

		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED

Notes:

- ALL DIMENSIONS IN MILLIMETERS
- MATERIAL PER MIL-G-174. GRADE A. FINE ANNEALED.
- PITCH POLISH TO NOMINAL VALUE WITHIN POWER AND IRREGULARITY INDICATED. TEST WAVELENGTH = 546 NM OR EQUIVALENT.
- MANUFACTURE PER MIL-O-13830
- MADE FROM OHARA S-FPL53 NO SUBSTITUTES. ND = 1.4388 ±.001, VO = 95.0 ±0.8.
- RADII TOLERANCES PERTAIN TO TESTPLATES, AND IRR TOLERANCES ARE: SPHERICAL ERROR IN RIGHGS FROM TESTPLATE FIT, AND IRREGULARITY IN FRINGES OVER THE CLEAR APERTURES.
- COSMETIC QUALITY: 20-10 OVER ANY 5 MM SECTION OF THE CLEAR APERTURES
- BEVEL EDGES AT 45 DEGREES TO 0.3MM MAX FACE WIDTH.
- MECHANICAL WEDGE LESS THAN 2 ARC-MINUTES.
- GROUND FLAT FACE ON CONCAE SURFACE, SAG = 2.64 ±0.03. PERP. TO AXIS WITHIN 2 ARC-MINUTES.
- DIAMETER 41.0 +.0/- .03
- AR COAT AIR-TO-GLASS FACES (MULTILAYER). LESS THAN 0.5X REFLECTANCE/SURFACE FROM 430 TO 650 NM, FROM 0 TO 30 DEGREES ANGLE OF INCIDENCE.
- BLACKEN GROUND FACE AND EDGES, DIMENSIONS APPLY AFTER BLACKENING
- PROTECTIVE BAG AND TAG. "ELEMENT B. 050211-002"

System/Prescription Data

File : C:\Users\dick\Documents\ZENAX\my zemax files 120409\HOBSON MONTEREY 040211\Hobson dome 5mm FINAL with TWC plates 042811A.ZMX
Title: dome corrector FINAL 042811
Date : 5/2/2011

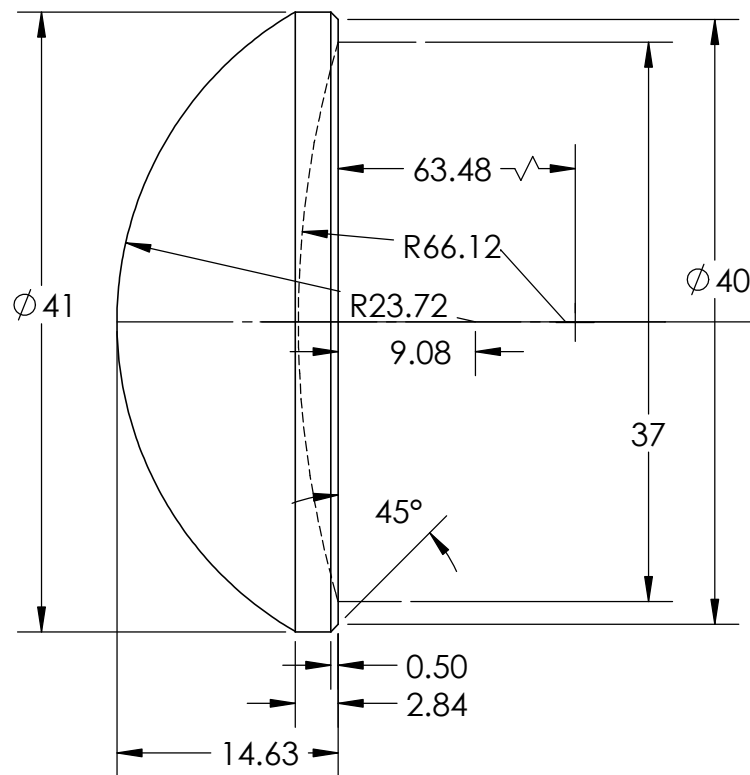
LENS NOTES:

with TWC testplates.

WITH OVERSIZED CLEAR APERTURES TO COMPENSATE ANTICIPATED WORST CASE COSINE ELONGATION OF APERTURE STOP AT CORNER OF FIELD OF VIEW.

SURFACE DATA SUMMARY:

Surf	Type	Radius	Thickness	Glass	Diameter	Conic	Comment
OBJ	STANDARD	Infinity	3000	SEAMATER	6190	0	
1	STANDARD	Infinity	0	SEAMATER	117.7425	0	
2	STANDARD	40.64	8.128	S-BSL7	77	0	dome
3	STANDARD	32.512	25.39		61.78	0	nominal focus
4	STANDARD	-151.56	4	S-LAN66	58	0	element a
5	STANDARD	-499.55	1		60	0	
6	STANDARD	23.715	12	S-FPL53	41	0	element b
7	STANDARD	66.124	1		37	0	
8	STANDARD	15	0	S-BSL7	26	0	dummy front
9	STANDARD	15	15		26	0	
STO	STANDARD	Infinity	0		4	0	
11	PARABOL	-	0		4	0	- perfect lens
12	STANDARD	Infinity	5		4	0	
13	STANDARD	Infinity	0		11.04643	0	
IMA	STANDARD	Infinity			11.04643	0	



Optics Designed by Richard Buchroeder

		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	APPROVALS		DATE	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
			DRAWN					
			CHECKED					
			ENGINEER					
		MATERIAL --	PROJECT NO. 901101		Ol Corrective Element B			
			PROJECT					
NEXT ASSY	USED ON	FINISH --	Ocean Imaging			SIZE A	DWG. NO. P-10020891	REV.
APPLICATION		DO NOT SCALE DRAWING				SCALE:2:1	WEIGHT:	SHEET 1 OF 1