

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:58 BST 2023

Experiment info

| | |
|------|---------------------------------------|
| Name | csg524 Treated Sample 3 Measurement 5 |
| Type | Contact angle |
| Date | 18-May-2023 15:13 |

Solid

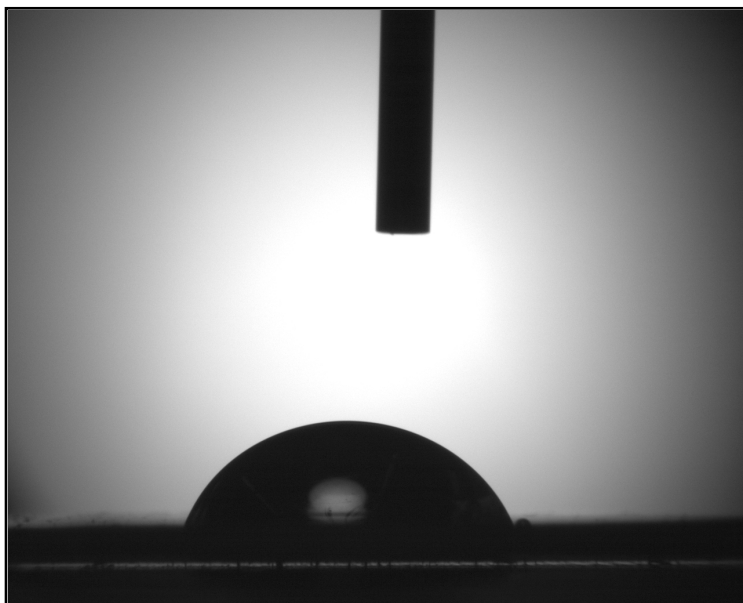
| | |
|------------------------------|-------------------------|
| Name | polypropylene untreated |
| γ_{tot} [mN/m] | 25.700 |
| γ_{d} [mN/m] | 25.300 |
| γ_{+} [mN/m] | 0.090 |
| γ_{-} [mN/m] | 0.500 |
| ρ [g/cm ³] | |

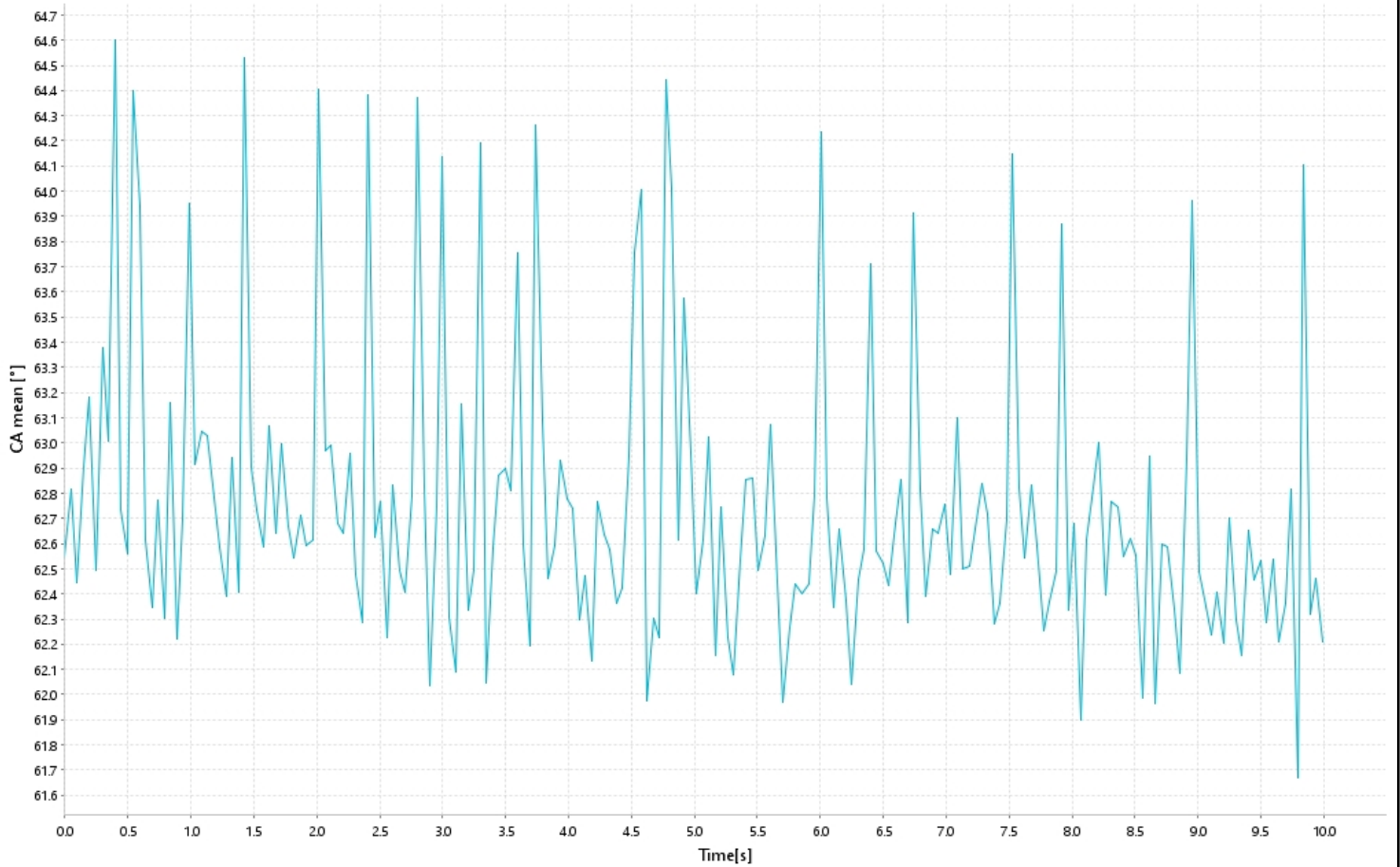
Heavy phase

| | |
|------------------------------|------------|
| Name | Water 20 C |
| γ_{tot} [mN/m] | 72.800 |
| γ_{d} [mN/m] | 21.800 |
| γ_{+} [mN/m] | 25.500 |
| γ_{-} [mN/m] | 25.500 |
| ρ [g/cm ³] | 0.9980 |
| η [mPa.s] | 1.002 |
| Temperature [°C] | 20.000 |
| Molecular weight [g/mol] | 18.010 |

Light phase

| | |
|------------------------------|--------|
| Name | Air |
| γ_{tot} [mN/m] | |
| γ_{d} [mN/m] | |
| γ_{+} [mN/m] | |
| γ_{-} [mN/m] | |
| ρ [g/cm ³] | 0.0012 |
| η [mPa.s] | |
| Temperature [°C] | 20.000 |
| Molecular weight [g/mol] | 0.029 |





Detailed results

| Time [s] | CA left [°] | CA right [°] | CA mean [°] | Volume [μl] | Baseline [mm] |
|----------|-------------|--------------|-------------|-------------|---------------|
| 0.00 | 63.63 | 61.47 | 62.55 | 0.16 | 1.17 |
| 0.05 | 63.75 | 61.88 | 62.82 | 0.17 | 1.18 |
| 0.10 | 63.42 | 61.47 | 62.44 | 0.17 | 1.17 |
| 0.15 | 64.05 | 61.76 | 62.91 | 0.17 | 1.18 |
| 0.20 | 63.68 | 62.69 | 63.18 | 0.19 | 1.18 |
| 0.25 | 62.91 | 62.08 | 62.49 | 0.18 | 1.17 |
| 0.30 | 64.07 | 62.69 | 63.38 | 0.19 | 1.18 |
| 0.34 | 63.56 | 62.45 | 63.01 | 0.19 | 1.18 |
| 0.39 | 65.62 | 63.58 | 64.60 | 0.20 | 1.19 |
| 0.44 | 63.55 | 61.92 | 62.73 | 0.17 | 1.18 |
| 0.49 | 63.46 | 61.66 | 62.56 | 0.17 | 1.17 |
| 0.54 | 65.60 | 63.19 | 64.40 | 0.18 | 1.19 |
| 0.59 | 65.25 | 62.63 | 63.94 | 0.18 | 1.19 |
| 0.64 | 63.61 | 61.62 | 62.62 | 0.17 | 1.17 |
| 0.69 | 63.27 | 61.42 | 62.34 | 0.16 | 1.17 |
| 0.74 | 63.75 | 61.79 | 62.77 | 0.17 | 1.18 |
| 0.79 | 63.20 | 61.40 | 62.30 | 0.16 | 1.17 |
| 0.84 | 64.21 | 62.11 | 63.16 | 0.17 | 1.18 |
| 0.89 | 63.22 | 61.22 | 62.22 | 0.16 | 1.17 |
| 0.93 | 63.77 | 61.62 | 62.70 | 0.17 | 1.17 |
| 0.98 | 65.19 | 62.71 | 63.95 | 0.18 | 1.19 |
| 1.03 | 63.93 | 61.89 | 62.91 | 0.17 | 1.18 |
| 1.08 | 63.97 | 62.12 | 63.04 | 0.17 | 1.18 |
| 1.13 | 64.09 | 61.96 | 63.03 | 0.17 | 1.18 |
| 1.18 | 63.72 | 61.85 | 62.78 | 0.17 | 1.18 |
| 1.23 | 63.58 | 61.59 | 62.58 | 0.17 | 1.17 |
| 1.28 | 63.36 | 61.42 | 62.39 | 0.16 | 1.17 |
| 1.33 | 63.92 | 61.96 | 62.94 | 0.17 | 1.18 |
| 1.38 | 63.46 | 61.36 | 62.41 | 0.16 | 1.17 |
| 1.43 | 65.86 | 63.20 | 64.53 | 0.18 | 1.19 |
| 1.48 | 63.79 | 62.01 | 62.90 | 0.17 | 1.18 |
| 1.53 | 63.70 | 61.77 | 62.73 | 0.17 | 1.18 |
| 1.57 | 63.60 | 61.58 | 62.59 | 0.17 | 1.17 |
| 1.62 | 64.17 | 61.96 | 63.07 | 0.17 | 1.18 |
| 1.67 | 63.53 | 61.75 | 62.64 | 0.17 | 1.18 |
| 1.72 | 64.02 | 61.97 | 63.00 | 0.17 | 1.18 |

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|------|-------|-------|-------|------|------|
| 1.77 | 63.72 | 61.61 | 62.67 | 0.17 | 1.18 |
| 1.82 | 63.42 | 61.67 | 62.55 | 0.17 | 1.17 |
| 1.87 | 63.68 | 61.75 | 62.71 | 0.17 | 1.18 |
| 1.92 | 63.56 | 61.63 | 62.59 | 0.17 | 1.17 |
| 1.97 | 63.60 | 61.62 | 62.61 | 0.16 | 1.17 |
| 2.02 | 65.73 | 63.08 | 64.40 | 0.18 | 1.19 |
| 2.07 | 64.04 | 61.89 | 62.97 | 0.17 | 1.18 |
| 2.12 | 63.97 | 62.01 | 62.99 | 0.17 | 1.18 |
| 2.16 | 63.65 | 61.71 | 62.68 | 0.17 | 1.18 |
| 2.21 | 63.57 | 61.72 | 62.64 | 0.17 | 1.18 |
| 2.26 | 63.97 | 61.95 | 62.96 | 0.17 | 1.18 |
| 2.31 | 63.49 | 61.46 | 62.48 | 0.16 | 1.17 |
| 2.36 | 63.16 | 61.41 | 62.28 | 0.16 | 1.17 |
| 2.41 | 65.68 | 63.08 | 64.38 | 0.18 | 1.19 |
| 2.46 | 63.66 | 61.59 | 62.62 | 0.17 | 1.17 |
| 2.51 | 63.80 | 61.74 | 62.77 | 0.17 | 1.18 |
| 2.56 | 63.21 | 61.24 | 62.23 | 0.16 | 1.17 |
| 2.61 | 63.77 | 61.89 | 62.83 | 0.17 | 1.18 |
| 2.66 | 63.47 | 61.51 | 62.49 | 0.16 | 1.17 |
| 2.71 | 63.40 | 61.41 | 62.40 | 0.16 | 1.17 |
| 2.76 | 63.72 | 61.86 | 62.79 | 0.17 | 1.18 |
| 2.80 | 65.67 | 63.07 | 64.37 | 0.18 | 1.19 |
| 2.85 | 63.87 | 61.79 | 62.83 | 0.17 | 1.18 |
| 2.90 | 63.04 | 61.03 | 62.04 | 0.16 | 1.17 |
| 2.95 | 63.74 | 61.75 | 62.75 | 0.17 | 1.18 |
| 3.00 | 65.37 | 62.91 | 64.14 | 0.18 | 1.19 |
| 3.05 | 63.24 | 61.38 | 62.31 | 0.16 | 1.17 |
| 3.10 | 63.03 | 61.14 | 62.09 | 0.16 | 1.17 |
| 3.15 | 64.20 | 62.11 | 63.16 | 0.17 | 1.18 |
| 3.20 | 63.33 | 61.34 | 62.34 | 0.16 | 1.17 |
| 3.25 | 63.60 | 61.38 | 62.49 | 0.16 | 1.17 |
| 3.30 | 65.27 | 63.11 | 64.19 | 0.18 | 1.19 |
| 3.35 | 62.95 | 61.15 | 62.05 | 0.16 | 1.17 |
| 3.40 | 63.52 | 61.64 | 62.58 | 0.17 | 1.18 |
| 3.44 | 63.85 | 61.89 | 62.87 | 0.17 | 1.18 |
| 3.49 | 64.00 | 61.80 | 62.90 | 0.17 | 1.18 |
| 3.54 | 63.72 | 61.91 | 62.81 | 0.17 | 1.18 |
| 3.59 | 65.17 | 62.34 | 63.76 | 0.18 | 1.18 |
| 3.64 | 63.70 | 61.50 | 62.60 | 0.17 | 1.17 |
| 3.69 | 63.14 | 61.25 | 62.19 | 0.16 | 1.17 |
| 3.74 | 65.51 | 63.01 | 64.26 | 0.18 | 1.19 |
| 3.79 | 64.04 | 62.15 | 63.10 | 0.17 | 1.18 |
| 3.84 | 63.45 | 61.48 | 62.46 | 0.17 | 1.17 |
| 3.89 | 63.60 | 61.58 | 62.59 | 0.17 | 1.17 |
| 3.94 | 63.96 | 61.90 | 62.93 | 0.17 | 1.18 |
| 3.99 | 63.77 | 61.79 | 62.78 | 0.17 | 1.18 |
| 4.03 | 63.85 | 61.63 | 62.74 | 0.17 | 1.18 |
| 4.08 | 63.29 | 61.31 | 62.30 | 0.16 | 1.17 |
| 4.13 | 63.33 | 61.61 | 62.47 | 0.17 | 1.17 |
| 4.18 | 62.97 | 61.30 | 62.13 | 0.16 | 1.17 |
| 4.23 | 63.80 | 61.74 | 62.77 | 0.17 | 1.18 |
| 4.28 | 63.75 | 61.52 | 62.64 | 0.17 | 1.17 |
| 4.33 | 63.62 | 61.54 | 62.58 | 0.17 | 1.18 |
| 4.38 | 63.37 | 61.36 | 62.36 | 0.16 | 1.17 |
| 4.43 | 63.39 | 61.45 | 62.42 | 0.16 | 1.17 |
| 4.48 | 64.00 | 61.89 | 62.95 | 0.17 | 1.18 |
| 4.53 | 65.01 | 62.50 | 63.75 | 0.17 | 1.18 |
| 4.58 | 65.24 | 62.77 | 64.01 | 0.18 | 1.19 |
| 4.63 | 62.85 | 61.10 | 61.98 | 0.16 | 1.17 |
| 4.67 | 63.30 | 61.30 | 62.30 | 0.16 | 1.17 |
| 4.72 | 63.20 | 61.26 | 62.23 | 0.16 | 1.17 |
| 4.77 | 65.72 | 63.16 | 64.44 | 0.18 | 1.19 |
| 4.82 | 65.27 | 62.76 | 64.01 | 0.18 | 1.19 |
| 4.87 | 63.64 | 61.59 | 62.61 | 0.17 | 1.17 |
| 4.92 | 64.85 | 62.30 | 63.58 | 0.17 | 1.18 |
| 4.97 | 64.03 | 61.89 | 62.96 | 0.17 | 1.18 |
| 5.02 | 63.38 | 61.42 | 62.40 | 0.16 | 1.17 |
| 5.07 | 63.55 | 61.68 | 62.62 | 0.17 | 1.18 |
| 5.12 | 63.98 | 62.06 | 63.02 | 0.17 | 1.18 |
| 5.17 | 63.16 | 61.15 | 62.15 | 0.16 | 1.17 |
| 5.22 | 63.69 | 61.80 | 62.75 | 0.17 | 1.18 |
| 5.26 | 63.12 | 61.34 | 62.23 | 0.16 | 1.17 |

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| 5.31 | 63.02 | 61.14 | 62.08 | 0.16 | 1.17 |
| 5.36 | 63.52 | 61.54 | 62.53 | 0.17 | 1.17 |
| 5.41 | 63.79 | 61.92 | 62.86 | 0.17 | 1.18 |
| 5.46 | 63.85 | 61.87 | 62.86 | 0.17 | 1.18 |
| 5.51 | 63.43 | 61.56 | 62.49 | 0.17 | 1.17 |
| 5.56 | 63.71 | 61.56 | 62.63 | 0.17 | 1.17 |
| 5.61 | 64.11 | 62.03 | 63.07 | 0.17 | 1.18 |
| 5.66 | 63.42 | 61.48 | 62.45 | 0.16 | 1.17 |
| 5.71 | 62.93 | 61.01 | 61.97 | 0.16 | 1.17 |
| 5.76 | 63.21 | 61.32 | 62.26 | 0.16 | 1.17 |
| 5.81 | 63.43 | 61.45 | 62.44 | 0.16 | 1.17 |
| 5.86 | 63.39 | 61.41 | 62.40 | 0.16 | 1.17 |
| 5.90 | 63.43 | 61.46 | 62.44 | 0.16 | 1.17 |
| 5.95 | 63.65 | 61.92 | 62.79 | 0.17 | 1.18 |
| 6.00 | 65.49 | 62.98 | 64.24 | 0.18 | 1.19 |
| 6.05 | 63.80 | 61.77 | 62.79 | 0.17 | 1.18 |
| 6.10 | 63.25 | 61.44 | 62.35 | 0.16 | 1.17 |
| 6.15 | 63.68 | 61.64 | 62.66 | 0.17 | 1.18 |
| 6.20 | 63.38 | 61.37 | 62.37 | 0.16 | 1.17 |
| 6.25 | 62.87 | 61.20 | 62.04 | 0.16 | 1.17 |
| 6.30 | 63.37 | 61.54 | 62.46 | 0.17 | 1.17 |
| 6.35 | 63.49 | 61.66 | 62.58 | 0.17 | 1.18 |
| 6.40 | 64.96 | 62.47 | 63.71 | 0.18 | 1.18 |
| 6.45 | 63.49 | 61.65 | 62.57 | 0.17 | 1.18 |
| 6.49 | 63.44 | 61.60 | 62.52 | 0.17 | 1.18 |
| 6.54 | 63.36 | 61.51 | 62.44 | 0.16 | 1.17 |
| 6.59 | 63.62 | 61.74 | 62.68 | 0.17 | 1.18 |
| 6.64 | 63.76 | 61.95 | 62.86 | 0.17 | 1.18 |
| 6.69 | 63.20 | 61.38 | 62.29 | 0.16 | 1.17 |
| 6.74 | 65.19 | 62.63 | 63.91 | 0.18 | 1.19 |
| 6.79 | 63.83 | 61.80 | 62.81 | 0.17 | 1.18 |
| 6.84 | 63.25 | 61.52 | 62.39 | 0.16 | 1.17 |
| 6.89 | 63.63 | 61.68 | 62.66 | 0.17 | 1.18 |
| 6.94 | 63.59 | 61.69 | 62.64 | 0.17 | 1.18 |
| 6.99 | 63.74 | 61.77 | 62.75 | 0.17 | 1.18 |
| 7.04 | 63.39 | 61.56 | 62.48 | 0.17 | 1.17 |
| 7.09 | 64.17 | 62.04 | 63.10 | 0.17 | 1.18 |
| 7.13 | 63.46 | 61.54 | 62.50 | 0.17 | 1.17 |
| 7.18 | 63.39 | 61.62 | 62.51 | 0.17 | 1.17 |
| 7.23 | 63.64 | 61.67 | 62.66 | 0.17 | 1.18 |
| 7.28 | 63.94 | 61.74 | 62.84 | 0.17 | 1.18 |
| 7.33 | 63.67 | 61.76 | 62.72 | 0.17 | 1.18 |
| 7.38 | 63.27 | 61.30 | 62.28 | 0.16 | 1.17 |
| 7.43 | 63.33 | 61.40 | 62.36 | 0.17 | 1.17 |
| 7.48 | 63.72 | 61.68 | 62.70 | 0.17 | 1.18 |
| 7.53 | 65.27 | 63.03 | 64.15 | 0.18 | 1.19 |
| 7.58 | 63.78 | 61.86 | 62.82 | 0.17 | 1.18 |
| 7.63 | 63.59 | 61.50 | 62.54 | 0.16 | 1.18 |
| 7.68 | 63.85 | 61.81 | 62.83 | 0.17 | 1.18 |
| 7.73 | 63.63 | 61.55 | 62.59 | 0.17 | 1.18 |
| 7.77 | 63.21 | 61.30 | 62.25 | 0.16 | 1.17 |
| 7.82 | 63.36 | 61.38 | 62.37 | 0.16 | 1.17 |
| 7.87 | 63.48 | 61.49 | 62.49 | 0.17 | 1.17 |
| 7.92 | 65.08 | 62.66 | 63.87 | 0.18 | 1.19 |
| 7.97 | 63.29 | 61.38 | 62.34 | 0.16 | 1.17 |
| 8.02 | 63.71 | 61.64 | 62.68 | 0.17 | 1.18 |
| 8.07 | 62.74 | 61.06 | 61.90 | 0.16 | 1.17 |
| 8.12 | 63.51 | 61.72 | 62.61 | 0.17 | 1.18 |
| 8.17 | 63.77 | 61.88 | 62.82 | 0.17 | 1.18 |
| 8.22 | 64.00 | 62.00 | 63.00 | 0.17 | 1.18 |
| 8.27 | 63.34 | 61.45 | 62.40 | 0.16 | 1.17 |
| 8.32 | 63.71 | 61.83 | 62.77 | 0.17 | 1.18 |
| 8.36 | 63.77 | 61.72 | 62.75 | 0.17 | 1.18 |
| 8.41 | 63.50 | 61.60 | 62.55 | 0.17 | 1.18 |
| 8.46 | 63.46 | 61.77 | 62.62 | 0.17 | 1.18 |
| 8.51 | 63.64 | 61.47 | 62.55 | 0.17 | 1.17 |
| 8.56 | 62.92 | 61.05 | 61.98 | 0.16 | 1.17 |
| 8.61 | 63.90 | 61.99 | 62.95 | 0.17 | 1.18 |
| 8.66 | 62.82 | 61.11 | 61.97 | 0.16 | 1.17 |
| 8.71 | 63.68 | 61.52 | 62.60 | 0.17 | 1.18 |
| 8.76 | 63.48 | 61.69 | 62.59 | 0.17 | 1.18 |
| 8.81 | 63.33 | 61.36 | 62.34 | 0.16 | 1.17 |

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|------|-------|-------|-------|------|------|
| 8.86 | 63.16 | 61.02 | 62.09 | 0.16 | 1.17 |
| 8.91 | 63.90 | 61.98 | 62.94 | 0.17 | 1.18 |
| 8.96 | 65.18 | 62.74 | 63.96 | 0.18 | 1.19 |
| 9.00 | 63.45 | 61.53 | 62.49 | 0.17 | 1.17 |
| 9.05 | 63.50 | 61.25 | 62.38 | 0.16 | 1.17 |
| 9.10 | 63.20 | 61.27 | 62.24 | 0.16 | 1.17 |
| 9.15 | 63.44 | 61.38 | 62.41 | 0.16 | 1.17 |
| 9.20 | 63.18 | 61.23 | 62.21 | 0.16 | 1.17 |
| 9.25 | 63.66 | 61.75 | 62.70 | 0.17 | 1.18 |
| 9.30 | 63.24 | 61.35 | 62.29 | 0.16 | 1.17 |
| 9.35 | 63.07 | 61.25 | 62.16 | 0.16 | 1.17 |
| 9.40 | 63.51 | 61.79 | 62.65 | 0.17 | 1.18 |
| 9.45 | 63.48 | 61.42 | 62.45 | 0.16 | 1.17 |
| 9.50 | 63.54 | 61.52 | 62.53 | 0.17 | 1.17 |
| 9.55 | 63.34 | 61.23 | 62.29 | 0.16 | 1.17 |
| 9.59 | 63.56 | 61.52 | 62.54 | 0.17 | 1.18 |
| 9.64 | 63.05 | 61.36 | 62.21 | 0.16 | 1.17 |
| 9.69 | 63.30 | 61.42 | 62.36 | 0.16 | 1.17 |
| 9.74 | 63.77 | 61.86 | 62.82 | 0.17 | 1.18 |
| 9.79 | 62.60 | 60.73 | 61.67 | 0.16 | 1.17 |
| 9.84 | 65.36 | 62.85 | 64.10 | 0.18 | 1.19 |
| 9.89 | 63.41 | 61.22 | 62.32 | 0.16 | 1.17 |
| 9.94 | 63.53 | 61.39 | 62.46 | 0.16 | 1.17 |
| 9.99 | 63.07 | 61.35 | 62.21 | 0.16 | 1.17 |