

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:

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

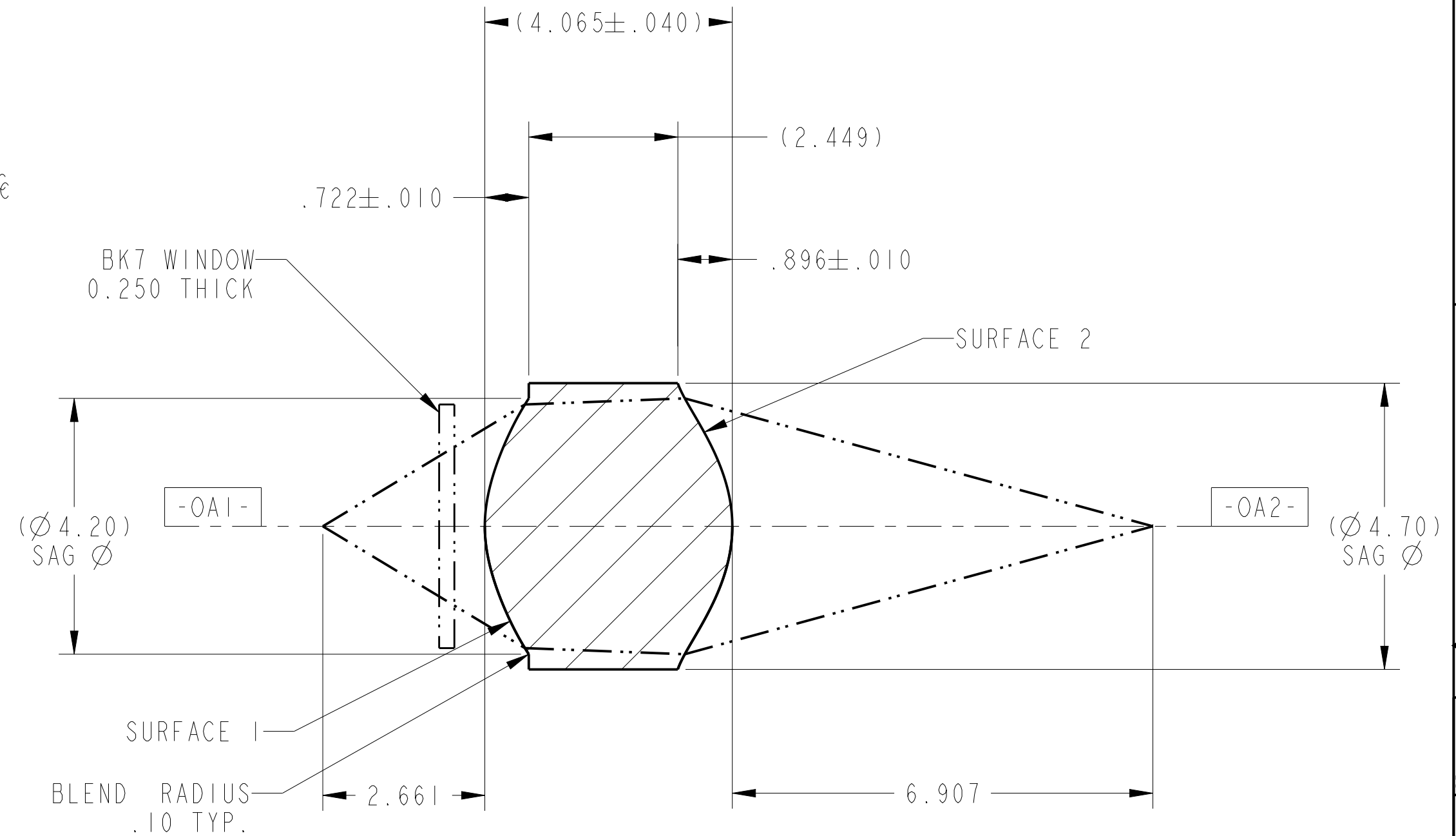
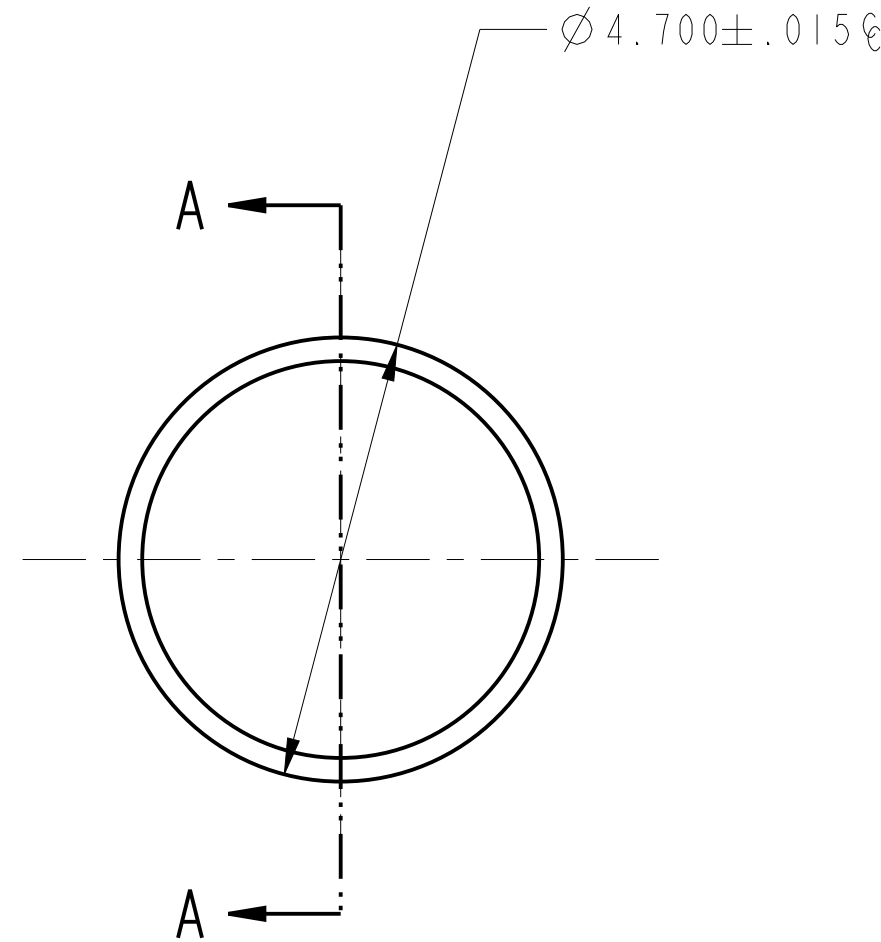
4. SURFACE DEFINITIONS:

	SURFACE 1	SURFACE 2
TYPE	ASPHERE	ASPHERE
SHAPE	CX	CX
CA	$\varnothing 4.00$	$\varnothing 4.20$
R _C	2.395168	-2.391890
K	-4.456395	-0.837177
A ₂	0.000000E0	0.000000E0
A ₄	5.267561E-3	7.310013E-3
A ₆	-1.075317E-3	3.910016E-4
A ₈	3.233532E-4	-1.259764E-4
A ₁₀	-2.551789E-5	2.645153E-5
A ₁₂	0.000000E0	0.000000E0
A ₁₄	0.000000E0	0.000000E0
A ₁₆	0.000000E0	0.000000E0

DESIGN WAVELENGTH	980 nm
W.D.	6.9 mm
N.A.	0.3
E.F.L.	3.0mm $\pm$ 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 COUPLING LENS.
WAVEFRONT ERROR: @ 100% APERTURE < 0.460 WAVES RMS @ 632.8nm;
@ 50% APERTURE < 2.48 WAVES P-V
PER LIGHTPATH PWI INS-8.2-03.C



SECTION A - A

REVISION HISTORY				
REV	DCO	DESCRIPTION	DATE	INITIALS
A	1305	INITIAL RELEASE	08/28/07	JAL
B	2713	CONVERSION FROM SW TO PRO/E	03/16/11	INNEWCOMB
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: $\pm 0.5^\circ$

DRAWN
| NEWCOMB \ ORL

MATERIAL
ECO550 (m)

SOFTWARE Pro/ENGINEER

LightPath[®]
.....TECHNOLOGIES

2603 CHALLENGER TECH CT. SUITE 100
ORLANDO, FL 32826

T I T L E

LENS CODE 352440

	SIZE
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A2

SCALE:	12.50
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DWG NO

0352440

THIRD ANGLE PROJECTION

	REV
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Country	Year	Population (millions)	Urban population (millions)	Urban population (%)
Algeria	2000	24.0	12.0	50.0
Algeria	2005	26.0	13.0	50.0
Algeria	2010	28.0	14.0	50.0
Algeria	2015	30.0	15.0	50.0
Algeria	2020	32.0	16.0	50.0
Algeria	2025	34.0	17.0	50.0
Algeria	2030	36.0	18.0	50.0
Algeria	2035	38.0	19.0	50.0
Algeria	2040	40.0	20.0	50.0
Algeria	2045	42.0	21.0	50.0
Algeria	2050	44.0	22.0	50.0
Algeria	2055	46.0	23.0	50.0
Algeria	2060	48.0	24.0	50.0
Algeria	2065	50.0	25.0	50.0
Algeria	2070	52.0	26.0	50.0
Algeria	2075	54.0	27.0	50.0
Algeria	2080	56.0	28.0	50.0
Algeria	2085	58.0	29.0	50.0
Algeria	2090	60.0	30.0	50.0
Algeria	2095	62.0	31.0	50.0
Algeria	2100	64.0	32.0	50.0
Algeria	2105	66.0	33.0	50.0
Algeria	2110	68.0	34.0	50.0
Algeria	2115	70.0	35.0	50.0
Algeria	2120	72.0	36.0	50.0
Algeria	2125	74.0	37.0	50.0
Algeria	2130	76.0	38.0	50.0
Algeria	2135	78.0	39.0	50.0
Algeria	2140	80.0	40.0	50.0
Algeria	2145	82.0	41.0	50.0
Algeria	2150	84.0	42.0	50.0
Algeria	2155	86.0	43.0	50.0
Algeria	2160	88.0	44.0	50.0
Algeria	2165	90.0	45.0	50.0
Algeria	2170	92.0	46.0	50.0
Algeria	2175	94.0	47.0	50.0
Algeria	2180	96.0	48.0	50.0
Algeria	2185	98.0	49.0	50.0
Algeria	2190	100.0	50.0	50.0
Algeria	2195	102.0	51.0	50.0
Algeria	2200	104.0	52.0	50.0
Algeria	2205	106.0	53.0	50.0
Algeria	2210	108.0	54.0	50.0
Algeria	2215	110.0	55.0	50.0
Algeria	2220	112.0	56.0	50.0
Algeria	2225	114.0	57.0	50.0
Algeria	2230	116.0	58.0	50.0
Algeria	2235	118.0	59.0	50.0
Algeria	2240	120.0	60.0	50.0
Algeria	2245	122.0	61.0	50.0
Algeria	2250	124.0	62.0	50.0
Algeria	2255	126.0	63.0	50.0
Algeria	2260	128.0	64.0	50.0
Algeria	2265	130.0	65.0	50.0
Algeria	2270	132.0	66.0	50.0
Algeria	2275	134.0	67.0	50.0
Algeria	2280	136.0	68.0	50.0
Algeria	2285	138.0	69.0	50.0
Algeria	2290	140.0	70.0	50.0
Algeria	2295	142.0	71.0	50.0
Algeria	2300	144.0	72.0	50.0
Algeria	2305	146.0	73.0	50.0
Algeria	2310	148.0	74.0	50.0
Algeria	2315	150.0	75.0	50.0
Algeria	2320	152.0	76.0	50.0
Algeria	2325	154.0	77.0	50.0
Algeria	2330	156.0	78.0	50.0
Algeria	2335	158.0	79.0	50.0
Algeria	2340	160.0	80.0	50.0
Algeria	2345	162.0	81.0	50.0
Algeria	2350	164.0	82.0	50.0
Algeria	2355			

SHEET 1 OF 1

PROPRIETARY INFORMATION

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