

reference fit for the corresponding data set using procedures set forth in the Standard. The reported test results for each geometry type are the RMS value deviations between the customer's fits and the reference fits for all data sets corresponding to that geometry type. According to the Standard, when deviation results were less than 10^{-5} micrometers or 10^{-7} arc seconds, these values are reported as " $< 10^{-5}$ " and " $< 10^{-7}$."

The following table displays the maximum observed value of each evaluation parameter for each geometric feature type.

Geometry Type	Maximum Observed Deviations					
	Separation (μm)	Tilt (arc seconds)	Radius/dist under (μm)	Radius/dist over (μm)	Apex under (arc seconds)	Apex over (arc seconds)
Lines	$< 10^{-5}$	7.9×10^{-6} data set 17	————	————	————	————
Lines 2D	$< 10^{-5}$	7.2×10^{-6} data set 21	————	————	————	————
Planes	$< 10^{-5}$	3.1×10^{-5} data set 17	————	————	————	————
Circles	2.3×10^{-5} data set 1	1.1×10^{-5} data set 25	2.1×10^{-5} data set 1	$< 10^{-5}$	————	————
Circles 2D	2.2×10^{-4} data set 11	1.8×10^{-6} data set 16	1.9×10^{-4} data set 11	1.3×10^{-4} data set 10	————	————
Spheres	1.5×10^{-3} data set 28	————	1.6×10^{-4} data set 7	8.2×10^{-4} data set 19	————	————
Cylinders	$< 10^{-5}$	7.5×10^{-4} data set 9	$< 10^{-5}$	$< 10^{-5}$	————	————
Cones	1.3×10^{-5} data set 24	4.1×10^{-4} data set 30	$< 10^{-5}$	1.0×10^{-5} data set 30	3.7×10^{-4} data set 30	8.8×10^{-5} data set 21

Detailed data concerning this Special Test are available from NIST on request. For detailed descriptions of the technical approach used for these test services and specifics on the test procedures see the following references.