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Distance and Size (observability, identification, measurability, metric)

Metric, Distance and Size:

r = radial distance, d = diametral size

$$r\lambda = d^2 \cos^2(\vartheta) = \left(d \cdot \cos\left(\frac{\pi}{2} - \alpha\right)\right)^2 = \left(d \cdot \sin\left(\frac{\pi}{2} - \beta\right)\right)^2 \quad (1)$$