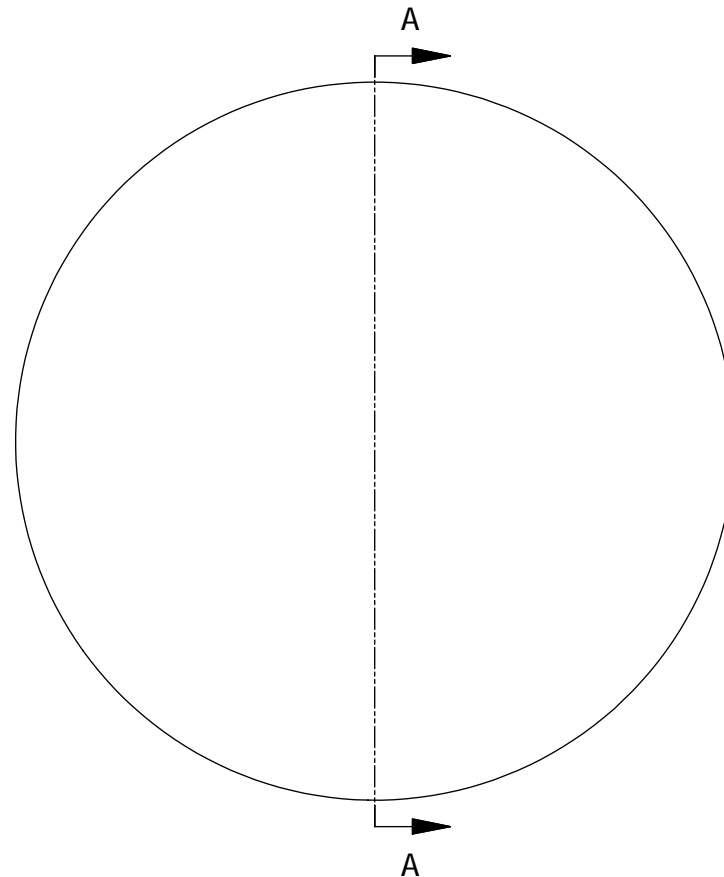


SECTION A-A  
SCALE 1 / 2

**NOTES**

1. Manufactured by Harold Johnson Optical Laboratories
2. No coatings
3. See ZEMAX drawings for more detailed tolerance information



THE OBSERVATORIES  
OF THE CARNEGIE INSTITUTION OF WASHINGTON  
813 Santa Barbara Street  
Pasadena, CA 91101

MATERIAL		UNLESS OTHERWISE SPECIFIED		
CaF2		FRACTIONAL	DECIMAL	ANGULAR
		+/- 1/16	.XX +/- 0.02	+/- 1/4 DEG
EST WEIGHT		.XXX +/- 0.004 GOAL		
3.9 lb		.XXX +/- 0.008 REQD		
SCALE		BREAK SHARP EDGES MACHINED SURFACES 125 ✓		
1:2		ALL DIMENSIONS IN INCHES		
		P lanet F nder S pectrograph		Lens PFS3B
DWN	CRANE	12/14/2005		
APVD			SIZE	DRAWING NUMBER
	BY	DATE	A	PFS01004
			SHT 1	REV
			OF 1	