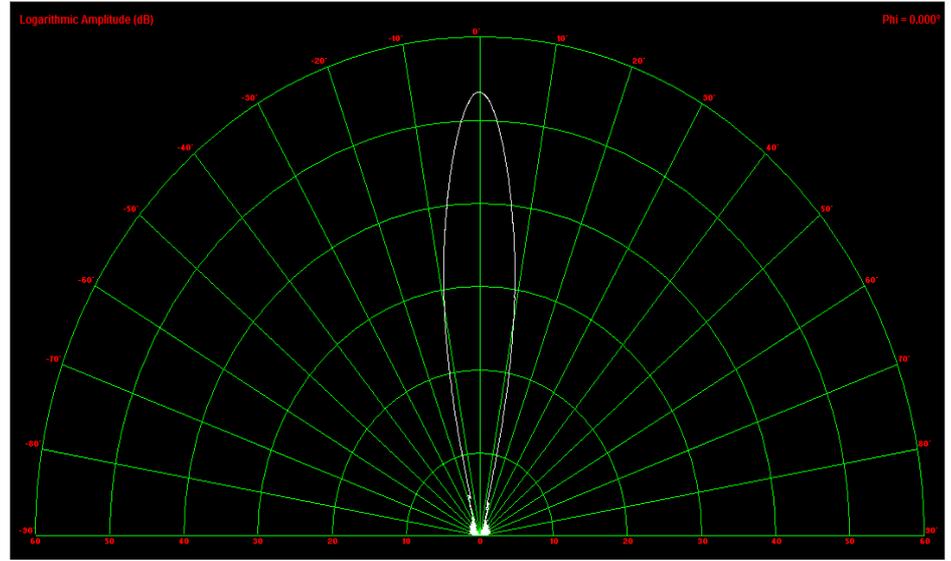
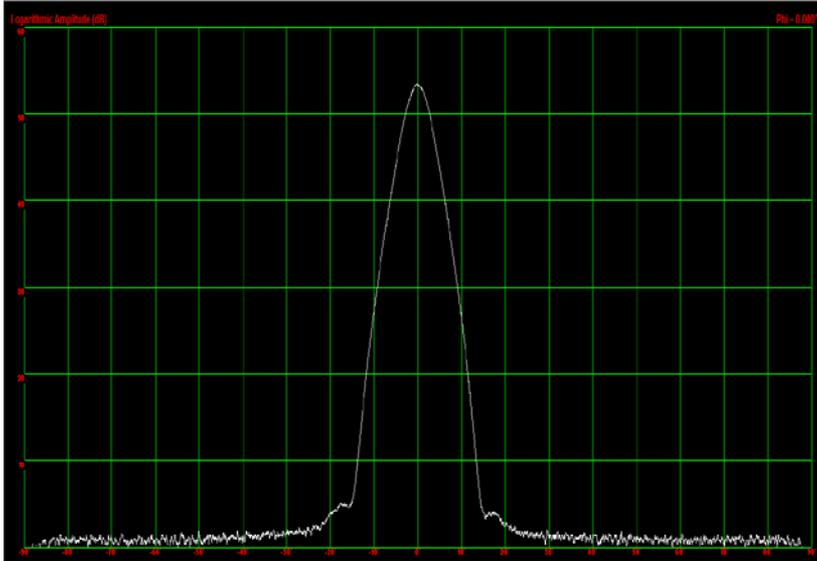




AFL Fiber Lens Products Samples

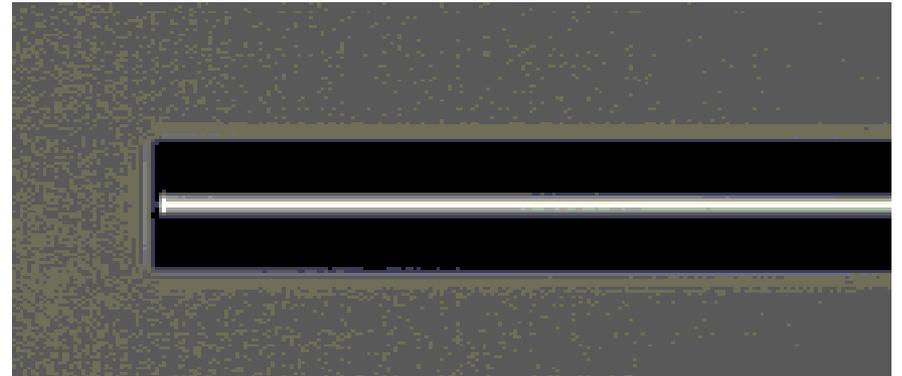
5/19/2015

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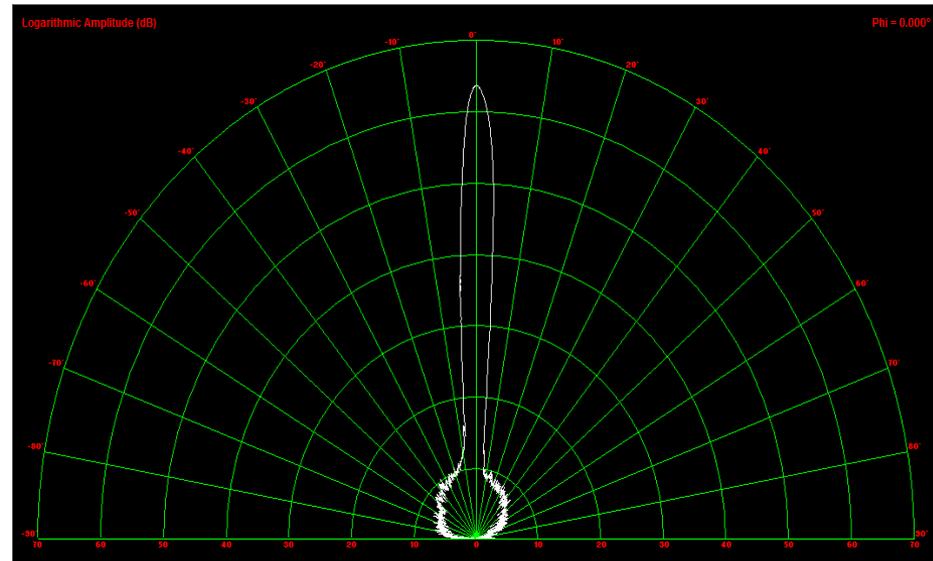
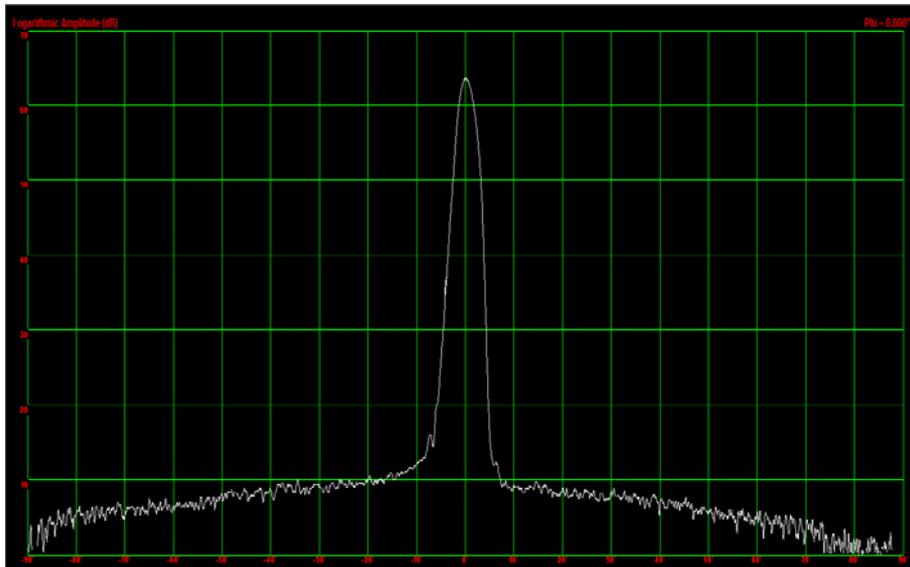
Beam Statistics 5 samples - Photon Inc.

Parameter	Value
1.0% Numerical Aperture at 0.0°	0.144
Mode-Field Diameter at 0.0° (μm)	10.39
Effective Area at 0.0° (μm ²)	82.42



- Flat cleave of SMF28 measured at 1550 nm as baseline. Fiber end curvature radius = ∞

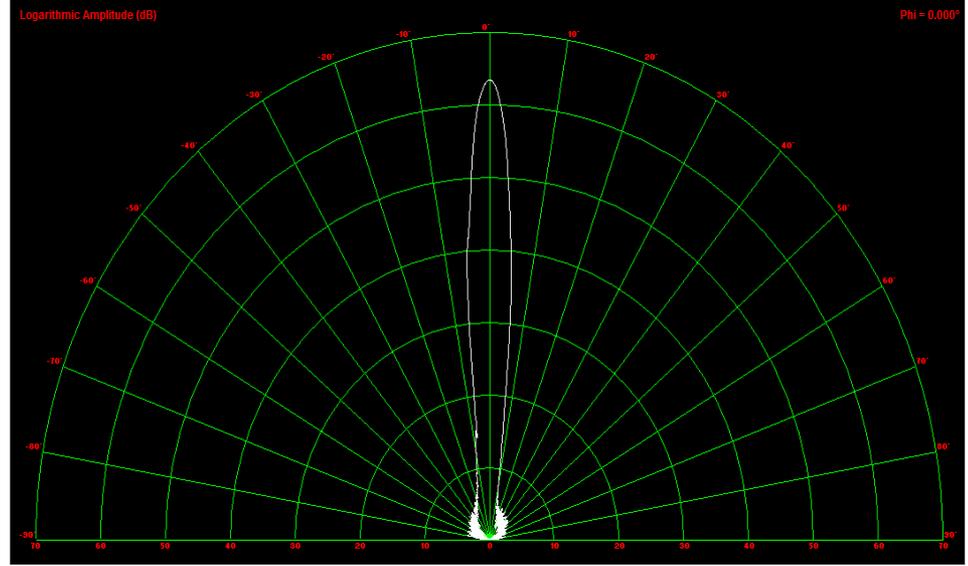
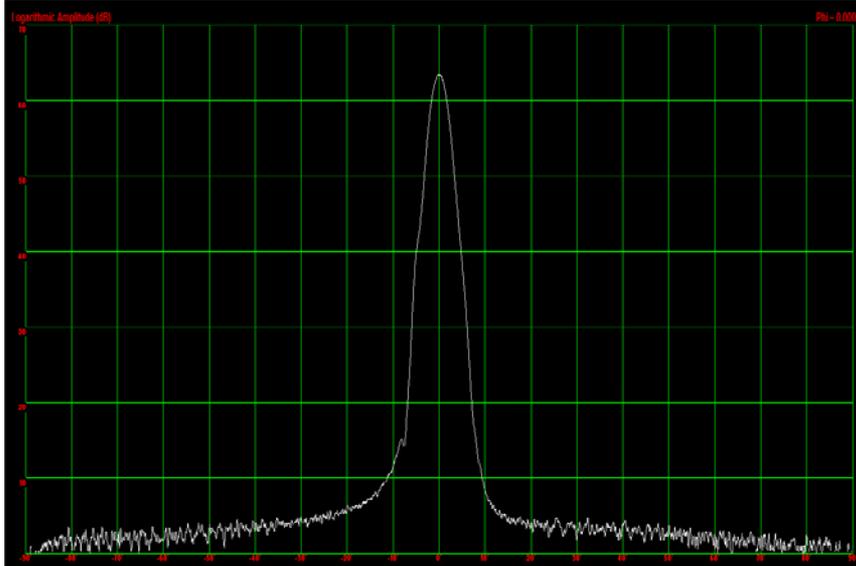
400 um ball lens no taper with SMF28



SMF28 measured at 1550 nm.
Fiber end curvature radius = 200
um. Incident angle $\approx 3.4^\circ$

Parameter	Value
1.0% Numerical Aperture at 0.0°	0.060
Mode-Field Diameter at 0.0° (μm)	20.86
Effective Area at 0.0° (μm ²)	463.87

300 um ball lens no taper with SMF28

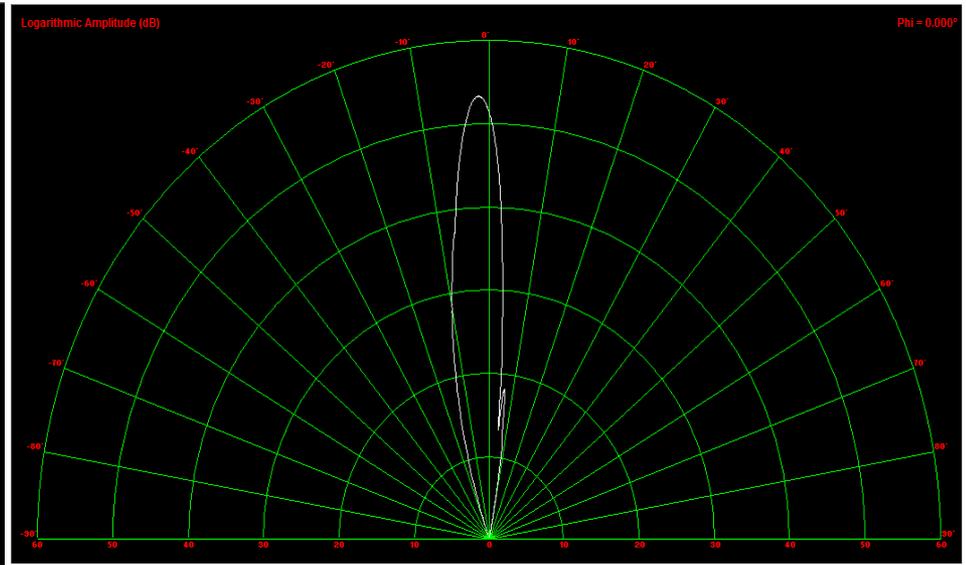
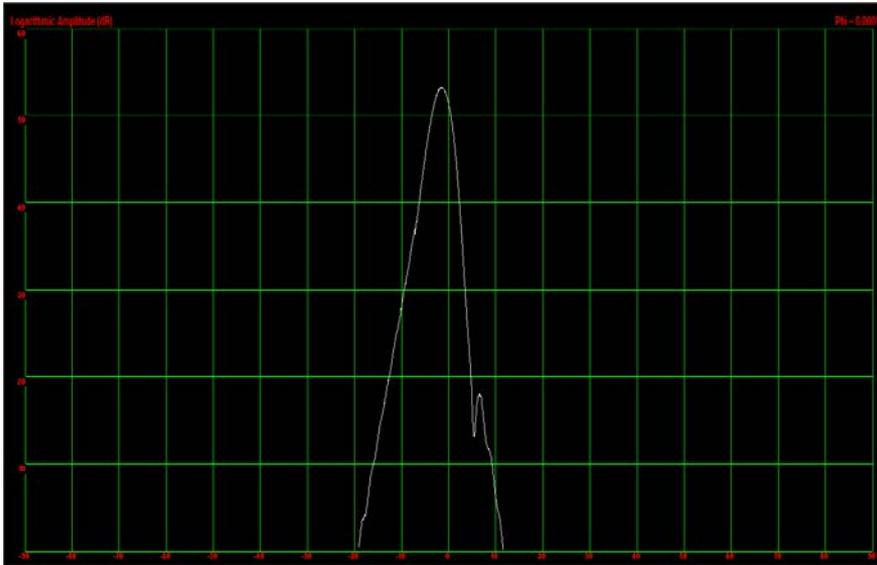


SMF28 measured at 1550 nm.
Fiber end curvature radius = 150
um. Incident angle $\approx 4.2^\circ$

Beam Statistics 5 samples - Photon Inc.

Parameter	Value
1.0% Numerical Aperture at 0.0°	0.074
Mode-Field Diameter at 0.0° (μm)	19.75
Effective Area at 0.0° (μm ²)	313.42

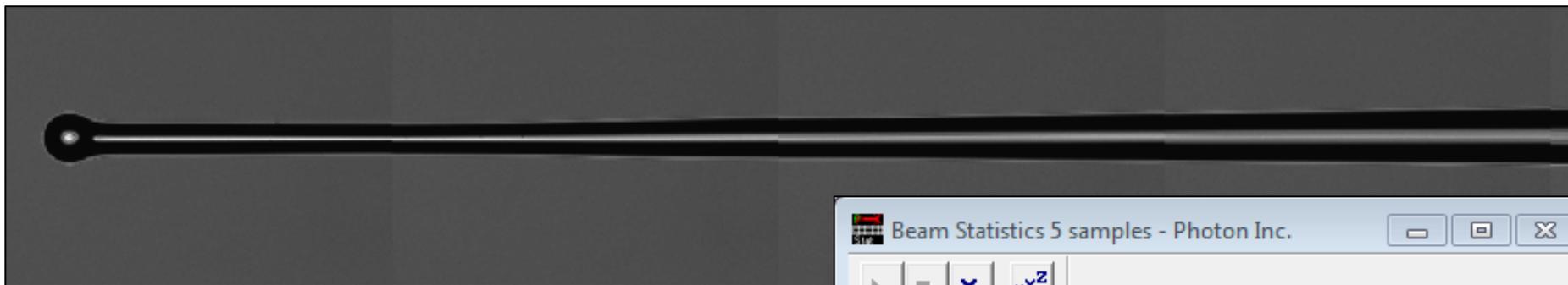
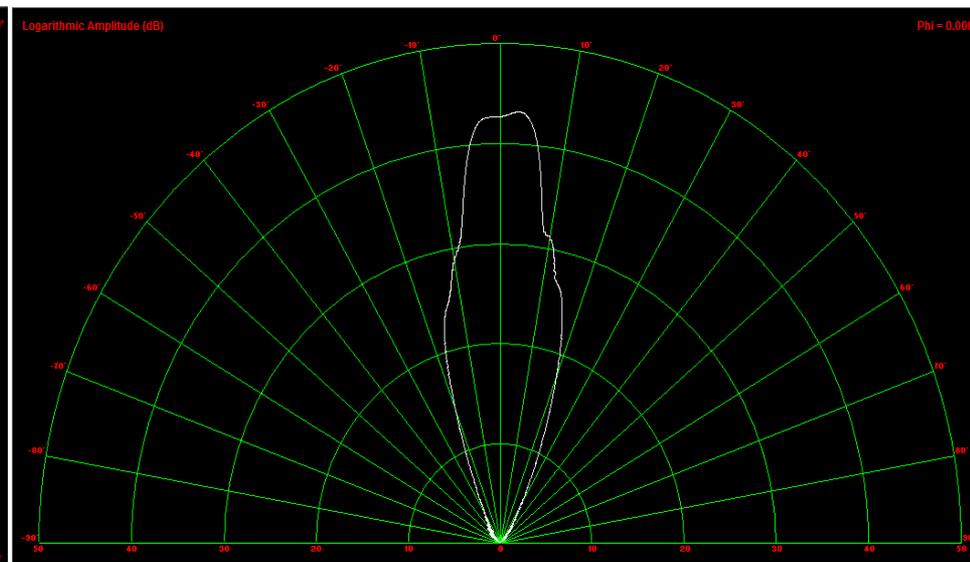
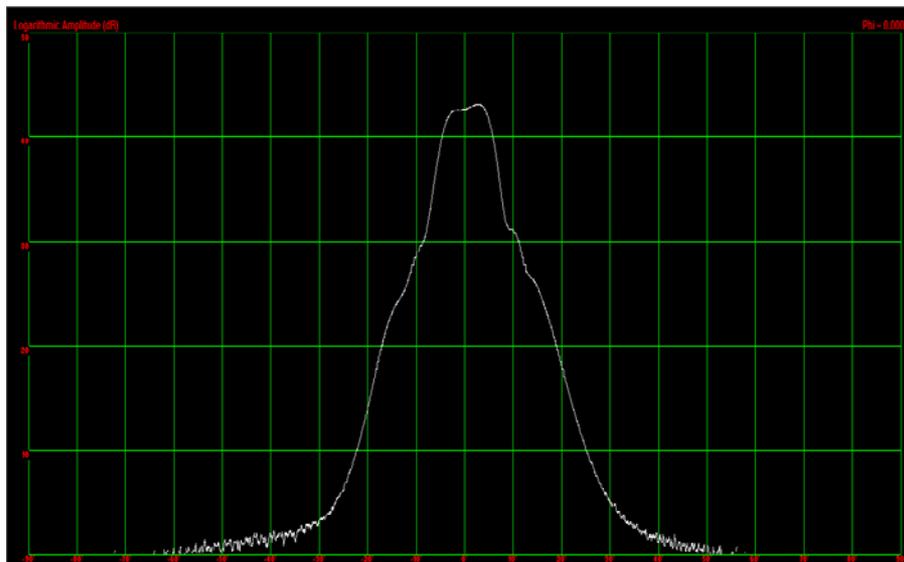
200 um ball lens no taper with SMF28



SMF28 measured at 1550 nm.
Fiber end curvature radius = 100 um.
Incident angle $\approx 5.7^\circ$

Parameter	Value
1.0% Numerical Aperture at 0.0°	0.100
Mode-Field Diameter at 0.0° (μm)	14.22
Effective Area at 0.0° (μm ²)	145.12

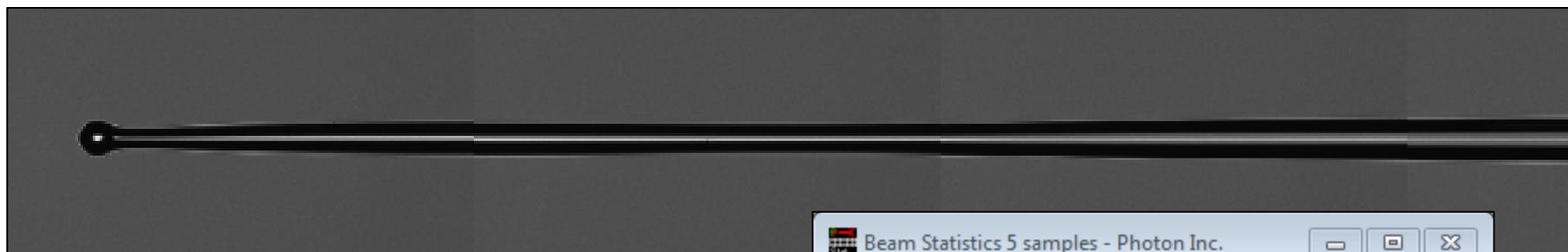
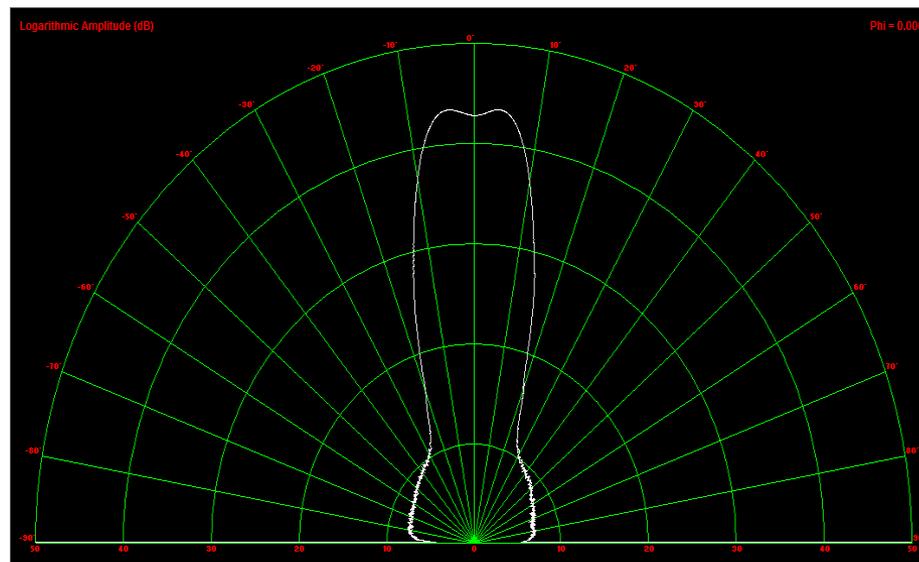
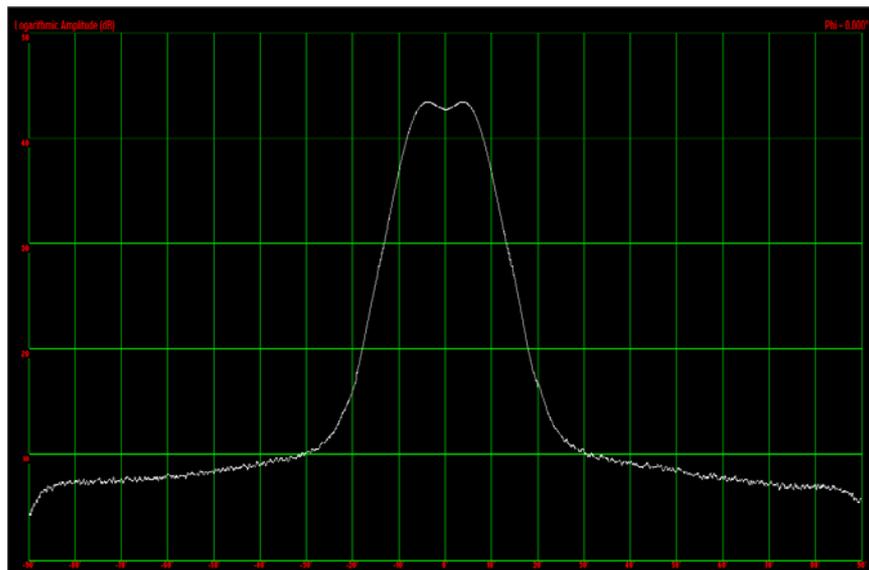
100 um ball lens with 3mm tapered SMF28



Tapered SMF28 measured at 1550 nm. Fiber end curvature radius = 50 um. Incident angle $\approx 16^\circ$

Parameter	Value
1.0% Numerical Aperture at 0.0°	0.275
Mode-Field Diameter at 0.0° (μm)	5.93
Effective Area at 0.0° (μm ²)	22.73

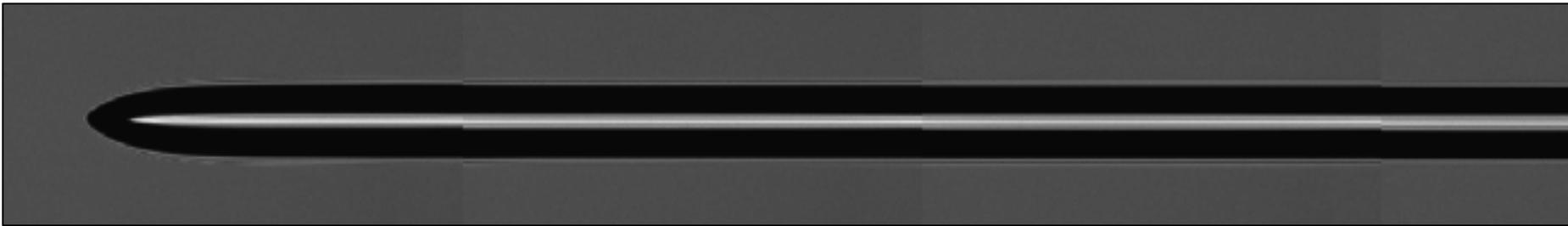
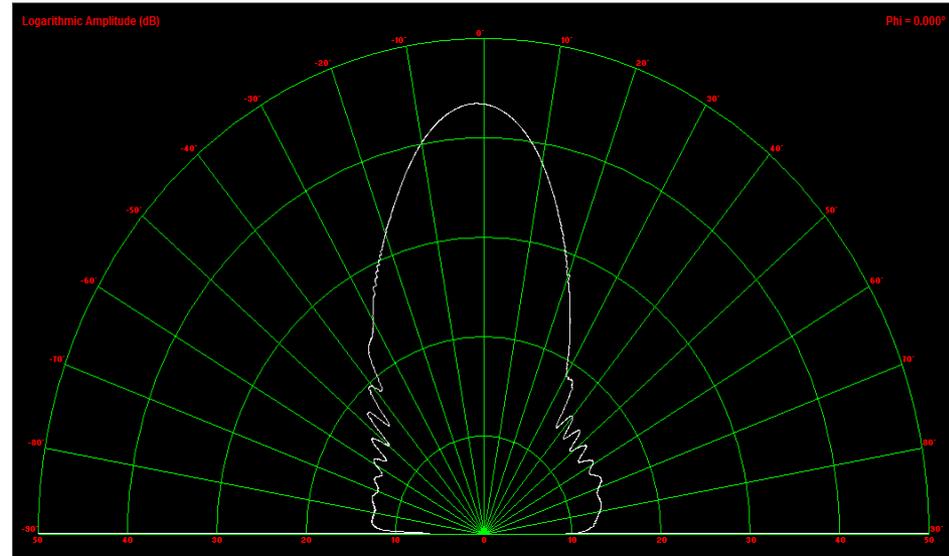
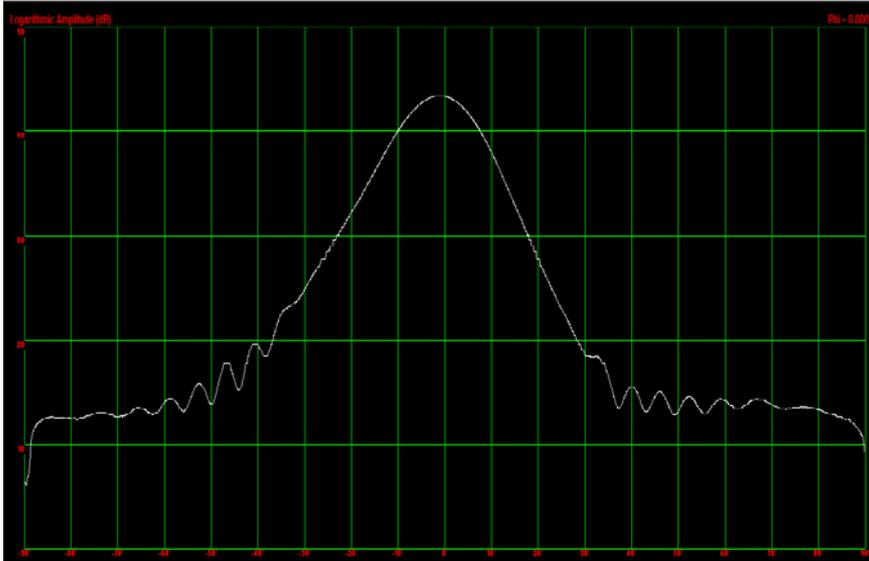
50 um ball lens with 3mm tapered SMF28



Tapered SMF28 measured at 1550 nm. Fiber end curvature radius = 25 um. Incident angle $\approx 16^\circ$

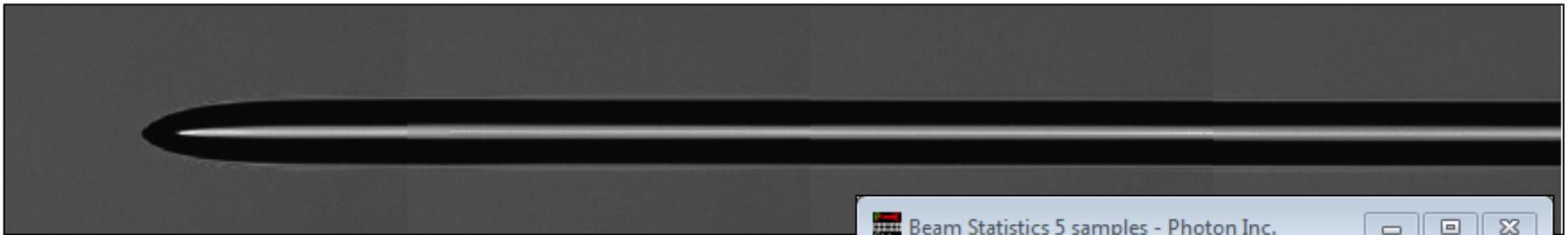
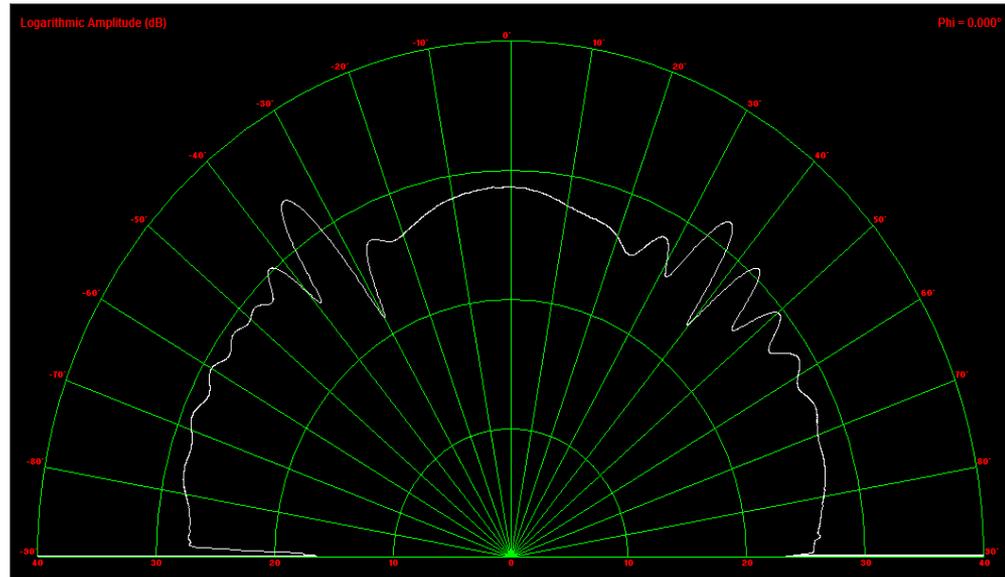
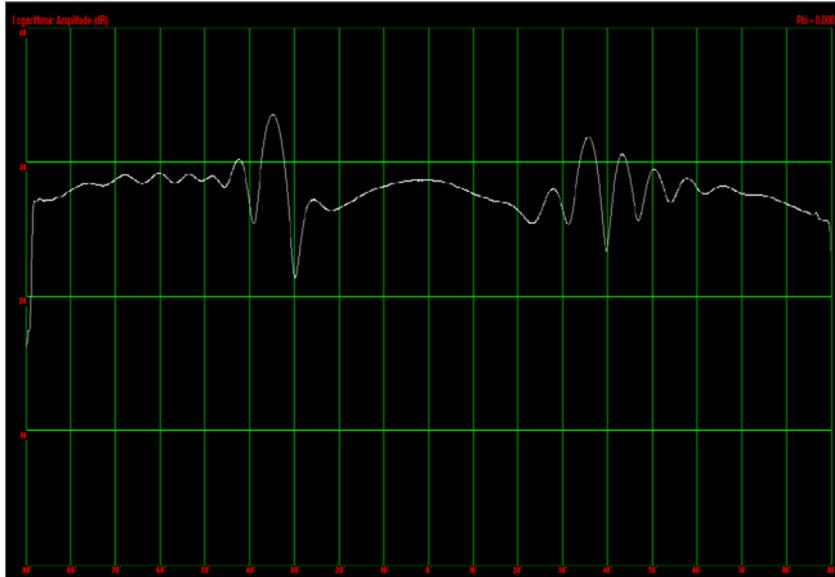
Beam Statistics 5 samples - Photon Inc.

Parameter	Value
1.0% Numerical Aperture at 0.0°	0.283
Mode-Field Diameter at 0.0° (μm)	5.19
Effective Area at 0.0° (μm ²)	14.80



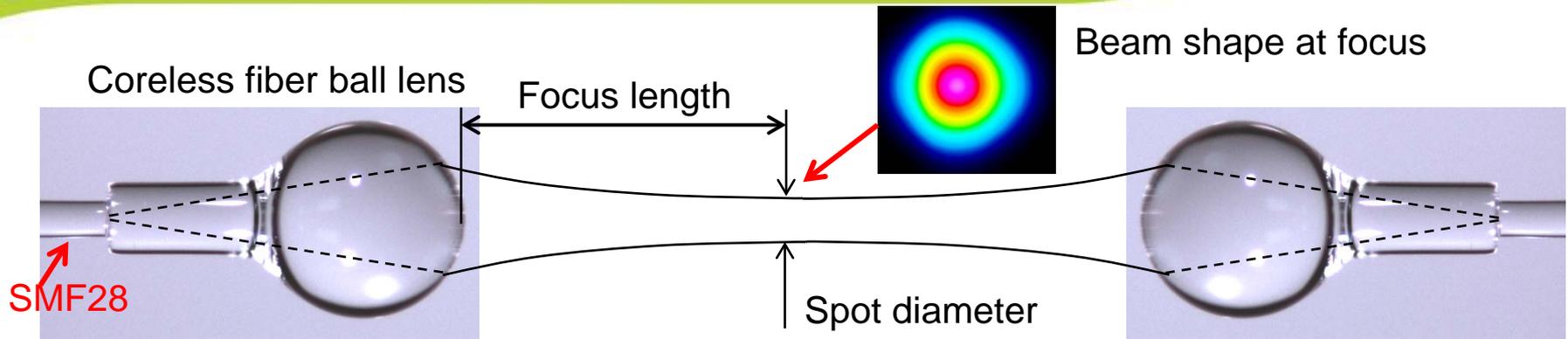
SMF28 measured at 1550 nm.
Fiber end curvature radius = 10
um. Incident angle $\approx 28^\circ$

Parameter	Value
1.0% Numerical Aperture at 0.0°	0.478
Mode-Field Diameter at 0.0° (μm)	3.21
Effective Area at 0.0° (μm ²)	8.33

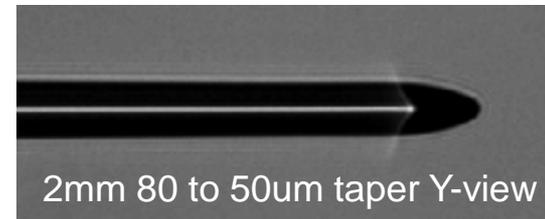
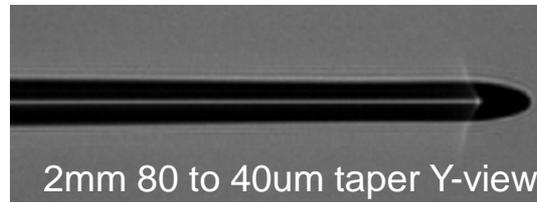
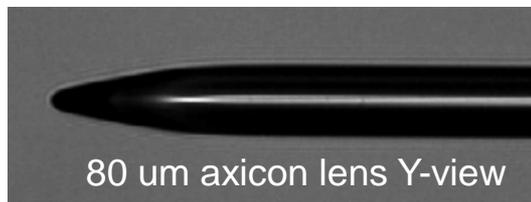


SMF28 measured at 1550 nm.
Fiber end curvature radius = 10
um. Incident angle > 90°

Parameter	Value
1.0% Numerical Aperture at 0.0°	1.000
Mode-Field Diameter at 0.0° (μm)	0.95
Effective Area at 0.0° (μm ²)	12.80



- Touchless connectors
- End-cap for fiber laser systems
-



- MRI-guided laser ablation system which enable minimally invasive, image-guided, ablative surgical procedures
- Waveguide or laser chip coupling
- **AFL can do much more different lenses based on your requests**