

OneAttension experiment report

Generated with OneAttension Version 3.2 (r5971)

Thu May 18 15:58:42 BST 2023

Experiment info

| | |
|------|---------------------------------------|
| Name | csg524 Treated Sample 3 Measurement 2 |
| Type | Contact angle |
| Date | 18-May-2023 15:02 |

Solid

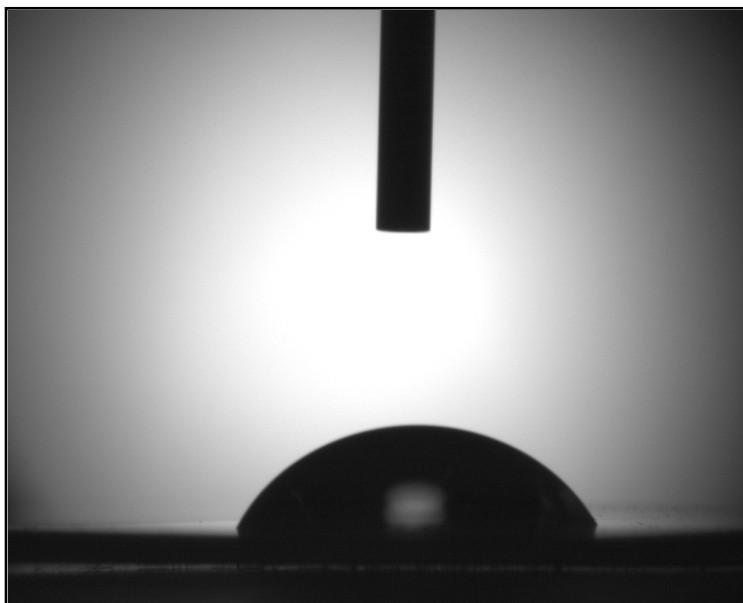
| | |
|------------------------------|-------------------------|
| Name | polypropylene untreated |
| γ_{tot} [mN/m] | 25.700 |
| γ_{d} [mN/m] | 25.300 |
| γ_{+} [mN/m] | 0.090 |
| γ_{-} [mN/m] | 0.500 |
| ρ [g/cm ³] | |

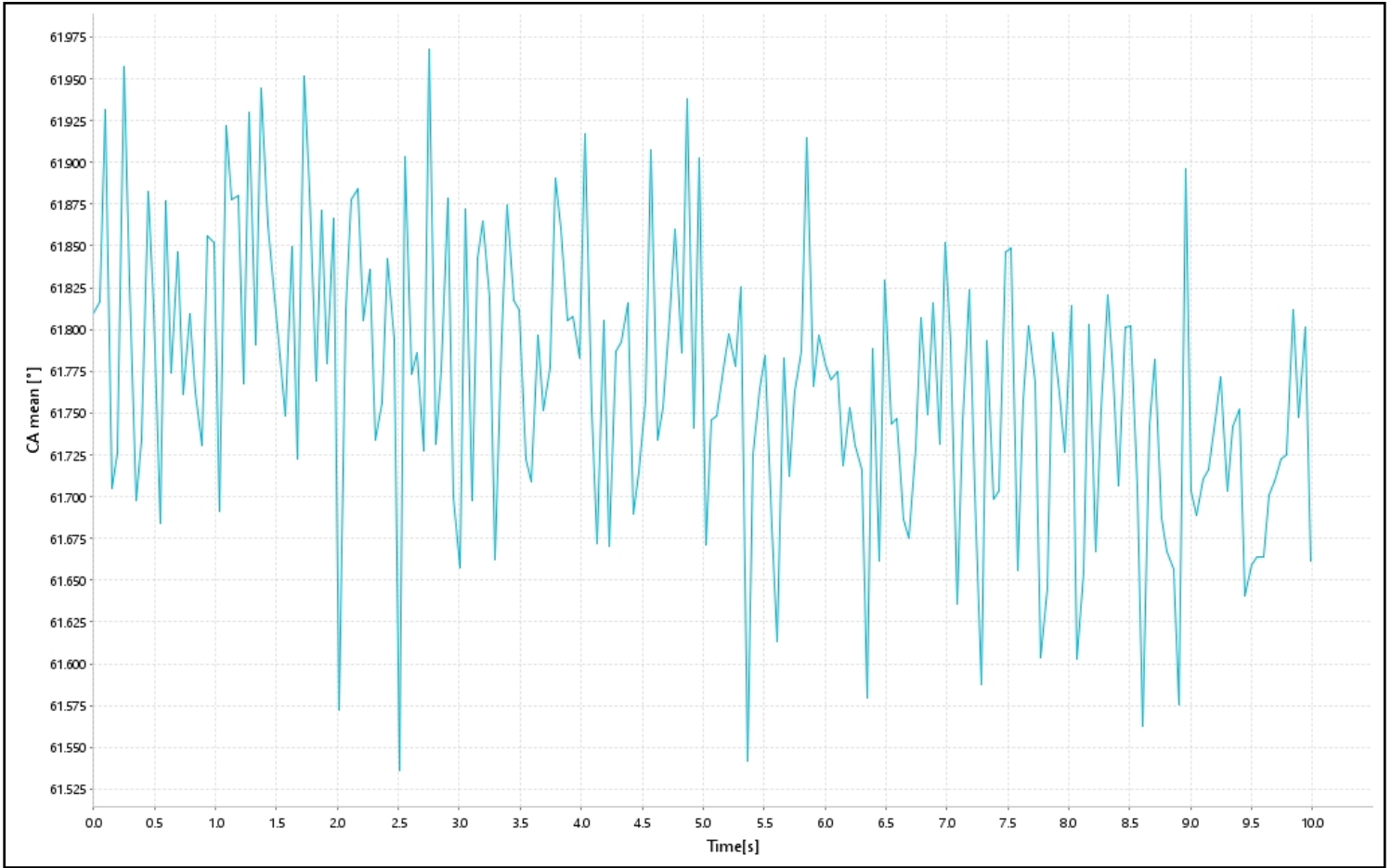
Heavy phase

| | |
|------------------------------|------------|
| 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 | 62.11 | 61.51 | 61.81 | 0.29 | 1.34 |
| 0.05 | 61.97 | 61.66 | 61.82 | 0.29 | 1.34 |
| 0.10 | 62.10 | 61.76 | 61.93 | 0.30 | 1.34 |
| 0.15 | 61.89 | 61.52 | 61.70 | 0.30 | 1.34 |
| 0.20 | 61.98 | 61.47 | 61.73 | 0.29 | 1.34 |
| 0.25 | 62.22 | 61.70 | 61.96 | 0.30 | 1.34 |
| 0.30 | 61.98 | 61.68 | 61.83 | 0.30 | 1.34 |
| 0.34 | 61.83 | 61.56 | 61.70 | 0.30 | 1.34 |
| 0.39 | 61.87 | 61.60 | 61.73 | 0.29 | 1.34 |
| 0.44 | 62.09 | 61.67 | 61.88 | 0.30 | 1.34 |
| 0.49 | 62.08 | 61.55 | 61.81 | 0.30 | 1.34 |
| 0.54 | 61.86 | 61.51 | 61.68 | 0.30 | 1.34 |
| 0.59 | 62.04 | 61.71 | 61.88 | 0.30 | 1.34 |
| 0.64 | 61.97 | 61.58 | 61.77 | 0.29 | 1.34 |
| 0.69 | 62.02 | 61.67 | 61.85 | 0.30 | 1.34 |
| 0.74 | 61.92 | 61.60 | 61.76 | 0.30 | 1.34 |
| 0.79 | 62.01 | 61.61 | 61.81 | 0.30 | 1.34 |
| 0.84 | 61.98 | 61.55 | 61.76 | 0.29 | 1.34 |
| 0.89 | 61.87 | 61.59 | 61.73 | 0.29 | 1.34 |
| 0.93 | 62.08 | 61.64 | 61.86 | 0.30 | 1.34 |
| 0.98 | 62.02 | 61.69 | 61.85 | 0.29 | 1.34 |
| 1.03 | 61.87 | 61.51 | 61.69 | 0.29 | 1.34 |
| 1.08 | 62.18 | 61.67 | 61.92 | 0.29 | 1.34 |
| 1.13 | 62.06 | 61.70 | 61.88 | 0.29 | 1.34 |
| 1.18 | 62.10 | 61.66 | 61.88 | 0.29 | 1.34 |
| 1.23 | 61.97 | 61.57 | 61.77 | 0.30 | 1.34 |
| 1.28 | 62.10 | 61.76 | 61.93 | 0.30 | 1.34 |
| 1.33 | 62.00 | 61.58 | 61.79 | 0.29 | 1.34 |
| 1.38 | 62.17 | 61.72 | 61.94 | 0.30 | 1.34 |
| 1.43 | 62.00 | 61.73 | 61.86 | 0.30 | 1.34 |
| 1.48 | 62.07 | 61.58 | 61.83 | 0.30 | 1.34 |
| 1.53 | 62.00 | 61.57 | 61.78 | 0.29 | 1.34 |
| 1.57 | 62.00 | 61.50 | 61.75 | 0.29 | 1.34 |
| 1.62 | 62.06 | 61.64 | 61.85 | 0.30 | 1.34 |
| 1.67 | 61.96 | 61.49 | 61.72 | 0.29 | 1.34 |
| 1.72 | 62.14 | 61.77 | 61.95 | 0.30 | 1.34 |

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|------|-------|-------|-------|------|------|
| 1.77 | 62.11 | 61.66 | 61.88 | 0.30 | 1.34 |
| 1.82 | 61.88 | 61.66 | 61.77 | 0.30 | 1.34 |
| 1.87 | 62.09 | 61.65 | 61.87 | 0.29 | 1.34 |
| 1.92 | 61.93 | 61.63 | 61.78 | 0.30 | 1.34 |
| 1.97 | 62.00 | 61.74 | 61.87 | 0.30 | 1.34 |
| 2.02 | 61.74 | 61.41 | 61.57 | 0.29 | 1.34 |
| 2.07 | 62.03 | 61.60 | 61.81 | 0.30 | 1.34 |
| 2.12 | 62.04 | 61.71 | 61.88 | 0.30 | 1.34 |
| 2.17 | 62.02 | 61.75 | 61.88 | 0.30 | 1.34 |
| 2.21 | 61.98 | 61.63 | 61.81 | 0.29 | 1.34 |
| 2.26 | 61.95 | 61.72 | 61.84 | 0.30 | 1.34 |
| 2.31 | 61.87 | 61.60 | 61.73 | 0.29 | 1.34 |
| 2.36 | 61.90 | 61.61 | 61.76 | 0.29 | 1.34 |
| 2.41 | 62.00 | 61.69 | 61.84 | 0.30 | 1.34 |
| 2.46 | 61.98 | 61.60 | 61.79 | 0.29 | 1.34 |
| 2.51 | 61.77 | 61.30 | 61.54 | 0.29 | 1.34 |
| 2.56 | 62.04 | 61.77 | 61.90 | 0.30 | 1.34 |
| 2.61 | 61.94 | 61.61 | 61.77 | 0.30 | 1.34 |
| 2.66 | 61.93 | 61.64 | 61.79 | 0.30 | 1.34 |
| 2.71 | 61.92 | 61.53 | 61.73 | 0.29 | 1.34 |
| 2.76 | 62.10 | 61.83 | 61.97 | 0.30 | 1.34 |
| 2.80 | 61.96 | 61.50 | 61.73 | 0.29 | 1.34 |
| 2.85 | 62.04 | 61.52 | 61.78 | 0.29 | 1.34 |
| 2.90 | 62.07 | 61.69 | 61.88 | 0.30 | 1.34 |
| 2.95 | 61.85 | 61.55 | 61.70 | 0.29 | 1.34 |
| 3.00 | 61.85 | 61.46 | 61.66 | 0.29 | 1.34 |
| 3.05 | 62.08 | 61.67 | 61.87 | 0.30 | 1.34 |
| 3.10 | 61.93 | 61.47 | 61.70 | 0.29 | 1.34 |
| 3.15 | 62.07 | 61.62 | 61.84 | 0.30 | 1.34 |
| 3.20 | 62.08 | 61.65 | 61.86 | 0.30 | 1.34 |
| 3.25 | 62.04 | 61.59 | 61.82 | 0.30 | 1.34 |
| 3.30 | 61.87 | 61.46 | 61.66 | 0.29 | 1.34 |
| 3.35 | 62.02 | 61.57 | 61.79 | 0.29 | 1.34 |
| 3.40 | 62.08 | 61.67 | 61.87 | 0.30 | 1.34 |
| 3.44 | 62.00 | 61.63 | 61.82 | 0.30 | 1.34 |
| 3.49 | 61.99 | 61.63 | 61.81 | 0.30 | 1.34 |
| 3.54 | 61.92 | 61.53 | 61.72 | 0.29 | 1.34 |
| 3.59 | 61.96 | 61.46 | 61.71 | 0.29 | 1.34 |
| 3.64 | 62.01 | 61.58 | 61.80 | 0.29 | 1.34 |
| 3.69 | 62.00 | 61.50 | 61.75 | 0.29 | 1.34 |
| 3.74 | 61.96 | 61.59 | 61.78 | 0.29 | 1.34 |
| 3.79 | 62.09 | 61.69 | 61.89 | 0.30 | 1.34 |
| 3.84 | 62.04 | 61.69 | 61.86 | 0.30 | 1.34 |
| 3.89 | 62.05 | 61.56 | 61.81 | 0.29 | 1.34 |
| 3.94 | 62.01 | 61.60 | 61.81 | 0.29 | 1.34 |
| 3.99 | 62.00 | 61.57 | 61.78 | 0.30 | 1.34 |
| 4.03 | 62.17 | 61.67 | 61.92 | 0.30 | 1.34 |
| 4.08 | 61.95 | 61.56 | 61.75 | 0.29 | 1.34 |
| 4.13 | 61.84 | 61.50 | 61.67 | 0.29 | 1.34 |
| 4.18 | 62.01 | 61.61 | 61.81 | 0.29 | 1.34 |
| 4.23 | 61.86 | 61.49 | 61.67 | 0.29 | 1.34 |
| 4.28 | 61.98 | 61.60 | 61.79 | 0.29 | 1.34 |
| 4.33 | 62.03 | 61.56 | 61.79 | 0.30 | 1.34 |
| 4.38 | 62.03 | 61.61 | 61.82 | 0.30 | 1.34 |
| 4.43 | 61.91 | 61.47 | 61.69 | 0.29 | 1.34 |
| 4.48 | 61.89 | 61.54 | 61.71 | 0.29 | 1.34 |
| 4.53 | 61.91 | 61.61 | 61.76 | 0.30 | 1.34 |
| 4.58 | 62.12 | 61.70 | 61.91 | 0.30 | 1.34 |
| 4.63 | 61.88 | 61.58 | 61.73 | 0.29 | 1.34 |
| 4.67 | 61.94 | 61.57 | 61.75 | 0.29 | 1.34 |
| 4.72 | 62.08 | 61.54 | 61.81 | 0.29 | 1.34 |
| 4.77 | 62.06 | 61.66 | 61.86 | 0.29 | 1.34 |
| 4.82 | 61.94 | 61.63 | 61.79 | 0.30 | 1.34 |
| 4.87 | 62.21 | 61.67 | 61.94 | 0.29 | 1.34 |
| 4.92 | 61.97 | 61.51 | 61.74 | 0.29 | 1.34 |
| 4.97 | 62.10 | 61.71 | 61.90 | 0.30 | 1.34 |
| 5.02 | 61.87 | 61.48 | 61.67 | 0.29 | 1.34 |
| 5.07 | 61.92 | 61.57 | 61.75 | 0.30 | 1.34 |
| 5.12 | 61.97 | 61.53 | 61.75 | 0.29 | 1.34 |
| 5.17 | 61.98 | 61.58 | 61.78 | 0.30 | 1.34 |
| 5.22 | 61.99 | 61.60 | 61.80 | 0.29 | 1.34 |
| 5.26 | 61.99 | 61.57 | 61.78 | 0.29 | 1.34 |

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| 5.31 | 62.01 | 61.64 | 61.83 | 0.30 | 1.34 |
| 5.36 | 61.75 | 61.33 | 61.54 | 0.29 | 1.34 |
| 5.41 | 61.89 | 61.56 | 61.72 | 0.29 | 1.34 |
| 5.46 | 61.95 | 61.57 | 61.76 | 0.30 | 1.34 |
| 5.51 | 62.05 | 61.52 | 61.78 | 0.30 | 1.34 |
| 5.56 | 61.84 | 61.53 | 61.68 | 0.30 | 1.34 |
| 5.61 | 61.79 | 61.44 | 61.61 | 0.29 | 1.34 |
| 5.66 | 61.91 | 61.66 | 61.78 | 0.29 | 1.34 |
| 5.71 | 61.92 | 61.50 | 61.71 | 0.29 | 1.34 |
| 5.76 | 61.95 | 61.58 | 61.76 | 0.29 | 1.34 |
| 5.81 | 61.95 | 61.62 | 61.79 | 0.30 | 1.34 |
| 5.86 | 62.12 | 61.70 | 61.91 | 0.30 | 1.34 |
| 5.90 | 61.93 | 61.60 | 61.77 | 0.29 | 1.34 |
| 5.95 | 62.02 | 61.58 | 61.80 | 0.30 | 1.34 |
| 6.00 | 61.97 | 61.58 | 61.78 | 0.30 | 1.34 |
| 6.05 | 61.97 | 61.57 | 61.77 | 0.30 | 1.34 |
| 6.10 | 61.98 | 61.57 | 61.77 | 0.30 | 1.34 |
| 6.15 | 61.90 | 61.53 | 61.72 | 0.29 | 1.34 |
| 6.20 | 61.92 | 61.59 | 61.75 | 0.29 | 1.34 |
| 6.25 | 61.91 | 61.56 | 61.73 | 0.29 | 1.34 |
| 6.30 | 61.91 | 61.52 | 61.72 | 0.29 | 1.34 |
| 6.35 | 61.79 | 61.37 | 61.58 | 0.29 | 1.34 |
| 6.40 | 61.94 | 61.63 | 61.79 | 0.30 | 1.34 |
| 6.45 | 61.89 | 61.43 | 61.66 | 0.29 | 1.34 |
| 6.50 | 62.04 | 61.62 | 61.83 | 0.30 | 1.34 |
| 6.54 | 61.99 | 61.50 | 61.74 | 0.29 | 1.34 |
| 6.59 | 61.99 | 61.50 | 61.75 | 0.29 | 1.34 |
| 6.64 | 61.88 | 61.49 | 61.69 | 0.30 | 1.34 |
| 6.69 | 61.92 | 61.43 | 61.68 | 0.29 | 1.34 |
| 6.74 | 61.97 | 61.49 | 61.73 | 0.29 | 1.34 |
| 6.79 | 61.98 | 61.64 | 61.81 | 0.29 | 1.34 |
| 6.84 | 61.99 | 61.51 | 61.75 | 0.29 | 1.34 |
| 6.89 | 62.01 | 61.62 | 61.82 | 0.30 | 1.34 |
| 6.94 | 61.92 | 61.54 | 61.73 | 0.29 | 1.34 |
| 6.99 | 62.07 | 61.63 | 61.85 | 0.29 | 1.34 |
| 7.04 | 62.05 | 61.54 | 61.79 | 0.30 | 1.34 |
| 7.09 | 61.88 | 61.39 | 61.64 | 0.29 | 1.34 |
| 7.13 | 62.05 | 61.44 | 61.74 | 0.29 | 1.34 |
| 7.18 | 62.03 | 61.62 | 61.82 | 0.29 | 1.34 |
| 7.23 | 61.88 | 61.53 | 61.70 | 0.29 | 1.34 |
| 7.28 | 61.86 | 61.32 | 61.59 | 0.29 | 1.34 |
| 7.33 | 61.98 | 61.60 | 61.79 | 0.29 | 1.34 |
| 7.38 | 61.97 | 61.43 | 61.70 | 0.29 | 1.34 |
| 7.43 | 61.94 | 61.46 | 61.70 | 0.29 | 1.34 |
| 7.48 | 62.05 | 61.64 | 61.85 | 0.30 | 1.34 |
| 7.53 | 62.07 | 61.62 | 61.85 | 0.29 | 1.34 |
| 7.58 | 61.82 | 61.49 | 61.66 | 0.29 | 1.34 |
| 7.63 | 61.91 | 61.60 | 61.76 | 0.30 | 1.34 |
| 7.68 | 62.01 | 61.59 | 61.80 | 0.29 | 1.34 |
| 7.73 | 62.02 | 61.52 | 61.77 | 0.29 | 1.34 |
| 7.77 | 61.78 | 61.43 | 61.60 | 0.29 | 1.34 |
| 7.82 | 61.85 | 61.43 | 61.64 | 0.29 | 1.34 |
| 7.87 | 61.99 | 61.60 | 61.80 | 0.29 | 1.34 |
| 7.92 | 61.99 | 61.53 | 61.76 | 0.29 | 1.34 |
| 7.97 | 61.96 | 61.49 | 61.73 | 0.29 | 1.34 |
| 8.02 | 62.01 | 61.62 | 61.81 | 0.30 | 1.34 |
| 8.07 | 61.76 | 61.44 | 61.60 | 0.29 | 1.34 |
| 8.12 | 61.87 | 61.44 | 61.65 | 0.30 | 1.34 |
| 8.17 | 62.04 | 61.57 | 61.80 | 0.29 | 1.34 |
| 8.22 | 61.86 | 61.48 | 61.67 | 0.29 | 1.34 |
| 8.27 | 61.93 | 61.57 | 61.75 | 0.29 | 1.34 |
| 8.32 | 62.05 | 61.59 | 61.82 | 0.29 | 1.34 |
| 8.36 | 61.90 | 61.65 | 61.77 | 0.30 | 1.34 |
| 8.41 | 61.91 | 61.50 | 61.71 | 0.29 | 1.34 |
| 8.46 | 62.07 | 61.53 | 61.80 | 0.30 | 1.34 |
| 8.51 | 62.02 | 61.59 | 61.80 | 0.29 | 1.34 |
| 8.56 | 61.90 | 61.51 | 61.71 | 0.29 | 1.34 |
| 8.61 | 61.76 | 61.37 | 61.56 | 0.29 | 1.34 |
| 8.66 | 61.96 | 61.53 | 61.74 | 0.29 | 1.34 |
| 8.71 | 61.94 | 61.62 | 61.78 | 0.30 | 1.34 |
| 8.76 | 61.94 | 61.43 | 61.69 | 0.29 | 1.34 |
| 8.81 | 61.87 | 61.46 | 61.67 | 0.29 | 1.34 |

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|------|-------|-------|-------|------|------|
| 8.86 | 61.83 | 61.48 | 61.66 | 0.29 | 1.34 |
| 8.91 | 61.76 | 61.39 | 61.58 | 0.29 | 1.34 |
| 8.96 | 62.09 | 61.70 | 61.90 | 0.30 | 1.34 |
| 9.00 | 61.92 | 61.48 | 61.70 | 0.29 | 1.34 |
| 9.05 | 61.88 | 61.50 | 61.69 | 0.29 | 1.34 |
| 9.10 | 61.92 | 61.50 | 61.71 | 0.29 | 1.34 |
| 9.15 | 61.91 | 61.53 | 61.72 | 0.29 | 1.34 |
| 9.20 | 61.93 | 61.56 | 61.75 | 0.30 | 1.34 |
| 9.25 | 61.99 | 61.55 | 61.77 | 0.30 | 1.34 |
| 9.30 | 61.96 | 61.44 | 61.70 | 0.29 | 1.34 |
| 9.35 | 61.90 | 61.59 | 61.74 | 0.30 | 1.34 |
| 9.40 | 61.92 | 61.58 | 61.75 | 0.30 | 1.34 |
| 9.45 | 61.85 | 61.43 | 61.64 | 0.29 | 1.34 |
| 9.50 | 61.79 | 61.53 | 61.66 | 0.29 | 1.34 |
| 9.55 | 61.82 | 61.50 | 61.66 | 0.29 | 1.34 |
| 9.59 | 61.81 | 61.52 | 61.66 | 0.29 | 1.34 |
| 9.64 | 61.88 | 61.52 | 61.70 | 0.29 | 1.34 |
| 9.69 | 61.92 | 61.50 | 61.71 | 0.29 | 1.34 |
| 9.74 | 61.91 | 61.54 | 61.72 | 0.29 | 1.34 |
| 9.79 | 61.96 | 61.49 | 61.73 | 0.29 | 1.34 |
| 9.84 | 62.04 | 61.58 | 61.81 | 0.30 | 1.34 |
| 9.89 | 61.96 | 61.54 | 61.75 | 0.29 | 1.34 |
| 9.94 | 62.02 | 61.58 | 61.80 | 0.29 | 1.34 |
| 9.99 | 61.87 | 61.45 | 61.66 | 0.29 | 1.34 |