

| RADIUS | | | RADIUS ERROR | ROUGHNESS | IRREGULARITY | CA | CT | WD | NA | DESIGN WAVELENGTH | EFL | WAVEFRONT |
|--------|---------|----|--------------|-----------|------------------------------|--------|-------------|-------|-----|-------------------|-----------|--------------------------------|
| S1 | ASPHERE | CX | ± 0.005 mm | <10nm RMS | <316.5nm P-V <105.5nm RMS | ∅ 1.10 | 0.708±0.030 | 0.610 | 0.5 | 1550 | 1.05±1.0% | < 0.150 WAVES RMS @ 633.0nm |
| S2 | ASPHERE | CX | ± 0.005 mm | <10nm RMS | <316.5nm P-V <105.5nm RMS | ∅ 0.84 | | | | | | |

| REVISION HISTORY | | | | |
|------------------|------|------------------------|----------|----------|
| REV | DCO | DESCRIPTION | DATE | INITIALS |
| A | 3176 | INITIAL RELEASE | 07/27/12 | BAUZ |
| B | 4056 | SI SAG ∅ 1.30 WAS 1.14 | 01/13/15 | DS |

NOTES: UNLESS OTHERWISE SPECIFIED

- OA1- IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.
- OA2- IS THE THEORETICAL OPTIC AXIS OF THE SECOND OPTIC SURFACE.
- MATERIAL: D-ZLAF52LA
- ASPHERIC SURFACES ARE DEFINED BY:

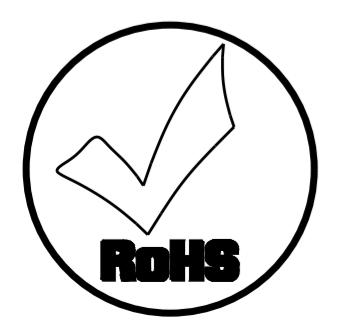
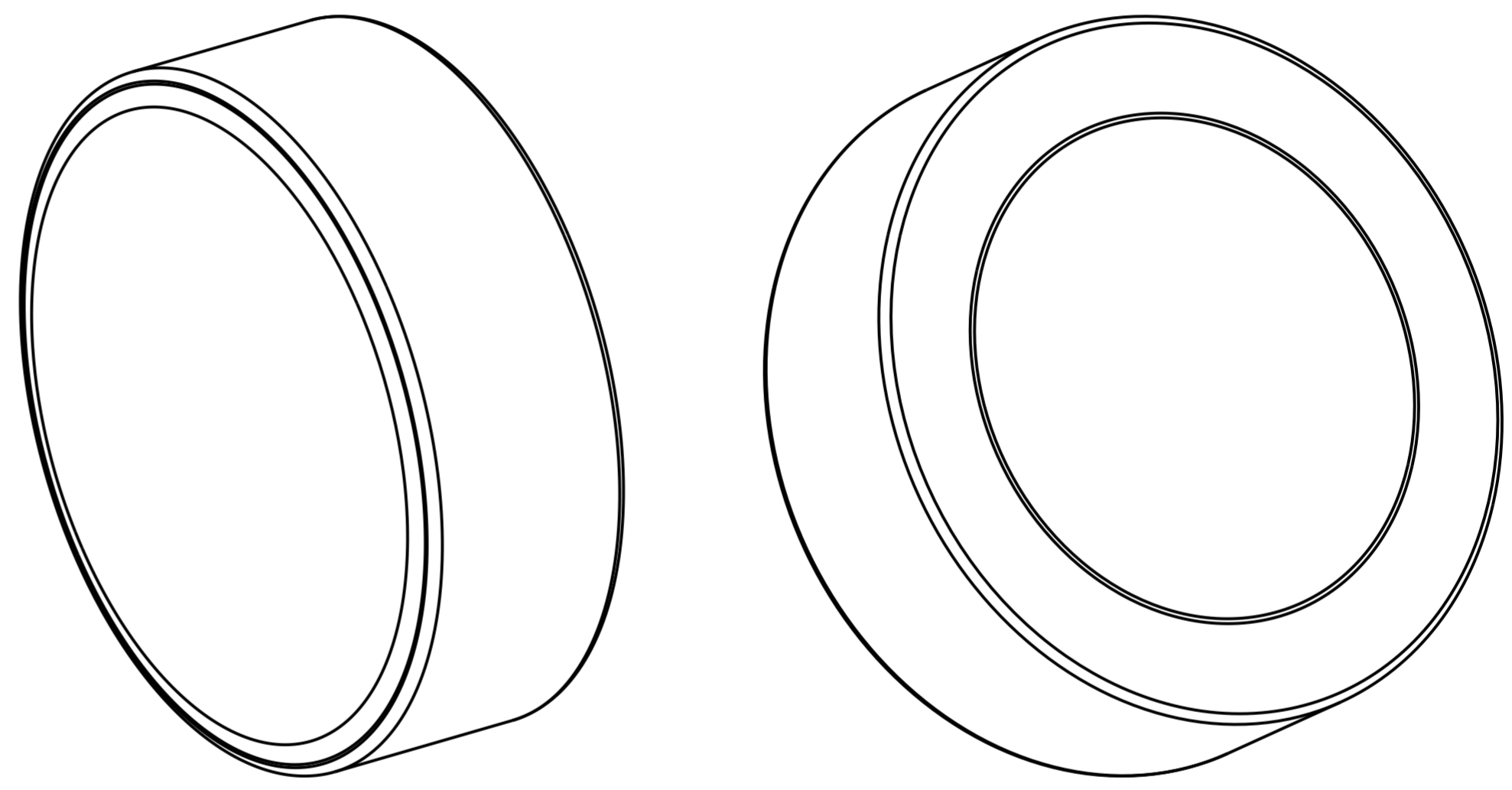
$$Z(Y) = \frac{y^2}{R \cdot (1 + \sqrt{1 - (1+K) \cdot y^2 / R^2})^{0.5}} + A_2 \cdot Y^2 + A_4 \cdot Y^4 + A_6 \cdot Y^6 + A_8 \cdot Y^8 + A_{10} \cdot Y^{10} + A_{12} \cdot Y^{12} + A_{14} \cdot Y^{14} + A_{16} \cdot Y^{16}$$

WHERE: Y= RADIAL DISTANCE FROM VERTEX IN mm

5. SURFACE DEFINITIONS:

| | SURFACE 1 | SURFACE 2 |
|-----------------|--------------|--------------|
| RADIUS | 0.894224 | -6.170143 |
| K | -0.156983 | 0.000000 |
| A ₂ | 0.000000E0 | 0.000000E0 |
| A ₄ | -1.204282E-1 | -1.308396E-1 |
| A ₆ | -1.890173E-1 | 2.408468E-1 |
| A ₈ | -2.196994E-1 | -3.136919E-1 |
| A ₁₀ | 0.000000E0 | 0.000000E0 |
| A ₁₂ | 0.000000E0 | 0.000000E0 |
| A ₁₄ | 0.000000E0 | 0.000000E0 |
| A ₁₆ | 0.000000E0 | 0.000000E0 |

- THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER MIL-PRF-13830B AS PROVIDED IN LIGHTPATH SPECIFICATION: 9000776.
- THIS ELEMENT IS USED AS A COLLIMATING LENS. TEST METHODS AND FREQUENCIES ARE DEFINED AS PROVIDED IN LIGHTPATH SPECIFICATION: 9000776.



UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MM.
DECIMAL TOLERANCES ARE:
.X ± 0.25
.XX ± 0.10
.XXX ± 0.025
.XXXX ± 0.013
ANGLES: ± 0.5°

DRAWN
BAUZ\ORL

MATERIAL
SEE NOTES

SOFTWARE
Pro/ENGINEER

LightPath
2603 CHALLENGER TECH CT. SUITE 100
ORLANDO, FL 32826

PROPRIETARY INFORMATION
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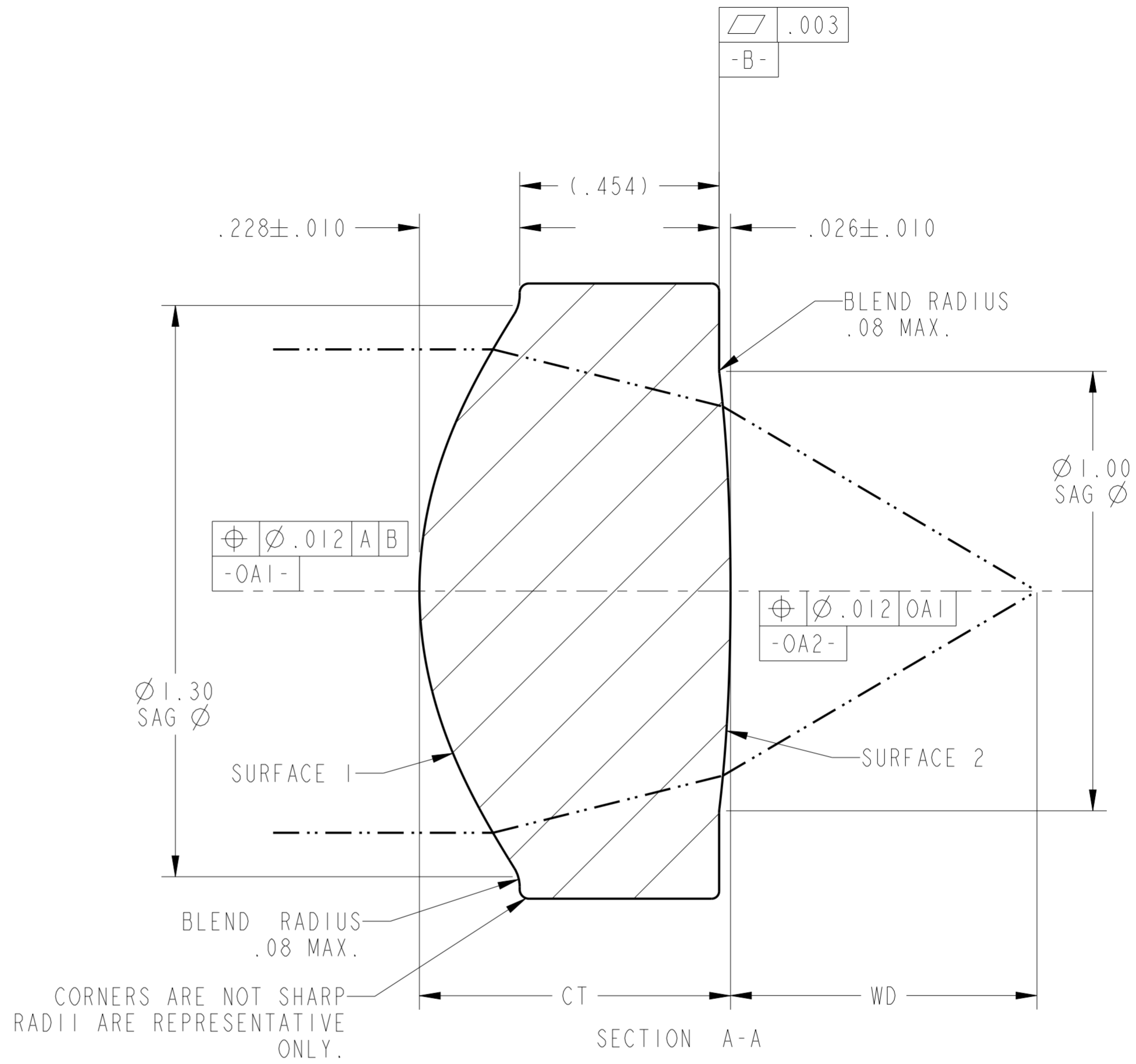
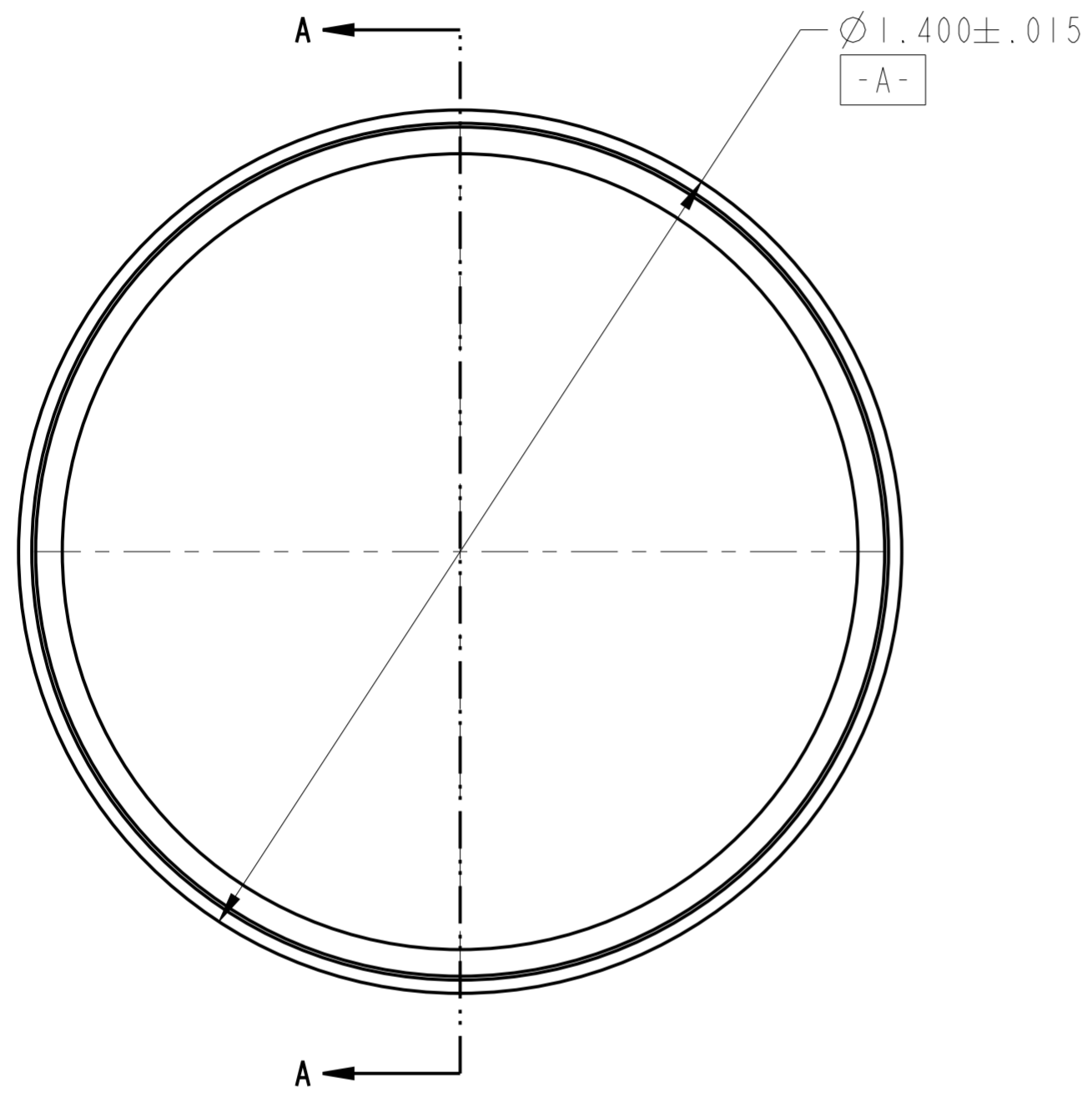
TITLE
LENS CODE 355198

SIZE A2 DWG NO 0355198 REV B

SCALE: 90.00 THIRD ANGLE PROJECTION SHEET 1 OF 2

DWG NO 0355198

| REVISION HISTORY | | | | |
|------------------|-----|-------------|------|----------|
| REV | DCO | DESCRIPTION | DATE | INITIALS |
| SEE SHEET 1 | | | | |



CORNERS ARE NOT SHARP
RADIi ARE REPRESENTATIVE ONLY.

LightPath
TECHNOLOGIES

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ORLANDO, FL 32826

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| | | | |
|------------------|---------|------------------------|--------------|
| TITLE | | | |
| LENS CODE 355198 | | | |
| SIZE | DWG NO | REV | |
| A2 | 0355198 | B | |
| SCALE: | 100.00 | THIRD ANGLE PROJECTION | SHEET 2 OF 2 |

DWG NO
0355198

SH 2

REV B