

F

E

D

C

B

A

NOTES: UNLESS OTHERWISE SPECIFIED

1. -OA1- IS THE THEORETICAL OPTIC AXIS OF THE FIRST OPTIC SURFACE.
2. -OA2- IS THE THEORETICAL OPTIC AXIS OF THE SECOND OPTIC SURFACE.
3. 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: r= RADIAL DISTANCE FROM VERTEX IN mm

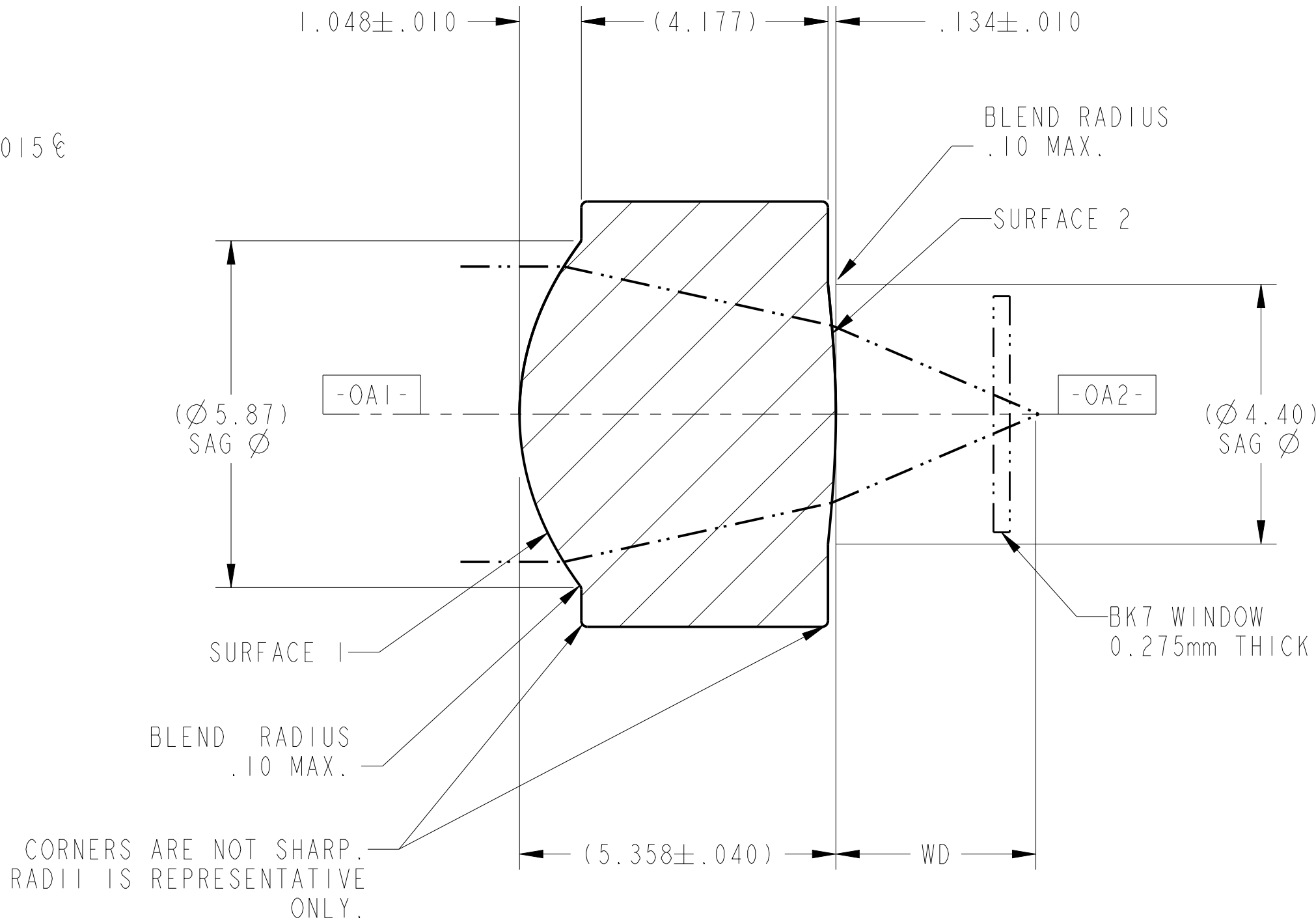
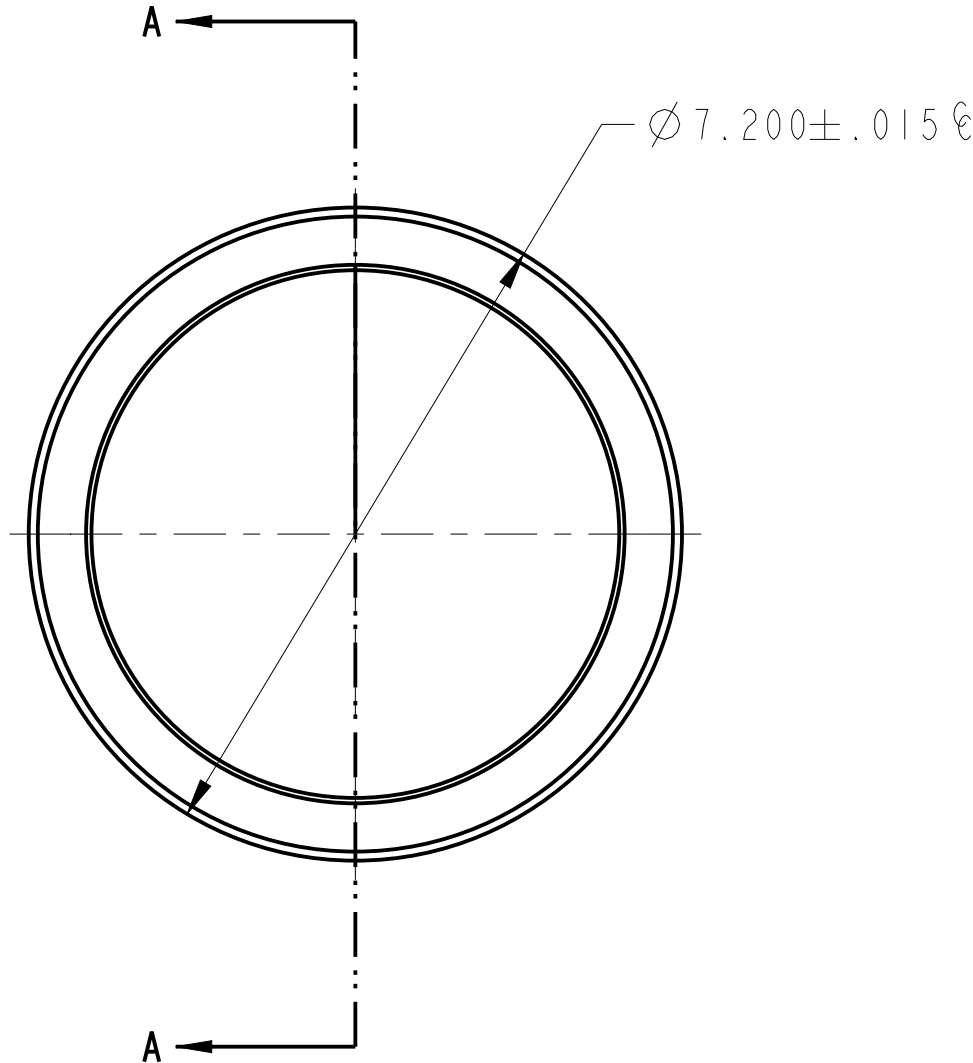
4. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	ASPHERE
SHAPE	CX	CX
CA	Ø5.00	Ø3.00
R _C	4.328382	-14.451577
K	-0.846880	-105.232117
A ₂	0.000000E0	0.000000E0
A ₄	5.215120E-4	-1.059367E-3
A ₆	-6.876623E-6	7.692587E-5
A ₈	0.000000E0	0.000000E0
A ₁₀	0.000000E0	0.000000E0
A ₁₂	0.000000E0	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

5. NOMINAL DESIGN PARAMETERS:

DESIGN WAVELENGTH	780 nm
W.D.	3.44 mm
N.A.	0.4
E.F.L.	6.2mm

6. FEATURES IDENTIFIED AS Ⓢ ARE CRITICAL CHARACTERISTICS.
CRITICAL CHARACTERISTICS ARE GUARANTEED IN PRODUCTION.
7. 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: 40/20.
8. THIS ELEMENT IS USED AS A COLLIMATING LENS.
WAVEFRONT ERROR: @ 100% APERTURE < 0.087 WAVES RMS @ 632.8nm.
@ 50% APERTURE < 0.270 WAVES P-V
PER LIGHTPATH PWI INS-8.2-03. Ⓢ



SECTION A-A

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 2603 CHALLENGER TECH CT., SUITE 100 ORLANDO, FL 32826		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 INEWCOMB\ORL		TITLE LENS CODE 352110			
MATERIAL ECO550(m)		SIZE A2	DWG NO 0352110		REV E
SOFTWARE Pro/ENGINEER		SCALE: 12.00	THIRD ANGLE PROJECTION 		SHEET 1 OF 1

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	1010	INITIAL RELEASE	06/10/05	ABS
B	1175	REMOVE BLEND R & ADD 5.870	10/04/05	ABS
C	2497	CONVERTED FROM SW TO PRO	10/01/10	INEWCOMB
D	4252	REFORMAT	08/31/15	DS
E	5292	ADD P-V @ 50% APERTURE	03/08/18	MW

REV
E

SH
1

DWG NO
0352110

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