NOTES:

1. SUBSTRATE: FUSED SILICA

2. COATING (APPLY ACROSS CLEAR APERTURE)

   S1: R(avg) <2.5% @ 250 - 700nm
   S2: R(avg) <2.5% @ 250 - 700nm

3. EDGES: FINE GROuND

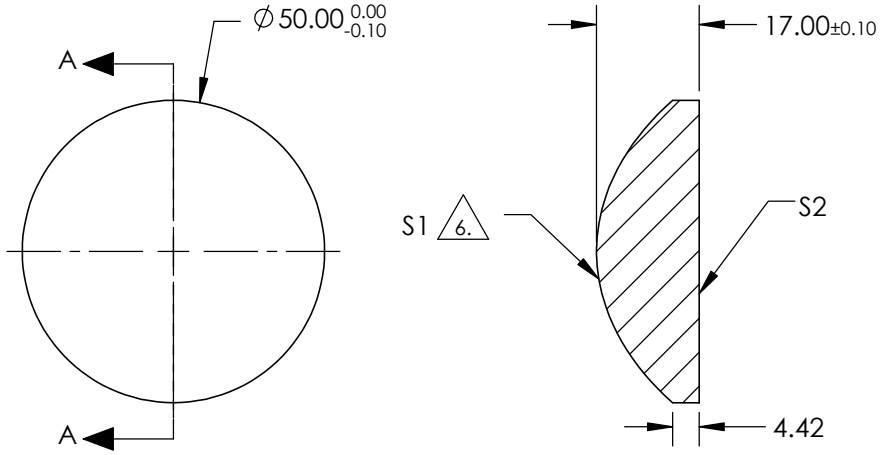
4. CENTERING: <3-5 ARCMIN

5. ASPHERE FIGURE ERROR: 0.75µm 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



SECTION A-A

COEFFIECIENT TABLE 7

COEFFIECIENT	S1
k	-1.471923E+00
D	0
E	5.474309E-06
F	-2.150776E-10
G	4.540082E-13
H	-3.526000E-18
J	0
L	0

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE DIMENSIONS ARE FOR REFERENCE ONLY

REV. A	S1	S2
SHAPE	CONVEX	PLANO
RADIUS	27.508	INFINITY
SURFACE QUALITY	60-40	60-40
CLEAR APERTURE	90%	90%
BEVEL MAX	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED

EFL @ 587.6nm	60
BFL @ 587.6nm	48.34
THIRD ANGLE PROJECTION	
ALL DIMS IN	mm

Edmund Optics®

TITLE	50mm DIA 0.42 NA UV-VIS COATED, UV FUSED SILICA ASPHERIC LENS	
DWG NO	84342	SHEET 1 OF 1