

[Test Date]

Order Details

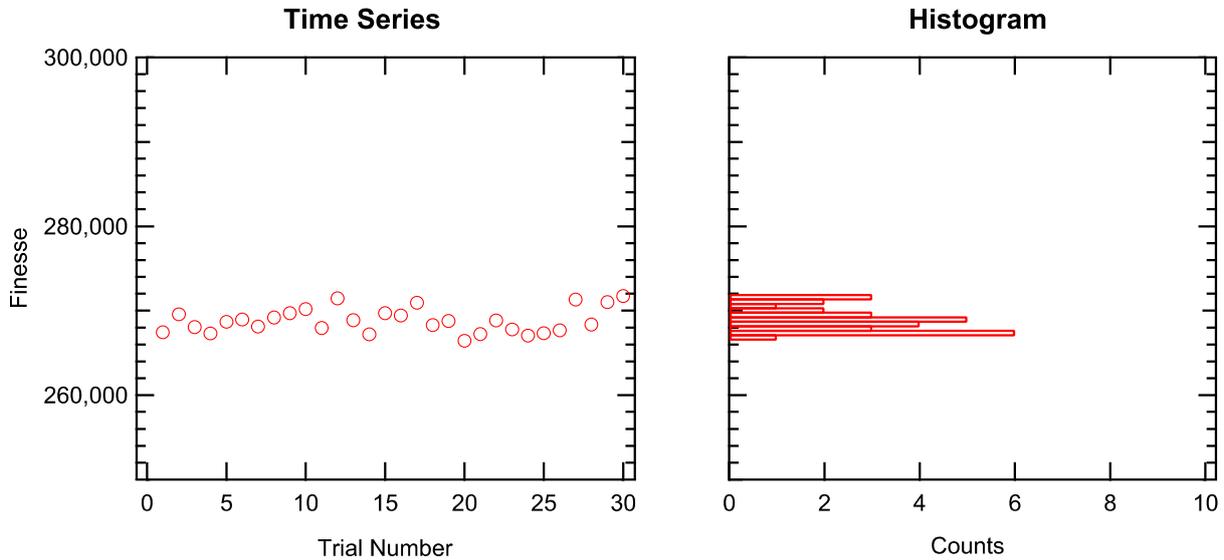
[Customer Name]
[Customer Address]
[Customer Address]

Purchase Order#: [Order Number]
Purchase Order Date: [Order Date]
Referenced Quote: [Quote Number]

[Cavity Item Number]

Measured cavity finesse at 1550 nm	Transmission (T)	Scattering + Absorption (S+A)	Reflectivity (1-T-(S+A))
269,000	5 ppm	6.7 ppm	99.9988%

The cavity ring-down technique was used to measure the decay time constant of a TEM00 mode transmitted through Items 1 and 2 assembled into a linear cavity configuration at room temperature. The median cavity finesse was **269,000** at 1550 nm and was determined from the measured decay times and cavity length of 121 mm. Assuming identical losses for each optic, we infer a total loss of 11.7 ppm per mirror, which consists of 5 ppm in transmission, and a best estimate of 6.7 ppm scattering + absorption losses. Details on methodology, data analysis, and raw data available on request.



Test Date: [Date] Operator: GWT Cavity: Spacer #3 Output Mirror, Item 1: [Mirror Part Number] Input Mirror, Item 2: [Mirror Part Number] Cavity Length: 121 mm Max. Test Pressure: ATM	Laser Source: THORLABS ML925B45FF Test Wavelength: 1550 nm Target Finesse: 200,000 Measured Median Finesse: 269,000 Total Loss per Mirror: 11.7 ppm Number of Measurements: 30
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Details			
High-Reflectivity Coating: ø8 mm, single-crystal GaAs/AlGaAs multilayer			
Substrates: Fused silica (Corning 7980), super-polished, ø25.4 mm, 6.35 mm thick <1 Å roughness, 0.1λ P-V, 10-5 S-D backside: 10 arcmin wedge with 1542 nm AR coating in central ø5 mm, R <= 0.1%			
Item	Part Number	Radius of Curvature	Contacting Annulus
1	[Part Number]	1 meter	from d = 18.5 to d = 25.4 mm
2	[Part Number]	planar	---