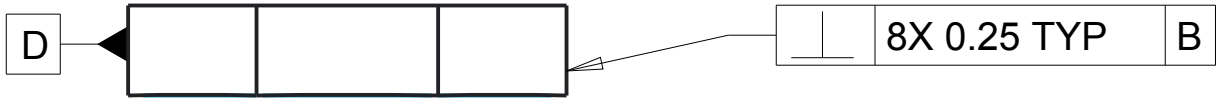
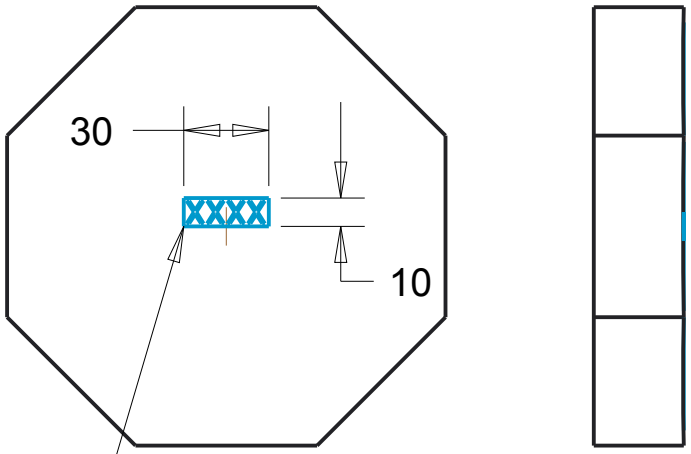
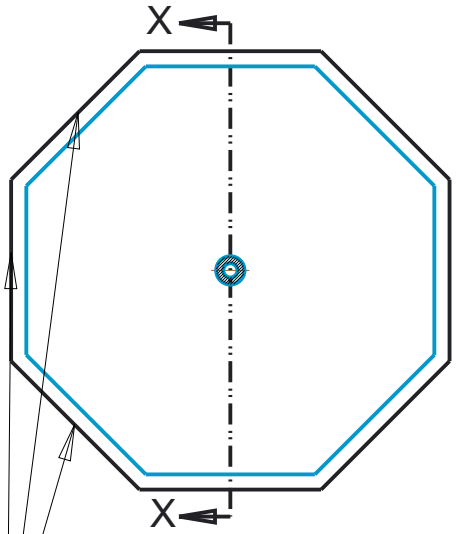
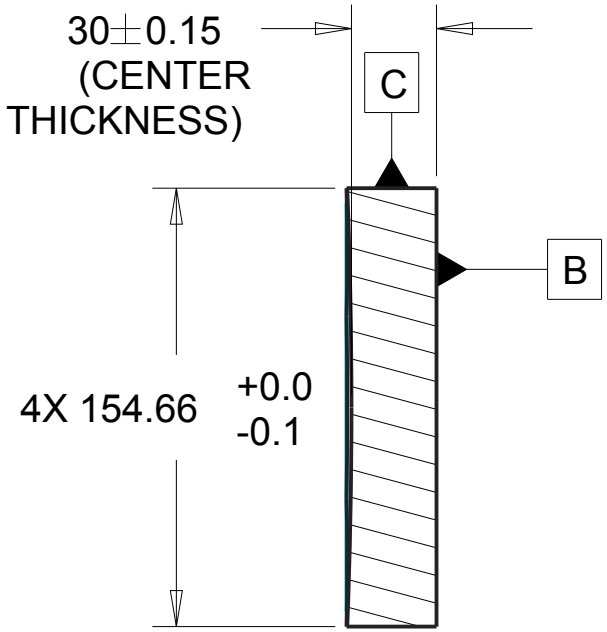
FORM FACTOR NOTES:
1. MATERIAL: CORNING ULE MIRROR GRADE.
2. ALL DIMENSIONS IN MM.
3. ALL EDGES CHAMFERED 0.5 MM X 45°.
4. FORM FACTOR IS REGULAR OCTAGON WITH OPPOSITE SIDES // ±0.13°

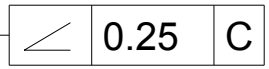
FINISH:SEE NOTES
QUANTITY: TBD











ETCHED SERIAL #
NOT TO EXCEED
THIS AREA

SECTION X-X

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
ANGULAR: MACH:±0.5° BEND:±0.5°
ONE PLACE DECIMAL: ±0.1
TWO PLACE DECIMAL: ±0.05

DESC:
ESIS primary mirror, flight grade.

TITLE:
PRIMARY_FLIGHT

MATL:SEE NOTE 1

MDL.BY:COURRIER

SIZE: A

DWG. NO:1 OF1

REV: E

SCALE:0.375

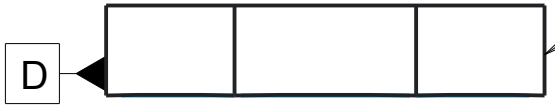
DATE:Sept-20-16

SHEET:1 OF2

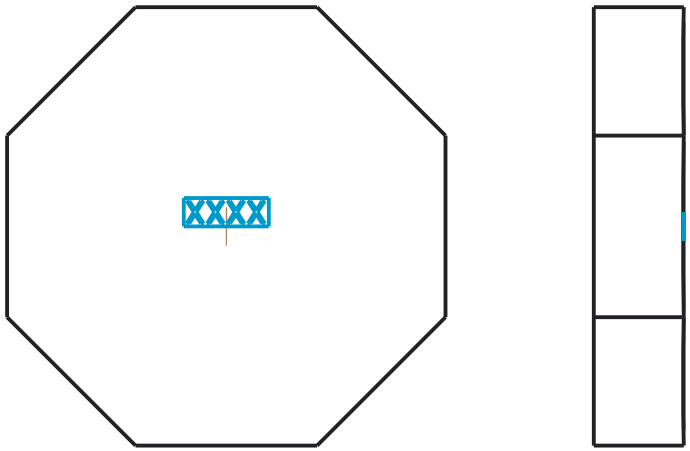
SURFACE FINISH NOTES:
1. MATERIAL: CORNING ULE MIRROR GRADE.
2. RMS slope error <1mrad
   integration length = 4.0 mm
   spatial sampling resolution =2.0 mm
3. RMS ripple <2.5 nm
   spatial periods 0.06-6.0 mm
4. RMS surface roughness <1 nm
   spatial periods 1.6-70mm
5. R1/R2 WEDGE LESS THAN 0.1 MM TIR.
6. Mark location of paraboloid apex with
   etched annulus, OD =10 mm, ID =5 mm.

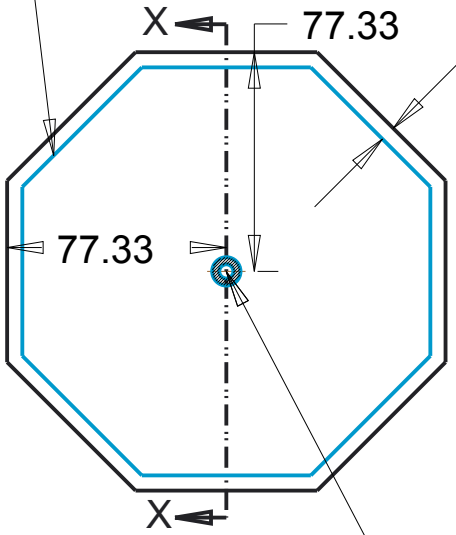
FINISH:SEE NOTES

QUANTITY: TBD

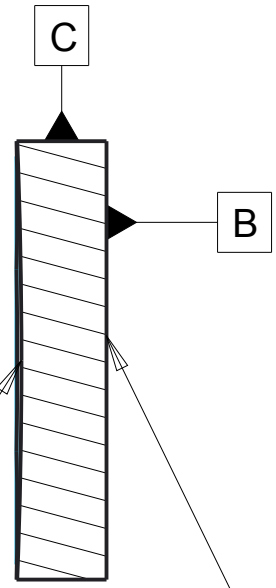


ALL OTHER SURFACES:
FINE GRIND





⌖	0.5	C	D



SECTION X-X

SURF.	TYPE	RADIUS	RAD.TOL	CA.WIDTH
A	PARABOLIC K=-1	-2000	±4	143.94
B	PLANO	INF	NA	NA

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES:
ANGULAR: MACH:±0.5° BEND:±0.5°
ONE PLACE DECIMAL: ±0.1
TWO PLACE DECIMAL: ±0.05

DESC:
ESIS primary mirror, flight grade.

TITLE:
PRIMARY_FLIGHT

MATL:SEE NOTE 1

MDL.BY:COURRIER

SIZE: A

DWG. NO:1 OF1

REV: E

SCALE:0.375

DATE:Sept-20-16

SHEET:2 OF2