

NOTES: UNLESS OTHERWISE SPECIFIED

1. **-OAI-** IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.

2. ASPHERIC SURFACES ARE DEFINED BY:

$$z(r) = \frac{r^2/R_c}{1 + \sqrt{1 - (1+K)(r/R_c)^2}} + \sum_i A_{2i}r^{2i}$$

WHERE: Y= RADIAL DISTANCE FROM VERTEX IN mm

3. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	PLANO
SHAPE	CX	PL
CA	∅1.70	∅1.18
R _C	0.969000	PLANO
K	-0.999200	0.000000
A ₂	0.000000E0	0.000000E0
A ₄	7.037500E-2	0.000000E0
A ₆	1.248300E-2	0.000000E0
A ₈	4.109400E-3	0.000000E0
A ₁₀	-3.636400E-3	0.000000E0
A ₁₂	0.000000E0	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

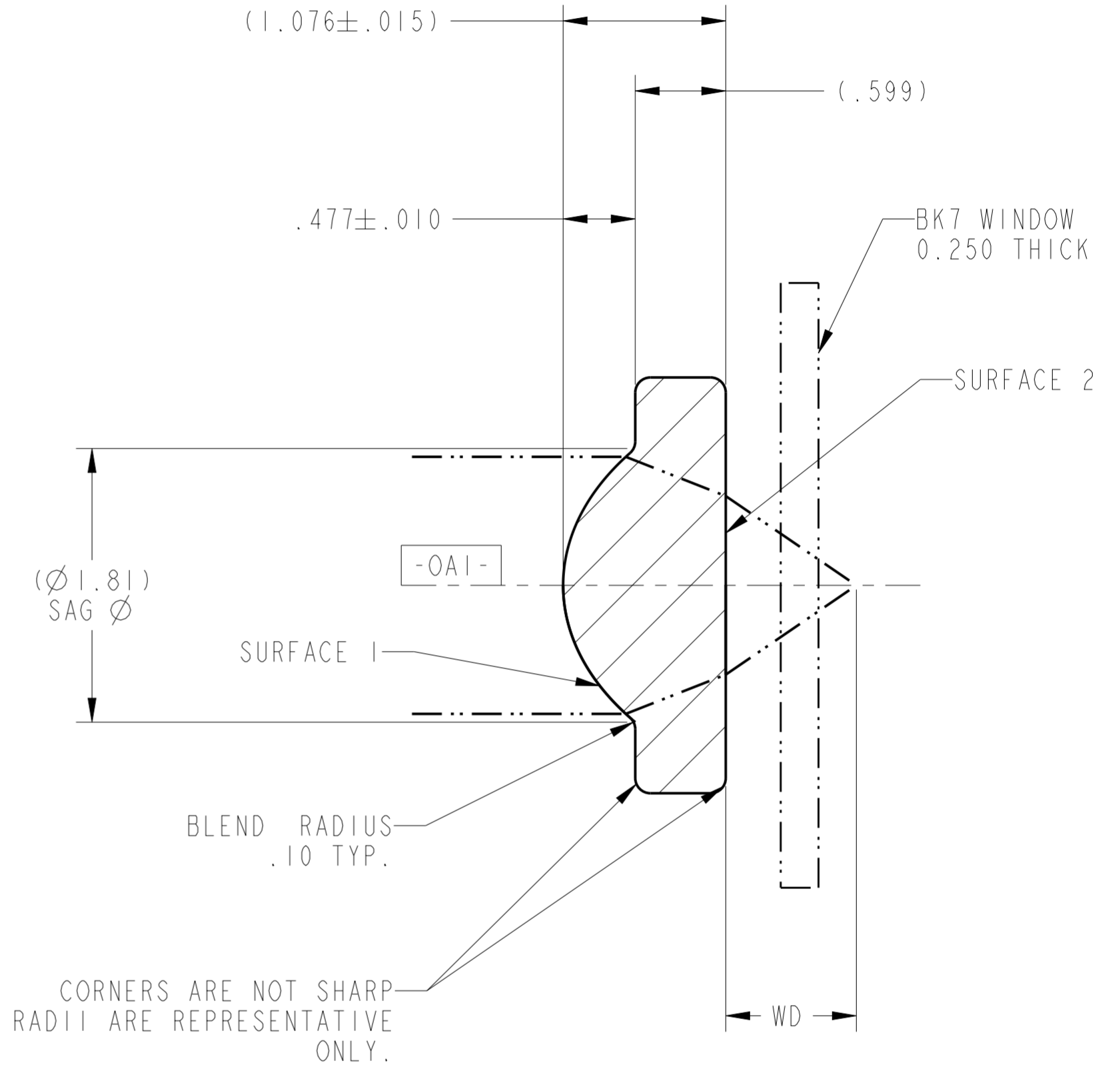
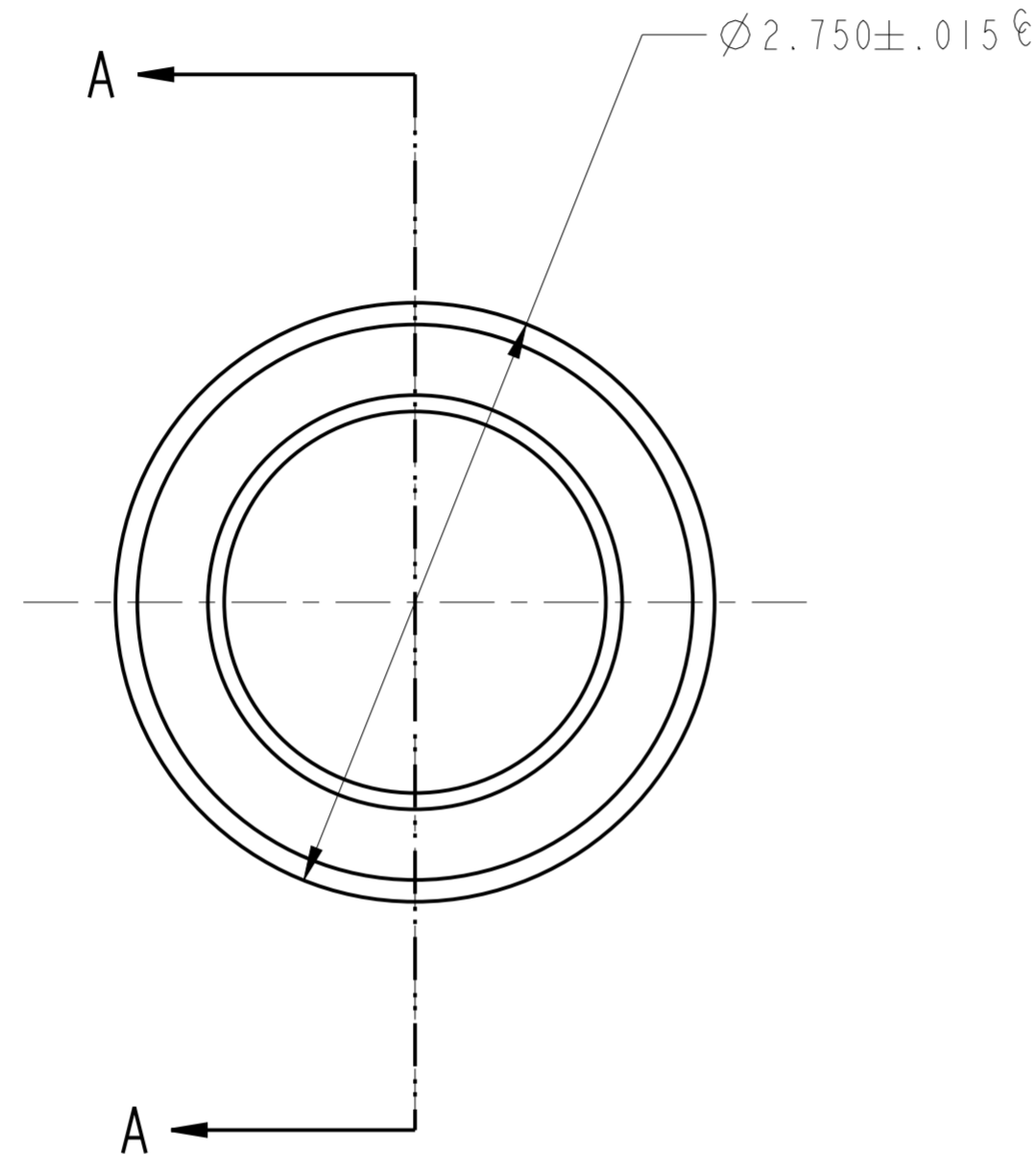
4. NOMINAL DESIGN PARAMETERS.

DESIGN WAVELENGTH	488 nm
W.D.	0.9 mm
N.A.	0.6
E.F.L.	1.4mm ± 1.0%

5. FEATURES IDENTIFIED AS Ⓢ ARE CRITICAL CHARACTERISTICS. CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.

6. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER LIGHTPATH PWI INS-8.2-05P6. Ⓢ
-00: S/D: 20/10

7. THIS ELEMENT IS USED AS A COLLIMATING LENS.
WAVEFRONT ERROR: @ 100% APERTURE < 0.070 WAVES RMS @ 632.8nm;
@ 50% APERTURE < 0.250 WAVES P-V
PER LIGHTPATH PWI INS-8.2-13. Ⓢ



SECTION A-A

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	2227	INITIAL RELEASE	03/10/10	ASYMMONS
B	4391	UPDATED FORMAT	12/29/15	PL
C	4569	CHANGED NOTE 7: FROM 100% TO 50% APERTURE < 0.250, REMOVED COMA NOTE, CHANGED PWI INS-8.2-03 TO INS-8.2-13.	8/4/16	CL

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°

LightPath
TECHNOLOGIES

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PROPRIETARY INFORMATION
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF LIGHTPATH TECHNOLOGIES AND IS NOT TO BE DISCLOSED OR REPRODUCED IN WHOLE OR PART, OR USED FOR MANUFACTURING FOR ANYONE OTHER THAN LIGHTPATH TECHNOLOGIES WITHOUT ITS WRITTEN CONSENT. NO RIGHT IS GRANTED TO DISCLOSE OR USE ANY INFORMATION CONTAINED IN SAID DOCUMENT.

DRAWN
ASYMMONS\ORL

TITLE
LENS CODE 356785

MATERIAL
L-LAL12(m)

SIZE
A2

DWG NO
0356785

REV
C

SOFTWARE
Pro/ENGINEER

SCALE:
30.00

THIRD ANGLE PROJECTION



SHEET
1 OF 1



REV C
SH 1
DWG NO 0356785