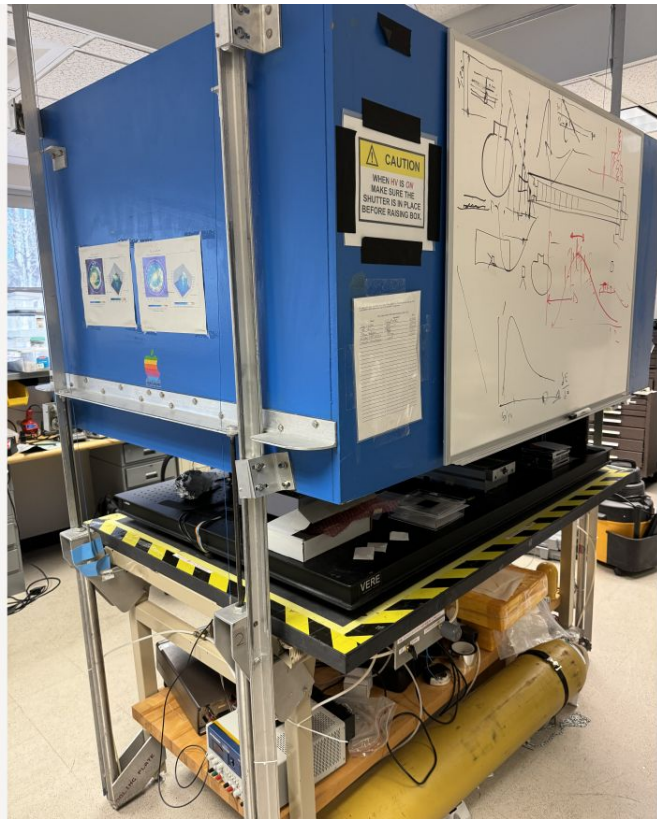


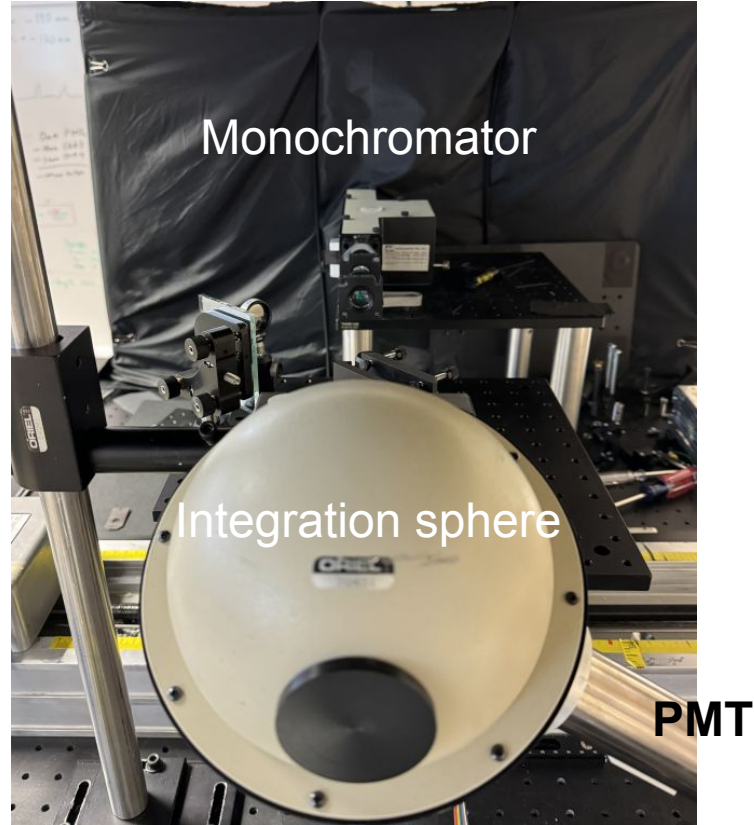
2023 Reflectivity Report

Wenliang Li (Bill), on behalf of SBU CFNS and BNL, 2023

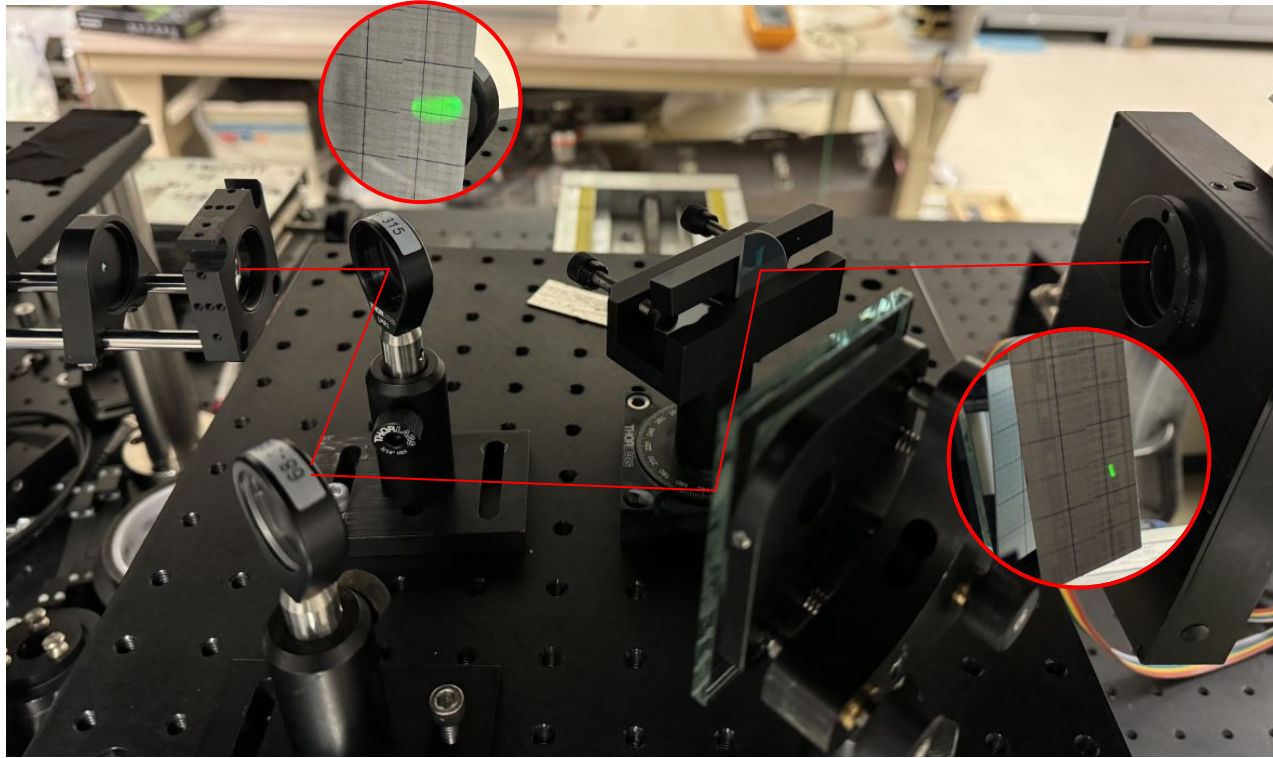
Dark Box Enclosure



Test setup

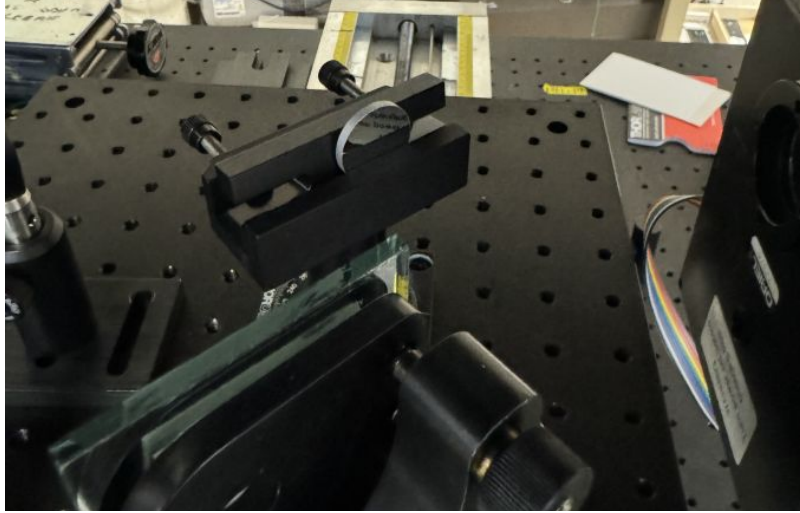


Dark Box Enclosure

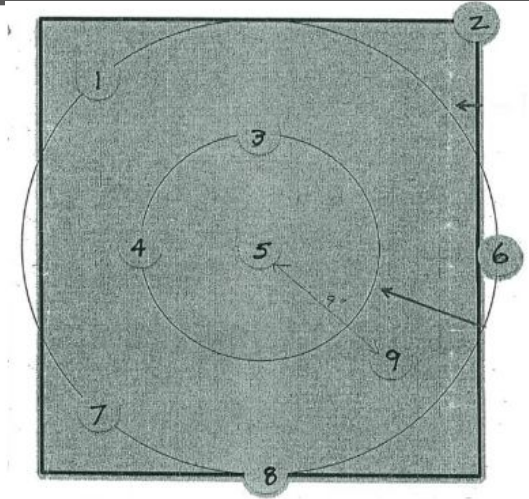


ECI Reference Mirror Documentation

Reference Mode

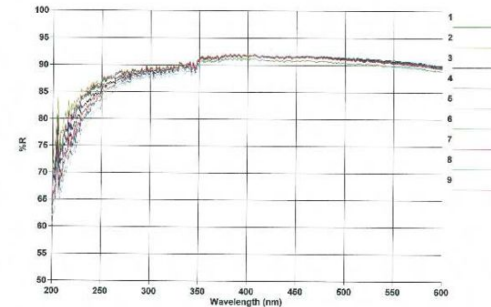


<https://arxiv.org/pdf/2304.10016.pdf>



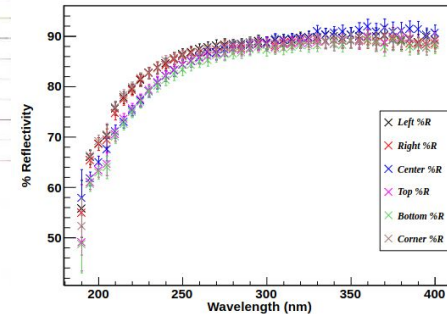
(a) Witness sample placement

Con 8200
UV-Vis-IR Spectrophotometer
1/10/2011 10:21:20 AM Page 1 of 1



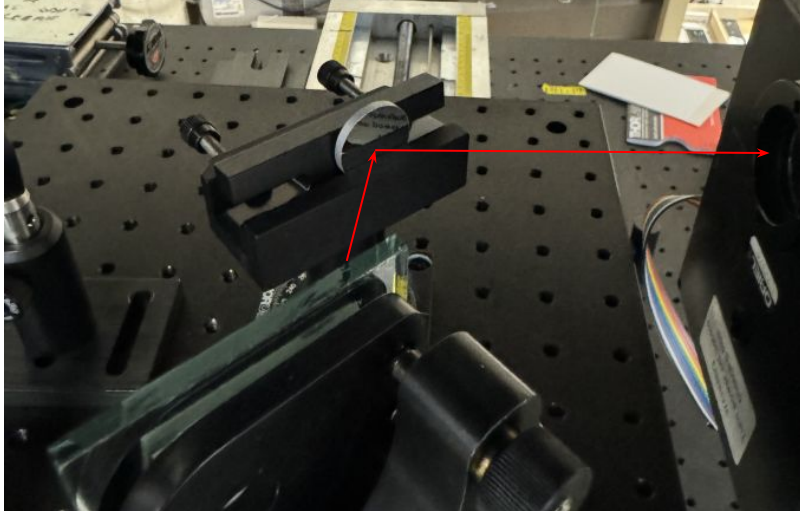
Esposito Coatings, Inc.
2205 Myrtle Road, Myrtle Grove, PA 16866, USA
Tel: 717.659.1000 Fax: 717.659.1001

Mirror #8 Reflectivity Result

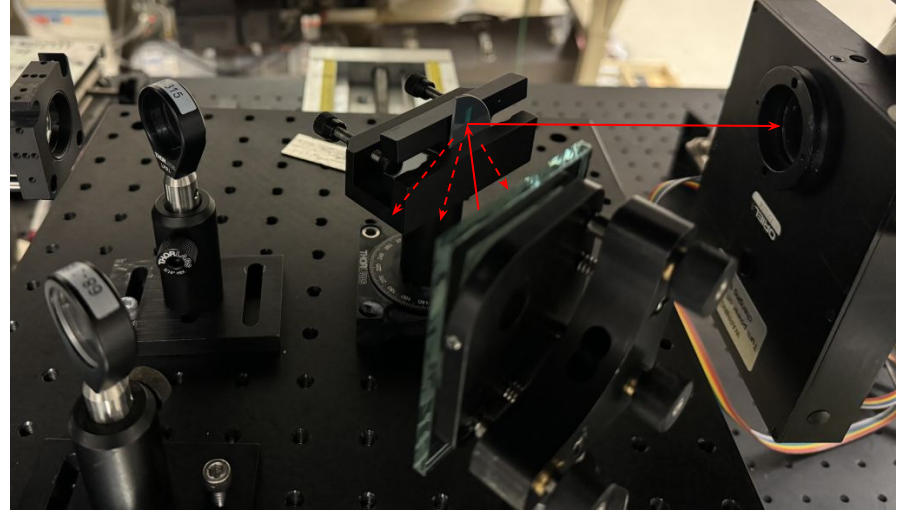


(b) Mirror #8 Reflectivity Results

Reference Mode



Measurement Mode



<https://docs.google.com/spreadsheets/d/10bs2kSjjHpCNQi6bBbTkfUYEp6eViAq-gwvdxzrm23c/edit?usp=sharing>

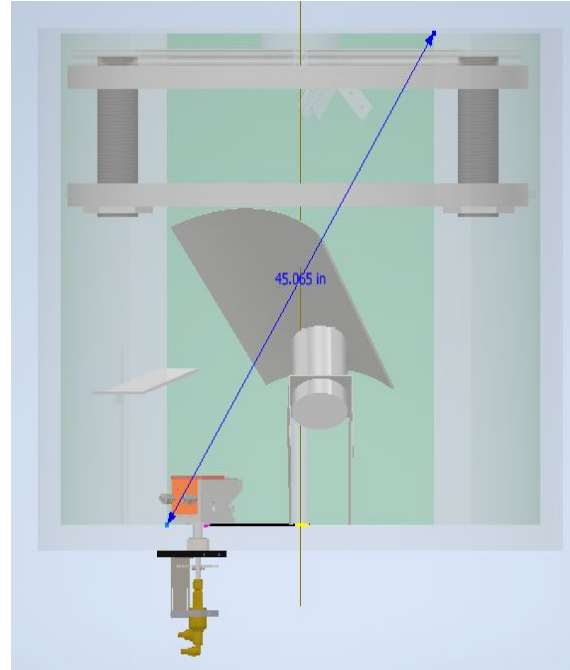
Summary and next step

Summary

- Round 1: 55-60% reflectivity
- Round 2: 70-75% reflectivity

Next step

- Installing ionized gun
- Improve vacuum



Purdue 1st sample vs Temple substrate

