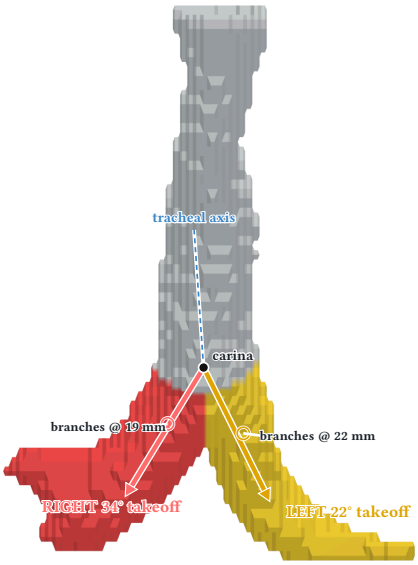
Airway Branch-Angle Report

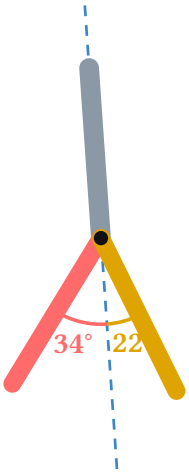
Research / engineering use only

Patient CAP-001 | CT CAP fullres 0.77x0.77x2.0 | 2026-06-10 | spacing 0.77 x 0.77 x 2.00 mm | fit length 20 mm

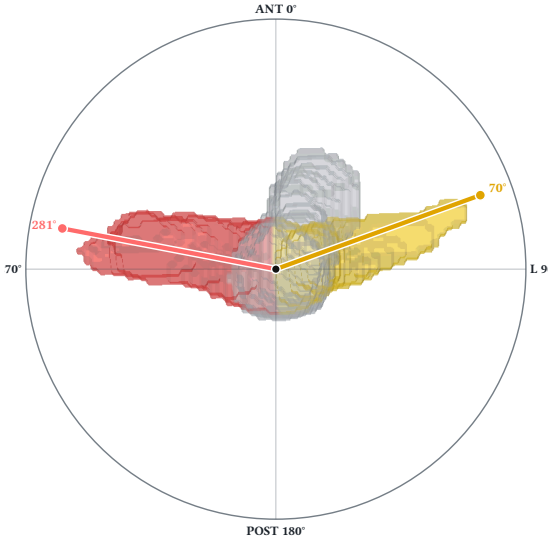
RAW 3D MESH – CORONAL (no smoothing, annotated)



BRANCH ANGLES – SCHEMATIC



AXIAL COMPASS – BEARING (ghost mesh, down the barrel)



MEASUREMENTS

	Takeoff (vs trachea)	Coronal (vs vertical)	Bearing	Main bronchus
RIGHT	34°	31°	281°	19 mm
LEFT	22°	26°	70°	22 mm
Subcarinal	54°			

Takeoff = 3D angle vs the fitted tracheal axis. Coronal = angle vs true vertical in the coronal plane (textbook metric, 25° R / 45° L). Bearing = down-the-barrel heading looking up the tracheal axis (the intubating view): anterior 0° at top, clockwise; placed in the same frame as the ghost mesh so the arrow sits on the lumen. Main bronchus = centerline length from carina to the first downstream branch (where the direction fit stops); "—" = no clean branch resolved in range.

QUALITY CONTROL OK Single connected component OK Carina located OK Two main bronchi at carina OK Voxel spacing 0.77 x 0.77 x 2.00 mm

Not for clinical decision-making. Raw segmentation mesh shown without smoothing so defects remain visible.