

Roofprints 2006

Description:

Outlines of building roofs from 2006 used in GIS mapping as a cartographic proxy for building footprints.

Meta

- Category: City Government
- Permissions:
- Tags: building models

Links

- Permalink: <https://data.cityofberkeley.info/City-Government/Roofprints-2006/gnp8-t9x8>
- Short URL: https://data.cityofberkeley.info/City-Government/Roofprints-2006/gnp8-t9x8?category=City-Government&view_name=Roofprints-2006

Attribution

- Data Provided By: City of Berkeley Information Technology Department
- Source Link: <http://www.cityofberkeley.info/gis/>

Update Frequency:

Once

One Page Narrative:

These 2D building roofprints are a byproduct of 3D building models created by Ch2M Hill in 2006 for calculation of the solar potential of roofs in Berkeley. The roofprints are used in GIS mapping as a cartographic proxy for building footprints. Buildings without roofs are not represented.

The 3D building models were created with Precision Light Works (PLW) software and delivered in Esri multipatch format. The 3D multipatch format was converted shapefile to create this dataset. Many of the columns in this dataset refer to the original 3D building model attributes.

Tabular Data Descriptions

Column Name	Comment
CenterLat	latitude of the object origin, in degrees WGS-84
CenterLat	latitude of the object origin, in degrees WGS-84
CenterLon	longitude of the object origin, in degrees WGS-84
Origin84	origin of the object, in meters WGS-84 vertical datum
OriginMSL	origin of the object, in meters EGM96 vertical datum (mean sea level)
USNGPos	center of the bounding cube base, in National Grid coordinates
LatMin	Minimum latitude of the object bounding box, in degrees WGS-84
LonMin	Minimum longitude of the object bounding box, in degrees WGS-84
LatMax	Maximum latitude of the object bounding box, in degrees WGS-84
LonMax	Maximum longitude of the object bounding box, in degrees WGS-84
MinHeight	Minimum height of the object bounding box, in meters WGS-84 vertical datum
MaxHeight	Maximum height of the object bounding box, in meters WGS-84 vertical datum
BoxXSize	Object bounding box size in east direction, in meters
BoxYSize	Object bounding box size in north direction, in meters
BoxZSize	Object bounding box size in vertical direction, in meters
BrectRot	best fit (via rotation) bounding rectangle rotation from east aligned rectangle, in degrees counterclockwise
BrectLen	best fit (via rotation) bounding rectangle length, in requested output coordinate system units (or meters if geodetic option selected)
BrectWid	best fit (via rotation) bounding rectangle width, in requested output coordinate system units (or meters if geodetic option selected)
BrectArea	Area of best fit (via rotation) bounding rectangle, in requested output coordinate system units (or meters if geodetic option selected)
BrCentLat	latitude of the center of the best fit (via rotation) bounding rectangle, in degrees WGS-84
BrCentLon	longitude of the center of the best fit (via rotation) bounding rectangle, in degrees WGS-84
NumFaces	number of faces (not necessarily triangles) in the object - depends also on the Shape type
BelowGnd	Height of any below ground extrusion used by the object, in meters
PrCentN	Northing of the object origin, in map projection units

PrCentE	Easting of the object origin, in map projection units
PrCentH	Height of the object origin, in map projection units
BelowGndP	Height of any below ground extrusion used by the object, in map projection units
PrMinE	minimum easting of the object bounding cube, in map projection units
PrMaxE	maximum easting of the object bounding cube, in map projection units
PrMinN	minimum northing of the object bounding cube, in map projection units
PrMaxN	maximum northing of the object bounding cube, in map projection units
PrMinH	minimum elevation of the object bounding cube, in map projection units
PrMaxH	maximum elevation of the object bounding cube, in map projection units
PrSizeE	Size in the easting direction of the object bounding cube, in map projection units
PrSizeN	Size in the northing direction of the object bounding cube, in map projection units
PrSizeH	height of the object bounding cube, in map projection units
Code	Compound object name (same as ObjName field), PLW Terra Vista item
Model	Filename of the OpenFlight object if one were exported using object per file option – includes any flt prefix specified in the Shapefile export setup, PLW Terra Vista item
RuleID	
Shape_area	Automatically generated area of feature in internal units squared
Shape_len	Automatically generated length of feature in internal units