



**National Voluntary
Laboratory Accreditation Program**



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200038-0

NVLAP Code: 20/A01 ANSI/NCSL Z540-1-1994; Part 1 Compliant

DIMENSIONAL

NVLAP Code: 20/D01
 Angular

<i>Range</i>	<i>Best Uncertainty</i> (\pm) ^{note 1}	<i>Remarks</i>
Angle Gage Blocks		
up to 6 inches in length	± 0.6 arc seconds	by comparison
Optical Cubes		
up to 4 inches in length	± 0.5 arc seconds	By comparison or closure method when possible.
Optical Polygons		
up to 12 inches in diameter Regular polygons with 3, 4, 5, 6, 8, 10, 12, 15, 16, 18, 24, 36, or 72 sides.	± 1.0 arc seconds	by comparison

2009-01-01 through 2009-12-31

Effective dates

Sally S. Bruce

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200038-0

NVLAP Code: 20/D03

Gage Blocks

Range	Best Uncertainty (\pm) <small>notes 1, 2, 3</small>	Remarks
Standard Size Gage Blocks		
thru 1.0 in	1.35 μin <small>note 6</small>	Master Grade Calibration
thru 25 mm	0.0335 μm <small>note 6</small>	Master Grade Calibration
> 1.0 in thru 4.0 in	(0.65 + 0.7 L) μin <small>note 6</small>	Master Grade Calibration
> 25 mm thru 100 mm	(0.016 + 0.7 L) μm <small>note 6</small>	Master Grade Calibration
> 4.0 in thru 20.0 in	(3.5 + 0.25 L) μin	Master Grade Calibration
> 100 mm thru 500 mm	(0.09 + 0.25 L) μm	Master Grade Calibration
Non Standard Size Gage Blocks		
thru 4.0 in	(1.4 + 0.6 L) μin <small>note 4</small>	Commercial Grade Calibration
thru 100 mm	(0.035 + 0.6 L) μm <small>note 5</small>	Commercial Grade Calibration
> 4.0 in thru 20.0 in	(6.0 + 0.3 L) μin	Commercial Grade Calibration
> 100 mm thru 500 mm	(0.15 + 0.3 L) μm	Commercial Grade Calibration
Non Standard Size Gage Blocks		
to 1.0 in	2.2 μin	Master Grade Calibration
to 25 mm	0.055 μm	Master Grade Calibration
> 1.0 in thru 4.6 in	(1.6 + 0.6 L) μin	Master Grade Calibration
> 25 mm thru 117 mm	(0.04 + 0.06 L) μm	Master Grade Calibration
> 4.6 in thru 20.0 in	(6.0 + 0.35 L) μin	Master Grade Calibration
> 117 mm thru 500 mm	(0.15 + 0.35 L) μm	Master Grade Calibration

NVLAP Code: 20/D05

Step Gages

Calibration of Webber Style Step Gages

Range	Best Uncertainty (\pm) <small>notes 1, 2, 3</small>	Remarks
to 85 in	(10 + 2.0 L) μin	Commercial Grade
to 2150 mm	(0.25 + 0.002 L) mm	Commercial Grade

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CALIBRATION LABORATORIES

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NVLAP Code: 20/D08
Optical Reference Planes

Range
up to 6 inches in diameter

Best Uncertainty (\pm)^{note 1}
 $\pm 3 \mu\text{in}$

Remarks
by comparison

1. Represents an expanded uncertainty using a coverage factor, $k = 2$, at an approximate level of confidence of 95 %.
2. Approximate value. Actual value determined by the test statistics.
3. L is in inches or meters as appropriate.
4. Uncertainty not less than $2.0 \mu\text{in}$.
5. Uncertainty not less than $0.05 \mu\text{m}$.
6. Best uncertainty is for gage blocks of chrome-carbide material. Best uncertainty for materials other than chrome-carbide may be approximately 40 % larger.

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