

Refraction of a Laser Beam in Various Mediums Due to Ultrasound Waves

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Submitted: April 19, 2022

Abstract

Gas-Coupled Laser Acoustic Devices (GCLADs) are systems used to detect sound using a laser [1]. If implemented in a bubble chamber (a type of experiment used for particle detection [2]), the sounds made by bubbles forming and popping could theoretically be detected with GCLADs [3]. If properly utilized, GCLADs could prove to be an improvement over traditional microphones in characterizing these bubbles. To set up our optoacoustic detector, we aligned a laser operating in the visible spectrum towards a bi-cell photodetector. We then observed the deflections in the laser beam caused by sound waves via the changing voltage measured by the oscilloscope. Sound waves are pressure waves which affect the density of the material through which they propagate and, thus, cause deflections in any light beam traveling through said medium [4]. As such, we collected voltage-time data using an oscilloscope with a sampling rate of 10000 samples per second as we were hoping to capture very high frequency sounds in the range of our 40kHz ultrasound transducer. Although sensitivity was our greatest issue, we showed that we could characterize the frequency of our system even with very small amplitudes. With ultrasonic emissions at 40kHz, we were able to characterize these oscillations in air at 42.7 ± 2.7 kHz and in water at 40.7 ± 2.4 kHz. This demonstrated that with increased sensitivity, this system could be an effective method to detect bubbles in bubble chambers. This experiment is inspired by previous research performed by John Caron (see references [5], [3], [6], [4]) where ultrasound waves were transmitted in air, water, and gelatin.

1. Introduction

In every introductory optics course, students are taught about the refraction of light as it passes between two mediums of different densities. Since light propagates as a wave, its direction can be influenced by the medium through which it travels [7]. A basic feature of longitudinal wave propagation is that the wave itself is a temporary increase in the density of the medium through which it travels [8]. An interesting question one can then pose, is how does the propagation of sound through any such medium affect the path of a light beam? Prior research, like that in [5], [4], and [3], has shown that the path of a light beam will be altered as sound waves are sent through the medium through which it is propagating.

Bubble chambers are detectors used in particle physics to detect tiny collisions between particles in a super heated fluid. When a particle collides, a tiny bubble forms and eventually pops. The challenge with this system is to detect the bubble using either a microphone, camera, or both [2].

Our experiment is inspired by the work of John Caron, who in [5] and [4], showed this refraction in air, water, and gelatin using ultrasound waves. Our experiment attempted to expand upon this research that has previously been conducted. By pointing a laser beam through a medium in which ultrasound waves are propagating, we expect the laser beam to be deflected. We recorded the extent to which the beam was diverted from its original course by the ultrasound pulse using a photodetector[1]. This data was then collected from an oscilloscope and briefly analysed by modeling sinusoidal curves. Despite the short time span of the experiment we were able to reproduce the deflection of a laser by various sound frequencies. In fact, if this experiment were to be extended to pressurized fluids such as freons, the system would be similar to a bubble chamber used in dark matter detection with this laser setup used instead of a microphone [2]. In theory, based on prior research in [6], this system could be more sensitive than any microphone in characterizing sounds or bubbles in the chamber. This could present as an extremely powerful system in dark matter detection. The goal of our experiment is to assess and analyze how realistic implementing this system in bubble chambers could be. This means, we will be trying to characterize sounds in fluids using our setup.

2. Theory

Sound waves are pressure waves that create regions of low and high density in a fluid. These regions of different densities follow a wave form relationship where the low-density part of the waves are the troughs and the high-density regions in the gas are the crests [9]. The density of a material greatly impacts the material's refractive index. At higher densities, light waves will travel slower and deflect while in lower densities, the opposite is true [10].

Light waves will refract when travelling through one medium to another according to Snell's Law:

$$n_1 \sin(\theta_1) = n_2 \sin(\theta_2) \quad (1)$$

Here n_1 and n_2 are the refractive indexes of the corresponding materials the waves are travelling through, while θ_1 and θ_2 are the angles of incidence into the material the light is travelling through [11].

Other researchers have successfully developed and published papers about optoacoustic systems detecting the deflection of laser beams due to ultrasound waves for multiple purposes [5]. Our goal is to test if an optoacoustic apparatus is still effective in liquids. We specifically want to determine if the sound of bubbles popping in compressed liquids such as freons could be detected. These bubbles make a sound difficult for modern microphones to pick up [2]. The sound waves produced by the bubbles popping should deflect the laser beam and by using an optoacoustic system we hope to detect this deflection.

An optoacoustic system works by using sound waves to deflect light waves. A laser is pointed

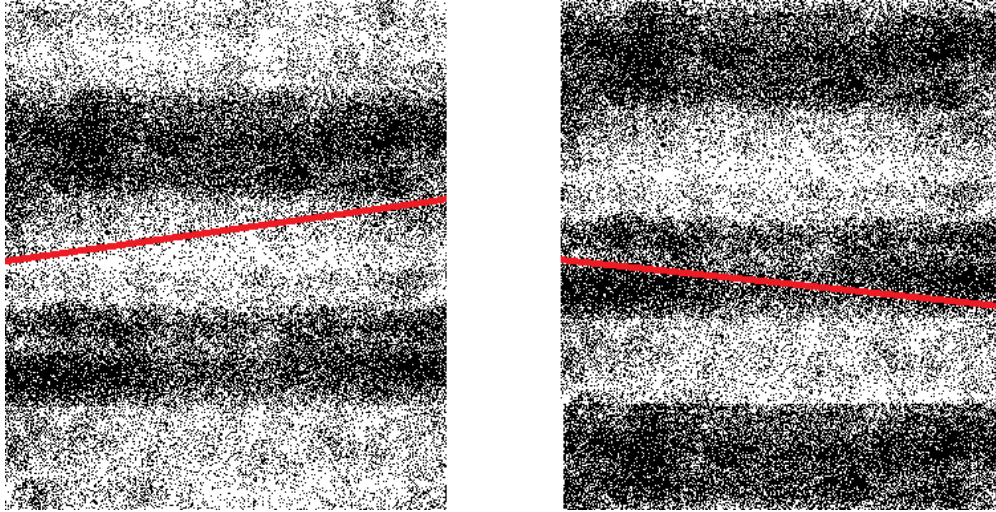


Figure 1: This figure shows how the beam will shift in low-density (lightly shaded) and high-density (darkly shaded) regions. This figure was produced by us using Microsoft Paint and is based on the theory described in [9]. In low density regions the beam will refract upwards, while in high density regions, it will refract downwards.

through a medium where sound waves will cause the laser beam to refract. Once this beam passes through the sound waves, the laser will travel through a lens to be focused on a quad cell photodetector. This photodetector relates data into voltage data which can be used to understanding how the laser beam is deflected [1].

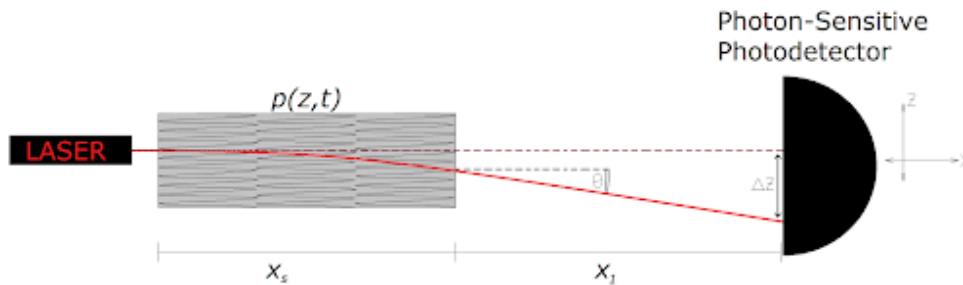


Figure 2: Simplified diagram of the path of the laser to the photocell, modeled off of figure 1 in [4], where $p(z,t)$ describes the pressure/sound waves they created to deflect the laser beam.

We are mostly concerned with being able to identify the frequency of the sound waves because the frequency can be used to determine and confirm what type of sounds are being detected. In this experiment, we will be using different ranges of sounds from an ultrasonic transducer as well as lower frequency sounds such as claps. Since the sound waves we are producing are sinusoidal in nature, we can expect the deflection in the laser beam to act the same way. This means our deflection can be modeled using a sine function:

$$z = A \sin(\omega t + \phi) + z_0 \quad (2)$$

Where ω is the frequency we want to determine, A is the amplitude, ϕ is the phase shift, and z_0 is the base amount of deflection - say from a slightly misaligned laser.

Given different mediums, wave intensities, and changes in the setup, we will get different voltages.

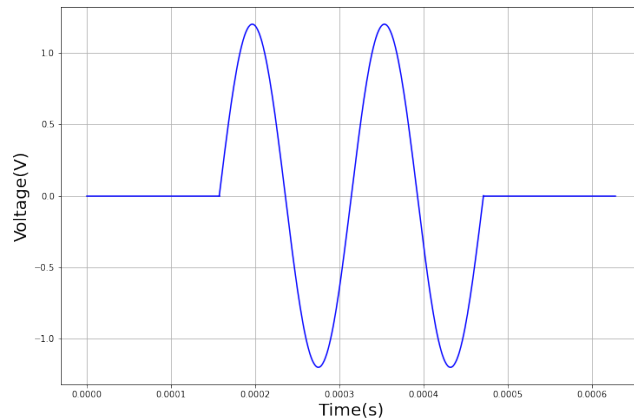


Figure 3: Theoretical concept of voltage wave we should be getting for a 40kHz pulse using the apparatus shown in figure 5. This theoretical pulse mirrors what was found in [6].

Nonetheless, Figure 3 presents a shape that would be expected for our voltages. This plot presents a theoretical perfect setup, where there is no background noise and the laser is perfectly aligned. In reality, we expect the light wave before the ultrasound pulse to be thicker due to background noise.

Even if it is not within the scope of this project, it is worth mentioning that analysis of the sensitivity of these setups have been investigated and modelled in [6]. Nonetheless, the sensitivity of this experiment is extremely important. Being able to distinguish microscopic changes in the laser beam will be a difficult challenge since noise will have a large impact. We expect multiple sources of noise in the data: vibrations in the optical table, ambient sound causing deflection, and ambient light directly hitting the photocell which will all produce variation in the data. Additionally, background light can affect the voltage in any of the cells of the photodetector. Vibrations can shift both the laser and the detector up and down which can seem like the type of signal we are looking for. Noise can shift the beam in the same fashion we are trying to produce with our ultrasound transducer. We attempted to limit these factors by collecting data in darkness and by adding damping material between some pieces of the setup and the optical table.

3. Apparatus

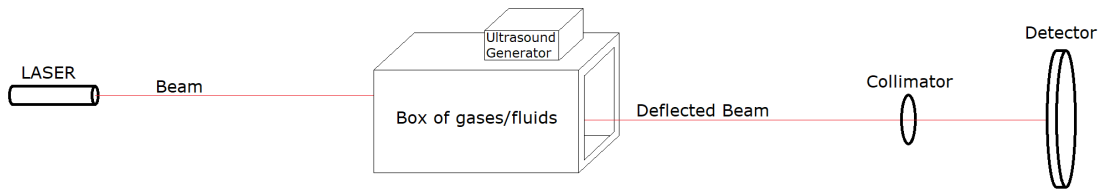


Figure 4: Diagram of expected apparatus. The setup was changed to have better alignment and allow for a more focused beam on the photodetector.

The plan depicted in Figure 4 was ultimately changed as both the size of our optical table differed from our initial plan and aligning the laser itself proved to be quite cumbersome. As such, we decided to alter our plan and designed a new apparatus as seen in Figure 5. Using mirrors enabled us to make better use of the table and allowed for precise laser alignment.

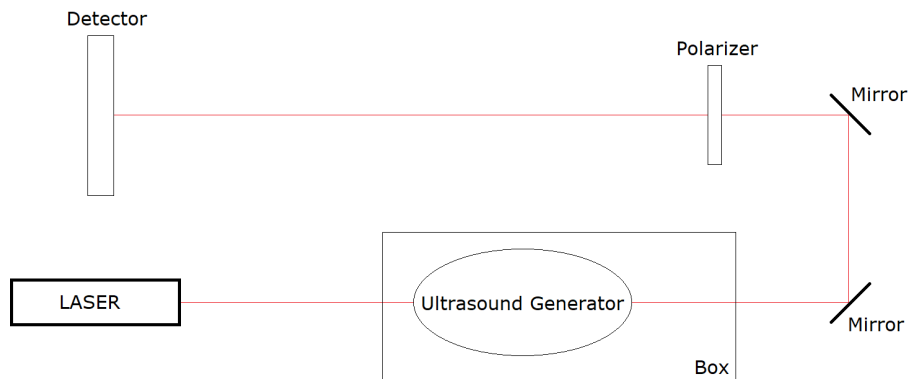


Figure 5: Diagram of apparatus used. Mirrors were added for more precise alignment. Ultrasound generator still rests above the box.

Our actual experimental apparatus (see Figure 5) used a laser with a 633 ± 3 nm wavelength and a power of 80mW ($^{+10\%}_{-0\%}$)[12]. To ensure that none of the individual parts were accidentally moved but instead that they remained properly aligned, our experimental apparatus was secured to an optical table to eliminate these associated errors. The laser was reflected past two mirrors positioned at approximately 45 degree angles to reverse the direction of the beam and allow for, as mentioned above, much more precise alignment. Between the laser module and the first mirror, the ultrasound generator was hung above the laser's path. Placing the transducer as close to the laser module as possible ensured a maximal deflected path length and, thus, a greater deflection distance at the photodetector.

In our trials which made use of the box, we placed it directly underneath the transducer. Glass windows on the sides of the box allowed the laser beam to pass through it. After being reflected through the pair of mirrors, the laser beam passed through a polarizer and collimator before it focused on the photodetector. The box was placed on a rubber mat which was on top of a piece of styrofoam placed on

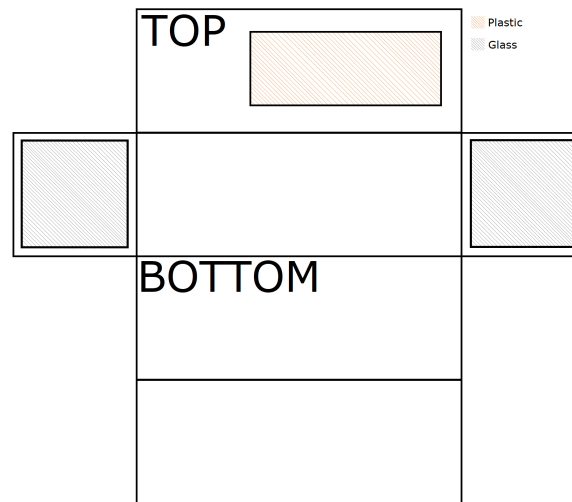


Figure 6: Net diagram of constructed box. Note that the top of the box is a removable lid.

the optical table (this styrofoam was used to dampen any vibrations caused by the ultrasound waves). The vibrations could cause the box to move, which would alter the path of the laser beam and impact our results, making the rubber mat and styrofoam necessary.

The collimator we used has a focal length of 50mm. Additionally, the frequency generator for the ultrasound consists of two parts: there is the amplifier, increasing the output voltage of the RedPitaya by a factor of 60, and there is the transducer with a resonant frequency of 40kHz placed above the box.

We used a Red Enhanced Quad Cell Silicon Photodiode [13] to measure the refraction of the laser beam due to the ultrasound waves produced in our medium. The laser is placed on a translation mount to allow us to move it up and down during alignment. Aligning the laser came with a unique set of challenges, as the safety glasses we were using prevented us from seeing the laser. We used phone cameras to see the beam and aligned our laser using this method. The mirror angles were adjustable via screws, and we aligned the laser using very minuscule adjustments on the first mirror, followed by the second. We wanted our laser, in its neutral state, to be pointing at the centre of our photodiode. Once we had properly aligned the laser, we began to take our measurements and data.

4. Data

Unlike the original intended setup, the ultrasound transducer was not fired in 1-2 peak pulses. Due to issues with programming the RedPitaya, we instead began transmitting ultrasounds before initiating data collection and ended the sound generation after the end of the collection period. To allow for comparison and analysis of the data, we then also took baseline data where the transducer was off.

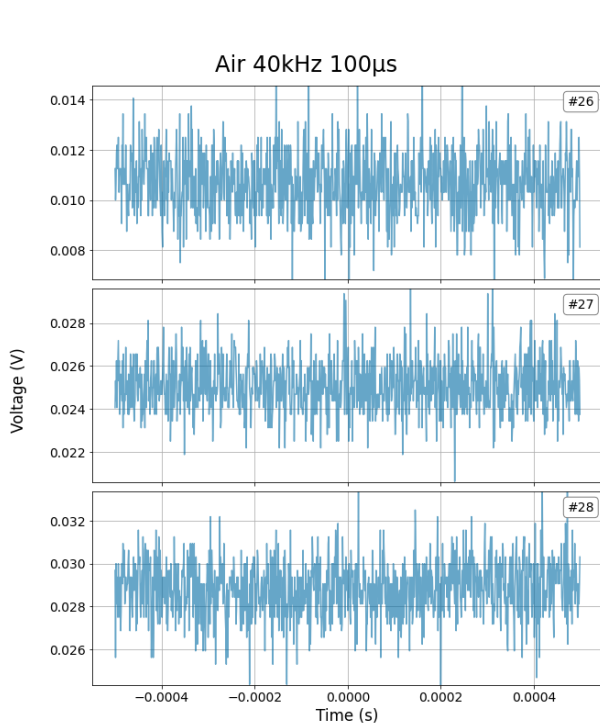


Figure 7: The raw voltage data with a 40kHz signal with $100\mu s$ time divisions in between each point. The medium is air.

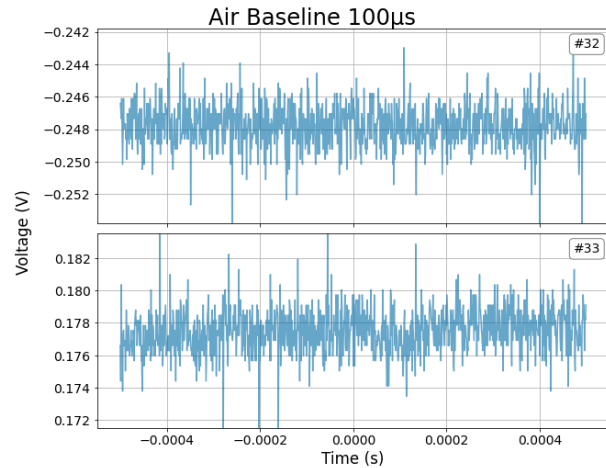


Figure 8: The raw voltage data with no signal with $100\mu s$ time divisions in between each point. The medium is air.

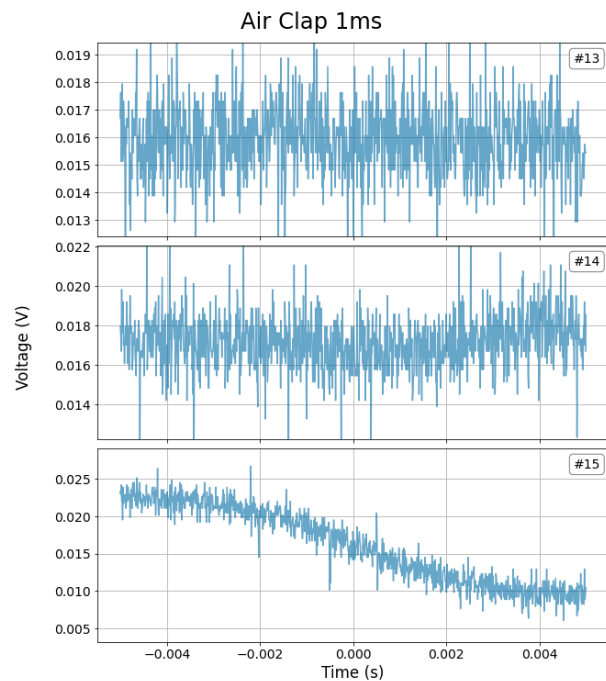


Figure 9: The raw voltage data with a clap with $1ms$ time divisions in between each point. The medium is air.

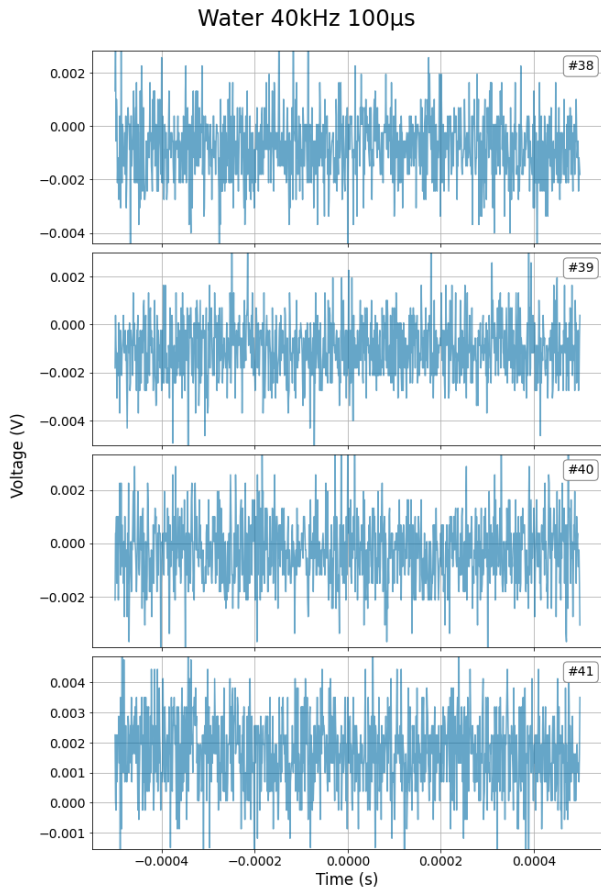


Figure 10: The raw voltage data with 40kHz signal with $100\mu s$ time divisions in between each point. The medium is water.

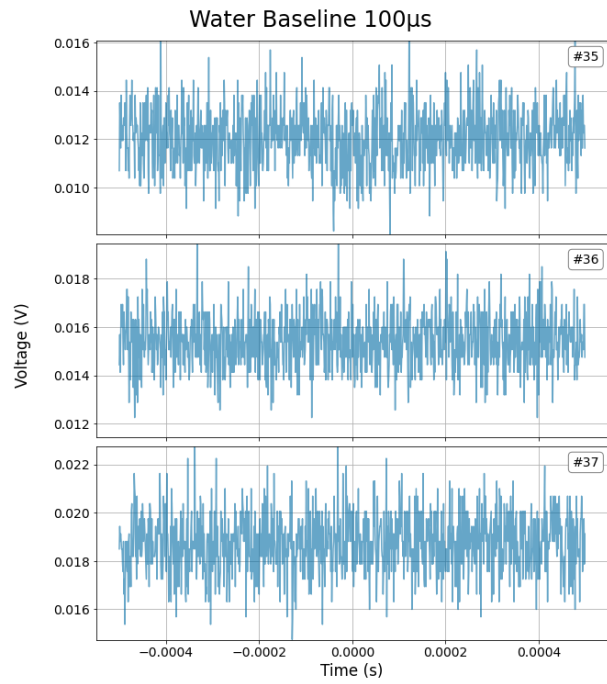


Figure 11: The raw voltage data with no signal with $100\mu s$ time divisions in between each point. The medium is water.

5. Analysis

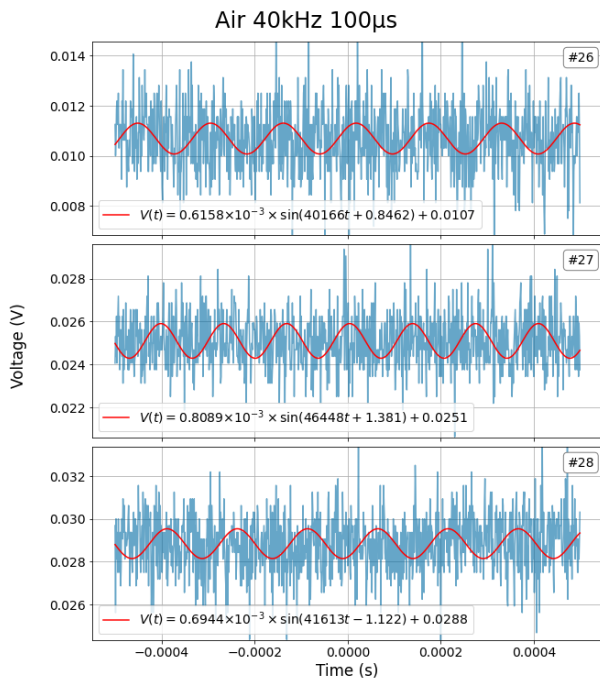


Figure 12: Fit for the 40kHz signal passing through the air system. Fit to the data in Figure 7.

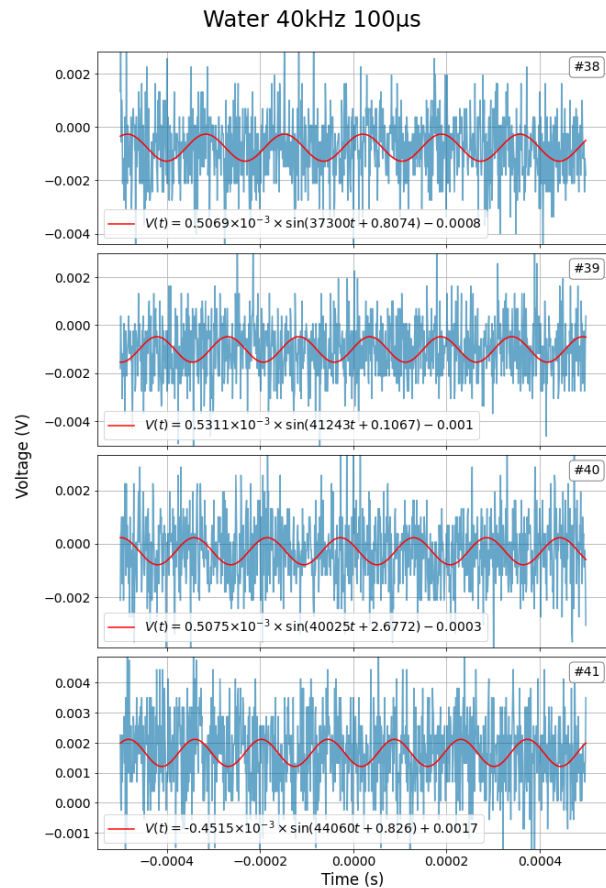


Figure 13: Fit for the 40kHz signal passing through the water system. Fit to the data in Figure 10.

Using numerical analysis we were able to fit our data with Equation 2. For the 40kHz signal in both water and air, we have the following values:

Air (Hz)	Water (Hz)
40166	37300
46448	41243
41613	40025
N/A	44060

Using the values above, we have that the frequency in air is 42.7 ± 2.7 kHz and the frequency in water is 40.7 ± 2.4 kHz. The expected frequency value is 40kHz and our measured frequency value falls within the expected uncertainty of the predicted value. We also determined that our amplitude deflections are around $0.5 - 1 \times 10^{-3}$ V.

There are multiple obvious sources of error present in our experiment. For example, any tap or collision we made with the optical table would be observed as a deflection by the laser beam and would be detected by the photodetector. This error is likely present in the data we collected. There were many objects that could produce vibrations in the optical table. This can include, but is not limited to, the

protoboard, the oscilloscope, the power generators, and the amplifier. The unwanted noise level we observed during our experiment was produced by these vibrations. Furthermore, the room in which we conducted our experiment possessed technology emitting light and the light from outside our optical room could not be completely eliminated, as there were holes around the door through which it could enter. Although the noise level coming from that light would be minimal, it would still contribute to the noise and could have created an offset that would be difficult to identify and cause errors in our data. Perhaps the biggest source of uncertainty was the difficulty in achieving precise laser alignment. The photodetector would reflect light into its frame which would scatter light back into the detector. This made it difficult to focus the beam in the center of the detector and inherently decreased sensitivity and increased uncertainty as the noise-level became greater.

6. Results and Discussion

We predicted that we would see deflections that followed the trajectory of a sine wave and, thus, our results concurred with our predictions. In Figure 12, we see small oscillations in the laser around a frequency of 40kHz, as we predicted. If we had had the opportunity to produce an isolated single pulse, as was done in [6], we would have data resembling their plot in Figure 4, which is what we used to predict our results. Additionally, Figure 12 shows that in all three trials, our data could be fit to a sine wave that would allow us a frequency near our desired frequency of 40kHz. However, the signal to noise ratio is incredibly small (it is less than 1). This means that although we recorded deflections with the frequency we were expecting, our signal is not clear enough compared to the noise we were picking up for us to be completely confident in our system's functionality. In [4], the signal was much more distinguishable with respect to the noise they observed. Thus we can conclude that our system simply is not sensitive enough to detect small audio signals.

Many different factors could have influenced our observed detections and the sensitivity. Claps, knocks, and snaps were effective at deflecting the beam, but it seems that sound waves from the ultrasound generator were not powerful enough to create large enough deflections in the beam's path. Compared to [6], our noise levels, in terms of voltage, are fairly similar. In fact, these noise levels are small oscillations, meaning theoretical predictions should still be clearly detected. However, our voltage readings were not as sensitive as [6]. [4] presented ultrasonic detections with deflections of 1V, while the deflection of our amplitude is not even 0.0001V. This demonstrates the fact that our setup was not sufficiently sensitive to the deflections we were producing.

Although our system seems to be limited, our results are still consistent with theoretical predictions. We expected to see deflections with the same frequency as the sound waves we produced to deflect the light beam. When an ultrasound was produced at 40kHz, a sine wave with a frequency close to 40kHz (i.e., within our range of uncertainty) was detectable in our data. This reassures us we did in fact have some form of detection, but compared to the noise, the deflections weren't distinguishable enough to reduce our large uncertainty.

Since sensitivity to changes in position is incredibly important when it comes to this experiment, our system was limited and, thus, so was our comparison to our theoretical models. These models do not account for the noise levels that are difficult to mitigate and, thus, accurately drawing comparisons between our results and the literature does not yield very precise results.

7. Conclusion

The goal of our experiment was to measure the deflections of a laser beam due to ultrasound waves. We wanted to measure these deflections in air first to confirm our apparatus was functional and

then extend our experiment to using different fluids for the medium through which the ultrasound waves propagate. Due to time constraints and the amount of time we took to get our system working properly, we were only able to use our optoacoustic apparatus for air and water.

Before we began collecting our data, we wanted to ensure that our system was running smoothly. To do this, we confirmed that our laser was properly aligned with the centre of the photodetector and that our ultrasound generator was properly producing ultrasound waves at the desired frequency. Then, by examining the data we collected for air, we were able to double check that our results matched our predictions and, hence, that our apparatus was functioning properly. We plotted the data for air and from figures 7 and 8, we concluded that the shape of the graphs matched what we expected from resources like [6]. We concluded that since we were getting graphs that resembled what we expected, our apparatus setup was adequate. We then began conducting our experiment with fluids. Using our box setup, we filled our container with water and realigned our laser to ensure it was hitting the photodetector at its centre. Figure 10 shows the results we obtained for the measured voltage, which also matches our predictions.

Upon analyzing our data further, we can see from Figures 12 and 13 that our system is not sensitive enough to adequately compare the numbers we found with the predictions from literature like [6] and [4]. Thus, our noise was too substantial to obtain the results aligned with our initial goals of the experiment. Without time constraints, we would have developed a more sensitive setup that would have allowed us to properly compare our results with these other papers.

Our initial motivation for conducting this experiment was to understand the implications this apparatus has on dark matter detection research or, namely, in bubble chambers. In order for our system to be used in this way, improvements would need to be made to our apparatus. Other researchers, like [6] and [4], have developed more sensitive systems that could be effectively applied to bubble chambers to detect small audio queues. Our system simply is not sensitive enough to detect the small sounds a bubble popping would make and, hence, the implications of our research are limited. However, with a longer time frame for our experiment, we believe this research could have important implications for the field of dark matter detection.

8. References

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9. Appendix

Raw Data

Table 1: Raw data at 40khz signal and 100 us time divisions.

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-5.00E-04	1.13E-02	2.41E-02	2.97E-02	1.31E-03	-1.81E-03	-2.13E-03	2.25E-03
-4.99E-04	1.00E-02	2.53E-02	2.56E-02	3.19E-03	3.75E-04	3.75E-04	6.25E-05
-4.98E-04	1.06E-02	2.44E-02	3.00E-02	-5.63E-04	-8.75E-04	3.75E-04	-2.50E-04
-4.97E-04	1.19E-02	2.63E-02	2.81E-02	1.00E-03	-1.50E-03	1.00E-03	2.25E-03
-4.96E-04	1.22E-02	2.41E-02	2.94E-02	3.75E-04	-3.06E-03	-1.50E-03	6.88E-04
-4.95E-04	1.13E-02	2.53E-02	2.84E-02	-2.13E-03	-1.19E-03	6.25E-05	1.31E-03
-4.94E-04	1.13E-02	2.63E-02	2.75E-02	-1.19E-03	-2.13E-03	1.00E-03	2.25E-03
-4.93E-04	1.25E-02	2.72E-02	3.00E-02	-1.81E-03	-2.13E-03	-2.13E-03	1.94E-03
-4.92E-04	1.03E-02	2.53E-02	2.81E-02	-2.75E-03	6.25E-05	6.25E-05	2.88E-03
-4.91E-04	1.03E-02	2.63E-02	2.91E-02	-1.81E-03	-2.13E-03	6.25E-05	1.31E-03
-4.90E-04	1.13E-02	2.38E-02	2.75E-02	3.75E-04	-3.69E-03	2.25E-03	2.56E-03
-4.89E-04	1.13E-02	2.47E-02	2.94E-02	-2.13E-03	-2.50E-04	6.25E-05	-1.81E-03
-4.88E-04	1.13E-02	2.56E-02	2.69E-02	-3.06E-03	-2.50E-04	-1.19E-03	3.50E-03
-4.87E-04	1.09E-02	2.47E-02	2.78E-02	3.19E-03	-1.50E-03	2.25E-03	1.63E-03
-4.86E-04	9.06E-03	2.53E-02	3.00E-02	-1.19E-03	-2.13E-03	-8.75E-04	-8.75E-04
-4.85E-04	1.22E-02	2.44E-02	3.00E-02	-2.13E-03	-1.19E-03	6.88E-04	7.25E-03
-4.84E-04	1.16E-02	2.63E-02	2.91E-02	6.25E-05	-8.75E-04	-5.63E-04	3.19E-03
-4.83E-04	1.34E-02	2.31E-02	3.09E-02	-2.50E-04	-5.63E-04	-2.50E-04	3.19E-03
-4.82E-04	1.06E-02	2.66E-02	3.00E-02	-1.50E-03	3.75E-04	-1.50E-03	1.00E-03
-4.81E-04	1.13E-02	2.38E-02	2.94E-02	-1.50E-03	-8.75E-04	6.25E-05	4.75E-03
-4.80E-04	1.06E-02	2.47E-02	3.06E-02	-1.19E-03	-1.19E-03	-2.75E-03	2.25E-03
-4.79E-04	1.13E-02	2.44E-02	2.81E-02	-2.50E-04	-5.63E-04	1.00E-03	6.88E-04
-4.78E-04	1.06E-02	2.47E-02	2.84E-02	-1.81E-03	-2.50E-04	-8.75E-04	1.00E-03
-4.77E-04	1.22E-02	2.69E-02	2.94E-02	3.75E-04	-1.50E-03	-5.63E-04	2.56E-03
-4.76E-04	1.06E-02	2.47E-02	2.88E-02	-3.06E-03	-8.75E-04	-5.63E-04	1.31E-03
-4.75E-04	8.75E-03	2.47E-02	2.88E-02	-2.13E-03	-2.75E-03	-2.50E-04	6.88E-04
-4.74E-04	1.06E-02	2.53E-02	2.91E-02	-5.63E-04	-4.31E-03	-2.75E-03	1.00E-03
-4.73E-04	1.00E-02	2.41E-02	2.91E-02	3.75E-04	-2.13E-03	3.75E-04	1.00E-03
-4.72E-04	9.69E-03	2.38E-02	3.00E-02	6.88E-04	-2.50E-04	-1.50E-03	2.88E-03
-4.71E-04	9.38E-03	2.56E-02	3.06E-02	6.25E-05	-1.19E-03	2.25E-03	2.56E-03
-4.70E-04	1.06E-02	2.38E-02	2.97E-02	6.25E-05	-8.75E-04	-3.69E-03	1.00E-03
-4.69E-04	1.06E-02	2.41E-02	2.81E-02	-8.75E-04	6.25E-05	-1.50E-03	2.25E-03
-4.68E-04	1.00E-02	2.50E-02	2.69E-02	6.25E-05	-2.75E-03	-8.75E-04	1.94E-03
-4.67E-04	1.22E-02	2.66E-02	2.94E-02	-8.69E-03	-2.44E-03	-2.50E-04	2.56E-03
-4.66E-04	1.16E-02	2.41E-02	2.84E-02	3.75E-04	-2.50E-04	6.25E-05	1.31E-03
-4.65E-04	1.19E-02	2.50E-02	2.94E-02	3.75E-04	-5.63E-04	-1.81E-03	3.50E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-4.64E-04	1.19E-02	2.59E-02	2.81E-02	-1.50E-03	-8.75E-04	-2.50E-04	6.88E-04
-4.63E-04	9.69E-03	2.53E-02	2.75E-02	-5.63E-04	-8.75E-04	-2.50E-04	2.25E-03
-4.62E-04	1.06E-02	2.41E-02	2.84E-02	-8.75E-04	-2.13E-03	6.88E-04	1.63E-03
-4.61E-04	1.41E-02	2.66E-02	2.97E-02	-2.50E-04	1.31E-03	1.94E-03	2.56E-03
-4.60E-04	1.03E-02	2.44E-02	3.03E-02	1.31E-03	-8.75E-04	6.25E-05	2.56E-03
-4.59E-04	9.69E-03	2.34E-02	2.88E-02	-8.75E-04	6.25E-05	6.25E-05	2.88E-03
-4.58E-04	9.38E-03	2.41E-02	2.91E-02	-2.13E-03	-2.50E-04	2.88E-03	1.63E-03
-4.57E-04	1.13E-02	2.44E-02	3.00E-02	-5.63E-04	-1.50E-03	6.25E-05	3.19E-03
-4.56E-04	1.03E-02	2.66E-02	3.00E-02	6.88E-04	-1.19E-03	-2.50E-04	2.25E-03
-4.55E-04	1.09E-02	2.56E-02	2.69E-02	-2.13E-03	-8.75E-04	-8.75E-04	1.31E-03
-4.54E-04	1.16E-02	2.53E-02	2.97E-02	1.63E-03	-2.75E-03	-1.81E-03	3.50E-03
-4.53E-04	9.06E-03	2.66E-02	2.72E-02	-1.19E-03	-2.50E-04	-8.75E-04	1.94E-03
-4.52E-04	1.06E-02	2.47E-02	2.81E-02	-2.13E-03	-2.50E-04	3.75E-04	1.31E-03
-4.51E-04	9.69E-03	2.44E-02	2.94E-02	6.25E-05	3.75E-04	1.94E-03	-2.50E-04
-4.50E-04	1.09E-02	2.47E-02	3.16E-02	-2.50E-04	-3.69E-03	3.75E-04	2.56E-03
-4.49E-04	1.09E-02	2.56E-02	3.00E-02	-3.69E-03	-8.75E-04	-8.75E-04	-5.63E-04
-4.48E-04	1.31E-02	2.53E-02	3.00E-02	-1.50E-03	-5.63E-04	-1.19E-03	6.88E-04
-4.47E-04	1.16E-02	2.50E-02	3.03E-02	-3.06E-03	-2.75E-03	-5.63E-04	1.63E-03
-4.46E-04	1.00E-02	2.59E-02	2.81E-02	1.31E-03	-2.50E-04	1.00E-03	2.88E-03
-4.45E-04	9.38E-03	2.50E-02	2.75E-02	-2.75E-03	-8.75E-04	1.00E-03	2.25E-03
-4.44E-04	1.13E-02	2.31E-02	2.91E-02	6.25E-05	-2.44E-03	-2.50E-04	1.94E-03
-4.43E-04	1.00E-02	2.56E-02	2.91E-02	2.25E-03	-5.63E-04	1.00E-03	3.50E-03
-4.42E-04	1.28E-02	2.34E-02	2.97E-02	1.00E-03	-2.50E-04	-2.44E-03	3.50E-03
-4.41E-04	1.16E-02	2.38E-02	2.81E-02	-2.44E-03	-1.19E-03	1.00E-03	-2.50E-04
-4.40E-04	1.16E-02	2.38E-02	3.13E-02	-8.75E-04	-5.63E-04	1.31E-03	3.75E-04
-4.39E-04	1.09E-02	2.47E-02	2.88E-02	6.88E-04	6.88E-04	-1.81E-03	2.25E-03
-4.38E-04	1.06E-02	2.50E-02	2.75E-02	-2.13E-03	1.00E-03	3.75E-04	6.88E-04
-4.37E-04	1.13E-02	2.56E-02	2.91E-02	-2.75E-03	-8.75E-04	-2.13E-03	3.50E-03
-4.36E-04	1.34E-02	2.31E-02	3.06E-02	-2.75E-03	-2.75E-03	-3.06E-03	-2.50E-04
-4.35E-04	1.16E-02	2.63E-02	3.09E-02	-2.44E-03	-2.50E-04	-1.81E-03	-2.50E-04
-4.34E-04	1.16E-02	2.44E-02	3.06E-02	-1.81E-03	3.75E-04	6.25E-05	3.50E-03
-4.33E-04	1.25E-02	2.41E-02	2.75E-02	-5.63E-04	-2.75E-03	-8.75E-04	3.75E-04
-4.32E-04	1.13E-02	2.66E-02	3.06E-02	-1.19E-03	-1.19E-03	-2.13E-03	2.25E-03
-4.31E-04	1.13E-02	2.72E-02	2.94E-02	-2.44E-03	-1.81E-03	-1.19E-03	3.19E-03
-4.30E-04	1.13E-02	2.53E-02	2.81E-02	-8.75E-04	-2.44E-03	2.25E-03	3.75E-04
-4.29E-04	9.38E-03	2.81E-02	3.06E-02	-2.50E-04	-8.75E-04	1.63E-03	2.88E-03
-4.28E-04	9.38E-03	2.44E-02	2.69E-02	-2.50E-04	1.31E-03	6.25E-05	3.19E-03
-4.27E-04	1.16E-02	2.50E-02	3.00E-02	-1.19E-03	-1.81E-03	-5.63E-04	3.75E-04
-4.26E-04	1.16E-02	2.50E-02	2.97E-02	-2.50E-04	-2.13E-03	-1.81E-03	6.88E-04
-4.25E-04	1.09E-02	2.38E-02	2.97E-02	1.63E-03	3.75E-04	-8.75E-04	6.88E-04

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-4.24E-04	1.00E-02	2.53E-02	3.03E-02	-5.63E-04	6.88E-04	-5.63E-04	2.88E-03
-4.23E-04	1.22E-02	2.56E-02	2.84E-02	-2.50E-04	-8.75E-04	-1.81E-03	1.00E-03
-4.22E-04	1.13E-02	2.63E-02	2.56E-02	-1.50E-03	-2.50E-04	-2.50E-04	4.44E-03
-4.21E-04	1.16E-02	2.47E-02	2.78E-02	-1.81E-03	-1.19E-03	-2.75E-03	1.94E-03
-4.20E-04	9.38E-03	2.41E-02	2.81E-02	-2.44E-03	-5.63E-04	-5.63E-04	2.56E-03
-4.19E-04	1.19E-02	2.50E-02	2.94E-02	1.00E-03	-1.19E-03	-1.19E-03	2.56E-03
-4.18E-04	1.13E-02	2.50E-02	2.56E-02	-8.75E-04	-2.75E-03	6.88E-04	6.88E-04
-4.17E-04	9.69E-03	2.63E-02	2.72E-02	1.31E-03	-1.81E-03	-1.50E-03	-2.50E-04
-4.16E-04	1.25E-02	2.63E-02	3.06E-02	-2.50E-04	-1.50E-03	3.75E-04	6.88E-04
-4.15E-04	1.09E-02	2.38E-02	3.00E-02	1.31E-03	1.00E-03	3.75E-04	4.44E-03
-4.14E-04	1.06E-02	2.41E-02	2.91E-02	-1.50E-03	-2.13E-03	1.31E-03	1.00E-03
-4.13E-04	9.69E-03	2.53E-02	2.88E-02	-5.63E-04	-2.44E-03	6.88E-04	1.31E-03
-4.12E-04	9.69E-03	2.56E-02	3.16E-02	6.25E-05	-3.38E-03	1.00E-03	1.94E-03
-4.11E-04	1.19E-02	2.38E-02	2.78E-02	-5.63E-04	-3.06E-03	-5.63E-04	2.56E-03
-4.10E-04	1.25E-02	2.66E-02	3.03E-02	-2.44E-03	3.75E-04	-1.81E-03	6.88E-04
-4.09E-04	1.00E-02	2.69E-02	2.78E-02	-2.44E-03	-5.63E-04	-5.63E-04	4.44E-03
-4.08E-04	1.16E-02	2.47E-02	2.72E-02	1.00E-03	-2.44E-03	3.75E-04	3.75E-04
-4.07E-04	1.19E-02	2.69E-02	2.91E-02	-2.44E-03	-2.50E-04	-1.19E-03	2.88E-03
-4.06E-04	1.28E-02	2.59E-02	3.13E-02	-1.19E-03	-8.75E-04	6.88E-04	1.31E-03
-4.05E-04	1.16E-02	2.44E-02	3.06E-02	-2.50E-04	-1.50E-03	3.75E-04	3.81E-03
-4.04E-04	1.06E-02	2.47E-02	2.72E-02	1.00E-03	-8.75E-04	3.75E-04	2.25E-03
-4.03E-04	1.00E-02	2.47E-02	3.06E-02	-2.50E-04	-1.81E-03	3.75E-04	1.63E-03
-4.02E-04	9.38E-03	2.53E-02	2.88E-02	-8.75E-04	-2.50E-04	-4.00E-03	-2.50E-04
-4.01E-04	1.22E-02	2.47E-02	2.97E-02	-1.81E-03	-1.19E-03	-1.50E-03	1.00E-03
-4.00E-04	1.09E-02	2.53E-02	2.84E-02	2.56E-03	-2.75E-03	-8.75E-04	1.00E-03
-3.99E-04	8.75E-03	2.47E-02	2.75E-02	-2.13E-03	-2.50E-04	6.25E-05	6.88E-04
-3.98E-04	8.13E-03	2.56E-02	2.88E-02	3.75E-04	-2.44E-03	-2.50E-04	1.00E-03
-3.97E-04	1.03E-02	2.63E-02	2.94E-02	-2.13E-03	-2.13E-03	3.75E-04	4.13E-03
-3.96E-04	1.00E-02	2.78E-02	2.84E-02	-8.75E-04	1.63E-03	-5.63E-04	1.63E-03
-3.95E-04	1.16E-02	2.53E-02	2.91E-02	-2.75E-03	-2.44E-03	-1.19E-03	1.31E-03
-3.94E-04	9.38E-03	2.47E-02	2.94E-02	-1.50E-03	-1.50E-03	1.94E-03	6.88E-04
-3.93E-04	1.13E-02	2.47E-02	2.81E-02	6.25E-05	-8.75E-04	3.75E-04	3.19E-03
-3.92E-04	1.09E-02	2.38E-02	2.91E-02	-1.19E-03	1.63E-03	6.25E-05	1.94E-03
-3.91E-04	1.16E-02	2.47E-02	2.84E-02	-2.50E-04	-1.81E-03	3.75E-04	3.75E-04
-3.90E-04	1.28E-02	2.56E-02	3.03E-02	-2.50E-04	-1.19E-03	3.75E-04	3.75E-04
-3.89E-04	1.00E-02	2.38E-02	2.72E-02	-2.75E-03	-2.44E-03	3.75E-04	1.94E-03
-3.88E-04	1.16E-02	2.47E-02	2.97E-02	-2.44E-03	-1.81E-03	-5.63E-04	2.25E-03
-3.87E-04	9.06E-03	2.53E-02	2.69E-02	-8.75E-04	-2.13E-03	1.31E-03	1.94E-03
-3.86E-04	1.13E-02	2.34E-02	2.78E-02	-2.13E-03	-2.44E-03	-1.19E-03	6.88E-04
-3.85E-04	1.03E-02	2.59E-02	2.94E-02	6.25E-05	-8.75E-04	1.00E-03	1.63E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-3.84E-04	1.19E-02	2.69E-02	2.97E-02	1.31E-03	-1.19E-03	-3.38E-03	3.19E-03
-3.83E-04	1.16E-02	2.56E-02	2.97E-02	-8.75E-04	-3.06E-03	-3.38E-03	1.63E-03
-3.82E-04	1.16E-02	2.56E-02	2.88E-02	-8.75E-04	6.88E-04	6.88E-04	1.94E-03
-3.81E-04	1.16E-02	2.25E-02	2.84E-02	-2.50E-04	-1.19E-03	-5.63E-04	-1.50E-03
-3.80E-04	1.16E-02	2.38E-02	3.00E-02	-1.19E-03	-2.50E-04	-8.75E-04	1.63E-03
-3.79E-04	1.00E-02	2.69E-02	2.78E-02	-2.50E-04	-1.81E-03	6.25E-05	3.50E-03
-3.78E-04	1.09E-02	2.69E-02	2.88E-02	-2.50E-04	3.75E-04	-2.50E-04	6.88E-04
-3.77E-04	1.13E-02	2.34E-02	2.78E-02	-5.63E-04	6.25E-05	-2.50E-04	3.75E-04
-3.76E-04	1.03E-02	2.44E-02	2.75E-02	-5.63E-04	-4.94E-03	2.56E-03	2.25E-03
-3.75E-04	9.69E-03	2.63E-02	2.84E-02	-1.50E-03	-1.81E-03	-8.75E-04	3.19E-03
-3.74E-04	8.75E-03	2.63E-02	2.88E-02	-2.13E-03	-1.19E-03	-1.81E-03	2.56E-03
-3.73E-04	9.69E-03	2.41E-02	3.13E-02	3.75E-04	-8.75E-04	1.00E-03	3.50E-03
-3.72E-04	1.03E-02	2.47E-02	2.97E-02	-1.19E-03	-2.44E-03	3.75E-04	2.56E-03
-3.71E-04	9.69E-03	2.50E-02	2.88E-02	-2.75E-03	-1.19E-03	-2.13E-03	1.94E-03
-3.70E-04	1.13E-02	2.66E-02	2.69E-02	-1.19E-03	-2.44E-03	2.88E-03	2.56E-03
-3.69E-04	1.19E-02	2.75E-02	3.00E-02	-5.63E-04	1.31E-03	-1.19E-03	6.88E-04
-3.68E-04	1.28E-02	2.66E-02	2.81E-02	-8.75E-04	-1.50E-03	-2.50E-04	-5.63E-04
-3.67E-04	1.19E-02	2.34E-02	2.78E-02	-5.63E-04	-2.13E-03	-5.63E-04	3.19E-03
-3.66E-04	1.00E-02	2.44E-02	2.88E-02	-5.63E-04	-5.63E-04	6.88E-04	-8.75E-04
-3.65E-04	8.44E-03	2.47E-02	3.00E-02	3.75E-04	-1.81E-03	1.31E-03	2.25E-03
-3.64E-04	9.69E-03	2.44E-02	3.00E-02	-1.19E-03	6.25E-05	6.25E-05	3.19E-03
-3.63E-04	9.38E-03	2.53E-02	2.72E-02	-2.50E-04	-1.50E-03	-5.63E-04	2.88E-03
-3.62E-04	1.03E-02	2.44E-02	2.88E-02	-2.13E-03	-2.50E-04	-8.75E-04	-8.75E-04
-3.61E-04	1.34E-02	2.56E-02	2.84E-02	-5.63E-04	-2.13E-03	1.00E-03	3.75E-04
-3.60E-04	7.50E-03	2.38E-02	2.75E-02	-8.75E-04	-2.13E-03	-8.75E-04	1.94E-03
-3.59E-04	9.38E-03	2.50E-02	2.84E-02	-2.13E-03	-1.81E-03	-1.50E-03	1.63E-03
-3.58E-04	9.38E-03	2.53E-02	2.75E-02	-1.19E-03	6.88E-04	-1.19E-03	6.25E-05
-3.57E-04	1.00E-02	2.78E-02	2.88E-02	-5.63E-04	-8.75E-04	1.31E-03	3.19E-03
-3.56E-04	1.03E-02	2.59E-02	2.97E-02	-2.50E-04	-3.06E-03	-5.63E-04	3.81E-03
-3.55E-04	1.03E-02	2.53E-02	2.94E-02	-1.50E-03	1.31E-03	6.25E-05	3.75E-04
-3.54E-04	1.25E-02	2.69E-02	2.97E-02	-2.13E-03	-2.13E-03	6.88E-04	2.88E-03
-3.53E-04	8.13E-03	2.44E-02	3.00E-02	3.75E-04	3.75E-04	3.75E-04	6.88E-04
-3.52E-04	1.16E-02	2.59E-02	3.09E-02	-8.75E-04	-5.63E-04	-2.50E-04	2.88E-03
-3.51E-04	1.06E-02	2.19E-02	2.66E-02	-2.50E-04	-5.63E-04	1.63E-03	3.19E-03
-3.50E-04	1.13E-02	2.53E-02	2.94E-02	-1.81E-03	-2.75E-03	-1.19E-03	1.00E-03
-3.49E-04	1.25E-02	2.63E-02	2.78E-02	1.31E-03	-2.50E-04	-4.00E-03	1.63E-03
-3.48E-04	1.19E-02	2.44E-02	2.81E-02	2.25E-03	-5.63E-04	6.25E-05	2.56E-03
-3.47E-04	8.44E-03	2.63E-02	2.84E-02	-2.13E-03	-2.50E-04	3.75E-04	3.19E-03
-3.46E-04	1.16E-02	2.69E-02	2.81E-02	-2.50E-04	-1.50E-03	-1.19E-03	-5.63E-04
-3.45E-04	1.09E-02	2.50E-02	2.91E-02	-5.63E-04	6.88E-04	3.75E-04	1.63E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-3.44E-04	1.16E-02	2.41E-02	3.06E-02	6.88E-04	-2.50E-04	1.94E-03	2.25E-03
-3.43E-04	1.00E-02	2.47E-02	2.84E-02	-8.75E-04	-6.81E-03	-1.81E-03	5.06E-03
-3.42E-04	1.34E-02	2.53E-02	3.03E-02	6.25E-05	-2.44E-03	-1.81E-03	3.75E-04
-3.41E-04	1.16E-02	2.66E-02	2.69E-02	-3.69E-03	-1.19E-03	3.75E-04	2.25E-03
-3.40E-04	1.09E-02	2.38E-02	2.94E-02	-2.13E-03	3.75E-04	-2.50E-04	4.13E-03
-3.39E-04	1.13E-02	2.69E-02	2.97E-02	6.25E-05	-5.63E-04	-2.50E-04	1.63E-03
-3.38E-04	1.16E-02	2.44E-02	3.09E-02	-3.06E-03	6.88E-04	-1.50E-03	1.63E-03
-3.37E-04	9.69E-03	2.50E-02	2.94E-02	-4.00E-03	6.88E-04	6.25E-05	4.75E-03
-3.36E-04	1.38E-02	2.56E-02	2.97E-02	-1.81E-03	-8.75E-04	1.63E-03	2.56E-03
-3.35E-04	1.09E-02	2.59E-02	3.03E-02	3.75E-04	-2.13E-03	2.25E-03	1.94E-03
-3.34E-04	1.28E-02	2.47E-02	3.09E-02	-3.06E-03	-5.63E-04	6.25E-05	2.25E-03
-3.33E-04	9.69E-03	2.44E-02	2.94E-02	6.88E-04	-1.50E-03	6.25E-05	1.00E-03
-3.32E-04	1.06E-02	2.31E-02	2.75E-02	1.31E-03	-2.44E-03	-1.81E-03	3.19E-03
-3.31E-04	1.09E-02	2.47E-02	3.03E-02	-2.50E-04	-1.81E-03	-1.19E-03	2.88E-03
-3.30E-04	9.69E-03	2.28E-02	3.09E-02	-1.19E-03	6.25E-05	-2.13E-03	3.50E-03
-3.29E-04	1.09E-02	2.44E-02	2.81E-02	-2.50E-04	-1.19E-03	1.31E-03	3.50E-03
-3.28E-04	9.38E-03	2.44E-02	2.97E-02	-1.81E-03	6.25E-05	2.25E-03	2.56E-03
-3.27E-04	1.13E-02	2.63E-02	2.59E-02	6.25E-05	-3.69E-03	1.00E-03	3.81E-03
-3.26E-04	9.06E-03	2.41E-02	3.03E-02	1.31E-03	6.88E-04	-2.50E-04	2.56E-03
-3.25E-04	9.69E-03	2.63E-02	2.94E-02	-8.75E-04	-5.63E-04	-2.50E-04	2.88E-03
-3.24E-04	9.69E-03	2.53E-02	2.72E-02	-1.50E-03	1.00E-03	1.00E-03	1.31E-03
-3.23E-04	8.75E-03	2.66E-02	2.63E-02	1.31E-03	3.75E-04	-2.50E-04	1.94E-03
-3.22E-04	9.38E-03	2.41E-02	2.94E-02	3.75E-04	-1.81E-03	-5.63E-04	6.25E-05
-3.21E-04	1.28E-02	2.50E-02	2.72E-02	-1.50E-03	6.25E-05	-2.50E-04	1.94E-03
-3.20E-04	1.03E-02	2.47E-02	2.75E-02	-1.50E-03	-3.38E-03	-8.75E-04	6.25E-05
-3.19E-04	1.09E-02	2.47E-02	3.00E-02	6.88E-04	-2.44E-03	1.63E-03	3.75E-04
-3.18E-04	9.38E-03	2.44E-02	2.88E-02	-5.63E-04	-8.75E-04	6.25E-05	1.63E-03
-3.17E-04	1.22E-02	2.66E-02	2.91E-02	-1.19E-03	1.00E-03	6.88E-04	1.94E-03
-3.16E-04	8.44E-03	2.81E-02	2.72E-02	6.25E-05	-2.44E-03	-5.63E-04	1.94E-03
-3.15E-04	1.25E-02	2.47E-02	2.91E-02	-2.50E-04	-2.50E-04	6.25E-05	1.63E-03
-3.14E-04	1.13E-02	2.63E-02	2.69E-02	6.25E-05	-2.13E-03	-8.75E-04	3.75E-04
-3.13E-04	1.06E-02	2.66E-02	2.91E-02	2.25E-03	-5.63E-04	-1.50E-03	6.88E-04
-3.12E-04	1.13E-02	2.72E-02	2.84E-02	-1.81E-03	-5.63E-04	-5.63E-04	2.25E-03
-3.11E-04	1.19E-02	2.34E-02	2.59E-02	-1.19E-03	3.75E-04	-2.50E-04	1.31E-03
-3.10E-04	9.69E-03	2.47E-02	2.72E-02	3.75E-04	-5.63E-04	-1.81E-03	-2.13E-03
-3.09E-04	1.06E-02	2.69E-02	2.91E-02	-3.38E-03	-2.50E-04	-1.81E-03	2.25E-03
-3.08E-04	1.19E-02	2.50E-02	2.81E-02	-3.06E-03	-2.50E-04	-1.50E-03	2.25E-03
-3.07E-04	1.06E-02	2.53E-02	2.69E-02	-8.75E-04	-4.63E-03	-1.50E-03	2.56E-03
-3.06E-04	1.06E-02	2.47E-02	2.59E-02	3.75E-04	-1.50E-03	-8.75E-04	1.63E-03
-3.05E-04	8.75E-03	2.72E-02	2.78E-02	-5.63E-04	-5.63E-04	-1.50E-03	3.50E-03

Continued on next page

Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-3.04E-04	1.22E-02	2.72E-02	2.91E-02	6.25E-05	6.88E-04	3.75E-04	1.63E-03
-3.03E-04	9.69E-03	2.47E-02	2.88E-02	6.25E-05	-3.06E-03	6.88E-04	6.25E-05
-3.02E-04	1.03E-02	2.44E-02	3.00E-02	6.25E-05	-2.13E-03	-5.63E-04	2.88E-03
-3.01E-04	1.16E-02	2.53E-02	2.94E-02	-8.75E-04	-3.69E-03	-5.63E-04	4.44E-03
-3.00E-04	1.00E-02	2.66E-02	2.66E-02	6.25E-05	-3.38E-03	-1.19E-03	1.31E-03
-2.99E-04	9.69E-03	2.66E-02	2.91E-02	-1.19E-03	6.25E-05	1.63E-03	2.88E-03
-2.98E-04	9.69E-03	2.38E-02	3.06E-02	-1.81E-03	-2.50E-04	-8.75E-04	3.19E-03
-2.97E-04	9.38E-03	2.50E-02	2.97E-02	-5.63E-04	1.63E-03	-8.75E-04	-1.50E-03
-2.96E-04	8.44E-03	2.50E-02	2.72E-02	-2.50E-04	-1.81E-03	-2.50E-04	1.63E-03
-2.95E-04	1.09E-02	2.63E-02	3.22E-02	6.25E-05	6.25E-05	6.25E-05	2.56E-03
-2.94E-04	1.06E-02	2.41E-02	2.81E-02	-1.50E-03	6.25E-05	6.25E-05	1.31E-03
-2.93E-04	8.75E-03	2.47E-02	3.06E-02	-8.75E-04	6.88E-04	-1.19E-03	6.88E-04
-2.92E-04	1.22E-02	2.47E-02	3.06E-02	-2.75E-03	-5.63E-04	-1.50E-03	2.25E-03
-2.91E-04	1.22E-02	2.50E-02	2.94E-02	-1.19E-03	-1.50E-03	-8.75E-04	1.31E-03
-2.90E-04	9.06E-03	2.25E-02	2.84E-02	-8.75E-04	-2.13E-03	1.00E-03	2.88E-03
-2.89E-04	1.06E-02	2.38E-02	2.91E-02	3.75E-04	-1.81E-03	6.25E-05	2.25E-03
-2.88E-04	1.28E-02	2.53E-02	2.66E-02	3.75E-04	-5.63E-04	1.00E-03	1.94E-03
-2.87E-04	1.22E-02	2.50E-02	2.88E-02	-1.19E-03	-2.13E-03	6.25E-05	1.63E-03
-2.86E-04	1.03E-02	2.66E-02	2.97E-02	-5.63E-04	1.31E-03	1.00E-03	4.13E-03
-2.85E-04	9.06E-03	2.47E-02	2.81E-02	-8.75E-04	-2.50E-04	-2.50E-04	2.88E-03
-2.84E-04	1.09E-02	2.50E-02	2.53E-02	-1.81E-03	3.75E-04	-1.50E-03	1.63E-03
-2.83E-04	1.03E-02	2.44E-02	2.78E-02	-5.63E-04	-5.63E-04	3.75E-04	1.63E-03
-2.82E-04	1.03E-02	2.50E-02	2.94E-02	6.25E-05	6.25E-05	6.25E-05	2.25E-03
-2.81E-04	1.16E-02	2.47E-02	2.94E-02	-2.50E-04	-2.75E-03	-1.19E-03	2.88E-03
-2.80E-04	1.06E-02	2.50E-02	2.94E-02	-2.50E-04	6.25E-05	1.94E-03	6.88E-04
-2.79E-04	1.16E-02	2.84E-02	2.78E-02	-2.50E-04	-8.75E-04	-5.63E-04	2.88E-03
-2.78E-04	1.13E-02	2.56E-02	2.94E-02	-1.50E-03	3.75E-04	-2.50E-04	-2.50E-04
-2.77E-04	1.03E-02	2.66E-02	2.94E-02	-2.44E-03	-2.44E-03	1.94E-03	2.56E-03
-2.76E-04	8.44E-03	2.66E-02	2.88E-02	-5.88E-03	-2.13E-03	-1.81E-03	1.31E-03
-2.75E-04	8.75E-03	2.59E-02	3.22E-02	-1.19E-03	6.88E-04	1.63E-03	1.00E-03
-2.74E-04	1.16E-02	2.44E-02	2.91E-02	-3.69E-03	-1.50E-03	6.88E-04	1.31E-03
-2.73E-04	1.19E-02	2.31E-02	3.03E-02	1.00E-03	-1.50E-03	-1.81E-03	6.25E-05
-2.72E-04	1.13E-02	2.34E-02	2.97E-02	-1.81E-03	-1.19E-03	1.31E-03	2.56E-03
-2.71E-04	1.00E-02	2.69E-02	2.97E-02	-2.44E-03	6.88E-04	6.88E-04	2.88E-03
-2.70E-04	1.03E-02	2.59E-02	2.91E-02	-2.50E-04	6.88E-04	-1.50E-03	1.00E-03
-2.69E-04	1.13E-02	2.41E-02	3.00E-02	-2.44E-03	-2.44E-03	-1.19E-03	1.63E-03
-2.68E-04	1.31E-02	2.66E-02	2.81E-02	6.25E-05	-8.75E-04	-8.75E-04	2.88E-03
-2.67E-04	1.25E-02	2.47E-02	2.84E-02	-2.13E-03	-1.81E-03	3.75E-04	3.75E-04
-2.66E-04	1.06E-02	2.50E-02	3.09E-02	3.75E-04	-5.63E-04	-1.50E-03	3.81E-03
-2.65E-04	1.00E-02	2.44E-02	2.88E-02	-1.19E-03	-1.19E-03	-1.81E-03	3.75E-04

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-2.64E-04	1.25E-02	2.47E-02	2.84E-02	-2.44E-03	-1.19E-03	-2.13E-03	3.75E-04
-2.63E-04	1.16E-02	2.50E-02	2.75E-02	3.75E-04	-1.50E-03	6.25E-05	1.00E-03
-2.62E-04	1.16E-02	2.44E-02	2.69E-02	-2.13E-03	-1.81E-03	-2.44E-03	6.25E-05
-2.61E-04	1.19E-02	2.56E-02	2.53E-02	-2.50E-04	-8.75E-04	-1.81E-03	2.25E-03
-2.60E-04	9.38E-03	2.66E-02	2.88E-02	-1.50E-03	6.25E-05	-2.13E-03	2.25E-03
-2.59E-04	9.38E-03	2.50E-02	2.91E-02	-1.19E-03	-3.06E-03	-5.63E-04	6.25E-05
-2.58E-04	1.03E-02	2.50E-02	2.56E-02	-1.19E-03	-1.19E-03	6.25E-05	6.88E-04
-2.57E-04	1.13E-02	2.41E-02	2.88E-02	1.00E-03	-5.63E-04	-1.81E-03	1.94E-03
-2.56E-04	9.06E-03	2.47E-02	2.75E-02	-5.63E-04	-1.19E-03	-1.50E-03	1.94E-03
-2.55E-04	1.09E-02	2.41E-02	2.81E-02	-2.13E-03	-1.50E-03	3.75E-04	1.94E-03
-2.54E-04	1.03E-02	2.53E-02	2.94E-02	1.63E-03	-1.81E-03	-1.50E-03	2.25E-03
-2.53E-04	8.44E-03	2.63E-02	2.94E-02	-2.13E-03	1.31E-03	3.75E-04	4.13E-03
-2.52E-04	9.38E-03	2.59E-02	2.94E-02	3.75E-04	3.75E-04	2.56E-03	1.31E-03
-2.51E-04	1.16E-02	2.50E-02	2.91E-02	-5.63E-04	-2.44E-03	1.31E-03	3.19E-03
-2.50E-04	1.09E-02	2.50E-02	2.88E-02	-2.13E-03	-1.19E-03	6.25E-05	1.31E-03
-2.49E-04	1.13E-02	2.75E-02	2.97E-02	-1.81E-03	6.94E-03	-1.19E-03	3.75E-04
-2.48E-04	1.03E-02	2.47E-02	2.94E-02	-2.50E-04	-8.75E-04	-1.19E-03	3.50E-03
-2.47E-04	1.19E-02	2.50E-02	2.84E-02	1.63E-03	6.25E-05	-2.44E-03	3.81E-03
-2.46E-04	1.06E-02	2.41E-02	2.91E-02	-3.06E-03	-2.50E-04	-1.19E-03	6.25E-05
-2.45E-04	1.13E-02	2.53E-02	3.03E-02	-5.63E-04	1.31E-03	-1.19E-03	2.56E-03
-2.44E-04	1.06E-02	2.72E-02	2.97E-02	3.75E-04	-8.75E-04	3.75E-04	2.88E-03
-2.43E-04	1.13E-02	2.69E-02	2.84E-02	-8.75E-04	6.25E-05	-1.50E-03	2.88E-03
-2.42E-04	9.69E-03	2.69E-02	2.84E-02	-1.19E-03	-3.06E-03	-1.19E-03	3.81E-03
-2.41E-04	9.38E-03	2.69E-02	2.91E-02	-1.81E-03	-1.50E-03	2.56E-03	1.63E-03
-2.40E-04	1.00E-02	2.59E-02	2.72E-02	-5.63E-04	-5.63E-04	1.31E-03	1.94E-03
-2.39E-04	1.03E-02	2.53E-02	2.78E-02	-1.81E-03	-2.50E-04	-8.75E-04	1.94E-03
-2.38E-04	9.06E-03	2.44E-02	2.94E-02	-8.75E-04	-8.75E-04	6.25E-05	1.94E-03
-2.37E-04	1.16E-02	2.44E-02	2.84E-02	6.88E-04	-1.81E-03	-5.63E-04	3.50E-03
-2.36E-04	9.38E-03	2.44E-02	2.94E-02	-1.50E-03	-5.63E-04	6.88E-04	3.19E-03
-2.35E-04	1.16E-02	2.41E-02	2.84E-02	-2.44E-03	6.25E-05	-2.44E-03	1.94E-03
-2.34E-04	1.00E-02	2.66E-02	2.88E-02	-1.19E-03	-8.75E-04	-2.50E-04	2.56E-03
-2.33E-04	9.38E-03	2.38E-02	2.84E-02	-2.50E-04	3.75E-04	-8.75E-04	1.31E-03
-2.32E-04	1.06E-02	2.44E-02	2.88E-02	6.88E-04	-5.63E-04	-1.81E-03	2.56E-03
-2.31E-04	9.06E-03	2.38E-02	2.75E-02	6.88E-04	-5.63E-04	1.00E-03	1.00E-03
-2.30E-04	1.03E-02	2.56E-02	2.69E-02	-2.50E-04	-1.81E-03	1.31E-03	1.63E-03
-2.29E-04	1.22E-02	2.53E-02	3.06E-02	3.75E-04	-1.19E-03	1.63E-03	-8.75E-04
-2.28E-04	9.38E-03	2.53E-02	2.69E-02	-1.81E-03	-5.63E-04	-5.63E-04	1.00E-03
-2.27E-04	1.06E-02	2.44E-02	2.78E-02	-5.63E-04	-3.69E-03	-1.19E-03	2.25E-03
-2.26E-04	1.19E-02	2.41E-02	2.94E-02	6.88E-04	-1.19E-03	1.31E-03	1.94E-03
-2.25E-04	1.00E-02	2.56E-02	2.91E-02	-5.63E-04	-1.19E-03	3.75E-04	2.88E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-2.24E-04	8.75E-03	2.41E-02	2.72E-02	-1.81E-03	6.25E-05	-5.63E-04	3.75E-04
-2.23E-04	1.06E-02	2.47E-02	2.91E-02	-3.06E-03	-1.81E-03	-1.81E-03	3.19E-03
-2.22E-04	1.00E-02	2.31E-02	3.00E-02	-2.50E-04	1.00E-03	-1.81E-03	3.75E-04
-2.21E-04	1.13E-02	2.34E-02	2.78E-02	-3.69E-03	-1.50E-03	-1.19E-03	-5.63E-04
-2.20E-04	1.03E-02	2.50E-02	3.00E-02	-2.44E-03	-8.75E-04	2.25E-03	1.00E-03
-2.19E-04	1.03E-02	2.59E-02	2.81E-02	3.75E-04	-1.50E-03	-8.75E-04	6.25E-05
-2.18E-04	1.16E-02	2.22E-02	2.81E-02	-2.75E-03	3.75E-04	-2.13E-03	6.88E-04
-2.17E-04	1.13E-02	2.50E-02	2.66E-02	-2.50E-04	3.75E-04	3.75E-04	1.31E-03
-2.16E-04	9.69E-03	2.59E-02	3.03E-02	1.31E-03	6.88E-04	-2.50E-04	2.88E-03
-2.15E-04	1.13E-02	2.66E-02	2.69E-02	-1.81E-03	3.81E-03	-2.13E-03	1.63E-03
-2.14E-04	1.09E-02	2.59E-02	2.81E-02	-8.75E-04	6.25E-05	-8.75E-04	6.25E-05
-2.13E-04	1.09E-02	2.81E-02	2.72E-02	-8.75E-04	-8.75E-04	1.00E-03	3.19E-03
-2.12E-04	1.06E-02	2.66E-02	2.81E-02	-1.19E-03	6.25E-05	3.75E-04	6.25E-05
-2.11E-04	1.03E-02	2.50E-02	2.44E-02	-2.44E-03	-5.63E-04	-1.50E-03	1.31E-03
-2.10E-04	9.06E-03	2.47E-02	2.91E-02	3.75E-04	-2.50E-04	3.75E-04	4.13E-03
-2.09E-04	1.00E-02	2.44E-02	2.72E-02	-2.13E-03	-1.19E-03	6.25E-05	1.63E-03
-2.08E-04	9.38E-03	2.31E-02	2.97E-02	-2.75E-03	-2.50E-04	6.88E-04	-5.63E-04
-2.07E-04	8.44E-03	2.44E-02	2.72E-02	-5.63E-04	3.75E-04	6.25E-05	2.56E-03
-2.06E-04	1.19E-02	2.50E-02	2.97E-02	-2.50E-04	-1.81E-03	-1.19E-03	2.88E-03
-2.05E-04	1.13E-02	2.47E-02	3.00E-02	-2.13E-03	1.31E-03	1.63E-03	1.63E-03
-2.04E-04	1.03E-02	2.59E-02	2.75E-02	-2.50E-04	-5.63E-04	3.75E-04	1.00E-03
-2.03E-04	9.69E-03	2.56E-02	3.03E-02	-2.44E-03	-2.13E-03	6.25E-05	1.31E-03
-2.02E-04	1.16E-02	2.59E-02	2.94E-02	-1.19E-03	-5.63E-04	6.88E-04	1.31E-03
-2.01E-04	9.38E-03	2.56E-02	3.03E-02	-3.06E-03	-1.50E-03	1.63E-03	-1.81E-03
-2.00E-04	1.16E-02	2.56E-02	3.00E-02	-8.75E-04	-1.81E-03	3.75E-04	2.56E-03
-1.99E-04	8.13E-03	2.50E-02	2.91E-02	-2.13E-03	-2.75E-03	-2.13E-03	1.31E-03
-1.98E-04	9.38E-03	2.44E-02	2.72E-02	-8.75E-04	-2.13E-03	-1.19E-03	2.56E-03
-1.97E-04	1.03E-02	2.53E-02	2.91E-02	6.25E-05	6.88E-04	1.00E-03	1.94E-03
-1.96E-04	9.38E-03	2.63E-02	2.78E-02	-8.75E-04	3.75E-04	-8.75E-04	1.94E-03
-1.95E-04	1.22E-02	2.59E-02	2.91E-02	6.88E-04	-5.63E-04	-3.69E-03	2.56E-03
-1.94E-04	1.13E-02	2.44E-02	3.06E-02	-8.75E-04	-1.81E-03	2.56E-03	-1.19E-03
-1.93E-04	1.25E-02	2.47E-02	3.03E-02	-5.63E-04	-8.75E-04	-1.19E-03	1.94E-03
-1.92E-04	1.03E-02	2.47E-02	2.91E-02	-2.44E-03	6.25E-05	6.25E-05	2.56E-03
-1.91E-04	1.13E-02	2.50E-02	2.81E-02	-2.50E-04	-1.19E-03	6.88E-04	2.25E-03
-1.90E-04	9.38E-03	2.41E-02	2.81E-02	-2.50E-04	-2.13E-03	1.94E-03	2.25E-03
-1.89E-04	1.13E-02	2.47E-02	2.84E-02	-1.81E-03	-8.75E-04	6.25E-05	-2.50E-04
-1.88E-04	1.03E-02	2.66E-02	2.75E-02	-2.50E-04	-2.50E-04	-2.13E-03	1.00E-03
-1.87E-04	1.00E-02	2.53E-02	2.81E-02	6.25E-05	-5.63E-04	1.31E-03	2.88E-03
-1.86E-04	1.25E-02	2.47E-02	2.91E-02	-1.81E-03	-2.50E-04	6.88E-04	3.75E-04
-1.85E-04	9.38E-03	2.56E-02	2.94E-02	3.75E-04	-8.75E-04	-1.81E-03	1.31E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-1.84E-04	1.00E-02	2.63E-02	2.84E-02	6.88E-04	-8.75E-04	3.50E-03	1.31E-03
-1.83E-04	1.06E-02	2.59E-02	2.78E-02	-1.19E-03	6.25E-05	1.00E-03	2.25E-03
-1.82E-04	9.69E-03	2.59E-02	2.84E-02	-1.81E-03	-3.69E-03	1.94E-03	2.56E-03
-1.81E-04	1.13E-02	2.41E-02	2.91E-02	-5.63E-04	-2.44E-03	-1.19E-03	1.94E-03
-1.80E-04	1.09E-02	2.47E-02	2.97E-02	-1.19E-03	1.31E-03	6.25E-05	1.94E-03
-1.79E-04	1.06E-02	2.69E-02	2.84E-02	6.88E-04	-2.13E-03	-1.50E-03	1.94E-03
-1.78E-04	1.06E-02	2.53E-02	2.59E-02	-8.75E-04	-3.06E-03	6.25E-05	6.88E-04
-1.77E-04	1.13E-02	2.34E-02	2.88E-02	3.75E-04	-2.13E-03	1.31E-03	2.56E-03
-1.76E-04	1.06E-02	2.41E-02	2.94E-02	-8.75E-04	-8.75E-04	-2.50E-04	2.88E-03
-1.75E-04	1.19E-02	2.53E-02	2.81E-02	1.63E-03	-2.50E-04	6.25E-05	2.88E-03
-1.74E-04	9.38E-03	2.53E-02	3.09E-02	-8.75E-04	3.75E-04	1.31E-03	2.25E-03
-1.73E-04	1.25E-02	2.59E-02	2.91E-02	-2.50E-04	-8.75E-04	1.00E-03	3.75E-04
-1.72E-04	9.06E-03	2.44E-02	2.94E-02	-8.75E-04	-2.50E-04	-1.81E-03	2.88E-03
-1.71E-04	9.06E-03	2.31E-02	3.00E-02	6.25E-05	-1.19E-03	-1.81E-03	6.25E-05
-1.70E-04	1.13E-02	2.41E-02	2.84E-02	-2.13E-03	-2.75E-03	-5.63E-04	3.75E-04
-1.69E-04	1.09E-02	2.56E-02	2.81E-02	1.94E-03	-5.63E-04	-1.19E-03	2.25E-03
-1.68E-04	9.38E-03	2.53E-02	2.88E-02	-8.75E-04	-2.50E-04	6.25E-05	3.75E-04
-1.67E-04	1.25E-02	2.31E-02	2.75E-02	-5.63E-04	-8.75E-04	1.00E-03	3.50E-03
-1.66E-04	1.16E-02	2.59E-02	3.06E-02	-2.50E-04	-1.19E-03	-1.19E-03	3.75E-04
-1.65E-04	8.44E-03	2.66E-02	2.81E-02	-2.13E-03	-2.75E-03	6.25E-05	1.63E-03
-1.64E-04	1.06E-02	2.63E-02	2.78E-02	-1.19E-03	-1.19E-03	-8.75E-04	1.31E-03
-1.63E-04	1.03E-02	2.31E-02	2.66E-02	-5.63E-04	-3.06E-03	3.75E-04	3.75E-04
-1.62E-04	9.69E-03	2.38E-02	3.03E-02	1.31E-03	6.88E-04	1.31E-03	1.94E-03
-1.61E-04	1.03E-02	2.41E-02	2.53E-02	-5.63E-04	-1.50E-03	1.00E-03	2.88E-03
-1.60E-04	9.69E-03	2.50E-02	3.00E-02	-8.75E-04	-2.44E-03	-1.50E-03	-8.75E-04
-1.59E-04	1.22E-02	2.53E-02	2.81E-02	-2.44E-03	-1.19E-03	-5.63E-04	1.63E-03
-1.58E-04	1.06E-02	2.53E-02	3.06E-02	1.63E-03	-1.81E-03	1.31E-03	6.88E-04
-1.57E-04	1.06E-02	2.66E-02	2.75E-02	1.00E-03	-1.19E-03	2.56E-03	1.00E-03
-1.56E-04	1.25E-02	2.63E-02	2.91E-02	-8.75E-04	-2.50E-04	-2.50E-04	1.94E-03
-1.55E-04	1.03E-02	2.53E-02	3.00E-02	-2.50E-04	-3.06E-03	-2.13E-03	1.63E-03
-1.54E-04	1.47E-02	2.53E-02	3.16E-02	-2.50E-04	3.75E-04	6.25E-05	3.75E-04
-1.53E-04	1.13E-02	2.41E-02	2.81E-02	-5.63E-04	-1.19E-03	1.00E-03	1.94E-03
-1.52E-04	1.22E-02	2.59E-02	2.94E-02	-1.19E-03	-1.81E-03	1.00E-03	6.88E-04
-1.51E-04	1.16E-02	2.50E-02	2.75E-02	-2.50E-04	-2.44E-03	3.75E-04	1.31E-03
-1.50E-04	1.25E-02	2.44E-02	2.94E-02	-1.50E-03	-1.81E-03	-2.44E-03	-5.63E-04
-1.49E-04	1.09E-02	2.56E-02	3.09E-02	6.25E-05	-1.50E-03	3.75E-04	-5.63E-04
-1.48E-04	9.06E-03	2.56E-02	2.69E-02	2.88E-03	-1.19E-03	-5.63E-04	6.88E-04
-1.47E-04	1.31E-02	2.22E-02	2.81E-02	1.63E-03	-2.50E-04	6.88E-04	3.50E-03
-1.46E-04	9.69E-03	2.41E-02	2.97E-02	-1.50E-03	6.25E-05	6.25E-05	1.63E-03
-1.45E-04	1.16E-02	2.59E-02	2.84E-02	-5.63E-04	-2.13E-03	-8.75E-04	1.31E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-1.44E-04	9.69E-03	2.56E-02	2.97E-02	-1.50E-03	3.75E-04	6.88E-04	6.88E-04
-1.43E-04	9.38E-03	2.44E-02	2.84E-02	-1.19E-03	-1.50E-03	6.25E-05	2.25E-03
-1.42E-04	1.28E-02	2.44E-02	2.69E-02	-2.50E-04	-2.50E-04	-2.50E-04	1.00E-03
-1.41E-04	9.69E-03	2.53E-02	2.72E-02	-2.50E-04	-1.19E-03	1.31E-03	3.19E-03
-1.40E-04	1.13E-02	2.66E-02	2.75E-02	-1.19E-03	-2.50E-04	-1.19E-03	2.88E-03
-1.39E-04	9.06E-03	2.50E-02	2.94E-02	-1.50E-03	-1.19E-03	6.88E-04	3.50E-03
-1.38E-04	9.69E-03	2.41E-02	2.66E-02	1.00E-03	-8.75E-04	6.25E-05	1.94E-03
-1.37E-04	1.03E-02	2.59E-02	3.03E-02	-8.75E-04	-1.19E-03	1.31E-03	2.25E-03
-1.36E-04	1.22E-02	2.47E-02	2.75E-02	-1.50E-03	-2.13E-03	-1.19E-03	1.63E-03
-1.35E-04	1.16E-02	2.22E-02	3.06E-02	-1.81E-03	6.88E-04	6.25E-05	1.63E-03
-1.34E-04	1.00E-02	2.53E-02	2.94E-02	-5.63E-04	3.75E-04	-1.19E-03	6.88E-04
-1.33E-04	1.03E-02	2.34E-02	2.78E-02	-8.75E-04	-1.19E-03	-1.81E-03	2.25E-03
-1.32E-04	1.00E-02	2.50E-02	2.75E-02	-2.13E-03	-2.13E-03	-5.63E-04	-2.50E-04
-1.31E-04	1.22E-02	2.59E-02	2.44E-02	-2.50E-04	-2.75E-03	-2.50E-04	1.94E-03
-1.30E-04	1.00E-02	2.59E-02	2.81E-02	6.88E-04	-5.63E-04	-5.63E-04	-2.50E-04
-1.29E-04	8.75E-03	2.69E-02	2.75E-02	6.25E-05	-2.44E-03	3.75E-04	3.50E-03
-1.28E-04	1.13E-02	2.59E-02	2.81E-02	-1.50E-03	-3.69E-03	1.00E-03	6.25E-05
-1.27E-04	1.22E-02	2.72E-02	3.00E-02	-2.13E-03	-3.06E-03	-1.19E-03	-5.63E-04
-1.26E-04	1.16E-02	2.47E-02	2.94E-02	-3.69E-03	-2.75E-03	-2.50E-04	1.00E-03
-1.25E-04	1.06E-02	2.59E-02	2.84E-02	-2.50E-04	1.31E-03	-2.50E-04	1.31E-03
-1.24E-04	1.13E-02	2.44E-02	2.69E-02	-3.06E-03	3.75E-04	-8.75E-04	-1.19E-03
-1.23E-04	1.22E-02	2.38E-02	3.16E-02	-5.63E-04	-8.75E-04	-1.50E-03	6.88E-04
-1.22E-04	1.19E-02	2.41E-02	2.81E-02	-5.63E-04	-1.50E-03	-1.50E-03	1.00E-03
-1.21E-04	9.06E-03	2.38E-02	2.75E-02	-1.81E-03	-1.19E-03	-8.75E-04	1.31E-03
-1.20E-04	1.09E-02	2.47E-02	2.94E-02	6.88E-04	-1.50E-03	3.75E-04	1.31E-03
-1.19E-04	6.56E-03	2.69E-02	2.81E-02	-2.50E-04	-2.44E-03	6.88E-04	2.56E-03
-1.18E-04	1.06E-02	2.50E-02	2.84E-02	-2.75E-03	-5.63E-04	-8.75E-04	1.31E-03
-1.17E-04	1.00E-02	2.63E-02	2.81E-02	7.25E-03	-1.19E-03	6.25E-05	1.00E-03
-1.16E-04	9.69E-03	2.63E-02	2.63E-02	-2.50E-04	-1.19E-03	-2.50E-04	1.94E-03
-1.15E-04	8.75E-03	2.25E-02	2.84E-02	-2.50E-04	-5.63E-04	-5.63E-04	1.31E-03
-1.14E-04	9.69E-03	2.47E-02	2.94E-02	-2.50E-04	-2.75E-03	-3.38E-03	1.63E-03
-1.13E-04	1.13E-02	2.47E-02	2.78E-02	-5.63E-04	-2.50E-04	-1.50E-03	4.13E-03
-1.12E-04	1.00E-02	2.47E-02	2.88E-02	1.00E-03	-3.06E-03	-5.63E-04	3.75E-04
-1.11E-04	1.09E-02	2.47E-02	2.81E-02	-2.75E-03	-1.19E-03	-2.50E-04	1.00E-03
-1.10E-04	1.00E-02	2.56E-02	2.72E-02	1.63E-03	1.00E-03	-1.19E-03	2.25E-03
-1.09E-04	1.00E-02	2.53E-02	2.53E-02	-1.19E-03	-8.75E-04	1.31E-03	3.81E-03
-1.08E-04	1.03E-02	2.47E-02	2.97E-02	-5.63E-04	-1.81E-03	-5.63E-04	6.25E-05
-1.07E-04	1.31E-02	2.50E-02	2.84E-02	-1.81E-03	-1.50E-03	6.88E-04	3.81E-03
-1.06E-04	1.09E-02	2.38E-02	2.94E-02	-5.63E-04	-1.50E-03	-8.75E-04	3.75E-04
-1.05E-04	9.06E-03	2.47E-02	2.72E-02	3.75E-04	-5.63E-04	-5.63E-04	1.63E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-1.04E-04	9.69E-03	2.50E-02	2.81E-02	-2.50E-04	-1.19E-03	6.25E-05	1.31E-03
-1.03E-04	9.06E-03	2.56E-02	2.75E-02	-2.44E-03	-2.50E-04	-8.75E-04	-2.50E-04
-1.02E-04	1.09E-02	2.72E-02	2.94E-02	6.25E-05	-5.63E-04	-5.63E-04	1.00E-03
-1.01E-04	8.75E-03	2.41E-02	2.91E-02	-5.63E-04	6.25E-05	-2.50E-04	-2.50E-04
-1.00E-04	9.06E-03	2.63E-02	2.75E-02	-1.50E-03	-2.50E-04	-2.50E-04	3.19E-03
-9.90E-05	1.03E-02	2.41E-02	2.75E-02	-8.75E-04	-5.63E-04	3.75E-04	-2.50E-04
-9.80E-05	9.06E-03	2.41E-02	2.94E-02	-1.19E-03	-1.19E-03	6.25E-05	3.19E-03
-9.70E-05	9.38E-03	2.38E-02	2.78E-02	-2.75E-03	-2.44E-03	3.75E-04	1.00E-03
-9.60E-05	1.13E-02	2.38E-02	3.06E-02	6.88E-04	-3.38E-03	-5.63E-04	3.19E-03
-9.50E-05	1.25E-02	2.50E-02	2.78E-02	6.25E-05	-5.63E-04	1.00E-03	1.31E-03
-9.40E-05	1.28E-02	2.44E-02	2.88E-02	-1.50E-03	-1.19E-03	1.00E-03	1.94E-03
-9.30E-05	1.03E-02	2.44E-02	2.81E-02	-1.50E-03	-3.06E-03	1.00E-03	3.50E-03
-9.20E-05	9.38E-03	2.56E-02	2.88E-02	6.25E-05	-2.75E-03	3.75E-04	3.75E-04
-9.10E-05	1.31E-02	2.41E-02	2.81E-02	-2.50E-04	-5.63E-04	-2.50E-04	4.13E-03
-9.00E-05	1.03E-02	2.25E-02	3.00E-02	-5.63E-04	-2.50E-04	-2.50E-04	2.88E-03
-8.90E-05	1.13E-02	2.47E-02	2.84E-02	6.25E-05	-1.50E-03	-1.19E-03	2.56E-03
-8.80E-05	1.00E-02	2.34E-02	2.84E-02	-1.19E-03	-8.75E-04	-5.63E-04	1.94E-03
-8.70E-05	1.19E-02	2.53E-02	2.91E-02	-2.13E-03	6.25E-05	-5.63E-04	3.50E-03
-8.60E-05	9.06E-03	2.59E-02	2.72E-02	-5.63E-04	-5.63E-04	-2.13E-03	1.63E-03
-8.50E-05	1.09E-02	2.47E-02	2.97E-02	5.69E-03	-1.50E-03	-2.75E-03	-5.63E-04
-8.40E-05	1.75E-02	2.47E-02	2.97E-02	-2.50E-04	-1.81E-03	-2.44E-03	1.31E-03
-8.30E-05	8.44E-03	2.50E-02	2.88E-02	-2.13E-03	-1.81E-03	6.88E-04	1.31E-03
-8.20E-05	1.03E-02	2.59E-02	2.59E-02	-2.50E-04	-5.63E-04	-1.19E-03	2.88E-03
-8.10E-05	9.38E-03	2.53E-02	2.94E-02	6.25E-05	-4.31E-03	-8.75E-04	3.19E-03
-8.00E-05	1.13E-02	2.53E-02	2.63E-02	-5.63E-04	6.25E-05	1.63E-03	-1.50E-03
-7.90E-05	1.00E-02	2.75E-02	2.81E-02	-5.63E-04	-8.75E-04	-5.63E-04	2.25E-03
-7.80E-05	8.44E-03	2.28E-02	2.97E-02	-2.13E-03	-2.13E-03	6.25E-05	1.94E-03
-7.70E-05	1.13E-02	2.41E-02	2.94E-02	6.88E-04	-1.19E-03	-5.63E-04	1.63E-03
-7.60E-05	9.38E-03	2.53E-02	3.13E-02	-1.50E-03	-1.81E-03	-5.63E-04	-2.50E-04
-7.50E-05	9.06E-03	2.44E-02	3.03E-02	-5.63E-04	-5.63E-04	3.75E-04	1.63E-03
-7.40E-05	1.16E-02	2.25E-02	2.91E-02	-5.63E-04	-2.13E-03	-1.81E-03	6.25E-05
-7.30E-05	1.16E-02	2.63E-02	2.88E-02	-3.06E-03	6.25E-05	-2.50E-04	6.88E-04
-7.20E-05	1.00E-02	2.56E-02	2.97E-02	-2.13E-03	-6.19E-03	1.00E-03	2.56E-03
-7.10E-05	1.09E-02	2.38E-02	3.00E-02	-5.63E-04	-2.44E-03	-5.63E-04	6.88E-04
-7.00E-05	1.09E-02	2.38E-02	2.97E-02	-5.63E-04	-2.44E-03	6.25E-05	2.56E-03
-6.90E-05	1.25E-02	2.41E-02	2.97E-02	-1.81E-03	1.31E-03	2.56E-03	1.63E-03
-6.80E-05	1.13E-02	2.66E-02	2.75E-02	-1.50E-03	-1.81E-03	-1.19E-03	1.94E-03
-6.70E-05	1.25E-02	2.44E-02	3.03E-02	6.25E-05	-1.19E-03	-1.19E-03	1.31E-03
-6.60E-05	1.13E-02	2.38E-02	2.78E-02	-2.50E-04	-1.19E-03	-1.19E-03	3.50E-03
-6.50E-05	1.03E-02	2.53E-02	2.72E-02	-3.69E-03	3.75E-04	1.63E-03	3.50E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-6.40E-05	1.19E-02	2.47E-02	3.13E-02	-5.63E-04	-1.19E-03	6.25E-05	1.00E-03
-6.30E-05	1.06E-02	2.47E-02	2.81E-02	6.25E-05	-1.81E-03	-2.50E-04	1.63E-03
-6.20E-05	1.19E-02	2.44E-02	3.00E-02	-5.63E-04	-5.63E-04	-8.75E-04	2.56E-03
-6.10E-05	1.06E-02	2.53E-02	2.88E-02	-1.50E-03	-2.50E-04	6.25E-05	2.25E-03
-6.00E-05	1.03E-02	2.63E-02	2.94E-02	1.63E-03	-2.75E-03	-1.19E-03	1.00E-03
-5.90E-05	9.06E-03	2.41E-02	3.03E-02	6.88E-04	6.25E-05	-8.75E-04	-5.63E-04
-5.80E-05	1.06E-02	2.22E-02	2.75E-02	-1.19E-03	-1.19E-03	-8.75E-04	3.81E-03
-5.70E-05	1.03E-02	2.47E-02	2.75E-02	-2.50E-04	-2.75E-03	-2.50E-04	1.94E-03
-5.60E-05	1.22E-02	2.63E-02	2.66E-02	-1.19E-03	-2.75E-03	-1.19E-03	1.63E-03
-5.50E-05	1.22E-02	2.63E-02	2.72E-02	-1.50E-03	-2.75E-03	-2.50E-04	4.44E-03
-5.40E-05	1.13E-02	2.47E-02	2.88E-02	-8.75E-04	-1.50E-03	6.25E-05	2.25E-03
-5.30E-05	1.22E-02	2.47E-02	2.91E-02	6.25E-05	-1.19E-03	3.75E-04	2.88E-03
-5.20E-05	1.28E-02	2.59E-02	2.78E-02	-2.13E-03	-5.63E-04	-2.50E-04	2.56E-03
-5.10E-05	1.16E-02	2.50E-02	2.66E-02	-1.19E-03	-1.81E-03	-8.75E-04	2.56E-03
-5.00E-05	1.06E-02	2.59E-02	2.88E-02	-3.38E-03	-8.75E-04	-2.50E-04	2.25E-03
-4.90E-05	5.94E-03	2.50E-02	2.91E-02	1.00E-03	1.31E-03	-1.19E-03	1.00E-03
-4.80E-05	1.13E-02	2.56E-02	2.69E-02	-1.19E-03	6.25E-05	-2.50E-04	1.00E-03
-4.70E-05	9.69E-03	2.47E-02	2.91E-02	-2.50E-04	-2.13E-03	2.25E-03	1.63E-03
-4.60E-05	1.13E-02	2.38E-02	2.78E-02	-2.50E-04	-1.19E-03	6.25E-05	2.25E-03
-4.50E-05	1.00E-02	2.50E-02	2.97E-02	3.75E-04	-2.13E-03	-5.63E-04	2.25E-03
-4.40E-05	1.00E-02	2.28E-02	2.88E-02	3.75E-04	-2.13E-03	6.25E-05	6.88E-04
-4.30E-05	9.38E-03	2.50E-02	2.91E-02	-1.81E-03	-2.44E-03	1.94E-03	3.75E-04
-4.20E-05	1.19E-02	2.50E-02	3.09E-02	-8.75E-04	1.00E-03	-1.19E-03	1.94E-03
-4.10E-05	1.13E-02	2.66E-02	3.13E-02	-3.38E-03	-5.63E-04	-2.13E-03	1.94E-03
-4.00E-05	9.69E-03	2.31E-02	2.97E-02	-2.75E-03	-1.19E-03	-1.50E-03	3.81E-03
-3.90E-05	9.38E-03	2.75E-02	2.72E-02	-2.50E-04	6.88E-04	-8.75E-04	6.88E-04
-3.80E-05	1.09E-02	2.56E-02	2.88E-02	-1.19E-03	3.75E-04	-2.50E-04	2.88E-03
-3.70E-05	1.09E-02	2.59E-02	2.69E-02	-1.81E-03	-2.44E-03	-1.50E-03	4.13E-03
-3.60E-05	8.13E-03	2.47E-02	2.84E-02	-1.19E-03	6.25E-05	-2.50E-04	2.88E-03
-3.50E-05	1.13E-02	2.63E-02	2.78E-02	-8.75E-04	-5.63E-04	6.88E-04	1.31E-03
-3.40E-05	1.09E-02	2.56E-02	3.00E-02	-5.63E-04	-2.44E-03	-2.44E-03	2.88E-03
-3.30E-05	1.34E-02	2.44E-02	2.72E-02	-5.63E-04	-1.50E-03	-5.63E-04	1.63E-03
-3.20E-05	1.09E-02	2.47E-02	2.94E-02	-2.50E-04	1.94E-03	-2.44E-03	1.31E-03
-3.10E-05	1.00E-02	2.44E-02	3.00E-02	-2.50E-04	-8.75E-04	-1.19E-03	2.25E-03
-3.00E-05	1.03E-02	2.50E-02	2.81E-02	-2.13E-03	6.25E-05	3.75E-04	3.50E-03
-2.90E-05	1.00E-02	2.66E-02	2.94E-02	-1.19E-03	-8.75E-04	1.00E-03	1.31E-03
-2.80E-05	1.00E-02	2.47E-02	3.03E-02	-1.81E-03	-1.19E-03	-2.50E-04	6.25E-05
-2.70E-05	1.13E-02	2.44E-02	2.94E-02	-1.19E-03	-8.75E-04	3.50E-03	3.50E-03
-2.60E-05	1.09E-02	2.53E-02	3.16E-02	-2.13E-03	-1.50E-03	-1.50E-03	2.56E-03
-2.50E-05	1.03E-02	2.53E-02	3.09E-02	1.00E-03	-5.63E-04	-2.44E-03	1.94E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
-2.40E-05	9.38E-03	2.25E-02	2.81E-02	3.75E-04	-2.50E-04	1.00E-03	1.31E-03
-2.30E-05	1.19E-02	2.41E-02	2.94E-02	-2.44E-03	-5.63E-04	3.75E-04	3.75E-04
-2.20E-05	1.00E-02	2.72E-02	2.94E-02	-5.63E-04	-1.81E-03	-2.50E-04	2.25E-03
-2.10E-05	1.31E-02	2.41E-02	3.19E-02	-1.19E-03	-1.50E-03	-1.81E-03	1.63E-03
-2.00E-05	1.19E-02	2.25E-02	2.75E-02	-1.81E-03	-2.13E-03	-1.19E-03	-2.50E-04
-1.90E-05	1.28E-02	2.41E-02	2.81E-02	1.63E-03	-5.63E-04	-1.81E-03	1.63E-03
-1.80E-05	1.06E-02	2.47E-02	2.94E-02	-1.19E-03	-3.38E-03	-3.38E-03	1.31E-03
-1.70E-05	1.03E-02	2.47E-02	2.78E-02	-1.19E-03	-1.50E-03	6.88E-04	1.31E-03
-1.60E-05	9.38E-03	2.53E-02	2.72E-02	-8.75E-04	-2.44E-03	6.88E-04	1.94E-03
-1.50E-05	8.44E-03	2.41E-02	2.94E-02	1.63E-03	-2.50E-04	-8.75E-04	1.63E-03
-1.40E-05	7.81E-03	2.44E-02	2.91E-02	-2.50E-04	-2.50E-04	3.81E-03	2.56E-03
-1.30E-05	1.00E-02	2.53E-02	2.69E-02	6.25E-05	1.94E-03	6.88E-04	-2.50E-04
-1.20E-05	1.03E-02	2.53E-02	2.72E-02	-2.75E-03	-1.50E-03	-1.19E-03	1.00E-03
-1.10E-05	1.13E-02	2.63E-02	3.13E-02	-1.19E-03	6.25E-05	-5.63E-04	1.31E-03
-1.00E-05	9.06E-03	2.63E-02	2.97E-02	3.75E-04	-1.50E-03	-1.50E-03	2.25E-03
-9.00E-06	1.16E-02	2.63E-02	2.91E-02	3.75E-04	1.00E-03	6.88E-04	1.00E-03
-8.00E-06	1.13E-02	2.94E-02	2.97E-02	-1.50E-03	-1.81E-03	-8.75E-04	1.31E-03
-7.00E-06	9.69E-03	2.38E-02	2.97E-02	-2.13E-03	-2.13E-03	-5.63E-04	1.94E-03
-6.00E-06	1.06E-02	2.38E-02	2.75E-02	-2.44E-03	-8.75E-04	-1.50E-03	3.50E-03
-5.00E-06	9.06E-03	2.66E-02	2.88E-02	-8.75E-04	-2.50E-04	6.25E-05	3.50E-03
-4.00E-06	1.22E-02	2.91E-02	3.03E-02	-2.50E-04	-2.50E-04	-2.13E-03	6.25E-05
-3.00E-06	1.28E-02	2.63E-02	2.94E-02	3.75E-04	-3.06E-03	1.00E-03	1.63E-03
-2.00E-06	1.19E-02	2.38E-02	2.88E-02	-1.19E-03	-2.50E-04	-1.19E-03	1.94E-03
-1.00E-06	9.69E-03	2.44E-02	2.97E-02	6.88E-04	-2.13E-03	-2.50E-04	-8.75E-04
0.00E+00	1.06E-02	2.53E-02	2.78E-02	-4.63E-03	-8.75E-04	3.50E-03	3.50E-03
1.00E-06	1.09E-02	2.69E-02	2.84E-02	-1.81E-03	-1.81E-03	6.88E-04	1.63E-03
2.00E-06	1.28E-02	2.25E-02	2.84E-02	6.25E-05	2.25E-03	3.75E-04	2.56E-03
3.00E-06	6.25E-03	2.47E-02	3.00E-02	-2.50E-04	-5.63E-04	1.31E-03	1.31E-03
4.00E-06	1.06E-02	2.31E-02	2.88E-02	-8.75E-04	-3.38E-03	-8.75E-04	2.56E-03
5.00E-06	8.13E-03	2.47E-02	2.75E-02	3.75E-04	-1.81E-03	-2.50E-04	2.88E-03
6.00E-06	1.19E-02	2.50E-02	2.72E-02	6.25E-05	-2.50E-04	1.63E-03	1.00E-03
7.00E-06	9.06E-03	2.50E-02	3.06E-02	6.25E-05	-2.44E-03	-1.19E-03	1.94E-03
8.00E-06	1.19E-02	2.47E-02	2.97E-02	3.75E-04	-1.50E-03	-1.50E-03	1.63E-03
9.00E-06	1.22E-02	2.63E-02	2.94E-02	-5.63E-04	1.94E-03	3.75E-04	6.25E-05
1.00E-05	1.06E-02	2.25E-02	2.97E-02	-1.19E-03	-5.63E-04	-5.63E-04	-2.50E-04
1.10E-05	9.38E-03	2.50E-02	2.84E-02	-1.19E-03	-4.00E-03	-5.63E-04	2.25E-03
1.20E-05	1.09E-02	2.47E-02	2.81E-02	-3.69E-03	-4.00E-03	1.00E-03	3.50E-03
1.30E-05	1.09E-02	2.50E-02	2.91E-02	-8.75E-04	3.75E-04	1.00E-03	1.63E-03
1.40E-05	7.81E-03	2.41E-02	2.78E-02	-1.19E-03	-1.81E-03	-2.50E-04	2.56E-03
1.50E-05	1.06E-02	2.72E-02	2.97E-02	-8.75E-04	-5.63E-04	6.63E-03	3.75E-04

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
1.60E-05	1.22E-02	2.63E-02	2.59E-02	2.25E-03	-1.81E-03	-1.81E-03	2.56E-03
1.70E-05	1.06E-02	2.56E-02	3.00E-02	-1.81E-03	-8.75E-04	-5.63E-04	1.31E-03
1.80E-05	1.22E-02	2.63E-02	2.94E-02	-5.63E-04	-1.81E-03	-5.63E-04	6.88E-04
1.90E-05	1.19E-02	2.44E-02	3.00E-02	-8.75E-04	-8.75E-04	-5.63E-04	2.56E-03
2.00E-05	1.06E-02	2.41E-02	2.63E-02	-3.38E-03	-1.81E-03	1.31E-03	1.94E-03
2.10E-05	1.47E-02	2.63E-02	2.94E-02	3.75E-04	-2.50E-04	-2.13E-03	1.31E-03
2.20E-05	1.19E-02	2.44E-02	2.94E-02	3.75E-04	-1.19E-03	-5.63E-04	6.88E-04
2.30E-05	9.69E-03	2.69E-02	3.41E-02	-2.50E-04	-1.50E-03	1.00E-03	-8.75E-04
2.40E-05	1.09E-02	2.56E-02	2.94E-02	-5.63E-04	-2.13E-03	6.25E-05	1.63E-03
2.50E-05	1.28E-02	2.56E-02	2.84E-02	-5.63E-04	-2.50E-04	-8.75E-04	6.88E-04
2.60E-05	1.16E-02	2.38E-02	2.91E-02	-1.50E-03	-2.50E-04	-1.19E-03	3.75E-04
2.70E-05	1.03E-02	2.56E-02	2.81E-02	6.88E-04	1.00E-03	-2.50E-04	1.94E-03
2.80E-05	1.00E-02	2.50E-02	2.81E-02	6.25E-05	-1.50E-03	6.25E-05	2.25E-03
2.90E-05	9.06E-03	2.41E-02	2.88E-02	1.94E-03	3.75E-04	-2.50E-04	1.31E-03
3.00E-05	1.03E-02	2.47E-02	2.81E-02	6.25E-05	-2.50E-04	6.88E-04	1.31E-03
3.10E-05	1.03E-02	2.59E-02	2.88E-02	6.88E-04	3.75E-04	-1.19E-03	1.94E-03
3.20E-05	1.00E-02	2.75E-02	2.81E-02	3.75E-04	-2.13E-03	-8.75E-04	1.31E-03
3.30E-05	1.16E-02	2.38E-02	2.84E-02	6.88E-04	-2.44E-03	6.25E-05	3.75E-04
3.40E-05	1.22E-02	2.53E-02	3.03E-02	-3.06E-03	6.25E-05	1.94E-03	1.31E-03
3.50E-05	1.06E-02	2.38E-02	2.94E-02	-8.75E-04	-1.19E-03	-3.06E-03	1.31E-03
3.60E-05	1.00E-02	2.66E-02	2.94E-02	-1.81E-03	-1.19E-03	1.63E-03	1.63E-03
3.70E-05	1.16E-02	2.53E-02	2.88E-02	6.88E-04	6.88E-04	-5.63E-04	3.19E-03
3.80E-05	1.03E-02	2.44E-02	2.97E-02	-8.75E-04	-1.50E-03	-1.81E-03	4.44E-03
3.90E-05	1.25E-02	2.56E-02	2.81E-02	1.00E-03	3.75E-04	-2.13E-03	3.75E-04
4.00E-05	1.09E-02	2.44E-02	2.59E-02	-2.50E-04	-3.06E-03	-2.50E-04	1.31E-03
4.10E-05	9.06E-03	2.56E-02	2.72E-02	3.75E-04	6.88E-04	-2.50E-04	1.00E-03
4.20E-05	1.34E-02	2.63E-02	2.72E-02	-2.50E-04	-8.75E-04	-1.19E-03	1.31E-03
4.30E-05	1.19E-02	2.22E-02	2.91E-02	-5.63E-04	-8.75E-04	-2.44E-03	-2.50E-04
4.40E-05	8.44E-03	2.56E-02	2.91E-02	6.25E-05	-5.63E-04	6.25E-05	3.50E-03
4.50E-05	1.09E-02	2.41E-02	2.94E-02	-8.75E-04	-1.19E-03	-1.50E-03	2.25E-03
4.60E-05	1.13E-02	2.59E-02	2.84E-02	-1.19E-03	-8.75E-04	6.88E-04	6.25E-05
4.70E-05	1.09E-02	2.63E-02	2.81E-02	-1.50E-03	-1.81E-03	-2.50E-04	2.56E-03
4.80E-05	9.69E-03	2.34E-02	2.91E-02	6.88E-04	-2.13E-03	1.00E-03	-2.50E-04
4.90E-05	1.06E-02	2.56E-02	2.75E-02	-8.75E-04	6.25E-05	6.25E-05	1.00E-03
5.00E-05	9.06E-03	2.47E-02	2.88E-02	6.88E-04	-1.19E-03	-8.75E-04	1.63E-03
5.10E-05	1.28E-02	2.69E-02	2.91E-02	-1.50E-03	1.00E-03	-8.75E-04	2.88E-03
5.20E-05	1.06E-02	2.47E-02	2.66E-02	-2.75E-03	-1.50E-03	-1.50E-03	6.88E-04
5.30E-05	1.09E-02	2.34E-02	3.06E-02	-8.75E-04	-5.63E-04	1.31E-03	2.25E-03
5.40E-05	1.00E-02	2.59E-02	3.03E-02	-1.19E-03	-2.13E-03	-1.50E-03	5.38E-03
5.50E-05	1.09E-02	2.69E-02	2.78E-02	-1.50E-03	-1.81E-03	3.75E-04	2.56E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
5.60E-05	7.19E-03	2.41E-02	2.84E-02	3.75E-04	-1.19E-03	1.31E-03	1.31E-03
5.70E-05	1.19E-02	2.47E-02	2.91E-02	1.00E-03	-2.50E-04	6.88E-04	2.88E-03
5.80E-05	1.16E-02	2.63E-02	2.84E-02	-5.63E-04	-2.13E-03	1.00E-03	1.00E-03
5.90E-05	1.16E-02	2.78E-02	2.81E-02	1.31E-03	3.75E-04	-2.13E-03	-1.50E-03
6.00E-05	9.38E-03	2.34E-02	2.63E-02	-5.63E-04	-2.13E-03	3.75E-04	2.56E-03
6.10E-05	1.03E-02	2.47E-02	2.97E-02	6.88E-04	-8.75E-04	-1.50E-03	2.25E-03
6.20E-05	1.00E-02	2.38E-02	2.81E-02	-5.63E-04	-2.75E-03	-5.63E-04	1.31E-03
6.30E-05	1.06E-02	2.41E-02	2.75E-02	-1.19E-03	6.25E-05	-1.19E-03	1.63E-03
6.40E-05	1.13E-02	2.47E-02	2.88E-02	6.88E-04	-2.13E-03	-1.50E-03	-2.50E-04
6.50E-05	1.16E-02	2.41E-02	2.88E-02	-8.75E-04	-2.13E-03	1.94E-03	2.25E-03
6.60E-05	1.09E-02	2.47E-02	2.94E-02	-8.75E-04	-8.75E-04	-8.75E-04	1.31E-03
6.70E-05	8.75E-03	2.44E-02	2.81E-02	6.25E-05	-2.13E-03	3.75E-04	3.50E-03
6.80E-05	1.09E-02	2.41E-02	2.91E-02	-2.50E-04	-5.63E-04	-8.75E-04	3.75E-04
6.90E-05	1.19E-02	2.56E-02	2.81E-02	-1.19E-03	-2.50E-04	-1.50E-03	6.88E-04
7.00E-05	1.19E-02	2.47E-02	3.16E-02	-1.81E-03	-1.81E-03	-8.75E-04	1.94E-03
7.10E-05	1.09E-02	2.47E-02	2.56E-02	-1.81E-03	-2.13E-03	1.00E-03	1.63E-03
7.20E-05	1.03E-02	2.53E-02	2.88E-02	-8.75E-04	-1.50E-03	6.25E-05	-5.63E-04
7.30E-05	1.34E-02	2.59E-02	2.91E-02	-2.50E-04	-1.81E-03	1.31E-03	2.56E-03
7.40E-05	1.09E-02	2.47E-02	2.81E-02	-1.81E-03	6.88E-04	2.25E-03	6.88E-04
7.50E-05	1.19E-02	2.34E-02	3.06E-02	-2.50E-04	-8.75E-04	3.75E-04	1.63E-03
7.60E-05	1.03E-02	2.47E-02	2.91E-02	-2.13E-03	-1.50E-03	-1.81E-03	1.00E-03
7.70E-05	1.25E-02	2.44E-02	3.16E-02	-2.50E-04	-2.13E-03	-8.75E-04	2.25E-03
7.80E-05	1.00E-02	2.44E-02	3.06E-02	-2.50E-04	3.75E-04	6.88E-04	1.31E-03
7.90E-05	1.22E-02	2.59E-02	3.00E-02	6.25E-05	-5.63E-04	1.00E-03	1.00E-03
8.00E-05	1.19E-02	2.59E-02	2.84E-02	-2.50E-04	6.25E-05	-3.06E-03	1.94E-03
8.10E-05	1.25E-02	2.59E-02	2.81E-02	6.25E-05	-5.63E-04	3.75E-04	2.25E-03
8.20E-05	1.16E-02	2.44E-02	2.94E-02	1.94E-03	-1.50E-03	6.25E-05	2.88E-03
8.30E-05	1.03E-02	2.44E-02	2.75E-02	-2.50E-04	1.00E-03	-1.50E-03	1.94E-03
8.40E-05	8.75E-03	2.38E-02	2.81E-02	-8.75E-04	-1.81E-03	-3.69E-03	1.63E-03
8.50E-05	1.13E-02	2.66E-02	2.72E-02	3.75E-04	1.00E-03	-1.81E-03	3.75E-04
8.60E-05	8.13E-03	2.34E-02	3.00E-02	3.75E-04	3.75E-04	-2.44E-03	3.50E-03
8.70E-05	1.13E-02	2.50E-02	2.78E-02	-1.19E-03	-2.13E-03	-5.63E-04	1.31E-03
8.80E-05	9.06E-03	2.47E-02	2.94E-02	-1.19E-03	-2.13E-03	-1.50E-03	2.25E-03
8.90E-05	8.44E-03	2.38E-02	2.88E-02	6.25E-05	-2.13E-03	1.00E-03	2.25E-03
9.00E-05	9.38E-03	2.47E-02	2.72E-02	-2.50E-04	-8.75E-04	1.31E-03	3.19E-03
9.10E-05	1.00E-02	2.66E-02	2.75E-02	-5.63E-04	-2.13E-03	-5.63E-04	1.94E-03
9.20E-05	1.22E-02	2.59E-02	2.91E-02	6.88E-04	3.75E-04	-5.63E-04	6.25E-05
9.30E-05	1.31E-02	2.63E-02	2.69E-02	-1.81E-03	-2.44E-03	-5.63E-04	4.13E-03
9.40E-05	7.81E-03	2.44E-02	2.81E-02	1.63E-03	-1.81E-03	3.75E-04	1.94E-03
9.50E-05	1.00E-02	2.47E-02	2.91E-02	-5.63E-04	-1.50E-03	-2.50E-04	-1.19E-03

Continued on next page

Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
9.60E-05	1.00E-02	2.50E-02	2.75E-02	-8.75E-04	6.88E-04	3.75E-04	3.75E-04
9.70E-05	1.06E-02	2.63E-02	2.78E-02	-2.13E-03	-2.44E-03	-1.81E-03	1.00E-03
9.80E-05	9.38E-03	2.50E-02	3.00E-02	-5.63E-04	-2.50E-04	-5.63E-04	6.88E-04
9.90E-05	1.09E-02	2.69E-02	2.81E-02	3.75E-04	-2.75E-03	-2.50E-04	6.88E-04
1.00E-04	8.13E-03	2.59E-02	2.75E-02	-3.38E-03	6.88E-04	-1.50E-03	1.63E-03
1.01E-04	1.19E-02	2.44E-02	2.72E-02	-2.44E-03	-2.13E-03	6.25E-05	-5.63E-04
1.02E-04	9.69E-03	2.28E-02	2.97E-02	-1.81E-03	-1.19E-03	6.25E-05	1.31E-03
1.03E-04	1.19E-02	2.38E-02	2.91E-02	1.00E-03	-2.13E-03	-2.50E-04	2.25E-03
1.04E-04	9.38E-03	2.38E-02	2.94E-02	-1.19E-03	1.31E-03	3.75E-04	1.31E-03
1.05E-04	1.00E-02	2.56E-02	2.75E-02	-5.63E-04	-2.50E-04	6.25E-05	2.88E-03
1.06E-04	9.06E-03	2.41E-02	2.94E-02	-2.50E-04	-5.63E-04	3.75E-04	4.44E-03
1.07E-04	1.22E-02	2.66E-02	2.91E-02	-2.50E-04	6.25E-05	-1.50E-03	2.56E-03
1.08E-04	1.13E-02	2.53E-02	2.78E-02	-2.44E-03	-3.06E-03	-2.50E-04	1.63E-03
1.09E-04	1.09E-02	2.53E-02	2.56E-02	-1.50E-03	-2.75E-03	6.88E-04	2.25E-03
1.10E-04	1.03E-02	2.53E-02	2.84E-02	-5.63E-04	-2.50E-04	-2.50E-04	2.25E-03
1.11E-04	9.38E-03	2.38E-02	2.88E-02	-2.13E-03	6.25E-05	1.63E-03	1.63E-03
1.12E-04	9.69E-03	2.66E-02	2.88E-02	-1.50E-03	-1.19E-03	-1.19E-03	1.31E-03
1.13E-04	1.06E-02	2.53E-02	2.69E-02	6.25E-05	-1.81E-03	-1.19E-03	2.56E-03
1.14E-04	1.06E-02	2.63E-02	2.94E-02	-2.13E-03	6.25E-05	6.88E-04	6.88E-04
1.15E-04	1.03E-02	2.53E-02	2.66E-02	3.75E-04	-2.13E-03	-2.13E-03	4.44E-03
1.16E-04	1.03E-02	2.34E-02	2.81E-02	-2.50E-04	-2.75E-03	-2.50E-04	1.31E-03
1.17E-04	1.03E-02	2.59E-02	2.78E-02	-2.50E-04	-2.50E-04	3.75E-04	3.75E-04
1.18E-04	1.19E-02	2.19E-02	3.00E-02	-3.06E-03	-8.75E-04	-8.75E-04	2.25E-03
1.19E-04	1.13E-02	2.44E-02	2.72E-02	-2.13E-03	-2.75E-03	3.75E-04	1.94E-03
1.20E-04	1.09E-02	2.44E-02	2.97E-02	-5.63E-04	6.25E-05	6.88E-04	1.63E-03
1.21E-04	1.09E-02	2.53E-02	2.75E-02	-1.19E-03	-1.50E-03	3.75E-04	1.00E-03
1.22E-04	9.38E-03	2.78E-02	3.03E-02	-5.63E-04	-1.19E-03	-2.50E-04	-5.88E-03
1.23E-04	1.03E-02	2.44E-02	2.81E-02	-5.63E-04	-1.81E-03	-1.19E-03	1.31E-03
1.24E-04	1.19E-02	2.38E-02	2.97E-02	-1.19E-03	-5.63E-04	-2.50E-04	3.75E-04
1.25E-04	1.06E-02	2.75E-02	2.94E-02	-8.75E-04	-1.50E-03	-5.63E-04	1.63E-03
1.26E-04	1.03E-02	2.34E-02	2.72E-02	-5.63E-04	-3.06E-03	1.00E-03	1.00E-03
1.27E-04	9.69E-03	2.28E-02	2.91E-02	-2.50E-04	-1.81E-03	-5.63E-04	-8.75E-04
1.28E-04	1.06E-02	2.56E-02	2.91E-02	-1.19E-03	-8.75E-04	1.63E-03	6.25E-05
1.29E-04	1.34E-02	2.47E-02	2.94E-02	-1.81E-03	-1.81E-03	6.25E-05	6.88E-04
1.30E-04	1.31E-02	2.59E-02	2.94E-02	-8.75E-04	-1.50E-03	1.63E-03	3.81E-03
1.31E-04	1.03E-02	2.50E-02	2.84E-02	-2.50E-04	-1.19E-03	-1.19E-03	6.88E-04
1.32E-04	1.03E-02	2.38E-02	2.81E-02	-1.81E-03	3.75E-04	-2.50E-04	2.88E-03
1.33E-04	1.03E-02	2.47E-02	2.59E-02	3.75E-04	-1.19E-03	-8.75E-04	3.75E-04
1.34E-04	1.06E-02	2.44E-02	2.94E-02	-5.63E-04	-2.44E-03	6.88E-04	3.19E-03
1.35E-04	1.09E-02	3.06E-02	2.78E-02	-1.19E-03	6.88E-04	-5.63E-04	1.31E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
1.36E-04	8.75E-03	2.47E-02	2.81E-02	3.75E-04	-1.19E-03	1.63E-03	1.00E-03
1.37E-04	1.16E-02	2.63E-02	2.84E-02	-1.50E-03	-8.75E-04	-2.50E-04	6.88E-04
1.38E-04	9.69E-03	2.50E-02	2.94E-02	-1.19E-03	3.75E-04	-3.38E-03	-2.50E-04
1.39E-04	1.16E-02	2.63E-02	2.72E-02	6.25E-05	-2.44E-03	-1.50E-03	2.56E-03
1.40E-04	1.00E-02	2.53E-02	2.75E-02	6.25E-05	-1.81E-03	6.88E-04	2.25E-03
1.41E-04	1.06E-02	2.44E-02	2.81E-02	-2.50E-04	6.88E-04	-1.50E-03	1.31E-03
1.42E-04	1.25E-02	2.53E-02	3.06E-02	-1.50E-03	-8.75E-04	-1.81E-03	2.56E-03
1.43E-04	1.13E-02	2.53E-02	2.84E-02	-5.63E-04	3.75E-04	-2.13E-03	1.00E-03
1.44E-04	1.00E-02	2.53E-02	2.97E-02	-2.50E-04	-8.75E-04	3.75E-04	1.63E-03
1.45E-04	1.03E-02	2.56E-02	3.25E-02	-1.19E-03	-1.81E-03	1.00E-03	3.75E-04
1.46E-04	9.38E-03	2.69E-02	3.13E-02	3.75E-04	-5.63E-04	-2.13E-03	1.00E-03
1.47E-04	9.69E-03	2.59E-02	2.91E-02	-3.06E-03	6.25E-05	-1.19E-03	2.88E-03
1.48E-04	9.38E-03	2.41E-02	2.75E-02	-5.63E-04	-5.63E-04	3.75E-04	3.75E-04
1.49E-04	9.38E-03	2.50E-02	3.00E-02	-2.50E-04	3.75E-04	6.25E-05	3.81E-03
1.50E-04	9.06E-03	2.53E-02	2.91E-02	6.25E-05	-2.44E-03	-5.63E-04	1.00E-03
1.51E-04	9.38E-03	2.44E-02	2.78E-02	6.25E-05	-2.13E-03	-5.63E-04	-5.63E-04
1.52E-04	9.38E-03	2.72E-02	2.94E-02	-2.50E-04	-2.50E-04	1.00E-03	2.25E-03
1.53E-04	1.19E-02	2.31E-02	2.97E-02	-8.75E-04	-1.50E-03	6.88E-04	1.94E-03
1.54E-04	1.06E-02	2.63E-02	3.00E-02	-1.50E-03	-2.13E-03	6.25E-05	1.94E-03
1.55E-04	1.09E-02	2.63E-02	2.75E-02	-2.50E-04	-1.50E-03	-1.81E-03	1.31E-03
1.56E-04	1.16E-02	2.47E-02	2.81E-02	-1.81E-03	-1.19E-03	6.25E-05	1.63E-03
1.57E-04	1.25E-02	2.63E-02	2.94E-02	1.00E-03	-1.50E-03	6.25E-05	6.88E-04
1.58E-04	1.03E-02	2.59E-02	2.84E-02	-1.50E-03	1.63E-03	1.63E-03	6.88E-04
1.59E-04	1.16E-02	2.53E-02	2.78E-02	-5.63E-04	3.75E-04	-1.19E-03	2.56E-03
1.60E-04	1.91E-02	2.31E-02	2.63E-02	6.88E-04	-5.63E-04	-1.50E-03	3.50E-03
1.61E-04	1.22E-02	2.53E-02	3.00E-02	-2.44E-03	-1.81E-03	-2.13E-03	3.75E-04
1.62E-04	1.13E-02	2.56E-02	2.88E-02	-2.50E-04	-5.63E-04	-5.63E-04	2.88E-03
1.63E-04	1.13E-02	2.59E-02	2.88E-02	-1.19E-03	-1.81E-03	-2.13E-03	3.50E-03
1.64E-04	8.13E-03	2.47E-02	2.66E-02	-2.75E-03	-2.50E-04	-8.75E-04	1.63E-03
1.65E-04	1.13E-02	2.50E-02	3.00E-02	6.25E-05	-2.50E-04	3.75E-04	6.88E-04
1.66E-04	1.09E-02	2.47E-02	2.94E-02	3.75E-04	-2.13E-03	-1.50E-03	2.25E-03
1.67E-04	1.09E-02	2.50E-02	2.81E-02	1.00E-03	-2.13E-03	-2.50E-04	1.00E-03
1.68E-04	1.06E-02	2.38E-02	2.81E-02	-2.75E-03	6.88E-04	-1.50E-03	1.94E-03
1.69E-04	1.03E-02	2.25E-02	3.03E-02	3.75E-04	-1.50E-03	-1.19E-03	1.63E-03
1.70E-04	1.09E-02	2.84E-02	2.88E-02	-1.81E-03	-8.75E-04	6.25E-05	3.81E-03
1.71E-04	1.13E-02	2.47E-02	2.94E-02	-1.81E-03	-2.50E-04	-1.19E-03	3.19E-03
1.72E-04	9.38E-03	2.66E-02	2.81E-02	1.00E-03	-1.81E-03	-1.50E-03	2.88E-03
1.73E-04	1.00E-02	2.50E-02	2.78E-02	6.25E-05	-2.50E-04	-2.13E-03	1.31E-03
1.74E-04	1.16E-02	2.41E-02	2.97E-02	2.56E-03	6.25E-05	-1.19E-03	1.00E-03
1.75E-04	1.06E-02	2.53E-02	2.84E-02	-2.50E-04	-2.50E-04	6.25E-05	6.25E-05

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
1.76E-04	1.06E-02	2.38E-02	2.88E-02	1.94E-03	3.75E-04	-2.13E-03	2.25E-03
1.77E-04	1.25E-02	2.53E-02	3.09E-02	3.75E-04	-1.81E-03	-2.50E-04	6.88E-04
1.78E-04	1.00E-02	2.63E-02	3.00E-02	-2.50E-04	-2.44E-03	6.25E-05	2.25E-03
1.79E-04	1.22E-02	2.44E-02	2.81E-02	-8.75E-04	3.50E-03	-5.63E-04	1.63E-03
1.80E-04	9.69E-03	2.53E-02	2.97E-02	3.75E-04	-2.13E-03	-2.13E-03	2.25E-03
1.81E-04	9.06E-03	2.59E-02	2.94E-02	-2.13E-03	-1.50E-03	-1.50E-03	2.56E-03
1.82E-04	1.03E-02	2.56E-02	2.94E-02	6.88E-04	-1.19E-03	-1.50E-03	1.63E-03
1.83E-04	1.06E-02	2.47E-02	2.84E-02	-5.63E-04	-1.19E-03	-8.75E-04	2.56E-03
1.84E-04	1.19E-02	2.59E-02	2.75E-02	-8.75E-04	-3.06E-03	6.88E-04	-5.63E-04
1.85E-04	1.06E-02	2.53E-02	2.75E-02	-2.44E-03	-1.50E-03	6.25E-05	1.94E-03
1.86E-04	9.69E-03	2.63E-02	2.81E-02	1.00E-03	1.00E-03	-1.19E-03	2.25E-03
1.87E-04	9.69E-03	2.78E-02	2.88E-02	-2.13E-03	-2.13E-03	6.88E-04	3.19E-03
1.88E-04	1.28E-02	2.41E-02	2.78E-02	-2.44E-03	-1.81E-03	-2.13E-03	6.25E-05
1.89E-04	8.13E-03	2.59E-02	2.91E-02	-1.50E-03	-1.50E-03	-5.63E-04	2.25E-03
1.90E-04	1.22E-02	2.47E-02	3.03E-02	6.25E-05	-2.50E-04	1.31E-03	1.00E-03
1.91E-04	1.19E-02	2.25E-02	2.88E-02	-1.19E-03	-2.13E-03	-2.50E-04	1.00E-03
1.92E-04	1.00E-02	2.47E-02	3.00E-02	-2.44E-03	-5.63E-04	6.25E-05	2.25E-03
1.93E-04	1.09E-02	2.50E-02	3.22E-02	-5.63E-04	-8.75E-04	-2.50E-04	1.31E-03
1.94E-04	9.38E-03	2.66E-02	2.69E-02	-8.75E-04	-1.81E-03	-8.75E-04	1.63E-03
1.95E-04	1.25E-02	2.66E-02	3.03E-02	-1.19E-03	-8.75E-04	-2.13E-03	1.63E-03
1.96E-04	1.09E-02	2.50E-02	2.75E-02	-5.63E-04	-1.19E-03	-1.50E-03	2.56E-03
1.97E-04	1.16E-02	2.34E-02	2.88E-02	1.94E-03	-8.75E-04	-8.75E-04	1.00E-03
1.98E-04	1.19E-02	2.41E-02	2.81E-02	1.31E-03	-8.75E-04	-5.63E-04	6.25E-05
1.99E-04	1.13E-02	2.63E-02	2.91E-02	-3.38E-03	-5.63E-04	-5.63E-04	1.63E-03
2.00E-04	1.13E-02	2.63E-02	2.28E-02	-8.75E-04	-8.75E-04	3.75E-04	1.00E-03
2.01E-04	1.03E-02	2.34E-02	2.94E-02	1.94E-03	1.31E-03	-8.75E-04	2.56E-03
2.02E-04	1.09E-02	2.53E-02	2.81E-02	3.75E-04	-2.50E-04	6.88E-04	6.88E-04
2.03E-04	1.00E-02	2.47E-02	2.78E-02	-2.13E-03	-1.50E-03	-1.19E-03	2.25E-03
2.04E-04	1.03E-02	2.50E-02	3.09E-02	-1.50E-03	-2.50E-04	-1.19E-03	1.31E-03
2.05E-04	1.03E-02	2.31E-02	2.81E-02	6.25E-05	-2.13E-03	6.88E-04	3.19E-03
2.06E-04	1.16E-02	2.59E-02	2.78E-02	-1.19E-03	-2.13E-03	-1.81E-03	6.88E-04
2.07E-04	1.03E-02	2.44E-02	2.75E-02	-2.44E-03	-2.50E-04	-1.19E-03	1.31E-03
2.08E-04	1.03E-02	2.66E-02	3.00E-02	-8.75E-04	-2.44E-03	-1.19E-03	2.88E-03
2.09E-04	1.25E-02	2.56E-02	2.94E-02	-2.50E-04	-3.06E-03	-3.06E-03	2.56E-03
2.10E-04	1.16E-02	2.59E-02	2.91E-02	-1.19E-03	-1.19E-03	-5.63E-04	1.94E-03
2.11E-04	1.03E-02	2.47E-02	2.91E-02	-2.50E-04	1.63E-03	6.25E-05	1.94E-03
2.12E-04	1.03E-02	2.44E-02	2.94E-02	-5.63E-04	-5.63E-04	-8.75E-04	2.25E-03
2.13E-04	1.22E-02	2.50E-02	2.84E-02	-8.75E-04	-8.75E-04	6.88E-04	6.88E-04
2.14E-04	1.22E-02	2.50E-02	2.88E-02	-5.63E-04	-2.50E-04	-8.75E-04	1.63E-03
2.15E-04	1.19E-02	2.41E-02	2.94E-02	3.75E-04	-5.63E-04	-2.13E-03	2.56E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
2.16E-04	1.03E-02	2.56E-02	2.78E-02	-1.19E-03	6.25E-05	-2.50E-04	3.19E-03
2.17E-04	1.00E-02	2.72E-02	2.94E-02	-2.44E-03	-3.06E-03	-2.50E-04	3.19E-03
2.18E-04	1.09E-02	2.69E-02	3.00E-02	-8.75E-04	-2.75E-03	6.88E-04	1.31E-03
2.19E-04	1.13E-02	2.50E-02	2.75E-02	3.75E-04	-2.50E-04	-3.38E-03	6.88E-04
2.20E-04	1.16E-02	2.56E-02	3.00E-02	6.25E-05	1.00E-03	1.00E-03	3.50E-03
2.21E-04	1.00E-02	2.44E-02	3.00E-02	3.75E-04	-1.50E-03	6.25E-05	-8.75E-04
2.22E-04	8.75E-03	2.31E-02	2.88E-02	-5.63E-04	-1.19E-03	1.00E-03	2.25E-03
2.23E-04	1.06E-02	2.59E-02	3.00E-02	-1.81E-03	-5.63E-04	1.00E-03	3.81E-03
2.24E-04	1.22E-02	2.44E-02	3.13E-02	-1.50E-03	1.63E-03	-5.63E-04	1.94E-03
2.25E-04	9.38E-03	2.41E-02	2.94E-02	-2.50E-04	-5.63E-04	3.75E-04	6.25E-05
2.26E-04	1.16E-02	2.75E-02	2.91E-02	-2.50E-04	-2.44E-03	-8.75E-04	3.75E-04
2.27E-04	1.25E-02	2.41E-02	3.09E-02	-1.50E-03	-8.75E-04	-2.50E-04	3.81E-03
2.28E-04	1.00E-02	2.63E-02	2.94E-02	-2.50E-04	-2.44E-03	1.00E-03	1.63E-03
2.29E-04	8.75E-03	2.44E-02	2.88E-02	6.88E-04	-1.50E-03	6.25E-05	-2.50E-04
2.30E-04	9.38E-03	2.06E-02	2.81E-02	-2.50E-04	-1.19E-03	-2.50E-04	1.94E-03
2.31E-04	1.19E-02	2.41E-02	3.06E-02	3.75E-04	-5.63E-04	1.00E-03	2.88E-03
2.32E-04	1.16E-02	2.63E-02	2.97E-02	6.25E-05	1.31E-03	1.31E-03	1.63E-03
2.33E-04	1.16E-02	2.38E-02	2.69E-02	3.75E-04	-2.75E-03	-5.63E-04	2.25E-03
2.34E-04	9.69E-03	2.75E-02	3.13E-02	-1.81E-03	-1.19E-03	-8.75E-04	-2.50E-04
2.35E-04	7.81E-03	2.38E-02	2.81E-02	-2.75E-03	-2.44E-03	-8.75E-04	2.88E-03
2.36E-04	7.81E-03	2.47E-02	2.72E-02	-5.63E-04	-1.50E-03	3.75E-04	3.50E-03
2.37E-04	1.03E-02	2.53E-02	2.94E-02	-1.50E-03	-1.50E-03	1.31E-03	2.25E-03
2.38E-04	9.06E-03	2.66E-02	2.97E-02	6.88E-04	-1.19E-03	-1.50E-03	1.31E-03
2.39E-04	1.09E-02	2.47E-02	2.91E-02	-8.75E-04	-5.63E-04	-1.81E-03	5.06E-03
2.40E-04	1.00E-02	2.56E-02	2.91E-02	-8.75E-04	-2.44E-03	-5.63E-04	1.31E-03
2.41E-04	9.06E-03	2.47E-02	3.03E-02	-8.75E-04	-2.44E-03	-1.19E-03	2.56E-03
2.42E-04	1.22E-02	2.41E-02	2.84E-02	-5.63E-04	1.00E-03	6.25E-05	2.25E-03
2.43E-04	9.69E-03	2.53E-02	2.81E-02	6.88E-04	3.75E-04	3.75E-04	1.31E-03
2.44E-04	1.06E-02	2.44E-02	2.75E-02	-2.50E-04	-2.13E-03	-1.19E-03	2.88E-03
2.45E-04	1.09E-02	2.78E-02	2.84E-02	-1.50E-03	-1.81E-03	1.00E-03	3.19E-03
2.46E-04	1.81E-02	2.38E-02	2.97E-02	-1.81E-03	-2.50E-04	1.31E-03	2.56E-03
2.47E-04	8.75E-03	2.63E-02	2.91E-02	-1.19E-03	-1.81E-03	-8.75E-04	6.88E-04
2.48E-04	1.19E-02	2.50E-02	2.84E-02	-1.19E-03	-1.19E-03	-8.75E-04	2.25E-03
2.49E-04	1.16E-02	2.41E-02	3.16E-02	-8.75E-04	-5.63E-04	-1.81E-03	-1.19E-03
2.50E-04	1.25E-02	2.53E-02	2.84E-02	-8.75E-04	-2.44E-03	-2.50E-04	1.94E-03
2.51E-04	7.81E-03	2.38E-02	3.00E-02	1.00E-03	6.25E-05	6.25E-05	3.19E-03
2.52E-04	8.13E-03	2.56E-02	2.94E-02	-2.50E-04	1.63E-03	-1.81E-03	-5.63E-04
2.53E-04	1.19E-02	2.41E-02	2.78E-02	-8.75E-04	-1.50E-03	-8.75E-04	3.75E-04
2.54E-04	1.16E-02	2.50E-02	3.16E-02	-1.50E-03	-1.50E-03	1.31E-03	1.31E-03
2.55E-04	8.75E-03	2.44E-02	2.91E-02	-5.63E-04	-3.06E-03	2.88E-03	2.88E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
2.56E-04	1.00E-02	2.59E-02	3.00E-02	-2.50E-04	6.25E-05	-2.13E-03	-5.63E-04
2.57E-04	1.06E-02	2.38E-02	3.00E-02	-1.50E-03	1.31E-03	-2.50E-04	1.63E-03
2.58E-04	1.13E-02	2.78E-02	2.88E-02	-2.50E-04	-1.81E-03	6.88E-04	3.50E-03
2.59E-04	1.09E-02	2.47E-02	3.00E-02	-1.19E-03	-8.75E-04	-2.50E-04	2.25E-03
2.60E-04	8.75E-03	2.47E-02	3.03E-02	-8.75E-04	-1.19E-03	-8.75E-04	3.75E-04
2.61E-04	8.75E-03	2.50E-02	2.88E-02	1.63E-03	-8.75E-04	-8.75E-04	1.94E-03
2.62E-04	9.69E-03	2.31E-02	3.06E-02	-5.63E-04	3.75E-04	3.75E-04	2.56E-03
2.63E-04	1.16E-02	2.47E-02	2.94E-02	-1.19E-03	-8.75E-04	3.75E-04	4.44E-03
2.64E-04	1.06E-02	2.47E-02	2.84E-02	-1.50E-03	-1.19E-03	-5.63E-04	3.19E-03
2.65E-04	7.81E-03	2.41E-02	2.84E-02	-1.19E-03	-2.44E-03	3.75E-04	1.63E-03
2.66E-04	1.03E-02	2.59E-02	3.22E-02	-1.81E-03	-1.19E-03	1.00E-03	2.25E-03
2.67E-04	9.38E-03	2.72E-02	3.00E-02	3.75E-04	6.88E-04	3.75E-04	1.63E-03
2.68E-04	1.16E-02	2.53E-02	3.06E-02	-3.69E-03	-2.44E-03	-2.44E-03	2.56E-03
2.69E-04	8.75E-03	2.63E-02	2.97E-02	-2.50E-04	-1.81E-03	-1.19E-03	2.25E-03
2.70E-04	1.06E-02	2.44E-02	2.78E-02	3.75E-04	-8.75E-04	-8.75E-04	1.63E-03
2.71E-04	9.06E-03	2.59E-02	3.03E-02	6.25E-05	-1.50E-03	-1.50E-03	6.88E-04
2.72E-04	9.38E-03	2.56E-02	2.75E-02	1.00E-03	-1.19E-03	-2.50E-04	1.94E-03
2.73E-04	9.38E-03	2.53E-02	3.00E-02	-2.50E-04	-1.19E-03	-5.63E-04	3.75E-04
2.74E-04	1.16E-02	2.56E-02	2.94E-02	-1.50E-03	-5.63E-04	3.75E-04	2.25E-03
2.75E-04	1.16E-02	2.47E-02	2.94E-02	-1.81E-03	-1.50E-03	1.31E-03	6.88E-04
2.76E-04	1.09E-02	2.44E-02	2.91E-02	-1.19E-03	-1.50E-03	-1.19E-03	1.63E-03
2.77E-04	9.38E-03	2.38E-02	2.75E-02	-1.19E-03	-3.38E-03	1.00E-03	6.88E-04
2.78E-04	1.22E-02	2.53E-02	3.00E-02	1.94E-03	-2.44E-03	-8.75E-04	6.88E-04
2.79E-04	1.06E-02	2.44E-02	3.00E-02	6.25E-05	-5.63E-04	-3.06E-03	2.56E-03
2.80E-04	1.09E-02	2.69E-02	2.91E-02	-5.63E-04	-3.38E-03	6.25E-05	2.25E-03
2.81E-04	1.28E-02	2.75E-02	2.84E-02	1.00E-03	-2.50E-04	-5.63E-04	2.56E-03
2.82E-04	1.22E-02	2.47E-02	2.94E-02	-3.69E-03	-5.63E-04	6.88E-04	6.25E-05
2.83E-04	1.22E-02	2.31E-02	2.91E-02	-8.75E-04	-8.75E-04	-8.75E-04	1.31E-03
2.84E-04	1.16E-02	2.69E-02	2.97E-02	-5.63E-04	-5.63E-04	6.25E-05	2.88E-03
2.85E-04	1.09E-02	2.69E-02	2.75E-02	-2.50E-04	6.25E-05	-2.13E-03	6.25E-05
2.86E-04	9.69E-03	2.44E-02	2.97E-02	-3.38E-03	-1.81E-03	6.25E-05	1.63E-03
2.87E-04	1.09E-02	2.50E-02	2.88E-02	-5.63E-04	-1.50E-03	1.31E-03	1.63E-03
2.88E-04	1.19E-02	2.56E-02	2.94E-02	-3.38E-03	-8.75E-04	-1.81E-03	1.31E-03
2.89E-04	1.09E-02	2.53E-02	2.88E-02	-1.81E-03	-1.19E-03	-1.50E-03	2.88E-03
2.90E-04	1.06E-02	2.47E-02	2.88E-02	-2.50E-04	6.25E-05	-2.50E-04	3.50E-03
2.91E-04	1.28E-02	2.66E-02	2.81E-02	3.75E-04	3.75E-04	-1.19E-03	4.13E-03
2.92E-04	1.16E-02	2.44E-02	2.72E-02	-2.13E-03	-1.50E-03	-8.75E-04	-5.63E-04
2.93E-04	9.38E-03	2.38E-02	2.91E-02	-3.06E-03	-8.75E-04	1.00E-03	6.25E-05
2.94E-04	1.06E-02	2.50E-02	3.09E-02	6.25E-05	-1.19E-03	6.25E-05	3.75E-04
2.95E-04	1.00E-02	2.41E-02	3.19E-02	1.00E-03	-1.19E-03	-5.63E-04	1.63E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
2.96E-04	1.06E-02	2.47E-02	2.91E-02	-2.13E-03	-5.63E-04	1.31E-03	1.00E-03
2.97E-04	1.03E-02	2.53E-02	2.88E-02	-8.75E-04	-2.13E-03	-2.50E-04	3.50E-03
2.98E-04	1.38E-02	2.47E-02	2.97E-02	-2.75E-03	6.25E-05	3.75E-04	1.63E-03
2.99E-04	1.09E-02	2.41E-02	2.81E-02	-1.19E-03	-3.69E-03	-8.75E-04	3.19E-03
3.00E-04	1.09E-02	2.47E-02	2.97E-02	6.88E-04	-2.50E-04	3.75E-04	-2.50E-04
3.01E-04	1.13E-02	2.94E-02	2.94E-02	-2.50E-04	-2.44E-03	-4.94E-03	3.50E-03
3.02E-04	1.09E-02	2.47E-02	2.94E-02	6.88E-04	-1.50E-03	-2.50E-04	1.00E-03
3.03E-04	1.00E-02	2.41E-02	3.06E-02	-1.19E-03	-1.19E-03	-1.19E-03	1.31E-03
3.04E-04	1.31E-02	2.41E-02	2.84E-02	-8.75E-04	3.75E-04	1.94E-03	1.31E-03
3.05E-04	1.06E-02	2.44E-02	3.03E-02	1.31E-03	-2.50E-04	3.75E-04	6.88E-04
3.06E-04	1.16E-02	2.41E-02	3.06E-02	6.88E-04	-1.81E-03	-1.50E-03	1.94E-03
3.07E-04	1.16E-02	2.59E-02	3.13E-02	1.63E-03	-1.81E-03	3.75E-04	1.63E-03
3.08E-04	1.03E-02	2.59E-02	2.91E-02	-8.75E-04	-2.44E-03	6.88E-04	1.63E-03
3.09E-04	1.19E-02	2.66E-02	2.81E-02	1.63E-03	-5.63E-04	-8.75E-04	2.25E-03
3.10E-04	1.06E-02	2.63E-02	3.13E-02	-1.81E-03	2.56E-03	3.75E-04	6.25E-05
3.11E-04	1.28E-02	2.97E-02	2.72E-02	-1.81E-03	-5.63E-04	-2.50E-04	6.88E-04
3.12E-04	9.06E-03	2.66E-02	2.91E-02	-3.06E-03	1.00E-03	6.25E-05	3.75E-04
3.13E-04	1.22E-02	2.22E-02	2.72E-02	6.25E-05	-5.63E-04	-1.19E-03	1.00E-03
3.14E-04	1.16E-02	2.78E-02	2.75E-02	-5.63E-04	-5.63E-04	1.00E-03	2.25E-03
3.15E-04	4.06E-03	2.59E-02	2.81E-02	-4.00E-03	-1.19E-03	-5.63E-04	-2.50E-04
3.16E-04	1.09E-02	2.25E-02	2.78E-02	-2.50E-04	6.25E-05	2.56E-03	3.19E-03
3.17E-04	1.16E-02	2.59E-02	2.91E-02	6.25E-05	-5.63E-04	-2.13E-03	1.94E-03
3.18E-04	9.69E-03	2.53E-02	3.03E-02	-1.50E-03	-2.13E-03	1.63E-03	1.00E-03
3.19E-04	1.31E-02	2.56E-02	2.94E-02	-1.81E-03	-5.63E-04	-8.75E-04	3.75E-04
3.20E-04	1.09E-02	2.63E-02	3.06E-02	6.25E-05	-1.50E-03	-1.19E-03	3.19E-03
3.21E-04	1.13E-02	2.47E-02	2.91E-02	3.75E-04	-5.63E-04	3.75E-04	-1.81E-03
3.22E-04	1.06E-02	2.47E-02	2.75E-02	-2.50E-04	6.88E-04	6.88E-04	2.25E-03
3.23E-04	1.00E-02	2.50E-02	2.94E-02	-1.50E-03	-5.63E-04	6.25E-05	2.25E-03
3.24E-04	9.06E-03	2.41E-02	3.00E-02	3.75E-04	-2.13E-03	-8.75E-04	6.88E-04
3.25E-04	1.13E-02	2.56E-02	2.84E-02	6.25E-05	1.00E-03	-5.63E-04	1.00E-03
3.26E-04	1.16E-02	2.41E-02	2.84E-02	-8.75E-04	-5.63E-04	-5.63E-04	3.19E-03
3.27E-04	1.19E-02	2.41E-02	3.03E-02	-1.81E-03	6.88E-04	1.31E-03	3.75E-04
3.28E-04	1.09E-02	2.31E-02	2.75E-02	1.31E-03	1.31E-03	-1.19E-03	3.50E-03
3.29E-04	1.06E-02	2.56E-02	2.69E-02	6.25E-05	-1.81E-03	-2.50E-04	2.25E-03
3.30E-04	1.16E-02	2.34E-02	2.94E-02	6.25E-05	6.88E-04	5.38E-03	2.25E-03
3.31E-04	9.69E-03	2.59E-02	3.00E-02	1.63E-03	-5.63E-04	6.88E-04	1.63E-03
3.32E-04	9.06E-03	2.63E-02	2.94E-02	-8.75E-04	6.88E-04	-1.50E-03	6.25E-05
3.33E-04	1.16E-02	2.34E-02	3.09E-02	6.25E-05	-2.50E-04	-1.81E-03	1.31E-03
3.34E-04	1.16E-02	2.56E-02	3.06E-02	-1.50E-03	-1.19E-03	-1.81E-03	2.88E-03
3.35E-04	1.06E-02	2.47E-02	2.88E-02	3.75E-04	-1.19E-03	6.25E-05	3.75E-04

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
3.36E-04	1.13E-02	2.59E-02	2.91E-02	-2.50E-04	-1.81E-03	6.25E-05	1.31E-03
3.37E-04	1.13E-02	2.41E-02	2.84E-02	-3.38E-03	-2.50E-04	-5.63E-04	2.25E-03
3.38E-04	1.16E-02	2.47E-02	2.81E-02	-8.75E-04	-1.81E-03	-1.50E-03	-5.63E-04
3.39E-04	1.06E-02	2.44E-02	3.03E-02	-5.63E-04	-2.13E-03	-1.81E-03	2.25E-03
3.40E-04	1.16E-02	2.63E-02	2.72E-02	6.25E-05	-5.63E-04	6.25E-05	1.94E-03
3.41E-04	1.16E-02	2.63E-02	2.84E-02	-1.81E-03	6.88E-04	-1.50E-03	2.56E-03
3.42E-04	8.75E-03	2.47E-02	2.84E-02	-1.50E-03	-8.75E-04	1.31E-03	3.50E-03
3.43E-04	1.03E-02	2.50E-02	2.63E-02	-2.50E-04	-2.44E-03	6.25E-05	4.44E-03
3.44E-04	1.31E-02	2.56E-02	2.59E-02	-8.75E-04	-1.50E-03	3.75E-04	3.19E-03
3.45E-04	1.34E-02	2.47E-02	2.91E-02	-1.19E-03	-1.50E-03	-2.50E-04	2.25E-03
3.46E-04	1.00E-02	2.47E-02	2.84E-02	-2.44E-03	1.31E-03	1.63E-03	6.25E-05
3.47E-04	1.09E-02	2.34E-02	2.88E-02	-1.19E-03	-1.50E-03	-8.75E-04	1.94E-03
3.48E-04	1.22E-02	2.41E-02	3.00E-02	-1.19E-03	-5.63E-04	1.63E-03	2.25E-03
3.49E-04	1.00E-02	2.38E-02	3.03E-02	-4.00E-03	-5.63E-04	6.25E-05	3.75E-04
3.50E-04	1.06E-02	2.34E-02	2.81E-02	6.88E-04	6.88E-04	-1.19E-03	1.94E-03
3.51E-04	1.25E-02	2.38E-02	3.03E-02	-1.50E-03	-1.81E-03	3.75E-04	1.63E-03
3.52E-04	1.06E-02	2.47E-02	2.91E-02	-2.75E-03	-2.50E-04	-1.50E-03	2.56E-03
3.53E-04	9.38E-03	2.25E-02	2.81E-02	-1.50E-03	6.88E-04	-5.63E-04	2.25E-03
3.54E-04	1.00E-02	2.31E-02	3.03E-02	-2.50E-04	-2.44E-03	-8.75E-04	1.63E-03
3.55E-04	1.06E-02	2.44E-02	3.09E-02	-1.19E-03	-8.75E-04	-2.50E-04	1.00E-03
3.56E-04	9.69E-03	2.31E-02	2.81E-02	-1.81E-03	-2.50E-04	6.25E-05	-2.50E-04
3.57E-04	8.44E-03	2.47E-02	2.75E-02	-2.44E-03	-1.81E-03	3.75E-04	3.81E-03
3.58E-04	1.06E-02	2.53E-02	2.59E-02	6.25E-05	-8.75E-04	6.25E-05	6.88E-04
3.59E-04	8.75E-03	2.59E-02	2.88E-02	-5.63E-04	-2.75E-03	-2.44E-03	2.56E-03
3.60E-04	1.22E-02	2.66E-02	2.94E-02	1.63E-03	-2.13E-03	3.75E-04	6.88E-04
3.61E-04	7.81E-03	2.50E-02	3.03E-02	-8.75E-04	-5.63E-04	1.63E-03	6.88E-04
3.62E-04	1.09E-02	2.41E-02	3.09E-02	-2.50E-04	1.31E-03	-1.50E-03	1.63E-03
3.63E-04	1.16E-02	2.59E-02	3.13E-02	-1.81E-03	-5.63E-04	3.75E-04	2.25E-03
3.64E-04	1.03E-02	2.56E-02	2.78E-02	-1.50E-03	-2.44E-03	-1.19E-03	1.31E-03
3.65E-04	1.03E-02	2.38E-02	2.97E-02	-1.50E-03	-1.19E-03	-2.13E-03	-8.75E-04
3.66E-04	1.16E-02	2.53E-02	2.75E-02	-1.81E-03	3.75E-04	-2.50E-04	3.75E-04
3.67E-04	8.13E-03	2.47E-02	2.81E-02	-2.75E-03	1.31E-03	1.00E-03	-8.75E-04
3.68E-04	1.00E-02	2.53E-02	2.75E-02	6.25E-05	-2.13E-03	-1.50E-03	1.63E-03
3.69E-04	7.81E-03	2.56E-02	3.03E-02	-2.44E-03	6.88E-04	3.75E-04	3.19E-03
3.70E-04	1.00E-02	2.69E-02	3.00E-02	-1.19E-03	-2.13E-03	-5.63E-04	1.31E-03
3.71E-04	1.09E-02	2.72E-02	2.94E-02	-1.50E-03	6.88E-04	-1.81E-03	6.88E-04
3.72E-04	1.03E-02	2.78E-02	2.72E-02	2.25E-03	-1.19E-03	-1.50E-03	3.75E-04
3.73E-04	1.06E-02	2.50E-02	2.84E-02	6.25E-05	-5.63E-04	1.00E-03	3.19E-03
3.74E-04	1.00E-02	2.56E-02	2.97E-02	-2.50E-04	-8.75E-04	-2.50E-04	1.31E-03
3.75E-04	1.16E-02	2.53E-02	2.56E-02	-1.81E-03	-2.44E-03	3.75E-04	6.88E-04

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
3.76E-04	1.16E-02	2.38E-02	3.06E-02	-1.50E-03	-8.75E-04	1.31E-03	2.25E-03
3.77E-04	1.03E-02	2.59E-02	2.97E-02	-1.81E-03	-2.44E-03	6.88E-04	3.50E-03
3.78E-04	1.09E-02	2.59E-02	3.13E-02	-8.75E-04	-8.75E-04	3.75E-04	6.25E-05
3.79E-04	9.69E-03	2.44E-02	3.09E-02	-1.19E-03	-2.75E-03	6.88E-04	-5.63E-04
3.80E-04	1.19E-02	2.66E-02	3.13E-02	-2.50E-04	-8.75E-04	6.88E-04	2.25E-03
3.81E-04	1.06E-02	2.66E-02	2.78E-02	-1.50E-03	-8.75E-04	-5.63E-04	3.81E-03
3.82E-04	1.06E-02	2.34E-02	2.94E-02	-5.63E-04	-1.19E-03	-1.50E-03	6.88E-04
3.83E-04	1.34E-02	2.66E-02	2.84E-02	-8.75E-04	-1.50E-03	-1.81E-03	-1.81E-03
3.84E-04	1.13E-02	2.53E-02	2.63E-02	-5.63E-04	-3.06E-03	-2.50E-04	1.63E-03
3.85E-04	1.13E-02	2.47E-02	3.03E-02	6.25E-05	-8.75E-04	-1.50E-03	1.31E-03
3.86E-04	1.06E-02	2.66E-02	2.72E-02	3.75E-04	6.25E-05	-8.75E-04	1.31E-03
3.87E-04	1.03E-02	2.34E-02	2.88E-02	-2.50E-04	-2.13E-03	-1.19E-03	2.56E-03
3.88E-04	1.25E-02	2.53E-02	2.72E-02	-1.19E-03	-1.19E-03	-2.44E-03	1.31E-03
3.89E-04	1.09E-02	2.69E-02	3.00E-02	3.75E-04	4.75E-03	1.31E-03	-2.44E-03
3.90E-04	1.03E-02	2.41E-02	3.09E-02	6.25E-05	3.75E-04	2.88E-03	1.63E-03
3.91E-04	1.28E-02	2.44E-02	2.94E-02	-2.44E-03	6.88E-04	-1.19E-03	2.25E-03
3.92E-04	1.13E-02	2.72E-02	2.94E-02	-5.63E-04	-2.13E-03	-2.50E-04	1.94E-03
3.93E-04	1.03E-02	2.81E-02	2.97E-02	-1.19E-03	-1.81E-03	6.88E-04	2.56E-03
3.94E-04	1.03E-02	2.38E-02	3.00E-02	-1.19E-03	2.56E-03	1.63E-03	1.00E-03
3.95E-04	1.09E-02	2.81E-02	2.81E-02	-1.50E-03	-2.50E-04	-1.50E-03	1.00E-03
3.96E-04	1.00E-02	2.53E-02	2.75E-02	-1.81E-03	-1.19E-03	3.75E-04	4.13E-03
3.97E-04	8.13E-03	2.53E-02	2.91E-02	-1.19E-03	6.25E-05	-5.63E-04	1.63E-03
3.98E-04	1.00E-02	2.59E-02	2.81E-02	6.25E-05	3.75E-04	6.25E-05	1.31E-03
3.99E-04	1.22E-02	2.38E-02	3.00E-02	-3.06E-03	-1.19E-03	6.25E-05	6.25E-05
4.00E-04	1.03E-02	2.34E-02	2.88E-02	1.31E-03	6.25E-05	1.31E-03	1.63E-03
4.01E-04	1.09E-02	2.50E-02	2.66E-02	-3.06E-03	6.25E-05	6.25E-05	1.94E-03
4.02E-04	1.16E-02	2.72E-02	2.78E-02	3.75E-04	6.25E-05	-2.75E-03	1.31E-03
4.03E-04	1.09E-02	2.56E-02	3.19E-02	-8.75E-04	-2.75E-03	-1.19E-03	2.25E-03
4.04E-04	1.16E-02	2.44E-02	2.75E-02	-2.13E-03	-1.19E-03	-2.50E-04	-2.50E-04
4.05E-04	1.03E-02	2.50E-02	2.84E-02	-2.50E-04	-8.75E-04	6.88E-04	1.31E-03
4.06E-04	9.69E-03	2.53E-02	2.47E-02	-2.13E-03	-2.75E-03	1.63E-03	2.25E-03
4.07E-04	1.13E-02	2.50E-02	3.00E-02	-4.94E-03	-8.75E-04	6.25E-05	2.25E-03
4.08E-04	1.06E-02	2.41E-02	2.97E-02	-2.13E-03	-1.50E-03	-8.75E-04	6.88E-04
4.09E-04	1.16E-02	2.63E-02	3.00E-02	-5.63E-04	-2.44E-03	3.75E-04	2.56E-03
4.10E-04	1.09E-02	2.63E-02	2.72E-02	-2.13E-03	-1.19E-03	-8.75E-04	4.44E-03
4.11E-04	8.75E-03	2.56E-02	2.91E-02	-2.13E-03	1.00E-03	-5.63E-04	1.00E-03
4.12E-04	9.69E-03	2.47E-02	2.56E-02	1.63E-03	6.25E-05	3.75E-04	2.88E-03
4.13E-04	1.22E-02	2.69E-02	2.94E-02	-2.50E-04	-2.44E-03	-1.50E-03	1.31E-03
4.14E-04	1.03E-02	2.53E-02	2.75E-02	-2.44E-03	-4.63E-03	-1.19E-03	1.00E-03
4.15E-04	1.06E-02	2.56E-02	3.16E-02	-1.81E-03	-5.63E-04	-2.13E-03	6.88E-04

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
4.16E-04	9.69E-03	2.44E-02	2.94E-02	3.75E-04	-2.44E-03	3.75E-04	1.94E-03
4.17E-04	1.06E-02	2.53E-02	3.03E-02	-2.13E-03	-1.50E-03	6.88E-04	-8.75E-04
4.18E-04	1.06E-02	2.69E-02	3.41E-02	-2.44E-03	-1.19E-03	6.25E-05	3.75E-04
4.19E-04	8.44E-03	2.72E-02	3.09E-02	-5.63E-04	-1.50E-03	6.25E-05	2.56E-03
4.20E-04	1.16E-02	2.38E-02	2.75E-02	-8.75E-04	3.75E-04	-2.50E-04	3.19E-03
4.21E-04	9.38E-03	2.66E-02	3.03E-02	-1.19E-03	-2.50E-04	1.31E-03	2.25E-03
4.22E-04	7.81E-03	2.53E-02	2.78E-02	-2.44E-03	-8.75E-04	6.88E-04	1.00E-03
4.23E-04	6.88E-03	2.28E-02	2.81E-02	3.75E-04	-5.63E-04	-1.19E-03	6.88E-04
4.24E-04	8.75E-03	2.53E-02	2.88E-02	-2.50E-04	-1.81E-03	2.25E-03	1.63E-03
4.25E-04	1.22E-02	2.63E-02	2.78E-02	-2.50E-04	-2.13E-03	-5.63E-04	3.19E-03
4.26E-04	1.06E-02	2.31E-02	2.78E-02	-3.38E-03	-1.50E-03	6.25E-05	6.88E-04
4.27E-04	1.03E-02	2.31E-02	2.88E-02	-1.19E-03	-1.81E-03	-5.63E-04	2.25E-03
4.28E-04	1.03E-02	2.41E-02	2.84E-02	-8.75E-04	-8.75E-04	-1.81E-03	1.31E-03
4.29E-04	1.03E-02	2.34E-02	2.97E-02	6.25E-05	-1.19E-03	-1.50E-03	6.25E-05
4.30E-04	1.03E-02	2.44E-02	2.97E-02	-3.38E-03	-3.06E-03	-2.44E-03	2.25E-03
4.31E-04	1.31E-02	2.44E-02	3.03E-02	-5.63E-04	-1.19E-03	6.25E-05	1.94E-03
4.32E-04	9.38E-03	2.53E-02	2.97E-02	-1.19E-03	-8.75E-04	2.56E-03	3.75E-04
4.33E-04	1.06E-02	2.47E-02	2.75E-02	3.75E-04	-8.75E-04	2.25E-03	1.63E-03
4.34E-04	9.06E-03	2.72E-02	3.03E-02	-5.63E-04	-5.63E-04	6.25E-05	2.56E-03
4.35E-04	1.03E-02	2.50E-02	2.78E-02	-1.50E-03	-1.50E-03	-5.63E-04	1.31E-03
4.36E-04	1.09E-02	2.44E-02	3.00E-02	-1.50E-03	-2.50E-04	1.31E-03	6.88E-04
4.37E-04	1.09E-02	2.66E-02	2.91E-02	6.88E-04	-2.50E-04	-8.75E-04	6.25E-05
4.38E-04	9.69E-03	2.72E-02	2.81E-02	-1.50E-03	-1.50E-03	-2.44E-03	1.31E-03
4.39E-04	1.16E-02	2.47E-02	2.94E-02	-2.44E-03	6.25E-05	3.75E-04	6.25E-05
4.40E-04	9.38E-03	2.63E-02	3.06E-02	-1.50E-03	-3.06E-03	-2.50E-04	2.25E-03
4.41E-04	1.03E-02	2.34E-02	3.00E-02	-1.19E-03	-2.75E-03	6.25E-05	2.88E-03
4.42E-04	1.09E-02	2.47E-02	2.75E-02	-5.63E-04	-2.13E-03	3.75E-04	1.31E-03
4.43E-04	1.03E-02	2.53E-02	2.66E-02	-2.13E-03	1.63E-03	1.31E-03	1.63E-03
4.44E-04	9.38E-03	2.47E-02	3.03E-02	-1.81E-03	-1.19E-03	6.88E-04	2.88E-03
4.45E-04	9.69E-03	2.84E-02	2.94E-02	-8.75E-04	-5.63E-04	3.75E-04	1.31E-03
4.46E-04	1.19E-02	2.56E-02	2.97E-02	-1.19E-03	1.00E-03	-5.63E-04	6.25E-05
4.47E-04	1.03E-02	2.41E-02	2.91E-02	1.63E-03	-5.63E-04	6.88E-04	1.94E-03
4.48E-04	1.03E-02	2.53E-02	2.97E-02	-2.50E-04	-2.44E-03	-2.75E-03	3.75E-04
4.49E-04	1.09E-02	2.41E-02	3.00E-02	-1.81E-03	6.88E-04	-5.63E-04	6.88E-04
4.50E-04	1.13E-02	2.81E-02	2.97E-02	-1.81E-03	1.94E-03	1.94E-03	1.63E-03
4.51E-04	9.69E-03	2.25E-02	3.00E-02	-2.50E-04	-2.13E-03	-2.50E-04	4.13E-03
4.52E-04	1.16E-02	2.44E-02	2.91E-02	-2.13E-03	-1.19E-03	-8.75E-04	-2.50E-04
4.53E-04	9.69E-03	2.34E-02	3.03E-02	-5.63E-04	-2.75E-03	-8.75E-04	6.88E-04
4.54E-04	9.69E-03	2.53E-02	2.94E-02	6.88E-04	-1.19E-03	6.25E-05	3.19E-03
4.55E-04	1.13E-02	2.53E-02	2.91E-02	-1.50E-03	6.25E-05	1.63E-03	1.63E-03

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Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
4.56E-04	1.22E-02	2.50E-02	2.97E-02	-2.75E-03	-1.81E-03	-1.50E-03	1.63E-03
4.57E-04	1.28E-02	2.56E-02	2.97E-02	-2.50E-04	-2.13E-03	-5.63E-04	2.25E-03
4.58E-04	1.31E-02	2.69E-02	2.97E-02	-2.13E-03	-8.75E-04	-2.13E-03	-2.50E-04
4.59E-04	9.69E-03	2.63E-02	3.09E-02	-1.81E-03	-1.19E-03	3.75E-04	3.75E-04
4.60E-04	9.69E-03	2.53E-02	2.84E-02	-2.50E-04	-1.19E-03	-5.63E-04	-8.75E-04
4.61E-04	1.09E-02	2.47E-02	2.81E-02	-2.50E-04	-8.75E-04	2.25E-03	2.56E-03
4.62E-04	1.09E-02	2.56E-02	2.78E-02	-5.63E-04	-8.75E-04	3.75E-04	1.31E-03
4.63E-04	1.13E-02	2.28E-02	2.88E-02	-8.75E-04	-2.75E-03	3.75E-04	1.31E-03
4.64E-04	1.09E-02	2.59E-02	2.94E-02	-1.81E-03	-2.50E-04	6.25E-05	1.94E-03
4.65E-04	1.03E-02	2.53E-02	3.09E-02	1.00E-03	-8.75E-04	1.31E-03	1.31E-03
4.66E-04	8.75E-03	2.56E-02	3.09E-02	-1.81E-03	1.63E-03	-1.50E-03	-5.63E-04
4.67E-04	1.03E-02	2.56E-02	2.75E-02	-8.75E-04	-1.19E-03	6.88E-04	6.25E-05
4.68E-04	1.19E-02	2.47E-02	3.19E-02	-1.81E-03	-1.19E-03	-5.63E-04	3.81E-03
4.69E-04	1.16E-02	2.47E-02	3.06E-02	-2.13E-03	6.25E-05	-3.38E-03	6.88E-04
4.70E-04	1.31E-02	2.41E-02	2.81E-02	-2.13E-03	-2.75E-03	-3.69E-03	1.94E-03
4.71E-04	1.19E-02	2.44E-02	2.72E-02	6.25E-05	-1.19E-03	6.88E-04	-2.50E-04
4.72E-04	1.16E-02	2.47E-02	3.34E-02	-1.50E-03	-2.13E-03	-5.63E-04	1.31E-03
4.73E-04	7.50E-03	2.44E-02	2.63E-02	3.75E-04	-5.63E-04	-2.44E-03	-5.63E-04
4.74E-04	1.13E-02	2.53E-02	3.00E-02	-2.13E-03	-1.50E-03	8.81E-03	2.25E-03
4.75E-04	7.81E-03	2.44E-02	2.97E-02	-5.63E-04	-2.75E-03	1.00E-03	4.44E-03
4.76E-04	1.06E-02	2.34E-02	2.81E-02	3.75E-04	6.25E-05	1.31E-03	3.19E-03
4.77E-04	1.19E-02	2.63E-02	2.94E-02	-8.75E-04	-1.50E-03	3.75E-04	6.25E-05
4.78E-04	1.19E-02	2.63E-02	2.78E-02	6.88E-04	6.88E-04	-2.50E-04	2.56E-03
4.79E-04	1.03E-02	2.44E-02	2.78E-02	-2.50E-04	-5.63E-04	-1.50E-03	1.63E-03
4.80E-04	1.28E-02	2.44E-02	2.97E-02	-1.81E-03	-1.50E-03	1.63E-03	6.88E-04
4.81E-04	1.28E-02	2.47E-02	2.94E-02	3.75E-04	-1.19E-03	-5.63E-04	1.94E-03
4.82E-04	1.09E-02	2.53E-02	2.72E-02	-8.75E-04	1.63E-03	6.25E-05	1.00E-03
4.83E-04	1.13E-02	2.47E-02	3.16E-02	-1.50E-03	-2.13E-03	-8.75E-04	2.88E-03
4.84E-04	9.38E-03	2.44E-02	2.88E-02	-2.44E-03	-8.75E-04	-2.75E-03	1.00E-03
4.85E-04	6.56E-03	2.63E-02	2.97E-02	-2.50E-04	-1.50E-03	-8.75E-04	1.63E-03
4.86E-04	9.38E-03	2.63E-02	2.97E-02	-8.75E-04	-1.19E-03	6.88E-04	1.31E-03
4.87E-04	1.00E-02	2.50E-02	2.94E-02	6.25E-05	-8.75E-04	3.75E-04	6.25E-05
4.88E-04	9.69E-03	2.47E-02	3.09E-02	-1.81E-03	-2.75E-03	1.94E-03	6.25E-05
4.89E-04	1.00E-02	2.38E-02	2.81E-02	-2.50E-04	1.00E-03	-2.50E-04	1.63E-03
4.90E-04	1.00E-02	2.72E-02	2.94E-02	-5.63E-04	-2.50E-04	6.25E-05	6.25E-05
4.91E-04	1.09E-02	2.63E-02	3.00E-02	1.00E-03	6.25E-05	-1.50E-03	1.00E-03
4.92E-04	1.16E-02	2.56E-02	2.88E-02	-2.50E-04	-2.44E-03	1.00E-03	1.31E-03
4.93E-04	1.00E-02	2.38E-02	2.91E-02	-1.19E-03	-1.19E-03	6.25E-05	1.94E-03
4.94E-04	1.13E-02	2.63E-02	2.75E-02	-8.75E-04	-1.50E-03	3.75E-04	1.00E-03
4.95E-04	1.16E-02	2.56E-02	2.75E-02	-5.63E-04	-2.50E-04	-8.75E-04	1.31E-03

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Table 1 – continued from previous page

Time (s)	Air 1 (V)	Air 2 (V)	Air 3 (V)	Water 1 (V)	Water 2 (V)	Water 3 (V)	Water 4 (V)
4.96E-04	1.09E-02	2.34E-02	2.91E-02	-2.44E-03	-2.75E-03	-8.75E-04	1.31E-03
4.97E-04	1.25E-02	2.59E-02	2.81E-02	-1.19E-03	-2.44E-03	-2.50E-04	6.88E-04
4.98E-04	1.09E-02	2.53E-02	2.91E-02	-1.50E-03	-5.63E-04	-1.50E-03	1.63E-03
4.99E-04	8.13E-03	2.38E-02	3.03E-02	-1.81E-03	3.75E-04	-3.06E-03	3.50E-03

For CSV data files which we didn't analyze, see [here](#).