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Subject: Calibration Screen Status

**Background - Calibration Screen Assembly:**

The actual and required apertures for the calibration screen are listed in the following table.

**Clear apertures – “observation mode” (screen out of the way)**

Position	Distance from Primary Vertex	X direction req'd (mm)	X direction actual (mm)	Y direction req'd (mm)	Y direction actual (mm)	Circular Aperture Diameter (mm)
Attic Opening*	35.23"	-169 mm, +235 mm	-206 mm, +241 mm	±176 mm	±206 mm	519 mm
Edge Baffle*	35.96"	-166.9 mm +230.3 mm	+238.1 mm	NA	NA	NA
Screen Base	36.21"	±166.4 mm	-174.6 mm	NA	NA	NA

\*The other clear apertures are also asymmetric, but only this case was explicitly checked due to limited space. The wider opening is needed over the wave front sensor patrol region.

**Clear apertures – “calibration mode” (screen in the main beam)**

Position	Distance from Primary Vertex	X direction req'd (mm)	X direction actual (mm)	Y direction req'd (mm)	Y direction actual (mm)	Circular Aperture Diameter (mm)
Calibration Screen	36.58"	±165.6 mm	±200 mm	±173.1 mm	-180.9 mm, +190.5 mm	410.8 mm
Beam Splitter (upper edge)	38.00"	±166.7 mm	±175.7 mm	±170.2 mm	-183.8 mm	405.5 mm
Beam Splitter (lower edge)	51.53"	±135.1 mm	±175.7 mm	±143.0 mm	+ 159.6 mm	355.3 mm