**ISCWSA**

**Probabilities of Collision or Crossing**

**Empirical Distribution**

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Nomenclature

Scaling factor - Scaling of standard ellipse (ellipsoid)

Flattening - Flattening of ellipse; (major-minor)/major

Probability - Probability of drilling on wrong side of limit line (plane)

Radius dist. - Distance from center to ellipse along Direction

Pedal distance - Distance from center to the ellipse’s pedal curve (surface) along Direction

Direction - Direction relative to major axis



Distribution of Empirical data is approximated by a Student-t distribution with 6 degrees of freedom.

