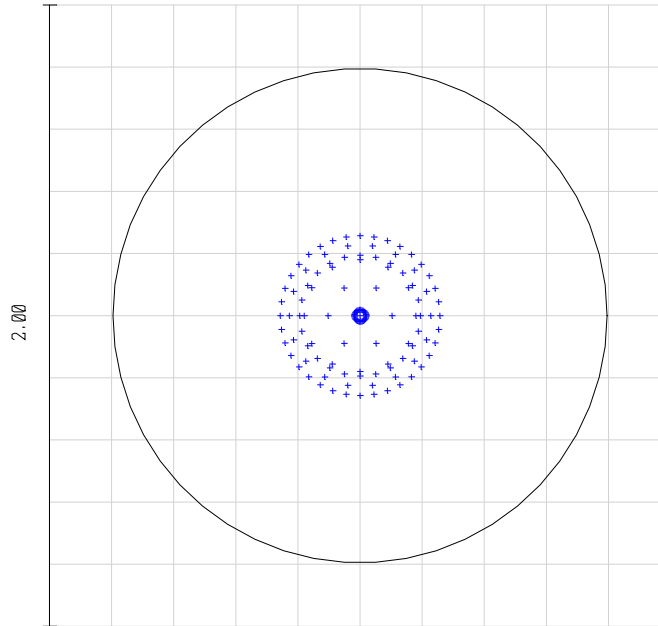


Spot Diagrams for Laser Quality Molded Glass Aspheric Lens A414

Note: Black circle on plots indicates Airy Disk.

At Design Wavelength 670 nm

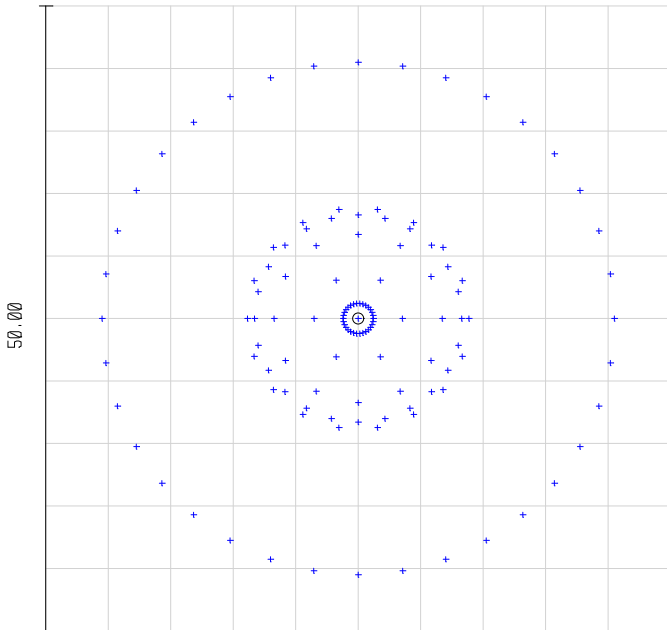
RMS Radius = 0.19 μm



Spot Diagrams for A-Coated Lens (A414-A)

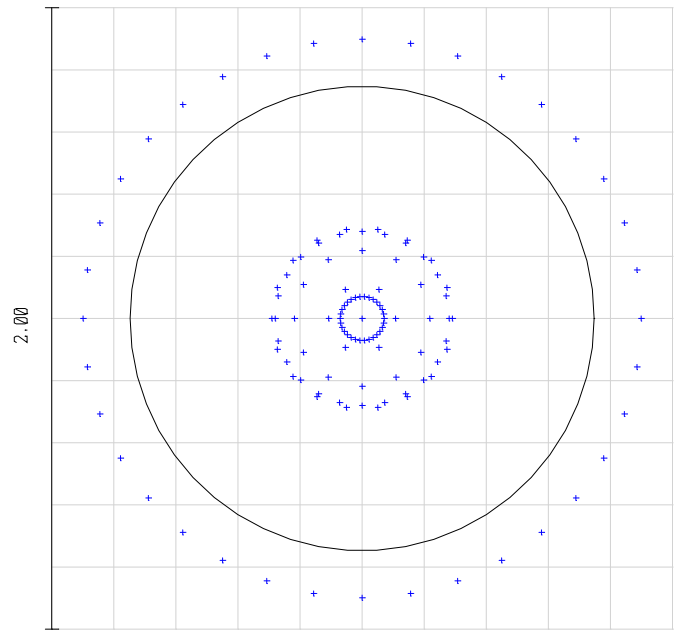
405 nm

RMS Radius = 12.18 μm



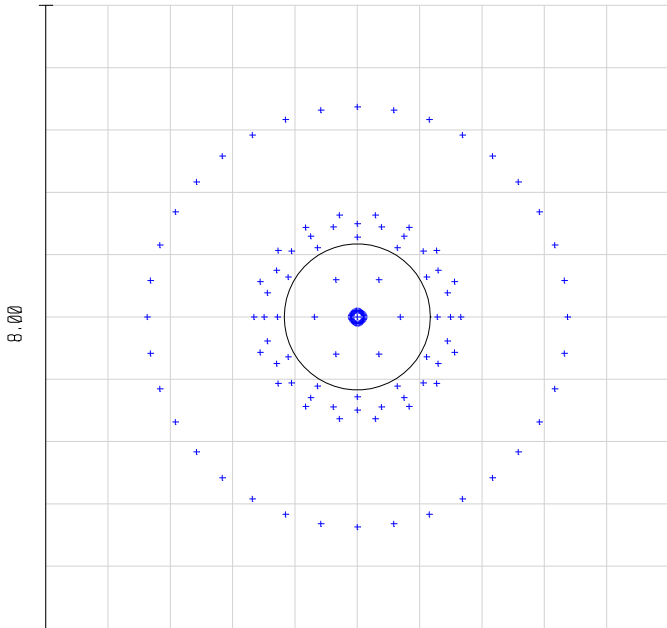
633 nm

RMS Radius = 0.46 μm

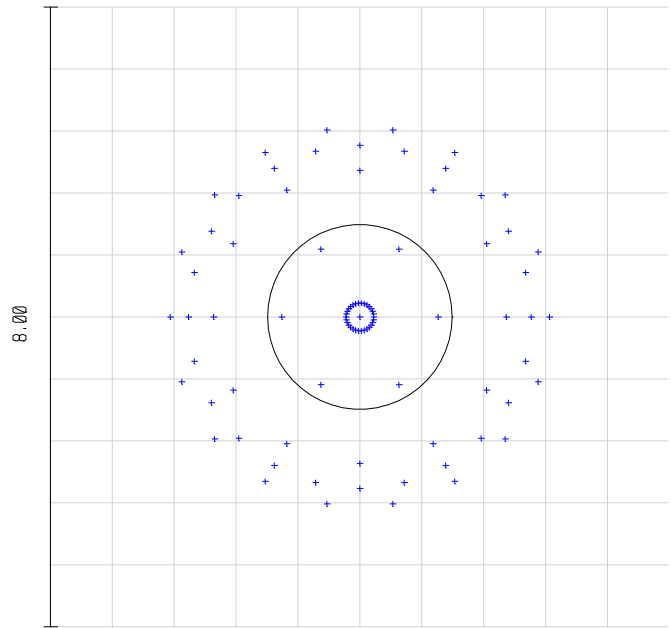


Spot Diagrams for B-Coated Lens (A414-B)

780 nm
RMS Radius = 1.64 μm

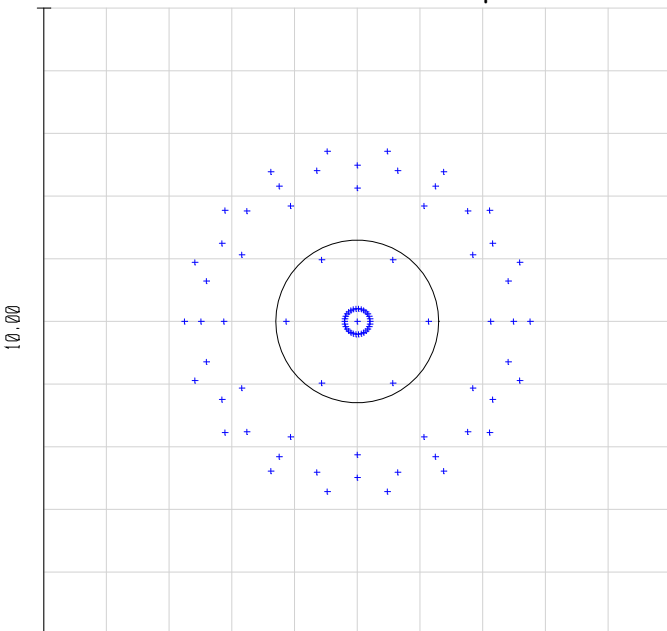


980 nm
RMS Radius = 1.74 μm

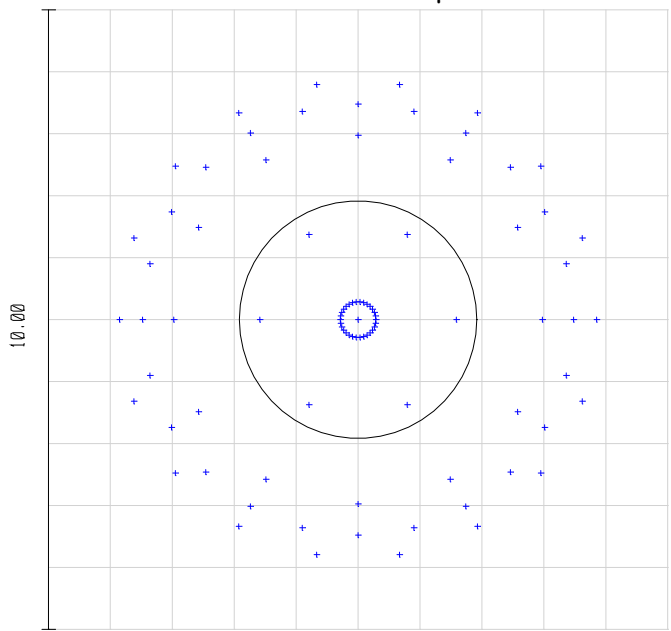


Spot Diagrams for C-Coated Lens (A414-C)

1064 nm
RMS Radius = 1.96 μm



1550 nm
RMS Radius = 2.74 μm



Chromatic Focal Shift

Maximum Focal Shift Range: 436.21 μm (350 – 1620 nm)

Diffraction Limited Range: 2.54 μm

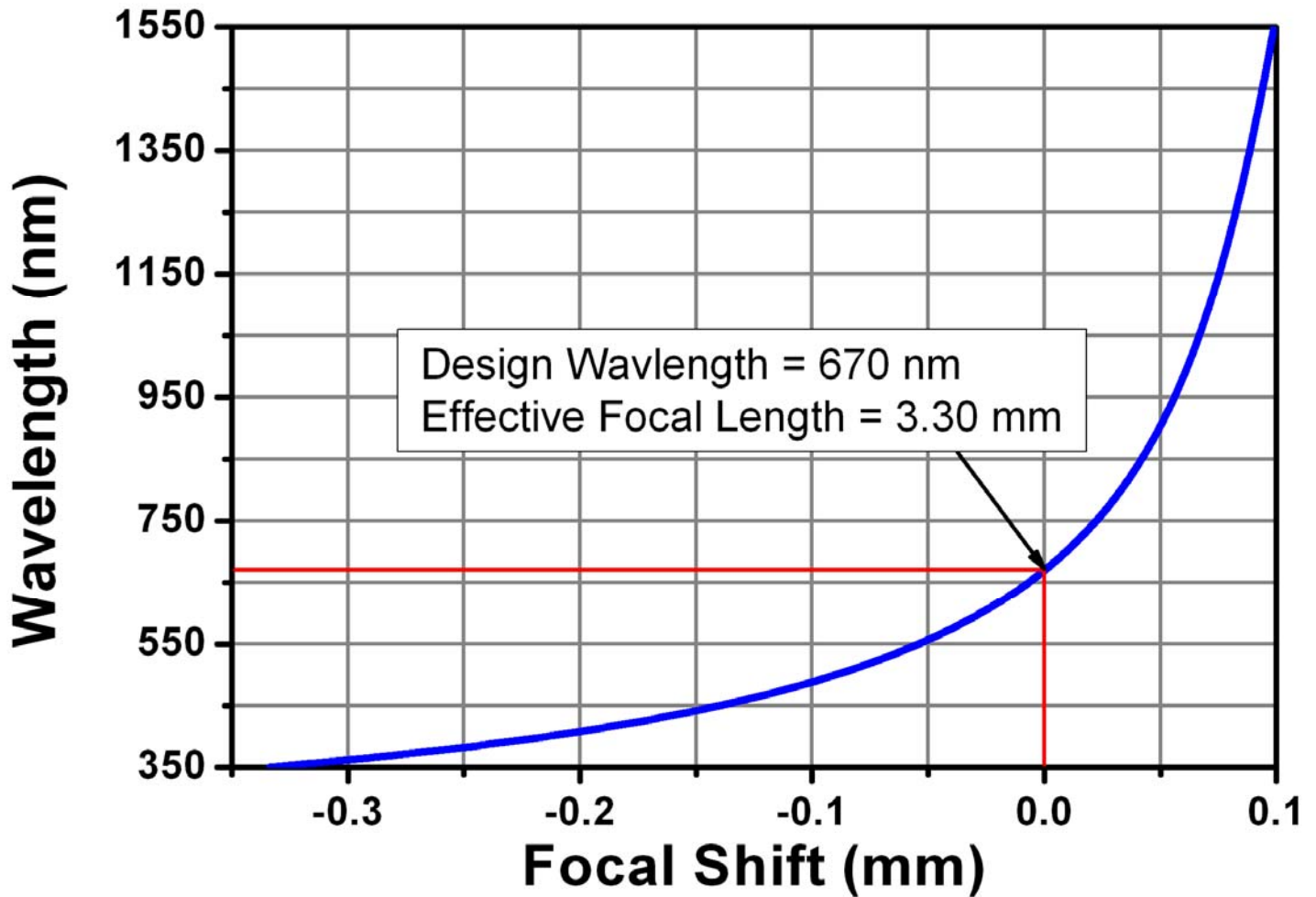


Table showing the focal length at various laser line wavelengths

Wavelength (nm)	Focal Length (mm)
405	3.055
633	3.285
670 ¹	3.300
780	3.335
810	3.342
830	3.346
980	3.371
1064	3.381
1550	3.418

¹ Design Wavelength