Equivalent location of 10th boundary track where vertices are located such that track is tangent to a circle of radius: ((pad/2)-boundary). This gives optimal overlap of ensuing octagon at tangent but leaves openings at vertices. This is not evident on smaller pads because track width at vertice is sufficient to cover.


By using pad radius as the vertice radius in the octagon computation, overlap at the vertice is guaranteed to be $1 / 2$ track width minimum

