Table. Feature used and the definition.

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| Abbr. name | Definition | Range/ Unit |
| **Building\*** |  |  |
| Area | Area of the building | meter |
| Perimeter | Perimeter of the building | meter |
| circularcompactness | the ratio between the area of the building footprint and the area of the circumscribed circle. | [0, 1] |
| longestaxislength | Length of the longest axis of the building footprint  Axis is defined as a diameter of minimal circumscribed circle around the convex hull. | meter |
| elongation | Elongation of the minimum bounding box around the building footprint | [0, 1] |
| convexity | Area of the footprint divided by the area of the convex hull around the footprint. | [0, 1] |
| orientation | orientation of the longest axis of bounding rectangle in range 0 – 45. It captures the deviation of orientation from cardinal directions | degree |
| corners | Calculates number of corners of the building | count |
| sharedwall | Length of wall shared with other buildings | meters |
| **Block\*** |  |  |
| *Features of buildings in blocks* |  |  |
| blockcount | Number of buildings in the block that the building is part of. | count |
| AvBlockFootprintArea | Average footprint area of buildings in the block | squared meter |
| StdBlockFootprintArea | Standard deviation of footprint areas of buildings in the block. | squared meter |
| BlockTotalFootprintArea | Total building footprint of the block. Unit: squared meters. | squared meter |
| *Features of block itself* |  |  |
| BlockPerimeter | Total perimeter of the block. | meter |
| BlockLongestAxisLength | Length of the longest axis of whole block footprint. |  |
| BlockElongation | Elongation of the minimum bounding box around the whole block footprint. | [0, 1] |
| BlockConvexity | Convexity of the whole block footprint. | [0, 1] |
| BlockOrientation | Orientation of the whole block footprint. | degree |
| BlockCorners | Number of corners of the whole block footprint. | count |
| **Street & intersection\*** |  |  |
| closeness500 | Local closeness centrality for the closest street to the building. Local closeness for a radius of 500 m around each node. Value for one edge/street are averages of the values at the two nodes/intersections. | [0, 1] |
| betweenness | Betweenness centrality of the closest street to the building. | [0, 1] |
| global\_closeness | Global closeness centrality of the closest street to the building. | [0, 1] |
| openness | Openness of the closest street to building. Proportion of the street where buildings are or not present on the sides of the street. | [0, 1] |
| width\_deviations | Standard deviation of the width of the closest street to the building. Width is defined here as the average distance between buildings on both sides of the street. | meters |
| widths\_street | Width of the closest street to the building. | meters |
| lengths\_stree | Length of the closest street to the building. | meters |
| distance\_road | Distance between the building and the closest street. | meters |
| distance\_intersection | Distance between the building and the closest intersection. | meters |
| **Street-based block\*** |  |  |
| street\_based\_block\_phi | Anisotropy index of the street-based block at the building location. | [0, 1] |
| street\_based\_block\_area | Area of the street-based block at the building location. | squared meter |

\* 50,200,500m buffer applied and mean and std were calculated.