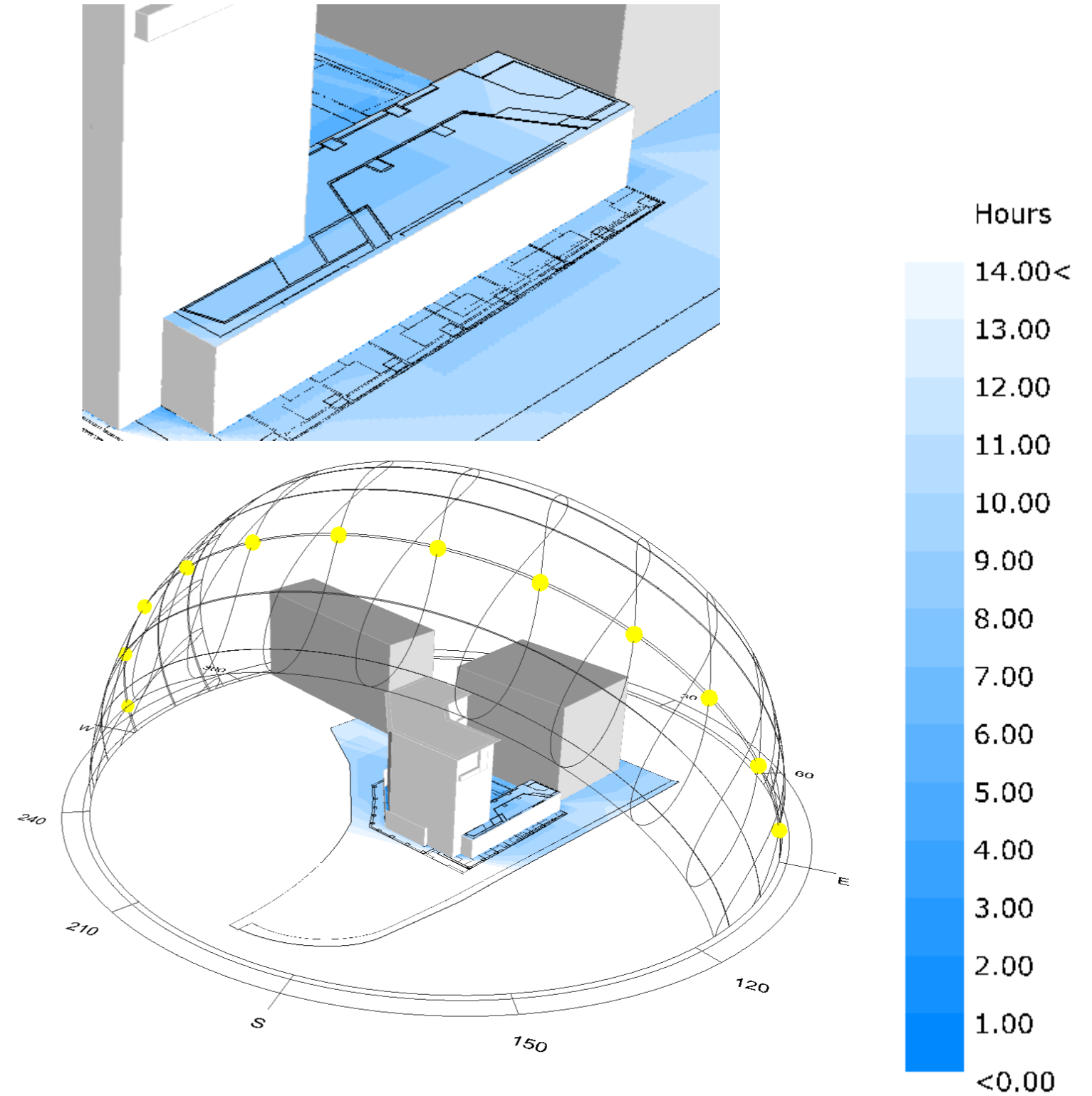
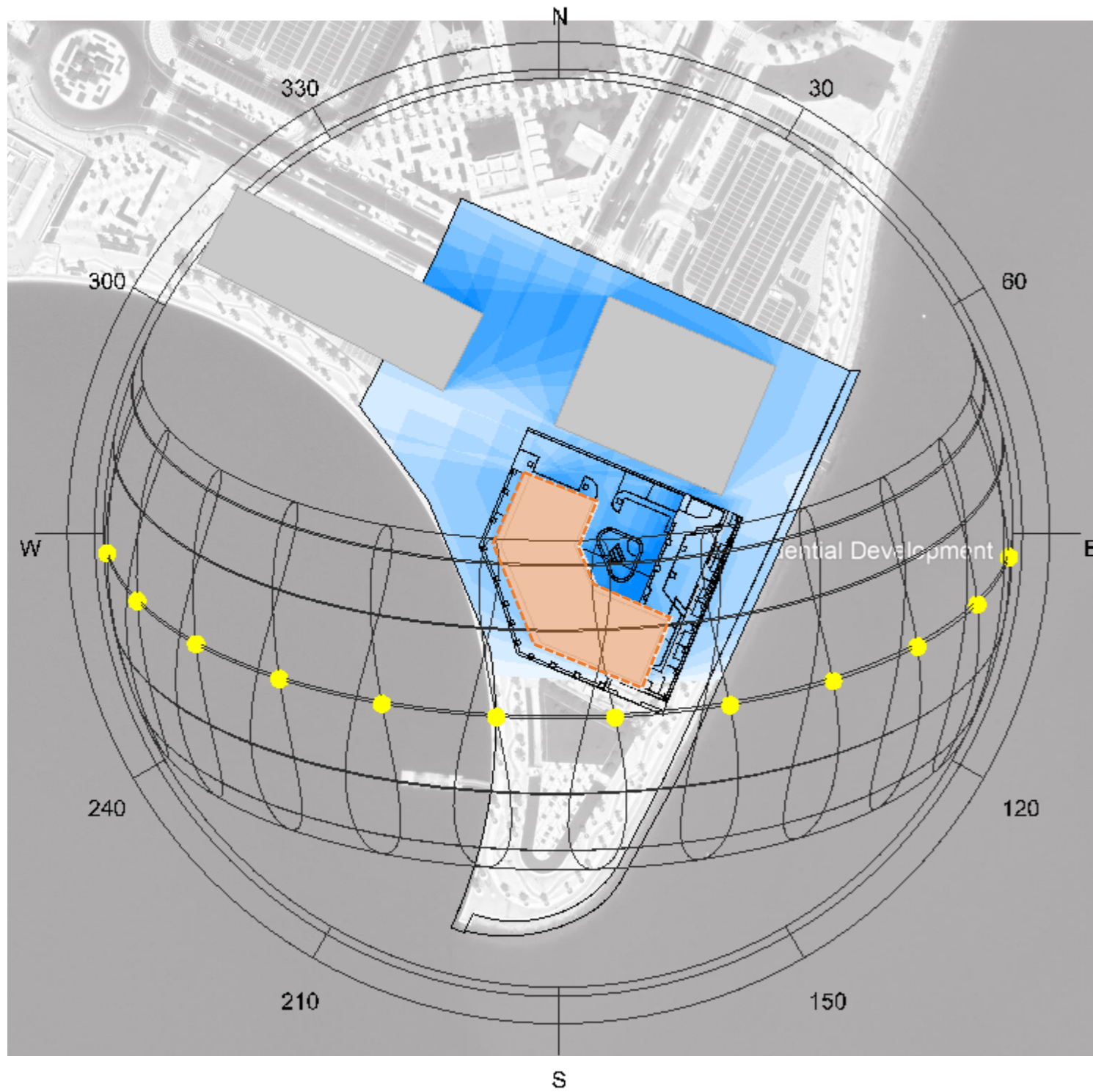


# Overshadow Analysis

**Residential Development , Abu Dhabi**

## Spring Equinox – 21<sup>st</sup> March

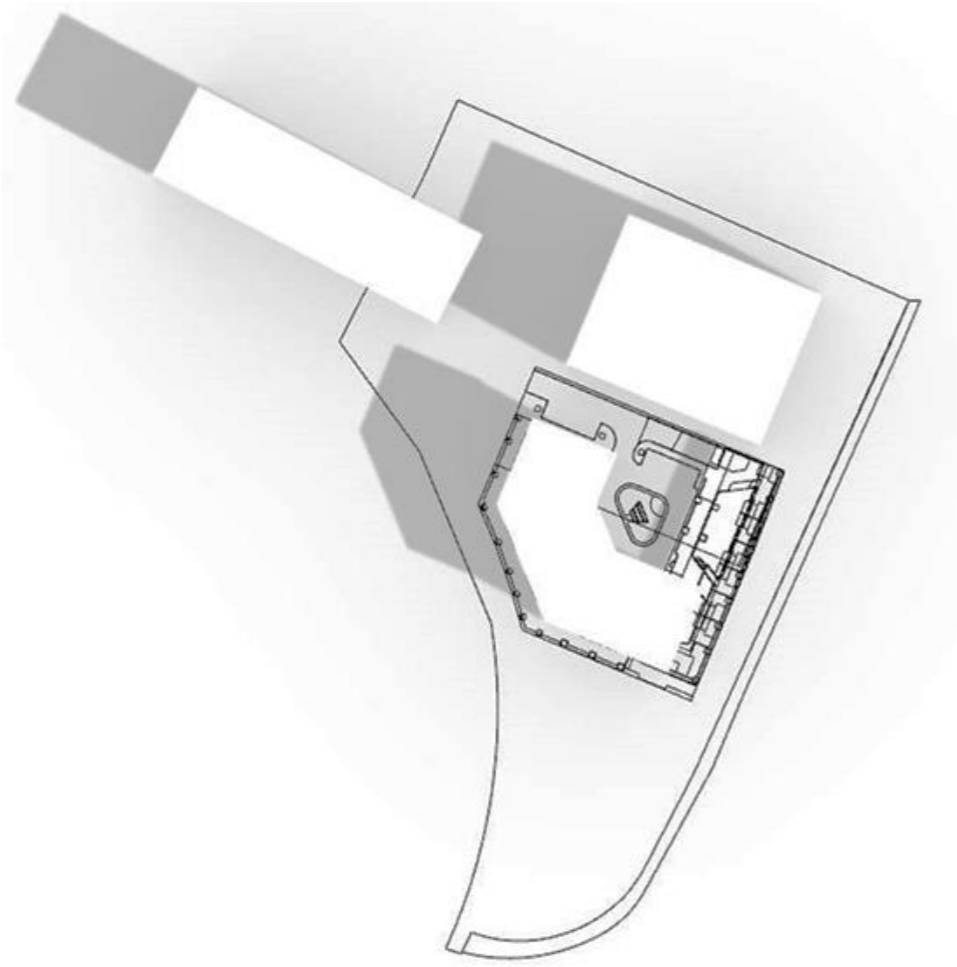
- The Analysis shows the number of sunlight hours throughout the day. The analysis is conducted for 24 hours but only the daylight hours for the day are taken into consideration.
- The climate file for Abu Dhabi has been used for the simulation. The latitude & longitude co-ordinates are 24.4539° N, 54.3773° E



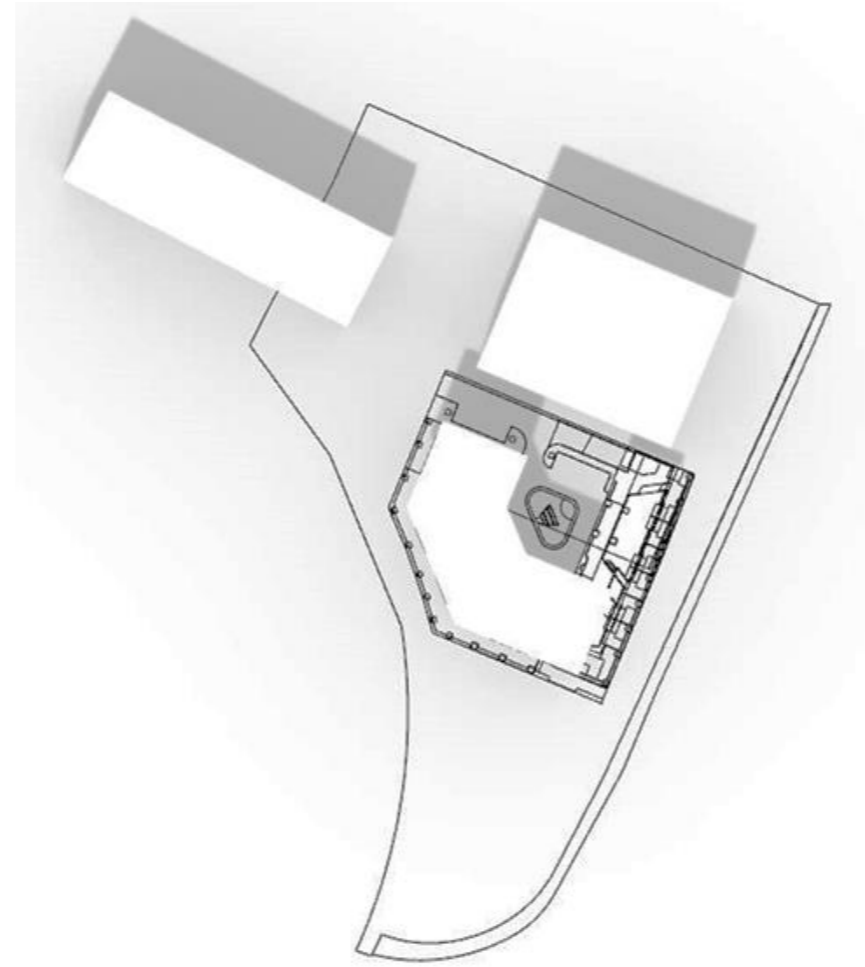
## Observation

- Primary direction of over shadowing is the North East & North West directions due to lower angle of sun on the sun path.
- Pool receives direct sunlight from the east during the morning hours. It is shaded on the west during afternoons.
- Upper region of the promenade is shaded during the morning hours.
- Massing has no effect on the lower part of the promenade & the open area throughout the day as it faces south.

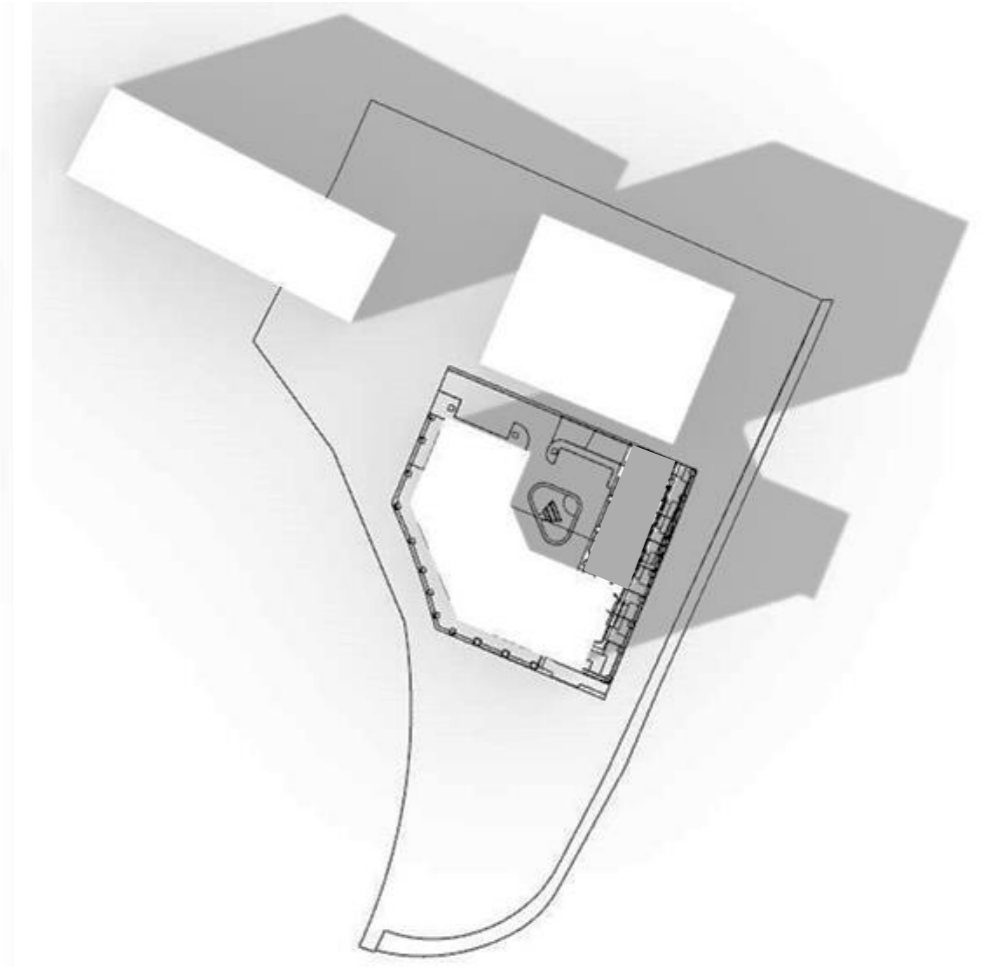
**March 21<sup>st</sup> 10 AM**



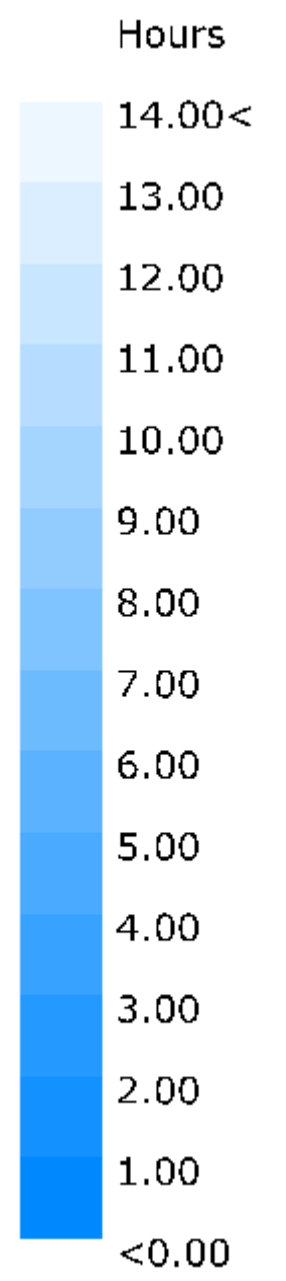
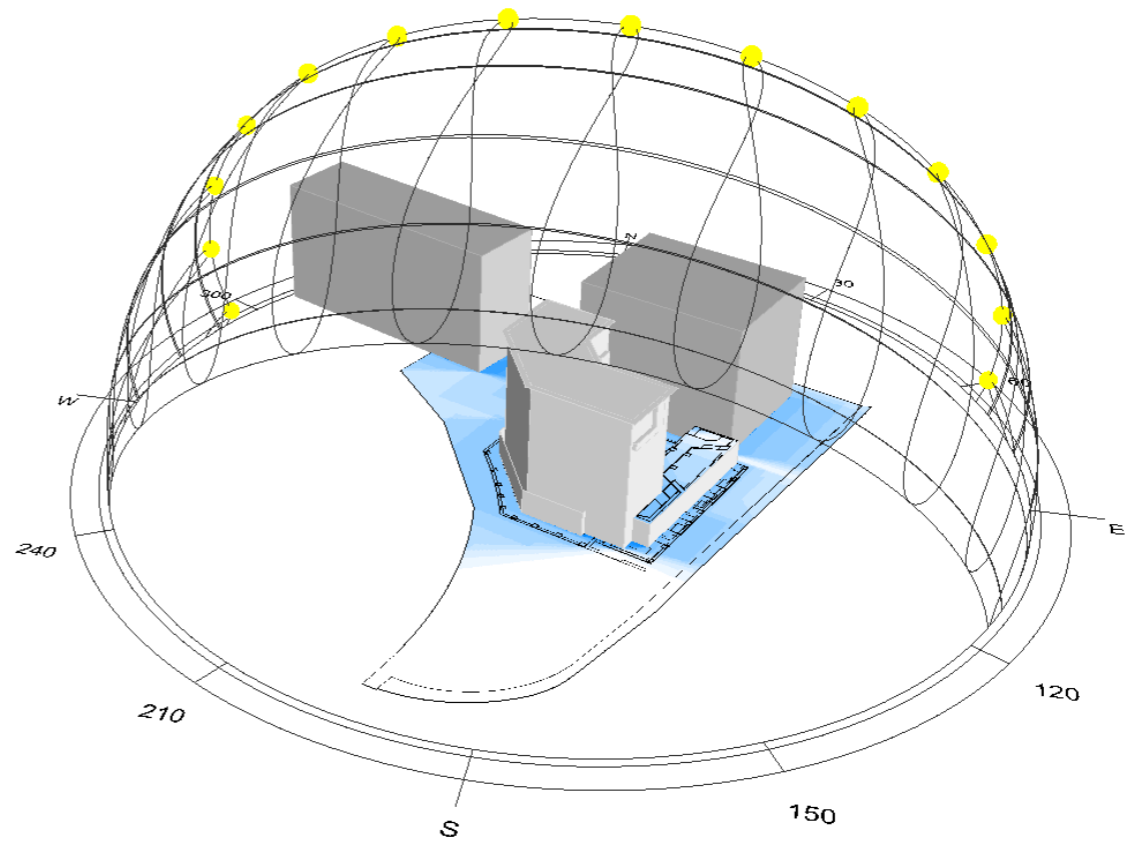
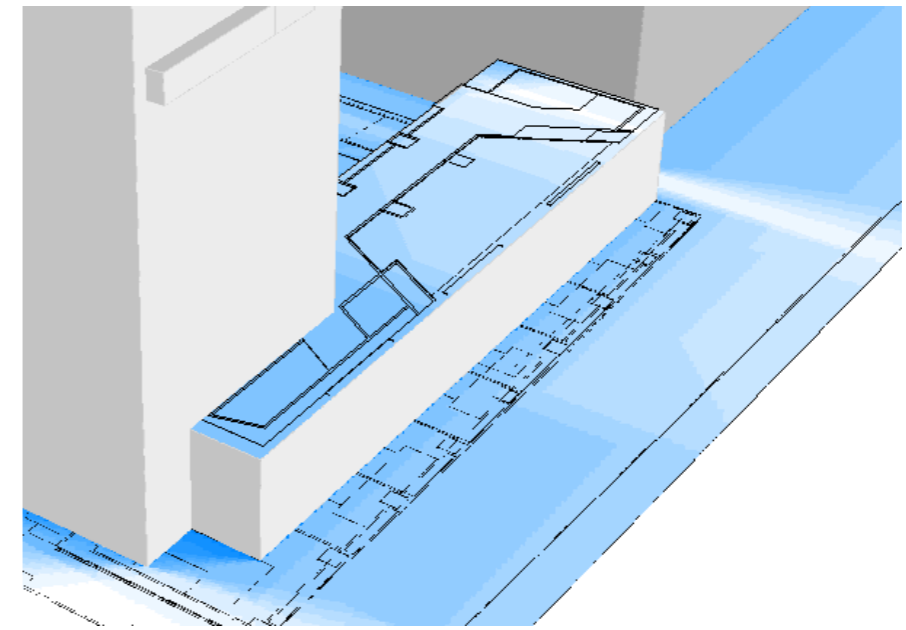
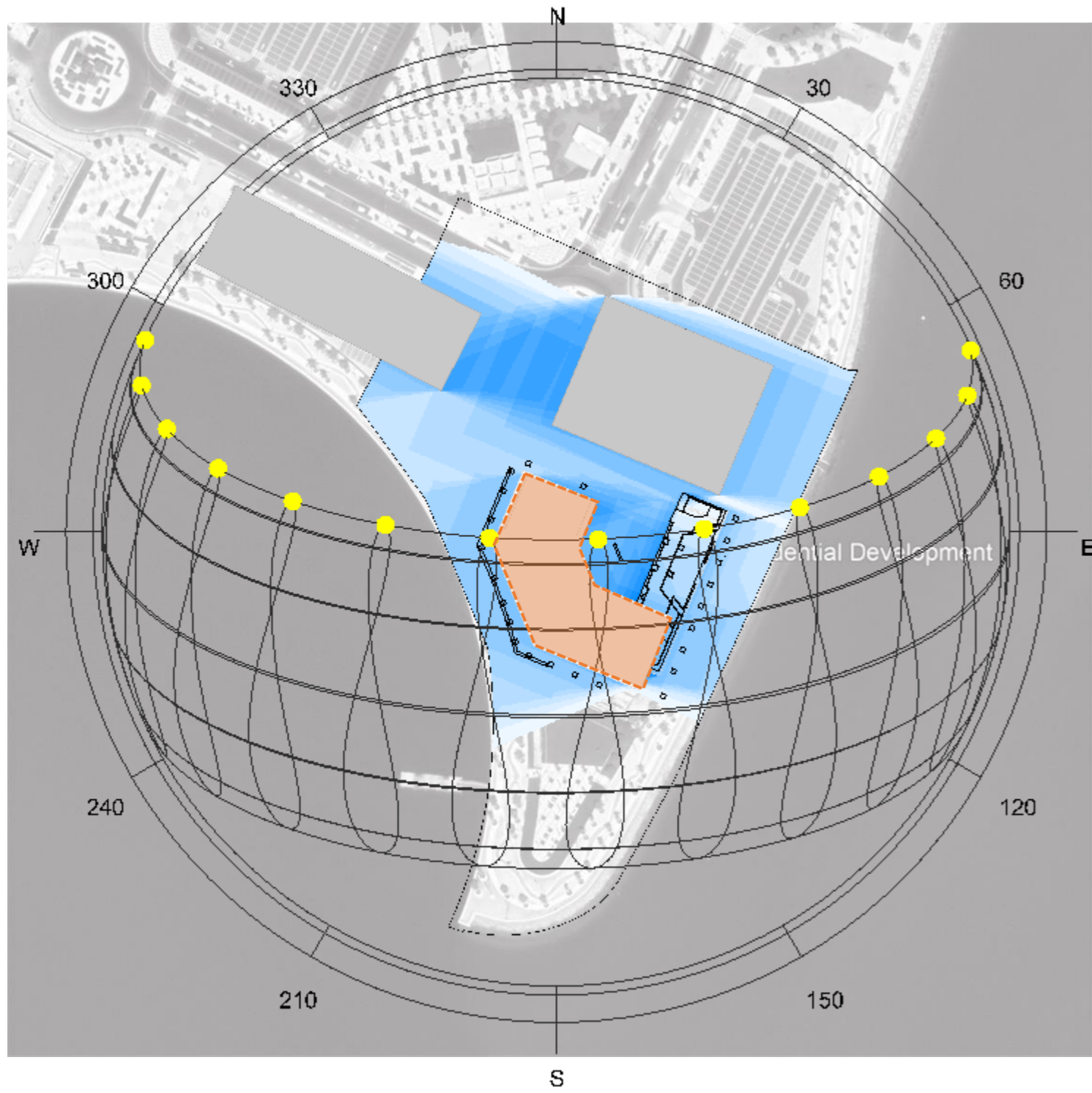
**March 21<sup>st</sup> 1 PM**



**March 21<sup>st</sup> 4 PM**



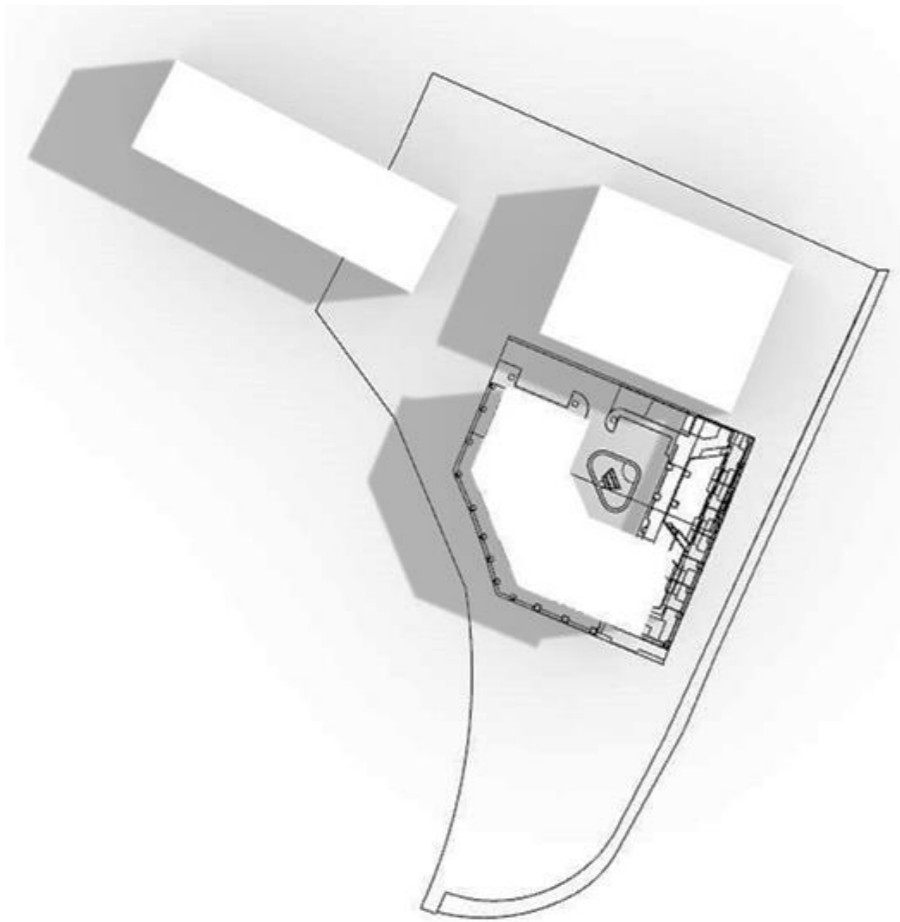
# Summer Solstice – 21<sup>st</sup> June



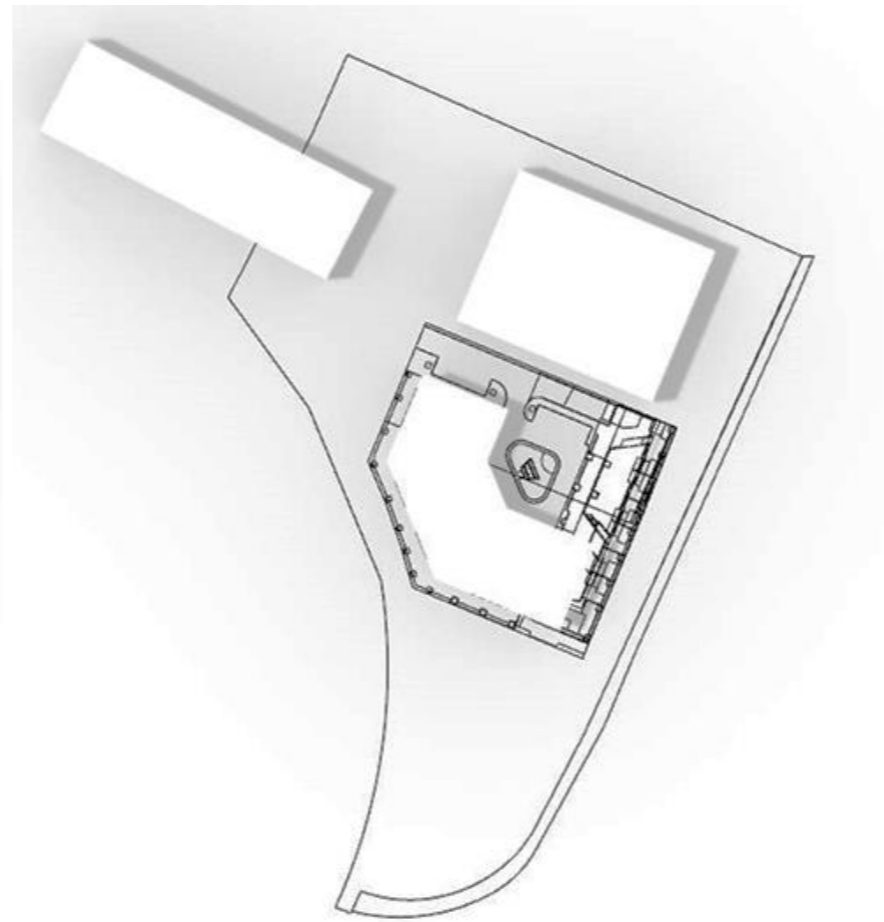
## Observation

- Primary direction of over shadowing is the East & West directions as the sun is directly overhead during peak summer.
- Pool receives direct sunlight from the east during the morning hours. It is shaded on the west during afternoons.
- Upper region of the promenade is shaded during the morning hours.
- Massing has no effect on the lower part of the promenade & open area throughout the day as it faces south.

**June 21<sup>st</sup> 10 AM**



**June 21<sup>st</sup> 1 PM**



**June 21<sup>st</sup> 4 PM**

