NOTES:

1. SUBSTRATE:
   Fused Silica
2. CENTERING TOLERANCE (AT 587.6nm): <1ARCMIN
3. COATING (APPLY ACROSS COATING APERTURE)
   S1 & S2: UV-VIS

4. EDGES: FINE GROUND

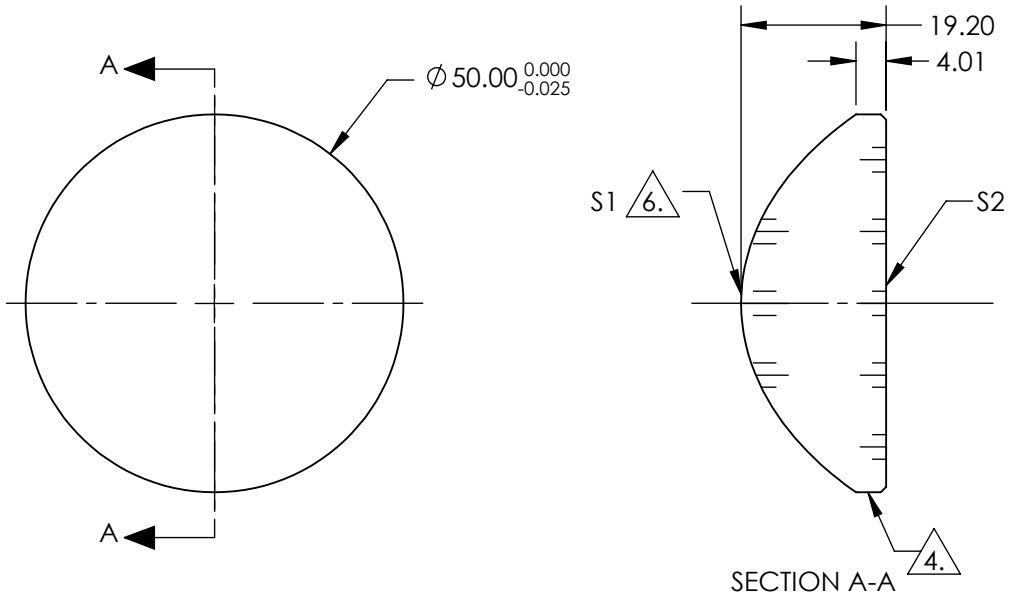
5. ASPHERIC FIGURE ERROR: 0.250 µm RMS

6. ASPHERIC SURFACE DESCRIBED BY (REF. COEFFICIENT TABLE):

$$Z_{ASPH}(Y) = \frac{(1/RADIUS) * Y^2}{1+\sqrt{1-(1+k)*(1/RADIUS)^2 * Y^2}} + D*Y^2 + E*Y^4 + F*Y^6 + G*Y^8 + H*Y^{10} + J*Y^{12} + L*Y^{14}$$

FOR INFORMATION ONLY:
DO NOT MANUFACTURE PARTS TO THIS DRAWING

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS ARE FOR REFERENCE ONLY



COEFFIECIENT TABLE 6.	
COEFFIECIENT	**S1**
SEMI-DIAMETER	2.500000E+01
(1/RADIUS)	4.200798E-02
k	-7.730000E-01
D	0.000000E+00
E	2.068684E-06
F	9.798870E-10
G	3.683270E-13
H	1.905505E-16
J	0.000000E+00
L	0.000000E+00

	S1	S2
SHAPE	CONVEX	CONVEX
SURFACE QUALITY	40-20	40-20
CLEAR APERTURE	∅ 45.00mm	∅ 45.00mm
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED

EFL @ 355nm:50.00
BFL @ 355nm: 37.00

THIRD ANGLE PROJECTION

ALL DIMS IN mm

Edmund Optics®

TITLE: 50mm Dia 0.48 NA Uncoated, UV Fused Silica Aspheric Lens

DWG NO: 17334

SHEET 1 OF 1