

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:

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

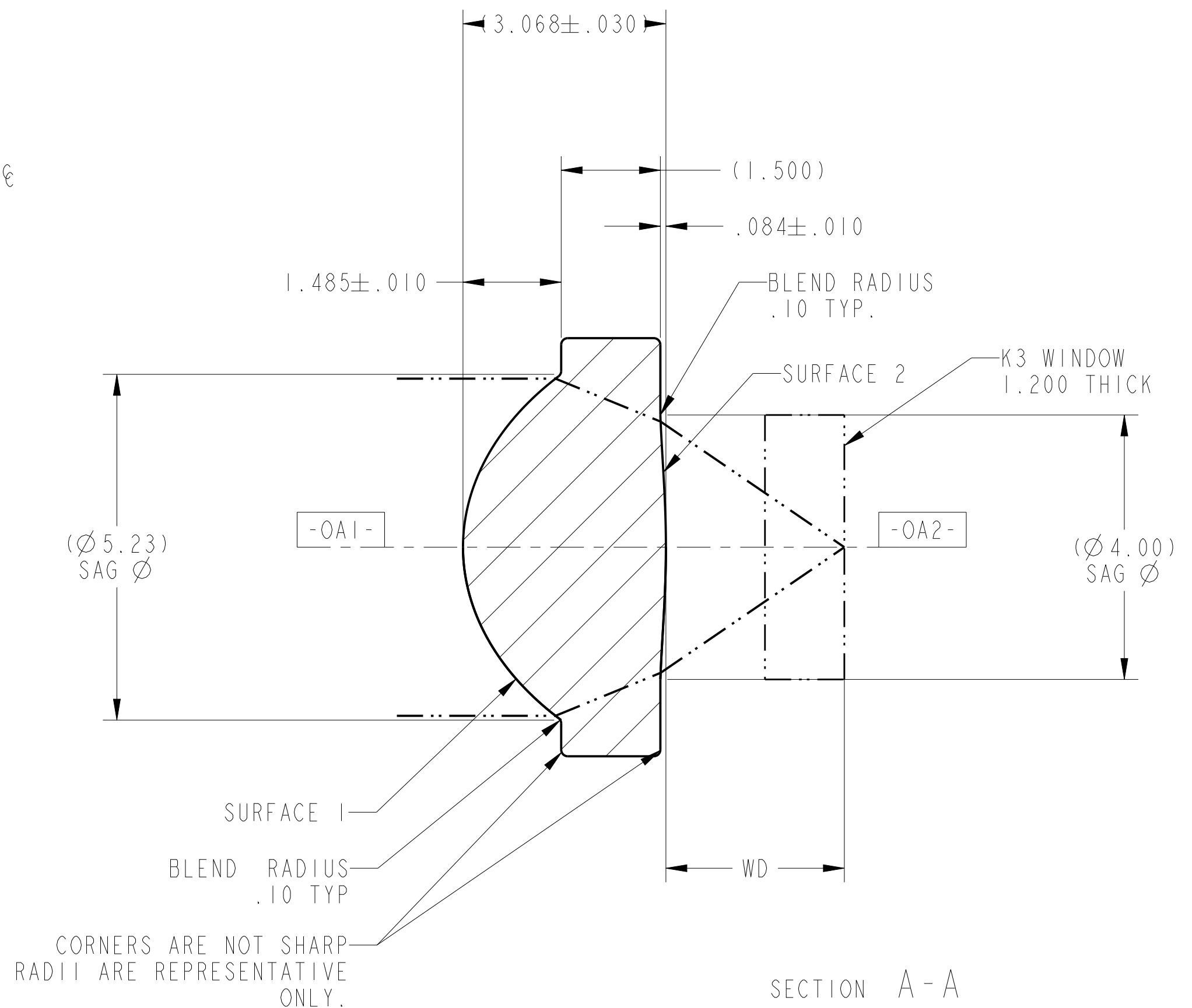
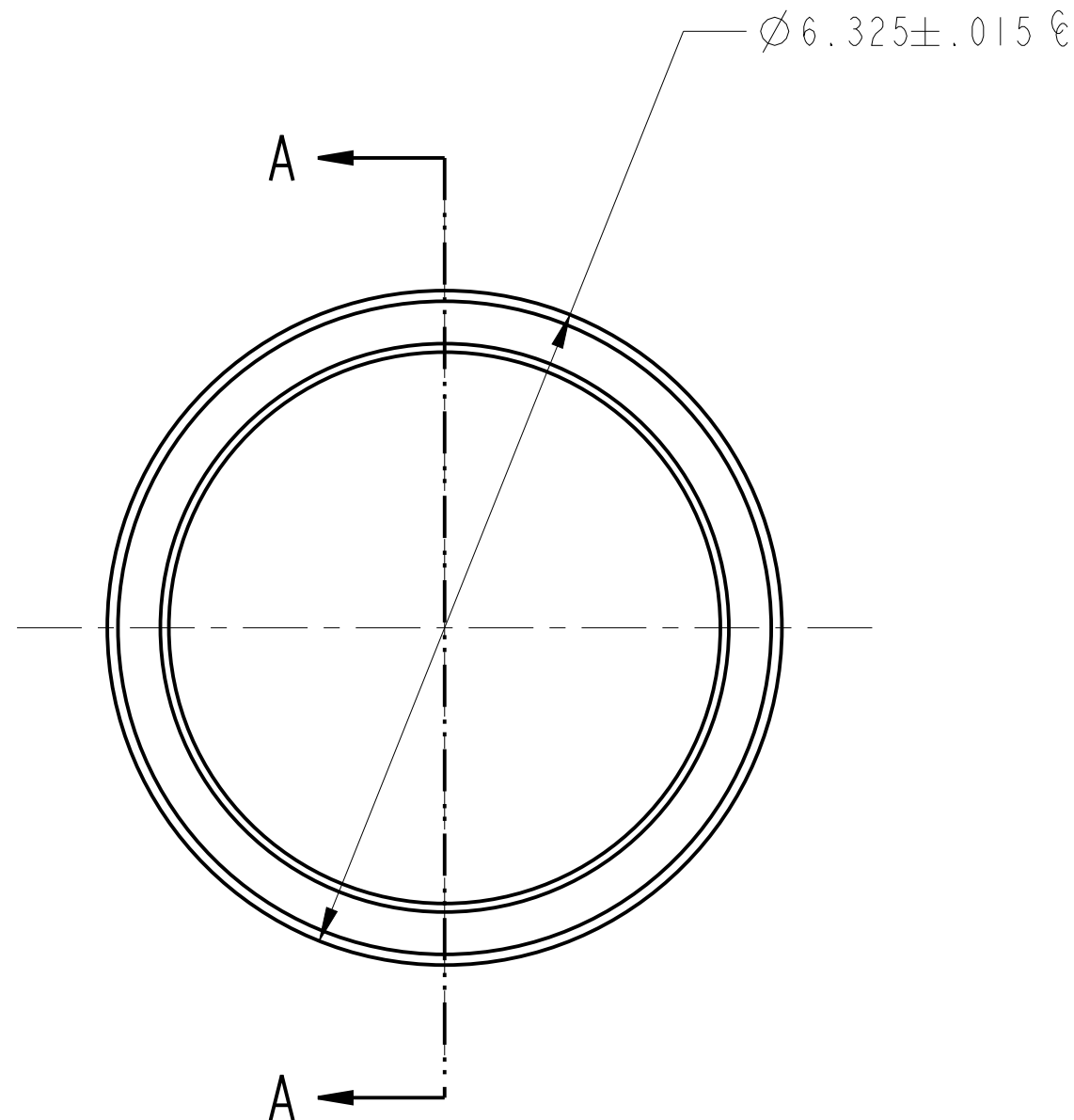
4. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	ASPHERE
SHAPE	CX	CX
CA	$\varnothing 5.10$	$\varnothing 3.80$
R_C	2.661805	-14.409165
K	-0.448622	0.000000
A_2	0.000000E0	0.000000E0
A_4	-4.274149E-4	3.989295E-3
A_6	-4.493045E-5	-1.500916E-4
A_8	-2.591704E-6	5.053819E-6
A_{10}	-5.372594E-8	0.000000E0
A_{12}	0.000000E0	0.000000E0
A_{14}	0.000000E0	0.000000E0
A_{16}	0.000000E0	0.000000E0

DESIGN WAVELENGTH	685 nm
W.D.	2.7
N.A.	0.6
E.F.L.	4.0mm $\pm$ 1.0%

7. THIS ELEMENT MUST MEET THE SCRATCH/DIG REQUIREMENTS ACROSS THE FULL CLEAR APERTURES INDICATED, BOTH SIDES, PER LIGHTPATH PWI INS-8.2-05P6.6
-00: S/D: 40/20

8. THIS ELEMENT IS USED AS A COLLIMATING LENS.
WAVEFRONT ERROR: @ 100% APERTURE < 0.120 WAVES RMS @ 632.8nm;
@ 50% APERTURE < 0.270 WAVES P-V
PER LIGHTPATH PWI INS-8.2-03.C



REVISION HISTORY				
REV	ECN	DESCRIPTION	DATE	INITIALS
A	2131	INITIAL RELEASE	05/26/09	ASYMMONS
B	2244	REVISED PRESCRIPTION	11/04/09	ASYMMONS
C	4343	UPDATE FORMAT	11/11/15	PL

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 ASYMMONS\ORL		TITLE LENS CODE 352340			
MATERIAL ECO550(m)		SIZE A2	DWG NO 0352340		REV C
SOFTWARE Pro/ENGINEER		SCALE: 15.00	THIRD ANGLE PROJECTION 		SHEET 1 OF 1