

Night Lights

Evenings at Fly ranch could be an excellent opportunity to socialize. To facilitate this the modules that contain spheres are lined with LED strips inside the ring. With one day's sunlight the lights can be powered for 41 hours (LEDs operating at 1w/ft). This is more than enough and excess power can be used for other purposes.

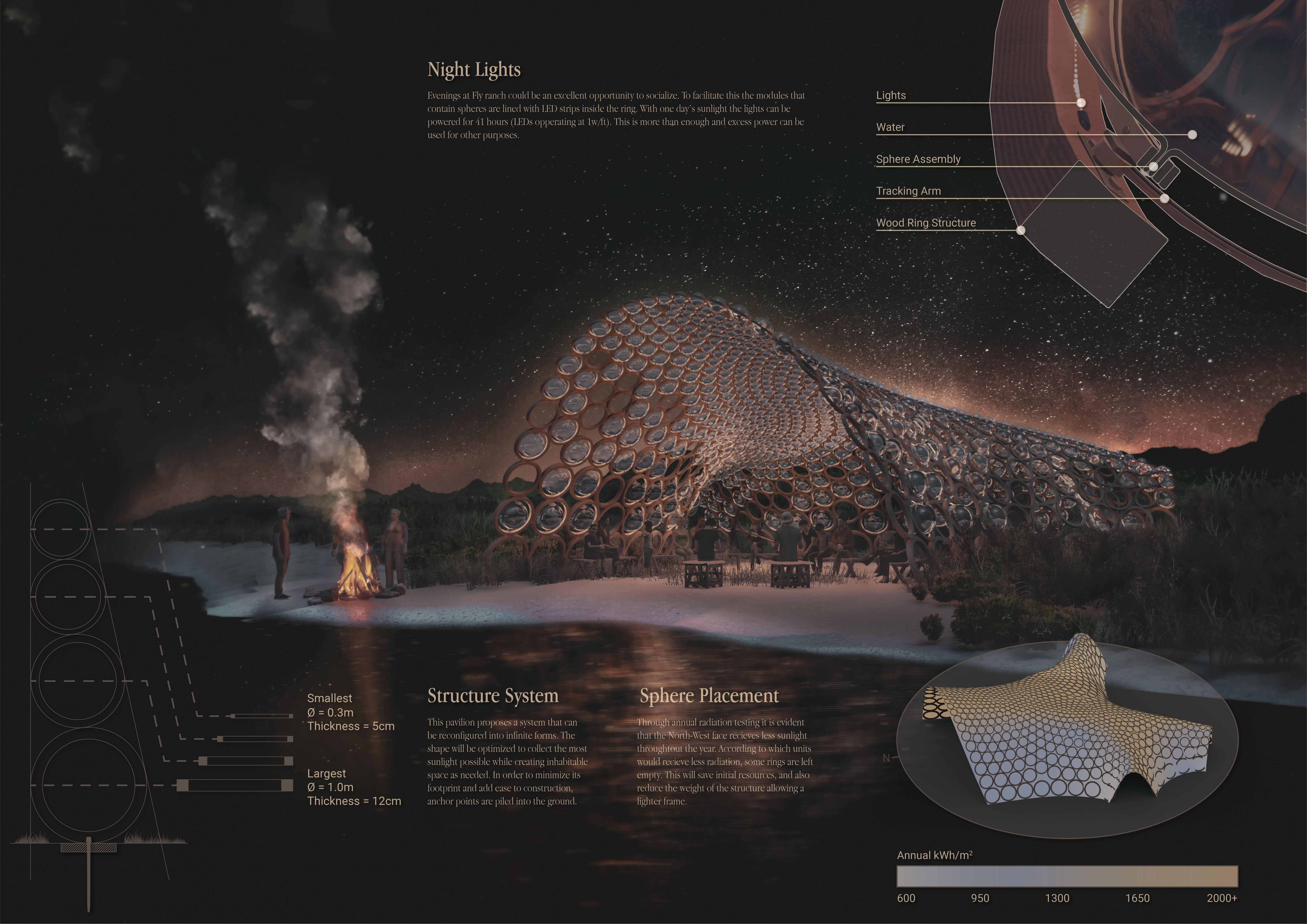
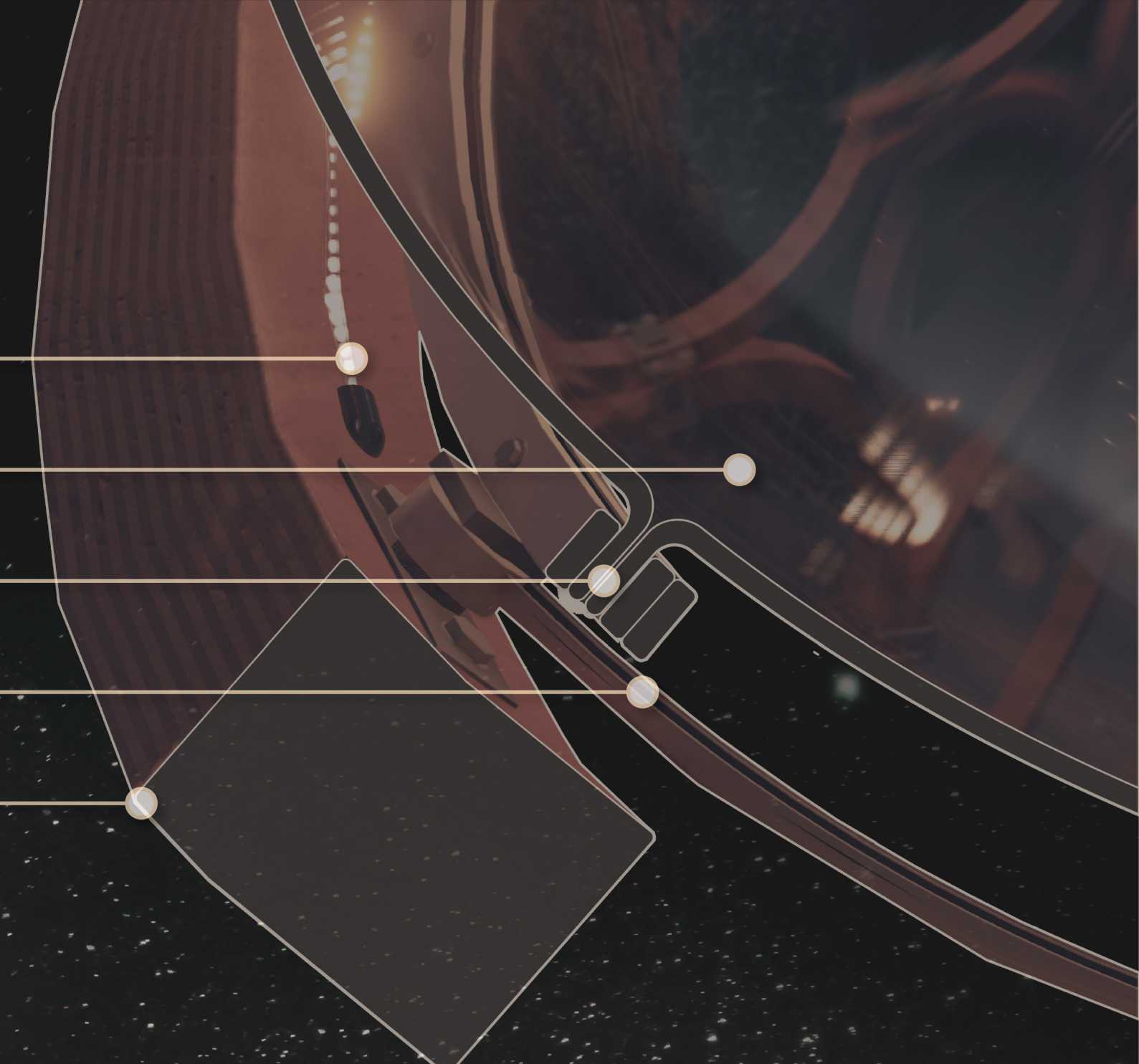
Lights

Water

Sphere Assembly

Tracking Arm

Wood Ring Structure



Smallest
 $\text{Ø} = 0.3\text{m}$
 Thickness = 5cm

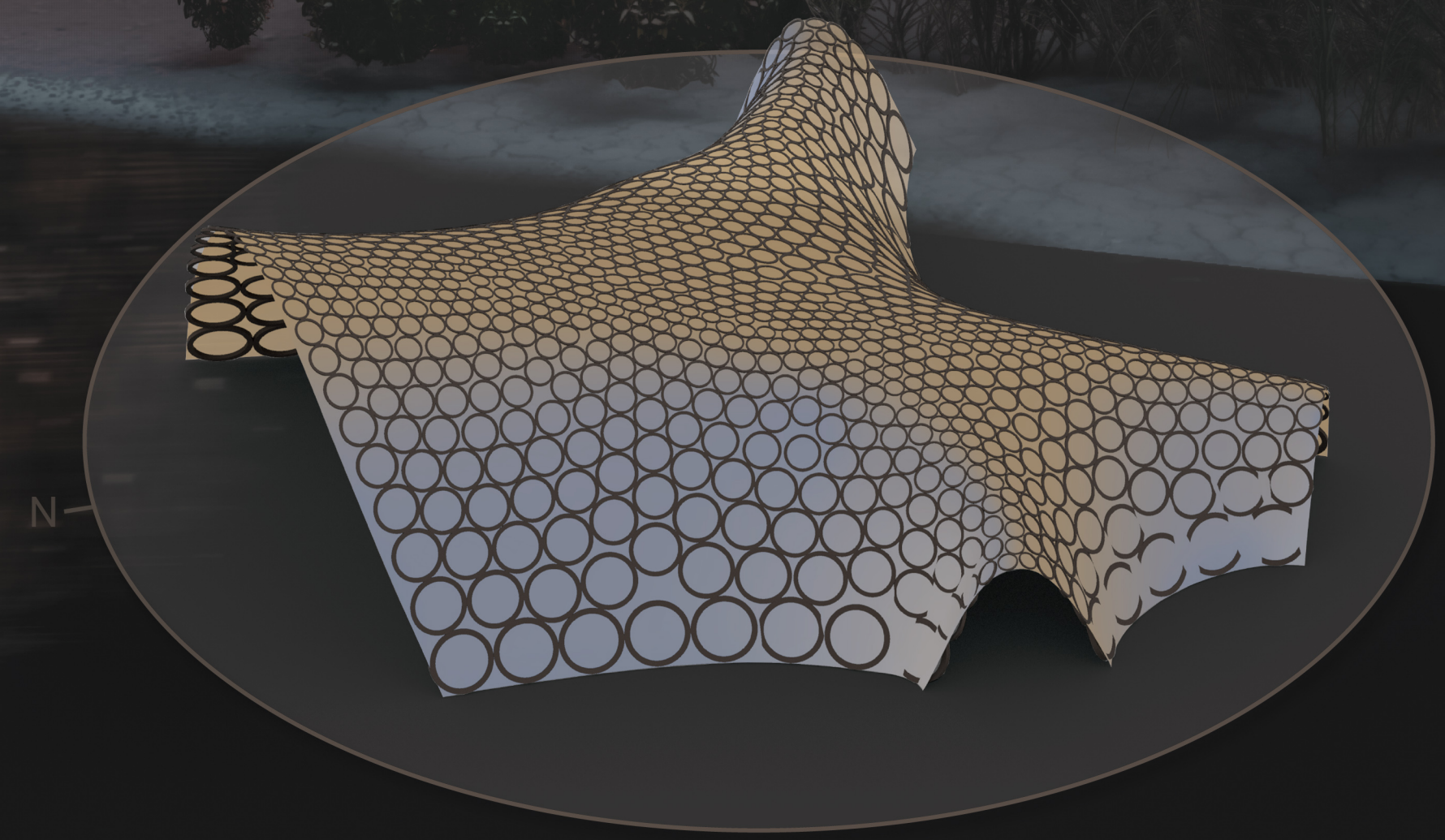
Largest
 $\text{Ø} = 1.0\text{m}$
 Thickness = 12cm

Structure System

This pavilion proposes a system that can be reconfigured into infinite forms. The shape will be optimized to collect the most sunlight possible while creating inhabitable space as needed. In order to minimize its footprint and add ease to construction, anchor points are piled into the ground.

Sphere Placement

Through annual radiation testing it is evident that the North-West face receives less sunlight throughout the year. According to which units would receive less radiation, some rings are left empty. This will save initial resources, and also reduce the weight of the structure allowing a lighter frame.



Annual kWh/m²

