## S0272502 SuK Fiber Collimator Characterization 20 × 10<sup>-4</sup> 2025-06-03 (Pre-Bake); Near Field Measured Data, X Fit, X (w0x, z0x) = (0.89576, 1.4017) [mm,m]Fit Waist, w0x waist at zRx (+ z0x); w(zR+z0x) = sqrt(2)\*w0xDivergence, waist at end = (end - z0x)\*atan( $\lambda / [\pi * w0x]$ ) Measured Data, Y Fit, Y 15 (w0y, z0y) = (0.90912, 1.3496) [mm,m] Fit Waist, w0y waist at zRy (+ z0y); w(zR+z0y) = sqrt(2)\*w0yDivergence, waist at end = (end - z0y)\*atan( $\lambda / [\pi * w0y]$ ) Beam Waist [m] 5 0 2 3 5 6 0 Distance From Collimator [m]

S0272502 SuK Fiber Collimator Characterization  $7 \stackrel{\times}{\vdash} 10^{-3}$ 2025-06-03 (Pre-Bake); Far Field Measured Data, X Fit, X (w0x, z0x) = (0.89576, 1.4017) [mm,m]Fit Waist, w0x 6 waist at zRx (+ z0x); w(zR+z0x) = sqrt(2)\*w0xDivergence, waist at end = (end - z0x)\*atan( $\lambda / [\pi * w0x]$ ) Measured Data, Y Fit, Y (w0y, z0y) = (0.90912, 1.3496) [mm,m] Fit Waist, w0y 5 waist at zRy (+ z0y); w(zR+z0y) = sqrt(2)\*w0yDivergence, waist at end = (end - z0y)\*atan( $\lambda / [\pi * w0y]$ ) Beam Waist [m] 2 0 2 6 8 10 12 14 16 18 20 0

Distance From Collimator [m]