

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Tue May 16 14:25:29 BST 2023

Experiment info

| | |
|------|-------------------------------|
| Name | csg524 Sample 4 Measurement 5 |
| Type | Contact angle |
| Date | 16-May-2023 14:15 |

Solid

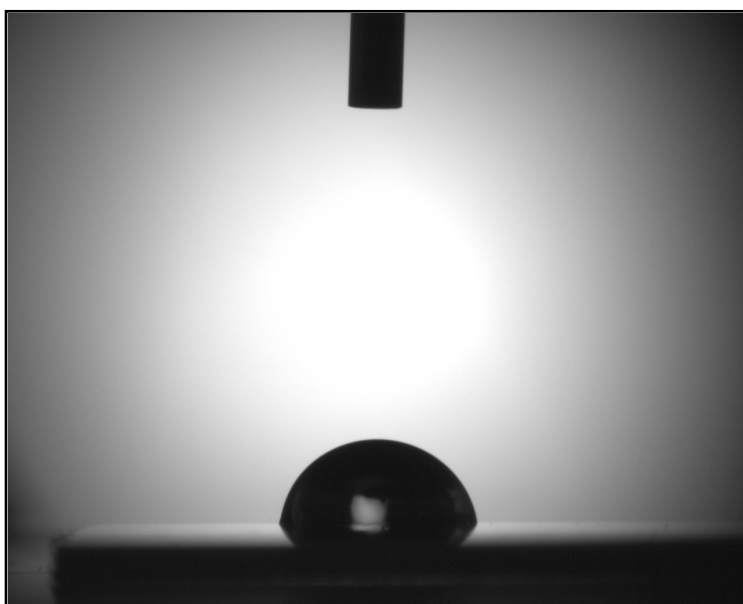
| | |
|------------------------------|-------------------------|
| Name | polypropylene untreated |
| γ_{tot} [mN/m] | 25.700 |
| γ_{d} [mN/m] | 25.300 |
| γ_{+} [mN/m] | 0.090 |
| γ_{-} [mN/m] | 0.500 |
| ρ [g/cm ³] | |

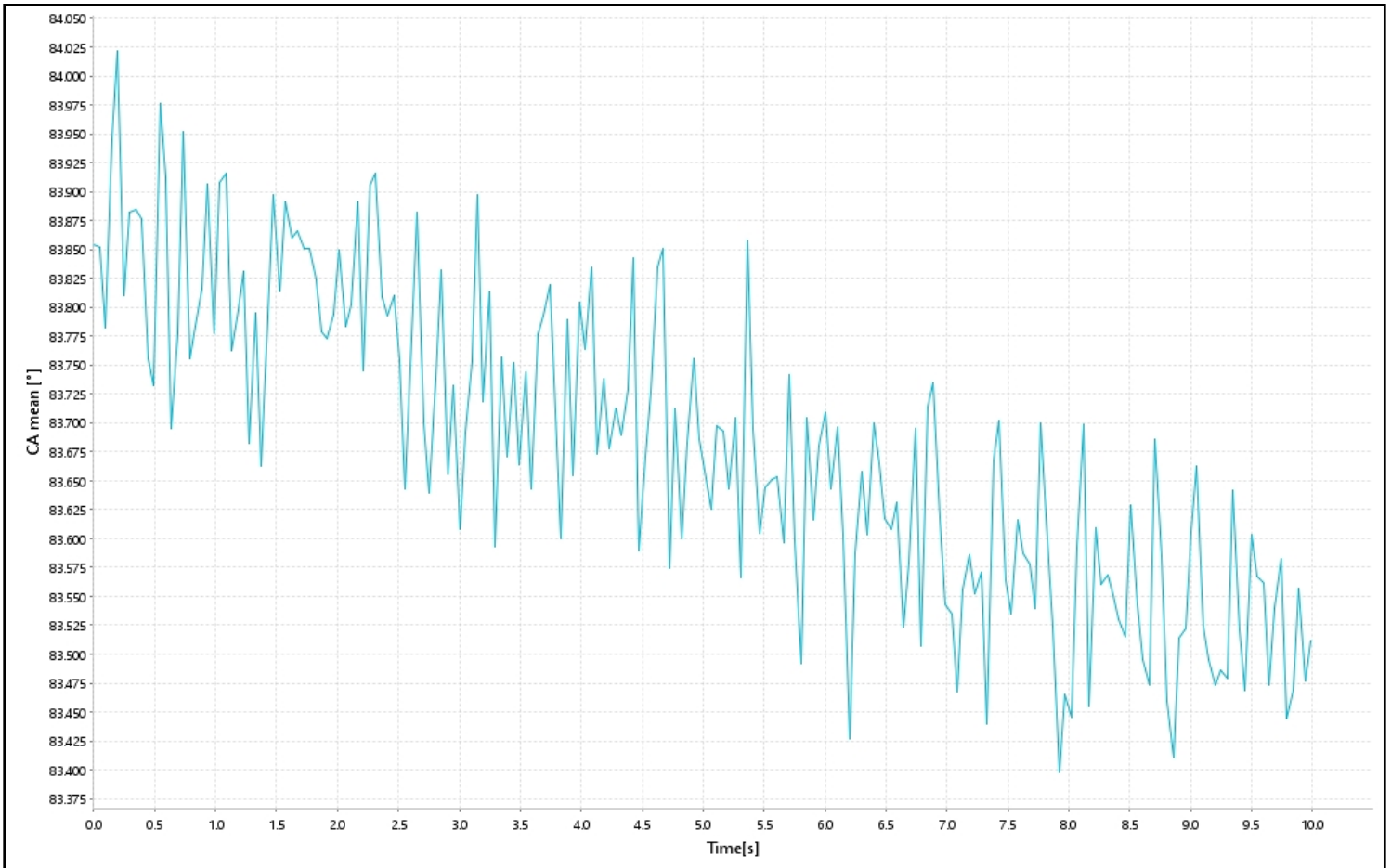
Heavy phase

| | |
|------------------------------|------------|
| 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 | 85.45 | 82.26 | 83.85 | 0.06 | 0.73 |
| 0.05 | 85.45 | 82.25 | 83.85 | 0.06 | 0.73 |
| 0.10 | 85.44 | 82.13 | 83.78 | 0.06 | 0.73 |
| 0.15 | 85.57 | 82.32 | 83.94 | 0.06 | 0.73 |
| 0.20 | 85.72 | 82.33 | 84.02 | 0.06 | 0.73 |
| 0.25 | 85.45 | 82.17 | 83.81 | 0.06 | 0.73 |
| 0.30 | 85.57 | 82.19 | 83.88 | 0.06 | 0.73 |
| 0.34 | 85.49 | 82.28 | 83.88 | 0.06 | 0.73 |
| 0.39 | 85.52 | 82.24 | 83.88 | 0.06 | 0.73 |
| 0.44 | 85.39 | 82.12 | 83.76 | 0.06 | 0.73 |
| 0.49 | 85.34 | 82.12 | 83.73 | 0.06 | 0.73 |
| 0.54 | 85.60 | 82.35 | 83.98 | 0.06 | 0.73 |
| 0.59 | 85.59 | 82.24 | 83.91 | 0.06 | 0.73 |
| 0.64 | 85.30 | 82.09 | 83.69 | 0.06 | 0.73 |
| 0.69 | 85.36 | 82.20 | 83.78 | 0.06 | 0.73 |
| 0.74 | 85.62 | 82.28 | 83.95 | 0.06 | 0.73 |
| 0.79 | 85.31 | 82.20 | 83.76 | 0.06 | 0.73 |
| 0.84 | 85.45 | 82.12 | 83.78 | 0.06 | 0.73 |
| 0.89 | 85.47 | 82.16 | 83.82 | 0.06 | 0.73 |
| 0.93 | 85.57 | 82.24 | 83.91 | 0.06 | 0.73 |
| 0.98 | 85.37 | 82.19 | 83.78 | 0.06 | 0.73 |
| 1.03 | 85.52 | 82.29 | 83.91 | 0.06 | 0.73 |
| 1.08 | 85.57 | 82.26 | 83.92 | 0.06 | 0.73 |
| 1.13 | 85.38 | 82.15 | 83.76 | 0.06 | 0.73 |
| 1.18 | 85.40 | 82.20 | 83.80 | 0.06 | 0.73 |
| 1.23 | 85.44 | 82.23 | 83.83 | 0.06 | 0.73 |
| 1.28 | 85.32 | 82.05 | 83.68 | 0.06 | 0.73 |
| 1.33 | 85.45 | 82.14 | 83.79 | 0.06 | 0.73 |
| 1.38 | 85.28 | 82.04 | 83.66 | 0.06 | 0.73 |
| 1.43 | 85.37 | 82.21 | 83.79 | 0.06 | 0.73 |
| 1.48 | 85.51 | 82.28 | 83.90 | 0.06 | 0.73 |
| 1.53 | 85.37 | 82.26 | 83.81 | 0.06 | 0.73 |
| 1.57 | 85.49 | 82.29 | 83.89 | 0.06 | 0.73 |
| 1.62 | 85.44 | 82.28 | 83.86 | 0.06 | 0.73 |
| 1.67 | 85.58 | 82.15 | 83.87 | 0.06 | 0.73 |
| 1.72 | 85.49 | 82.21 | 83.85 | 0.06 | 0.73 |

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|------|-------|-------|-------|------|------|
| 1.77 | 85.52 | 82.18 | 83.85 | 0.06 | 0.73 |
| 1.82 | 85.44 | 82.21 | 83.82 | 0.06 | 0.73 |
| 1.87 | 85.35 | 82.20 | 83.78 | 0.06 | 0.73 |
| 1.92 | 85.35 | 82.20 | 83.77 | 0.06 | 0.73 |
| 1.97 | 85.42 | 82.16 | 83.79 | 0.06 | 0.73 |
| 2.02 | 85.54 | 82.16 | 83.85 | 0.06 | 0.73 |
| 2.07 | 85.37 | 82.20 | 83.78 | 0.06 | 0.73 |
| 2.12 | 85.45 | 82.16 | 83.80 | 0.06 | 0.73 |
| 2.17 | 85.56 | 82.22 | 83.89 | 0.06 | 0.73 |
| 2.21 | 85.37 | 82.12 | 83.75 | 0.06 | 0.73 |
| 2.26 | 85.52 | 82.30 | 83.91 | 0.06 | 0.73 |
| 2.31 | 85.57 | 82.26 | 83.92 | 0.06 | 0.73 |
| 2.36 | 85.42 | 82.20 | 83.81 | 0.06 | 0.73 |
| 2.41 | 85.46 | 82.12 | 83.79 | 0.06 | 0.73 |
| 2.46 | 85.46 | 82.16 | 83.81 | 0.06 | 0.73 |
| 2.51 | 85.38 | 82.13 | 83.75 | 0.06 | 0.73 |
| 2.56 | 85.29 | 82.00 | 83.64 | 0.06 | 0.73 |
| 2.61 | 85.38 | 82.16 | 83.77 | 0.06 | 0.73 |
| 2.66 | 85.55 | 82.21 | 83.88 | 0.06 | 0.73 |
| 2.71 | 85.34 | 82.07 | 83.70 | 0.06 | 0.73 |
| 2.76 | 85.29 | 81.99 | 83.64 | 0.06 | 0.73 |
| 2.80 | 85.32 | 82.16 | 83.74 | 0.06 | 0.73 |
| 2.85 | 85.45 | 82.21 | 83.83 | 0.06 | 0.73 |
| 2.90 | 85.26 | 82.05 | 83.66 | 0.06 | 0.73 |
| 2.95 | 85.32 | 82.14 | 83.73 | 0.06 | 0.73 |
| 3.00 | 85.20 | 82.02 | 83.61 | 0.06 | 0.73 |
| 3.05 | 85.40 | 81.98 | 83.69 | 0.06 | 0.73 |
| 3.10 | 85.39 | 82.11 | 83.75 | 0.06 | 0.73 |
| 3.15 | 85.49 | 82.31 | 83.90 | 0.06 | 0.73 |
| 3.20 | 85.35 | 82.08 | 83.72 | 0.06 | 0.73 |
| 3.25 | 85.50 | 82.13 | 83.81 | 0.06 | 0.73 |
| 3.30 | 85.19 | 81.99 | 83.59 | 0.06 | 0.73 |
| 3.35 | 85.41 | 82.10 | 83.76 | 0.06 | 0.73 |
| 3.40 | 85.31 | 82.04 | 83.67 | 0.06 | 0.73 |
| 3.44 | 85.37 | 82.13 | 83.75 | 0.06 | 0.73 |
| 3.49 | 85.23 | 82.10 | 83.66 | 0.06 | 0.73 |
| 3.54 | 85.49 | 82.00 | 83.74 | 0.06 | 0.73 |
| 3.59 | 85.28 | 82.01 | 83.64 | 0.06 | 0.73 |
| 3.64 | 85.44 | 82.11 | 83.78 | 0.06 | 0.73 |
| 3.69 | 85.40 | 82.19 | 83.79 | 0.06 | 0.73 |
| 3.74 | 85.47 | 82.17 | 83.82 | 0.06 | 0.73 |
| 3.79 | 85.34 | 82.08 | 83.71 | 0.06 | 0.73 |
| 3.84 | 85.21 | 81.99 | 83.60 | 0.06 | 0.73 |
| 3.89 | 85.38 | 82.20 | 83.79 | 0.06 | 0.73 |
| 3.94 | 85.25 | 82.06 | 83.65 | 0.06 | 0.73 |
| 3.99 | 85.44 | 82.17 | 83.80 | 0.06 | 0.73 |
| 4.03 | 85.31 | 82.22 | 83.76 | 0.06 | 0.73 |
| 4.08 | 85.48 | 82.19 | 83.83 | 0.06 | 0.73 |
| 4.13 | 85.25 | 82.09 | 83.67 | 0.06 | 0.73 |
| 4.18 | 85.39 | 82.09 | 83.74 | 0.06 | 0.73 |
| 4.23 | 85.25 | 82.10 | 83.68 | 0.06 | 0.73 |
| 4.28 | 85.28 | 82.14 | 83.71 | 0.06 | 0.73 |
| 4.33 | 85.32 | 82.06 | 83.69 | 0.06 | 0.73 |
| 4.38 | 85.36 | 82.09 | 83.73 | 0.06 | 0.73 |
| 4.43 | 85.49 | 82.19 | 83.84 | 0.06 | 0.73 |
| 4.48 | 85.23 | 81.95 | 83.59 | 0.06 | 0.73 |
| 4.53 | 85.32 | 82.02 | 83.67 | 0.06 | 0.73 |
| 4.58 | 85.38 | 82.08 | 83.73 | 0.06 | 0.73 |
| 4.63 | 85.45 | 82.22 | 83.83 | 0.06 | 0.73 |
| 4.67 | 85.40 | 82.30 | 83.85 | 0.06 | 0.73 |
| 4.72 | 85.23 | 81.92 | 83.57 | 0.06 | 0.73 |
| 4.77 | 85.34 | 82.09 | 83.71 | 0.06 | 0.73 |
| 4.82 | 85.29 | 81.91 | 83.60 | 0.06 | 0.73 |
| 4.87 | 85.28 | 82.09 | 83.68 | 0.06 | 0.73 |
| 4.92 | 85.40 | 82.11 | 83.76 | 0.06 | 0.73 |
| 4.97 | 85.33 | 82.04 | 83.69 | 0.06 | 0.73 |
| 5.02 | 85.33 | 81.98 | 83.65 | 0.06 | 0.73 |
| 5.07 | 85.28 | 81.97 | 83.63 | 0.06 | 0.73 |
| 5.12 | 85.35 | 82.05 | 83.70 | 0.06 | 0.73 |
| 5.17 | 85.33 | 82.05 | 83.69 | 0.06 | 0.73 |
| 5.22 | 85.25 | 82.04 | 83.64 | 0.06 | 0.73 |
| 5.26 | 85.34 | 82.06 | 83.70 | 0.06 | 0.73 |

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| 5.31 | 85.21 | 81.92 | 83.57 | 0.06 | 0.73 |
| 5.36 | 85.49 | 82.23 | 83.86 | 0.06 | 0.73 |
| 5.41 | 85.33 | 82.06 | 83.69 | 0.06 | 0.73 |
| 5.46 | 85.22 | 81.99 | 83.60 | 0.06 | 0.73 |
| 5.51 | 85.27 | 82.02 | 83.64 | 0.06 | 0.73 |
| 5.56 | 85.26 | 82.04 | 83.65 | 0.06 | 0.73 |
| 5.61 | 85.28 | 82.02 | 83.65 | 0.06 | 0.73 |
| 5.66 | 85.20 | 82.00 | 83.60 | 0.06 | 0.73 |
| 5.71 | 85.31 | 82.17 | 83.74 | 0.06 | 0.73 |
| 5.76 | 85.21 | 81.98 | 83.60 | 0.06 | 0.73 |
| 5.81 | 85.18 | 81.81 | 83.49 | 0.06 | 0.73 |
| 5.86 | 85.31 | 82.10 | 83.70 | 0.06 | 0.73 |
| 5.90 | 85.26 | 81.98 | 83.62 | 0.06 | 0.73 |
| 5.95 | 85.33 | 82.03 | 83.68 | 0.06 | 0.73 |
| 6.00 | 85.34 | 82.08 | 83.71 | 0.06 | 0.73 |
| 6.05 | 85.31 | 81.98 | 83.64 | 0.06 | 0.73 |
| 6.10 | 85.35 | 82.04 | 83.70 | 0.06 | 0.73 |
| 6.15 | 85.20 | 82.00 | 83.60 | 0.06 | 0.73 |
| 6.20 | 85.09 | 81.77 | 83.43 | 0.06 | 0.73 |
| 6.25 | 85.18 | 82.00 | 83.59 | 0.06 | 0.73 |
| 6.30 | 85.32 | 81.99 | 83.66 | 0.06 | 0.73 |
| 6.35 | 85.18 | 82.02 | 83.60 | 0.06 | 0.73 |
| 6.40 | 85.34 | 82.05 | 83.70 | 0.06 | 0.73 |
| 6.45 | 85.23 | 82.09 | 83.66 | 0.06 | 0.73 |
| 6.49 | 85.29 | 81.95 | 83.62 | 0.06 | 0.73 |
| 6.54 | 85.24 | 81.98 | 83.61 | 0.06 | 0.73 |
| 6.59 | 85.22 | 82.04 | 83.63 | 0.06 | 0.73 |
| 6.64 | 85.13 | 81.92 | 83.52 | 0.06 | 0.73 |
| 6.69 | 85.23 | 81.93 | 83.58 | 0.06 | 0.73 |
| 6.74 | 85.28 | 82.11 | 83.70 | 0.06 | 0.73 |
| 6.79 | 85.16 | 81.86 | 83.51 | 0.06 | 0.73 |
| 6.84 | 85.31 | 82.11 | 83.71 | 0.06 | 0.73 |
| 6.89 | 85.33 | 82.13 | 83.73 | 0.06 | 0.73 |
| 6.94 | 85.20 | 82.03 | 83.62 | 0.06 | 0.73 |
| 6.99 | 85.10 | 81.98 | 83.54 | 0.06 | 0.73 |
| 7.04 | 85.20 | 81.87 | 83.54 | 0.06 | 0.73 |
| 7.09 | 85.11 | 81.82 | 83.47 | 0.06 | 0.73 |
| 7.13 | 85.20 | 81.91 | 83.56 | 0.06 | 0.73 |
| 7.18 | 85.17 | 82.00 | 83.59 | 0.06 | 0.73 |
| 7.23 | 85.18 | 81.93 | 83.55 | 0.06 | 0.73 |
| 7.28 | 85.13 | 82.01 | 83.57 | 0.06 | 0.73 |
| 7.33 | 85.07 | 81.81 | 83.44 | 0.06 | 0.73 |
| 7.38 | 85.26 | 82.08 | 83.67 | 0.06 | 0.73 |
| 7.43 | 85.31 | 82.09 | 83.70 | 0.06 | 0.73 |
| 7.48 | 85.20 | 81.93 | 83.56 | 0.06 | 0.73 |
| 7.53 | 85.15 | 81.92 | 83.54 | 0.06 | 0.73 |
| 7.58 | 85.26 | 81.98 | 83.62 | 0.06 | 0.73 |
| 7.63 | 85.28 | 81.90 | 83.59 | 0.06 | 0.73 |
| 7.68 | 85.23 | 81.93 | 83.58 | 0.06 | 0.73 |
| 7.73 | 85.17 | 81.91 | 83.54 | 0.06 | 0.73 |
| 7.77 | 85.35 | 82.05 | 83.70 | 0.06 | 0.73 |
| 7.82 | 85.14 | 82.06 | 83.60 | 0.06 | 0.73 |
| 7.87 | 85.12 | 81.93 | 83.52 | 0.06 | 0.73 |
| 7.92 | 85.02 | 81.77 | 83.40 | 0.06 | 0.73 |
| 7.97 | 85.17 | 81.76 | 83.46 | 0.06 | 0.73 |
| 8.02 | 85.01 | 81.88 | 83.45 | 0.06 | 0.73 |
| 8.07 | 85.26 | 81.93 | 83.59 | 0.06 | 0.73 |
| 8.12 | 85.30 | 82.10 | 83.70 | 0.06 | 0.73 |
| 8.17 | 85.09 | 81.82 | 83.45 | 0.06 | 0.73 |
| 8.22 | 85.18 | 82.03 | 83.61 | 0.06 | 0.73 |
| 8.27 | 85.19 | 81.93 | 83.56 | 0.06 | 0.73 |
| 8.32 | 85.22 | 81.92 | 83.57 | 0.06 | 0.73 |
| 8.36 | 85.13 | 81.97 | 83.55 | 0.06 | 0.73 |
| 8.41 | 85.16 | 81.90 | 83.53 | 0.06 | 0.73 |
| 8.46 | 85.13 | 81.89 | 83.51 | 0.06 | 0.73 |
| 8.51 | 85.24 | 82.02 | 83.63 | 0.06 | 0.73 |
| 8.56 | 85.11 | 81.98 | 83.54 | 0.06 | 0.73 |
| 8.61 | 85.15 | 81.84 | 83.49 | 0.06 | 0.73 |
| 8.66 | 85.12 | 81.82 | 83.47 | 0.06 | 0.73 |
| 8.71 | 85.30 | 82.07 | 83.69 | 0.06 | 0.73 |
| 8.76 | 85.17 | 82.00 | 83.59 | 0.06 | 0.73 |
| 8.81 | 85.11 | 81.81 | 83.46 | 0.06 | 0.73 |

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|------|-------|-------|-------|------|------|
| 8.86 | 85.03 | 81.80 | 83.41 | 0.06 | 0.73 |
| 8.91 | 85.17 | 81.86 | 83.51 | 0.06 | 0.73 |
| 8.96 | 85.15 | 81.89 | 83.52 | 0.06 | 0.73 |
| 9.00 | 85.22 | 82.00 | 83.61 | 0.06 | 0.73 |
| 9.05 | 85.25 | 82.08 | 83.66 | 0.06 | 0.73 |
| 9.10 | 85.15 | 81.90 | 83.52 | 0.06 | 0.73 |
| 9.15 | 85.13 | 81.86 | 83.50 | 0.06 | 0.73 |
| 9.20 | 85.13 | 81.82 | 83.47 | 0.06 | 0.73 |
| 9.25 | 85.09 | 81.88 | 83.49 | 0.06 | 0.73 |
| 9.30 | 85.14 | 81.82 | 83.48 | 0.06 | 0.73 |
| 9.35 | 85.28 | 82.00 | 83.64 | 0.06 | 0.73 |
| 9.40 | 85.12 | 81.92 | 83.52 | 0.06 | 0.73 |
| 9.45 | 85.09 | 81.84 | 83.47 | 0.06 | 0.73 |
| 9.50 | 85.18 | 82.02 | 83.60 | 0.06 | 0.73 |
| 9.55 | 85.24 | 81.90 | 83.57 | 0.06 | 0.73 |
| 9.59 | 85.17 | 81.95 | 83.56 | 0.06 | 0.73 |
| 9.64 | 85.17 | 81.78 | 83.47 | 0.06 | 0.73 |
| 9.69 | 85.08 | 82.00 | 83.54 | 0.06 | 0.73 |
| 9.74 | 85.22 | 81.94 | 83.58 | 0.06 | 0.73 |
| 9.79 | 85.09 | 81.80 | 83.44 | 0.06 | 0.73 |
| 9.84 | 85.09 | 81.85 | 83.47 | 0.06 | 0.73 |
| 9.89 | 85.20 | 81.92 | 83.56 | 0.06 | 0.73 |
| 9.94 | 85.13 | 81.82 | 83.48 | 0.06 | 0.73 |
| 9.99 | 85.17 | 81.85 | 83.51 | 0.06 | 0.73 |