Quote for the Mirrors Fabrication



March 22, 2005

To: Temple University
Attn: Alexander Lukhanin

Thank you for your most recent inquiry. Based upon the specifications indicated in your request, Glass Mountain Optics would like to offer the following quotation:

Qty	Description	Unit Price	Total	Delivery
5	15.75" x 15.75" x 0.38" spherical	\$1,980.00	\$9,900.00	4-6 weeks
	collimating mirror. Radius of			
	Curvature 29.53". AlMgF ₂ coating			
	with best possible reflectance at 160			
	nm and 80%+ at 250-400 nm. Best			
	commercial surface accuracy.			

Terms: Net 30 from date of shipment

F.O.B.: Austin, TX

Please feel free to contact our office if you have any questions or require additional

Sincerely,

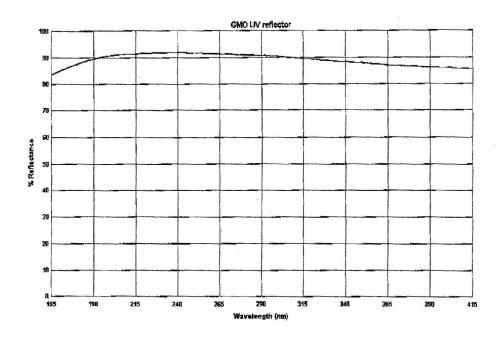
Karen Stone

Marketing – Glass Mountain Optics stone@glassmountain.com

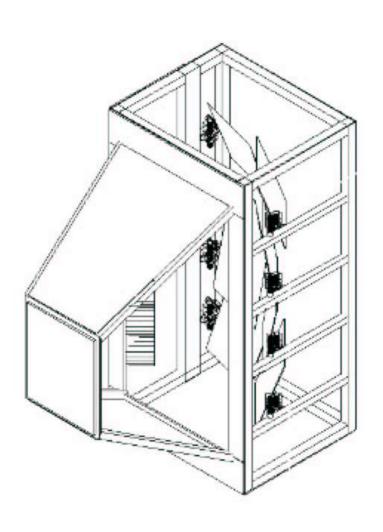
- •CERN was contacted. They are swamped with LHC projects to deliver our mirrors within a year
- •GlassMountainOptics was suggested by CERN. They did the HERA-B mirrors and the result was very good according to the CERN people.
 - claim >80 reflectivity at 165 nm
- •In case of problems a firm in France was mentioned: SESO in France at Aix en Provence:

http://www.seso.com/

Reflectivity curve



Schematic of the Tank and Mirror mounts



- 8 mirrors focusing rays on 3" quartz
 PMTs located on single side
 - get PMTs away from target BG
 - concentrate shielding
- •3" quartz PMTs
 - optimize short-wavelength sensitivity
 - smaller photo-cathode area, limit BG rate from non-photon interactions with PMT
 - can still focus >90% of rays using spherical mirrors
- "near side" mirror ordered for testing
- may move to parabolic or bi-radius mirror to improve "far side" focus (ray

Mirror Mount

