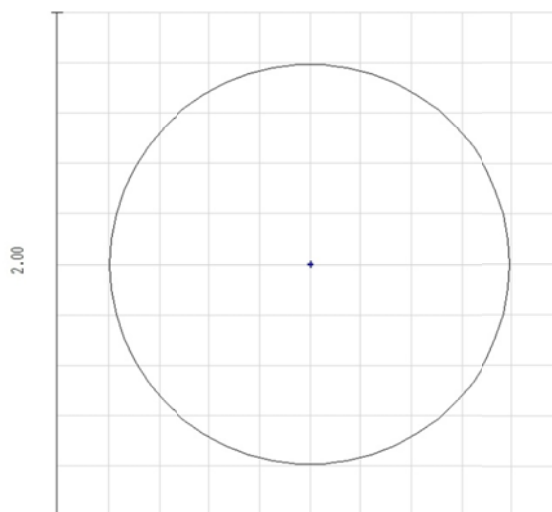


Spot Diagrams for Laser Quality Molded Glass Aspheric Lens N414

At Design Wavelength 670 nm

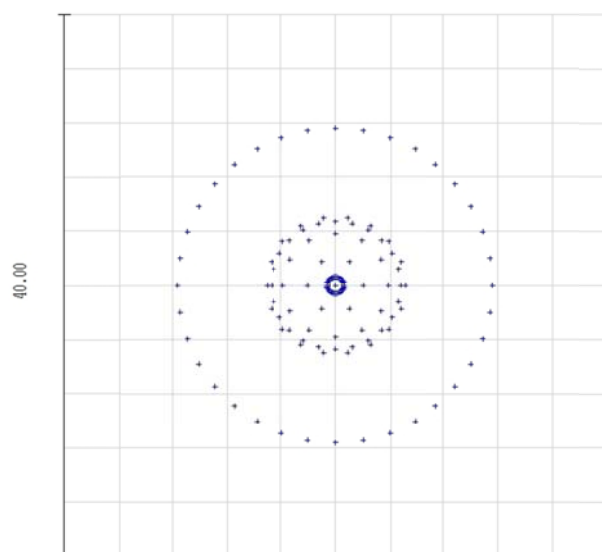
RMS Radius = 0.794 μm



Spot Diagrams for A-Coated Lens:

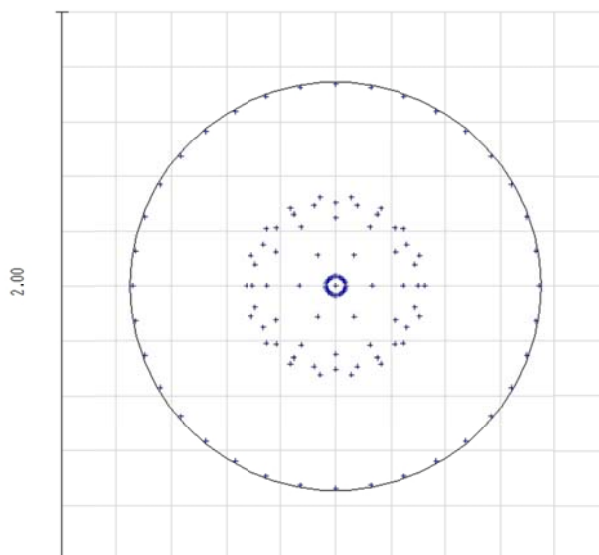
405 nm

RMS Radius = 0.4563 μm



633 nm

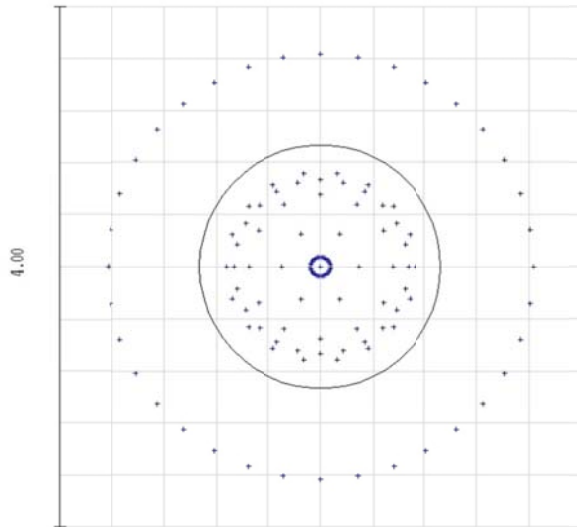
RMS Radius = 0.7476 μm



Spot Diagrams for B-Coated Lens:

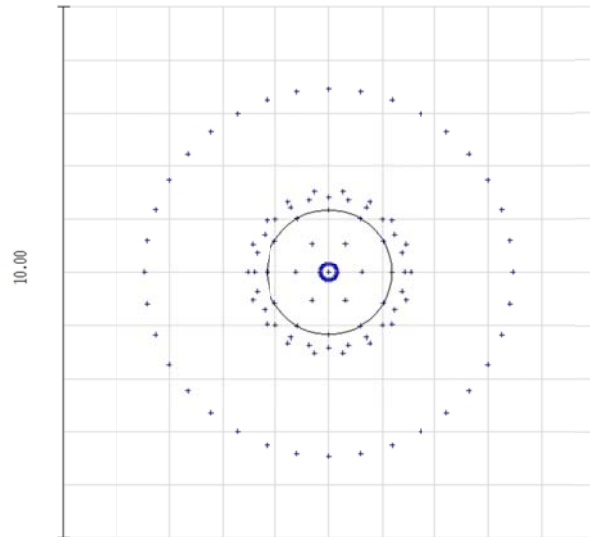
780 nm

RMS Radius = 0.9314 μm



980 nm

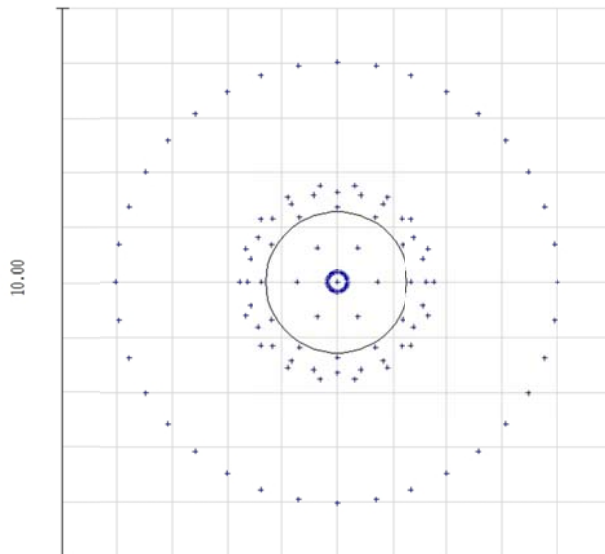
RMS Radius = 1.18 μm



Spot Diagrams for C-Coated Lens:

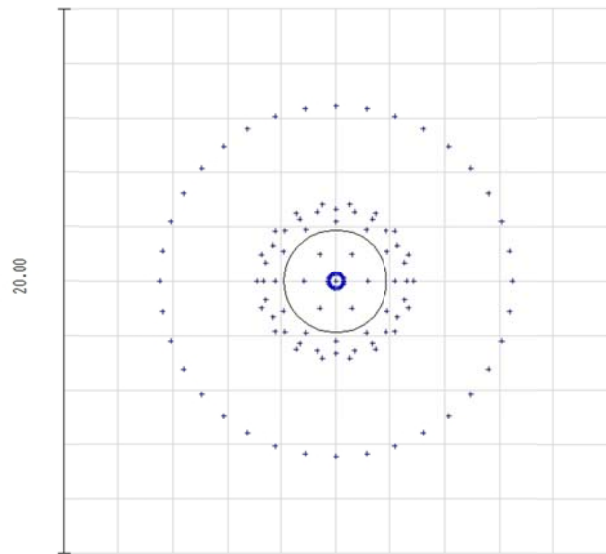
1064 nm

RMS Radius = 1.285 μm



1550 nm

RMS Radius = 1.895 μm



Chromatic Focal Shift

Maximum Focal Shift Range: 241.634 μm (365-1620 nm)

Diffraction Limited Range: 2.529 μm

N414 Focal Length Shift

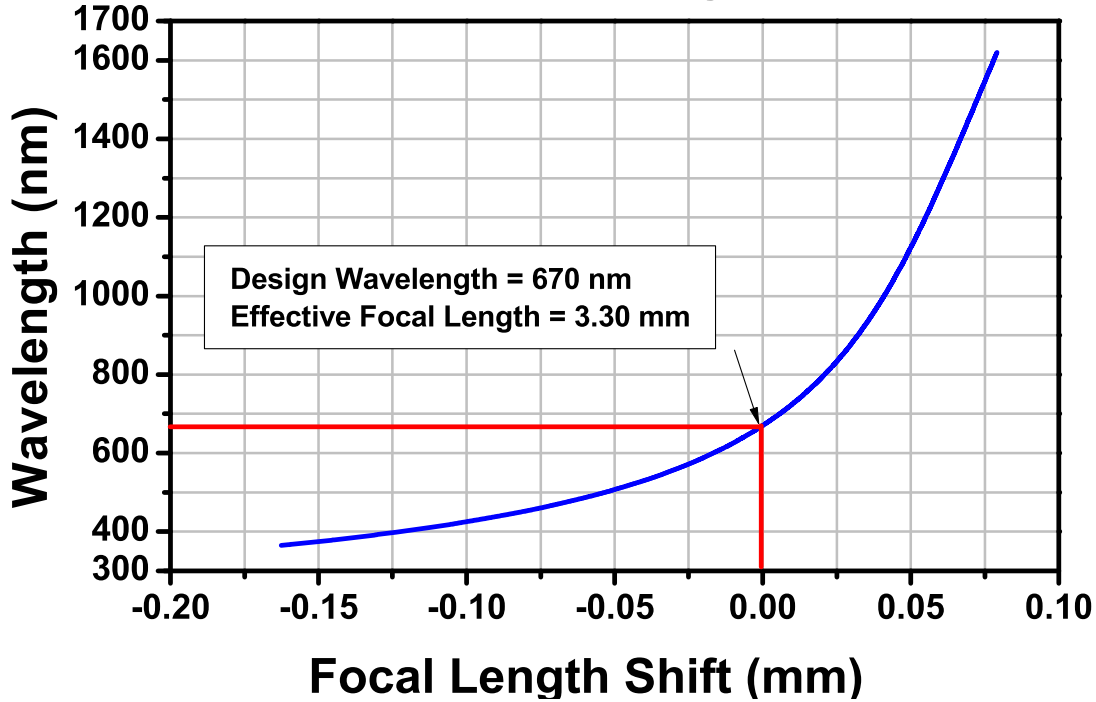


Table Showing Focal Length at Various Laser Line Wavelengths

Wavelength (nm)	Focal Length (mm)
405	3.18
633	3.29
670*	3.30
780	3.31
810	3.32
830	3.32
980	3.34
1064	3.34
1550	3.37

*Design Wavelength