

Heaven to Earth Art Installation is made of 100 modules measuring 12 by 12 metres by 20 meters in height. Each module has a domed roof covered with 120 m² monocrystalline PV panels with standard capacity of 200W/m² which results in 24kW total capacity per module. Total capacity of the installed 100 modules is 2.4 MW. Two larger modules measure 24 by 24 meters. They feature advanced Concentrated PV (CPV) technology that works with parabolic solar mirrors and reach efficiency up to 40%. Their capacity is 50 kW each. Thus total capacity of all 102 modules is 2.5 MW.

This results in 15 MWh daily output assuming 6-hour sun days and the annual output is 5.5GWh.

Construction cost of each module is estimated at \$250 000. Total construction budget for the Heaven to Earth Art Installation is \$25 M. This means \$10 cost per Watt capacity.

Parametric and artistic methods are used to lighten the structure by laser cutting intricate patterns inspired by Arabic writing and stylized Kufi calligraphy. Kufi calligraphy is particularly interesting because it turns actual texts into abstract compositions while keeping them readable to the enlightened beholder. Kufi is used traditionally as architectural ornamentation in the Arabic building tradition. Its mathematical beauty make it timeless and attractive to the eye and the mind.



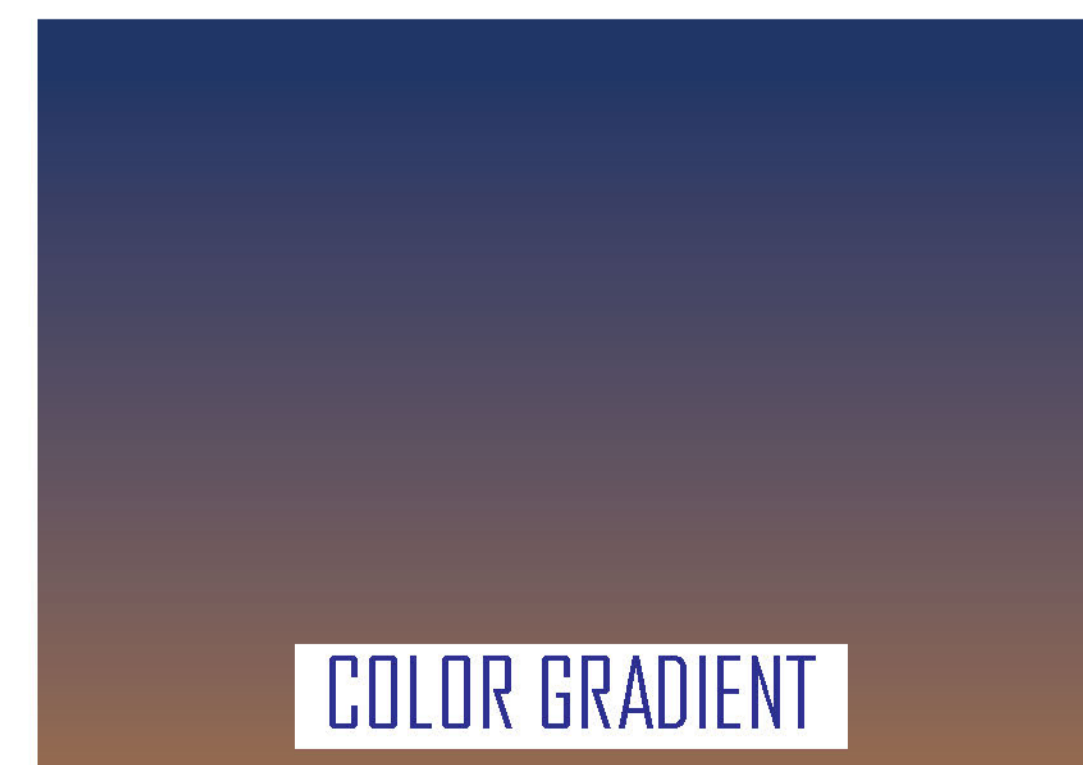
COURTYARD UNDER THE CPV MODULE WITH PARABOLIC MIRROR

HEAVEN TO EARTH

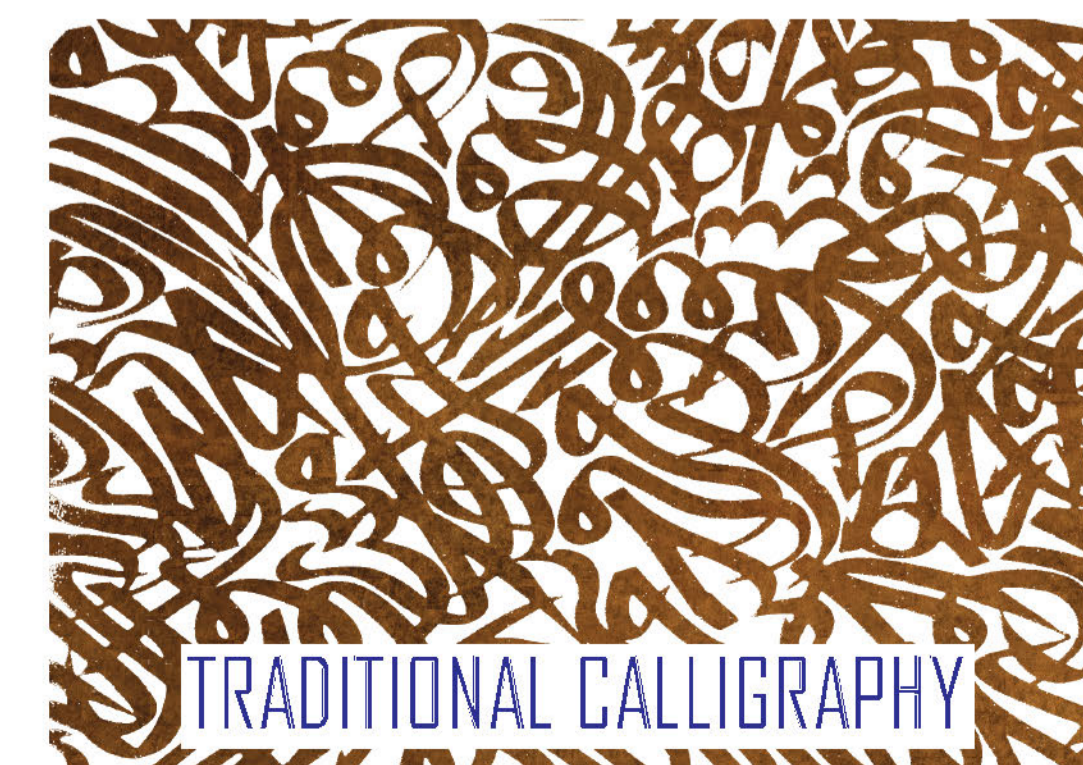
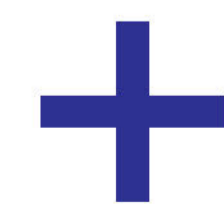
ART INSTALLATION

HEAVEN

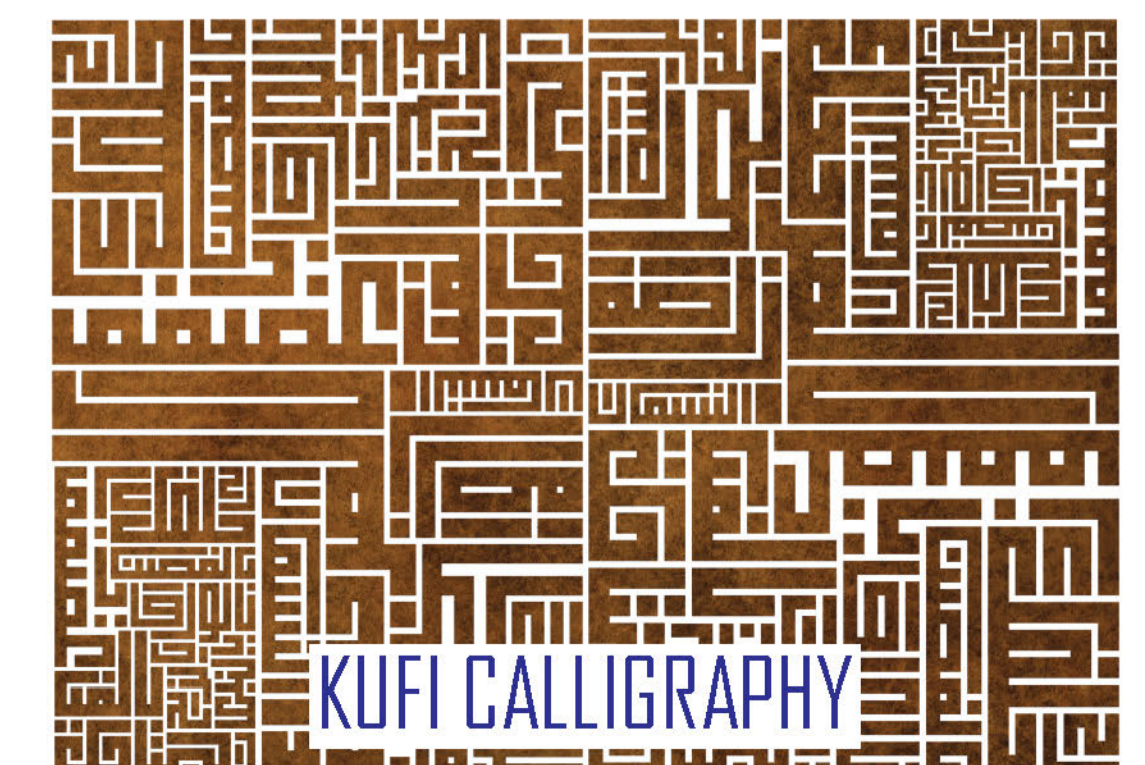
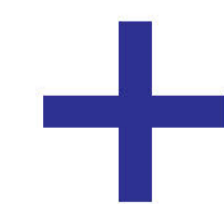
EARTH



COLOR GRADIENT



TRADITIONAL CALLIGRAPHY



KUFI CALLIGRAPHY