National Association for Proficiency Testing

A Non-Profit Organization Dedicated to Excellence in Metrology and Test Measurement

PRELIMINARY REPORT: NAPT-RING-106

This Preliminary Report documents the results for the ILC/PT listed below, covering all data presented to NAPT for evaluation by your organization. For tests with an established history, a Final Report will be issued after the 30 day review period expires. The Final Report will include a graphical representation of participants' values compared to the artifact mean and the values reported by the other participants.

Preliminary Results Reported To:	**Digital Measurement Metrology** Attention: Raj Sharma 26 Automatic Road, Unit 4 Brampton, ON L6S 5N7
Date Of Preliminary Report:	June 07, 2005
Date Of Participation in ILC/PT:	June 03, 2005

ILC/PT NAME:	NAPT-RING-106 set of 6 ring gages
Discipline:	Dimensional
Artifact Type:	Ring Gage
Manufacturer:	Ottawa Gage
Model Number:	n/a
Serial Number:	R-1001, R-1002, R-1003, R-1004, R-1005, R-1006

Data analysis of your reported values indicates that your organization performed 12 out of 12 measurements satisfactorily. Please note that reference data is subject to change between issuance of Preliminary and Final Reports. If any data reported in this Preliminary Report is incorrect or if you would like to submit any revisions/corrections of your reported data, please contact us within 30 days.

All NAPT programs are conducted in accordance with ISO/IEC Guide 43-1 and ILAC G13:2000 requirements for proficiency testing providers. Please contact NAPT with any questions regarding this Preliminary Report.

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Digital Measurement Metrology *Test Date: June 03, 2005*

NAPT-RING-106 *Report Date: June 07, 2005*

Preliminary analysis of the data your organization submitted to NAPT is shown below. Reported values are compared against the reference value only. In the Final Report, your reported values will also be analyzed against the values reported by other participants enrolled in this ILC/PT.

Measurement Description	Reported Value *Reference Value*	Reported Uncertainty *Reference Uncertainty*	En	S/U
Dimensional				
0.5 in - 1) R-1001/0.5 in: Angle 0 Deg	0.500005 Inch *0.499998*	0.00002 *0.000015*	0.28	S
0.5 in - 2) R-1001/0.5 in: Angle 90 Deg	0.500008 Inch *0.500000*	0.00002 *0.000015*	0.33	S
1 in - 3) R-1002/1.0 in: Angle 0 Deg	1.000010 Inch *0.999996*	0.000021 *0.000015*	0.54	S
1 in - 4) R-1002/1.0 in: Angle 90 Deg	1.000015 Inch *0.999995*	0.000021 *0.000015*	0.77	S
1.5 in - 5) R-1003/1.5 in: Angle 0 Deg	1.500010 Inch *1.499992*	0.000028 *0.000017*	0.55	S
1.5 in - 6) R-1003/1.5 in: Angle 90 Deg	1.500008 Inch *1.499993*	0.000028 *0.000017*	0.46	S
2 in - 7) R-1004/2.0 in: Angle 0 Deg	2.000005 Inch *1.999980*	0.000029 *0.00002*	0.71	S
2 in - 8) R-1004/2.0 in: Angle 90 Deg	2.000001 Inch *1.999981*	0.000029 *0.00002*	0.57	S
3 in - 9) R-1005/3.0 in: Angle 0 Deg	2.999990 Inch *3.000002*	0.00003 *0.000021*	0.32	S
3 in - 10) R-1005/3.0 in: Angle 90 Deg	2.999994 Inch *3.000004*	0.00003 *0.000021*	0.27	S
4 in - 11) R-1006/4.0 in: Angle 0 Deg	4.000020 Inch *4.000004*	0.000032 *0.000025*	0.39	S
4 in - 12) R-1006/4.0 in: Angle 90 Deg	4.000014 Inch *4.000007*	0.000032 *0.000025*	0.17	S

NOTES:
1. Values may be rounded. Rounding does not affect data analysis and is for reporting purposes only
2. All uncertainties are at (or normalized to) K=2 (coverage factor associated with a 2-sigma, 95%, normal distribution)
3. En = (participant's reported value - reference value) / SQRT (participant's reported uncertainty^2 + reference uncertainty^2)
4. S/U: S (Satisfactory) = participant's computed En is within range of ±1; U (Unsatisfactory) = participant's computed En is outside range of ±1

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