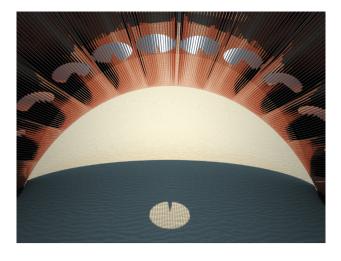
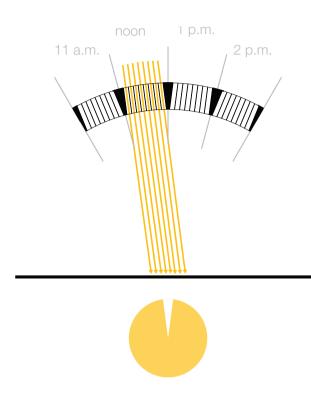
Diurnal shadow

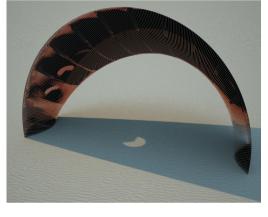
One hour span sample shadow change

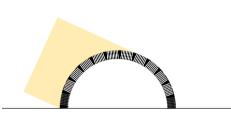


full hour -7.5°



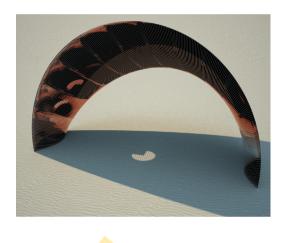
One day span sample shadow change





8 am Surface exposed: 1216 sqm Avg. radiation: 0.7526 kW Avg. radiation per srf: 915 kW/sqm Avg. radiation * kWp: 0.109 kW/sqm Power per area exposed: 132 kW

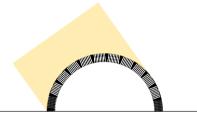
East-West section





9 am Surface exposed: 1392 sqm Avg. radiation: 0.9031 kW Avg. radiation per srf: 1257 kW/sqm Avg. radiation * kWp: 0.130 kW/sqm Power per area exposed: 182 kW

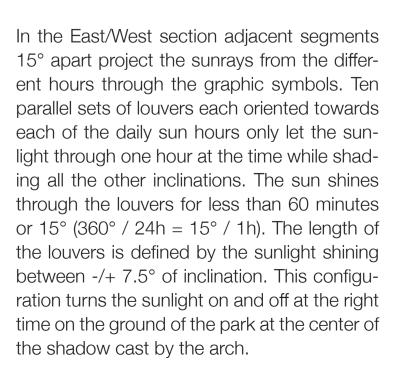


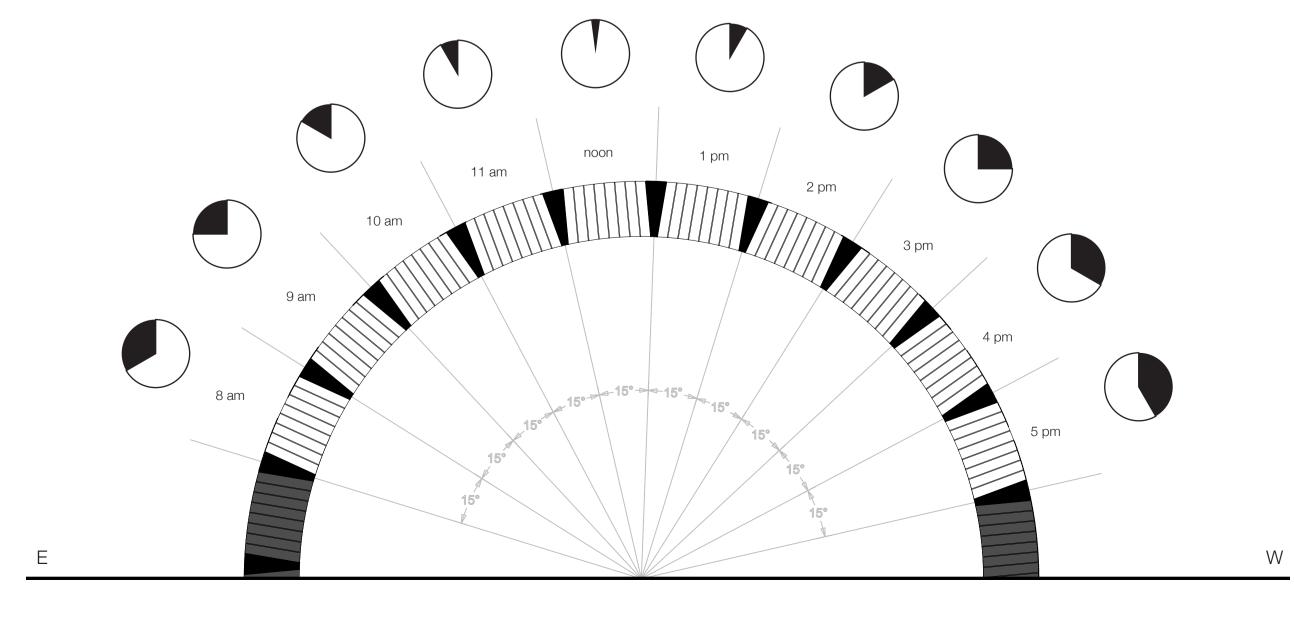


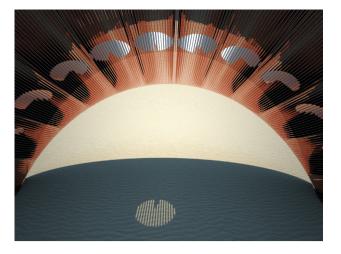
10 am Surface exposed: 1550 sqm Avg. radiation: 0.9758 kW Avg. radiation per srf: 1512 kW/sqm Avg. radiation * kWp: 0.141 kW/sqm Power per area exposed: 219 kW



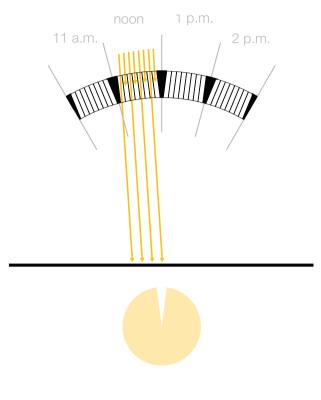
11 am Surface exposed: 1683 sqm Avg. radiation: 1.0105 kW Avg. radiation per srf: 1700 kW/sqm Avg. radiation * kWp: 0.146 kW/sqm Power per area exposed: 246 kW

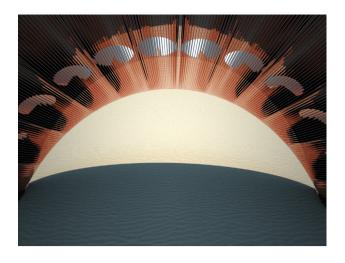




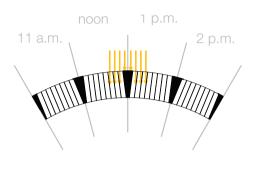


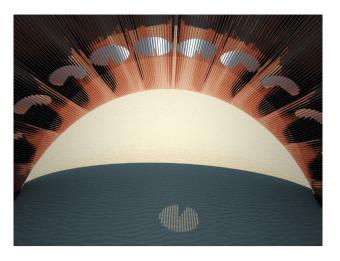
quarter hour -3.75°



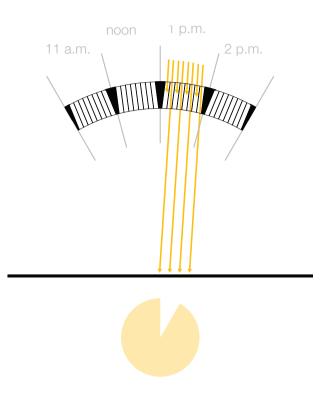


half hour 0°



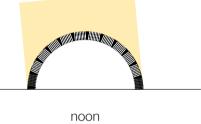


three-quarters hour +3.75°

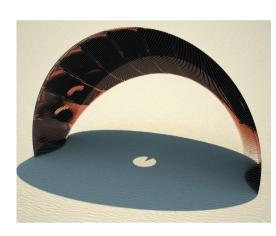


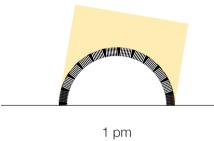






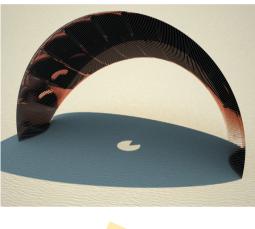
Surface exposed: 1786 sqm Avg. radiation: 1.0210 kW Avg. radiation per srf: 1823 kW/sqm Avg. radiation * kWp: 0.148 kW/sqm Power per area exposed: 264 kW





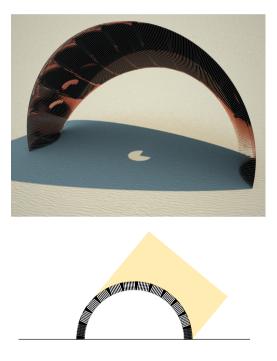
Surface exposed: 1760 sqm Avg. radiation: 1.0105 kW Avg. radiation per srf: 1778 kW/sqm Avg. radiation * kWp: 0.146 kW/sqm Power per area exposed: 257 kW

North-South section



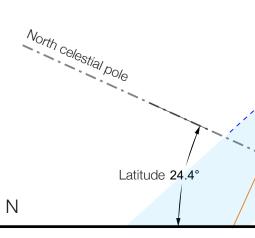


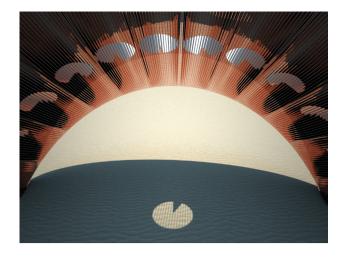
Surface exposed: 1648 sqm Avg. radiation: 0.9758 kW Avg. radiation per srf: 1608 kW/sqm Avg. radiation * kWp: 0.141 kW/sqm Power per area exposed: 233 kW



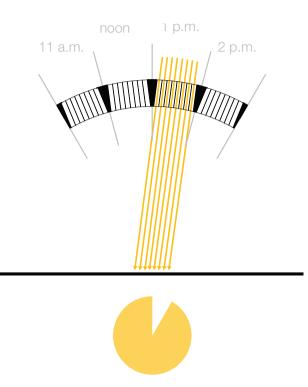
3 pm Surface exposed: 1508 sqm Avg. radiation: 0.9031 kW Avg. radiation per srf: 1361 kW/sqm Avg. radiation * kWp: 0.130 kW/sqm Power per area exposed: 197 kW

In the North/South section the shape of the openings is defined by the solar declination from the angle of the Summer solstice to the angle of the Winter solstice. The Equinox line is perpendicular to the photovoltaic surface. The openings indicating the time and the amount of kW generated are shorter than the parallel louvers allowing the sun rays to illuminate the hours at all angles of incidence from solstice to solstice and defining the space for the structural beams.

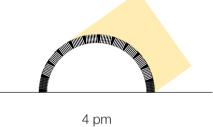




full hour +7.5°







Surface exposed: 1345 sqm Avg. radiation: 0.7526 kW Avg. radiation per srf: 1012 kW/sqm Avg. radiation * kWp: 0.109 kW/sqm Power per area exposed: 146 kW





5 pm Surface exposed: 1166 sqm Avg. radiation: 0.423 kW Avg. radiation per srf: 494 kW/sqm Avg. radiation * kWp: 0.061 kW/sqm Power per area exposed: 71 kW

