SPI Mag™

MODEL 282L
TWO INCH FULL PIPE SENSOR

INSTALLATION AND PROFILING MANUAL FOR PIPE SIZES 4”-60”

JULY 2010

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SAFETY SUMMARY

The following are general safety precautions that are not related to any specific procedure and therefore do not appear elsewhere in this publication. These are the recommended precautions that personnel must understand and apply when working in confined spaces. Examples of confined spaces are boilers, furnaces, degreasers, pipelines, pits, pumping stations, septic tanks, sewage digesters, manholes, vaults, and storage tanks.

NEVER ENTER A CONFINED SPACE WITHOUT TESTING THE AIR

The air inside confined spaces may be toxic, oxygen deficient, or explosive due to a lack of good ventilation. This is because most confined spaces are not designed for workers to enter and work on a routine basis.

Do not trust your senses to determine if the air in a confined space is safe. You cannot see or smell many of the toxic gases or vapors. Test the space at the bottom, middle, and top.

NEVER ENTER A CONFINED SPACE WITHOUT THE PROPER SAFETY EQUIPMENT

Do not enter a confined space without the proper safety equipment such as a tripod, lifeline, and gas detector.

NEVER ENTER A CONFINED SPACE WITHOUT STANDBY/RESCUE PERSONNEL

Only enter a confined space in the presence of someone who is capable of rendering aid. Standby personnel should not have any other duties but to serve as standby and know what action to take in case of an emergency. Standby personnel should not enter a confined space until help arrives and then only with proper equipment, life lines, and respirators.

Comment:

Over 50% of workers who die in confined spaces are attempting to rescue other workers.

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SPECIFICATIONS

VELOCITY MEASUREMENT

METHOD: Electromagnetic (Faraday's Law)
RANGE: –0.5 to +20 ft/sec (600 cm./sec)
ACCURACY: ± 2% of reading, ± zero stability
ZERO STABILITY: ±0.03 ft/sec

MATERIALS

SENSOR: Polyurethane exposed to flow
SENSOR CABLE: Twinax Polyurethane outer jacket
SENSOR MOUNTING: PVC and ductile iron exposed to flow (stainless steel optional)

PRESSURE / TEMPERATURE LIMITS

PVC INSERTION TUBE: 150 psi @ 105° F
(McCrometer recommends the use of stainless steel.)
STAINLESS STEEL INSERTION TUBE: 250 psi @ 160° F
SENSOR: Flow temperature range 32° F to 160° F (0° C to 72° C) at 250 psi. Sensors for extreme environments are available, subject to application review - contact factory.

DIMENSIONS

SENSOR: 1.66" Diameter (Requires 1.75" ball valve port clearance)
INSERTION HARDWARE: 1.66" Diameter, Length varies (Specify length at time of order)

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SECTION I GENERAL DESCRIPTION

Sensor

The two inch full pipe sensor (Figure 1-1) measures water velocity in full pipes. The sensor operates on the Faraday principle which states that a conductor moving through a magnetic field produces a voltage that is directly proportional to the velocity of the conductor. An inductor inside the sensor produces the magnetic field, and two velocity electrodes on the surface of the sensor measure the voltage produced by the water (moving conductor). The flowmeter electronics convert the voltage measurement to a velocity output.

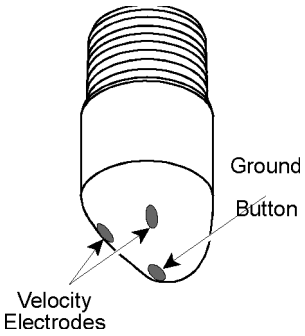

Figure 1-1. Sensor

Comment:

The purpose of the reference electrode is to suppress electrical noise that may be present in the water.

Insertion Hardware

The insertion hardware (Figure 1-2) consists of a sensor, sensor cable, ball valve, and insertion tube. The sensor is attached to the insertion tube and the insertion tube is inserted into the pipe through a 2” ball valve or corporation stop. A standard sensor cable is 20 feet long and terminates at a terminal strip or sensor disconnect.

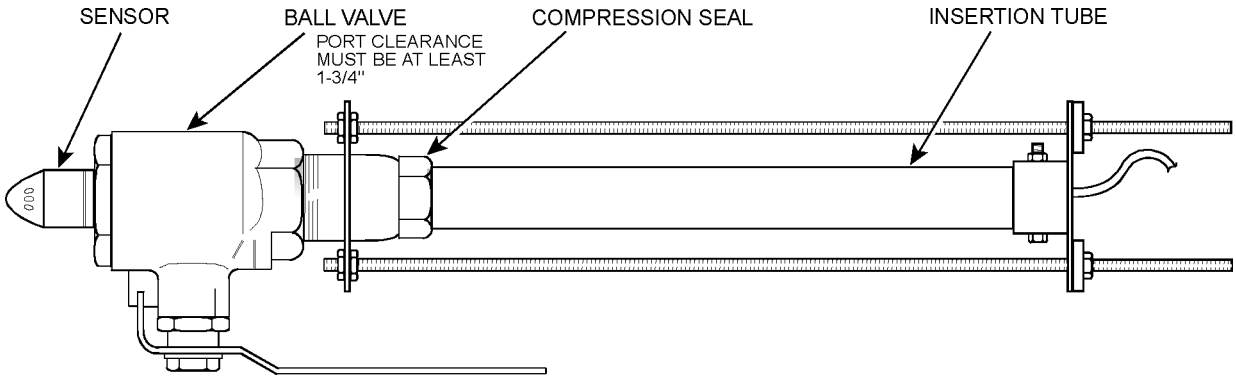

Figure 1-2. Insertion Hardware

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Flow Measurement

Velocity Profile

The velocity profile is the velocity of the water at various positions on a plane across the pipe. These velocities vary and the slowest velocities are at or near the pipe wall. The result is a profile shape similar to the one shown in Figure 1-3. This shape is referred to as the theoretical profile.

Comment:

Pipe elbows, valves or obstructions will cause the profile shape to change.

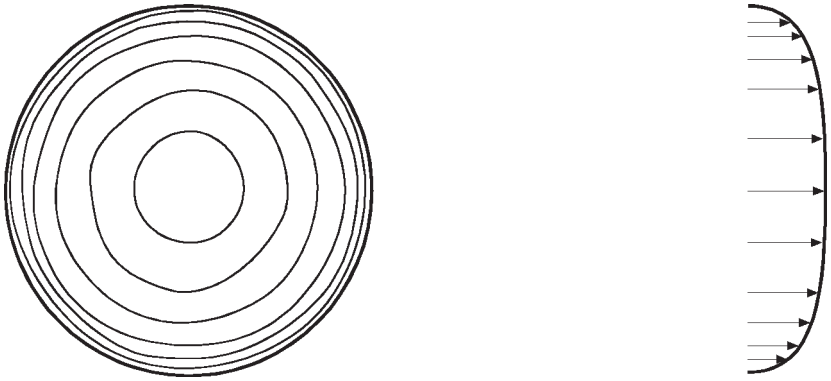

Figure 1-3. Velocity Profile (Theoretical)

Mean Velocity

The mean velocity ($\overline{U}$) is the average of all the velocities across the flow.

Sensed Velocity

The sensed velocity (U) is the velocity that is measured by the sensor which is located near the sensor electrodes.

Flow Calculation

Flow is calculated with the continuity equation Q = $\overline{U}$ x A where Q is flow, $\overline{U}$ is mean velocity and A is cross-sectional area of the pipe.

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Velocity Multipliers (K1, K2, K3)

The velocity multiplier (K) modifies the sensed velocity so that it can be used as the mean velocity in the continuity equation. One velocity multiplier (K1) is a first order multiplier and a first order multiplier assumes a linear relationship between the sensed velocity and the velocity profile. This may be significantly non-linear when:

- The difference between the minimum and maximum flow is three or more times.
- The sensor is located near an elbow, junction, or obstruction.

If the above conditions exist, a second or third order multiplier is appropriate. The third order equation is:

$$U = K_1U_S + K_2U_S^2 + K_3U_S^3$$

Where (K) is the multiplier and (U_S) is the sensed velocity.

Calculating the Velocity Multipliers

We must have a sensed velocity and a mean velocity to calculate the velocity multiplier. Profiling is the method we use to get the mean velocity. When the flow is profiled, the velocity is measured at various locations across the flow.

Comment:

A second order multiplier requires at least three profiles and a third order multiplier requires at least four profiles. The profiles should be evenly spaced over the range of flows and must include a profile of the minimum and maximum flow rates.

You will need the Flow Calculator software package to calculate second or third order multipliers. Factory assistance is also available.

Check the instruction manual for your model flowmeter to see if the meter can use second and third order multipliers.

Calculating the Mean Velocity

The pipe cross-section is divided into a number of concentric rings called annular areas (Figure 1-4). Although the velocity across the pipe changes, the velocity in a particular annular area is considered constant. Each annular area velocity is weighted because the amount of influence that each one has on the mean velocity calculation is different. To get the mean velocity, the weighted velocities are totaled then they are divided by a mean velocity factor.

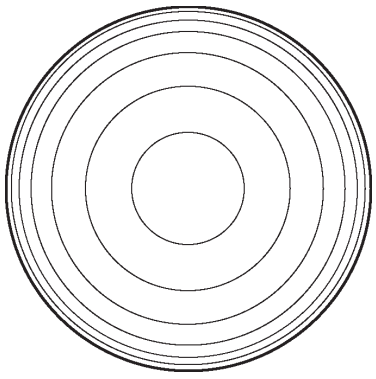

Figure 1-4. Annular Areas

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The two inch profiling data log in the back of this manual has a column of sensor locations. Each location in this column represents an annular area. The velocity at each location is measured with the sensor and recorded in the log. The velocity at a particular location is multiplied by the weighting factor at that location. The weighted velocities are totaled and divided by the mean velocity factor at the bottom of the log to get the mean velocity.

Isotachs

An isotach indicates a velocity gradient (Figure 1-5). This can be compared to a topographic map that shows the varying terrain with elevation lines. Notice that the isotachs in Figure 1-5 are concentric circles. These isotachs are from a fully developed profile in a straight run of pipe. This is the configuration that was used to develop the weighting factors in the profiling data log. The best results are attained in applications which have velocity profiles similar to the one used to develop the information in the profiling data log.

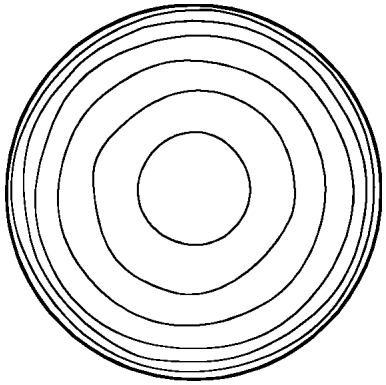

Figure 1-5. Isotachs

Sensor Location

Locate the sensor as far as possible away from elbows, valves, and junctions. A few guidelines are as follows:

- The sensor should be located at least 5 pipe diameters upstream or 10 pipe diameters downstream from elbows and junctions.

  Comment:

  The best results are obtained from a sensor that is as far as possible away from elbows, junctions, and obstructions.

- The sensor must be located at least 10 pipe diameters upstream or 25 pipe diameters downstream from active valves.

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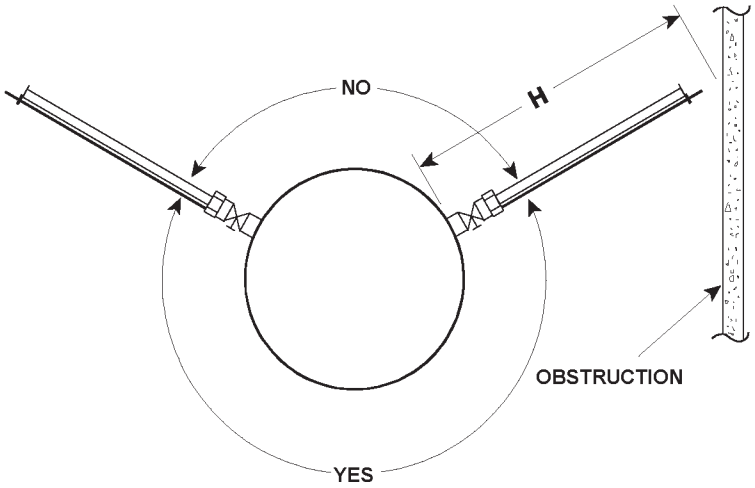
SECTION II APPLICATION SCHEMATICS

The application schematics (Pages 2-1 to 2-7) show different applications and the best sensor location for a particular application.

Clearance

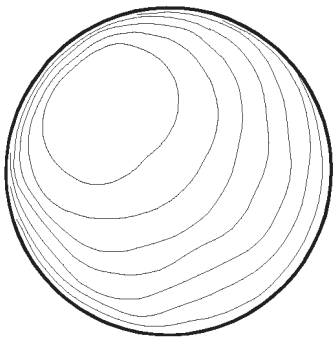
Distance H must be at least one insertion tube length plus 8

The sensor can be installed on vertical and horizontal pipes. However, on horizontal pipes, do not install the sensor at or near the top of the pipe. Air bubbles and grease float to the top and could affect readings.

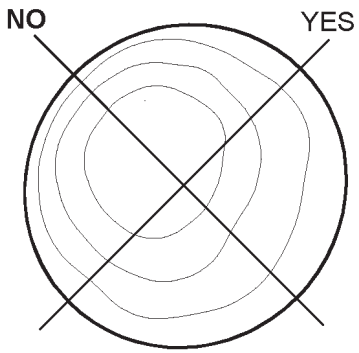


Skewed Profiles

This profile is skewed too much to get good results. These locations are indicated by a NO in the application schematics.



This profile is somewhat skewed. These locations, which are indicated by a NOT RECOMMENDED in the application schematics, should be avoided.



If a NOT RECOMMENDED location cannot be avoided, mount the sensor so that the profile is bisected asymmetrically when the pipe is traversed.

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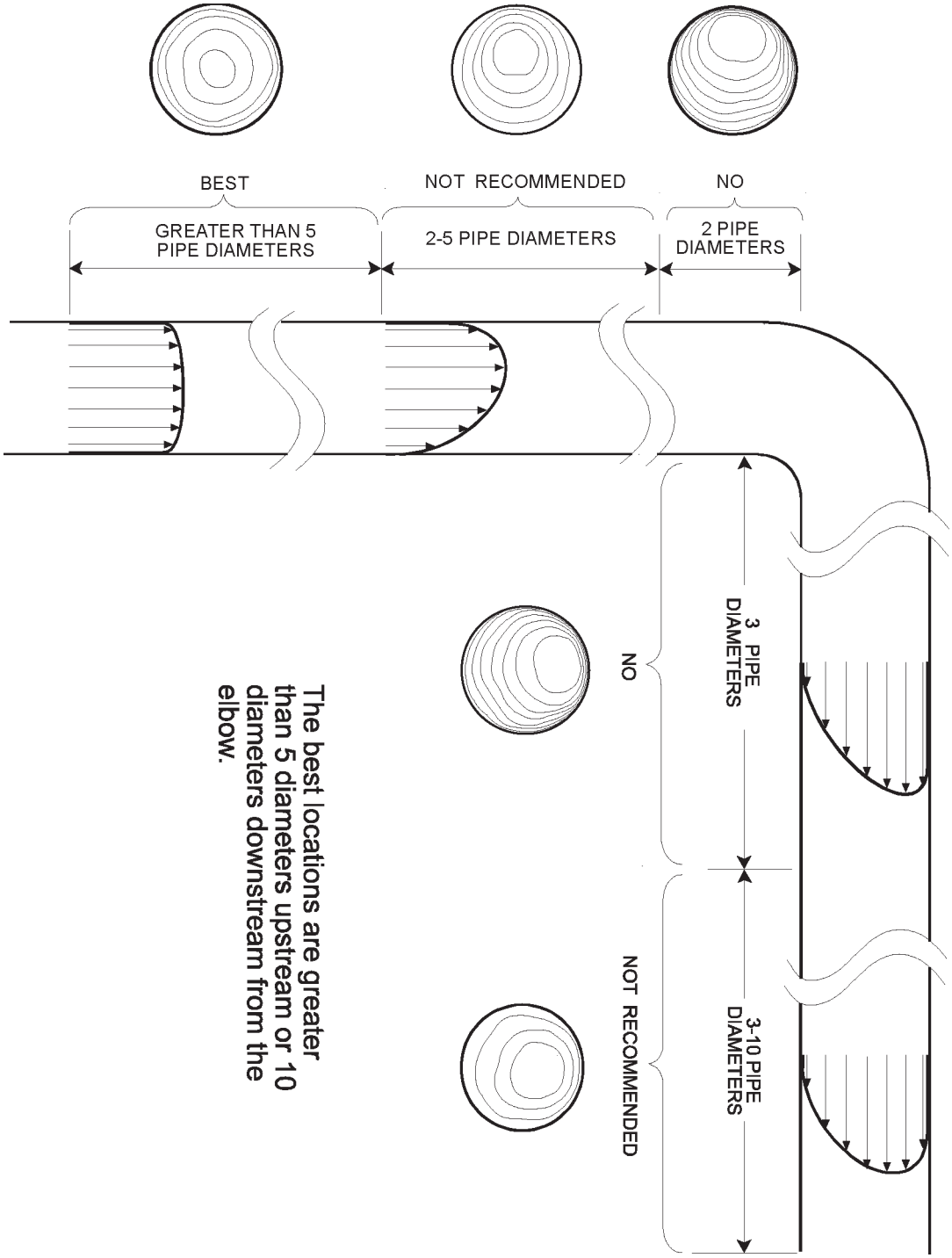
90° ELBOW



The best locations are greater than 5 diameters upstream or 10 diameters downstream from the elbow.

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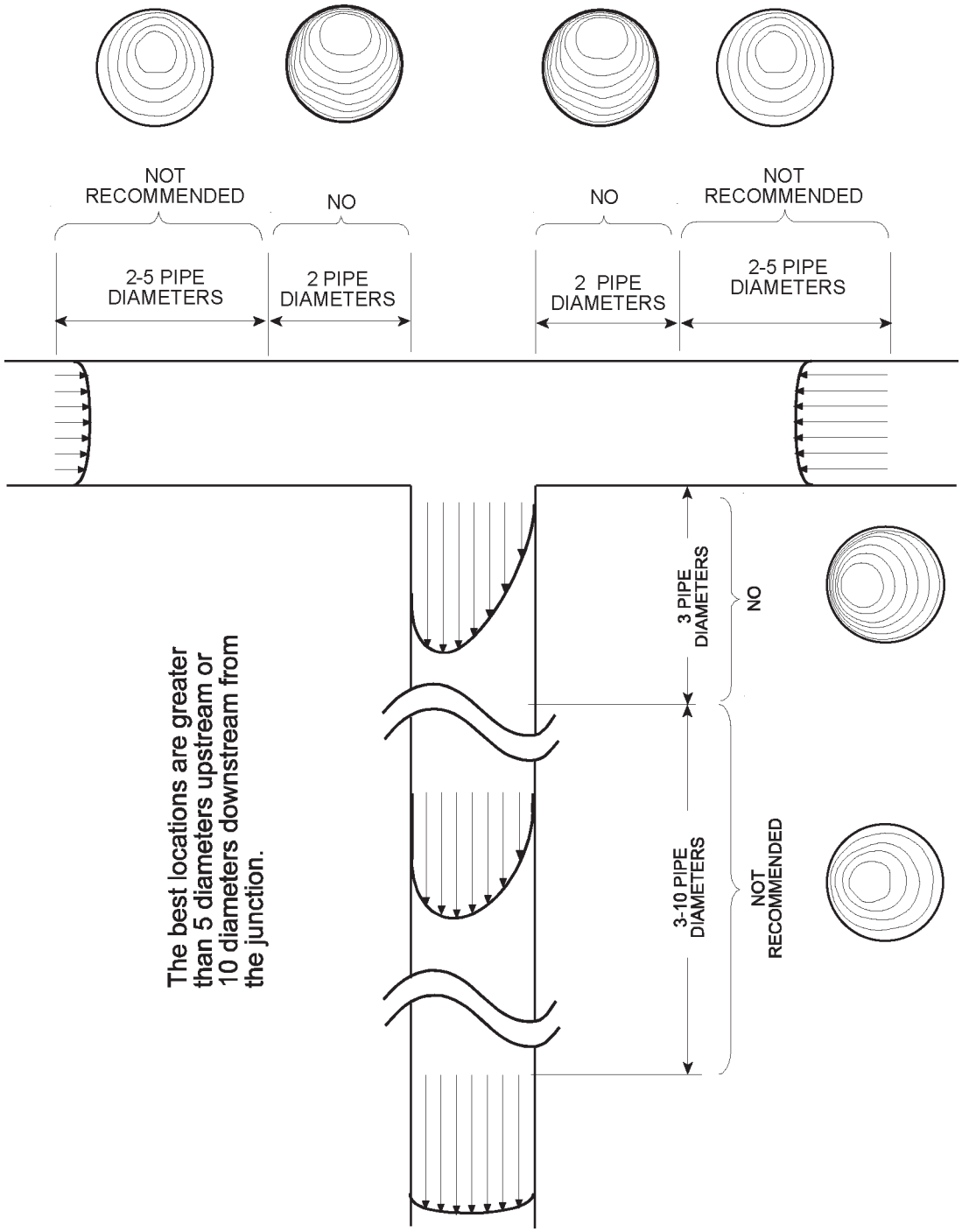

T - JUNCTION

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Y-JUNCTION

The best locations are greater than 5 diameters upstream or 10 diameters downstream from the junction.

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The purpose of an active valve is to vary the flow. An active valve will produce a distorted profile that changes as the flow changes. As a result, the sensor must be installed at least 10 diameters upstream or 25 diameters downstream from an active valve. The upstream side is the preferred location.

ACTIVE VALVES

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SMALL LARGE PIPE JUNCTION

The best locations are greater than 10 diameters downstream or 1 diameter upstream from the junction.

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PUMP STATION

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SECTION III INSTALLATION AND PROFILING

This instruction is for the installation of the sensor and insertion hardware. The sensor cable connections and flowmeter installation instructions are contained in the manual for your model flowmeter. The installation outline is as follows:

- Mount the flowmeter electronics.
- Install the sensor.
- Measure the inside diameter of the pipe.
- Profile the flow.
- Calculate Mean Velocity ($\overline{U}$).
- Set the sensor at the operating position.
- Record the velocity at the operating position.
- Calculate the Velocity Multiplier.

INSTALLATION

Flowmeter

Install the flowmeter as described in the technical manual for your model flowmeter.

Sensor

Location, Position, and Clearance

The Application Schematics (Pages 2-1 through 2-7) illustrate sensor location, position, and clearance requirements.

Access Hole

The pipe must be tapped and have a pipe nipple in place before the sensor can be installed. A smooth 1-3/4" access hole (Figure 3-1) and a flush pipe nipple (Figure 3-2) are required for accurate flow measurement in waste water applications. Clean water applications that can use the 1/8 D operating position do not have to have flush pipe nipples.

WARNING

Tapping into pressurized pipes is dangerous and injury could result from improper tapping procedures.

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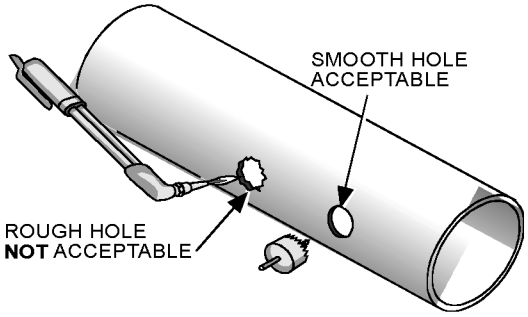

Figure 3-1. Access Hole

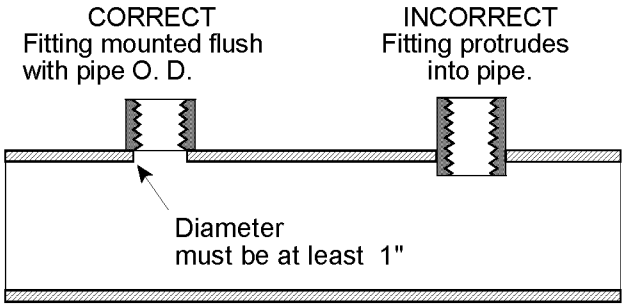

Figure 3-2. Pipe Nipple

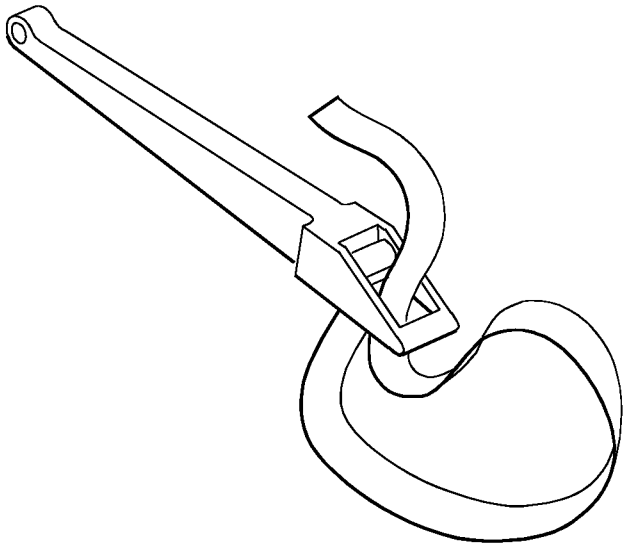

Figure 3-3. Strap Wrench

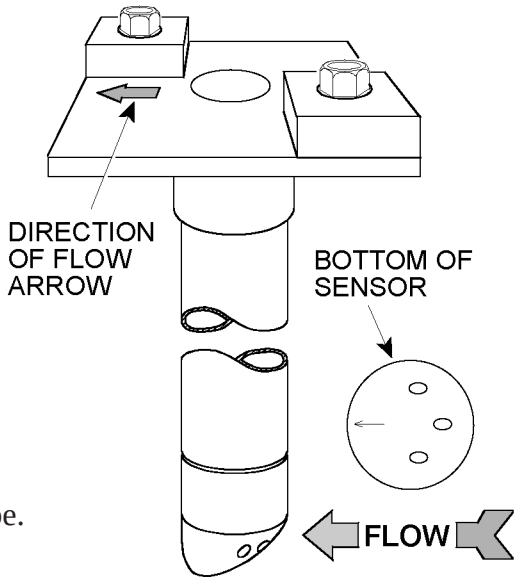

Figure 3-4. Sensor Alignment

Attach the Sensor to Insertion Tube

The sensor is usually shipped with the sensor attached to the insertion tube. If the sensor needs to be attached, then do the following:

- Wrap the sensor threads with Teflon tape.
- Run the sensor cable through the center of the insertion tube and carefully screw the sensor into the insertion tube. Hand tighten only.

Sensor Alignment

After the sensor has been attached to the insertion tube, it needs to be aligned. To align the sensor, turn it using a strap wrench until the arrow on the sensor and the arrow on the decal are pointed in the same direction (Figure 3-4).

Comment:

Only use a strap wrench (Figure 3-3) to rotate the sensor.

Do not force the sensor.

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Measure Length C

Measure and write down length C. This is measured from the top edge of the insertion tube cap to the start of the tapered section on the sensor (Figure 3-5). You will need this measurement to do the profile. The tapered section of the sensor is about 3/4". If the insertion tube is in the pipe and cannot be removed, see "Measuring Length C (Alternate Method)" on Page 3-9.

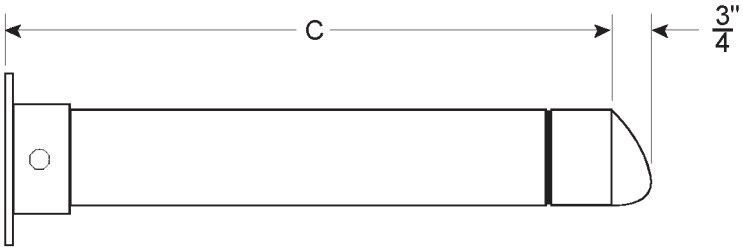

Figure 3-5. Length C

Install the Insertion Tube

Install the ball valve on the pipe nipple. Use Teflon tape to seal the pipe threads. Do not use pipe dope because the unit will only output near zero velocity readings if pipe dope gets on the sensor electrodes.

- Remove the plastic cover from the pipe nipple on the compression seal and wrap the nipple with Teflon tape.
- Wrap the compression seal threads with Teflon tape and screw it into the ball valve. Do not use pipe dope to seal the threads. If pipe dope gets on the sensor electrodes, noisy velocity readings near zero will result.
- The compression seal must be aligned so that any one side of the restraining plate is parallel to the pipe (Figure 3-6).
- Attach the restraining rods to the compression seal restraining plate. The rods need to be positioned so that when the insertion tube is installed the sensor will be aligned with the flow. Be sure all cotter pins are properly installed (Figure 3-7).

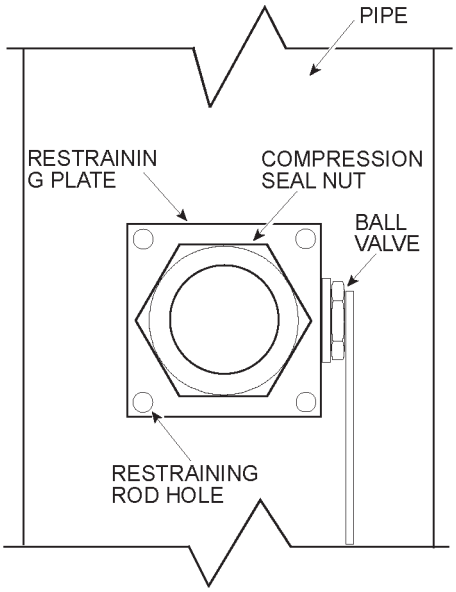

Figure 3-6. Compression Seal Installation

WARNING

The insertion tube may shoot out of the pipe and could cause injury if the restraining rods are not properly installed.

- With the arrow on the insertion tube cap aligned with the flow (Figure 3-4), run the restraining rods through the captive nuts until the insertion tube is inside the compression seal.

CAUTION

The captive nuts must be tightened simultaneously or the insertion tube cap will become cocked and cause the captive nuts to bind. A profiling tool (Figure 3-8) will prevent this.

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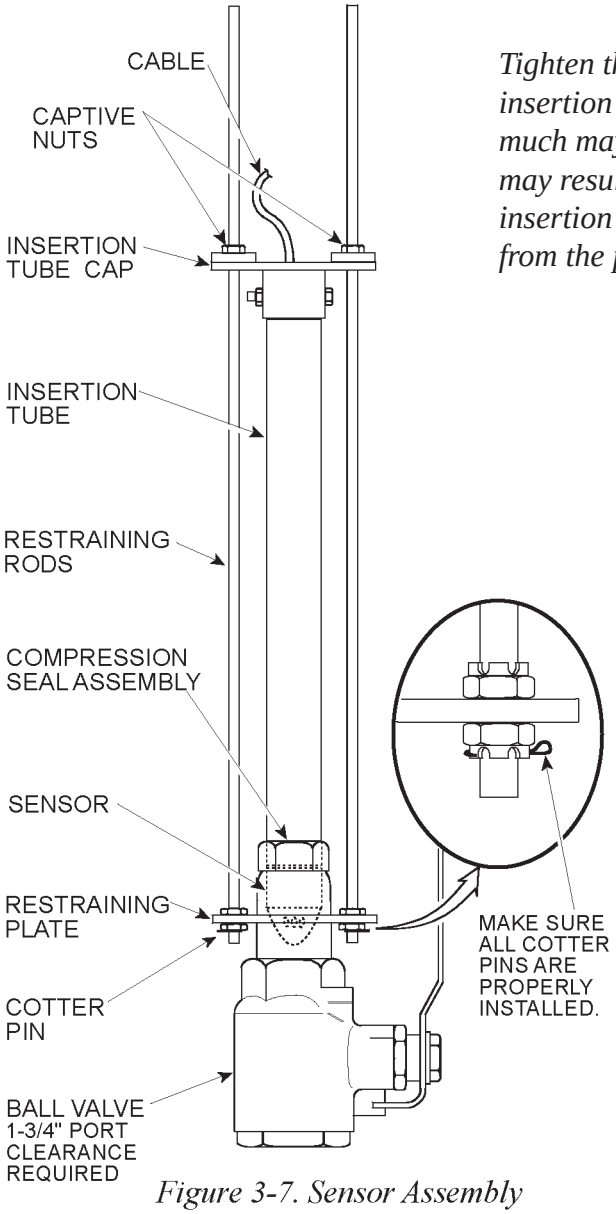

Figure 3-7. Sensor Assembly

IMPORTANT

Tighten the compression seal nut only enough to seal the insertion tube. Tightening the compression seal nut too much may cause the seal to grip the insertion tube. This may result in the captive nuts being pulled out of the insertion tube cap when the insertion tube is retracted from the pipe.

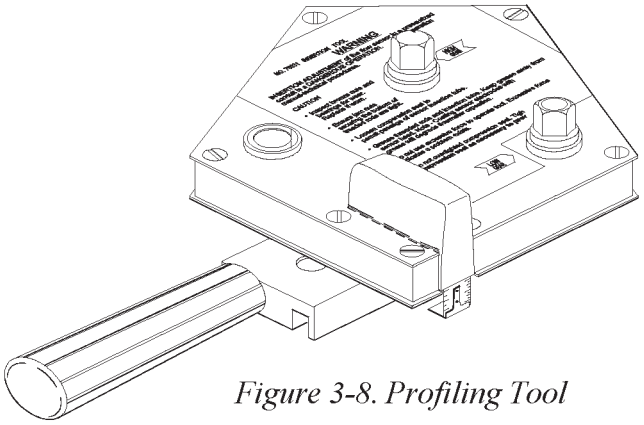

Figure 3-8. Profiling Tool

Profiling Tool

A profiling tool (Figure 3-8) is used to rotate the captive nuts on the insertion tube cap simultaneously. Place the profiling tool over the captive nuts and rotate the high gear shaft.

Check Pipe ID

If you do not know the inside diameter (ID) and wall thickness (WT) of the pipe, measure them before you start to profile. The best method is to measure them directly; however, if the flow cannot be shut down, the sensor can be used to get these measurements.

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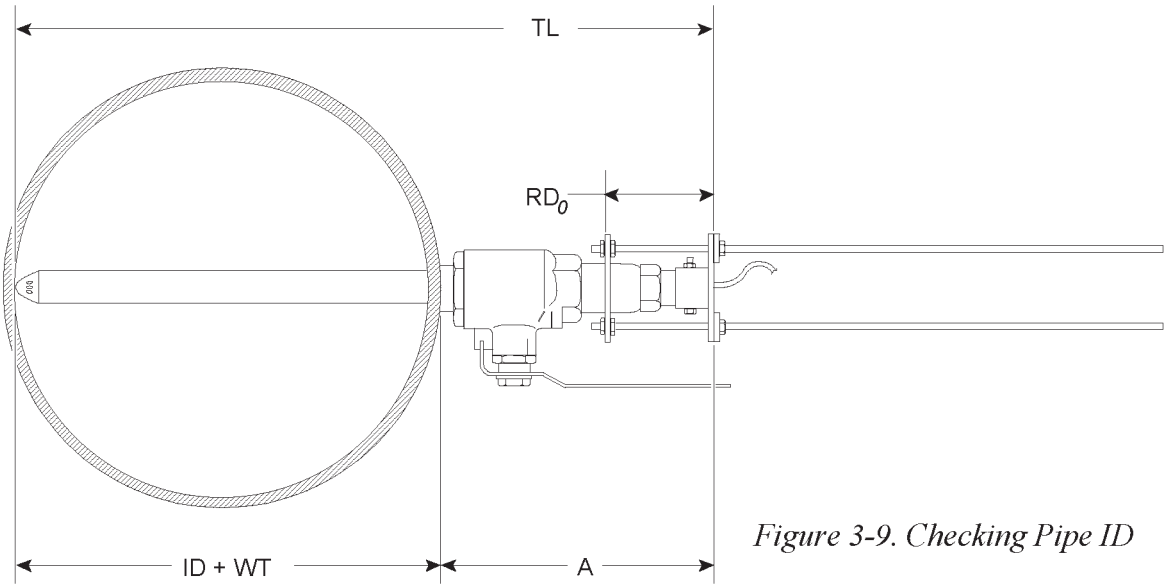

Figure 3-9. Checking Pipe ID

- Place the profiling tool over the captive nuts with the yellow decal on top.
- OPEN the ball valve.
- Place a ratchet on the high gear shaft of the profiling tool and rotate clockwise. Do this until the tip of the sensor reaches the far wall of the pipe. The sensor will stop and you will not be able to turn the ratchet.

CAUTION

As the sensor nears the far wall, slow down and do not force the ratchet. Excessive force could damage the sensor or insertion tool, which would require sensor replacement.

- Measure the outside circumference of the pipe and divide this measurement by π (3.14). This is the outside diameter (O.D.).
- Now add 3/4" to length C (Figure 3-5). This is total length (TL).
- Measure distance A (Figure 3-9). This is measured from the pipe O.D. to the top edge of the insertion tube cap .

The sensor cable must be connected to the flowmeter and the meter must be set to output velocity. Check the flowmeter instruction manual for sensor cable connection and velocity output.

To obtain the velocity profile, you will need to measure multiple velocities at various locations across the pipe. To do this you need:

A reference distance (RD).

The profiling data log at the back of this manual.

The reference distance is measured from the top edge of the insertion tube cap to the bottom edge of the compression seal nut (Figure 3-9).

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- Subtract distance A from total length (TL). This will give the inside diameter (I.D.) plus one wall thickness (WT).

  ID + WT = TL - A

- Determine the wall thickness by:

  WT = OD - (ID + WT)

- Determine inside diameter (ID) by:

  ID = OD - 2(WT) or ID = (ID + WT) - WT

Measuring the Velocity Profile

Far Wall Method

The far wall is the wall opposite the sensor mounting hardware. The far wall method starts with the first velocity measurement being taken at the far wall. If the insertion tube is too short to traverse the pipe I.D., use the near wall method (Page 3-10) to do a partial profile (Section IV).

Comment:

The far wall method is preferred because it is easier to locate the far wall than it is the near wall.

The sensor cable must be connected to the flowmeter and the meter must be set to output velocity. Check the flowmeter instruction manual for sensor cable connection and velocity output.

To obtain the velocity profile, you will need to measure multiple velocities at various locations across the pipe. To do this, you need:

A reference distance (RD).

The profiling data log.

The reference distance is measured from the top edge of the insertion tube cap to the bottom edge of the restraining plate (Figure 3-10).

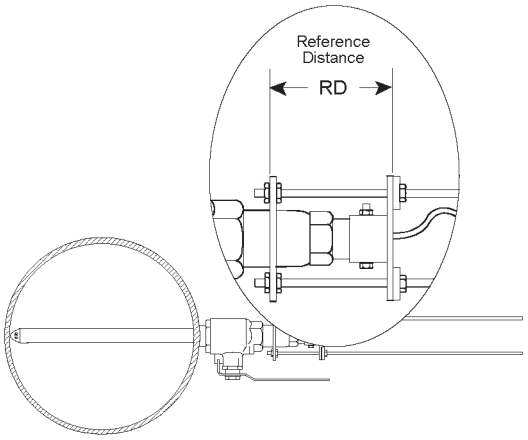

Figure 3-10. Reference distance

- Open the profiling data log to the page with the inside diameter (I.D.) of your pipe.
- Place the profiling tool over the captive nuts on the insertion tube cap.
- Position the sensor at the far wall (RD_0) by rotating the high gear shaft on the profiling tool clockwise until the sensor stops (Figure 3-9). Slow down and be careful as the sensor approaches the far wall. Do not force the ratchet.
- Measure and record RD_0.

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- Calculate RD_1 and rotate the high gear shaft counterclockwise until (RD_1) is reached.
  $RD_1 = (RD_0 + 1/4")$
- Record (RD_1) and the velocity reading in the appropriate columns at the bottom of the log at RD_1 location (Figure 3-11).

PIPE ID = 4.00" *# OF DATA POINTS 8*

	REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
RD_8	_____	0.00	_____	x	8.154	=	_____
RD_7	_____	0.25	_____	x	1.439	=	_____
RD_6	_____	0.50	_____	x	1.040	=	_____
RD_5	_____	0.75	_____	x	.667	=	_____
RD_4	_____	1.00	_____	x	.361	=	_____
RD_3	_____	1.50	_____	x	.589	=	_____
RD_2	_____	2.00	_____	x	2.820	=	_____
RD_1	_____	3.00	_____	x	4.222	=	_____
RD_0	_____				TOTAL		_____

TOTAL_____ ÷ 19.25 = MEAN VEL_____

Figure 3-11. Profiling Data Log

- Calculate RD_2 and position the sensor at RD_2. Record RD_2 and the velocity.
  $RD_2 = (\text{Sensor Location } RD_1 - \text{Sensor Location } RD_2) + RD_1$
- Calculate RD_3 and position the sensor at RD_3. Record RD_3 and the velocity.
  $RD_3 = (\text{Sensor Location } RD_2 - \text{Sensor Location } RD_3) + RD_2$
- Repeat this until you reach sensor location 0.00.

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Sensor Location Check

The sensor location check is used to verify the pipe I.D., and should be done immediately after the velocity profile has been measured. With the sensor at location 0.00, increase distance RD by 3/4". The velocity output should be about zero. If it is not, the I.D. is larger than thought. If the velocity drops to near zero before location 0.00 is reached, the I.D. is smaller than thought. Repeat the profile at the correct pipe diameter.

Mean Velocity ($\overline{U}$) Calculation

After you have finished profiling, you need to calculate the mean velocity ($\overline{U}$).

- Multiply each measured velocity by the weighting constant and record the product in weighted velocity column.
- Now add the weighted velocities and record the total at the bottom of the page in the TOTAL block.
- Divide the total by the number specified on the bottom of the log to find the mean velocity.

TOTAL_____ ÷ XX.XX = MEAN VEL

Velocity Multiplier (K1, K2, K3) Calculation

The Velocity Multiplier (K) converts the sensed velocity to a mean velocity. For all flowmeters that use the Flo-Ware program, the velocity multiplier is calculated by that program. Check the Flo-Ware Communications User Manual for a description of the velocity multiplier fields. For those flowmeters which do not use the Flo-Ware program, the velocity multiplier calculation is as follows:

- Position the sensor at the operating position and record the velocity.
- Divide the mean velocity that was recorded in the profiling data log by the operating position velocity. The result is the velocity multiplier (K).

Comment:

If you want to do a second or third order correction (Page 1-3), you must use the Site-Ware software package. You can also consult the factory.

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Sensor Operating Position (Raw Waste Water)

The operation position for raw waste water and sludge is at sensor location 0.00. To position the sensor at this location you need to:

- Calculate distance A (Figure 3-12) by subtracting the pipe wall thickness (WT) from length C.
- Position the top edge of the insertion tube cap distance A from the pipe.

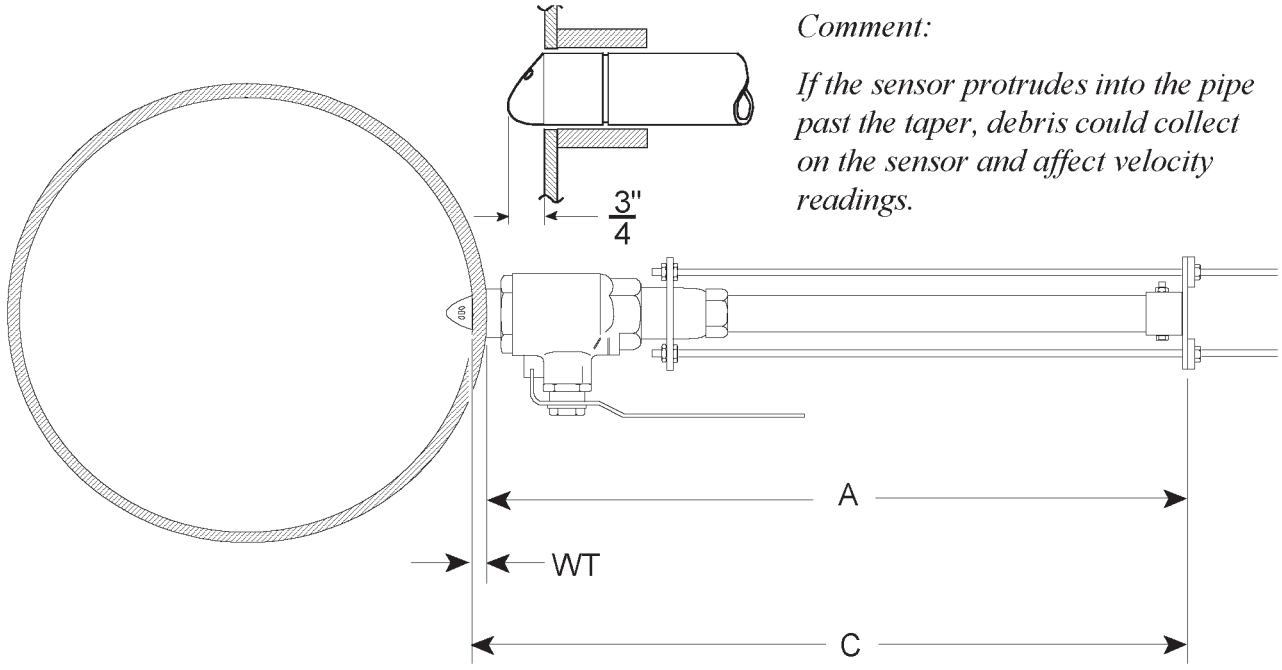

Figure 3-12. Sensor Operating Position

Sensor Operating Position (Clean Water)

The preferred operating position for clean water that does not contain rags or strings is at the 1/8 D sensor position (Page 3-14).

Measuring Length C (Alternate Method)

The overall sensor length will vary by ±1/8". Therefore, this method should only be used in situations where it is difficult to measure length C directly. To measure length C with this method you will need to:

- Measure the inside of the insertion tube from the sensor to the top of the insertion tube cap (Figure 3-13 Distance B).

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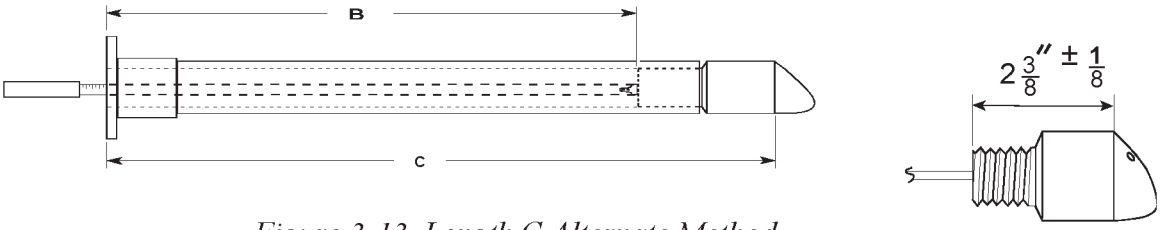

Figure 3-13. Length C Alternate Method

- Add 2-3/8" to distance B. This will be length C.

  Length $C = B + 2\frac{3}{8}''$

Measuring the Velocity Profile

Near Wall Method

The near wall is the wall through which the sensor enters the pipe. With the near wall method, the FIRST velocity measurement is taken when the sensor is located at the near wall.

Comment:

The far wall method is preferred because it is easier to locate the far wall than it is the near wall.

The sensor cable must be connected to the flowmeter and the meter must be set to output velocity. Check the flowmeter instruction manual for sensor cable connection and velocity output.

To measure the velocity profile, you will need to measure the velocity at various locations across the pipe. To do this you need:

A reference distance (RD).

The profiling data log.

The reference distance is measured from the top edge of the insertion tube cap to the bottom edge of the restraining plate (Figure 3-14).

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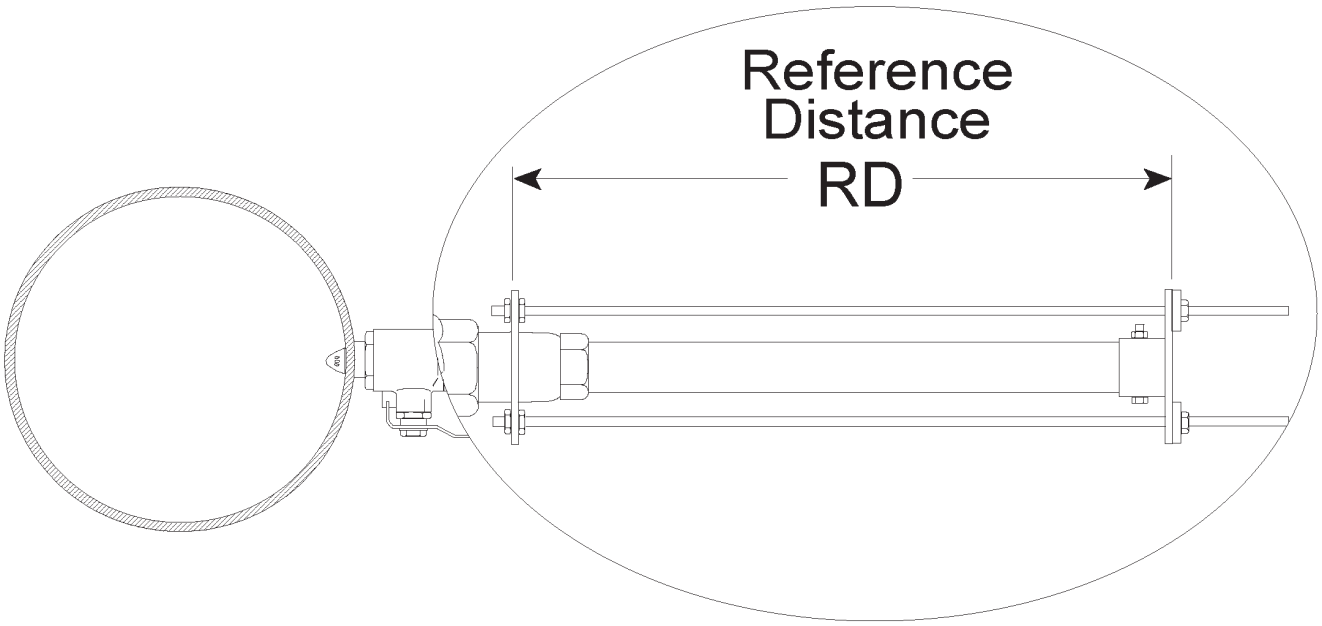

Figure 3-14. Reference Distance RD

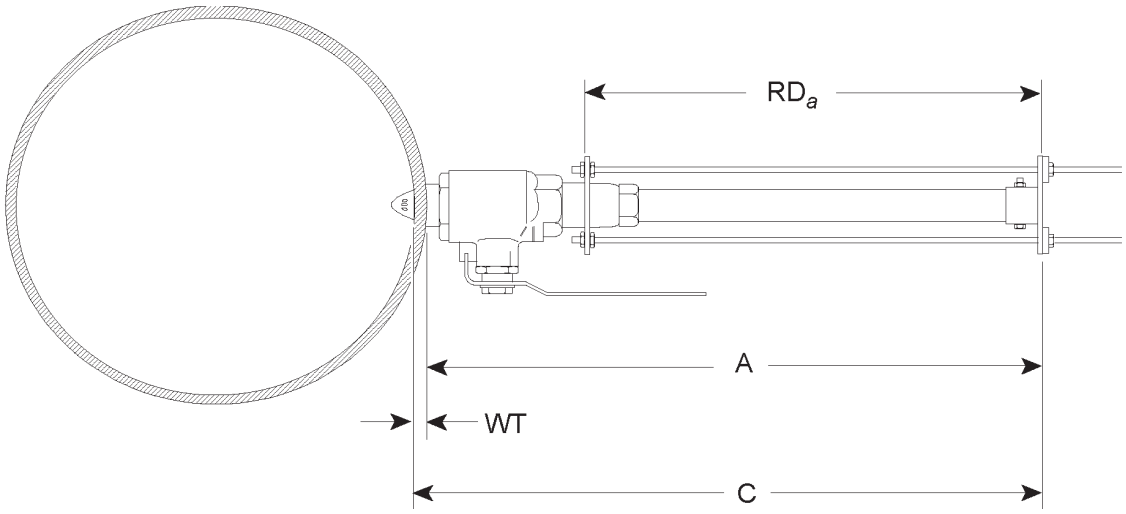

Figure 3-15. RD_a Near Wall

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- Open the profiling data log to the page with the inside diameter (I.D.) of your pipe.
- Calculate distance A (Figure 3-15) by subtracting the wall thickness (WT) from the insertion tube length C.
- Place the profiling tool (Figure 3-8) over the captive nuts on the insertion tube cap. With a ratchet, rotate the high gear shaft clockwise until the top edge of the insertion tube cap is distance A from the pipe. This is sensor position RD_a.
- Measure reference distance RD_a (Figure 3-15) and record it at sensor location 0.00 under the reference distance column in the profiling data log (Figure 3-16).
- Record the velocity in the measured velocity column next to sensor location 0.00.
- Calculate RD_b and rotate the high gear shaft until RD_b is reached.
  $RD_b = RD_a$ - (Sensor Location RD_b - Sensor Location RD_a)
- Record RD_b and the velocity in the appropriate columns at sensor location 0.25.
- Calculate RD_c and position the sensor at location 0.50. Record RD_c and the velocity.
  $RD_c = RD_b$ - (Sensor Location RD_c - Sensor Location RD_b)
- Repeat this until you reach the bottom sensor location.

PIPE ID = 4.00" *# OF DATA POINTS 8*

	REF (RD) DISTANCE	*SENSOR LOCATION*	*MEASURED VELOCITY (FPS)*		*WEIGHT CONSTANT*		*WEIGHTED VELOCITY*
RD_a	_____	*0.00*	_____	*x*	*8.154*	=	_____
RD_b	_____	*0.25*	_____	*x*	*1.439*	=	_____
RD_c	_____	*0.50*	_____	*x*	*1.040*	=	_____
RD_d	_____	*0.75*	_____	*x*	*.667*	=	_____
RD_e	_____	*1.00*	_____	*x*	*.361*	=	_____
RD_f	_____	*1.50*	_____	*x*	*.589*	=	_____
RD_g	_____	*2.00*	_____	*x*	*2.820*	=	_____
RD_h	_____	*3.00*	_____	*x*	*4.222*	=	_____
	_____				*TOTAL*		_____

TOTAL_____ ÷ 19.25 = MEAN VEL_____

Figure 3-16. Profiling Data Log

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Sensor Location Check

The sensor location check is used to verify the pipe ID. After you have reached the bottom location, slowly decrease distance RD by 1/4". The sensor should stop. Do not force the ratchet. If the sensor stops before the 1/4" distance is reached, then the I.D. is smaller than thought. If the sensor does not stop when the 1/4" distance is reached, the I.D. is larger than thought. Repeat the profile at the correct pipe diameter.

Mean Velocity ($\overline{U}$) Calculation

After you have finished profiling, you need to calculate the mean velocity ($\overline{U}$).

- Multiply each measured velocity by the weighting constant and record the product in the weighted velocity column.
- Add the weighted velocities and record the total at the bottom of the page in the TOTAL block.
- Divide the total by the number specified on the bottom of the log to find the mean velocity.

TOTAL_____ ÷ XX.XX = MEAN VEL

Velocity Multiplier (K1, K2, K3) Calculation

Calculate the velocity multiplier as described on Page 3-8.

Sensor Operating Position

The operating position for raw waste water and sludge is at sensor location 0.00 (Page 3-9). The operating position for clean water is at the 1/8 D position (Page 3-14).

1/8 D Profile

The accuracy of a 1/8 D profile depends on the existence of a theoretical profile (Page 1-2), and can only be used when the flow regime is representative of the theoretical profile. An industry accepted standard is that the velocity of the flow at a distance of 1/8 the diameter from the wall of the pipe is considered to be the mean velocity. To profile, simply position the sensor at 1/8 D and record the velocity. Then calculate the velocity multiplier (Page 3-8).

Comment:

The tip of the sensor will be at 1/8 D.

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1/8 D Sensor Position

- Find total length (TL)(Figure 3-17).

  $TL = C + \frac{3}{4}"$

- Calculate (1/8 D).

  $\frac{1}{8} D = 0.125 \times \text{Pipe ID}$

- Add wall thickness to 1/8 D.

- Calculate distance A (Figure 3-18).

  $A = TL - (1/8\ D + WT)$

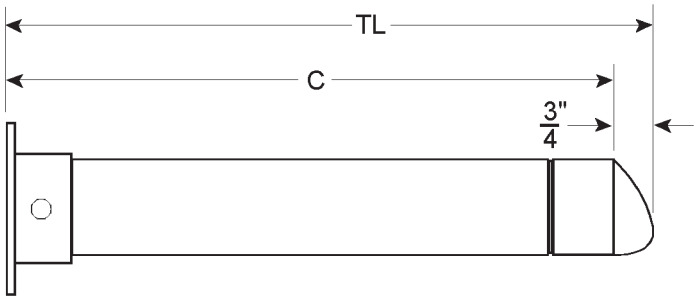

Figure 3-17. Tube Length (TL)

- Set the top edge of the insertion tube cap distance A from the pipe.

- Record the velocity and calculate the velocity multiplier (Page 3-8).

If the flow is clean water, the sensor can be left at the 1/8 D position. Do not leave the sensor in this position for raw waste water because debris could collect on the sensor and affect the velocity readings. In waste water applications, position the sensor at location 0.00 (Page 3-9).

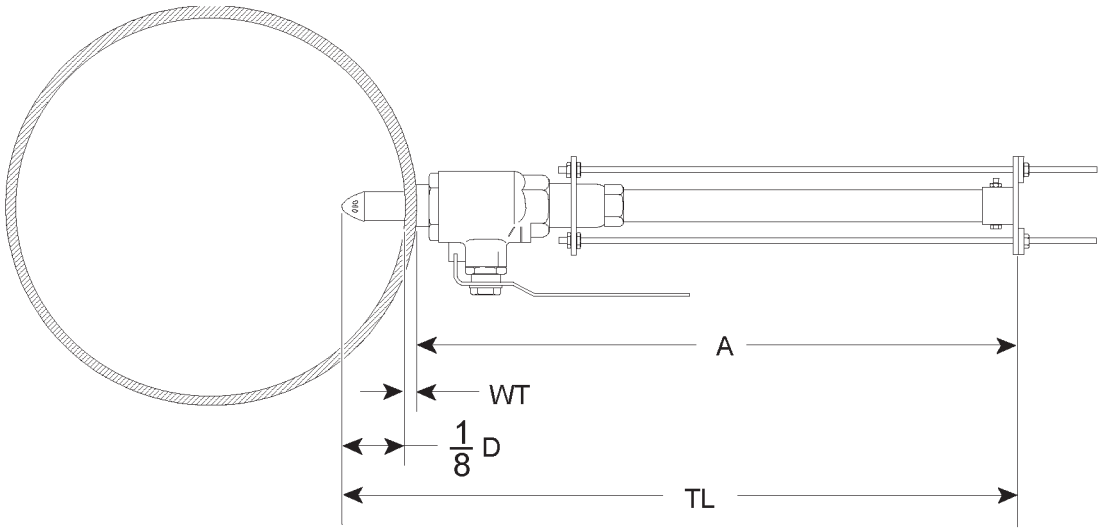

Figure 3-18. 1/8 D Sensor Location

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OPTIONS

Pressure Options

The full pipe sensor pressure option is available on both the standard and stainless steel compression seals (Figures 3-19 and 3-20).

Pressure transducer installation.

- Retract the sensor past the ball valve and close the valve.
- Remove the plug in the pressure port (Figures 3-20, 3-21) on the compression seal.
- Wrap the pressure transducer threads with Teflon tape and screw into the pressure port.
- Connect the pressure cable to the pressure transducer and flowmeter.
- Open the ball valve and position the sensor at the operating position.

Comment:

The pressure option is not available on all instruments. If the option is available, the instrument instruction manual will contain the information that describes how to connect the pressure cable to the flowmeter.

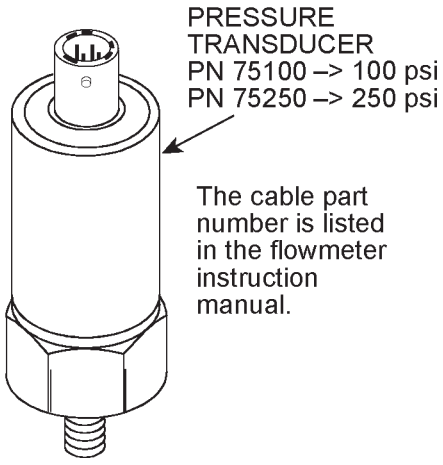

Figure 3-19. Pressure Transducer

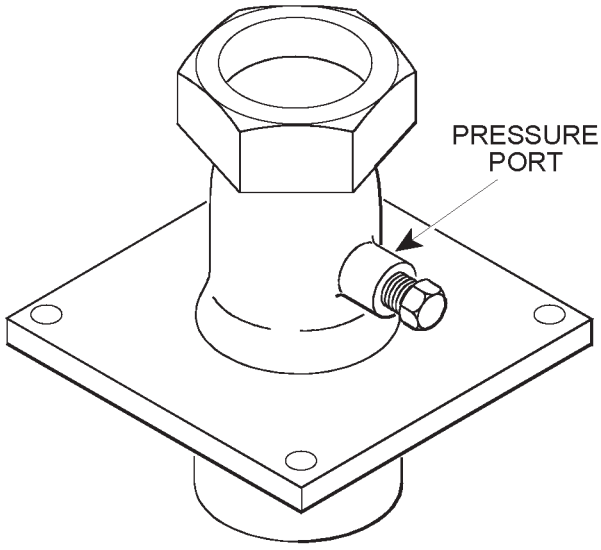

Figure 3-20. Standard Compression Seal with Pressure Port Option

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Cable Disconnect Option

The cable disconnect is used on both the sensor and pressure cables. To connect the cable, align the latch alignment marks and push the connector together. To disconnect the cable, pull the latch release toward the cable.

Comment:

The cable disconnect is not available on all instruments.

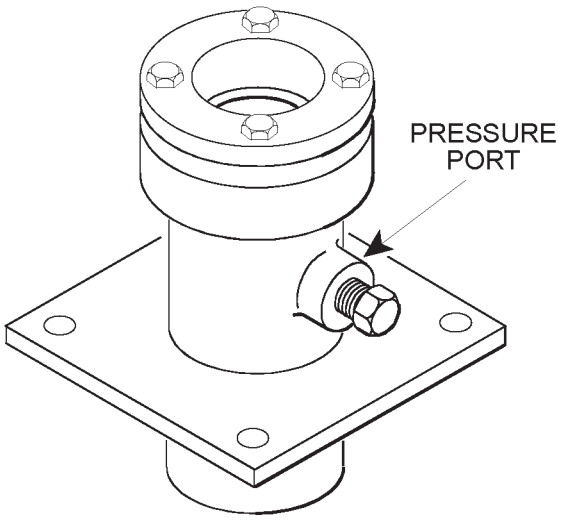

Figure 3-21. Stainless Steel Compression Seal With Pressure Port

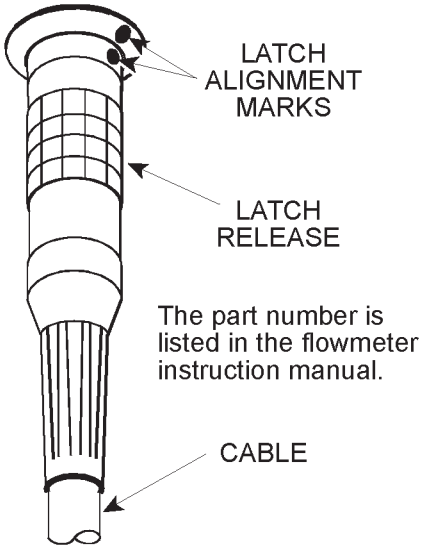

Figure 3-22. Cable Disconnect

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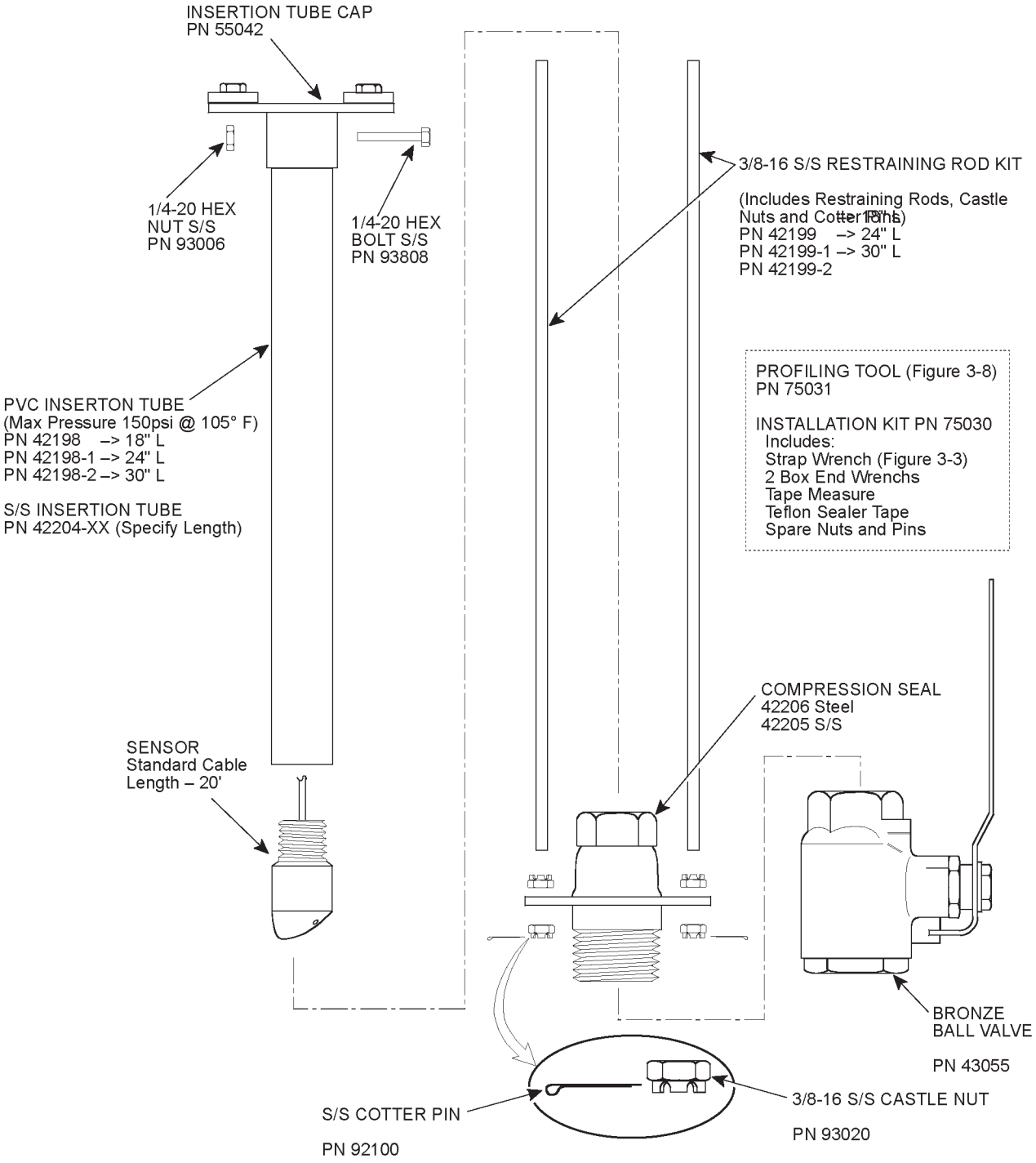
TWO INCH FULL PIPE SENSOR PARTS ILLUSTRATION



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SECTION IV PARTIAL PROFILES

In an application where it is difficult to measure a complete velocity profile, a partial profile can be used to estimate a complete profile. The mean velocity can then be calculated from the estimated profile. The accuracy of this technique however, is dependent upon experience with fluid dynamics. Do not use the partial profile as a substitute for the complete profile. Use the partial profile when:

- The insertion tube is too short to traverse the pipe.
- A constant flow rate cannot be maintained long enough to do a full profile.
- The combination of a long insertion tube and high velocity causes excessive sensor vibration.

Partial profiling requires that the user be familiar with the type of profiles that can be expected when the sensor is inserted into a pipe (Figure 4-1). Elbows or obstructions cause distorted profiles and make estimation difficult. This problem can be avoided by locating the sensor a distance of five diameters upstream or ten diameters downstream from obstructions or elbows.

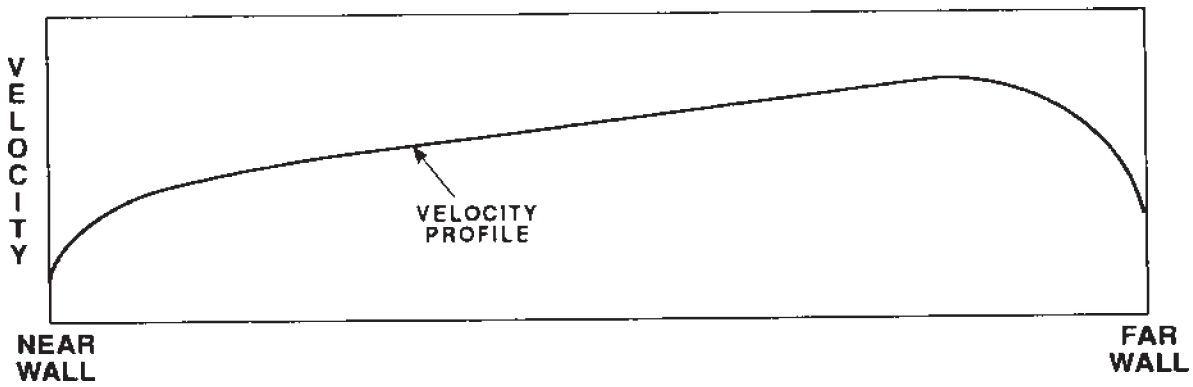

Figure 4-1. Expected Profile

Notice that the expected profile is not symmetrical about the center line. The insertion tube partially obstructs the conduit causing the fluid to speed up. The speeding up effect is less noticeable in the larger diameter conduits.

Partial Profiling Methods

Every other point method:

Measure and record the point velocity at every other sensor location (See profiling data log for sensor location values). This will cut the profiling time in half.

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60% method:

Measure and record the point velocities across 60% of the pipe diameter.

Combination method:

Measure and record the point velocity at every other sensor location across 60% of the pipe diameter.

Profile Curve Estimation

To estimate the profile, you need to:

- Measure the partial profile and record these velocities in the profiling data log. As a minimum, try to traverse 60% of the pipe diameter at every other sensor location. The more points you measure, the easier it will be to estimate the profile curve.
- Plot the measured velocities on a graph. Mark the vertical axis velocity and the horizontal axis sensor location.
- Calculate far/near wall velocity.
- Draw a smooth curve connecting the near and far wall velocities. Use the partial profile and the expected profile to estimate the profile curve.
- Find the missing velocities on the curve and record them in the profiling data log.

With either the far wall (Page 3- 6) or near wall (Page 3-10) profiling method, measure as many point velocities as you can and plot them on a graph (Figure 4-2).

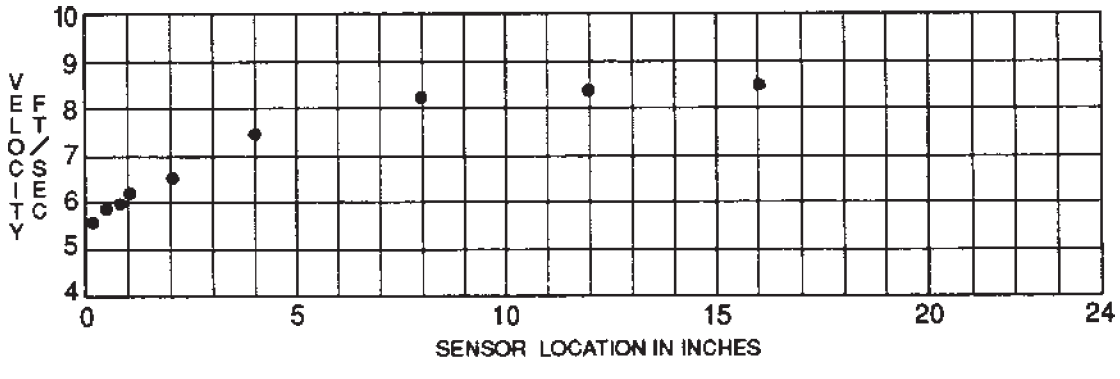

Figure 4-2. Partial Profile Plot (24" Diameter)

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Far/Near Wall Sensor Location Velocities

There is approximately an 18% difference between the far wall and near wall sensor location velocities. The far wall velocity is faster than the near wall velocity. Calculate by:

- 1.18 x near wall velocity = far wall velocity.
- 0.85 x far wall velocity = near wall velocity.

Plot the far/near wall sensor location velocity points.

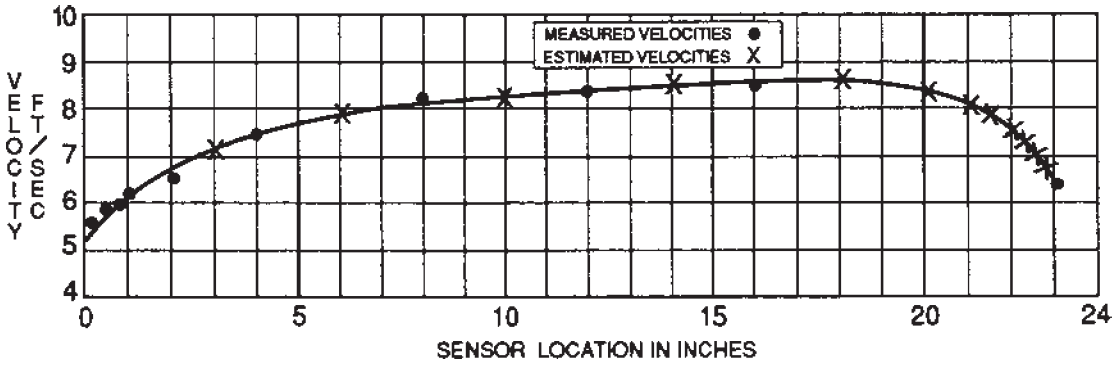

Figure 4-3. Complete Profile Curve (24" Diameter)

Complete The Profile Curve

Draw a continuous curve of the complete profile. Estimate the curve where the velocity points are missing. The estimation is based on the expected profile (Figure 4-3).

Notice that the curve does not cover the complete diameter of the pipe. This is because the sensor locations in the profiling data log are used as points of reference to plot the estimated curve. Actual velocity position is from 0.75" to 23.75".

Find the missing velocity points on the profile curve. From the graph, read the velocity values at these points and record them in the profiling data log. You may want to highlight the estimated velocity values for future reference. Calculate the mean velocity as described on Page 3-8.

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PIPE ID = 4.00" # OF DATA POINTS 8

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	8.154	=	
	0.25		x	1.439	=	
	0.50		x	1.040	=	
	0.75		x	.667	=	
	1.00		x	.361	=	
	1.50		x	.589	=	
	2.00		x	2.820	=	
	3.00		x	4.222	=	
					TOTAL	

TOTAL_____ ÷ 19.25 = MEAN VEL_____

PIPE ID = 4.25" # OF DATA POINTS 9

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	8.861	=	
	0.25		x	1.636	=	
	0.50		x	1.232	=	
	0.75		x	.851	=	
	1.00		x	.658	=	
	1.50		x	.344	=	
	2.00		x	2.545	=	
	3.00		x	3.401	=	
	3.25		x	2.617	=	
					TOTAL	

TOTAL_____ ÷ 21.99 = MEAN VEL_____

4.00 - 4.25

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PIPE ID = 4.50" # OF DATA POINTS 10

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	9.565	=	
	0.25		x	1.833	=	
	0.50		x	1.426	=	
	0.75		x	1.038	=	
	1.00		x	.881	=	
	1.50		x	.315	=	
	2.00		x	2.210	=	
	3.00		x	3.327	=	
	3.25		x	1.702	=	
	3.50		x	2.882	=	
				TOTAL		

TOTAL_____ ÷ 24.91 = MEAN VEL_____

PIPE ID = 4.75" # OF DATA POINTS 11

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	10.269	=	
	0.25		x	2.031	=	
	0.50		x	1.620	=	
	0.75		x	1.228	=	
	1.00		x	1.153	=	
	1.50		x	.364	=	
	2.00		x	1.866	=	
	3.00		x	3.179	=	
	3.25		x	1.680	=	
	3.50		x	1.870	=	
	3.75		x	3.150	=	
				TOTAL		

TOTAL_____ ÷ 28.04 = MEAN VEL_____

4.50 - 4.75

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PIPE ID = 5.00" # OF DATA POINTS 12

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	10.971	=	
	0.25		x	2.230	=	
	0.50		x	1.816	=	
	0.75		x	1.420	=	
	1.00		x	1.430	=	
	1.50		x	.660	=	
	2.00		x	1.410	=	
	3.00		x	2.974	=	
	3.25		x	1.630	=	
	3.50		x	1.843	=	
	3.75		x	2.039	=	
	4.00		x	3.421	=	
				TOTAL		

TOTAL_____ ÷ 31.36 = MEAN VEL_____

PIPE ID = 5.25" # OF DATA POINTS 12

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	11.672	=	
	0.25		x	2.428	=	
	0.50		x	2.013	=	
	0.75		x	1.613	=	
	1.00		x	1.711	=	
	1.50		x	1.049	=	
	2.00		x	1.002	=	
	3.00		x	3.485	=	
	3.50		x	2.581	=	
	3.75		x	2.008	=	
	4.00		x	2.211	=	
	4.25		x	3.694	=	
				TOTAL		

TOTAL_____ ÷ 34.88 = MEAN VEL_____

5.00 - 5.25

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PIPE ID = 5.50" # OF DATA POINTS 13

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____ x	12.372 =	_____
_____	0.25	_____ x	2.627 =	_____
_____	0.50	_____ x	2.210 =	_____
_____	0.75	_____ x	1.807 =	_____
_____	1.00	_____ x	1.995 =	_____
_____	1.50	_____ x	1.363 =	_____
_____	2.00	_____ x	.818 =	_____
_____	3.00	_____ x	3.145 =	_____
_____	3.50	_____ x	2.464 =	_____
_____	3.75	_____ x	1.952 =	_____
_____	4.00	_____ x	2.176 =	_____
_____	4.25	_____ x	2.386 =	_____
_____	4.50	_____ x	3.969 =	_____
_____			TOTAL	_____

TOTAL_____ ÷ 38.60 = MEAN VEL_____

PIPE ID = 5.50" # OF DATA POINTS 13

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____ x	12.372 =	_____
_____	0.25	_____ x	2.627 =	_____
_____	0.50	_____ x	2.210 =	_____
_____	0.75	_____ x	1.807 =	_____
_____	1.00	_____ x	1.995 =	_____
_____	1.50	_____ x	1.363 =	_____
_____	2.00	_____ x	.818 =	_____
_____	3.00	_____ x	3.145 =	_____
_____	3.50	_____ x	2.464 =	_____
_____	3.75	_____ x	1.952 =	_____
_____	4.00	_____ x	2.176 =	_____
_____	4.25	_____ x	2.386 =	_____
_____	4.50	_____ x	3.969 =	_____
_____			TOTAL	_____

TOTAL_____ ÷ 38.60 = MEAN VEL_____

5.25 - 5.50

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PIPE ID = 5.75" # OF DATA POINTS 13

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	13.072	=	
	0.25		x	2.826	=	
	0.50		x	2.408	=	
	0.75		x	2.003	=	
	1.00		x	2.281	=	
	1.50		x	1.726	=	
	2.00		x	.374	=	
	3.00		x	3.113	=	
	3.50		x	3.243	=	
	4.00		x	3.069	=	
	4.25		x	2.345	=	
	4.50		x	2.561	=	
	4.75		x	4.246	=	
				TOTAL		

TOTAL_____ ÷ 42.52 = MEAN VEL_____

PIPE ID = 6.00" # OF DATA POINTS 13

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	13.770	=	
	0.25		x	3.024	=	
	0.50		x	2.606	=	
	0.75		x	2.199	=	
	1.00		x	2.570	=	
	1.50		x	2.095	=	
	2.00		x	.675	=	
	3.00		x	3.930	=	
	4.00		x	4.551	=	
	4.25		x	2.284	=	
	4.50		x	2.739	=	
	5.00		x	4.524	=	
				TOTAL		

TOTAL_____ ÷ 46.65 = MEAN VEL_____

5.75 - 6.00

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PIPE ID = 6.25" # OF DATA POINTS 13

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	14.468	=	_____
_____	0.25	_____	x	3.223	=	_____
_____	0.50	_____	x	2.804	=	_____
_____	0.75	_____	x	2.395	=	_____
_____	1.00	_____	x	2.860	=	_____
_____	1.50	_____	x	2.468	=	_____
_____	2.00	_____	x	1.068	=	_____
_____	3.00	_____	x	3.245	=	_____
_____	4.00	_____	x	5.385	=	_____
_____	4.50	_____	x	3.570	=	_____
_____	4.75	_____	x	2.690	=	_____
_____	5.00	_____	x	2.917	=	_____
_____	5.25	_____	x	4.803	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 50.98 = MEAN VEL_____

PIPE ID = 6.50" # OF DATA POINTS 14

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	15.165	=	_____
_____	0.25	_____	x	3.422	=	_____
_____	0.50	_____	x	3.002	=	_____
_____	0.75	_____	x	2.593	=	_____
_____	1.00	_____	x	3.152	=	_____
_____	1.50	_____	x	2.844	=	_____
_____	2.00	_____	x	1.556	=	_____
_____	3.00	_____	x	2.608	=	_____
_____	4.00	_____	x	5.053	=	_____
_____	4.50	_____	x	3.445	=	_____
_____	4.75	_____	x	2.623	=	_____
_____	5.00	_____	x	2.865	=	_____
_____	5.25	_____	x	3.097	=	_____
_____	5.50	_____	x	5.083	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 55.52 = MEAN VEL_____

6.26 - 6.50

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PIPE ID = 6.75" # OF DATA POINTS 14

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	15.862	=	
	0.25		x	3.621	=	
	0.50		x	3.201	=	
	0.75		x	2.790	=	
	1.00		x	3.444	=	
	1.50		x	3.224	=	
	2.00		x	2.138	=	
	3.00		x	2.026	=	
	4.00		x	4.688	=	
	4.50		x	4.551	=	
	5.00		x	4.083	=	
	5.25		x	3.041	=	
	5.50		x	3.279	=	
	5.75		x	5.365	=	
				TOTAL		

TOTAL_____ ÷ 60.27 = MEAN VEL_____

PIPE ID = 7.00" # OF DATA POINTS 15

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	16.558	=	
	0.25		x	3.819	=	
	0.50		x	3.399	=	
	0.75		x	2.987	=	
	1.00		x	3.738	=	
	1.50		x	3.607	=	
	2.00		x	2.817	=	
	3.00		x	1.508	=	
	4.00		x	4.295	=	
	4.50		x	4.335	=	
	5.00		x	3.952	=	
	5.25		x	2.969	=	
	5.50		x	3.219	=	
	5.75		x	3.461	=	
	6.00		x	5.647	=	
				TOTAL		

TOTAL_____ ÷ 65.22 = MEAN VEL_____

6.75 - 7.00

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PIPE ID = 7.25" # OF DATA POINTS 14

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	17.254	=	_____
_____	0.25	_____	x	4.018	=	_____
_____	0.50	_____	x	3.598	=	_____
_____	0.75	_____	x	3.185	=	_____
_____	1.00	_____	x	4.032	=	_____
_____	1.50	_____	x	3.991	=	_____
_____	2.00	_____	x	3.594	=	_____
_____	3.00	_____	x	1.060	=	_____
_____	4.00	_____	x	5.818	=	_____
_____	5.00	_____	x	7.376	=	_____
_____	5.50	_____	x	4.604	=	_____
_____	5.75	_____	x	3.398	=	_____
_____	6.00	_____	x	3.644	=	_____
_____	6.25	_____	x	5.930	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 70.39 = MEAN VEL_____

PIPE ID = 7.50" # OF DATA POINTS 15

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	17.949	=	_____
_____	0.25	_____	x	4.217	=	_____
_____	0.50	_____	x	3.796	=	_____
_____	0.75	_____	x	3.383	=	_____
_____	1.00	_____	x	4.327	=	_____
_____	1.50	_____	x	4.378	=	_____
_____	2.00	_____	x	3.753	=	_____
_____	3.00	_____	x	1.370	=	_____
_____	4.00	_____	x	5.244	=	_____
_____	5.00	_____	x	7.041	=	_____
_____	5.50	_____	x	4.468	=	_____
_____	5.75	_____	x	3.320	=	_____
_____	6.00	_____	x	3.577	=	_____
_____	6.25	_____	x	3.827	=	_____
_____	6.50	_____	x	6.214	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 75.76 = MEAN VEL_____

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PIPE ID = 7.75" # OF DATA POINTS 15

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	18.643	=	
	0.25		x	4.415	=	
	0.50		x	3.995	=	
	0.75		x	3.581	=	
	1.00		x	4.622	=	
	1.50		x	4.765	=	
	2.00		x	4.316	=	
	3.00		x	1.080	=	
	4.00		x	5.020	=	
	5.00		x	6.678	=	
	5.50		x	5.910	=	
	6.00		x	5.132	=	
	6.25		x	3.758	=	
	6.50		x	4.012	=	
	6.75		x	6.499	=	
				TOTAL		

TOTAL_____ ÷ 81.34 = MEAN VEL_____

PIPE ID = 8.00" # OF DATA POINTS 14

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	19.337	=	
	0.25		x	4.614	=	
	0.50		x	4.193	=	
	0.75		x	3.780	=	
	1.00		x	4.918	=	
	1.50		x	5.155	=	
	2.00		x	4.883	=	
	3.00		x	1.569	=	
	4.00		x	8.223	=	
	6.00		x	12.886	=	
	6.25		x	3.676	=	
	6.50		x	3.940	=	
	6.75		x	4.197	=	
	7.00		x	6.784	=	
				TOTAL		

TOTAL_____ ÷ 87.14 = MEAN VEL_____

7.75 - 8.00

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PIPE ID = 8.25" # OF DATA POINTS 14

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	20.031	=	_____
_____	0.25	_____	x	4.812	=	_____
_____	0.50	_____	x	4.392	=	_____
_____	0.75	_____	x	3.978	=	_____
_____	1.00	_____	x	5.214	=	_____
_____	1.50	_____	x	5.545	=	_____
_____	2.00	_____	x	5.453	=	_____
_____	3.00	_____	x	2.152	=	_____
_____	4.00	_____	x	7.162	=	_____
_____	6.00	_____	x	14.154	=	_____
_____	6.50	_____	x	5.667	=	_____
_____	6.75	_____	x	4.122	=	_____
_____	7.00	_____	x	4.383	=	_____
_____	7.25	_____	x	7.069	=	_____
_____				TOTAL		_____

TOTAL_____÷ 93.15= MEAN VEL_____

PIPE ID = 8.50" # OF DATA POINTS 15

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	20.725	=	_____
_____	0.25	_____	x	5.010	=	_____
_____	0.50	_____	x	4.590	=	_____
_____	0.75	_____	x	4.176	=	_____
_____	1.00	_____	x	5.510	=	_____
_____	1.50	_____	x	5.936	=	_____
_____	2.00	_____	x	6.026	=	_____
_____	3.00	_____	x	2.829	=	_____
_____	4.00	_____	x	6.159	=	_____
_____	6.00	_____	x	13.560	=	_____
_____	6.50	_____	x	5.522	=	_____
_____	6.75	_____	x	4.035	=	_____
_____	7.00	_____	x	4.305	=	_____
_____	7.25	_____	x	4.570	=	_____
_____	7.50	_____	x	7.356	=	_____
_____				TOTAL		_____

TOTAL_____÷ 99.37= MEAN VEL_____

8.25 - 8.50

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PIPE ID = 8.75" # OF DATA POINTS 15

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	21.418	=	
	0.25		x	5.208	=	
	0.50		x	4.789	=	
	0.75		x	4.374	=	
	1.00		x	5.806	=	
	1.50		x	6.327	=	
	2.00		x	6.602	=	
	3.00		x	3.603	=	
	4.00		x	5.218	=	
	6.00		x	12.929	=	
	6.50		x	7.309	=	
	7.00		x	6.208	=	
	7.25		x	4.489	=	
	7.50		x	4.757	=	
	7.75		x	7.642	=	
				TOTAL		

TOTAL_____ ÷ 105.81= MEAN VEL_____

PIPE ID = 9.00" # OF DATA POINTS 16

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	22.111	=	
	0.25		x	5.407	=	
	0.50		x	4.987	=	
	0.75		x	4.573	=	
	1.00		x	6.103	=	
	1.50		x	6.720	=	
	2.00		x	7.180	=	
	3.00		x	4.474	=	
	4.00		x	4.345	=	
	6.00		x	12.263	=	
	6.50		x	7.081	=	
	7.00		x	6.058	=	
	7.25		x	4.398	=	
	7.50		x	4.674	=	
	7.75		x	4.944	=	
	8.00		x	7.929	=	
				TOTAL		

TOTAL_____ ÷ 112.46 = MEAN VEL_____

8.75 - 9.00

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PIPE ID = 9.25" # OF DATA POINTS 15

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	22.804	=	_____
_____	0.25	_____	x	5.605	=	_____
_____	0.50	_____	x	5.185	=	_____
_____	0.75	_____	x	4.771	=	_____
_____	1.00	_____	x	6.400	=	_____
_____	1.50	_____	x	7.113	=	_____
_____	2.00	_____	x	7.759	=	_____
_____	3.00	_____	x	5.441	=	_____
_____	4.00	_____	x	3.544	=	_____
_____	6.00	_____	x	14.874	=	_____
_____	7.00	_____	x	11.548	=	_____
_____	7.50	_____	x	6.753	=	_____
_____	7.75	_____	x	4.859	=	_____
_____	8.00	_____	x	5.132	=	_____
_____	8.25	_____	x	8.217	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 119.33 = MEAN VEL_____

PIPE ID = 9.50" # OF DATA POINTS 16

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	23.496	=	_____
_____	0.25	_____	x	5.803	=	_____
_____	0.50	_____	x	5.384	=	_____
_____	0.75	_____	x	4.969	=	_____
_____	1.00	_____	x	6.696	=	_____
_____	1.50	_____	x	7.506	=	_____
_____	2.00	_____	x	8.341	=	_____
_____	3.00	_____	x	5.783	=	_____
_____	4.00	_____	x	3.522	=	_____
_____	6.00	_____	x	14.018	=	_____
_____	7.00	_____	x	11.196	=	_____
_____	7.50	_____	x	6.598	=	_____
_____	7.75	_____	x	4.764	=	_____
_____	8.00	_____	x	5.045	=	_____
_____	8.25	_____	x	5.321	=	_____
_____	8.50	_____	x	8.504	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 126.42 = MEAN VEL_____

9.25 - 9.50

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PIPE ID = 9.75" # OF DATA POINTS 16

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	24.188	=	
	0.25		x	6.001	=	
	0.50		x	5.582	=	
	0.75		x	5.167	=	
	1.00		x	6.993	=	
	1.50		x	7.900	=	
	2.00		x	8.923	=	
	3.00		x	6.535	=	
	4.00		x	1.107	=	
	6.00		x	15.195	=	
	7.00		x	10.823	=	
	7.50		x	8.737	=	
	8.00		x	7.302	=	
	8.25		x	5.231	=	
	8.50		x	5.509	=	
	8.75		x	8.793	=	
				TOTAL		

TOTAL_____ ÷ 133.72 = MEAN VEL_____

PIPE ID = 10.00" # OF DATA POINTS 17

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	24.880	=	
	0.25		x	6.199	=	
	0.50		x	5.780	=	
	0.75		x	5.366	=	
	1.00		x	7.290	=	
	1.50		x	8.294	=	
	2.00		x	9.507	=	
	3.00		x	7.290	=	
	4.00		x	1.603	=	
	6.00		x	13.750	=	
	7.00		x	10.432	=	
	7.50		x	8.502	=	
	8.00		x	7.143	=	
	8.25		x	5.132	=	
	8.50		x	5.417	=	
	8.75		x	5.698	=	
	9.00		x	9.081	=	
				TOTAL		

TOTAL_____ ÷ 141.24 = MEAN VEL_____

9.75 - 10.00

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PIPE ID = 10.25" # OF DATA POINTS 16

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	25.572	=	_____
_____	0.25	_____	x	6.397	=	_____
_____	0.50	_____	x	5.978	=	_____
_____	0.75	_____	x	5.564	=	_____
_____	1.00	_____	x	7.587	=	_____
_____	1.50	_____	x	8.689	=	_____
_____	2.00	_____	x	10.093	=	_____
_____	3.00	_____	x	8.049	=	_____
_____	4.00	_____	x	2.192	=	_____
_____	6.00	_____	x	12.357	=	_____
_____	7.00	_____	x	14.034	=	_____
_____	8.00	_____	x	13.700	=	_____
_____	8.50	_____	x	7.854	=	_____
_____	8.75	_____	x	5.604	=	_____
_____	9.00	_____	x	5.888	=	_____
_____	9.25	_____	x	9.370	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 148.99 = MEAN VEL_____

PIPE ID = 10.50" # OF DATA POINTS 17

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	26.263	=	_____
_____	0.25	_____	x	6.595	=	_____
_____	0.50	_____	x	6.176	=	_____
_____	0.75	_____	x	5.762	=	_____
_____	1.00	_____	x	7.884	=	_____
_____	1.50	_____	x	9.083	=	_____
_____	2.00	_____	x	10.679	=	_____
_____	3.00	_____	x	8.811	=	_____
_____	4.00	_____	x	2.877	=	_____
_____	6.00	_____	x	11.022	=	_____
_____	7.00	_____	x	13.475	=	_____
_____	8.00	_____	x	13.338	=	_____
_____	8.50	_____	x	7.691	=	_____
_____	8.75	_____	x	5.502	=	_____
_____	9.00	_____	x	5.792	=	_____
_____	9.25	_____	x	6.078	=	_____
_____	9.50	_____	x	9.659	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 156.95 = MEAN VEL_____

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PIPE ID = 10.75" # OF DATA POINTS 17						
REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	26.955	=	_____
_____	0.25	_____	x	6.792	=	_____
_____	0.50	_____	x	6.375	=	_____
_____	0.75	_____	x	5.960	=	_____
_____	1.00	_____	x	8.181	=	_____
_____	1.50	_____	x	9.478	=	_____
_____	2.00	_____	x	11.265	=	_____
_____	3.00	_____	x	9.576	=	_____
_____	4.00	_____	x	3.656	=	_____
_____	6.00	_____	x	9.750	=	_____
_____	7.00	_____	x	12.899	=	_____
_____	8.00	_____	x	12.957	=	_____
_____	8.50	_____	x	10.188	=	_____
_____	9.00	_____	x	8.410	=	_____
_____	9.25	_____	x	5.980	=	_____
_____	9.50	_____	x	6.268	=	_____
_____	9.75	_____	x	9.948	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 165.13 = MEAN VEL_____

PIPE ID = 11.00" # OF DATA POINTS 18						
REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	27.646	=	_____
_____	0.25	_____	x	6.990	=	_____
_____	0.50	_____	x	6.573	=	_____
_____	0.75	_____	x	6.158	=	_____
_____	1.00	_____	x	8.478	=	_____
_____	1.50	_____	x	9.873	=	_____
_____	2.00	_____	x	11.853	=	_____
_____	3.00	_____	x	10.343	=	_____
_____	4.00	_____	x	4.531	=	_____
_____	6.00	_____	x	8.544	=	_____
_____	7.00	_____	x	12.306	=	_____
_____	8.00	_____	x	12.561	=	_____
_____	8.50	_____	x	9.945	=	_____
_____	9.00	_____	x	8.243	=	_____
_____	9.25	_____	x	5.874	=	_____
_____	9.50	_____	x	6.168	=	_____
_____	9.75	_____	x	6.458	=	_____
_____	10.00	_____	x	10.238	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 173.54 = MEAN VEL_____

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PIPE ID = 11.25" # OF DATA POINTS 16

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	28.337	=	_____
_____	0.25	_____	x	7.188	=	_____
_____	0.50	_____	x	6.771	=	_____
_____	0.75	_____	x	6.356	=	_____
_____	1.00	_____	x	8.775	=	_____
_____	1.50	_____	x	10.268	=	_____
_____	2.00	_____	x	12.441	=	_____
_____	3.00	_____	x	11.113	=	_____
_____	4.00	_____	x	5.503	=	_____
_____	6.00	_____	x	12.668	=	_____
_____	8.00	_____	x	23.287	=	_____
_____	9.00	_____	x	15.884	=	_____
_____	9.50	_____	x	8.968	=	_____
_____	9.75	_____	x	6.356	=	_____
_____	10.00	_____	x	6.649	=	_____
_____	10.25	_____	x	10.527	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 182.16 = MEAN VEL_____

PIPE ID = 11.50" # OF DATA POINTS 17

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	29.028	=	_____
_____	0.25	_____	x	7.386	=	_____
_____	0.50	_____	x	6.968	=	_____
_____	0.75	_____	x	6.555	=	_____
_____	1.00	_____	x	9.072	=	_____
_____	1.50	_____	x	10.663	=	_____
_____	2.00	_____	x	13.030	=	_____
_____	3.00	_____	x	11.884	=	_____
_____	4.00	_____	x	6.571	=	_____
_____	6.00	_____	x	11.279	=	_____
_____	8.00	_____	x	22.431	=	_____
_____	9.00	_____	x	15.511	=	_____
_____	9.50	_____	x	8.797	=	_____
_____	9.75	_____	x	6.248	=	_____
_____	10.00	_____	x	6.545	=	_____
_____	10.25	_____	x	6.839	=	_____
_____	10.50	_____	x	10.817	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 191.01 = MEAN VEL_____

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PIPE ID = 11.75" # OF DATA POINTS 17

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	29.718	=	
	0.25		x	7.583	=	
	0.50		x	7.166	=	
	0.75		x	6.753	=	
	1.00		x	9.369	=	
	1.50		x	11.059	=	
	2.00		x	13.619	=	
	3.00		x	12.657	=	
	4.00		x	7.737	=	
	6.00		x	9.961	=	
	8.00		x	21.552	=	
	9.00		x	15.123	=	
	9.50		x	11.656	=	
	10.00		x	9.529	=	
	10.25		x	6.734	=	
	10.50		x	7.031	=	
	10.75		x	11.107	=	
				TOTAL		

TOTAL_____ ÷ 200.09 = MEAN VEL_____

PIPE ID = 12.00" # OF DATA POINTS 18

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	30.409	=	
	0.25		x	7.781	=	
	0.50		x	7.364	=	
	0.75		x	6.951	=	
	1.00		x	9.666	=	
	1.50		x	11.454	=	
	2.00		x	14.209	=	
	3.00		x	13.432	=	
	4.00		x	9.000	=	
	6.00		x	8.716	=	
	8.00		x	20.651	=	
	9.00		x	14.720	=	
	9.50		x	11.407	=	
	10.00		x	9.354	=	
	10.25		x	6.623	=	
	10.50		x	6.924	=	
	10.75		x	7.222	=	
	11.00		x	11.398	=	
				TOTAL		

TOTAL_____ ÷ 209.38 = MEAN VEL_____

11.75 - 12.00

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PIPE ID = 12.25" # OF DATA POINTS 17

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	31.100	=	_____
_____	0.25	_____	x	7.978	=	_____
_____	0.50	_____	x	7.562	=	_____
_____	0.75	_____	x	7.149	=	_____
_____	1.00	_____	x	9.962	=	_____
_____	1.50	_____	x	11.850	=	_____
_____	2.00	_____	x	14.799	=	_____
_____	3.00	_____	x	14.209	=	_____
_____	4.00	_____	x	10.360	=	_____
_____	6.00	_____	x	7.547	=	_____
_____	8.00	_____	x	19.730	=	_____
_____	9.00	_____	x	19.754	=	_____
_____	10.00	_____	x	18.092	=	_____
_____	10.50	_____	x	10.092	=	_____
_____	10.75	_____	x	7.114	=	_____
_____	11.00	_____	x	7.413	=	_____
_____	11.25	_____	x	11.688	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 218.90 = MEAN VEL_____

PIPE ID = 12.50" # OF DATA POINTS 18

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	31.790	=	_____
_____	0.25	_____	x	8.176	=	_____
_____	0.50	_____	x	7.760	=	_____
_____	0.75	_____	x	7.347	=	_____
_____	1.00	_____	x	10.259	=	_____
_____	1.50	_____	x	12.245	=	_____
_____	2.00	_____	x	15.390	=	_____
_____	3.00	_____	x	14.986	=	_____
_____	4.00	_____	x	11.818	=	_____
_____	6.00	_____	x	6.456	=	_____
_____	8.00	_____	x	18.791	=	_____
_____	9.00	_____	x	19.188	=	_____
_____	10.00	_____	x	17.709	=	_____
_____	10.50	_____	x	9.914	=	_____
_____	10.75	_____	x	7.000	=	_____
_____	11.00	_____	x	7.304	=	_____
_____	11.25	_____	x	7.605	=	_____
_____	11.50	_____	x	11.979	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 228.65 = MEAN VEL_____

12.25 - 12.50

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PIPE ID = 12.75" # OF DATA POINTS 18

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	32.480	=	_____
_____	0.25	_____	x	8.373	=	_____
_____	0.50	_____	x	7.958	=	_____
_____	0.75	_____	x	7.544	=	_____
_____	1.00	_____	x	10.556	=	_____
_____	1.50	_____	x	12.641	=	_____
_____	2.00	_____	x	15.980	=	_____
_____	3.00	_____	x	15.765	=	_____
_____	4.00	_____	x	13.375	=	_____
_____	6.00	_____	x	5.445	=	_____
_____	8.00	_____	x	17.836	=	_____
_____	9.00	_____	x	18.608	=	_____
_____	10.00	_____	x	17.313	=	_____
_____	10.50	_____	x	13.139	=	_____
_____	11.00	_____	x	10.657	=	_____
_____	11.25	_____	x	7.494	=	_____
_____	11.50	_____	x	7.797	=	_____
_____	11.75	_____	x	12.270	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 238.62 = MEAN VEL_____

PIPE ID = 13.00" # OF DATA POINTS 19

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	33.170	=	_____
_____	0.25	_____	x	8.571	=	_____
_____	0.50	_____	x	8.155	=	_____
_____	0.75	_____	x	7.742	=	_____
_____	1.00	_____	x	10.853	=	_____
_____	1.50	_____	x	13.036	=	_____
_____	2.00	_____	x	16.571	=	_____
_____	3.00	_____	x	16.545	=	_____
_____	4.00	_____	x	15.029	=	_____
_____	6.00	_____	x	4.515	=	_____
_____	8.00	_____	x	16.865	=	_____
_____	9.00	_____	x	18.014	=	_____
_____	10.00	_____	x	16.904	=	_____
_____	10.50	_____	x	12.883	=	_____
_____	11.00	_____	x	10.475	=	_____
_____	11.25	_____	x	7.377	=	_____
_____	11.50	_____	x	7.684	=	_____
_____	11.75	_____	x	7.989	=	_____
_____	12.00	_____	x	12.560	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 248.82 = MEAN VEL_____

12.75 - 13.00

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PIPE ID = 13.25" # OF DATA POINTS 17

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	33.860	=	_____
_____	0.25	_____	x	8.768	=	_____
_____	0.50	_____	x	8.353	=	_____
_____	0.75	_____	x	7.940	=	_____
_____	1.00	_____	x	11.150	=	_____
_____	1.50	_____	x	13.432	=	_____
_____	2.00	_____	x	17.162	=	_____
_____	3.00	_____	x	17.325	=	_____
_____	4.00	_____	x	16.782	=	_____
_____	6.00	_____	x	3.669	=	_____
_____	8.00	_____	x	23.997	=	_____
_____	10.00	_____	x	31.937	=	_____
_____	11.00	_____	x	20.320	=	_____
_____	11.50	_____	x	11.224	=	_____
_____	11.75	_____	x	7.875	=	_____
_____	12.00	_____	x	8.181	=	_____
_____	12.25	_____	x	12.852	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 259.24 = MEAN VEL_____

PIPE ID = 13.50" # OF DATA POINTS 18

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	34.550	=	_____
_____	0.25	_____	x	8.966	=	_____
_____	0.50	_____	x	8.551	=	_____
_____	0.75	_____	x	8.138	=	_____
_____	1.00	_____	x	11.446	=	_____
_____	1.50	_____	x	13.827	=	_____
_____	2.00	_____	x	17.754	=	_____
_____	3.00	_____	x	18.107	=	_____
_____	4.00	_____	x	15.652	=	_____
_____	6.00	_____	x	5.816	=	_____
_____	8.00	_____	x	22.679	=	_____
_____	10.00	_____	x	31.069	=	_____
_____	11.00	_____	x	19.928	=	_____
_____	11.50	_____	x	11.039	=	_____
_____	11.75	_____	x	7.756	=	_____
_____	12.00	_____	x	8.066	=	_____
_____	12.25	_____	x	8.373	=	_____
_____	12.50	_____	x	13.143	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 269.90 = MEAN VEL_____

13.25 - 12.50

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PIPE ID = 13.75" # OF DATA POINTS 18

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	35.240	=	
	0.25		x	9.163	=	
	0.50		x	8.748	=	
	0.75		x	8.336	=	
	1.00		x	11.743	=	
	1.50		x	14.223	=	
	2.00		x	18.345	=	
	3.00		x	18.889	=	
	4.00		x	16.802	=	
	6.00		x	3.691	=	
	8.00		x	23.524	=	
	10.00		x	30.183	=	
	11.00		x	19.524	=	
	11.50		x	14.634	=	
	12.00		x	11.792	=	
	12.25		x	8.257	=	
	12.50		x	8.566	=	
	12.75		x	13.434	=	
				TOTAL		

TOTAL_____ ÷ 280.78 = MEAN VEL_____

PIPE ID = 14.00" # OF DATA POINTS 19

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	35.930	=	
	0.25		x	9.360	=	
	0.50		x	8.946	=	
	0.75		x	8.533	=	
	1.00		x	12.040	=	
	1.50		x	14.618	=	
	2.00		x	18.937	=	
	3.00		x	19.672	=	
	4.00		x	17.955	=	
	6.00		x	4.569	=	
	8.00		x	21.602	=	
	10.00		x	29.278	=	
	11.00		x	19.108	=	
	11.50		x	14.371	=	
	12.00		x	11.604	=	
	12.25		x	8.135	=	
	12.50		x	8.448	=	
	12.75		x	8.758	=	
	13.00		x	13.725	=	
				TOTAL		

TOTAL_____ ÷ 291.89 = MEAN VEL_____

13.75 - 14.00

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PIPE ID = 14.25" # OF DATA POINTS 18

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	36.619	=	_____
_____	0.25	_____	x	9.558	=	_____
_____	0.50	_____	x	9.143	=	_____
_____	0.75	_____	x	8.731	=	_____
_____	1.00	_____	x	12.336	=	_____
_____	1.50	_____	x	15.014	=	_____
_____	2.00	_____	x	19.529	=	_____
_____	3.00	_____	x	20.456	=	_____
_____	4.00	_____	x	19.110	=	_____
_____	6.00	_____	x	5.543	=	_____
_____	8.00	_____	x	19.751	=	_____
_____	10.00	_____	x	28.357	=	_____
_____	11.00	_____	x	25.602	=	_____
_____	12.00	_____	x	22.564	=	_____
_____	12.50	_____	x	12.361	=	_____
_____	12.75	_____	x	8.639	=	_____
_____	13.00	_____	x	8.951	=	_____
_____	13.25	_____	x	14.017	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 303.22 = MEAN VEL_____

PIPE ID = 14.50" # OF DATA POINTS 19

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	37.309	=	_____
_____	0.25	_____	x	9.755	=	_____
_____	0.50	_____	x	9.341	=	_____
_____	0.75	_____	x	8.929	=	_____
_____	1.00	_____	x	12.633	=	_____
_____	1.50	_____	x	15.409	=	_____
_____	2.00	_____	x	20.121	=	_____
_____	3.00	_____	x	21.240	=	_____
_____	4.00	_____	x	20.268	=	_____
_____	6.00	_____	x	6.613	=	_____
_____	8.00	_____	x	17.973	=	_____
_____	10.00	_____	x	27.420	=	_____
_____	11.00	_____	x	25.025	=	_____
_____	12.00	_____	x	22.163	=	_____
_____	12.50	_____	x	12.171	=	_____
_____	12.75	_____	x	8.516	=	_____
_____	13.00	_____	x	8.831	=	_____
_____	13.25	_____	x	9.144	=	_____
_____	13.50	_____	x	14.309	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 314.79 = MEAN VEL_____

14.25 - 14.50

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PIPE ID = 14.75" # OF DATA POINTS 19

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	37.999	=	
	0.25		x	9.952	=	
	0.50		x	9.538	=	
	0.75		x	9.126	=	
	1.00		x	12.930	=	
	1.50		x	15.805	=	
	2.00		x	20.713	=	
	3.00		x	22.025	=	
	4.00		x	21.427	=	
	6.00		x	7.779	=	
	8.00		x	16.271	=	
	10.00		x	26.469	=	
	11.00		x	24.436	=	
	12.00		x	21.751	=	
	12.50		x	16.137	=	
	13.00		x	12.932	=	
	13.25		x	9.023	=	
	13.50		x	9.337	=	
	13.75		x	14.600	=	
				TOTAL		

TOTAL_____ ÷ 326.59 = MEAN VEL_____

PIPE ID = 15.00" # OF DATA POINTS 20

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	38.688	=	
	0.25		x	10.149	=	
	0.50		x	9.736	=	
	0.75		x	9.324	=	
	1.00		x	13.226	=	
	1.50		x	16.200	=	
	2.00		x	21.305	=	
	3.00		x	22.810	=	
	4.00		x	22.588	=	
	6.00		x	9.042	=	
	8.00		x	14.647	=	
	10.00		x	25.505	=	
	11.00		x	23.836	=	
	12.00		x	21.330	=	
	12.50		x	15.869	=	
	13.00		x	12.738	=	
	13.25		x	8.897	=	
	13.50		x	9.214	=	
	13.75		x	9.530	=	
	14.00		x	14.892	=	
				TOTAL		

TOTAL_____ ÷ 338.61 = MEAN VEL_____

14.75 - 15.00

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PIPE ID = 15.25" # OF DATA POINTS 18

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	39.377	=	_____
_____	0.25	_____	x	10.346	=	_____
_____	0.50	_____	x	9.933	=	_____
_____	0.75	_____	x	9.522	=	_____
_____	1.00	_____	x	13.523	=	_____
_____	1.50	_____	x	16.596	=	_____
_____	2.00	_____	x	21.897	=	_____
_____	3.00	_____	x	23.596	=	_____
_____	4.00	_____	x	23.751	=	_____
_____	6.00	_____	x	10.401	=	_____
_____	8.00	_____	x	13.101	=	_____
_____	10.00	_____	x	35.549	=	_____
_____	12.00	_____	x	40.753	=	_____
_____	13.00	_____	x	24.821	=	_____
_____	13.50	_____	x	13.503	=	_____
_____	13.75	_____	x	9.406	=	_____
_____	14.00	_____	x	9.723	=	_____
_____	14.25	_____	x	15.184	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 350.87 = MEAN VEL_____

PIPE ID = 15.50" # OF DATA POINTS 19

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	40.067	=	_____
_____	0.25	_____	x	10.544	=	_____
_____	0.50	_____	x	10.131	=	_____
_____	0.75	_____	x	9.719	=	_____
_____	1.00	_____	x	13.819	=	_____
_____	1.50	_____	x	16.991	=	_____
_____	2.00	_____	x	22.489	=	_____
_____	3.00	_____	x	24.382	=	_____
_____	4.00	_____	x	24.915	=	_____
_____	6.00	_____	x	11.858	=	_____
_____	8.00	_____	x	11.636	=	_____
_____	10.00	_____	x	34.241	=	_____
_____	12.00	_____	x	39.870	=	_____
_____	13.00	_____	x	24.412	=	_____
_____	13.50	_____	x	13.308	=	_____
_____	13.75	_____	x	9.279	=	_____
_____	14.00	_____	x	9.598	=	_____
_____	14.25	_____	x	9.916	=	_____
_____	14.50	_____	x	15.476	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 363.36 = MEAN VEL_____

15.25 - 15.50

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PIPE ID = 15.75" # OF DATA POINTS 19						
REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	40.756	=	
	0.25		x	10.741	=	
	0.50		x	10.328	=	
	0.75		x	9.917	=	
	1.00		x	14.115	=	
	1.50		x	17.387	=	
	2.00		x	23.082	=	
	3.00		x	25.168	=	
	4.00		x	26.080	=	
	6.00		x	13.412	=	
	8.00		x	10.253	=	
	10.00		x	32.919	=	
	12.00		x	38.971	=	
	13.00		x	23.994	=	
	13.50		x	17.649	=	
	14.00		x	14.076	=	
	14.25		x	9.791	=	
	14.50		x	10.109	=	
	14.75		x	15.768	=	
					TOTAL	

TOTAL_____ ÷ 376.08 = MEAN VEL_____

PIPE ID = 16.00" # OF DATA POINTS 20						
REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	41.445	=	
	0.25		x	10.938	=	
	0.50		x	10.525	=	
	0.75		x	10.114	=	
	1.00		x	14.412	=	
	1.50		x	17.782	=	
	2.00		x	23.674	=	
	3.00		x	25.955	=	
	4.00		x	27.247	=	
	6.00		x	15.063	=	
	8.00		x	8.952	=	
	10.00		x	31.583	=	
	12.00		x	38.057	=	
	13.00		x	23.566	=	
	13.50		x	17.375	=	
	14.00		x	13.878	=	
	14.25		x	9.662	=	
	14.50		x	9.983	=	
	14.75		x	10.303	=	
	15.00		x	16.060	=	
					TOTAL	

TOTAL_____ ÷ 389.04 = MEAN VEL_____

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PIPE ID = 16.25" # OF DATA POINTS 19

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____ ×	42.134 =	_____
_____	0.25	_____ ×	11.135 =	_____
_____	0.50	_____ ×	10.723 =	_____
_____	0.75	_____ ×	10.312 =	_____
_____	1.00	_____ ×	14.708 =	_____
_____	1.50	_____ ×	18.178 =	_____
_____	2.00	_____ ×	24.266 =	_____
_____	3.00	_____ ×	26.742 =	_____
_____	4.00	_____ ×	28.415 =	_____
_____	6.00	_____ ×	16.811 =	_____
_____	8.00	_____ ×	7.737 =	_____
_____	10.00	_____ ×	30.234 =	_____
_____	12.00	_____ ×	37.130 =	_____
_____	13.00	_____ ×	31.541 =	_____
_____	14.00	_____ ×	27.090 =	_____
_____	14.50	_____ ×	14.650 =	_____
_____	14.75	_____ ×	10.176 =	_____
_____	15.00	_____ ×	10.496 =	_____
_____	15.25	_____ ×	16.352 =	_____
			TOTAL	_____

TOTAL_____ ÷ 402.22 = MEAN VEL_____

PIPE ID = 16.50" # OF DATA POINTS 20

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____ ×	42.823 =	_____
_____	0.25	_____ ×	11.332 =	_____
_____	0.50	_____ ×	10.920 =	_____
_____	0.75	_____ ×	10.509 =	_____
_____	1.00	_____ ×	15.005 =	_____
_____	1.50	_____ ×	18.573 =	_____
_____	2.00	_____ ×	24.859 =	_____
_____	3.00	_____ ×	27.529 =	_____
_____	4.00	_____ ×	29.584 =	_____
_____	6.00	_____ ×	18.658 =	_____
_____	8.00	_____ ×	6.607 =	_____
_____	10.00	_____ ×	28.873 =	_____
_____	12.00	_____ ×	36.189 =	_____
_____	13.00	_____ ×	30.952 =	_____
_____	14.00	_____ ×	26.673 =	_____
_____	14.50	_____ ×	14.450 =	_____
_____	14.75	_____ ×	10.045 =	_____
_____	15.00	_____ ×	10.368 =	_____
_____	15.25	_____ ×	10.690 =	_____
_____	15.50	_____ ×	16.645 =	_____
			TOTAL	_____

TOTAL_____ ÷ 415.64 = MEAN VEL_____

16.25 - 16.75

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PIPE ID = 16.75" # OF DATA POINTS 20

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	43.512	=	
	0.25		x	11.529	=	
	0.50		x	11.117	=	
	0.75		x	10.707	=	
	1.00		x	15.301	=	
	1.50		x	18.968	=	
	2.00		x	25.451	=	
	3.00		x	28.316	=	
	4.00		x	30.754	=	
	6.00		x	20.602	=	
	8.00		x	5.563	=	
	10.00		x	27.501	=	
	12.00		x	35.235	=	
	13.00		x	30.353	=	
	14.00		x	26.248	=	
	14.50		x	19.167	=	
	15.00		x	15.225	=	
	15.25		x	10.561	=	
	15.50		x	10.884	=	
	15.75		x	16.937	=	
					TOTAL	

TOTAL_____ ÷ 429.30 = MEAN VEL_____

PIPE ID = 17.00" # OF DATA POINTS 21

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	44.201	=	
	0.25		x	11.726	=	
	0.50		x	11.314	=	
	0.75		x	10.904	=	
	1.00		x	15.597	=	
	1.50		x	19.363	=	
	2.00		x	26.043	=	
	3.00		x	29.104	=	
	4.00		x	31.925	=	
	6.00		x	22.645	=	
	8.00		x	4.607	=	
	10.00		x	26.118	=	
	12.00		x	34.271	=	
	13.00		x	29.745	=	
	14.00		x	25.815	=	
	14.50		x	18.888	=	
	15.00		x	15.022	=	
	15.25		x	10.428	=	
	15.50		x	10.754	=	
	15.75		x	11.077	=	
	16.00		x	17.229	=	
					TOTAL	

TOTAL_____ ÷ 443.19 = MEAN VEL_____

17.00 - 17.25

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PIPE ID = 17.25" # OF DATA POINTS 19

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	44.890	=	_____
_____	0.25	_____	x	11.923	=	_____
_____	0.50	_____	x	11.512	=	_____
_____	0.75	_____	x	11.102	=	_____
_____	1.00	_____	x	15.893	=	_____
_____	1.50	_____	x	19.759	=	_____
_____	2.00	_____	x	26.636	=	_____
_____	3.00	_____	x	29.892	=	_____
_____	4.00	_____	x	33.097	=	_____
_____	6.00	_____	x	24.785	=	_____
_____	8.00	_____	x	3.738	=	_____
_____	10.00	_____	x	24.726	=	_____
_____	12.00	_____	x	47.258	=	_____
_____	14.00	_____	x	49.690	=	_____
_____	15.00	_____	x	29.367	=	_____
_____	15.50	_____	x	15.800	=	_____
_____	15.75	_____	x	10.947	=	_____
_____	16.00	_____	x	11.271	=	_____
_____	16.25	_____	x	17.522	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 457.31 = MEAN VEL_____

PIPE ID = 17.50" # OF DATA POINTS 20

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	45.579	=	_____
_____	0.25	_____	x	12.120	=	_____
_____	0.50	_____	x	11.709	=	_____
_____	0.75	_____	x	11.299	=	_____
_____	1.00	_____	x	16.189	=	_____
_____	1.50	_____	x	20.154	=	_____
_____	2.00	_____	x	27.228	=	_____
_____	3.00	_____	x	30.679	=	_____
_____	4.00	_____	x	34.269	=	_____
_____	6.00	_____	x	24.021	=	_____
_____	8.00	_____	x	5.918	=	_____
_____	10.00	_____	x	23.324	=	_____
_____	12.00	_____	x	45.952	=	_____
_____	14.00	_____	x	48.791	=	_____
_____	15.00	_____	x	28.944	=	_____
_____	15.50	_____	x	15.595	=	_____
_____	15.75	_____	x	10.813	=	_____
_____	16.00	_____	x	11.140	=	_____
_____	16.25	_____	x	11.465	=	_____
_____	16.50	_____	x	17.814	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 471.66 = MEAN VEL_____

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PIPE ID = 17.75" # OF DATA POINTS 20

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	46.268	=	_____
_____	0.25	_____	x	12.317	=	_____
_____	0.50	_____	x	11.906	=	_____
_____	0.75	_____	x	11.496	=	_____
_____	1.00	_____	x	16.486	=	_____
_____	1.50	_____	x	20.549	=	_____
_____	2.00	_____	x	27.821	=	_____
_____	3.00	_____	x	31.468	=	_____
_____	4.00	_____	x	35.443	=	_____
_____	6.00	_____	x	25.555	=	_____
_____	8.00	_____	x	3.752	=	_____
_____	10.00	_____	x	24.151	=	_____
_____	12.00	_____	x	44.633	=	_____
_____	14.00	_____	x	47.878	=	_____
_____	15.00	_____	x	28.512	=	_____
_____	15.50	_____	x	20.690	=	_____
_____	16.00	_____	x	16.376	=	_____
_____	16.25	_____	x	11.333	=	_____
_____	16.50	_____	x	11.659	=	_____
_____	16.75	_____	x	18.107	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 486.26 = MEAN VEL_____

PIPE ID = 18.00" # OF DATA POINTS 21

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	46.957	=	_____
_____	0.25	_____	x	12.514	=	_____
_____	0.50	_____	x	12.103	=	_____
_____	0.75	_____	x	11.694	=	_____
_____	1.00	_____	x	16.782	=	_____
_____	1.50	_____	x	20.944	=	_____
_____	2.00	_____	x	28.413	=	_____
_____	3.00	_____	x	32.256	=	_____
_____	4.00	_____	x	36.617	=	_____
_____	6.00	_____	x	27.092	=	_____
_____	8.00	_____	x	4.639	=	_____
_____	10.00	_____	x	22.142	=	_____
_____	12.00	_____	x	43.301	=	_____
_____	14.00	_____	x	46.952	=	_____
_____	15.00	_____	x	28.074	=	_____
_____	15.50	_____	x	20.407	=	_____
_____	16.00	_____	x	16.169	=	_____
_____	16.25	_____	x	11.197	=	_____
_____	16.50	_____	x	11.526	=	_____
_____	16.75	_____	x	11.853	=	_____
_____	17.00	_____	x	18.400	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 501.08 = MEAN VEL_____

PIPE ID = 18.25" # OF DATA POINTS 20

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	47.646	=	_____
_____	0.25	_____	x	12.711	=	_____
_____	0.50	_____	x	12.300	=	_____
_____	0.75	_____	x	11.891	=	_____
_____	1.00	_____	x	17.078	=	_____
_____	1.50	_____	x	21.339	=	_____
_____	2.00	_____	x	29.005	=	_____
_____	3.00	_____	x	33.044	=	_____
_____	4.00	_____	x	37.791	=	_____
_____	6.00	_____	x	28.631	=	_____
_____	8.00	_____	x	5.622	=	_____
_____	10.00	_____	x	20.215	=	_____
_____	12.00	_____	x	41.959	=	_____
_____	14.00	_____	x	46.015	=	_____
_____	15.00	_____	x	37.546	=	_____
_____	16.00	_____	x	31.653	=	_____
_____	16.50	_____	x	16.953	=	_____
_____	16.75	_____	x	11.719	=	_____
_____	17.00	_____	x	12.047	=	_____
_____	17.25	_____	x	18.692	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 516.15 = MEAN VEL_____

PIPE ID = 18.50" # OF DATA POINTS 21

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	48.334	=	_____
_____	0.25	_____	x	12.908	=	_____
_____	0.50	_____	x	12.498	=	_____
_____	0.75	_____	x	12.088	=	_____
_____	1.00	_____	x	17.374	=	_____
_____	1.50	_____	x	21.734	=	_____
_____	2.00	_____	x	29.598	=	_____
_____	3.00	_____	x	33.833	=	_____
_____	4.00	_____	x	38.967	=	_____
_____	6.00	_____	x	30.172	=	_____
_____	8.00	_____	x	6.701	=	_____
_____	10.00	_____	x	18.371	=	_____
_____	12.00	_____	x	40.605	=	_____
_____	14.00	_____	x	45.067	=	_____
_____	15.00	_____	x	36.945	=	_____
_____	16.00	_____	x	31.223	=	_____
_____	16.50	_____	x	16.744	=	_____
_____	16.75	_____	x	11.582	=	_____
_____	17.00	_____	x	11.912	=	_____
_____	17.25	_____	x	12.242	=	_____
_____	17.50	_____	x	18.985	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 531.45 = MEAN VEL_____

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PIPE ID = 18.75" # OF DATA POINTS 21

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	49.023	=	
	0.25		x	13.105	=	
	0.50		x	12.695	=	
	0.75		x	12.285	=	
	1.00		x	17.670	=	
	1.50		x	22.129	=	
	2.00		x	30.190	=	
	3.00		x	34.621	=	
	4.00		x	40.142	=	
	6.00		x	31.716	=	
	8.00		x	7.876	=	
	10.00		x	16.610	=	
	12.00		x	39.241	=	
	14.00		x	44.108	=	
	15.00		x	36.335	=	
	16.00		x	30.786	=	
	16.50		x	22.218	=	
	17.00		x	17.530	=	
	17.25		x	12.106	=	
	17.50		x	12.436	=	
	17.75		x	19.278	=	
				TOTAL		

TOTAL_____ ÷ 546.98 = MEAN VEL_____

PIPE ID = 19.00" # OF DATA POINTS 22

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	49.712	=	
	0.25		x	13.302	=	
	0.50		x	12.892	=	
	0.75		x	12.483	=	
	1.00		x	17.966	=	
	1.50		x	22.524	=	
	2.00		x	30.782	=	
	3.00		x	35.410	=	
	4.00		x	41.319	=	
	6.00		x	33.261	=	
	8.00		x	9.147	=	
	10.00		x	14.933	=	
	12.00		x	37.867	=	
	14.00		x	43.139	=	
	15.00		x	35.718	=	
	16.00		x	30.342	=	
	16.50		x	21.931	=	
	17.00		x	17.320	=	
	17.25		x	11.968	=	
	17.50		x	12.299	=	
	17.75		x	12.630	=	
	18.00		x	19.571	=	
				TOTAL		

TOTAL_____ ÷ 562.76 = MEAN VEL_____

18.75 - 19.00

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PIPE ID = 19.25" # OF DATA POINTS 20

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	50.400	=	_____
_____	0.25	_____	x	13.499	=	_____
_____	0.50	_____	x	13.089	=	_____
_____	0.75	_____	x	12.680	=	_____
_____	1.00	_____	x	18.262	=	_____
_____	1.50	_____	x	22.919	=	_____
_____	2.00	_____	x	31.375	=	_____
_____	3.00	_____	x	36.199	=	_____
_____	4.00	_____	x	42.495	=	_____
_____	6.00	_____	x	34.808	=	_____
_____	8.00	_____	x	10.514	=	_____
_____	10.00	_____	x	13.343	=	_____
_____	12.00	_____	x	36.485	=	_____
_____	14.00	_____	x	59.097	=	_____
_____	16.00	_____	x	58.715	=	_____
_____	17.00	_____	x	33.946	=	_____
_____	17.50	_____	x	18.108	=	_____
_____	17.75	_____	x	12.493	=	_____
_____	18.00	_____	x	12.824	=	_____
_____	18.25	_____	x	19.863	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 578.77 = MEAN VEL_____

PIPE ID = 19.50" # OF DATA POINTS 21

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	51.089	=	_____
_____	0.25	_____	x	13.696	=	_____
_____	0.50	_____	x	13.286	=	_____
_____	0.75	_____	x	12.877	=	_____
_____	1.00	_____	x	18.558	=	_____
_____	1.50	_____	x	23.314	=	_____
_____	2.00	_____	x	31.967	=	_____
_____	3.00	_____	x	36.987	=	_____
_____	4.00	_____	x	43.673	=	_____
_____	6.00	_____	x	36.356	=	_____
_____	8.00	_____	x	11.978	=	_____
_____	10.00	_____	x	11.838	=	_____
_____	12.00	_____	x	35.093	=	_____
_____	14.00	_____	x	57.788	=	_____
_____	16.00	_____	x	57.800	=	_____
_____	17.00	_____	x	33.509	=	_____
_____	17.50	_____	x	17.896	=	_____
_____	17.75	_____	x	12.353	=	_____
_____	18.00	_____	x	12.687	=	_____
_____	18.25	_____	x	13.019	=	_____
_____	18.50	_____	x	20.156	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 595.02 = MEAN VEL_____

19.25 - 19.50

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PIPE ID = 19.75" # OF DATA POINTS 21

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	51.777	=	_____
_____	0.25	_____	x	13.893	=	_____
_____	0.50	_____	x	13.483	=	_____
_____	0.75	_____	x	13.074	=	_____
_____	1.00	_____	x	18.854	=	_____
_____	1.50	_____	x	23.709	=	_____
_____	2.00	_____	x	32.559	=	_____
_____	3.00	_____	x	37.776	=	_____
_____	4.00	_____	x	44.850	=	_____
_____	6.00	_____	x	37.906	=	_____
_____	8.00	_____	x	13.539	=	_____
_____	10.00	_____	x	10.421	=	_____
_____	12.00	_____	x	33.694	=	_____
_____	14.00	_____	x	56.467	=	_____
_____	16.00	_____	x	56.873	=	_____
_____	17.00	_____	x	33.067	=	_____
_____	17.50	_____	x	23.751	=	_____
_____	18.00	_____	x	18.687	=	_____
_____	18.25	_____	x	12.880	=	_____
_____	18.50	_____	x	13.213	=	_____
_____	18.75	_____	x	20.449	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 611.51 = MEAN VEL_____

PIPE ID = 20.00" # OF DATA POINTS 22

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	52.466	=	_____
_____	0.25	_____	x	14.090	=	_____
_____	0.50	_____	x	13.680	=	_____
_____	0.75	_____	x	13.272	=	_____
_____	1.00	_____	x	19.150	=	_____
_____	1.50	_____	x	24.104	=	_____
_____	2.00	_____	x	33.151	=	_____
_____	3.00	_____	x	38.565	=	_____
_____	4.00	_____	x	46.028	=	_____
_____	6.00	_____	x	39.458	=	_____
_____	8.00	_____	x	15.197	=	_____
_____	10.00	_____	x	9.091	=	_____
_____	12.00	_____	x	32.287	=	_____
_____	14.00	_____	x	55.135	=	_____
_____	16.00	_____	x	55.936	=	_____
_____	17.00	_____	x	32.618	=	_____
_____	17.50	_____	x	23.459	=	_____
_____	18.00	_____	x	18.473	=	_____
_____	18.25	_____	x	12.739	=	_____
_____	18.50	_____	x	13.074	=	_____
_____	18.75	_____	x	13.408	=	_____
_____	19.00	_____	x	20.742	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 628.24 = MEAN VEL_____

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PIPE ID = 20.25" # OF DATA POINTS 21

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	53.154	=	_____
_____	0.25	_____	x	14.287	=	_____
_____	0.50	_____	x	13.877	=	_____
_____	0.75	_____	x	13.469	=	_____
_____	1.00	_____	x	19.446	=	_____
_____	1.50	_____	x	24.499	=	_____
_____	2.00	_____	x	33.744	=	_____
_____	3.00	_____	x	39.354	=	_____
_____	4.00	_____	x	47.206	=	_____
_____	6.00	_____	x	41.010	=	_____
_____	8.00	_____	x	16.952	=	_____
_____	10.00	_____	x	7.850	=	_____
_____	12.00	_____	x	30.873	=	_____
_____	14.00	_____	x	53.793	=	_____
_____	16.00	_____	x	54.988	=	_____
_____	17.00	_____	x	43.599	=	_____
_____	18.00	_____	x	36.244	=	_____
_____	18.50	_____	x	19.266	=	_____
_____	18.75	_____	x	13.268	=	_____
_____	19.00	_____	x	13.602	=	_____
_____	19.25	_____	x	21.035	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 644.12 = MEAN VEL_____

PIPE ID = 20.50" # OF DATA POINTS 22

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	53.843	=	_____
_____	0.25	_____	x	14.483	=	_____
_____	0.50	_____	x	14.074	=	_____
_____	0.75	_____	x	13.666	=	_____
_____	1.00	_____	x	19.742	=	_____
_____	1.50	_____	x	24.894	=	_____
_____	2.00	_____	x	34.336	=	_____
_____	3.00	_____	x	40.143	=	_____
_____	4.00	_____	x	48.385	=	_____
_____	6.00	_____	x	42.565	=	_____
_____	8.00	_____	x	18.804	=	_____
_____	10.00	_____	x	6.698	=	_____
_____	12.00	_____	x	29.451	=	_____
_____	14.00	_____	x	52.441	=	_____
_____	16.00	_____	x	54.031	=	_____
_____	17.00	_____	x	42.987	=	_____
_____	18.00	_____	x	35.802	=	_____
_____	18.50	_____	x	19.050	=	_____
_____	18.75	_____	x	13.126	=	_____
_____	19.00	_____	x	13.462	=	_____
_____	19.25	_____	x	13.797	=	_____
_____	19.50	_____	x	21.328	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 660.13 = MEAN VEL_____

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PIPE ID = 20.75" # OF DATA POINTS 22

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	54.531	=	
	0.25		x	14.680	=	
	0.50		x	14.271	=	
	0.75		x	13.863	=	
	1.00		x	20.037	=	
	1.50		x	25.289	=	
	2.00		x	34.928	=	
	3.00		x	40.932	=	
	4.00		x	49.564	=	
	6.00		x	44.120	=	
	8.00		x	20.753	=	
	10.00		x	5.636	=	
	12.00		x	28.023	=	
	14.00		x	51.080	=	
	16.00		x	53.065	=	
	17.00		x	42.368	=	
	18.00		x	35.354	=	
	18.50		x	25.286	=	
	19.00		x	19.846	=	
	19.25		x	13.656	=	
	19.50		x	13.991	=	
	19.75		x	21.621	=	
				TOTAL		

TOTAL_____ ÷ 676.33 = MEAN VEL_____

PIPE ID = 21.00" # OF DATA POINTS 23

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	55.220	=	
	0.25		x	14.877	=	
	0.50		x	14.468	=	
	0.75		x	14.060	=	
	1.00		x	20.333	=	
	1.50		x	25.683	=	
	2.00		x	35.520	=	
	3.00		x	41.721	=	
	4.00		x	50.743	=	
	6.00		x	45.676	=	
	8.00		x	22.800	=	
	10.00		x	4.663	=	
	12.00		x	26.589	=	
	14.00		x	49.710	=	
	16.00		x	52.090	=	
	17.00		x	41.742	=	
	18.00		x	34.901	=	
	18.50		x	24.991	=	
	19.00		x	19.628	=	
	19.25		x	13.513	=	
	19.50		x	13.850	=	
	19.75		x	14.186	=	
	20.00		x	21.915	=	
				TOTAL		

TOTAL_____ ÷ 692.72 = MEAN VEL_____

20.75 - 21.00

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PIPE ID = 21.25" # OF DATA POINTS 21

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	55.908	=	_____
_____	0.25	_____	x	15.074	=	_____
_____	0.50	_____	x	14.665	=	_____
_____	0.75	_____	x	14.257	=	_____
_____	1.00	_____	x	20.629	=	_____
_____	1.50	_____	x	26.078	=	_____
_____	2.00	_____	x	36.112	=	_____
_____	3.00	_____	x	42.510	=	_____
_____	4.00	_____	x	51.922	=	_____
_____	6.00	_____	x	47.234	=	_____
_____	8.00	_____	x	24.944	=	_____
_____	10.00	_____	x	3.782	=	_____
_____	12.00	_____	x	25.149	=	_____
_____	14.00	_____	x	48.332	=	_____
_____	16.00	_____	x	71.042	=	_____
_____	18.00	_____	x	67.807	=	_____
_____	19.00	_____	x	38.548	=	_____
_____	19.50	_____	x	20.425	=	_____
_____	19.75	_____	x	14.044	=	_____
_____	20.00	_____	x	14.381	=	_____
_____	20.25	_____	x	22.208	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 709.31 = MEAN VEL_____

PIPE ID = 21.50" # OF DATA POINTS 22

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	56.596	=	_____
_____	0.25	_____	x	15.271	=	_____
_____	0.50	_____	x	14.862	=	_____
_____	0.75	_____	x	14.454	=	_____
_____	1.00	_____	x	20.925	=	_____
_____	1.50	_____	x	26.473	=	_____
_____	2.00	_____	x	36.704	=	_____
_____	3.00	_____	x	43.299	=	_____
_____	4.00	_____	x	53.102	=	_____
_____	6.00	_____	x	48.792	=	_____
_____	8.00	_____	x	24.165	=	_____
_____	10.00	_____	x	5.984	=	_____
_____	12.00	_____	x	23.704	=	_____
_____	14.00	_____	x	46.946	=	_____
_____	16.00	_____	x	69.727	=	_____
_____	18.00	_____	x	66.877	=	_____
_____	19.00	_____	x	38.100	=	_____
_____	19.50	_____	x	20.207	=	_____
_____	19.75	_____	x	13.900	=	_____
_____	20.00	_____	x	14.238	=	_____
_____	20.25	_____	x	14.575	=	_____
_____	20.50	_____	x	22.501	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 726.10 = MEAN VEL_____

21.25 - 21.50

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PIPE ID = 21.75" # OF DATA POINTS 22

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	57.285	=	
	0.25		x	15.468	=	
	0.50		x	15.059	=	
	0.75		x	14.651	=	
	1.00		x	21.221	=	
	1.50		x	26.867	=	
	2.00		x	37.296	=	
	3.00		x	44.088	=	
	4.00		x	54.282	=	
	6.00		x	50.352	=	
	8.00		x	25.699	=	
	10.00		x	3.791	=	
	12.00		x	24.525	=	
	14.00		x	45.552	=	
	16.00		x	68.401	=	
	18.00		x	65.937	=	
	19.00		x	37.648	=	
	19.50		x	26.825	=	
	20.00		x	21.006	=	
	20.25		x	14.432	=	
	20.50		x	14.770	=	
	20.75		x	22.794	=	
				TOTAL		

TOTAL_____ ÷ 743.08 = MEAN VEL_____

PIPE ID = 22.00" # OF DATA POINTS 23

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	57.973	=	
	0.25		x	15.664	=	
	0.50		x	15.256	=	
	0.75		x	14.848	=	
	1.00		x	21.516	=	
	1.50		x	27.262	=	
	2.00		x	37.888	=	
	3.00		x	44.877	=	
	4.00		x	55.462	=	
	6.00		x	51.912	=	
	8.00		x	27.235	=	
	10.00		x	4.685	=	
	12.00		x	22.468	=	
	14.00		x	44.152	=	
	16.00		x	67.066	=	
	18.00		x	64.988	=	
	19.00		x	37.190	=	
	19.50		x	26.526	=	
	20.00		x	20.785	=	
	20.25		x	14.287	=	
	20.50		x	14.626	=	
	20.75		x	14.965	=	
	21.00		x	23.087	=	
				TOTAL		

TOTAL_____ ÷ 760.27 = MEAN VEL_____

21.75 - 22.00

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PIPE ID = 22.25" # OF DATA POINTS 22

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	58.661	=	_____
_____	0.25	_____	x	15.861	=	_____
_____	0.50	_____	x	15.453	=	_____
_____	0.75	_____	x	15.046	=	_____
_____	1.00	_____	x	21.812	=	_____
_____	1.50	_____	x	27.657	=	_____
_____	2.00	_____	x	38.480	=	_____
_____	3.00	_____	x	45.667	=	_____
_____	4.00	_____	x	56.642	=	_____
_____	6.00	_____	x	53.473	=	_____
_____	8.00	_____	x	28.773	=	_____
_____	10.00	_____	x	5.675	=	_____
_____	12.00	_____	x	20.498	=	_____
_____	14.00	_____	x	42.744	=	_____
_____	16.00	_____	x	65.721	=	_____
_____	18.00	_____	x	64.030	=	_____
_____	19.00	_____	x	49.689	=	_____
_____	20.00	_____	x	40.856	=	_____
_____	20.50	_____	x	21.587	=	_____
_____	20.75	_____	x	14.820	=	_____
_____	21.00	_____	x	15.160	=	_____
_____	21.25	_____	x	23.381	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 777.64 = MEAN VEL_____

PIPE ID = 22.50" # OF DATA POINTS 23

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	59.349	=	_____
_____	0.25	_____	x	16.058	=	_____
_____	0.50	_____	x	15.650	=	_____
_____	0.75	_____	x	15.243	=	_____
_____	1.00	_____	x	22.108	=	_____
_____	1.50	_____	x	28.051	=	_____
_____	2.00	_____	x	39.072	=	_____
_____	3.00	_____	x	46.456	=	_____
_____	4.00	_____	x	57.823	=	_____
_____	6.00	_____	x	55.035	=	_____
_____	8.00	_____	x	30.312	=	_____
_____	10.00	_____	x	6.761	=	_____
_____	12.00	_____	x	18.616	=	_____
_____	14.00	_____	x	41.330	=	_____
_____	16.00	_____	x	64.368	=	_____
_____	18.00	_____	x	63.063	=	_____
_____	19.00	_____	x	49.067	=	_____
_____	20.00	_____	x	40.403	=	_____
_____	20.50	_____	x	21.365	=	_____
_____	20.75	_____	x	14.674	=	_____
_____	21.00	_____	x	15.015	=	_____
_____	21.25	_____	x	15.355	=	_____
_____	21.50	_____	x	23.674	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 795.22 = MEAN VEL_____

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PIPE ID = 22.75" # OF DATA POINTS 23

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	60.038	=	
	0.25		x	16.255	=	
	0.50		x	15.847	=	
	0.75		x	15.440	=	
	1.00		x	22.403	=	
	1.50		x	28.446	=	
	2.00		x	39.664	=	
	3.00		x	47.245	=	
	4.00		x	59.003	=	
	6.00		x	56.598	=	
	8.00		x	31.853	=	
	10.00		x	7.943	=	
	12.00		x	16.821	=	
	14.00		x	39.910	=	
	16.00		x	63.006	=	
	18.00		x	62.089	=	
	19.00		x	48.439	=	
	20.00		x	39.946	=	
	20.50		x	28.366	=	
	21.00		x	22.168	=	
	21.25		x	15.209	=	
	21.50		x	15.549	=	
	21.75		x	23.967	=	
				TOTAL		

TOTAL_____ ÷ 812.99 = MEAN VEL_____

PIPE ID = 23.00" # OF DATA POINTS 24

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	60.726	=	
	0.25		x	16.452	=	
	0.50		x	16.044	=	
	0.75		x	15.637	=	
	1.00		x	22.699	=	
	1.50		x	28.840	=	
	2.00		x	40.256	=	
	3.00		x	48.034	=	
	4.00		x	60.184	=	
	6.00		x	58.162	=	
	8.00		x	33.395	=	
	10.00		x	9.220	=	
	12.00		x	15.114	=	
	14.00		x	38.484	=	
	16.00		x	61.637	=	
	18.00		x	61.108	=	
	19.00		x	47.805	=	
	20.00		x	39.484	=	
	20.50		x	28.064	=	
	21.00		x	21.944	=	
	21.25		x	15.062	=	
	21.50		x	15.403	=	
	21.75		x	15.744	=	
	22.00		x	24.261	=	
				TOTAL		

TOTAL_____ ÷ 830.95 = MEAN VEL_____

22.75 - 23.00

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PIPE ID = 23.25" # OF DATA POINTS 22

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	61.414	=	_____
_____	0.25	_____	x	16.648	=	_____
_____	0.50	_____	x	16.241	=	_____
_____	0.75	_____	x	15.834	=	_____
_____	1.00	_____	x	22.995	=	_____
_____	1.50	_____	x	29.235	=	_____
_____	2.00	_____	x	40.848	=	_____
_____	3.00	_____	x	48.823	=	_____
_____	4.00	_____	x	61.365	=	_____
_____	6.00	_____	x	59.726	=	_____
_____	8.00	_____	x	34.939	=	_____
_____	10.00	_____	x	10.594	=	_____
_____	12.00	_____	x	13.497	=	_____
_____	14.00	_____	x	37.052	=	_____
_____	16.00	_____	x	60.260	=	_____
_____	18.00	_____	x	83.073	=	_____
_____	20.00	_____	x	76.951	=	_____
_____	21.00	_____	x	43.167	=	_____
_____	21.50	_____	x	22.749	=	_____
_____	21.75	_____	x	15.598	=	_____
_____	22.00	_____	x	15.939	=	_____
_____	22.25	_____	x	24.554	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 849.11 = MEAN VEL_____

PIPE ID = 23.50" # OF DATA POINTS 23

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	62.102	=	_____
_____	0.25	_____	x	16.845	=	_____
_____	0.50	_____	x	16.437	=	_____
_____	0.75	_____	x	16.031	=	_____
_____	1.00	_____	x	23.290	=	_____
_____	1.50	_____	x	29.629	=	_____
_____	2.00	_____	x	41.439	=	_____
_____	3.00	_____	x	49.612	=	_____
_____	4.00	_____	x	62.546	=	_____
_____	6.00	_____	x	61.291	=	_____
_____	8.00	_____	x	36.485	=	_____
_____	10.00	_____	x	12.065	=	_____
_____	12.00	_____	x	11.968	=	_____
_____	14.00	_____	x	35.615	=	_____
_____	16.00	_____	x	58.876	=	_____
_____	18.00	_____	x	81.750	=	_____
_____	20.00	_____	x	76.007	=	_____
_____	21.00	_____	x	42.711	=	_____
_____	21.50	_____	x	22.524	=	_____
_____	21.75	_____	x	15.450	=	_____
_____	22.00	_____	x	15.792	=	_____
_____	22.25	_____	x	16.134	=	_____
_____	22.50	_____	x	24.848	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 867.47 = MEAN VEL_____

23.25 - 23.50

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PIPE ID = 23.75" # OF DATA POINTS 23

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	62.790	=	
	0.25		x	17.042	=	
	0.50		x	16.634	=	
	0.75		x	16.228	=	
	1.00		x	23.586	=	
	1.50		x	30.024	=	
	2.00		x	42.031	=	
	3.00		x	50.401	=	
	4.00		x	63.727	=	
	6.00		x	62.856	=	
	8.00		x	38.031	=	
	10.00		x	13.632	=	
	12.00		x	10.530	=	
	14.00		x	34.173	=	
	16.00		x	57.485	=	
	18.00		x	80.418	=	
	20.00		x	75.054	=	
	21.00		x	42.249	=	
	21.50		x	29.910	=	
	22.00		x	23.331	=	
	22.25		x	15.987	=	
	22.50		x	16.329	=	
	22.75		x	25.141	=	
				TOTAL		

TOTAL_____ ÷ 886.03 = MEAN VEL_____

PIPE ID = 24.00" # OF DATA POINTS 24

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	63.479	=	
	0.25		x	17.238	=	
	0.50		x	16.831	=	
	0.75		x	16.425	=	
	1.00		x	23.881	=	
	1.50		x	30.418	=	
	2.00		x	42.623	=	
	3.00		x	51.190	=	
	4.00		x	64.908	=	
	6.00		x	64.422	=	
	8.00		x	39.579	=	
	10.00		x	15.296	=	
	12.00		x	9.182	=	
	14.00		x	32.726	=	
	16.00		x	56.087	=	
	18.00		x	79.077	=	
	20.00		x	74.094	=	
	21.00		x	41.783	=	
	21.50		x	29.605	=	
	22.00		x	23.105	=	
	22.25		x	15.838	=	
	22.50		x	16.181	=	
	22.75		x	16.524	=	
	23.00		x	25.434	=	
				TOTAL		

TOTAL_____ ÷ 904.78 = MEAN VEL_____

23.75 - 30.00

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PIPE ID = 24.25" # OF DATA POINTS 23

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	64.167	=	_____
_____	0.25	_____	x	17.435	=	_____
_____	0.50	_____	x	17.028	=	_____
_____	0.75	_____	x	16.621	=	_____
_____	1.00	_____	x	24.177	=	_____
_____	1.50	_____	x	30.812	=	_____
_____	2.00	_____	x	43.215	=	_____
_____	3.00	_____	x	51.979	=	_____
_____	4.00	_____	x	66.089	=	_____
_____	6.00	_____	x	65.988	=	_____
_____	8.00	_____	x	41.128	=	_____
_____	10.00	_____	x	17.056	=	_____
_____	12.00	_____	x	7.925	=	_____
_____	14.00	_____	x	31.274	=	_____
_____	16.00	_____	x	54.683	=	_____
_____	18.00	_____	x	77.729	=	_____
_____	20.00	_____	x	73.126	=	_____
_____	21.00	_____	x	55.808	=	_____
_____	22.00	_____	x	45.483	=	_____
_____	22.50	_____	x	23.913	=	_____
_____	22.75	_____	x	16.376	=	_____
_____	23.00	_____	x	16.719	=	_____
_____	23.25	_____	x	25.728	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 923.73 = MEAN VEL_____

PIPE ID = 24.50" # OF DATA POINTS 24

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	64.855	=	_____
_____	0.25	_____	x	17.632	=	_____
_____	0.50	_____	x	17.225	=	_____
_____	0.75	_____	x	16.818	=	_____
_____	1.00	_____	x	24.473	=	_____
_____	1.50	_____	x	31.207	=	_____
_____	2.00	_____	x	43.806	=	_____
_____	3.00	_____	x	52.768	=	_____
_____	4.00	_____	x	67.271	=	_____
_____	6.00	_____	x	67.555	=	_____
_____	8.00	_____	x	42.679	=	_____
_____	10.00	_____	x	18.914	=	_____
_____	12.00	_____	x	6.759	=	_____
_____	14.00	_____	x	29.818	=	_____
_____	16.00	_____	x	53.273	=	_____
_____	18.00	_____	x	76.372	=	_____
_____	20.00	_____	x	72.150	=	_____
_____	21.00	_____	x	55.177	=	_____
_____	22.00	_____	x	45.022	=	_____
_____	22.50	_____	x	23.686	=	_____
_____	22.75	_____	x	16.226	=	_____
_____	23.00	_____	x	16.571	=	_____
_____	23.25	_____	x	16.915	=	_____
_____	23.50	_____	x	26.021	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 942.87 = MEAN VEL_____

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PIPE ID = 24.75" # OF DATA POINTS 24

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	65.543	=	
	0.25		x	17.829	=	
	0.50		x	17.422	=	
	0.75		x	17.015	=	
	1.00		x	24.768	=	
	1.50		x	31.601	=	
	2.00		x	44.398	=	
	3.00		x	53.557	=	
	4.00		x	68.452	=	
	6.00		x	69.123	=	
	8.00		x	44.230	=	
	10.00		x	20.869	=	
	12.00		x	5.685	=	
	14.00		x	28.358	=	
	16.00		x	51.857	=	
	18.00		x	75.008	=	
	20.00		x	71.168	=	
	21.00		x	54.541	=	
	22.00		x	44.556	=	
	22.50		x	31.456	=	
	23.00		x	24.495	=	
	23.25		x	16.765	=	
	23.50		x	17.110	=	
	23.75		x	26.315	=	
				TOTAL		

TOTAL_____ ÷ 962.21 = MEAN VEL_____

PIPE ID = 25.00" # OF DATA POINTS 25

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	66.231	=	
	0.25		x	18.025	=	
	0.50		x	17.618	=	
	0.75		x	17.212	=	
	1.00		x	25.064	=	
	1.50		x	31.995	=	
	2.00		x	44.990	=	
	3.00		x	54.346	=	
	4.00		x	69.634	=	
	6.00		x	70.690	=	
	8.00		x	45.782	=	
	10.00		x	22.921	=	
	12.00		x	4.702	=	
	14.00		x	26.893	=	
	16.00		x	50.436	=	
	18.00		x	73.637	=	
	20.00		x	70.179	=	
	21.00		x	53.899	=	
	22.00		x	44.086	=	
	22.50		x	31.148	=	
	23.00		x	24.267	=	
	23.25		x	16.614	=	
	23.50		x	16.960	=	
	23.75		x	17.305	=	
	24.00		x	26.608	=	
				TOTAL		

TOTAL_____ ÷ 981.75 = MEAN VEL_____

24.75 - 25.00

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PIPE ID = 25.25" # OF DATA POINTS 23

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	66.919	=	_____
_____	0.25	_____	x	18.222	=	_____
_____	0.50	_____	x	17.815	=	_____
_____	0.75	_____	x	17.409	=	_____
_____	1.00	_____	x	25.359	=	_____
_____	1.50	_____	x	32.390	=	_____
_____	2.00	_____	x	45.581	=	_____
_____	3.00	_____	x	55.135	=	_____
_____	4.00	_____	x	70.815	=	_____
_____	6.00	_____	x	72.259	=	_____
_____	8.00	_____	x	47.336	=	_____
_____	10.00	_____	x	25.070	=	_____
_____	12.00	_____	x	3.812	=	_____
_____	14.00	_____	x	25.425	=	_____
_____	16.00	_____	x	49.009	=	_____
_____	18.00	_____	x	72.259	=	_____
_____	20.00	_____	x	95.174	=	_____
_____	22.00	_____	x	86.135	=	_____
_____	23.00	_____	x	47.801	=	_____
_____	23.50	_____	x	25.077	=	_____
_____	23.75	_____	x	17.155	=	_____
_____	24.00	_____	x	17.500	=	_____
_____	24.25	_____	x	26.902	=	_____
_____						
					TOTAL	_____

TOTAL_____ ÷ 1001.48 = MEAN VEL_____

PIPE ID = 25.50" # OF DATA POINTS 24

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	67.607	=	_____
_____	0.25	_____	x	18.419	=	_____
_____	0.50	_____	x	18.012	=	_____
_____	0.75	_____	x	17.606	=	_____
_____	1.00	_____	x	25.655	=	_____
_____	1.50	_____	x	32.784	=	_____
_____	2.00	_____	x	46.173	=	_____
_____	3.00	_____	x	55.924	=	_____
_____	4.00	_____	x	71.997	=	_____
_____	6.00	_____	x	73.827	=	_____
_____	8.00	_____	x	48.890	=	_____
_____	10.00	_____	x	24.281	=	_____
_____	12.00	_____	x	6.029	=	_____
_____	14.00	_____	x	23.953	=	_____
_____	16.00	_____	x	47.578	=	_____
_____	18.00	_____	x	70.874	=	_____
_____	20.00	_____	x	93.843	=	_____
_____	22.00	_____	x	85.178	=	_____
_____	23.00	_____	x	47.336	=	_____
_____	23.50	_____	x	24.848	=	_____
_____	23.75	_____	x	17.003	=	_____
_____	24.00	_____	x	17.349	=	_____
_____	24.25	_____	x	17.695	=	_____
_____	24.50	_____	x	27.196	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1021.41 = MEAN VEL_____

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PIPE ID = 25.75" # OF DATA POINTS 24

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	68.295	=	_____
_____	0.25	_____	x	18.615	=	_____
_____	0.50	_____	x	18.209	=	_____
_____	0.75	_____	x	17.803	=	_____
_____	1.00	_____	x	25.950	=	_____
_____	1.50	_____	x	33.178	=	_____
_____	2.00	_____	x	46.765	=	_____
_____	3.00	_____	x	56.713	=	_____
_____	4.00	_____	x	73.179	=	_____
_____	6.00	_____	x	75.396	=	_____
_____	8.00	_____	x	50.445	=	_____
_____	10.00	_____	x	25.816	=	_____
_____	12.00	_____	x	3.818	=	_____
_____	14.00	_____	x	24.772	=	_____
_____	16.00	_____	x	46.141	=	_____
_____	18.00	_____	x	69.483	=	_____
_____	20.00	_____	x	92.503	=	_____
_____	22.00	_____	x	84.214	=	_____
_____	23.00	_____	x	46.867	=	_____
_____	23.50	_____	x	33.004	=	_____
_____	24.00	_____	x	25.660	=	_____
_____	24.25	_____	x	17.544	=	_____
_____	24.50	_____	x	17.890	=	_____
_____	24.75	_____	x	27.489	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 1041.54 = MEAN VEL_____

PIPE ID = 26.00" # OF DATA POINTS 25

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	68.983	=	_____
_____	0.25	_____	x	18.812	=	_____
_____	0.50	_____	x	18.406	=	_____
_____	0.75	_____	x	18.000	=	_____
_____	1.00	_____	x	26.246	=	_____
_____	1.50	_____	x	33.573	=	_____
_____	2.00	_____	x	47.356	=	_____
_____	3.00	_____	x	57.502	=	_____
_____	4.00	_____	x	74.361	=	_____
_____	6.00	_____	x	76.966	=	_____
_____	8.00	_____	x	52.001	=	_____
_____	10.00	_____	x	27.353	=	_____
_____	12.00	_____	x	4.718	=	_____
_____	14.00	_____	x	22.685	=	_____
_____	16.00	_____	x	44.700	=	_____
_____	18.00	_____	x	68.086	=	_____
_____	20.00	_____	x	91.157	=	_____
_____	22.00	_____	x	83.243	=	_____
_____	23.00	_____	x	46.393	=	_____
_____	23.50	_____	x	32.693	=	_____
_____	24.00	_____	x	25.430	=	_____
_____	24.25	_____	x	17.392	=	_____
_____	24.50	_____	x	17.739	=	_____
_____	24.75	_____	x	18.086	=	_____
_____	25.00	_____	x	27.783	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 1061.86 = MEAN VEL_____

25.75 - 26.00

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PIPE ID = 26.25" # OF DATA POINTS 24

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	69.671	=	_____
_____	0.25	_____	x	19.009	=	_____
_____	0.50	_____	x	18.603	=	_____
_____	0.75	_____	x	18.197	=	_____
_____	1.00	_____	x	26.541	=	_____
_____	1.50	_____	x	33.967	=	_____
_____	2.00	_____	x	47.948	=	_____
_____	3.00	_____	x	58.291	=	_____
_____	4.00	_____	x	75.543	=	_____
_____	6.00	_____	x	78.536	=	_____
_____	8.00	_____	x	53.558	=	_____
_____	10.00	_____	x	28.891	=	_____
_____	12.00	_____	x	5.713	=	_____
_____	14.00	_____	x	20.689	=	_____
_____	16.00	_____	x	43.254	=	_____
_____	18.00	_____	x	66.683	=	_____
_____	20.00	_____	x	89.803	=	_____
_____	22.00	_____	x	82.266	=	_____
_____	23.00	_____	x	61.951	=	_____
_____	24.00	_____	x	50.122	=	_____
_____	24.50	_____	x	26.243	=	_____
_____	24.75	_____	x	17.934	=	_____
_____	25.00	_____	x	18.281	=	_____
_____	25.25	_____	x	28.076	=	_____
_____					TOTAL	_____

TOTAL _____ ÷ 1082.38 = MEAN VEL_____

PIPE ID = 26.50" # OF DATA POINTS 25

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	70.359	=	_____
_____	0.25	_____	x	19.205	=	_____
_____	0.50	_____	x	18.799	=	_____
_____	0.75	_____	x	18.394	=	_____
_____	1.00	_____	x	26.836	=	_____
_____	1.50	_____	x	34.361	=	_____
_____	2.00	_____	x	48.539	=	_____
_____	3.00	_____	x	59.080	=	_____
_____	4.00	_____	x	76.725	=	_____
_____	6.00	_____	x	80.106	=	_____
_____	8.00	_____	x	55.116	=	_____
_____	10.00	_____	x	30.430	=	_____
_____	12.00	_____	x	6.804	=	_____
_____	14.00	_____	x	18.781	=	_____
_____	16.00	_____	x	41.805	=	_____
_____	18.00	_____	x	65.275	=	_____
_____	20.00	_____	x	88.442	=	_____
_____	22.00	_____	x	81.282	=	_____
_____	23.00	_____	x	61.311	=	_____
_____	24.00	_____	x	49.653	=	_____
_____	24.50	_____	x	26.012	=	_____
_____	24.75	_____	x	17.781	=	_____
_____	25.00	_____	x	18.129	=	_____
_____	25.25	_____	x	18.476	=	_____
_____	25.50	_____	x	28.370	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1103.09 = MEAN VEL_____

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PIPE ID = 26.75" # OF DATA POINTS 25

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	71.047	=	
	0.25		x	19.402	=	
	0.50		x	18.996	=	
	0.75		x	18.591	=	
	1.00		x	27.132	=	
	1.50		x	34.755	=	
	2.00		x	49.130	=	
	3.00		x	59.869	=	
	4.00		x	77.906	=	
	6.00		x	81.676	=	
	8.00		x	56.674	=	
	10.00		x	31.971	=	
	12.00		x	7.991	=	
	14.00		x	16.965	=	
	16.00		x	40.351	=	
	18.00		x	63.861	=	
	20.00		x	87.074	=	
	22.00		x	80.291	=	
	23.00		x	60.667	=	
	24.00		x	49.180	=	
	24.50		x	34.553	=	
	25.00		x	26.826	=	
	25.25		x	18.324	=	
	25.50		x	18.671	=	
	25.75		x	28.664	=	
				TOTAL		

TOTAL_____ ÷ 1124.00 = MEAN VEL_____

PIPE ID = 27.00" # OF DATA POINTS 26

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	71.735	=	
	0.25		x	19.599	=	
	0.50		x	19.193	=	
	0.75		x	18.787	=	
	1.00		x	27.427	=	
	1.50		x	35.149	=	
	2.00		x	49.722	=	
	3.00		x	60.658	=	
	4.00		x	79.088	=	
	6.00		x	83.247	=	
	8.00		x	58.233	=	
	10.00		x	33.513	=	
	12.00		x	9.274	=	
	14.00		x	15.238	=	
	16.00		x	38.893	=	
	18.00		x	62.442	=	
	20.00		x	85.700	=	
	22.00		x	79.295	=	
	23.00		x	60.018	=	
	24.00		x	48.704	=	
	24.50		x	34.239	=	
	25.00		x	26.594	=	
	25.25		x	18.170	=	
	25.50		x	18.518	=	
	25.75		x	18.867	=	
	26.00		x	28.957	=	
				TOTAL		

TOTAL_____ ÷ 1145.11 = MEAN VEL_____

26.75 - 27.00

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PIPE ID = 27.25" # OF DATA POINTS 24

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____ x	72.423 =	_____
_____	0.25	_____ x	19.795 =	_____
_____	0.50	_____ x	19.390 =	_____
_____	0.75	_____ x	18.984 =	_____
_____	1.00	_____ x	27.723 =	_____
_____	1.50	_____ x	35.543 =	_____
_____	2.00	_____ x	50.313 =	_____
_____	3.00	_____ x	61.447 =	_____
_____	4.00	_____ x	80.270 =	_____
_____	6.00	_____ x	84.818 =	_____
_____	8.00	_____ x	59.793 =	_____
_____	10.00	_____ x	35.056 =	_____
_____	12.00	_____ x	10.654 =	_____
_____	14.00	_____ x	13.603 =	_____
_____	16.00	_____ x	37.431 =	_____
_____	18.00	_____ x	61.019 =	_____
_____	20.00	_____ x	84.319 =	_____
_____	22.00	_____ x	107.332 =	_____
_____	24.00	_____ x	95.351 =	_____
_____	25.00	_____ x	52.446 =	_____
_____	25.50	_____ x	27.410 =	_____
_____	25.75	_____ x	18.713 =	_____
_____	26.00	_____ x	19.062 =	_____
_____	26.25	_____ x	29.251 =	_____
			TOTAL	_____

TOTAL_____ ÷ 1166.41 = MEAN VEL_____

PIPE ID = 27.50" # OF DATA POINTS 25

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____ x	73.111 =	_____
_____	0.25	_____ x	19.992 =	_____
_____	0.50	_____ x	19.586 =	_____
_____	0.75	_____ x	19.181 =	_____
_____	1.00	_____ x	28.018 =	_____
_____	1.50	_____ x	35.937 =	_____
_____	2.00	_____ x	50.905 =	_____
_____	3.00	_____ x	62.235 =	_____
_____	4.00	_____ x	81.452 =	_____
_____	6.00	_____ x	86.389 =	_____
_____	8.00	_____ x	61.354 =	_____
_____	10.00	_____ x	36.601 =	_____
_____	12.00	_____ x	12.130 =	_____
_____	14.00	_____ x	12.059 =	_____
_____	16.00	_____ x	35.966 =	_____
_____	18.00	_____ x	59.590 =	_____
_____	20.00	_____ x	82.933 =	_____
_____	22.00	_____ x	105.993 =	_____
_____	24.00	_____ x	94.383 =	_____
_____	25.00	_____ x	51.973 =	_____
_____	25.50	_____ x	27.176 =	_____
_____	25.75	_____ x	18.559 =	_____
_____	26.00	_____ x	18.908 =	_____
_____	26.25	_____ x	19.257 =	_____
_____	26.50	_____ x	29.545 =	_____
			TOTAL	_____

TOTAL_____ ÷ 1197.91 = MEAN VEL_____

27.25 - 27.50

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PIPE ID = 27.75" # OF DATA POINTS 25

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	73.799	=	
	0.25		x	20.189	=	
	0.50		x	19.783	=	
	0.75		x	19.378	=	
	1.00		x	28.313	=	
	1.50		x	36.332	=	
	2.00		x	51.496	=	
	3.00		x	63.024	=	
	4.00		x	82.635	=	
	6.00		x	87.960	=	
	8.00		x	62.915	=	
	10.00		x	38.146	=	
	12.00		x	13.702	=	
	14.00		x	10.607	=	
	16.00		x	34.497	=	
	18.00		x	58.157	=	
	20.00		x	81.540	=	
	22.00		x	104.646	=	
	24.00		x	93.409	=	
	25.00		x	51.497	=	
	25.50		x	36.104	=	
	26.00		x	27.994	=	
	26.25		x	19.103	=	
	26.50		x	19.453	=	
	26.75		x	29.839	=	
				TOTAL		

TOTAL_____ ÷ 1209.61 = MEAN VEL_____

PIPE ID = 28.00" # OF DATA POINTS 26

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	74.487	=	
	0.25		x	20.385	=	
	0.50		x	19.980	=	
	0.75		x	19.575	=	
	1.00		x	28.609	=	
	1.50		x	36.726	=	
	2.00		x	52.087	=	
	3.00		x	63.813	=	
	4.00		x	83.817	=	
	6.00		x	89.532	=	
	8.00		x	64.476	=	
	10.00		x	39.693	=	
	12.00		x	15.371	=	
	14.00		x	9.247	=	
	16.00		x	33.025	=	
	18.00		x	56.720	=	
	20.00		x	80.142	=	
	22.00		x	103.293	=	
	24.00		x	92.428	=	
	25.00		x	51.017	=	
	25.50		x	35.788	=	
	26.00		x	27.759	=	
	26.25		x	18.948	=	
	26.50		x	19.298	=	
	26.75		x	19.648	=	
	27.00		x	30.132	=	
				TOTAL		

TOTAL_____ ÷ 1231.50 = MEAN VEL_____

27.75 - 28.00

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PIPE ID = 28.25" # OF DATA POINTS 25

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	75.174	=	_____
_____	0.25	_____	x	20.582	=	_____
_____	0.50	_____	x	20.177	=	_____
_____	0.75	_____	x	19.772	=	_____
_____	1.00	_____	x	28.904	=	_____
_____	1.50	_____	x	37.120	=	_____
_____	2.00	_____	x	52.678	=	_____
_____	3.00	_____	x	64.602	=	_____
_____	4.00	_____	x	84.999	=	_____
_____	6.00	_____	x	91.104	=	_____
_____	8.00	_____	x	66.038	=	_____
_____	10.00	_____	x	41.240	=	_____
_____	12.00	_____	x	17.137	=	_____
_____	14.00	_____	x	7.978	=	_____
_____	16.00	_____	x	31.549	=	_____
_____	18.00	_____	x	55.278	=	_____
_____	20.00	_____	x	78.739	=	_____
_____	22.00	_____	x	101.933	=	_____
_____	24.00	_____	x	91.441	=	_____
_____	25.00	_____	x	68.111	=	_____
_____	26.00	_____	x	54.772	=	_____
_____	26.50	_____	x	28.577	=	_____
_____	26.75	_____	x	19.493	=	_____
_____	27.00	_____	x	19.843	=	_____
_____	27.25	_____	x	30.426	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1253.59 = MEAN VEL_____

PIPE ID = 28.50" # OF DATA POINTS 26

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	75.862	=	_____
_____	0.25	_____	x	20.779	=	_____
_____	0.50	_____	x	20.373	=	_____
_____	0.75	_____	x	19.968	=	_____
_____	1.00	_____	x	29.199	=	_____
_____	1.50	_____	x	37.514	=	_____
_____	2.00	_____	x	53.270	=	_____
_____	3.00	_____	x	65.390	=	_____
_____	4.00	_____	x	86.181	=	_____
_____	6.00	_____	x	92.676	=	_____
_____	8.00	_____	x	67.601	=	_____
_____	10.00	_____	x	42.789	=	_____
_____	12.00	_____	x	19.000	=	_____
_____	14.00	_____	x	6.803	=	_____
_____	16.00	_____	x	30.071	=	_____
_____	18.00	_____	x	53.832	=	_____
_____	20.00	_____	x	77.331	=	_____
_____	22.00	_____	x	100.567	=	_____
_____	24.00	_____	x	90.449	=	_____
_____	25.00	_____	x	67.464	=	_____
_____	26.00	_____	x	54.296	=	_____
_____	26.50	_____	x	28.342	=	_____
_____	26.75	_____	x	19.337	=	_____
_____	27.00	_____	x	19.688	=	_____
_____	27.25	_____	x	20.039	=	_____
_____	27.50	_____	x	30.720	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1275.88 = MEAN VEL_____

28.25 - 28.50

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PIPE ID = 28.75" # OF DATA POINTS 26						
REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	76.550	=	_____
_____	0.25	_____	x	20.975	=	_____
_____	0.50	_____	x	20.570	=	_____
_____	0.75	_____	x	20.165	=	_____
_____	1.00	_____	x	29.495	=	_____
_____	1.50	_____	x	37.908	=	_____
_____	2.00	_____	x	53.861	=	_____
_____	3.00	_____	x	66.179	=	_____
_____	4.00	_____	x	87.363	=	_____
_____	6.00	_____	x	94.248	=	_____
_____	8.00	_____	x	69.164	=	_____
_____	10.00	_____	x	44.339	=	_____
_____	12.00	_____	x	20.959	=	_____
_____	14.00	_____	x	5.720	=	_____
_____	16.00	_____	x	28.590	=	_____
_____	18.00	_____	x	52.383	=	_____
_____	20.00	_____	x	75.918	=	_____
_____	22.00	_____	x	99.195	=	_____
_____	24.00	_____	x	89.451	=	_____
_____	25.00	_____	x	66.813	=	_____
_____	26.00	_____	x	53.816	=	_____
_____	26.50	_____	x	37.656	=	_____
_____	27.00	_____	x	29.161	=	_____
_____	27.25	_____	x	19.883	=	_____
_____	27.50	_____	x	20.234	=	_____
_____	27.75	_____	x	31.014	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1298.36 = MEAN VEL_____

PIPE ID = 29.00" # OF DATA POINTS 27						
REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	77.238	=	_____
_____	0.25	_____	x	21.172	=	_____
_____	0.50	_____	x	20.767	=	_____
_____	0.75	_____	x	20.362	=	_____
_____	1.00	_____	x	29.790	=	_____
_____	1.50	_____	x	38.302	=	_____
_____	2.00	_____	x	54.452	=	_____
_____	3.00	_____	x	66.968	=	_____
_____	4.00	_____	x	88.545	=	_____
_____	6.00	_____	x	95.821	=	_____
_____	8.00	_____	x	70.728	=	_____
_____	10.00	_____	x	45.889	=	_____
_____	12.00	_____	x	23.016	=	_____
_____	14.00	_____	x	4.731	=	_____
_____	16.00	_____	x	27.105	=	_____
_____	18.00	_____	x	50.929	=	_____
_____	20.00	_____	x	74.500	=	_____
_____	22.00	_____	x	97.816	=	_____
_____	24.00	_____	x	88.448	=	_____
_____	25.00	_____	x	66.158	=	_____
_____	26.00	_____	x	53.333	=	_____
_____	26.50	_____	x	37.338	=	_____
_____	27.00	_____	x	28.925	=	_____
_____	27.25	_____	x	19.727	=	_____
_____	27.50	_____	x	20.079	=	_____
_____	27.75	_____	x	20.430	=	_____
_____	28.00	_____	x	31.307	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1321.04 = MEAN VEL_____

PIPE ID = 29.25" # OF DATA POINTS 25

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	77.926	=	_____
_____	0.25	_____	x	21.369	=	_____
_____	0.50	_____	x	20.963	=	_____
_____	0.75	_____	x	20.559	=	_____
_____	1.00	_____	x	30.085	=	_____
_____	1.50	_____	x	38.696	=	_____
_____	2.00	_____	x	55.043	=	_____
_____	3.00	_____	x	67.756	=	_____
_____	4.00	_____	x	89.727	=	_____
_____	6.00	_____	x	97.393	=	_____
_____	8.00	_____	x	72.292	=	_____
_____	10.00	_____	x	47.440	=	_____
_____	12.00	_____	x	25.170	=	_____
_____	14.00	_____	x	3.834	=	_____
_____	16.00	_____	x	25.618	=	_____
_____	18.00	_____	x	49.472	=	_____
_____	20.00	_____	x	73.077	=	_____
_____	22.00	_____	x	96.432	=	_____
_____	24.00	_____	x	119.538	=	_____
_____	26.00	_____	x	104.594	=	_____
_____	27.00	_____	x	57.100	=	_____
_____	27.50	_____	x	29.745	=	_____
_____	27.75	_____	x	20.274	=	_____
_____	28.00	_____	x	20.625	=	_____
_____	28.25	_____	x	31.601	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1343.91 = MEAN VEL_____

PIPE ID = 29.50" # OF DATA POINTS 26

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	78.614	=	_____
_____	0.25	_____	x	21.565	=	_____
_____	0.50	_____	x	21.160	=	_____
_____	0.75	_____	x	20.756	=	_____
_____	1.00	_____	x	30.380	=	_____
_____	1.50	_____	x	39.090	=	_____
_____	2.00	_____	x	55.634	=	_____
_____	3.00	_____	x	68.545	=	_____
_____	4.00	_____	x	90.909	=	_____
_____	6.00	_____	x	98.966	=	_____
_____	8.00	_____	x	73.857	=	_____
_____	10.00	_____	x	48.993	=	_____
_____	12.00	_____	x	24.374	=	_____
_____	14.00	_____	x	6.063	=	_____
_____	16.00	_____	x	24.129	=	_____
_____	18.00	_____	x	48.012	=	_____
_____	20.00	_____	x	71.650	=	_____
_____	22.00	_____	x	95.043	=	_____
_____	24.00	_____	x	118.191	=	_____
_____	26.00	_____	x	103.615	=	_____
_____	27.00	_____	x	56.620	=	_____
_____	27.50	_____	x	29.508	=	_____
_____	27.75	_____	x	20.117	=	_____
_____	28.00	_____	x	20.469	=	_____
_____	28.25	_____	x	20.821	=	_____
_____	28.50	_____	x	31.895	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1366.99 = MEAN VEL_____

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PIPE ID = 29.75" # OF DATA POINTS 26

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	79.301	=	
	0.25		x	21.762	=	
	0.50		x	21.357	=	
	0.75		x	20.952	=	
	1.00		x	30.676	=	
	1.50		x	39.484	=	
	2.00		x	56.226	=	
	3.00		x	69.333	=	
	4.00		x	92.092	=	
	6.00		x	100.539	=	
	8.00		x	75.422	=	
	10.00		x	50.546	=	
	12.00		x	25.911	=	
	14.00		x	3.839	=	
	16.00		x	24.947	=	
	18.00		x	46.548	=	
	20.00		x	70.219	=	
	22.00		x	93.648	=	
	24.00		x	116.837	=	
	26.00		x	102.631	=	
	27.00		x	56.138	=	
	27.50		x	39.209	=	
	28.00		x	30.330	=	
	28.25		x	20.664	=	
	28.50		x	21.016	=	
	28.75		x	32.189	=	
				TOTAL		

TOTAL_____ ÷ 1390.25 = MEAN VEL_____

PIPE ID = 30.00" # OF DATA POINTS 27

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	79.989	=	
	0.25		x	21.958	=	
	0.50		x	21.553	=	
	0.75		x	21.149	=	
	1.00		x	30.971	=	
	1.50		x	39.877	=	
	2.00		x	56.817	=	
	3.00		x	70.122	=	
	4.00		x	93.274	=	
	6.00		x	102.112	=	
	8.00		x	76.987	=	
	10.00		x	52.099	=	
	12.00		x	27.449	=	
	14.00		x	4.742	=	
	16.00		x	22.840	=	
	18.00		x	45.081	=	
	20.00		x	68.783	=	
	22.00		x	92.249	=	
	24.00		x	115.477	=	
	26.00		x	101.641	=	
	27.00		x	55.652	=	
	27.50		x	38.889	=	
	28.00		x	30.092	=	
	28.25		x	20.506	=	
	28.50		x	20.859	=	
	28.75		x	21.212	=	
	29.00		x	32.483	=	
				TOTAL		

TOTAL_____ ÷ 1413.72 = MEAN VEL_____

29.75 - 30.00

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PIPE ID = 30.25" # OF DATA POINTS 26

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	80.677	=	_____
_____	0.25	_____	x	22.155	=	_____
_____	0.50	_____	x	21.750	=	_____
_____	0.75	_____	x	21.346	=	_____
_____	1.00	_____	x	31.266	=	_____
_____	1.50	_____	x	40.271	=	_____
_____	2.00	_____	x	57.408	=	_____
_____	3.00	_____	x	70.910	=	_____
_____	4.00	_____	x	94.456	=	_____
_____	6.00	_____	x	103.685	=	_____
_____	8.00	_____	x	78.553	=	_____
_____	10.00	_____	x	53.654	=	_____
_____	12.00	_____	x	28.988	=	_____
_____	14.00	_____	x	5.741	=	_____
_____	16.00	_____	x	20.825	=	_____
_____	18.00	_____	x	43.611	=	_____
_____	20.00	_____	x	67.344	=	_____
_____	22.00	_____	x	90.844	=	_____
_____	24.00	_____	x	114.111	=	_____
_____	26.00	_____	x	100.646	=	_____
_____	27.00	_____	x	74.287	=	_____
_____	28.00	_____	x	59.429	=	_____
_____	28.50	_____	x	30.914	=	_____
_____	28.75	_____	x	21.054	=	_____
_____	29.00	_____	x	21.407	=	_____
_____	29.25	_____	x	32.777	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1437.38 = MEAN VEL_____

PIPE ID = 30.50" # OF DATA POINTS 27

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	81.365	=	_____
_____	0.25	_____	x	22.352	=	_____
_____	0.50	_____	x	21.947	=	_____
_____	0.75	_____	x	21.543	=	_____
_____	1.00	_____	x	31.561	=	_____
_____	1.50	_____	x	40.665	=	_____
_____	2.00	_____	x	57.999	=	_____
_____	3.00	_____	x	71.699	=	_____
_____	4.00	_____	x	95.638	=	_____
_____	6.00	_____	x	105.259	=	_____
_____	8.00	_____	x	80.119	=	_____
_____	10.00	_____	x	55.209	=	_____
_____	12.00	_____	x	30.528	=	_____
_____	14.00	_____	x	6.837	=	_____
_____	16.00	_____	x	18.901	=	_____
_____	18.00	_____	x	42.138	=	_____
_____	20.00	_____	x	65.901	=	_____
_____	22.00	_____	x	89.435	=	_____
_____	24.00	_____	x	112.739	=	_____
_____	26.00	_____	x	99.646	=	_____
_____	27.00	_____	x	73.633	=	_____
_____	28.00	_____	x	58.947	=	_____
_____	28.50	_____	x	30.675	=	_____
_____	28.75	_____	x	20.896	=	_____
_____	29.00	_____	x	21.250	=	_____
_____	29.25	_____	x	21.603	=	_____
_____	29.50	_____	x	33.070	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1461.23 = MEAN VEL_____

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PIPE ID = 30.75" # OF DATA POINTS 27

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	82.053	=	_____
_____	0.25	_____	x	22.548	=	_____
_____	0.50	_____	x	22.144	=	_____
_____	0.75	_____	x	21.739	=	_____
_____	1.00	_____	x	31.857	=	_____
_____	1.50	_____	x	41.059	=	_____
_____	2.00	_____	x	58.590	=	_____
_____	3.00	_____	x	72.487	=	_____
_____	4.00	_____	x	96.820	=	_____
_____	6.00	_____	x	106.832	=	_____
_____	8.00	_____	x	81.686	=	_____
_____	10.00	_____	x	56.765	=	_____
_____	12.00	_____	x	32.070	=	_____
_____	14.00	_____	x	8.028	=	_____
_____	16.00	_____	x	17.069	=	_____
_____	18.00	_____	x	40.661	=	_____
_____	20.00	_____	x	64.454	=	_____
_____	22.00	_____	x	88.021	=	_____
_____	24.00	_____	x	111.362	=	_____
_____	26.00	_____	x	98.641	=	_____
_____	27.00	_____	x	72.975	=	_____
_____	28.00	_____	x	58.461	=	_____
_____	28.50	_____	x	40.764	=	_____
_____	29.00	_____	x	31.499	=	_____
_____	29.25	_____	x	21.445	=	_____
_____	29.50	_____	x	21.798	=	_____
_____	29.75	_____	x	33.364	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1485.29 = MEAN VEL_____

PIPE ID = 31.00" # OF DATA POINTS 28

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	82.740	=	_____
_____	0.25	_____	x	22.745	=	_____
_____	0.50	_____	x	22.340	=	_____
_____	0.75	_____	x	21.936	=	_____
_____	1.00	_____	x	32.152	=	_____
_____	1.50	_____	x	41.453	=	_____
_____	2.00	_____	x	59.181	=	_____
_____	3.00	_____	x	73.276	=	_____
_____	4.00	_____	x	98.002	=	_____
_____	6.00	_____	x	108.406	=	_____
_____	8.00	_____	x	83.253	=	_____
_____	10.00	_____	x	58.322	=	_____
_____	12.00	_____	x	33.612	=	_____
_____	14.00	_____	x	9.316	=	_____
_____	16.00	_____	x	15.329	=	_____
_____	18.00	_____	x	39.183	=	_____
_____	20.00	_____	x	63.003	=	_____
_____	22.00	_____	x	86.602	=	_____
_____	24.00	_____	x	109.979	=	_____
_____	26.00	_____	x	97.632	=	_____
_____	27.00	_____	x	72.314	=	_____
_____	28.00	_____	x	57.973	=	_____
_____	28.50	_____	x	40.441	=	_____
_____	29.00	_____	x	31.259	=	_____
_____	29.25	_____	x	21.286	=	_____
_____	29.50	_____	x	21.640	=	_____
_____	29.75	_____	x	21.994	=	_____
_____	30.00	_____	x	33.658	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1509.54 = MEAN VEL_____

30.75 - 31.00

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PIPE ID = 31.25" # OF DATA POINTS 26

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	83.428	=	_____
_____	0.25	_____	x	22.941	=	_____
_____	0.50	_____	x	22.537	=	_____
_____	0.75	_____	x	22.133	=	_____
_____	1.00	_____	x	32.447	=	_____
_____	1.50	_____	x	41.847	=	_____
_____	2.00	_____	x	59.772	=	_____
_____	3.00	_____	x	74.064	=	_____
_____	4.00	_____	x	99.184	=	_____
_____	6.00	_____	x	109.979	=	_____
_____	8.00	_____	x	84.820	=	_____
_____	10.00	_____	x	59.879	=	_____
_____	12.00	_____	x	35.156	=	_____
_____	14.00	_____	x	10.699	=	_____
_____	16.00	_____	x	13.681	=	_____
_____	18.00	_____	x	37.701	=	_____
_____	20.00	_____	x	61.550	=	_____
_____	22.00	_____	x	85.180	=	_____
_____	24.00	_____	x	108.591	=	_____
_____	26.00	_____	x	131.785	=	_____
_____	28.00	_____	x	113.859	=	_____
_____	29.00	_____	x	61.760	=	_____
_____	29.50	_____	x	32.084	=	_____
_____	29.75	_____	x	21.835	=	_____
_____	30.00	_____	x	22.189	=	_____
_____	30.25	_____	x	33.952	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 1533.98 = MEAN VEL_____

PIPE ID = 31.50" # OF DATA POINTS 27

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	84.116	=	_____
_____	0.25	_____	x	23.138	=	_____
_____	0.50	_____	x	22.734	=	_____
_____	0.75	_____	x	22.330	=	_____
_____	1.00	_____	x	32.742	=	_____
_____	1.50	_____	x	42.241	=	_____
_____	2.00	_____	x	60.363	=	_____
_____	3.00	_____	x	74.853	=	_____
_____	4.00	_____	x	100.367	=	_____
_____	6.00	_____	x	111.553	=	_____
_____	8.00	_____	x	86.387	=	_____
_____	10.00	_____	x	61.436	=	_____
_____	12.00	_____	x	36.701	=	_____
_____	14.00	_____	x	12.180	=	_____
_____	16.00	_____	x	12.126	=	_____
_____	18.00	_____	x	36.217	=	_____
_____	20.00	_____	x	60.092	=	_____
_____	22.00	_____	x	83.753	=	_____
_____	24.00	_____	x	107.199	=	_____
_____	26.00	_____	x	130.429	=	_____
_____	28.00	_____	x	112.870	=	_____
_____	29.00	_____	x	61.275	=	_____
_____	29.50	_____	x	31.843	=	_____
_____	29.75	_____	x	21.676	=	_____
_____	30.00	_____	x	22.031	=	_____
_____	30.25	_____	x	22.385	=	_____
_____	30.50	_____	x	34.246	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 1558.62 = MEAN VEL_____

31.25 - 31.50

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PIPE ID = 31.75" # OF DATA POINTS 27

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	84.804	=	
	0.25		x	23.334	=	
	0.50		x	22.930	=	
	0.75		x	22.526	=	
	1.00		x	33.038	=	
	1.50		x	42.635	=	
	2.00		x	60.954	=	
	3.00		x	75.641	=	
	4.00		x	101.549	=	
	6.00		x	113.127	=	
	8.00		x	87.955	=	
	10.00		x	62.995	=	
	12.00		x	38.246	=	
	14.00		x	13.757	=	
	16.00		x	10.664	=	
	18.00		x	34.730	=	
	20.00		x	58.632	=	
	22.00		x	82.322	=	
	24.00		x	105.801	=	
	26.00		x	129.068	=	
	28.00		x	111.877	=	
	29.00		x	60.787	=	
	29.50		x	42.319	=	
	30.00		x	32.668	=	
	30.25		x	22.226	=	
	30.50		x	22.581	=	
	30.75		x	34.540	=	
				TOTAL		

TOTAL_____ ÷ 1583.46 = MEAN VEL_____

PIPE ID = 32.00" # OF DATA POINTS 28

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	85.491	=	
	0.25		x	23.531	=	
	0.50		x	23.127	=	
	0.75		x	22.723	=	
	1.00		x	33.333	=	
	1.50		x	43.028	=	
	2.00		x	61.545	=	
	3.00		x	76.429	=	
	4.00		x	102.731	=	
	6.00		x	114.701	=	
	8.00		x	89.523	=	
	10.00		x	64.554	=	
	12.00		x	39.792	=	
	14.00		x	15.430	=	
	16.00		x	9.294	=	
	18.00		x	33.241	=	
	20.00		x	57.168	=	
	22.00		x	80.888	=	
	24.00		x	104.399	=	
	26.00		x	127.701	=	
	28.00		x	110.879	=	
	29.00		x	60.296	=	
	29.50		x	41.995	=	
	30.00		x	32.427	=	
	30.25		x	22.066	=	
	30.50		x	22.421	=	
	30.75		x	22.776	=	
	31.00		x	34.834	=	
				TOTAL		

TOTAL_____ ÷ 1608.50 = MEAN VEL_____

31.75 - 32.00

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PIPE ID = 32.25" # OF DATA POINTS 27

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 86.179 =	_____
_____	0.25	_____	x 23.728 =	_____
_____	0.50	_____	x 23.324 =	_____
_____	0.75	_____	x 22.920 =	_____
_____	1.00	_____	x 33.628 =	_____
_____	1.50	_____	x 43.422 =	_____
_____	2.00	_____	x 62.136 =	_____
_____	3.00	_____	x 77.218 =	_____
_____	4.00	_____	x 103.913 =	_____
_____	6.00	_____	x 116.275 =	_____
_____	8.00	_____	x 91.092 =	_____
_____	10.00	_____	x 66.113 =	_____
_____	12.00	_____	x 41.340 =	_____
_____	14.00	_____	x 17.200 =	_____
_____	16.00	_____	x 8.018 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	18.00	_____	x 31.749 =	_____
_____	20.00	_____	x 55.702 =	_____
_____	22.00	_____	x 79.450 =	_____
_____	24.00	_____	x 102.992 =	_____
_____	26.00	_____	x 126.329 =	_____
_____	28.00	_____	x 109.876 =	_____
_____	29.00	_____	x 80.475 =	_____
_____	30.00	_____	x 64.093 =	_____
_____	30.50	_____	x 33.253 =	_____
_____	30.75	_____	x 22.617 =	_____
_____	31.00	_____	x 22.972 =	_____
_____	31.25	_____	x 35.128 =	_____
_____			TOTAL	_____

TOTAL_____ ÷ 1633.73 = MEAN VEL_____

32.25

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PIPE ID = 32.50" # OF DATA POINTS 28

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	86.867	=	_____
_____	0.25	_____	x	23.924	=	_____
_____	0.50	_____	x	23.520	=	_____
_____	0.75	_____	x	23.117	=	_____
_____	1.00	_____	x	33.923	=	_____
_____	1.50	_____	x	43.816	=	_____
_____	2.00	_____	x	62.726	=	_____
_____	3.00	_____	x	78.006	=	_____
_____	4.00	_____	x	105.095	=	_____
_____	6.00	_____	x	117.849	=	_____
_____	8.00	_____	x	92.660	=	_____
_____	10.00	_____	x	67.673	=	_____
_____	12.00	_____	x	42.888	=	_____
_____	14.00	_____	x	19.067	=	_____
_____	16.00	_____	x	6.836	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	30.255	=	_____
_____	20.00	_____	x	54.233	=	_____
_____	22.00	_____	x	78.008	=	_____
_____	24.00	_____	x	101.581	=	_____
_____	26.00	_____	x	124.952	=	_____
_____	28.00	_____	x	108.869	=	_____
_____	29.00	_____	x	79.815	=	_____
_____	30.00	_____	x	63.605	=	_____
_____	30.50	_____	x	33.012	=	_____
_____	30.75	_____	x	22.456	=	_____
_____	31.00	_____	x	22.812	=	_____
_____	31.25	_____	x	23.167	=	_____
_____	31.50	_____	x	35.422	=	_____
					TOTAL	_____

TOTAL_____ ÷ 1659.15 = MEAN VEL_____

32.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	87.555	=	_____
_____	0.25	_____	x	24.121	=	_____
_____	0.50	_____	x	23.717	=	_____
_____	0.75	_____	x	23.313	=	_____
_____	1.00	_____	x	34.218	=	_____
_____	1.50	_____	x	44.210	=	_____
_____	2.00	_____	x	63.317	=	_____
_____	3.00	_____	x	78.794	=	_____
_____	4.00	_____	x	106.277	=	_____
_____	6.00	_____	x	119.424	=	_____
_____	8.00	_____	x	94.229	=	_____
_____	10.00	_____	x	69.234	=	_____
_____	12.00	_____	x	44.437	=	_____
_____	14.00	_____	x	21.031	=	_____
_____	16.00	_____	x	5.747	=	_____
_____	18.00	_____	x	28.759	=	_____
_____	20.00	_____	x	52.760	=	_____
_____	22.00	_____	x	76.562	=	_____
_____	24.00	_____	x	100.165	=	_____
_____	26.00	_____	x	123.569	=	_____
_____	28.00	_____	x	107.857	=	_____
_____	29.00	_____	x	79.151	=	_____
_____	30.00	_____	x	63.114	=	_____
_____	30.50	_____	x	43.875	=	_____
_____	31.00	_____	x	33.839	=	_____
_____	31.25	_____	x	23.007	=	_____
_____	31.50	_____	x	23.363	=	_____
_____	31.75	_____	x	35.716	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1684.78 = MEAN VEL_____

PIPE ID = 33.00" # OF DATA POINTS 29

32.75

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	88.242	=	
	0.25		x	24.317	=	
	0.50		x	23.913	=	
	0.75		x	23.510	=	
	1.00		x	34.513	=	
	1.50		x	44.603	=	
	2.00		x	63.908	=	
	3.00		x	79.582	=	
	4.00		x	107.459	=	
	6.00		x	120.998	=	
	8.00		x	95.798	=	
	10.00		x	70.794	=	
	12.00		x	45.987	=	
	14.00		x	23.092	=	
	16.00		x	4.752	=	
REF (RD)	SENSOR	MEASURED		WEIGHT		WEIGHTED

DISTANCE	LOCATION	VELOCITY (FPS)		CONSTANT		VELOCITY
	18.00		x	27.261	=	
	20.00		x	51.285	=	
	22.00		x	75.114	=	
	24.00		x	98.746	=	
	26.00		x	122.182	=	
	28.00		x	106.841	=	
	29.00		x	78.485	=	
	30.00		x	62.621	=	
	30.50		x	43.549	=	
	31.00		x	33.596	=	
	31.25		x	22.846	=	
	31.50		x	23.203	=	
	31.75		x	23.559	=	
	32.00		x	36.010	=	
					TOTAL	

TOTAL_____ ÷ 1710.60 = MEAN VEL_____

33.00

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PIPE ID = 33.25" # OF DATA POINTS 27

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	× 88.930 =	_____
_____	0.25	_____	× 24.514 =	_____
_____	0.50	_____	× 24.110 =	_____
_____	0.75	_____	× 23.707 =	_____
_____	1.00	_____	× 34.808 =	_____
_____	1.50	_____	× 44.997 =	_____
_____	2.00	_____	× 64.499 =	_____
_____	3.00	_____	× 80.371 =	_____
_____	4.00	_____	× 108.641 =	_____
_____	6.00	_____	× 122.572 =	_____
_____	8.00	_____	× 97.368 =	_____
_____	10.00	_____	× 72.356 =	_____
_____	12.00	_____	× 47.537 =	_____
_____	14.00	_____	× 25.250 =	_____
_____	16.00	_____	× 3.851 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	18.00	_____	× 25.761 =	_____
_____	20.00	_____	× 49.808 =	_____
_____	22.00	_____	× 73.662 =	_____
_____	24.00	_____	× 97.322 =	_____
_____	26.00	_____	× 120.790 =	_____
_____	28.00	_____	× 144.065 =	_____
_____	30.00	_____	× 123.141 =	_____
_____	31.00	_____	× 66.427 =	_____
_____	31.50	_____	× 34.424 =	_____
_____	31.75	_____	× 23.398 =	_____
_____	32.00	_____	× 23.754 =	_____
_____	32.25	_____	× 36.304 =	_____
_____			TOTAL	_____

TOTAL_____ ÷ 1736.61 = MEAN VEL_____

33.25

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PIPE ID = 33.50" # OF DATA POINTS 28

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	89.618	=	_____
_____	0.25	_____	x	24.710	=	_____
_____	0.50	_____	x	24.307	=	_____
_____	0.75	_____	x	23.903	=	_____
_____	1.00	_____	x	35.104	=	_____
_____	1.50	_____	x	45.391	=	_____
_____	2.00	_____	x	65.090	=	_____
_____	3.00	_____	x	81.159	=	_____
_____	4.00	_____	x	109.823	=	_____
_____	6.00	_____	x	124.147	=	_____
_____	8.00	_____	x	98.937	=	_____
_____	10.00	_____	x	73.918	=	_____
_____	12.00	_____	x	49.088	=	_____
_____	14.00	_____	x	24.449	=	_____
_____	16.00	_____	x	6.089	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	24.259	=	_____
_____	20.00	_____	x	48.328	=	_____
_____	22.00	_____	x	72.206	=	_____
_____	24.00	_____	x	95.895	=	_____
_____	26.00	_____	x	119.394	=	_____
_____	28.00	_____	x	142.702	=	_____
_____	30.00	_____	x	122.144	=	_____
_____	31.00	_____	x	65.936	=	_____
_____	31.50	_____	x	34.180	=	_____
_____	31.75	_____	x	23.237	=	_____
_____	32.00	_____	x	23.594	=	_____
_____	32.25	_____	x	23.950	=	_____
_____	32.50	_____	x	36.598	=	_____
					TOTAL	_____

TOTAL_____ ÷ 1762.83 = MEAN VEL_____

33.50

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PIPE ID = 33.75" # OF DATA POINTS 28

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	90.305	=	_____
_____	0.25	_____	x	24.907	=	_____
_____	0.50	_____	x	24.503	=	_____
_____	0.75	_____	x	24.100	=	_____
_____	1.00	_____	x	35.399	=	_____
_____	1.50	_____	x	45.785	=	_____
_____	2.00	_____	x	65.681	=	_____
_____	3.00	_____	x	81.947	=	_____
_____	4.00	_____	x	111.005	=	_____
_____	6.00	_____	x	125.721	=	_____
_____	8.00	_____	x	100.507	=	_____
_____	10.00	_____	x	75.480	=	_____
_____	12.00	_____	x	50.640	=	_____
_____	14.00	_____	x	25.988	=	_____
_____	16.00	_____	x	3.855	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	25.078	=	_____
_____	20.00	_____	x	46.845	=	_____
_____	22.00	_____	x	70.748	=	_____
_____	24.00	_____	x	94.464	=	_____
_____	26.00	_____	x	117.992	=	_____
_____	28.00	_____	x	141.334	=	_____
_____	30.00	_____	x	121.143	=	_____
_____	31.00	_____	x	65.443	=	_____
_____	31.50	_____	x	45.432	=	_____
_____	32.00	_____	x	35.009	=	_____
_____	32.25	_____	x	23.789	=	_____
_____	32.50	_____	x	24.146	=	_____
_____	32.75	_____	x	36.892	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1789.24 = MEAN VEL_____

33.75

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PIPE ID = 34.00" # OF DATA POINTS 29

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	90.993	=	_____
_____	0.25	_____	x	25.104	=	_____
_____	0.50	_____	x	24.700	=	_____
_____	0.75	_____	x	24.297	=	_____
_____	1.00	_____	x	35.694	=	_____
_____	1.50	_____	x	46.178	=	_____
_____	2.00	_____	x	66.271	=	_____
_____	3.00	_____	x	82.735	=	_____
_____	4.00	_____	x	112.187	=	_____
_____	6.00	_____	x	127.296	=	_____
_____	8.00	_____	x	102.077	=	_____
_____	10.00	_____	x	77.043	=	_____
_____	12.00	_____	x	52.193	=	_____
_____	14.00	_____	x	27.528	=	_____
_____	16.00	_____	x	4.761	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	22.956	=	_____
_____	20.00	_____	x	45.360	=	_____
_____	22.00	_____	x	69.287	=	_____
_____	24.00	_____	x	93.029	=	_____
_____	26.00	_____	x	116.587	=	_____
_____	28.00	_____	x	139.960	=	_____
_____	30.00	_____	x	120.137	=	_____
_____	31.00	_____	x	64.948	=	_____
_____	31.50	_____	x	45.105	=	_____
_____	32.00	_____	x	34.765	=	_____
_____	32.25	_____	x	23.627	=	_____
_____	32.50	_____	x	23.984	=	_____
_____	32.75	_____	x	24.341	=	_____
_____	33.00	_____	x	37.186	=	_____
					TOTAL	_____

TOTAL_____ ÷ 1815.84 = MEAN VEL_____

34.00

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PIPE ID = 34.25" # OF DATA POINTS 28

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 91.681 =	_____
_____	0.25	_____	x 25.300 =	_____
_____	0.50	_____	x 24.897 =	_____
_____	0.75	_____	x 24.493 =	_____
_____	1.00	_____	x 35.989 =	_____
_____	1.50	_____	x 46.572 =	_____
_____	2.00	_____	x 66.862 =	_____
_____	3.00	_____	x 83.523 =	_____
_____	4.00	_____	x 113.369 =	_____
_____	6.00	_____	x 128.870 =	_____
_____	8.00	_____	x 103.647 =	_____
_____	10.00	_____	x 78.606 =	_____
_____	12.00	_____	x 53.746 =	_____
_____	14.00	_____	x 29.068 =	_____
_____	16.00	_____	x 5.764 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	18.00	_____	x 20.928 =	_____
_____	20.00	_____	x 43.873 =	_____
_____	22.00	_____	x 67.823 =	_____
_____	24.00	_____	x 91.591 =	_____
_____	26.00	_____	x 115.178 =	_____
_____	28.00	_____	x 138.582 =	_____
_____	30.00	_____	x 119.127 =	_____
_____	31.00	_____	x 86.674 =	_____
_____	32.00	_____	x 68.762 =	_____
_____	32.50	_____	x 35.595 =	_____
_____	32.75	_____	x 24.180 =	_____
_____	33.00	_____	x 24.537 =	_____
_____	33.25	_____	x 37.480 =	_____
			TOTAL	_____

TOTAL_____ ÷ 1842.64 = MEAN VEL_____

34.25

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PIPE ID = 34.50" # OF DATA POINTS 29

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	92.369	=	_____
_____	0.25	_____	x	25.497	=	_____
_____	0.50	_____	x	25.093	=	_____
_____	0.75	_____	x	24.690	=	_____
_____	1.00	_____	x	36.284	=	_____
_____	1.50	_____	x	46.966	=	_____
_____	2.00	_____	x	67.453	=	_____
_____	3.00	_____	x	84.311	=	_____
_____	4.00	_____	x	114.551	=	_____
_____	6.00	_____	x	130.445	=	_____
_____	8.00	_____	x	105.218	=	_____
_____	10.00	_____	x	80.169	=	_____
_____	12.00	_____	x	55.300	=	_____
_____	14.00	_____	x	30.610	=	_____
_____	16.00	_____	x	6.862	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	18.991	=	_____
_____	20.00	_____	x	42.384	=	_____
_____	22.00	_____	x	66.356	=	_____
_____	24.00	_____	x	90.150	=	_____
_____	26.00	_____	x	113.764	=	_____
_____	28.00	_____	x	137.199	=	_____
_____	30.00	_____	x	118.113	=	_____
_____	31.00	_____	x	86.008	=	_____
_____	32.00	_____	x	68.269	=	_____
_____	32.50	_____	x	35.350	=	_____
_____	32.75	_____	x	24.017	=	_____
	33.00	_____	x	24.375	=	_____
	33.25	_____	x	24.733	=	_____
	33.50	_____	x	37.774	=	_____
					TOTAL	_____

TOTAL_____ ÷ 1869.64 = MEAN VEL_____

34.50

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PIPE ID = 34.75" # OF DATA POINTS 29

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	93.056	=	_____
_____	0.25	_____	x	25.693	=	_____
_____	0.50	_____	x	25.290	=	_____
_____	0.75	_____	x	24.887	=	_____
_____	1.00	_____	x	36.579	=	_____
_____	1.50	_____	x	47.359	=	_____
_____	2.00	_____	x	68.044	=	_____
_____	3.00	_____	x	85.099	=	_____
_____	4.00	_____	x	115.733	=	_____
_____	6.00	_____	x	132.020	=	_____
_____	8.00	_____	x	106.788	=	_____
_____	10.00	_____	x	81.733	=	_____
_____	12.00	_____	x	56.855	=	_____
_____	14.00	_____	x	2.153	=	_____
_____	16.00	_____	x	8.057	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	17.148	=	_____
_____	20.00	_____	x	40.892	=	_____
_____	22.00	_____	x	64.887	=	_____
_____	24.00	_____	x	88.705	=	_____
_____	26.00	_____	x	112.347	=	_____
_____	28.00	_____	x	135.812	=	_____
_____	30.00	_____	x	117.094	=	_____
_____	31.00	_____	x	85.339	=	_____
_____	32.00	_____	x	67.774	=	_____
_____	32.50	_____	x	46.990	=	_____
_____	33.00	_____	x	36.180	=	_____
_____	33.25	_____	x	24.571	=	_____
_____	33.50	_____	x	24.929	=	_____
_____	33.75	_____	x	38.068	=	_____
_____					TOTAL	_____

TOTAL_____÷ 1896.83 = MEAN VEL_____

34.75

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	93.744	=	_____
_____	0.25	_____	x	25.890	=	_____
_____	0.50	_____	x	25.486	=	_____
_____	0.75	_____	x	25.083	=	_____
_____	1.00	_____	x	36.874	=	_____
_____	1.50	_____	x	47.753	=	_____
_____	2.00	_____	x	68.634	=	_____
_____	3.00	_____	x	85.887	=	_____
_____	4.00	_____	x	116.915	=	_____
_____	6.00	_____	x	133.595	=	_____
_____	8.00	_____	x	108.359	=	_____
_____	10.00	_____	x	83.297	=	_____
_____	12.00	_____	x	58.410	=	_____
_____	14.00	_____	x	33.696	=	_____
_____	16.00	_____	x	9.348	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	15.398	=	_____
_____	20.00	_____	x	39.398	=	_____
_____	22.00	_____	x	63.415	=	_____
_____	24.00	_____	x	87.257	=	_____
_____	26.00	_____	x	110.925	=	_____
_____	28.00	_____	x	134.419	=	_____
_____	30.00	_____	x	116.072	=	_____
_____	31.00	_____	x	84.667	=	_____
_____	32.00	_____	x	67.276	=	_____
_____	32.50	_____	x	46.661	=	_____
_____	33.00	_____	x	35.935	=	_____
_____	33.25	_____	x	24.408	=	_____
_____	33.50	_____	x	24.766	=	_____
_____	33.75	_____	x	25.124	=	_____
_____	34.00	_____	x	38.362	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 1924.23 = MEAN VEL_____

35.00

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PIPE ID = 35.25" # OF DATA POINTS 28

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	94.431	=	_____
_____	0.25	_____	x	26.086	=	_____
_____	0.50	_____	x	25.683	=	_____
_____	0.75	_____	x	25.280	=	_____
_____	1.00	_____	x	37.169	=	_____
_____	1.50	_____	x	48.147	=	_____
_____	2.00	_____	x	69.225	=	_____
_____	3.00	_____	x	86.675	=	_____
_____	4.00	_____	x	118.097	=	_____
_____	6.00	_____	x	135.169	=	_____
_____	8.00	_____	x	109.930	=	_____
_____	10.00	_____	x	84.862	=	_____
_____	12.00	_____	x	59.965	=	_____
_____	14.00	_____	x	35.241	=	_____
_____	16.00	_____	x	10.736	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	13.741	=	_____
_____	20.00	_____	x	37.903	=	_____
_____	22.00	_____	x	61.940	=	_____
_____	24.00	_____	x	85.806	=	_____
_____	26.00	_____	x	109.501	=	_____
_____	28.00	_____	x	133.023	=	_____
_____	30.00	_____	x	156.374	=	_____
_____	32.00	_____	x	132.439	=	_____
_____	33.00	_____	x	71.099	=	_____
_____	33.50	_____	x	36.766	=	_____
_____	33.75	_____	x	24.962	=	_____
_____	34.00	_____	x	25.320	=	_____
_____	34.25	_____	x	38.656	=	_____
_____					TOTAL	_____

TOTAL_____÷ 1951.81 = MEAN VEL_____

33.25

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 95.119 =	_____
_____	0.25	_____	x 26.283 =	_____
_____	0.50	_____	x 25.880 =	_____
_____	0.75	_____	x 25.477 =	_____
_____	1.00	_____	x 37.464 =	_____
_____	1.50	_____	x 48.540 =	_____
_____	2.00	_____	x 69.816 =	_____
_____	3.00	_____	x 87.463 =	_____
_____	4.00	_____	x 119.279 =	_____
_____	6.00	_____	x 136.744 =	_____
_____	8.00	_____	x 111.501 =	_____
_____	10.00	_____	x 86.426 =	_____
_____	12.00	_____	x 61.522 =	_____
_____	14.00	_____	x 36.786 =	_____
_____	16.00	_____	x 12.220 =	_____
_____	18.00	_____	x 12.177 =	_____
_____	20.00	_____	x 36.405 =	_____
_____	22.00	_____	x 60.463 =	_____
_____	24.00	_____	x 84.352 =	_____
_____	26.00	_____	x 108.072 =	_____
_____	28.00	_____	x 131.623 =	_____
_____	30.00	_____	x 155.004 =	_____
_____	32.00	_____	x 131.434 =	_____
_____	33.00	_____	x 70.603 =	_____
_____	33.50	_____	x 36.520 =	_____
_____	33.75	_____	x 24.798 =	_____
_____	34.00	_____	x 25.157 =	_____
_____	34.25	_____	x 25.516 =	_____
_____	34.50	_____	x 38.950 =	_____
			TOTAL	_____

TOTAL_____ ÷ 1979.60 = MEAN VEL_____

PIPE ID = 35.75" # OF DATA POINTS 29

33.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	× 95.807 =	_____
_____	0.25	_____	× 26.479 =	_____
_____	0.50	_____	× 26.076 =	_____
_____	0.75	_____	× 25.673 =	_____
_____	1.00	_____	× 37.759 =	_____
_____	1.50	_____	× 48.934 =	_____
_____	2.00	_____	× 70.406 =	_____
_____	3.00	_____	× 88.251 =	_____
_____	4.00	_____	× 120.461 =	_____
_____	6.00	_____	× 138.319 =	_____
_____	8.00	_____	×113.072 =	
_____	10.00	_____	× 87.992 =	_____
_____	12.00	_____	× 63.078 =	_____
_____	14.00	_____	× 38.332 =	_____
_____	16.00	_____	× 13.800 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	18.00	_____	× 10.707 =	_____
_____	20.00	_____	× 34.905 =	_____
_____	22.00	_____	× 58.984 =	_____
_____	24.00	_____	× 82.896 =	_____
_____	26.00	_____	× 106.640 =	_____
_____	28.00	_____	× 130.218 =	_____
_____	30.00	_____	× 153.629 =	_____
_____	32.00	_____	× 130.425 =	_____
_____	33.00	_____	× 70.105 =	_____
_____	33.50	_____	× 48.549 =	_____
_____	34.00	_____	× 37.352 =	_____
_____	34.25	_____	× 25.353 =	_____
_____	34.50	_____	× 25.712 =	_____
_____	34.75	_____	× 39.244 =	_____
			TOTAL	_____

TOTAL_____ ÷ 2007.58 = MEAN VEL_____

35.75

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PIPE ID = 36.00" # OF DATA POINTS 30

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	96.494	=	_____
_____	0.25	_____	x	26.676	=	_____
_____	0.50	_____	x	26.273	=	_____
_____	0.75	_____	x	25.870	=	_____
_____	1.00	_____	x	38.055	=	_____
_____	1.50	_____	x	49.328	=	_____
_____	2.00	_____	x	70.997	=	_____
_____	3.00	_____	x	89.039	=	_____
_____	4.00	_____	x	121.643	=	_____
_____	6.00	_____	x	139.894	=	_____
_____	8.00	_____	x	114.643	=	_____
_____	10.00	_____	x	89.557	=	_____
_____	12.00	_____	x	64.636	=	_____
_____	14.00	_____	x	39.879	=	_____
_____	16.00	_____	x	15.478	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	9.331	=	_____
_____	20.00	_____	x	33.404	=	_____
_____	22.00	_____	x	57.502	=	_____
_____	24.00	_____	x	81.436	=	_____
_____	26.00	_____	x	105.205	=	_____
_____	28.00	_____	x	128.809	=	_____
_____	30.00	_____	x	152.249	=	_____
_____	32.00	_____	x	129.412	=	_____
_____	33.00	_____	x	69.606	=	_____
_____	33.50	_____	x	48.218	=	_____
_____	34.00	_____	x	37.105	=	_____
_____	34.25	_____	x	25.189	=	_____
_____	34.50	_____	x	25.548	=	_____
_____	34.75	_____	x	25.907	=	_____
_____	35.00	_____	x	39.538	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2035.75 = MEAN VEL_____

36.00

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PIPE ID = 36.25" # OF DATA POINTS 29

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	97.182	=	_____
_____	0.25	_____	x	26.872	=	_____
_____	0.50	_____	x	26.469	=	_____
_____	0.75	_____	x	26.067	=	_____
_____	1.00	_____	x	38.350	=	_____
_____	1.50	_____	x	49.721	=	_____
_____	2.00	_____	x	71.587	=	_____
_____	3.00	_____	x	89.827	=	_____
_____	4.00	_____	x	122.825	=	_____
_____	6.00	_____	x	141.469	=	_____
_____	8.00	_____	x	116.215	=	_____
_____	10.00	_____	x	91.123	=	_____
_____	12.00	_____	x	66.193	=	_____
_____	14.00	_____	x	41.426	=	_____
_____	16.00	_____	x	17.252	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	8.049	=	_____
_____	20.00	_____	x	31.901	=	_____
_____	22.00	_____	x	56.018	=	_____
_____	24.00	_____	x	79.973	=	_____
_____	26.00	_____	x	103.766	=	_____
_____	28.00	_____	x	127.397	=	_____
_____	30.00	_____	x	150.865	=	_____
_____	32.00	_____	x	128.395	=	_____
_____	33.00	_____	x	92.881	=	_____
_____	34.00	_____	x	73.436	=	_____
_____	34.50	_____	x	37.937	=	_____
_____	34.75	_____	x	25.744	=	_____
_____	35.00	_____	x	26.103	=	_____
_____	35.25	_____	x	39.832	=	_____
_____					TOTAL	_____

TOTAL_____÷ 2064.12 = MEAN VEL_____

36.25

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	97.870	=	_____
_____	0.25	_____	x	27.069	=	_____
_____	0.50	_____	x	26.666	=	_____
_____	0.75	_____	x	26.263	=	_____
_____	1.00	_____	x	38.645	=	_____
_____	1.50	_____	x	50.115	=	_____
_____	2.00	_____	x	72.178	=	_____
_____	3.00	_____	x	90.615	=	_____
_____	4.00	_____	x	124.006	=	_____
_____	6.00	_____	x	143.044	=	_____
_____	8.00	_____	x	117.786	=	_____
_____	10.00	_____	x	92.689	=	_____
_____	12.00	_____	x	67.752	=	_____
_____	14.00	_____	x	42.975	=	_____
_____	16.00	_____	x	19.122	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	6.862	=	_____
_____	20.00	_____	x	30.396	=	_____
_____	22.00	_____	x	54.532	=	_____
_____	24.00	_____	x	78.508	=	_____
_____	26.00	_____	x	102.325	=	_____
_____	28.00	_____	x	125.981	=	_____
_____	30.00	_____	x	149.476	=	_____
_____	32.00	_____	x	127.374	=	_____
_____	33.00	_____	x	92.210	=	_____
_____	34.00	_____	x	72.938	=	_____
_____	34.50	_____	x	37.690	=	_____
_____	34.75	_____	x	25.580	=	_____
_____	35.00	_____	x	25.939	=	_____
_____	35.25	_____	x	26.299	=	_____
_____	35.50	_____	x	40.126	=	_____
					TOTAL	_____

TOTAL_____ ÷ 2092.69 = MEAN VEL_____

36.50

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PIPE ID = 36.75" # OF DATA POINTS 30

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	98.557	=	_____
_____	0.25	_____	x	27.265	=	_____
_____	0.50	_____	x	26.863	=	_____
_____	0.75	_____	x	26.460	=	_____
_____	1.00	_____	x	38.940	=	_____
_____	1.50	_____	x	50.508	=	_____
_____	2.00	_____	x	72.769	=	_____
_____	3.00	_____	x	91.403	=	_____
_____	4.00	_____	x	125.188	=	_____
_____	6.00	_____	x	144.619	=	_____
_____	8.00	_____	x	119.358	=	_____
_____	10.00	_____	x	94.255	=	_____
_____	12.00	_____	x	69.310	=	_____
_____	14.00	_____	x	44.523	=	_____
_____	16.00	_____	x	21.090	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	5.768	=	_____
_____	20.00	_____	x	28.889	=	_____
_____	22.00	_____	x	53.044	=	_____
_____	24.00	_____	x	77.041	=	_____
_____	26.00	_____	x	100.880	=	_____
_____	28.00	_____	x	124.561	=	_____
_____	30.00	_____	x	148.084	=	_____
_____	32.00	_____	x	126.350	=	_____
_____	33.00	_____	x	91.536	=	_____
_____	34.00	_____	x	72.439	=	_____
_____	34.50	_____	x	50.108	=	_____
_____	35.00	_____	x	38.523	=	_____
_____	35.25	_____	x	26.135	=	_____
_____	35.50	_____	x	26.495	=	_____
_____	35.75	_____	x	40.420	=	_____
_____						

TOTAL _____

TOTAL_____ ÷ 2121.46 = MEAN VEL_____

36.75

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PIPE ID = 37.00" # OF DATA POINTS 31

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	99.245	=	_____
_____	0.25	_____	x	27.462	=	_____
_____	0.50	_____	x	27.059	=	_____
_____	0.75	_____	x	26.657	=	_____
_____	1.00	_____	x	39.235	=	_____
_____	1.50	_____	x	50.902	=	_____
_____	2.00	_____	x	73.359	=	_____
_____	3.00	_____	x	92.191	=	_____
_____	4.00	_____	x	126.370	=	_____
_____	6.00	_____	x	146.194	=	_____
_____	8.00	_____	x	120.930	=	_____
_____	10.00	_____	x	95.822	=	_____
_____	12.00	_____	x	70.869	=	_____
_____	14.00	_____	x	46.073	=	_____
_____	16.00	_____	x	23.155	=	_____

REF (RD)SENSOR DISTANCELOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____ 18.00	_____	x	4.769	=	_____
_____ 20.00	_____	x	27.381	=	_____
_____ 22.00	_____	x	51.554	=	_____
_____ 24.00	_____	x	75.571	=	_____
_____ 26.00	_____	x	99.432	=	_____
_____ 28.00	_____	x	123.137	=	_____
_____ 30.00	_____	x	146.687	=	_____
_____ 32.00	_____	x	125.322	=	_____
_____ 33.00	_____	x	90.859	=	_____
_____ 34.00	_____	x	71.937	=	_____
_____ 34.50	_____	x	49.776	=	_____
_____ 35.00	_____	x	38.276	=	_____
_____ 35.25	_____	x	25.970	=	_____
_____ 35.50	_____	x	26.331	=	_____
_____ 35.75	_____	x	26.690	=	_____
_____ 36.00	_____	x	40.714	=	_____
_____				TOTAL	_____

TOTAL_____ ÷ 2150.42 = MEAN VEL_____

37.00

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PIPE ID = 37.25" # OF DATA POINTS 29

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	99.933	=	_____
_____	0.25	_____	x	27.659	=	_____
_____	0.50	_____	x	27.256	=	_____
_____	0.75	_____	x	26.853	=	_____
_____	1.00	_____	x	39.530	=	_____
_____	1.50	_____	x	51.295	=	_____
_____	2.00	_____	x	73.950	=	_____
_____	3.00	_____	x	92.979	=	_____
_____	4.00	_____	x	127.552	=	_____
_____	6.00	_____	x	147.769	=	_____
_____	8.00	_____	x	122.502	=	_____
_____	10.00	_____	x	97.389	=	_____
_____	12.00	_____	x	72.429	=	_____
_____	14.00	_____	x	47.623	=	_____
_____	16.00	_____	x	25.317	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	3.864	=	_____
_____	20.00	_____	x	25.871	=	_____
_____	22.00	_____	x	50.062	=	_____
_____	24.00	_____	x	74.098	=	_____
_____	26.00	_____	x	97.981	=	_____
_____	28.00	_____	x	121.711	=	_____
_____	30.00	_____	x	145.286	=	_____
_____	32.00	_____	x	168.708	=	_____
_____	34.00	_____	x	141.749	=	_____
_____	35.00	_____	x	75.775	=	_____
_____	35.50	_____	x	39.109	=	_____
_____	35.75	_____	x	26.526	=	_____
_____	36.00	_____	x	26.886	=	_____
_____	36.25	_____	x	41.008	=	_____
_____				TOTAL		_____

TOTAL_____÷ 2179.58 = MEAN VEL_____

37.25

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PIPE ID = 37.50" # OF DATA POINTS 30

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	100.620	=	_____
_____	0.25	_____	x	27.855	=	_____
_____	0.50	_____	x	27.452	=	_____
_____	0.75	_____	x	27.050	=	_____
_____	1.00	_____	x	39.825	=	_____
_____	1.50	_____	x	51.689	=	_____
_____	2.00	_____	x	74.540	=	_____
_____	3.00	_____	x	93.767	=	_____
_____	4.00	_____	x	128.734	=	_____
_____	6.00	_____	x	149.344	=	_____
_____	8.00	_____	x	124.074	=	_____
_____	10.00	_____	x	98.956	=	_____
_____	12.00	_____	x	73.989	=	_____
_____	14.00	_____	x	49.174	=	_____
_____	16.00	_____	x	24.511	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	6.109	=	_____
_____	20.00	_____	x	24.360	=	_____
_____	22.00	_____	x	48.567	=	_____
_____	24.00	_____	x	72.623	=	_____
_____	26.00	_____	x	96.528	=	_____
_____	28.00	_____	x	120.280	=	_____
_____	30.00	_____	x	143.881	=	_____
_____	32.00	_____	x	167.331	=	_____
_____	34.00	_____	x	140.737	=	_____
_____	35.00	_____	x	75.275	=	_____
_____	35.50	_____	x	38.861	=	_____
_____	35.75	_____	x	26.361	=	_____
_____	36.00	_____	x	26.722	=	_____
_____	36.25	_____	x	27.082	=	_____
_____	36.50	_____	x	41.302	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2208.93 = MEAN VEL_____

37.50

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PIPE ID = 37.75" # OF DATA POINTS 30

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	101.308	=	_____
_____	0.25	_____	x	28.052	=	_____
_____	0.50	_____	x	27.649	=	_____
_____	0.75	_____	x	27.247	=	_____
_____	1.00	_____	x	40.120	=	_____
_____	1.50	_____	x	52.083	=	_____
_____	2.00	_____	x	75.131	=	_____
_____	3.00	_____	x	94.554	=	_____
_____	4.00	_____	x	129.915	=	_____
_____	6.00	_____	x	150.919	=	_____
_____	8.00	_____	x	125.646	=	_____
_____	10.00	_____	x	100.523	=	_____
_____	12.00	_____	x	75.550	=	_____
_____	14.00	_____	x	50.726	=	_____
_____	16.00	_____	x	26.052	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	3.867	=	_____
_____	20.00	_____	x	25.179	=	_____
_____	22.00	_____	x	47.071	=	_____
_____	24.00	_____	x	71.146	=	_____
_____	26.00	_____	x	95.072	=	_____
_____	28.00	_____	x	118.847	=	_____
_____	30.00	_____	x	142.473	=	_____
_____	32.00	_____	x	165.949	=	_____
_____	34.00	_____	x	139.721	=	_____
_____	35.00	_____	x	74.773	=	_____
_____	35.50	_____	x	51.668	=	_____
_____	36.00	_____	x	39.695	=	_____
_____	36.25	_____	x	26.917	=	_____
_____	36.50	_____	x	27.278	=	_____
_____	36.75	_____	x	41.596	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2238.48 = MEAN VEL_____

37.75

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PIPE ID = 38.00"

OF DATA POINTS 31

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	101.995	=	
	0.25		x	28.248	=	
	0.50		x	27.845	=	
	0.75		x	27.443	=	
	1.00		x	40.415	=	
	1.50		x	52.476	=	
	2.00		x	75.721	=	
	3.00		x	95.342	=	
	4.00		x	131.097	=	
	6.00		x	152.494	=	
	8.00		x	127.218	=	
	10.00		x	102.090	=	
	12.00		x	77.110	=	
	14.00		x	52.278	=	
	16.00		x	27.593	=	

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	18.00		x	4.776	=	
	20.00		x	23.047	=	
	22.00		x	45.574	=	
	24.00		x	69.667	=	
	26.00		x	93.613	=	
	28.00		x	117.411	=	
	30.00		x	141.061	=	
	32.00		x	164.563	=	
	34.00		x	138.701	=	
	35.00		x	74.269	=	
	35.50		x	51.334	=	
	36.00		x	39.447	=	
	36.25		x	26.752	=	
	36.50		x	27.113	=	
	36.75		x	27.474	=	
	37.00		x	41.890	=	
				TOTAL		

TOTAL_____ ÷ 2268.23 = MEAN VEL_____

38.00

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PIPE ID = 38.25" # OF DATA POINTS 30

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	102.683	=	_____
_____	0.25	_____	x	28.445	=	_____
_____	0.50	_____	x	28.042	=	_____
_____	0.75	_____	x	27.640	=	_____
_____	1.00	_____	x	40.710	=	_____
_____	1.50	_____	x	52.870	=	_____
_____	2.00	_____	x	76.312	=	_____
_____	3.00	_____	x	96.130	=	_____
_____	4.00	_____	x	132.279	=	_____
_____	6.00	_____	x	154.069	=	_____
_____	8.00	_____	x	128.791	=	_____
_____	10.00	_____	x	103.658	=	_____
_____	12.00	_____	x	78.672	=	_____
_____	14.00	_____	x	53.831	=	_____
_____	16.00	_____	x	29.136	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	5.781	=	_____
_____	20.00	_____	x	21.007	=	_____
_____	22.00	_____	x	44.074	=	_____
_____	24.00	_____	x	68.186	=	_____
_____	26.00	_____	x	92.151	=	_____
_____	28.00	_____	x	115.971	=	_____
_____	30.00	_____	x	139.645	=	_____
_____	32.00	_____	x	163.173	=	_____
_____	34.00	_____	x	137.678	=	_____
_____	35.00	_____	x	99.096	=	_____
_____	36.00	_____	x	78.114	=	_____
_____	36.50	_____	x	40.282	=	_____
_____	36.75	_____	x	27.309	=	_____
_____	37.00	_____	x	27.669	=	_____
_____	37.25	_____	x	42.184	=	_____
_____					TOTAL	_____

TOTAL_____÷ 2298.17 = MEAN VEL_____

38.25

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PIPE ID = 38.50" # OF DATA POINTS 31

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	103.370	=	_____
_____	0.25	_____	x	28.641	=	_____
_____	0.50	_____	x	28.239	=	_____
_____	0.75	_____	x	27.836	=	_____
_____	1.00	_____	x	41.005	=	_____
_____	1.50	_____	x	53.263	=	_____
_____	2.00	_____	x	76.902	=	_____
_____	3.00	_____	x	96.918	=	_____
_____	4.00	_____	x	133.460	=	_____
_____	6.00	_____	x	155.644	=	_____
_____	8.00	_____	x	130.363	=	_____
_____	10.00	_____	x	105.226	=	_____
_____	12.00	_____	x	80.233	=	_____
_____	14.00	_____	x	55.384	=	_____
_____	16.00	_____	x	30.679	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	6.883	=	_____
_____	20.00	_____	x	19.062	=	_____
_____	22.00	_____	x	42.573	=	_____
_____	24.00	_____	x	66.702	=	_____
_____	26.00	_____	x	90.687	=	_____
_____	28.00	_____	x	114.529	=	_____
_____	30.00	_____	x	138.226	=	_____
_____	32.00	_____	x	161.780	=	_____
_____	34.00	_____	x	136.652	=	_____
_____	35.00	_____	x	98.420	=	_____
_____	36.00	_____	x	77.612	=	_____
_____	36.50	_____	x	40.032	=	_____
_____	36.75	_____	x	27.143	=	_____
_____	37.00	_____	x	27.504	=	_____
_____	37.25	_____	x	27.865	=	_____
_____	37.50	_____	x	42.479	=	_____
					TOTAL	_____

TOTAL_____ ÷ 2328.31 = MEAN VEL_____

38.50

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PIPE ID = 38.75" # OF DATA POINTS 31

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	104.058	=	_____
_____	0.25	_____	x	28.838	=	_____
_____	0.50	_____	x	28.435	=	_____
_____	0.75	_____	x	28.033	=	_____
_____	1.00	_____	x	41.300	=	_____
_____	1.50	_____	x	53.657	=	_____
_____	2.00	_____	x	77.493	=	_____
_____	3.00	_____	x	97.705	=	_____
_____	4.00	_____	x	134.642	=	_____
_____	6.00	_____	x	157.219	=	_____
_____	8.00	_____	x	131.936	=	_____
_____	10.00	_____	x	106.794	=	_____
_____	12.00	_____	x	81.795	=	_____
_____	14.00	_____	x	56.938	=	_____
_____	16.00	_____	x	32.223	=	_____

R EF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	8.080	=	_____
_____	20.00	_____	x	17.210	=	_____
_____	22.00	_____	x	41.070	=	_____
_____	24.00	_____	x	65.216	=	_____
_____	26.00	_____	x	89.221	=	_____
_____	28.00	_____	x	113.083	=	_____
_____	30.00	_____	x	136.804	=	_____
_____	32.00	_____	x	160.382	=	_____
_____	34.00	_____	x	135.622	=	_____
_____	35.00	_____	x	97.741	=	_____
_____	36.00	_____	x	77.108	=	_____
_____	36.50	_____	x	53.228	=	_____
_____	37.00	_____	x	40.868	=	_____
_____	37.25	_____	x	27.700	=	_____
_____	37.50	_____	x	28.061	=	_____
_____	37.75	_____	x	42.773	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 2358.65 = MEAN VEL_____

38.75

PIPE ID = 39.00" # OF DATA POINTS 32

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	104.746	=	_____
_____	0.25	_____	x	29.034	=	_____
_____	0.50	_____	x	28.632	=	_____
_____	0.75	_____	x	28.230	=	_____
_____	1.00	_____	x	41.595	=	_____
_____	1.50	_____	x	54.050	=	_____
_____	2.00	_____	x	78.083	=	_____
_____	3.00	_____	x	98.493	=	_____
_____	4.00	_____	x	135.824	=	_____
_____	6.00	_____	x	158.794	=	_____
_____	8.00	_____	x	133.508	=	_____
_____	10.00	_____	x	108.363	=	_____
_____	12.00	_____	x	83.357	=	_____
_____	14.00	_____	x	58.492	=	_____
_____	16.00	_____	x	33.767	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	9.374	=	_____
_____	20.00	_____	x	15.452	=	_____
_____	22.00	_____	x	39.565	=	_____
_____	24.00	_____	x	63.729	=	_____
_____	26.00	_____	x	87.752	=	_____
_____	28.00	_____	x	111.635	=	_____
_____	30.00	_____	x	135.378	=	_____
_____	32.00	_____	x	158.980	=	_____
_____	34.00	_____	x	134.589	=	_____
_____	35.00	_____	x	97.061	=	_____
_____	36.00	_____	x	76.603	=	_____
_____	36.50	_____	x	52.893	=	_____
_____	37.00	_____	x	40.618	=	_____
_____	37.25	_____	x	27.534	=	_____
_____	37.50	_____	x	27.895	=	_____
_____	37.75	_____	x	28.257	=	_____
_____	38.00	_____	X	43.067	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2389.18 = MEAN VEL_____

39.00

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PIPE ID = 39.25" # OF DATA POINTS 30

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	105.433	=	_____
_____	0.25	_____	x	29.231	=	_____
_____	0.50	_____	x	28.828	=	_____
_____	0.75	_____	x	28.426	=	_____
_____	1.00	_____	x	41.890	=	_____
_____	1.50	_____	x	54.444	=	_____
_____	2.00	_____	x	78.673	=	_____
_____	3.00	_____	x	99.281	=	_____
_____	4.00	_____	x	137.005	=	_____
_____	6.00	_____	x	160.369	=	_____
_____	8.00	_____	x	135.081	=	_____
_____	10.00	_____	x	109.931	=	_____
_____	12.00	_____	x	84.920	=	_____
_____	14.00	_____	x	60.047	=	_____
_____	16.00	_____	x	35.313	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	10.765	=	_____
_____	20.00	_____	x	13.788	=	_____
_____	22.00	_____	x	38.059	=	_____
_____	24.00	_____	x	62.239	=	_____
_____	26.00	_____	x	86.281	=	_____
_____	28.00	_____	x	110.184	=	_____
_____	30.00	_____	x	133.949	=	_____
_____	32.00	_____	x	157.575	=	_____
_____	34.00	_____	x	181.063	=	_____
_____	36.00	_____	x	151.071	=	_____
_____	37.00	_____	x	80.454	=	_____
_____	37.50	_____	x	41.454	=	_____
_____	37.75	_____	x	28.091	=	_____
_____	38.00	_____	x	28.453	=	_____
_____	38.25	_____	x	43.361	=	_____
_____					TOTAL	_____

TOTAL_____÷ 2419.91 = MEAN VEL_____

39.25

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PIPE ID = 39.50" # OF DATA POINTS 31

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	106.121	=	_____
_____	0.25	_____	x	29.427	=	_____
_____	0.50	_____	x	29.025	=	_____
_____	0.75	_____	x	28.623	=	_____
_____	1.00	_____	x	42.185	=	_____
_____	1.50	_____	x	54.837	=	_____
_____	2.00	_____	x	79.264	=	_____
_____	3.00	_____	x	100.068	=	_____
_____	4.00	_____	x	138.187	=	_____
_____	6.00	_____	x	161.944	=	_____
_____	8.00	_____	x	136.654	=	_____
_____	10.00	_____	x	111.500	=	_____
_____	12.00	_____	x	86.483	=	_____
_____	14.00	_____	x	61.603	=	_____
_____	16.00	_____	x	36.859	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	12.252	=	_____
_____	20.00	_____	x	12.218	=	_____
_____	22.00	_____	x	36.551	=	_____
_____	24.00	_____	x	60.748	=	_____
_____	26.00	_____	x	84.808	=	_____
_____	28.00	_____	x	108.731	=	_____
_____	30.00	_____	x	132.517	=	_____
_____	32.00	_____	x	156.166	=	_____
_____	34.00	_____	x	179.679	=	_____
_____	36.00	_____	x	150.052	=	_____
_____	37.00	_____	x	79.950	=	_____
_____	37.50	_____	x	41.204	=	_____
_____	37.75	_____	x	27.925	=	_____
_____	38.00	_____	x	28.287	=	_____
_____	38.25	_____	x	28.649	=	_____
_____	38.50	_____	x	43.655	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2450.83 = MEAN VEL_____

39.50

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PIPE ID = 39.75" # OF DATA POINTS 31

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 106.808 =	_____
_____	0.25	_____	x 29.624 =	_____
_____	0.50	_____	x 29.221 =	_____
_____	0.75	_____	x 28.819 =	_____
_____	1.00	_____	x 42.480 =	_____
_____	1.50	_____	x 55.231 =	_____
_____	2.00	_____	x 79.854 =	_____
_____	3.00	_____	x 100.856 =	_____
_____	4.00	_____	x 139.368 =	_____
_____	6.00	_____	x 163.520 =	_____
_____	8.00	_____	x 138.227 =	_____
_____	10.00	_____	x 113.069 =	_____
_____	12.00	_____	x 88.046 =	_____
_____	14.00	_____	x 63.158 =	_____
_____	16.00	_____	x 38.406 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	18.00	_____	x 13.836 =	_____
_____	20.00	_____	x 10.742 =	_____
_____	22.00	_____	x 35.042 =	_____
_____	24.00	_____	x 59.255 =	_____
_____	26.00	_____	x 83.332 =	_____
_____	28.00	_____	x 107.274 =	_____
_____	30.00	_____	x 131.082 =	_____
_____	32.00	_____	x 154.754 =	_____
_____	34.00	_____	x 178.291 =	_____
_____	36.00	_____	x 149.029 =	_____
_____	37.00	_____	x 79.445 =	_____
_____	37.50	_____	x 54.789 =	_____
_____	38.00	_____	x 42.041 =	_____
_____	38.25	_____	x 28.482 =	_____
_____	38.50	_____	x 28.845 =	_____
_____	38.75	_____	x 43.949 =	_____
			TOTAL	_____

TOTAL_____ ÷ 2481.96 = MEAN VEL_____

39.75

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PIPE ID = 40.00" # OF DATA POINTS 32

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	107.496	=	_____
_____	0.25	_____	x	29.820	=	_____
_____	0.50	_____	x	29.418	=	_____
_____	0.75	_____	x	29.016	=	_____
_____	1.00	_____	x	42.775	=	_____
_____	1.50	_____	x	55.624	=	_____
_____	2.00	_____	x	80.445	=	_____
_____	3.00	_____	x	101.644	=	_____
_____	4.00	_____	x	140.550	=	_____
_____	6.00	_____	x	165.095	=	_____
_____	8.00	_____	x	139.800	=	_____
_____	10.00	_____	x	114.638	=	_____
_____	12.00	_____	x	89.610	=	_____
_____	14.00	_____	x	64.715	=	_____
_____	16.00	_____	x	39.953	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	15.516	=	_____
_____	20.00	_____	x	9.361	=	_____
_____	22.00	_____	x	33.531	=	_____
_____	24.00	_____	x	57.760	=	_____
_____	26.00	_____	x	81.854	=	_____
_____	28.00	_____	x	105.816	=	_____
_____	30.00	_____	x	129.644	=	_____
_____	32.00	_____	x	153.339	=	_____
_____	34.00	_____	x	176.900	=	_____
_____	36.00	_____	x	148.003	=	_____
_____	37.00	_____	x	78.937	=	_____
_____	37.50	_____	x	54.453	=	_____
_____	38.00	_____	x	41.789	=	_____
_____	38.25	_____	x	28.316	=	_____
_____	38.50	_____	x	28.678	=	_____
_____	38.75	_____	x	29.040	=	_____
_____	39.00	_____	x	44.243	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2513.27 = MEAN VEL_____

40.00

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PIPE ID = 40.25" # OF DATA POINTS 31

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 108.183 =	_____
_____	0.25	_____	x 30.017 =	_____
_____	0.50	_____	x 29.615 =	_____
_____	0.75	_____	x 29.213 =	_____
_____	1.00	_____	x 43.070 =	_____
_____	1.50	_____	x 56.017 =	_____
_____	2.00	_____	x 81.035 =	_____
_____	3.00	_____	x 102.431 =	_____
_____	4.00	_____	x 141.731 =	_____
_____	6.00	_____	x 166.670 =	_____
_____	8.00	_____	x 141.373 =	_____
_____	10.00	_____	x 116.207 =	_____
_____	12.00	_____	x 91.174 =	_____
_____	14.00	_____	x 66.272 =	_____
_____	16.00	_____	x 41.501 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	18.00	_____	x 17.294 =	_____
_____	20.00	_____	x 8.074 =	_____
_____	22.00	_____	x 32.019 =	_____
_____	24.00	_____	x 56.263 =	_____
_____	26.00	_____	x 80.375 =	_____
_____	28.00	_____	x 104.355 =	_____
_____	30.00	_____	x 128.203 =	_____
_____	32.00	_____	x 151.920 =	_____
_____	34.00	_____	x 175.505 =	_____
_____	36.00	_____	x 146.974 =	_____
_____	37.00	_____	x 105.317 =	_____
_____	38.00	_____	x 82.795 =	_____
_____	38.50	_____	x 42.627 =	_____
_____	38.75	_____	x 28.874 =	_____
_____	39.00	_____	x 29.236 =	_____
_____	39.25	_____	x 44.537 =	_____
			TOTAL	_____

TOTAL_____ ÷ 2544.79 = MEAN VEL_____

40.25

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PIPE ID = 40.50" # OF DATA POINTS 32

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	108.871	=	_____
_____	0.25	_____	x	30.213	=	_____
_____	0.50	_____	x	29.811	=	_____
_____	0.75	_____	x	29.409	=	_____
_____	1.00	_____	x	43.365	=	_____
_____	1.50	_____	x	56.411	=	_____
_____	2.00	_____	x	81.625	=	_____
_____	3.00	_____	x	103.219	=	_____
_____	4.00	_____	x	142.913	=	_____
_____	6.00	_____	x	168.245	=	_____
_____	8.00	_____	x	142.946	=	_____
_____	10.00	_____	x	117.777	=	_____
_____	12.00	_____	x	92.738	=	_____
_____	14.00	_____	x	67.829	=	_____
_____	16.00	_____	x	43.050	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	19.168	=	_____
_____	20.00	_____	x	6.882	=	_____
_____	22.00	_____	x	30.506	=	_____
_____	24.00	_____	x	54.764	=	_____
_____	26.00	_____	x	78.893	=	_____
_____	28.00	_____	x	102.891	=	_____
_____	30.00	_____	x	126.759	=	_____
_____	32.00	_____	x	150.498	=	_____
_____	34.00	_____	x	174.106	=	_____
_____	36.00	_____	x	145.942	=	_____
_____	37.00	_____	x	104.637	=	_____
_____	38.00	_____	x	82.289	=	_____
_____	38.50	_____	x	42.375	=	_____
_____	38.75	_____	x	28.707	=	_____
_____	39.00	_____	x	29.070	=	_____
_____	39.25	_____	x	29.432	=	_____
_____	39.50	_____	x	44.832	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2576.50 = MEAN VEL_____

40.50

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PIPE ID = 40.75" # OF DATA POINTS 32

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	109.559	=	_____
_____	0.25	_____	x	30.410	=	_____
_____	0.50	_____	x	30.008	=	_____
_____	0.75	_____	x	29.606	=	_____
_____	1.00	_____	x	43.660	=	_____
_____	1.50	_____	x	56.804	=	_____
_____	2.00	_____	x	82.216	=	_____
_____	3.00	_____	x	104.006	=	_____
_____	4.00	_____	x	144.049	=	_____
_____	6.00	_____	x	169.820	=	_____
_____	8.00	_____	x	144.094	=	_____
_____	10.00	_____	x	119.346	=	_____
_____	12.00	_____	x	94.302	=	_____
_____	14.00	_____	x	69.386	=	_____
_____	16.00	_____	x	44.599	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	21.139	=	_____
_____	20.00	_____	x	5.785	=	_____
_____	22.00	_____	x	28.991	=	_____
_____	24.00	_____	x	53.264	=	_____
_____	26.00	_____	x	77.409	=	_____
_____	28.00	_____	x	101.425	=	_____
_____	30.00	_____	x	125.313	=	_____
_____	32.00	_____	x	149.072	=	_____
_____	34.00	_____	x	172.703	=	_____
_____	36.00	_____	x	144.907	=	_____
_____	37.00	_____	x	103.954	=	_____
_____	38.00	_____	x	81.782	=	_____
_____	38.50	_____	x	56.351	=	_____
_____	39.00	_____	x	43.213	=	_____
_____	39.25	_____	x	29.265	=	_____
_____	39.50	_____	x	29.628	=	_____
_____	39.75	_____	x	45.126	=	_____
_____					TOTAL	_____

TOTAL_____÷ 2608.41 = MEAN VEL_____

40.75

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PIPE ID = 41.00" # OF DATA POINTS 33

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	110.246	=	
	0.25		x	30.606	=	
	0.50		x	30.204	=	
	0.75		x	29.802	=	
	1.00		x	43.955	=	
	1.50		x	57.198	=	
	2.00		x	82.806	=	
	3.00		x	104.794	=	
	4.00		x	145.276	=	
	6.00		x	171.395	=	
	8.00		x	146.092	=	
	10.00		x	120.916	=	
	12.00		x	95.867	=	
	14.00		x	70.944	=	
	16.00		x	46.149	=	
	18.00		x	23.207	=	
	20.00		x	4.782	=	
	22.00		x	27.475	=	
	24.00		x	51.763	=	
	26.00		x	75.924	=	
	28.00		x	99.957	=	
	30.00		x	123.864	=	
	32.00		x	147.644	=	
	34.00		x	171.297	=	
	36.00		x	143.869	=	
	37.00		x	103.269	=	
	38.00		x	81.273	=	
	38.50		x	56.013	=	
	39.00		x	42.961	=	
	39.25		x	29.098	=	
	39.50		x	29.461	=	
	39.75		x	29.824	=	
	40.00		x	45.420	=	
					TOTAL	

TOTAL_____ ÷ 2640.51 = MEAN VEL_____

41.00

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PIPE ID = 41.25" # OF DATA POINTS 31

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	110.934	=	_____
_____	0.25	_____	x	30.803	=	_____
_____	0.50	_____	x	30.401	=	_____
_____	0.75	_____	x	29.999	=	_____
_____	1.00	_____	x	44.249	=	_____
_____	1.50	_____	x	57.591	=	_____
_____	2.00	_____	x	83.396	=	_____
_____	3.00	_____	x	105.581	=	_____
_____	4.00	_____	x	146.457	=	_____
_____	6.00	_____	x	172.970	=	_____
_____	8.00	_____	x	147.665	=	_____
_____	10.00	_____	x	122.486	=	_____
_____	12.00	_____	x	97.432	=	_____
_____	14.00	_____	x	72.503	=	_____
_____	16.00	_____	x	47.700	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	25.372	=	_____
_____	20.00	_____	x	3.875	=	_____
_____	22.00	_____	x	25.958	=	_____
_____	24.00	_____	x	50.260	=	_____
_____	26.00	_____	x	74.436	=	_____
_____	28.00	_____	x	98.487	=	_____
_____	30.00	_____	x	122.413	=	_____
_____	32.00	_____	x	146.213	=	_____
_____	34.00	_____	x	169.887	=	_____
_____	36.00	_____	x	193.437	=	_____
_____	38.00	_____	x	160.402	=	_____
_____	39.00	_____	x	85.137	=	_____
_____	39.50	_____	x	43.800	=	_____
_____	39.75	_____	x	29.657	=	_____
_____	40.00	_____	x	30.020	=	_____
_____	40.25	_____	x	45.714	=	_____
_____					TOTAL	_____

TOTAL_____÷ 2672.81 = MEAN VEL_____

41.25

4-97

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PIPE ID = 41.50" # OF DATA POINTS 32

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	111.621	=	_____
_____	0.25	_____	x	30.999	=	_____
_____	0.50	_____	x	30.597	=	_____
_____	0.75	_____	x	30.196	=	_____
_____	1.00	_____	x	44.544	=	_____
_____	1.50	_____	x	57.985	=	_____
_____	2.00	_____	x	83.987	=	_____
_____	3.00	_____	x	106.369	=	_____
_____	4.00	_____	x	147.639	=	_____
_____	6.00	_____	x	174.545	=	_____
_____	8.00	_____	x	149.239	=	_____
_____	10.00	_____	x	124.056	=	_____
_____	12.00	_____	x	98.997	=	_____
_____	14.00	_____	x	74.062	=	_____
_____	16.00	_____	x	49.251	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	24.563	=	_____
_____	20.00	_____	x	6.125	=	_____
_____	22.00	_____	x	24.439	=	_____
_____	24.00	_____	x	48.755	=	_____
_____	26.00	_____	x	72.947	=	_____
_____	28.00	_____	x	97.015	=	_____
_____	30.00	_____	x	120.958	=	_____
_____	32.00	_____	x	144.778	=	_____
_____	34.00	_____	x	168.475	=	_____
_____	36.00	_____	x	192.047	=	_____
_____	38.00	_____	x	159.377	=	_____
_____	39.00	_____	x	4.629	=	_____
_____	39.50	_____	x	43.547	=	_____
_____	39.75	_____	x	29.489	=	_____
_____	40.00	_____	x	29.852	=	_____
_____	40.25	_____	x	30.216	=	_____
_____	40.50	_____	x	46.008	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 2705.30 = MEAN VEL_____

41.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	112.309	=	_____
_____	0.25	_____	x	31.196	=	_____
_____	0.50	_____	x	30.794	=	_____
_____	0.75	_____	x	30.392	=	_____
_____	1.00	_____	x	44.839	=	_____
_____	1.50	_____	x	58.378	=	_____
_____	2.00	_____	x	84.577	=	_____
_____	3.00	_____	x	107.156	=	_____
_____	4.00	_____	x	148.820	=	_____
_____	6.00	_____	x	176.120	=	_____
_____	8.00	_____	x	150.812	=	_____
_____	10.00	_____	x	125.626	=	_____
_____	12.00	_____	x	100.562	=	_____
_____	14.00	_____	x	75.621	=	_____
_____	16.00	_____	x	50.802	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	26.106	=	_____
_____	20.00	_____	x	3.877	=	_____
_____	22.00	_____	x	25.259	=	_____
_____	24.00	_____	x	47.249	=	_____
_____	26.00	_____	x	71.456	=	_____
_____	28.00	_____	x	95.540	=	_____
_____	30.00	_____	x	119.502	=	_____
_____	32.00	_____	x	143.341	=	_____
_____	34.00	_____	x	167.059	=	_____
_____	36.00	_____	x	190.653	=	_____
_____	38.00	_____	x	158.348	=	_____
_____	39.00	_____	x	84.120	=	_____
_____	39.50	_____	x	57.912	=	_____
_____	40.00	_____	x	44.387	=	_____
_____	40.25	_____	x	30.048	=	_____
_____	40.50	_____	x	30.412	=	_____
_____	40.75	_____	x	46.302	=	_____
_____					TOTAL	_____

TOTAL_____÷ 2738.00 = MEAN VEL_____

41.75

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	112.996	=	_____
_____	0.25	_____	x	31.392	=	_____
_____	0.50	_____	x	30.990	=	_____
_____	0.75	_____	x	30.589	=	_____
_____	1.00	_____	x	45.134	=	_____
_____	1.50	_____	x	58.771	=	_____
_____	2.00	_____	x	85.167	=	_____
_____	3.00	_____	x	107.944	=	_____
_____	4.00	_____	x	150.001	=	_____
_____	6.00	_____	x	177.696	=	_____
_____	8.00	_____	x	152.385	=	_____
_____	10.00	_____	x	127.196	=	_____
_____	12.00	_____	x	102.128	=	_____
_____	14.00	_____	x	77.181	=	_____
_____	16.00	_____	x	52.354	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	27.649	=	_____
_____	20.00	_____	x	4.788	=	_____
_____	22.00	_____	x	23.118	=	_____
_____	24.00	_____	x	45.741	=	_____
_____	26.00	_____	x	69.963	=	_____
_____	28.00	_____	x	94.063	=	_____
_____	30.00	_____	x	118.043	=	_____
_____	32.00	_____	x	141.902	=	_____
_____	34.00	_____	x	165.639	=	_____
_____	36.00	_____	x	189.256	=	_____
_____	38.00	_____	x	157.317	=	_____
_____	39.00	_____	x	83.609	=	_____
_____	39.50	_____	x	57.574	=	_____
_____	40.00	_____	x	44.134	=	_____
_____	40.25	_____	x	29.880	=	_____
_____	40.50	_____	x	30.244	=	_____
_____	40.75	_____	x	30.608	=	_____
_____	41.00	_____	x	46.597	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2770.88 = MEAN VEL_____

42.00

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	113.684	=	_____
_____	0.25	_____	x	31.589	=	_____
_____	0.50	_____	x	31.187	=	_____
_____	0.75	_____	x	30.785	=	_____
_____	1.00	_____	x	45.429	=	_____
_____	1.50	_____	x	59.165	=	_____
_____	2.00	_____	x	85.757	=	_____
_____	3.00	_____	x	108.731	=	_____
_____	4.00	_____	x	151.183	=	_____
_____	6.00	_____	x	179.271	=	_____
_____	8.00	_____	x	153.959	=	_____
_____	10.00	_____	x	128.767	=	_____
_____	12.00	_____	x	103.694	=	_____
_____	14.00	_____	x	78.741	=	_____
_____	16.00	_____	x	53.907	=	_____
_____	18.00	_____	x	29.193	=	_____
_____	20.00	_____	x	5.796	=	_____
_____	22.00	_____	x	21.071	=	_____
_____	24.00	_____	x	44.232	=	_____
_____	26.00	_____	x	68.468	=	_____
_____	28.00	_____	x	92.585	=	_____
_____	30.00	_____	x	116.582	=	_____
_____	32.00	_____	x	140.459	=	_____
_____	34.00	_____	x	164.217	=	_____
_____	36.00	_____	x	187.855	=	_____
_____	38.00	_____	x	156.282	=	_____
_____	39.00	_____	x	111.544	=	_____
_____	40.00	_____	x	87.479	=	_____
_____	40.50	_____	x	44.973	=	_____
_____	40.75	_____	x	30.440	=	_____
_____	41.00	_____	x	30.804	=	_____
_____	41.25	_____	x	46.891	=	_____
_____					TOTAL	_____

TOTAL_____÷ 2803.97 = MEAN VEL_____

42.25

4-101

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	114.371	=	_____
_____	0.25	_____	x	31.785	=	_____
_____	0.50	_____	x	31.383	=	_____
_____	0.75	_____	x	30.982	=	_____
_____	1.00	_____	x	45.724	=	_____
_____	1.50	_____	x	59.558	=	_____
_____	2.00	_____	x	86.348	=	_____
_____	3.00	_____	x	109.519	=	_____
_____	4.00	_____	x	152.364	=	_____
_____	6.00	_____	x	180.846	=	_____
_____	8.00	_____	x	155.532	=	_____
_____	10.00	_____	x	130.337	=	_____
_____	12.00	_____	x	105.260	=	_____
_____	14.00	_____	x	80.301	=	_____
_____	16.00	_____	x	55.460	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	30.737	=	_____
_____	20.00	_____	x	6.899	=	_____
_____	22.00	_____	x	19.119	=	_____
_____	24.00	_____	x	42.722	=	_____
_____	26.00	_____	x	66.972	=	_____
_____	28.00	_____	x	91.104	=	_____
_____	30.00	_____	x	115.118	=	_____
_____	32.00	_____	x	139.014	=	_____
_____	34.00	_____	x	162.792	=	_____
_____	36.00	_____	x	186.451	=	_____
_____	38.00	_____	x	155.245	=	_____
_____	39.00	_____	x	110.860	=	_____
_____	40.00	_____	x	86.970	=	_____
_____	40.50	_____	x	44.720	=	_____
_____	40.75	_____	x	30.271	=	_____
_____	41.00	_____	x	30.635	=	_____
_____	41.25	_____	x	30.999	=	_____
_____	41.50	_____	x	47.185	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2837.25 = MEAN VEL_____

42.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 115.059 =	_____
_____	0.25	_____	x 31.981 =	_____
_____	0.50	_____	x 31.580 =	_____
_____	0.75	_____	x 31.179 =	_____
_____	1.00	_____	x 46.019 =	_____
_____	1.50	_____	x 59.952 =	_____
_____	2.00	_____	x 86.938 =	_____
_____	3.00	_____	x 110.306 =	_____
_____	4.00	_____	x 153.545 =	_____
_____	6.00	_____	x 182.421 =	_____
_____	8.00	_____	x 157.106 =	_____
_____	10.00	_____	x 131.908 =	_____
_____	12.00	_____	x 106.826 =	_____
_____	14.00	_____	x 81.862 =	_____
_____	16.00	_____	x 57.014 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	18.00	_____	x 32.282 =	_____
_____	20.00	_____	x 8.099 =	_____
_____	22.00	_____	x 17.260 =	_____
_____	24.00	_____	x 41.211 =	_____
_____	26.00	_____	x 65.475 =	_____
_____	28.00	_____	x 89.622 =	_____
_____	30.00	_____	x 113.653 =	_____
_____	32.00	_____	x 137.567 =	_____
_____	34.00	_____	x 161.364 =	_____
_____	36.00	_____	x 185.044 =	_____
_____	38.00	_____	x 154.205 =	_____
_____	39.00	_____	x 110.173 =	_____
_____	40.00	_____	x 86.459 =	_____
_____	40.50	_____	x 59.475 =	_____
_____	41.00	_____	x 45.560 =	_____
_____	41.25	_____	x 30.831 =	_____
_____	41.50	_____	x 31.195 =	_____
_____	41.75	_____	x 47.479 =	_____
			TOTAL	_____

TOTAL_____ ÷ 2870.73 = MEAN VEL_____

42.75

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PIPE ID = 43.00" # OF DATA POINTS 34

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	115.746	=	_____
_____	0.25	_____	x	32.178	=	_____
_____	0.50	_____	x	31.776	=	_____
_____	0.75	_____	x	31.375	=	_____
_____	1.00	_____	x	46.314	=	_____
_____	1.50	_____	x	60.345	=	_____
_____	2.00	_____	x	87.528	=	_____
_____	3.00	_____	x	111.094	=	_____
_____	4.00	_____	x	154.727	=	_____
_____	6.00	_____	x	183.996	=	_____
_____	8.00	_____	x	158.680	=	_____
_____	10.00	_____	x	133.478	=	_____
_____	12.00	_____	x	108.393	=	_____
_____	14.00	_____	x	83.423	=	_____
_____	16.00	_____	x	58.568	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	33.828	=	_____
_____	20.00	_____	x	9.396	=	_____
_____	22.00	_____	x	15.496	=	_____
_____	24.00	_____	x	39.698	=	_____
_____	26.00	_____	x	63.975	=	_____
_____	28.00	_____	x	88.138	=	_____
_____	30.00	_____	x	112.185	=	_____
_____	32.00	_____	x	136.117	=	_____
_____	34.00	_____	x	159.933	=	_____
_____	36.00	_____	x	183.634	=	_____
_____	38.00	_____	x	153.162	=	_____
_____	39.00	_____	x	109.484	=	_____
_____	40.00	_____	x	85.947	=	_____
_____	40.50	_____	x	59.135	=	_____
_____	41.00	_____	x	45.306	=	_____
_____	41.25	_____	x	30.662	=	_____
_____	41.50	_____	x	31.027	=	_____
_____	41.75	_____	x	31.391	=	_____
_____	42.00	_____	x	47.773	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2904.40 = MEAN VEL_____

43.00

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PIPE ID = 43.25" # OF DATA POINTS 32

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	116.434	=	_____
_____	0.25	_____	x	32.374	=	_____
_____	0.50	_____	x	31.973	=	_____
_____	0.75	_____	x	31.572	=	_____
_____	1.00	_____	x	46.609	=	_____
_____	1.50	_____	x	60.738	=	_____
_____	2.00	_____	x	88.118	=	_____
_____	3.00	_____	x	111.881	=	_____
_____	4.00	_____	x	155.908	=	_____
_____	6.00	_____	x	185.571	=	_____
_____	8.00	_____	x	160.253	=	_____
_____	10.00	_____	x	135.049	=	_____
_____	12.00	_____	x	109.960	=	_____
_____	14.00	_____	x	84.984	=	_____
_____	16.00	_____	x	60.122	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	35.375	=	_____
_____	20.00	_____	x	10.789	=	_____
_____	22.00	_____	x	13.826	=	_____
_____	24.00	_____	x	38.183	=	_____
_____	26.00	_____	x	62.475	=	_____
_____	28.00	_____	x	86.652	=	_____
_____	30.00	_____	x	110.715	=	_____
_____	32.00	_____	x	134.664	=	_____
_____	34.00	_____	x	158.499	=	_____
_____	36.00	_____	x	182.220	=	_____
_____	38.00	_____	x	205.827	=	_____
_____	40.00	_____	x	169.741	=	_____
_____	41.00	_____	x	89.822	=	_____
_____	41.50	_____	x	46.147	=	_____
_____	41.75	_____	x	31.223	=	_____
_____	42.00	_____	x	31.587	=	_____
_____	42.25	_____	x	48.067	=	_____
_____					TOTAL	_____

TOTAL_____÷ 2938.27 = MEAN VEL_____

43.25

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	117.121	=	_____
_____	0.25	_____	x	32.571	=	_____
_____	0.50	_____	x	32.169	=	_____
_____	0.75	_____	x	31.768	=	_____
_____	1.00	_____	x	46.904	=	_____
_____	1.50	_____	x	61.132	=	_____
_____	2.00	_____	x	88.709	=	_____
_____	3.00	_____	x	112.668	=	_____
_____	4.00	_____	x	157.089	=	_____
_____	6.00	_____	x	187.146	=	_____
_____	8.00	_____	x	161.827	=	_____
_____	10.00	_____	x	136.620	=	_____
_____	12.00	_____	x	111.527	=	_____
_____	14.00	_____	x	86.546	=	_____
_____	16.00	_____	x	61.677	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	36.922	=	_____
_____	20.00	_____	x	12.279	=	_____
_____	22.00	_____	x	12.251	=	_____
_____	24.00	_____	x	36.668	=	_____
_____	26.00	_____	x	60.972	=	_____
_____	28.00	_____	x	85.164	=	_____
_____	30.00	_____	x	109.243	=	_____
_____	32.00	_____	x	133.209	=	_____
_____	34.00	_____	x	157.063	=	_____
_____	36.00	_____	x	180.803	=	_____
_____	38.00	_____	x	204.431	=	_____
_____	40.00	_____	x	168.710	=	_____
_____	41.00	_____	x	89.311	=	_____
_____	41.50	_____	x	45.892	=	_____
_____	41.75	_____	x	31.054	=	_____
_____	42.00	_____	x	31.419	=	_____
_____	42.25	_____	x	31.783	=	_____
_____	42.50	_____	x	48.362	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 2972.34 = MEAN VEL_____

43.50

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PIPE ID = 43.75" # OF DATA POINTS 33

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	117.809	=	_____
_____	0.25	_____	x	32.767	=	_____
_____	0.50	_____	x	32.366	=	_____
_____	0.75	_____	x	31.965	=	_____
_____	1.00	_____	x	47.199	=	_____
_____	1.50	_____	x	61.525	=	_____
_____	2.00	_____	x	89.299	=	_____
_____	3.00	_____	x	113.456	=	_____
_____	4.00	_____	x	158.270	=	_____
_____	6.00	_____	x	188.721	=	_____
_____	8.00	_____	x	163.401	=	_____
_____	10.00	_____	x	138.191	=	_____
_____	12.00	_____	x	113.094	=	_____
_____	14.00	_____	x	88.107	=	_____
_____	16.00	_____	x	63.233	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	38.469	=	_____
_____	20.00	_____	x	13.866	=	_____
_____	22.00	_____	x	10.771	=	_____
_____	24.00	_____	x	35.151	=	_____
_____	26.00	_____	x	59.469	=	_____
_____	28.00	_____	x	83.675	=	_____
_____	30.00	_____	x	107.769	=	_____
_____	32.00	_____	x	131.752	=	_____
_____	34.00	_____	x	155.623	=	_____
_____	36.00	_____	x	179.383	=	_____
_____	38.00	_____	x	203.032	=	_____
_____	40.00	_____	x	167.676	=	_____
_____	41.00	_____	x	88.799	=	_____
_____	41.50	_____	x	61.037	=	_____
_____	42.00	_____	x	46.734	=	_____
_____	42.25	_____	x	31.614	=	_____
_____	42.50	_____	x	31.979	=	_____
_____	42.75	_____	x	48.656	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 3006.60 = MEAN VEL_____

43.75

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PIPE ID = 44.00" # OF DATA POINTS 34

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	118.496	=	_____
_____	0.25	_____	x	32.964	=	_____
_____	0.50	_____	x	32.562	=	_____
_____	0.75	_____	x	32.161	=	_____
_____	1.00	_____	x	47.494	=	_____
_____	1.50	_____	x	61.918	=	_____
_____	2.00	_____	x	89.889	=	_____
_____	3.00	_____	x	114.243	=	_____
_____	4.00	_____	x	159.451	=	_____
_____	6.00	_____	x	190.296	=	_____
_____	8.00	_____	x	164.974	=	_____
_____	10.00	_____	x	139.762	=	_____
_____	12.00	_____	x	114.661	=	_____
_____	14.00	_____	x	89.670	=	_____
_____	16.00	_____	x	64.789	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	40.018	=	_____
_____	20.00	_____	x	15.549	=	_____
_____	22.00	_____	x	9.385	=	_____
_____	24.00	_____	x	33.634	=	_____
_____	26.00	_____	x	57.964	=	_____
_____	28.00	_____	x	82.184	=	_____
_____	30.00	_____	x	106.293	=	_____
_____	32.00	_____	x	130.293	=	_____
_____	34.00	_____	x	154.182	=	_____
_____	36.00	_____	x	177.961	=	_____
_____	38.00	_____	x	201.629	=	_____
_____	40.00	_____	x	166.639	=	_____
_____	41.00	_____	x	88.285	=	_____
_____	41.50	_____	x	60.696	=	_____
_____	42.00	_____	x	46.479	=	_____
_____	42.25	_____	x	31.445	=	_____
_____	42.50	_____	x	31.810	=	_____
_____	42.75	_____	x	32.175	=	_____
_____	43.00	_____	x	48.950	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 3041.06 = MEAN VEL_____

44.00

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PIPE ID = 44.25" # OF DATA POINTS 33

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	119.184	=	_____
_____	0.25	_____	x	33.160	=	_____
_____	0.50	_____	x	32.759	=	_____
_____	0.75	_____	x	32.358	=	_____
_____	1.00	_____	x	47.788	=	_____
_____	1.50	_____	x	62.312	=	_____
_____	2.00	_____	x	90.479	=	_____
_____	3.00	_____	x	115.030	=	_____
_____	4.00	_____	x	160.633	=	_____
_____	6.00	_____	x	191.871	=	_____
_____	8.00	_____	x	166.548	=	_____
_____	10.00	_____	x	141.334	=	_____
_____	12.00	_____	x	116.228	=	_____
_____	14.00	_____	x	91.232	=	_____
_____	16.00	_____	x	66.345	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	18.00	_____	x	41.566	=	_____
_____	20.00	_____	x	17.329	=	_____
_____	22.00	_____	x	8.094	=	_____
_____	24.00	_____	x	32.115	=	_____
_____	26.00	_____	x	56.457	=	_____
_____	28.00	_____	x	80.691	=	_____
_____	30.00	_____	x	104.815	=	_____
_____	32.00	_____	x	128.831	=	_____
_____	34.00	_____	x	152.738	=	_____
_____	36.00	_____	x	176.535	=	_____
_____	38.00	_____	x	200.224	=	_____
_____	40.00	_____	x	165.600	=	_____
_____	41.00	_____	x	117.776	=	_____
_____	42.00	_____	x	92.166	=	_____
_____	42.50	_____	x	47.320	=	_____
_____	42.75	_____	x	32.006	=	_____
_____	43.00	_____	x	32.371	=	_____
_____	43.25	_____	x	49.244	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 3075.72 = MEAN VEL_____

44.25

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 119.871 =	_____
_____	0.25	_____	x 33.357 =	_____
_____	0.50	_____	x 32.956 =	_____
_____	0.75	_____	x 32.554 =	_____
_____	1.00	_____	x 48.083 =	_____
_____	1.50	_____	x 62.705 =	_____
_____	2.00	_____	x 91.069 =	_____
_____	3.00	_____	x 115.818 =	_____
_____	4.00	_____	x 161.814 =	_____
_____	6.00	_____	x 193.446 =	_____
_____	8.00	_____	x 168.122 =	_____
_____	10.00	_____	x 142.905 =	_____
_____	12.00	_____	x 117.796 =	_____
_____	14.00	_____	x 92.795 =	_____
_____	16.00	_____	x 67.901 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	18.00	_____	x 43.116 =	_____
_____	20.00	_____	x 19.206 =	_____
_____	22.00	_____	x 6.899 =	_____
_____	24.00	_____	x 30.595 =	_____
_____	26.00	_____	x 54.950 =	_____
_____	28.00	_____	x 79.197 =	_____
_____	30.00	_____	x 103.336 =	_____
_____	32.00	_____	x 127.367 =	_____
_____	34.00	_____	x 151.291 =	_____
_____	36.00	_____	x 175.107 =	_____
_____	38.00	_____	x 198.815 =	_____
_____	40.00	_____	x 164.557 =	_____
_____	41.00	_____	x 117.088 =	_____
_____	42.00	_____	x 91.653 =	_____
_____	42.50	_____	x 47.065 =	_____
_____	42.75	_____	x 31.836 =	_____
_____	43.00	_____	x 32.202 =	_____
_____	43.25	_____	x 32.567 =	_____
_____	43.50	_____	x 49.539 =	_____
_____			TOTAL	_____

TOTAL_____ ÷ 3110.57 = MEAN VEL_____

44.50

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PIPE ID = 44.75" # OF DATA POINTS 34

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	120.559	=	_____
_____	0.25	_____	x	33.553	=	_____
_____	0.50	_____	x	33.152	=	_____
_____	0.75	_____	x	32.751	=	_____
_____	1.00	_____	x	48.378	=	_____
_____	1.50	_____	x	63.098	=	_____
_____	2.00	_____	x	91.660	=	_____
_____	3.00	_____	x	116.605	=	_____
_____	4.00	_____	x	162.995	=	_____
_____	6.00	_____	x	195.021	=	_____
_____	8.00	_____	x	169.696	=	_____
_____	10.00	_____	x	144.477	=	_____
_____	12.00	_____	x	119.364	=	_____
_____	14.00	_____	x	94.358	=	_____
_____	16.00	_____	x	69.458	=	_____
_____	18.00	_____	x	44.666	=	_____
_____	20.00	_____	x	21.180	=	_____
_____	22.00	_____	x	5.799	=	_____
_____	24.00	_____	x	29.074	=	_____
_____	26.00	_____	x	53.441	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	77.701	=	_____
_____	30.00	_____	x	101.854	=	_____
_____	32.00	_____	x	125.901	=	_____
_____	34.00	_____	x	149.842	=	_____
_____	36.00	_____	x	173.676	=	_____
_____	38.00	_____	x	197.403	=	_____
_____	40.00	_____	x	163.513	=	_____
_____	41.00	_____	x	116.397	=	_____
_____	42.00	_____	x	91.139	=	_____
_____	42.50	_____	x	62.600	=	_____
_____	43.00	_____	x	47.907	=	_____
_____	43.25	_____	x	32.398	=	_____
_____	43.50	_____	x	32.763	=	_____
_____	43.75	_____	x	49.833	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 3145.62 = MEAN VEL_____

44.75

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PIPE ID = 45.00" # OF DATA POINTS 35

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	121.246	=	_____
_____	0.25	_____	x	33.750	=	_____
_____	0.50	_____	x	33.349	=	_____
_____	0.75	_____	x	32.948	=	_____
_____	1.00	_____	x	48.673	=	_____
_____	1.50	_____	x	63.492	=	_____
_____	2.00	_____	x	92.250	=	_____
_____	3.00	_____	x	117.392	=	_____
_____	4.00	_____	x	164.176	=	_____
_____	6.00	_____	x	196.596	=	_____
_____	8.00	_____	x	171.269	=	_____
_____	10.00	_____	x	146.048	=	_____
_____	12.00	_____	x	120.932	=	_____
_____	14.00	_____	x	95.921	=	_____
_____	16.00	_____	x	71.016	=	_____
_____	18.00	_____	x	46.216	=	_____
_____	20.00	_____	x	23.251	=	_____
_____	22.00	_____	x	4.794	=	_____
_____	24.00	_____	x	27.552	=	_____
_____	26.00	_____	x	51.930	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	76.203	=	_____
_____	30.00	_____	x	100.371	=	_____
_____	32.00	_____	x	124.433	=	_____
_____	34.00	_____	x	148.390	=	_____
_____	36.00	_____	x	172.242	=	_____
_____	38.00	_____	x	195.988	=	_____
_____	40.00	_____	x	162.465	=	_____
_____	41.00	_____	x	115.705	=	_____
_____	42.00	_____	x	90.624	=	_____
_____	42.50	_____	x	62.258	=	_____
_____	43.00	_____	x	47.652	=	_____
_____	43.25	_____	x	32.228	=	_____
_____	43.50	_____	x	32.593	=	_____
_____	43.75	_____	x	32.959	=	_____
_____	44.00	_____	x	50.127	=	_____
					TOTAL	_____

TOTAL_____ ÷ 3180.86 = MEAN VEL_____

45.00

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	121.934	=	_____
_____	0.25	_____	x	33.946	=	_____
_____	0.50	_____	x	33.545	=	_____
_____	0.75	_____	x	33.144	=	_____
_____	1.00	_____	x	48.968	=	_____
_____	1.50	_____	x	63.885	=	_____
_____	2.00	_____	x	92.840	=	_____
_____	3.00	_____	x	118.179	=	_____
_____	4.00	_____	x	165.357	=	_____
_____	6.00	_____	x	198.171	=	_____
_____	8.00	_____	x	172.843	=	_____
_____	10.00	_____	x	147.620	=	_____
_____	12.00	_____	x	122.500	=	_____
_____	14.00	_____	x	97.485	=	_____
_____	16.00	_____	x	72.574	=	_____
_____	18.00	_____	x	47.767	=	_____
_____	20.00	_____	x	25.419	=	_____
_____	22.00	_____	x	3.884	=	_____
_____	24.00	_____	x	26.029	=	_____
_____	26.00	_____	x	50.419	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	74.705	=	_____
_____	30.00	_____	x	98.886	=	_____
_____	32.00	_____	x	122.964	=	_____
_____	34.00	_____	x	146.937	=	_____
_____	36.00	_____	x	170.806	=	_____
_____	38.00	_____	x	194.571	=	_____
_____	40.00	_____	x	218.231	=	_____
_____	42.00	_____	x	179.088	=	_____
_____	43.00	_____	x	94.510	=	_____
_____	43.50	_____	x	48.494	=	_____
_____	43.75	_____	x	32.789	=	_____
_____	44.00	_____	x	33.155	=	_____
_____	44.25	_____	x	50.421	=	_____
_____					TOTAL	_____

TOTAL_____÷ 3216.30 = MEAN VEL_____

45.25

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PIPE ID = 45.50" # OF DATA POINTS 34

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	122.621	=	_____
_____	0.25	_____	x	34.143	=	_____
_____	0.50	_____	x	33.742	=	_____
_____	0.75	_____	x	33.341	=	_____
_____	1.00	_____	x	49.263	=	_____
_____	1.50	_____	x	64.278	=	_____
_____	2.00	_____	x	93.430	=	_____
_____	3.00	_____	x	118.967	=	_____
_____	4.00	_____	x	166.538	=	_____
_____	6.00	_____	x	199.746	=	_____
_____	8.00	_____	x	174.417	=	_____
_____	10.00	_____	x	149.191	=	_____
_____	12.00	_____	x	124.068	=	_____
_____	14.00	_____	x	99.049	=	_____
_____	16.00	_____	x	74.132	=	_____
_____	18.00	_____	x	49.318	=	_____
_____	20.00	_____	x	24.608	=	_____
_____	22.00	_____	x	6.139	=	_____
_____	24.00	_____	x	24.504	=	_____
_____	26.00	_____	x	48.906	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	73.204	=	_____
_____	30.00	_____	x	97.400	=	_____
_____	32.00	_____	x	121.492	=	_____
_____	34.00	_____	x	145.481	=	_____
_____	36.00	_____	x	169.367	=	_____
_____	38.00	_____	x	193.150	=	_____
_____	40.00	_____	x	216.830	=	_____
_____	42.00	_____	x	178.051	=	_____
_____	43.00	_____	x	93.996	=	_____
_____	43.50	_____	x	48.238	=	_____
_____	43.75	_____	x	32.619	=	_____
_____	44.00	_____	x	32.985	=	_____
_____	44.25	_____	x	33.351	=	_____
_____	44.50	_____	x	50.715	=	_____
					TOTAL	_____

TOTAL_____ ÷ 3251.94 = MEAN VEL_____

45.50

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PIPE ID = 45.75" # OF DATA POINTS 34

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 123.309 =	_____
_____	0.25	_____	x 34.339 =	_____
_____	0.50	_____	x 33.938 =	_____
_____	0.75	_____	x 33.537 =	_____
_____	1.00	_____	x 49.558 =	_____
_____	1.50	_____	x 64.672 =	_____
_____	2.00	_____	x 94.020 =	_____
_____	3.00	_____	x 119.754 =	_____
_____	4.00	_____	x 167.719 =	_____
_____	6.00	_____	x 201.321 =	_____
_____	8.00	_____	x 175.991 =	_____
_____	10.00	_____	x 150.763 =	_____
_____	12.00	_____	x 125.637 =	_____
_____	14.00	_____	x 100.613 =	_____
_____	16.00	_____	x 75.690 =	_____
_____	18.00	_____	x 50.870 =	_____
_____	20.00	_____	x 26.152 =	_____
_____	22.00	_____	x 3.886 =	_____
_____	24.00	_____	x 25.325 =	_____
_____	26.00	_____	x 47.392 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 71.703 =	_____
_____	30.00	_____	x 95.911 =	_____
_____	32.00	_____	x 120.018 =	_____
_____	34.00	_____	x 144.023 =	_____
_____	36.00	_____	x 167.926 =	_____
_____	38.00	_____	x 191.727 =	_____
_____	40.00	_____	x 215.425 =	_____
_____	42.00	_____	x 177.012 =	_____
_____	43.00	_____	x 93.480 =	_____
_____	43.50	_____	x 64.163 =	_____
_____	44.00	_____	x 49.081 =	_____
_____	44.25	_____	x 33.181 =	_____
_____	44.50	_____	x 33.547 =	_____
_____	44.75	_____	x 51.010 =	_____
			TOTAL	_____

TOTAL_____ ÷ 3287.77 = MEAN VEL_____

45.75

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PIPE ID = 46.00" # OF DATA POINTS 35

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	123.996	=	_____
_____	0.25	_____	x	34.536	=	_____
_____	0.50	_____	x	34.135	=	_____
_____	0.75	_____	x	33.734	=	_____
_____	1.00	_____	x	49.853	=	_____
_____	1.50	_____	x	65.065	=	_____
_____	2.00	_____	x	94.610	=	_____
_____	3.00	_____	x	120.541	=	_____
_____	4.00	_____	x	168.900	=	_____
_____	6.00	_____	x	202.896	=	_____
_____	8.00	_____	x	177.565	=	_____
_____	10.00	_____	x	152.335	=	_____
_____	12.00	_____	x	127.205	=	_____
_____	14.00	_____	x	102.177	=	_____
_____	16.00	_____	x	77.249	=	_____
_____	18.00	_____	x	52.422	=	_____
_____	20.00	_____	x	27.696	=	_____
_____	22.00	_____	x	4.799	=	_____
_____	24.00	_____	x	23.177	=	_____
_____	26.00	_____	x	45.877	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	70.200	=	_____
_____	30.00	_____	x	94.421	=	_____
_____	32.00	_____	x	118.542	=	_____
_____	34.00	_____	x	142.563	=	_____
_____	36.00	_____	x	166.482	=	_____
_____	38.00	_____	x	190.300	=	_____
_____	40.00	_____	x	214.018	=	_____
_____	42.00	_____	x	175.970	=	_____
_____	43.00	_____	x	92.964	=	_____
_____	43.50	_____	x	63.820	=	_____
_____	44.00	_____	x	48.825	=	_____
_____	44.25	_____	x	33.010	=	_____
_____	44.50	_____	x	33.377	=	_____
_____	44.75	_____	x	33.743	=	_____
_____	45.00	_____	x	51.304	=	_____
					TOTAL	_____

TOTAL_____ ÷ 3323.81 = MEAN VEL_____

46.00

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____ x	124.684 =	_____
_____	0.25	_____ x	34.732 =	_____
_____	0.50	_____ x	34.331 =	_____
_____	0.75	_____ x	33.930 =	_____
_____	1.00	_____ x	50.148 =	_____
_____	1.50	_____ x	65.458 =	_____
_____	2.00	_____ x	95.200 =	_____
_____	3.00	_____ x	121.328 =	_____
_____	4.00	_____ x	170.081 =	_____
_____	6.00	_____ x	204.471 =	_____
_____	8.00	_____ x	179.139 =	_____
_____	10.00	_____ x	153.907 =	_____
_____	12.00	_____ x	128.774 =	_____
_____	14.00	_____ x	103.741 =	_____
_____	16.00	_____ x	78.808 =	_____
_____	18.00	_____ x	53.975 =	_____
_____	20.00	_____ x	29.242 =	_____
_____	22.00	_____ x	5.808 =	_____
_____	24.00	_____ x	21.124 =	_____
_____	26.00	_____ x	44.361 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____ x	68.695 =	_____
_____	30.00	_____ x	92.930 =	_____
_____	32.00	_____ x	117.065 =	_____
_____	34.00	_____ x	141.100 =	_____
_____	36.00	_____ x	165.036 =	_____
_____	38.00	_____ x	188.872 =	_____
_____	40.00	_____ x	212.608 =	_____
_____	42.00	_____ x	174.926 =	_____
_____	43.00	_____ x	124.012 =	_____
_____	44.00	_____ x	96.855 =	_____
_____	44.50	_____ x	49.668 =	_____
_____	44.75	_____ x	33.573 =	_____
_____	45.00	_____ x	33.939 =	_____
_____	45.25	_____ x	51.598 =	_____
			TOTAL	_____

TOTAL_____ ÷ 3360.03 = MEAN VEL_____

46.25

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	125.371	=	_____
_____	0.25	_____	x	34.929	=	_____
_____	0.50	_____	x	34.528	=	_____
_____	0.75	_____	x	34.127	=	_____
_____	1.00	_____	x	50.442	=	_____
_____	1.50	_____	x	65.852	=	_____
_____	2.00	_____	x	95.790	=	_____
_____	3.00	_____	x	122.115	=	_____
_____	4.00	_____	x	171.262	=	_____
_____	6.00	_____	x	206.046	=	_____
_____	8.00	_____	x	180.713	=	_____
_____	10.00	_____	x	155.479	=	_____
_____	12.00	_____	x	130.343	=	_____
_____	14.00	_____	x	105.306	=	_____
_____	16.00	_____	x	80.368	=	_____
_____	18.00	_____	x	55.528	=	_____
_____	20.00	_____	x	30.787	=	_____
_____	22.00	_____	x	6.913	=	_____
_____	24.00	_____	x	19.165	=	_____
_____	26.00	_____	x	42.843	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	67.189	=	_____
_____	30.00	_____	x	91.437	=	_____
_____	32.00	_____	x	115.586	=	_____
_____	34.00	_____	x	139.636	=	_____
_____	36.00	_____	x	163.587	=	_____
_____	38.00	_____	x	187.440	=	_____
_____	40.00	_____	x	211.194	=	_____
_____	42.00	_____	x	173.879	=	_____
_____	43.00	_____	x	123.320	=	_____
_____	44.00	_____	x	96.339	=	_____
_____	44.50	_____	x	49.412	=	_____
_____	44.75	_____	x	33.402	=	_____
_____	45.00	_____	x	33.768	=	_____
_____	45.25	_____	x	34.135	=	_____
_____	45.50	_____	x	51.892	=	_____
					TOTAL	_____

TOTAL_____ ÷ 3396.45 = MEAN VEL_____

46.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 126.059 =	_____
_____	0.25	_____	x 35.125 =	_____
_____	0.50	_____	x 34.724 =	_____
_____	0.75	_____	x 34.323 =	_____
_____	1.00	_____	x 50.737 =	_____
_____	1.50	_____	x 66.245 =	_____
_____	2.00	_____	x 96.380 =	_____
_____	3.00	_____	x 122.902 =	_____
_____	4.00	_____	x 172.443 =	_____
_____	6.00	_____	x 207.621 =	_____
_____	8.00	_____	x 182.287 =	_____
_____	10.00	_____	x 157.051 =	_____
_____	12.00	_____	x 131.912 =	_____
_____	14.00	_____	x 106.871 =	_____
_____	16.00	_____	x 81.928 =	_____
_____	18.00	_____	x 57.082 =	_____
_____	20.00	_____	x 32.334 =	_____
_____	22.00	_____	x 8.115 =	_____
_____	24.00	_____	x 17.301 =	_____
_____	26.00	_____	x 41.325 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 65.682 =	_____
_____	30.00	_____	x 89.942 =	_____
_____	32.00	_____	x 114.105 =	_____
_____	34.00	_____	x 138.170 =	_____
_____	36.00	_____	x 162.137 =	_____
_____	38.00	_____	x 186.006 =	_____
_____	40.00	_____	x 209.778 =	_____
_____	42.00	_____	x 172.830 =	_____
_____	43.00	_____	x 122.626 =	_____
_____	44.00	_____	x 95.822 =	_____
_____	44.50	_____	x 65.727 =	_____
_____	45.00	_____	x 50.256 =	_____
_____	45.25	_____	x 33.964 =	_____
_____	45.50	_____	x 34.331 =	_____
_____	45.75	_____	x 52.187 =	_____
				TOTAL _____

TOTAL_____ ÷ 3433.07 = MEAN VEL_____

46.75

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	126.746	=	
	0.25		x	35.321	=	
	0.50		x	34.921	=	
	0.75		x	34.520	=	
	1.00		x	51.032	=	
	1.50		x	66.638	=	
	2.00		x	96.971	=	
	3.00		x	123.690	=	
	4.00		x	173.624	=	
	6.00		x	209.196	=	
	8.00		x	183.861	=	
	10.00		x	158.623	=	
	12.00		x	133.481	=	
	14.00		x	108.436	=	
	16.00		x	83.488	=	
	18.00		x	58.636	=	
	20.00		x	33.881	=	
	22.00		x	9.414	=	
	24.00		x	15.532	=	
	26.00		x	39.805	=	
REF (RD)	SENSOR	MEASURED		WEIGHT		WEIGHTED

DISTANCE	LOCATION	VELOCITY (FPS)		CONSTANT		VELOCITY
	28.00		x	64.174	=	
	30.00		x	88.447	=	
	32.00		x	112.622	=	
	34.00		x	136.701	=	
	36.00		x	160.684	=	
	38.00		x	184.570	=	
	40.00		x	208.359	=	
	42.00		x	171.779	=	
	43.00		x	121.931	=	
	44.00		x	95.304	=	
	44.50		x	65.383	=	
	45.00		x	49.998	=	
	45.25		x	33.793	=	
	45.50		x	34.160	=	
	45.75		x	34.527	=	
	46.00		x	52.481	=	
				TOTAL		

TOTAL_____ ÷ 3469.89 = MEAN VEL_____

47.00

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	127.434	=	_____
_____	0.25	_____	x	35.518	=	_____
_____	0.50	_____	x	35.117	=	_____
_____	0.75	_____	x	34.716	=	_____
_____	1.00	_____	x	51.327	=	_____
_____	1.50	_____	x	67.031	=	_____
_____	2.00	_____	x	97.561	=	_____
_____	3.00	_____	x	124.477	=	_____
_____	4.00	_____	x	174.805	=	_____
_____	6.00	_____	x	210.771	=	_____
_____	8.00	_____	x	185.435	=	_____
_____	10.00	_____	x	160.195	=	_____
_____	12.00	_____	x	135.051	=	_____
_____	14.00	_____	x	110.002	=	_____
_____	16.00	_____	x	85.048	=	_____
_____	18.00	_____	x	60.190	=	_____
_____	20.00	_____	x	35.428	=	_____
_____	22.00	_____	x	10.810	=	_____
_____	24.00	_____	x	13.857	=	_____
_____	26.00	_____	x	38.285	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	62.665	=	_____
_____	30.00	_____	x	86.949	=	_____
_____	32.00	_____	x	111.138	=	_____
_____	34.00	_____	x	135.231	=	_____
_____	36.00	_____	x	159.229	=	_____
_____	38.00	_____	x	183.131	=	_____
_____	40.00	_____	x	206.937	=	_____
_____	42.00	_____	x	230.648	=	_____
_____	44.00	_____	x	188.441	=	_____
_____	45.00	_____	x	99.200	=	_____
_____	45.50	_____	x	50.843	=	_____
_____	45.75	_____	x	34.356	=	_____
_____	46.00	_____	x	34.723	=	_____
_____	46.25	_____	x	52.775	=	_____
_____					TOTAL	_____

TOTAL_____÷ 3506.90 = MEAN VEL_____

47.25

4-121

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	128.121	=	_____
_____	0.25	_____	x	35.714	=	_____
_____	0.50	_____	x	35.314	=	_____
_____	0.75	_____	x	34.913	=	_____
_____	1.00	_____	x	51.622	=	_____
_____	1.50	_____	x	67.425	=	_____
_____	2.00	_____	x	98.151	=	_____
_____	3.00	_____	x	125.264	=	_____
_____	4.00	_____	x	175.986	=	_____
_____	6.00	_____	x	212.346	=	_____
_____	8.00	_____	x	187.009	=	_____
_____	10.00	_____	x	161.767	=	_____
_____	12.00	_____	x	136.620	=	_____
_____	14.00	_____	x	111.567	=	_____
_____	16.00	_____	x	86.609	=	_____
_____	18.00	_____	x	61.745	=	_____
_____	20.00	_____	x	36.976	=	_____
_____	22.00	_____	x	12.302	=	_____
_____	24.00	_____	x	12.278	=	_____
_____	26.00	_____	x	36.763	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	61.154	=	_____
_____	30.00	_____	x	85.450	=	_____
_____	32.00	_____	x	109.652	=	_____
_____	34.00	_____	x	133.759	=	_____
_____	36.00	_____	x	157.772	=	_____
_____	38.00	_____	x	181.690	=	_____
_____	40.00	_____	x	205.513	=	_____
_____	42.00	_____	x	229.242	=	_____
_____	44.00	_____	x	187.399	=	_____
_____	45.00	_____	x	98.683	=	_____
_____	45.50	_____	x	50.585	=	_____
_____	45.75	_____	x	34.185	=	_____
_____	46.00	_____	x	34.552	=	_____
_____	46.25	_____	x	34.919	=	_____
_____	46.50	_____	x	53.069	=	_____
					TOTAL	_____

TOTAL_____ ÷ 3544.11 = MEAN VEL_____

47.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 128.809 =	_____
_____	0.25	_____	x 35.911 =	_____
_____	0.50	_____	x 35.510 =	_____
_____	0.75	_____	x 35.110 =	_____
_____	1.00	_____	x 51.917 =	_____
_____	1.50	_____	x 67.818 =	_____
_____	2.00	_____	x 98.741 =	_____
_____	3.00	_____	x 126.051 =	_____
_____	4.00	_____	x 177.167 =	_____
_____	6.00	_____	x 213.921 =	_____
_____	8.00	_____	x 188.583 =	_____
_____	10.00	_____	x 163.340 =	_____
_____	12.00	_____	x 138.189 =	_____
_____	14.00	_____	x 113.133 =	_____
_____	16.00	_____	x 88.170 =	_____
_____	18.00	_____	x 63.301 =	_____
_____	20.00	_____	x 38.525 =	_____
_____	22.00	_____	x 13.891 =	_____
_____	24.00	_____	x 10.794 =	_____
_____	26.00	_____	x 35.241 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 59.642 =	_____
_____	30.00	_____	x 83.950 =	_____
_____	32.00	_____	x 108.165 =	_____
_____	34.00	_____	x 132.285 =	_____
_____	36.00	_____	x 156.312 =	_____
_____	38.00	_____	x 180.246 =	_____
_____	40.00	_____	x 204.086 =	_____
_____	42.00	_____	x 227.832 =	_____
_____	44.00	_____	x 186.355 =	_____
_____	45.00	_____	x 98.164 =	_____
_____	45.50	_____	x 67.291 =	_____
_____	46.00	_____	x 51.430 =	_____
_____	46.25	_____	x 34.748 =	_____
_____	46.50	_____	x 35.115 =	_____
_____	46.75	_____	x 53.364 =	_____
			TOTAL	_____

TOTAL_____ ÷ 3581.51 = MEAN VEL_____

47.75

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PIPE ID = 48.00" # OF DATA POINTS 36

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 129.496 =	_____
_____	0.25	_____	x 36.107 =	_____
_____	0.50	_____	x 35.707 =	_____
_____	0.75	_____	x 35.306 =	_____
_____	1.00	_____	x 52.211 =	_____
_____	1.50	_____	x 68.211 =	_____
_____	2.00	_____	x 99.331 =	_____
_____	3.00	_____	x 126.838 =	_____
_____	4.00	_____	x 178.348 =	_____
_____	6.00	_____	x 215.495 =	_____
_____	8.00	_____	x 190.157 =	_____
_____	10.00	_____	x 164.912 =	_____
_____	12.00	_____	x 139.759 =	_____
_____	14.00	_____	x 114.699 =	_____
_____	16.00	_____	x 89.731 =	_____
_____	18.00	_____	x 64.856 =	_____
_____	20.00	_____	x 40.074 =	_____
_____	22.00	_____	x 15.576 =	_____
_____	24.00	_____	x 9.405 =	_____
_____	26.00	_____	x 33.718 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 58.130 =	_____
_____	30.00	_____	x 82.449 =	_____
_____	32.00	_____	x 106.676 =	_____
_____	34.00	_____	x 130.810 =	_____
_____	36.00	_____	x 154.851 =	_____
_____	38.00	_____	x 178.800 =	_____
_____	40.00	_____	x 202.656 =	_____
_____	42.00	_____	x 226.420 =	_____
_____	44.00	_____	x 185.308 =	_____
_____	45.00	_____	x 97.645 =	_____
_____	45.50	_____	x 66.946 =	_____
_____	46.00	_____	x 51.172 =	_____
_____	46.25	_____	x 34.576 =	_____
_____	46.50	_____	x 34.944 =	_____
_____	46.75	_____	x 35.311 =	_____
_____	47.00	_____	x 53.658 =	_____
			TOTAL	_____

TOTAL_____ ÷ 3619.11 = MEAN VEL_____

48.00

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PIPE ID = 48.25" # OF DATA POINTS 35

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 130.183 =	_____
_____	0.25	_____	x 36.304 =	_____
_____	0.50	_____	x 35.903 =	_____
_____	0.75	_____	x 35.503 =	_____
_____	1.00	_____	x 52.506 =	_____
_____	1.50	_____	x 68.604 =	_____
_____	2.00	_____	x 99.921 =	_____
_____	3.00	_____	x 127.625 =	_____
_____	4.00	_____	x 179.529 =	_____
_____	6.00	_____	x 217.070 =	_____
_____	8.00	_____	x 191.731 =	_____
_____	10.00	_____	x 166.484 =	_____
_____	12.00	_____	x 141.329 =	_____
_____	14.00	_____	x 116.265 =	_____
_____	16.00	_____	x 91.293 =	_____
_____	18.00	_____	x 66.412 =	_____
_____	20.00	_____	x 41.623 =	_____
_____	22.00	_____	x 17.359 =	_____
_____	24.00	_____	x 8.111 =	_____
_____	26.00	_____	x 32.193 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 56.616 =	_____
_____	30.00	_____	x 80.946 =	_____
_____	32.00	_____	x 105.185 =	_____
_____	34.00	_____	x 129.332 =	_____
_____	36.00	_____	x 153.388 =	_____
_____	38.00	_____	x 177.352 =	_____
_____	40.00	_____	x 201.224 =	_____
_____	42.00	_____	x 225.005 =	_____
_____	44.00	_____	x 184.260 =	_____
_____	45.00	_____	x 130.252 =	_____
_____	46.00	_____	x 101.545 =	_____
_____	46.50	_____	x 52.017 =	_____
_____	46.75	_____	x 35.140 =	_____
_____	47.00	_____	x 35.507 =	_____
_____	47.25	_____	x 53.952 =	_____
			TOTAL	_____

TOTAL_____ ÷ 3656.91 = MEAN VEL_____

48.25

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PIPE ID = 48.50" # OF DATA POINTS 36

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	130.871	=	_____
_____	0.25	_____	x	36.500	=	_____
_____	0.50	_____	x	36.100	=	_____
_____	0.75	_____	x	35.699	=	_____
_____	1.00	_____	x	52.801	=	_____
_____	1.50	_____	x	68.998	=	_____
_____	2.00	_____	x	100.511	=	_____
_____	3.00	_____	x	128.412	=	_____
_____	4.00	_____	x	180.710	=	_____
_____	6.00	_____	x	218.645	=	_____
_____	8.00	_____	x	193.305	=	_____
_____	10.00	_____	x	168.057	=	_____
_____	12.00	_____	x	142.899	=	_____
_____	14.00	_____	x	117.831	=	_____
_____	16.00	_____	x	92.855	=	_____
_____	18.00	_____	x	67.969	=	_____
_____	20.00	_____	x	43.173	=	_____
_____	22.00	_____	x	19.238	=	_____
_____	24.00	_____	x	6.913	=	_____
_____	26.00	_____	x	30.668	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	55.100	=	_____
_____	30.00	_____	x	79.442	=	_____
_____	32.00	_____	x	103.693	=	_____
_____	34.00	_____	x	127.853	=	_____
_____	36.00	_____	x	151.923	=	_____
_____	38.00	_____	x	175.902	=	_____
_____	40.00	_____	x	199.790	=	_____
_____	42.00	_____	x	223.587	=	_____
_____	44.00	_____	x	183.209	=	_____
_____	45.00	_____	x	129.557	=	_____
_____	46.00	_____	x	101.027	=	_____
_____	46.50	_____	x	51.759	=	_____
_____	46.75	_____	x	34.968	=	_____
_____	47.00	_____	x	35.335	=	_____
_____	47.25	_____	x	35.703	=	_____
_____	47.50	_____	x	54.246	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 3694.91 = MEAN VEL_____

48.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	131.558	=	_____
_____	0.25	_____	x	36.697	=	_____
_____	0.50	_____	x	36.296	=	_____
_____	0.75	_____	x	35.896	=	_____
_____	1.00	_____	x	53.096	=	_____
_____	1.50	_____	x	69.391	=	_____
_____	2.00	_____	x	101.101	=	_____
_____	3.00	_____	x	129.199	=	_____
_____	4.00	_____	x	181.890	=	_____
_____	6.00	_____	x	220.220	=	_____
_____	8.00	_____	x	194.880	=	_____
_____	10.00	_____	x	169.629	=	_____
_____	12.00	_____	x	144.469	=	_____
_____	14.00	_____	x	119.398	=	_____
_____	16.00	_____	x	94.417	=	_____
_____	18.00	_____	x	69.525	=	_____
_____	20.00	_____	x	44.724	=	_____
_____	22.00	_____	x	21.215	=	_____
_____	24.00	_____	x	5.810	=	_____
_____	26.00	_____	x	29.142	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	53.584	=	_____
_____	30.00	_____	x	77.937	=	_____
_____	32.00	_____	x	102.200	=	_____
_____	34.00	_____	x	126.373	=	_____
_____	36.00	_____	x	150.456	=	_____
_____	38.00	_____	x	174.449	=	_____
_____	40.00	_____	x	198.353	=	_____
_____	42.00	_____	x	222.167	=	_____
_____	44.00	_____	x	182.155	=	_____
_____	45.00	_____	x	128.860	=	_____
_____	46.00	_____	x	100.507	=	_____
_____	46.50	_____	x	68.855	=	_____
_____	47.00	_____	x	52.604	=	_____
_____	47.25	_____	x	35.531	=	_____
_____	47.50	_____	x	35.899	=	_____
_____	47.75	_____	x	54.541	=	_____
					TOTAL	_____

TOTAL_____ ÷ 3733.10 = MEAN VEL_____

48.75

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PIPE ID = 49.00" # OF DATA POINTS 37

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	132.246	=	_____
_____	0.25	_____	x	36.893	=	_____
_____	0.50	_____	x	36.493	=	_____
_____	0.75	_____	x	36.092	=	_____
_____	1.00	_____	x	53.391	=	_____
_____	1.50	_____	x	69.784	=	_____
_____	2.00	_____	x	101.691	=	_____
_____	3.00	_____	x	129.986	=	_____
_____	4.00	_____	x	183.071	=	_____
_____	6.00	_____	x	221.795	=	_____
_____	8.00	_____	x	196.454	=	_____
_____	10.00	_____	x	171.202	=	_____
_____	12.00	_____	x	146.039	=	_____
_____	14.00	_____	x	120.964	=	_____
_____	16.00	_____	x	95.979	=	_____
_____	18.00	_____	x	71.082	=	_____
_____	20.00	_____	x	46.275	=	_____
_____	22.00	_____	x	23.288	=	_____
_____	24.00	_____	x	4.803	=	_____
_____	26.00	_____	x	27.615	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	52.067	=	_____
_____	30.00	_____	x	76.430	=	_____
_____	32.00	_____	x	100.705	=	_____
_____	34.00	_____	x	124.890	=	_____
_____	36.00	_____	x	148.987	=	_____
_____	38.00	_____	x	172.995	=	_____
_____	40.00	_____	x	196.914	=	_____
_____	42.00	_____	x	220.744	=	_____
_____	44.00	_____	x	181.100	=	_____
_____	45.00	_____	x	128.161	=	_____
_____	46.00	_____	x	99.987	=	_____
_____	46.50	_____	x	68.509	=	_____
_____	47.00	_____	x	52.346	=	_____
_____	47.25	_____	x	35.359	=	_____
_____	47.50	_____	x	35.727	=	_____
_____	47.75	_____	x	36.095	=	_____
_____	48.00	_____		x		54.835

= _____ TOTAL _____

_____ TOTAL

TOTAL_____ ÷ 3771.48 = MEAN VEL_____

49.00

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 132.933 =	_____
_____	0.25	_____	x 37.090 =	_____
_____	0.50	_____	x 36.689 =	_____
_____	0.75	_____	x 36.289 =	_____
_____	1.00	_____	x 53.686 =	_____
_____	1.50	_____	x 70.177 =	_____
_____	2.00	_____	x 102.281 =	_____
_____	3.00	_____	x 130.773 =	_____
_____	4.00	_____	x 184.252 =	_____
_____	6.00	_____	x 223.369 =	_____
_____	8.00	_____	x 198.028 =	_____
_____	10.00	_____	x 172.774 =	_____
_____	12.00	_____	x 147.609 =	_____
_____	14.00	_____	x 122.531 =	_____
_____	16.00	_____	x 97.542 =	_____
_____	18.00	_____	x 72.640 =	_____
_____	20.00	_____	x 47.826 =	_____
_____	22.00	_____	x 25.459 =	_____
_____	24.00	_____	x 3.891 =	_____
_____	26.00	_____	x 26.087 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 50.549 =	_____
_____	30.00	_____	x 74.923 =	_____
_____	32.00	_____	x 99.209 =	_____
_____	34.00	_____	x 123.406 =	_____
_____	36.00	_____	x 147.516 =	_____
_____	38.00	_____	x 171.538 =	_____
_____	40.00	_____	x 195.472 =	_____
_____	42.00	_____	x 219.318 =	_____
_____	44.00	_____	x 243.076 =	_____
_____	46.00	_____	x 197.799 =	_____
_____	47.00	_____	x 103.891 =	_____
_____	47.50	_____	x 53.192 =	_____
_____	47.75	_____	x 35.923 =	_____
_____	48.00	_____	x 36.291 =	_____
_____	48.25	_____	x 55.129 =	_____
			TOTAL	_____

TOTAL_____ ÷ 3810.06 = MEAN VEL_____

49.25

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	133.621	=	_____
_____	0.25	_____	x	37.286	=	_____
_____	0.50	_____	x	36.885	=	_____
_____	0.75	_____	x	36.485	=	_____
_____	1.00	_____	x	53.980	=	_____
_____	1.50	_____	x	70.571	=	_____
_____	2.00	_____	x	102.871	=	_____
_____	3.00	_____	x	131.560	=	_____
_____	4.00	_____	x	185.433	=	_____
_____	6.00	_____	x	224.944	=	_____
_____	8.00	_____	x	199.602	=	_____
_____	10.00	_____	x	174.347	=	_____
_____	12.00	_____	x	149.179	=	_____
_____	14.00	_____	x	124.098	=	_____
_____	16.00	_____	x	99.104	=	_____
_____	18.00	_____	x	74.198	=	_____
_____	20.00	_____	x	49.378	=	_____
_____	22.00	_____	x	24.645	=	_____
_____	24.00	_____	x	6.150	=	_____
_____	26.00	_____	x	24.558	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	49.030	=	_____
_____	30.00	_____	x	73.414	=	_____
_____	32.00	_____	x	97.711	=	_____
_____	34.00	_____	x	121.921	=	_____
_____	36.00	_____	x	146.044	=	_____
_____	38.00	_____	x	170.080	=	_____
_____	40.00	_____	x	194.029	=	_____
_____	42.00	_____	x	217.890	=	_____
_____	44.00	_____	x	241.665	=	_____
_____	46.00	_____	x	196.753	=	_____
_____	47.00	_____	x	103.371	=	_____
_____	47.50	_____	x	52.933	=	_____
_____	47.75	_____	x	35.751	=	_____
_____	48.00	_____	x	36.119	=	_____
_____	48.25	_____	x	36.487	=	_____
_____	48.50	_____	x	55.423	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 3848.84 = MEAN VEL_____

49.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 134.308 =	_____
_____	0.25	_____	x 37.482 =	_____
_____	0.50	_____	x 37.082 =	_____
_____	0.75	_____	x 36.682 =	_____
_____	1.00	_____	x 54.275 =	_____
_____	1.50	_____	x 70.964 =	_____
_____	2.00	_____	x 103.461 =	_____
_____	3.00	_____	x 132.347 =	_____
_____	4.00	_____	x 186.613 =	_____
_____	6.00	_____	x 226.519 =	_____
_____	8.00	_____	x 201.176 =	_____
_____	10.00	_____	x 175.920 =	_____
_____	12.00	_____	x 150.749 =	_____
_____	14.00	_____	x 125.665 =	_____
_____	16.00	_____	x 100.667 =	_____
_____	18.00	_____	x 75.756 =	_____
_____	20.00	_____	x 50.930 =	_____
_____	22.00	_____	x 26.191 =	_____
_____	24.00	_____	x 3.893 =	_____
_____	26.00	_____	x 25.380 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 47.509 =	_____
_____	30.00	_____	x 71.904 =	_____
_____	32.00	_____	x 96.212 =	_____
_____	34.00	_____	x 120.434 =	_____
_____	36.00	_____	x 144.570 =	_____
_____	38.00	_____	x 168.619 =	_____
_____	40.00	_____	x 192.583 =	_____
_____	42.00	_____	x 216.460 =	_____
_____	44.00	_____	x 240.251 =	_____
_____	46.00	_____	x 195.704 =	_____
_____	47.00	_____	x 102.851 =	_____
_____	47.50	_____	x 70.419 =	_____
_____	48.00	_____	x 53.779 =	_____
_____	48.25	_____	x 36.315 =	_____
_____	48.50	_____	x 36.683 =	_____
_____	48.75	_____	x 55.718 =	_____
			TOTAL	_____

TOTAL_____ ÷ 3887.82 = MEAN VEL_____

49.75

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PIPE ID = 50.00" # OF DATA POINTS 37

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	134.996	=	_____
_____	0.25	_____	x	37.679	=	_____
_____	0.50	_____	x	37.278	=	_____
_____	0.75	_____	x	36.878	=	_____
_____	1.00	_____	x	54.570	=	_____
_____	1.50	_____	x	71.357	=	_____
_____	2.00	_____	x	104.051	=	_____
_____	3.00	_____	x	133.134	=	_____
_____	4.00	_____	x	187.794	=	_____
_____	6.00	_____	x	228.094	=	_____
_____	8.00	_____	x	202.750	=	_____
_____	10.00	_____	x	177.492	=	_____
_____	12.00	_____	x	152.320	=	_____
_____	14.00	_____	x	127.232	=	_____
_____	16.00	_____	x	102.231	=	_____
_____	18.00	_____	x	77.314	=	_____
_____	20.00	_____	x	52.483	=	_____
_____	22.00	_____	x	27.737	=	_____
_____	24.00	_____	x	4.807	=	_____
_____	26.00	_____	x	23.226	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	45.988	=	_____
_____	30.00	_____	x	70.393	=	_____
_____	32.00	_____	x	94.712	=	_____
_____	34.00	_____	x	118.946	=	_____
_____	36.00	_____	x	143.094	=	_____
_____	38.00	_____	x	167.157	=	_____
_____	40.00	_____	x	191.135	=	_____
_____	42.00	_____	x	215.027	=	_____
_____	44.00	_____	x	238.834	=	_____
_____	46.00	_____	x	194.653	=	_____
_____	47.00	_____	x	102.329	=	_____
_____	47.50	_____	x	70.073	=	_____
_____	48.00	_____	x	53.520	=	_____
_____	48.25	_____	x	36.143	=	_____
_____	48.50	_____	x	36.511	=	_____
_____	48.75	_____	x	36.879	=	_____
_____	49.00	_____	x	56.012	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 3926.99 = MEAN VEL_____

50.00

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PIPE ID = 50.25" # OF DATA POINTS 36

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	135.683	=	_____
_____	0.25	_____	x	37.875	=	_____
_____	0.50	_____	x	37.475	=	_____
_____	0.75	_____	x	37.075	=	_____
_____	1.00	_____	x	54.865	=	_____
_____	1.50	_____	x	71.750	=	_____
_____	2.00	_____	x	104.641	=	_____
_____	3.00	_____	x	133.921	=	_____
_____	4.00	_____	x	188.975	=	_____
_____	6.00	_____	x	229.668	=	_____
_____	8.00	_____	x	204.324	=	_____
_____	10.00	_____	x	179.065	=	_____
_____	12.00	_____	x	153.890	=	_____
_____	14.00	_____	x	128.800	=	_____
_____	16.00	_____	x	103.794	=	_____
_____	18.00	_____	x	78.873	=	_____
_____	20.00	_____	x	54.036	=	_____
_____	22.00	_____	x	29.284	=	_____
_____	24.00	_____	x	5.818	=	_____
_____	26.00	_____	x	21.167	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	44.466	=	_____
_____	30.00	_____	x	68.881	=	_____
_____	32.00	_____	x	93.210	=	_____
_____	34.00	_____	x	117.456	=	_____
_____	36.00	_____	x	141.617	=	_____
_____	38.00	_____	x	165.693	=	_____
_____	40.00	_____	x	189.685	=	_____
_____	42.00	_____	x	213.592	=	_____
_____	44.00	_____	x	237.415	=	_____
_____	46.00	_____	x	193.600	=	_____
_____	47.00	_____	x	136.495	=	_____
_____	48.00	_____	x	106.237	=	_____
_____	48.50	_____	x	55.366	=	_____
_____	48.75	_____	x	36.707	=	_____
_____	49.00	_____	x	37.075	=	_____
_____	49.25	_____	x	56.306	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 3966.36 = MEAN VEL_____

50.25

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PIPE ID = 50.50" # OF DATA POINTS 37

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	136.370	=	_____
_____	0.25	_____	x	38.072	=	_____
_____	0.50	_____	x	37.671	=	_____
_____	0.75	_____	x	37.271	=	_____
_____	1.00	_____	x	55.160	=	_____
_____	1.50	_____	x	72.143	=	_____
_____	2.00	_____	x	105.231	=	_____
_____	3.00	_____	x	134.708	=	_____
_____	4.00	_____	x	190.156	=	_____
_____	6.00	_____	x	231.243	=	_____
_____	8.00	_____	x	205.899	=	_____
_____	10.00	_____	x	180.638	=	_____
_____	12.00	_____	x	155.461	=	_____
_____	14.00	_____	x	130.367	=	_____
_____	16.00	_____	x	105.358	=	_____
_____	18.00	_____	x	80.432	=	_____
_____	20.00	_____	x	55.589	=	_____
_____	22.00	_____	x	30.831	=	_____
_____	24.00	_____	x	6.925	=	_____
_____	26.00	_____	x	19.204	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	42.943	=	_____
_____	30.00	_____	x	67.367	=	_____
_____	32.00	_____	x	91.708	=	_____
_____	34.00	_____	x	115.964	=	_____
_____	36.00	_____	x	140.137	=	_____
_____	38.00	_____	x	164.227	=	_____
_____	40.00	_____	x	188.232	=	_____
_____	42.00	_____	x	212.154	=	_____
_____	44.00	_____	x	235.993	=	_____
_____	46.00	_____	x	192.545	=	_____
_____	47.00	_____	x	135.797	=	_____
_____	48.00	_____	x	105.717	=	_____
_____	48.50	_____	x	54.107	=	_____
_____	48.75	_____	x	36.534	=	_____
_____	49.00	_____	x	36.903	=	_____
_____	49.25	_____	x	37.271	=	_____
_____	49.50	_____	x	56.601	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 4005.92 = MEAN VEL_____

50.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 137.058 =	_____
_____	0.25	_____	x 38.268 =	_____
_____	0.50	_____	x 37.868 =	_____
_____	0.75	_____	x 37.468 =	_____
_____	1.00	_____	x 55.455 =	_____
_____	1.50	_____	x 72.537 =	_____
_____	2.00	_____	x 105.821 =	_____
_____	3.00	_____	x 135.495 =	_____
_____	4.00	_____	x 191.336 =	_____
_____	6.00	_____	x 232.818 =	_____
_____	8.00	_____	x 207.473 =	_____
_____	10.00	_____	x 182.211 =	_____
_____	12.00	_____	x 157.032 =	_____
_____	14.00	_____	x 131.935 =	_____
_____	16.00	_____	x 106.922 =	_____
_____	18.00	_____	x 81.991 =	_____
_____	20.00	_____	x 57.143 =	_____
_____	22.00	_____	x 32.378 =	_____
_____	24.00	_____	x 8.129 =	_____
_____	26.00	_____	x 17.335 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 41.420 =	_____
_____	30.00	_____	x 65.853 =	_____
_____	32.00	_____	x 90.204 =	_____
_____	34.00	_____	x 114.472 =	_____
_____	36.00	_____	x 138.657 =	_____
_____	38.00	_____	x 162.759 =	_____
_____	40.00	_____	x 186.778 =	_____
_____	42.00	_____	x 210.715 =	_____
_____	44.00	_____	x 234.568 =	_____
_____	46.00	_____	x 191.488 =	_____
_____	47.00	_____	x 135.097 =	_____
_____	48.00	_____	x 105.195 =	_____
_____	48.50	_____	x 71.984 =	_____
_____	49.00	_____	x 54.954 =	_____
_____	49.25	_____	x 37.099 =	_____
				TOTAL _____
_____	49.50	_____	x 37.467 =	_____
_____	49.75	_____	x 56.895 =	_____
_____				_____

TOTAL_____ ÷ 4045.68 = MEAN VEL_____

50.75

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PIPE ID = 51.00" # OF DATA POINTS 38

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	137.745	=	_____
_____	0.25	_____	x	38.465	=	_____
_____	0.50	_____	x	38.064	=	_____
_____	0.75	_____	x	37.664	=	_____
_____	1.00	_____	x	55.749	=	_____
_____	1.50	_____	x	72.930	=	_____
_____	2.00	_____	x	106.411	=	_____
_____	3.00	_____	x	136.282	=	_____
_____	4.00	_____	x	192.517	=	_____
_____	6.00	_____	x	234.392	=	_____
_____	8.00	_____	x	209.047	=	_____
_____	10.00	_____	x	183.784	=	_____
_____	12.00	_____	x	158.602	=	_____
_____	14.00	_____	x	133.503	=	_____
_____	16.00	_____	x	108.486	=	_____
_____	18.00	_____	x	83.551	=	_____
_____	20.00	_____	x	58.697	=	_____
_____	22.00	_____	x	33.926	=	_____
_____	24.00	_____	x	9.430	=	_____
_____	26.00	_____	x	15.562	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	39.895	=	_____
_____	30.00	_____	x	64.338	=	_____
_____	32.00	_____	x	88.699	=	_____
_____	34.00	_____	x	112.978	=	_____
_____	36.00	_____	x	137.174	=	_____
_____	38.00	_____	x	161.289	=	_____
_____	40.00	_____	x	185.322	=	_____
_____	42.00	_____	x	209.273	=	_____
_____	44.00	_____	x	233.142	=	_____
_____	46.00	_____	x	190.429	=	_____
_____	47.00	_____	x	134.395	=	_____
_____	48.00	_____	x	104.672	=	_____
_____	48.50	_____	x	71.637	=	_____
_____	49.00	_____	x	54.694	=	_____
_____	49.25	_____	x	36.926	=	_____
_____	49.50	_____	x	37.295	=	_____
_____	49.75	_____	x	37.663	=	_____
_____	50.00	_____	x	57.189	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 4085.64 = MEAN VEL_____

51.00

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PIPE ID = 51.25" # OF DATA POINTS 36

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 138.433 =	_____
_____	0.25	_____	x 38.661 =	_____
_____	0.50	_____	x 38.261 =	_____
_____	0.75	_____	x 37.861 =	_____
_____	1.00	_____	x 56.044 =	_____
_____	1.50	_____	x 73.323 =	_____
_____	2.00	_____	x 107.000 =	_____
_____	3.00	_____	x 137.069 =	_____
_____	4.00	_____	x 193.698 =	_____
_____	6.00	_____	x 235.967 =	_____
_____	8.00	_____	x 210.621 =	_____
_____	10.00	_____	x 185.356 =	_____
_____	12.00	_____	x 160.173 =	_____
_____	14.00	_____	x 135.071 =	_____
_____	16.00	_____	x 110.050 =	_____
_____	18.00	_____	x 85.110 =	_____
_____	20.00	_____	x 60.252 =	_____
_____	22.00	_____	x 35.475 =	_____
_____	24.00	_____	x 10.827 =	_____
_____	26.00	_____	x 13.884 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 38.369 =	_____
_____	30.00	_____	x 62.821 =	_____
_____	32.00	_____	x 87.192 =	_____
_____	34.00	_____	x 111.482 =	_____
_____	36.00	_____	x 135.691 =	_____
_____	38.00	_____	x 59.818 =	_____
_____	40.00	_____	x 183.864 =	_____
_____	42.00	_____	x 207.829 =	_____
_____	44.00	_____	x 231.712 =	_____
_____	46.00	_____	x 255.515 =	_____
_____	48.00	_____	x 207.163 =	_____
_____	49.00	_____	x 108.584 =	_____
_____	49.50	_____	x 55.541 =	_____
_____	49.75	_____	x 37.491 =	_____
_____	50.00	_____	x 37.859 =	_____
_____	50.25	_____	x 57.483 =	_____
			TOTAL	_____

TOTAL_____ ÷ 4125.79 = MEAN VEL_____

51.25

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PIPE ID = 51.50" # OF DATA POINTS 37

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	139.120	=	_____
_____	0.25	_____	x	38.858	=	_____
_____	0.50	_____	x	38.457	=	_____
_____	0.75	_____	x	38.057	=	_____
_____	1.00	_____	x	56.339	=	_____
_____	1.50	_____	x	73.716	=	_____
_____	2.00	_____	x	107.590	=	_____
_____	3.00	_____	x	137.856	=	_____
_____	4.00	_____	x	194.878	=	_____
_____	6.00	_____	x	237.542	=	_____
_____	8.00	_____	x	212.195	=	_____
_____	10.00	_____	x	186.929	=	_____
_____	12.00	_____	x	161.744	=	_____
_____	14.00	_____	x	136.639	=	_____
_____	16.00	_____	x	111.615	=	_____
_____	18.00	_____	x	86.671	=	_____
_____	20.00	_____	x	61.807	=	_____
_____	22.00	_____	x	37.024	=	_____
_____	24.00	_____	x	12.321	=	_____
_____	26.00	_____	x	12.301	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	36.843	=	_____
_____	30.00	_____	x	61.304	=	_____
_____	32.00	_____	x	85.685	=	_____
_____	34.00	_____	x	109.985	=	_____
_____	36.00	_____	x	134.205	=	_____
_____	38.00	_____	x	158.345	=	_____
_____	40.00	_____	x	182.404	=	_____
_____	42.00	_____	x	206.383	=	_____
_____	44.00	_____	x	230.281	=	_____
_____	46.00	_____	x	254.099	=	_____
_____	48.00	_____	x	206.112	=	_____
_____	49.00	_____	x	108.062	=	_____
_____	49.50	_____	x	55.281	=	_____
_____	49.75	_____	x	37.317	=	_____
_____	50.00	_____	x	37.687	=	_____
_____	50.25	_____	x	38.056	=	_____
_____	50.50	_____	x	57.778	=	_____
_____				TOTAL		_____

TOTAL_____ ÷ 4166.14 = MEAN VEL_____

51.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	139.808	=	_____
_____	0.25	_____	x	39.054	=	_____
_____	0.50	_____	x	38.654	=	_____
_____	0.75	_____	x	38.254	=	_____
_____	1.00	_____	x	56.634	=	_____
_____	1.50	_____	x	74.109	=	_____
_____	2.00	_____	x	108.180	=	_____
_____	3.00	_____	x	138.643	=	_____
_____	4.00	_____	x	196.059	=	_____
_____	6.00	_____	x	239.116	=	_____
_____	8.00	_____	x	213.769	=	_____
_____	10.00	_____	x	188.502	=	_____
_____	12.00	_____	x	163.315	=	_____
_____	14.00	_____	x	138.207	=	_____
_____	16.00	_____	x	113.179	=	_____
_____	18.00	_____	x	88.231	=	_____
_____	20.00	_____	x	63.362	=	_____
_____	22.00	_____	x	38.573	=	_____
_____	24.00	_____	x	13.912	=	_____
_____	26.00	_____	x	10.814	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	35.316	=	_____
_____	30.00	_____	x	59.786	=	_____
_____	32.00	_____	x	84.177	=	_____
_____	34.00	_____	x	108.487	=	_____
_____	36.00	_____	x	132.719	=	_____
_____	38.00	_____	x	156.870	=	_____
_____	40.00	_____	x	180.942	=	_____
_____	42.00	_____	x	204.934	=	_____
_____	44.00	_____	x	228.847	=	_____
_____	46.00	_____	x	252.680	=	_____
_____	48.00	_____	x	205.059	=	_____
_____	49.00	_____	x	107.539	=	_____
_____	49.50	_____	x	73.549	=	_____
_____	50.00	_____	x	56.129	=	_____
_____	50.25	_____	x	37.883	=	_____
_____	50.50	_____	x	38.252	=	_____
_____	50.75	_____	x	58.072	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 4206.69 = MEAN VEL_____

51.75

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PIPE ID = 52.00" # OF DATA POINTS 38

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	140.495	=	_____
_____	0.25	_____	x	39.250	=	_____
_____	0.50	_____	x	38.850	=	_____
_____	0.75	_____	x	38.450	=	_____
_____	1.00	_____	x	56.929	=	_____
_____	1.50	_____	x	74.503	=	_____
_____	2.00	_____	x	108.770	=	_____
_____	3.00	_____	x	139.430	=	_____
_____	4.00	_____	x	197.239	=	_____
_____	6.00	_____	x	240.691	=	_____
_____	8.00	_____	x	215.344	=	_____
_____	10.00	_____	x	190.075	=	_____
_____	12.00	_____	x	164.886	=	_____
_____	14.00	_____	x	139.776	=	_____
_____	16.00	_____	x	114.744	=	_____
_____	18.00	_____	x	89.792	=	_____
_____	20.00	_____	x	64.918	=	_____
_____	22.00	_____	x	40.123	=	_____
_____	24.00	_____	x	15.600	=	_____
_____	26.00	_____	x	9.422	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	33.788	=	_____
_____	30.00	_____	x	58.267	=	_____
_____	32.00	_____	x	82.667	=	_____
_____	34.00	_____	x	106.988	=	_____
_____	36.00	_____	x	131.231	=	_____
_____	38.00	_____	x	155.394	=	_____
_____	40.00	_____	x	179.479	=	_____
_____	42.00	_____	x	203.484	=	_____
_____	44.00	_____	x	227.411	=	_____
_____	46.00	_____	x	251.259	=	_____
_____	48.00	_____	x	204.004	=	_____
_____	49.00	_____	x	107.015	=	_____
_____	49.50	_____	x	73.201	=	_____
_____	50.00	_____	x	55.868	=	_____
_____	50.25	_____	x	37.709	=	_____
_____	50.50	_____	x	38.078	=	_____
_____	50.75	_____	x	38.448	=	_____
_____	51.00	_____	x	58.366	=	_____
					TOTAL	_____

TOTAL_____ ÷ 4247.43 = MEAN VEL_____

52.00

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PIPE ID = 52.25" # OF DATA POINTS 37

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	141.182	=	_____
_____	0.25	_____	x	39.447	=	_____
_____	0.50	_____	x	39.047	=	_____
_____	0.75	_____	x	38.647	=	_____
_____	1.00	_____	x	57.223	=	_____
_____	1.50	_____	x	74.896	=	_____
_____	2.00	_____	x	109.360	=	_____
_____	3.00	_____	x	140.217	=	_____
_____	4.00	_____	x	198.420	=	_____
_____	6.00	_____	x	242.265	=	_____
_____	8.00	_____	x	216.918	=	_____
_____	10.00	_____	x	191.648	=	_____
_____	12.00	_____	x	166.457	=	_____
_____	14.00	_____	x	141.344	=	_____
_____	16.00	_____	x	116.309	=	_____
_____	18.00	_____	x	91.352	=	_____
_____	20.00	_____	x	66.474	=	_____
_____	22.00	_____	x	41.673	=	_____
_____	24.00	_____	x	17.385	=	_____
_____	26.00	_____	x	8.126	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	32.259	=	_____
_____	30.00	_____	x	56.747	=	_____
_____	32.00	_____	x	81.156	=	_____
_____	34.00	_____	x	105.488	=	_____
_____	36.00	_____	x	129.741	=	_____
_____	38.00	_____	x	153.916	=	_____
_____	40.00	_____	x	178.013	=	_____
_____	42.00	_____	x	202.032	=	_____
_____	44.00	_____	x	225.973	=	_____
_____	46.00	_____	x	249.835	=	_____
_____	48.00	_____	x	202.947	=	_____
_____	49.00	_____	x	142.741	=	_____
_____	50.00	_____	x	110.931	=	_____
_____	50.50	_____	x	56.716	=	_____
_____	50.75	_____	x	38.274	=	_____
_____	51.00	_____	x	38.644	=	_____
_____	51.25	_____	x	58.661	=	_____
_____					TOTAL	_____

TOTAL_____÷ 4288.37 = MEAN VEL_____

52.25

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PIPE ID = 52.50" # OF DATA POINTS 38

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	141.870	=	_____
_____	0.25	_____	x	39.643	=	_____
_____	0.50	_____	x	39.243	=	_____
_____	0.75	_____	x	38.843	=	_____
_____	1.00	_____	x	57.518	=	_____
_____	1.50	_____	x	75.289	=	_____
_____	2.00	_____	x	109.950	=	_____
_____	3.00	_____	x	141.003	=	_____
_____	4.00	_____	x	199.601	=	_____
_____	6.00	_____	x	243.840	=	_____
_____	8.00	_____	x	218.492	=	_____
_____	10.00	_____	x	193.221	=	_____
_____	12.00	_____	x	168.028	=	_____
_____	14.00	_____	x	142.913	=	_____
_____	16.00	_____	x	117.874	=	_____
_____	18.00	_____	x	92.914	=	_____
_____	20.00	_____	x	68.030	=	_____
_____	22.00	_____	x	43.224	=	_____
_____	24.00	_____	x	19.266	=	_____
_____	26.00	_____	x	6.925	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	30.729	=	_____
_____	30.00	_____	x	55.226	=	_____
_____	32.00	_____	x	79.645	=	_____
_____	34.00	_____	x	103.986	=	_____
_____	36.00	_____	x	128.250	=	_____
_____	38.00	_____	x	152.437	=	_____
_____	40.00	_____	x	176.546	=	_____
_____	42.00	_____	x	200.578	=	_____
_____	44.00	_____	x	224.532	=	_____
_____	46.00	_____	x	248.409	=	_____
_____	48.00	_____	x	201.888	=	_____
_____	49.00	_____	x	142.040	=	_____
_____	50.00	_____	x	110.408	=	_____
_____	50.50	_____	x	56.455	=	_____
_____	50.75	_____	x	38.101	=	_____
_____	51.00	_____	x	38.470	=	_____
_____	51.25	_____	x	38.840	=	_____
_____	51.50	_____	x	58.955	=	_____
					TOTAL	_____

TOTAL_____ ÷ 4329.51 = MEAN VEL_____

52.50

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PIPE ID = 52.75" # OF DATA POINTS 38

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 142.557 =	_____
_____	0.25	_____	x 39.840 =	_____
_____	0.50	_____	x 39.440 =	_____
_____	0.75	_____	x 39.040 =	_____
_____	1.00	_____	x 57.813 =	_____
_____	1.50	_____	x 75.682 =	_____
_____	2.00	_____	x 110.540 =	_____
_____	3.00	_____	x 141.790 =	_____
_____	4.00	_____	x 200.781 =	_____
_____	6.00	_____	x 245.414 =	_____
_____	8.00	_____	x 220.066 =	_____
_____	10.00	_____	x 194.795 =	_____
_____	12.00	_____	x 169.600 =	_____
_____	14.00	_____	x 144.481 =	_____
_____	16.00	_____	x 119.440 =	_____
_____	18.00	_____	x 94.475 =	_____
_____	20.00	_____	x 69.587 =	_____
_____	22.00	_____	x 44.775 =	_____
_____	24.00	_____	x 21.245 =	_____
_____	26.00	_____	x 5.820 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 29.199 =	_____
_____	30.00	_____	x 53.704 =	_____
_____	32.00	_____	x 78.132 =	_____
_____	34.00	_____	x 102.483 =	_____
_____	36.00	_____	x 126.758 =	_____
_____	38.00	_____	x 150.956 =	_____
_____	40.00	_____	x 175.077 =	_____
_____	42.00	_____	x 199.122 =	_____
_____	44.00	_____	x 223.090 =	_____
_____	46.00	_____	x 246.981 =	_____
_____	48.00	_____	x 200.828 =	_____
_____	49.00	_____	x 141.337 =	_____
_____	50.00	_____	x 109.884 =	_____
_____	50.50	_____	x 75.114 =	_____
_____	51.00	_____	x 57.304 =	_____
_____	51.25	_____	x 38.666 =	_____
_____	51.50	_____	x 39.036 =	_____
_____	51.75	_____	x 59.249 =	_____
			TOTAL	_____

TOTAL_____ ÷ 4370.84 = MEAN VEL_____

52.75

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PIPE ID = 53.00" # OF DATA POINTS 39

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	143.245	=	_____
_____	0.25	_____	x	40.036	=	_____
_____	0.50	_____	x	39.636	=	_____
_____	0.75	_____	x	39.236	=	_____
_____	1.00	_____	x	58.108	=	_____
_____	1.50	_____	x	76.075	=	_____
_____	2.00	_____	x	111.130	=	_____
_____	3.00	_____	x	142.577	=	_____
_____	4.00	_____	x	201.962	=	_____
_____	6.00	_____	x	246.989	=	_____
_____	8.00	_____	x	221.640	=	_____
_____	10.00	_____	x	196.368	=	_____
_____	12.00	_____	x	171.171	=	_____
_____	14.00	_____	x	146.050	=	_____
_____	16.00	_____	x	121.005	=	_____
_____	18.00	_____	x	96.037	=	_____
_____	20.00	_____	x	71.144	=	_____
_____	22.00	_____	x	46.327	=	_____
_____	24.00	_____	x	23.321	=	_____
_____	26.00	_____	x	4.811	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	27.668	=	_____
_____	30.00	_____	x	52.181	=	_____
_____	32.00	_____	x	76.618	=	_____
_____	34.00	_____	x	100.979	=	_____
_____	36.00	_____	x	125.264	=	_____
_____	38.00	_____	x	149.474	=	_____
_____	40.00	_____	x	173.607	=	_____
_____	42.00	_____	x	197.664	=	_____
_____	44.00	_____	x	221.645	=	_____
_____	46.00	_____	x	245.551	=	_____
_____	48.00	_____	x	199.765	=	_____
_____	49.00	_____	x	140.633	=	_____
_____	50.00	_____	x	109.358	=	_____
_____	50.50	_____	x	74.765	=	_____
_____	51.00	_____	x	57.043	=	_____
_____	51.25	_____	x	38.493	=	_____
_____	51.50	_____	x	38.862	=	_____
_____	51.75	_____	x	39.232	=	_____
_____	52.00	_____	x	59.543	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 4412.37 = MEAN VEL_____

53.00

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PIPE ID = 53.25" # OF DATA POINTS 37

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 143.932 =	_____
_____	0.25	_____	x 40.233 =	_____
_____	0.50	_____	x 39.833 =	_____
_____	0.75	_____	x 39.433 =	_____
_____	1.00	_____	x 58.403 =	_____
_____	1.50	_____	x 76.468 =	_____
_____	2.00	_____	x 111.720 =	_____
_____	3.00	_____	x 143.364 =	_____
_____	4.00	_____	x 203.142 =	_____
_____	6.00	_____	x 248.563 =	_____
_____	8.00	_____	x 223.214 =	_____
_____	10.00	_____	x 197.941 =	_____
_____	12.00	_____	x 172.742 =	_____
_____	14.00	_____	x 147.619 =	_____
_____	16.00	_____	x 122.571 =	_____
_____	18.00	_____	x 97.599 =	_____
_____	20.00	_____	x 72.701 =	_____
_____	22.00	_____	x 47.879 =	_____
_____	24.00	_____	x 25.493 =	_____
_____	26.00	_____	x 3.898 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 26.136 =	_____
_____	30.00	_____	x 50.657 =	_____
_____	32.00	_____	x 75.103 =	_____
_____	34.00	_____	x 99.474 =	_____
_____	36.00	_____	x 123.769 =	_____
_____	38.00	_____	x 147.990 =	_____
_____	40.00	_____	x 172.135 =	_____
_____	42.00	_____	x 196.204 =	_____
_____	44.00	_____	x 220.199 =	_____
_____	46.00	_____	x 244.118 =	_____
_____	48.00	_____	x 267.962 =	_____
_____	50.00	_____	x 216.531 =	_____
_____	51.00	_____	x 113.279 =	_____
_____	51.50	_____	x 57.891 =	_____
_____	51.75	_____	x 39.058 =	_____
_____	52.00	_____	x 39.428 =	_____
_____	52.25	_____	x 59.838 =	_____
_____			TOTAL	_____

TOTAL_____ ÷ 4454.09 = MEAN VEL_____

53.25

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PIPE ID = 53.50" # OF DATA POINTS 38

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	144.619	=	_____
_____	0.25	_____	x	40.429	=	_____
_____	0.50	_____	x	40.029	=	_____
_____	0.75	_____	x	39.629	=	_____
_____	1.00	_____	x	58.697	=	_____
_____	1.50	_____	x	76.862	=	_____
_____	2.00	_____	x	112.310	=	_____
_____	3.00	_____	x	144.151	=	_____
_____	4.00	_____	x	204.323	=	_____
_____	6.00	_____	x	250.138	=	_____
_____	8.00	_____	x	224.789	=	_____
_____	10.00	_____	x	199.514	=	_____
_____	12.00	_____	x	174.314	=	_____
_____	14.00	_____	x	149.188	=	_____
_____	16.00	_____	x	124.137	=	_____
_____	18.00	_____	x	99.161	=	_____
_____	20.00	_____	x	74.259	=	_____
_____	22.00	_____	x	49.431	=	_____
_____	24.00	_____	x	24.678	=	_____
_____	26.00	_____	x	6.160	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	24.604	=	_____
_____	30.00	_____	x	49.133	=	_____
_____	32.00	_____	x	73.588	=	_____
_____	34.00	_____	x	97.968	=	_____
_____	36.00	_____	x	122.273	=	_____
_____	38.00	_____	x	146.504	=	_____
_____	40.00	_____	x	170.661	=	_____
_____	42.00	_____	x	194.743	=	_____
_____	44.00	_____	x	218.750	=	_____
_____	46.00	_____	x	242.683	=	_____
_____	48.00	_____	x	266.541	=	_____
_____	50.00	_____	x	215.476	=	_____
_____	51.00	_____	x	112.754	=	_____
_____	51.50	_____	x	57.630	=	_____
_____	51.75	_____	x	38.884	=	_____
_____	52.00	_____	x	39.254	=	_____
_____	52.25	_____	x	39.624	=	_____
_____	52.50	_____	x	60.132	=	_____
				TOTAL		_____

TOTAL_____ ÷ 4496.01 = MEAN VEL_____

53.50

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PIPE ID = 53.75" # OF DATA POINTS 38

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	145.307	=	_____
_____	0.25	_____	x	40.625	=	_____
_____	0.50	_____	x	40.226	=	_____
_____	0.75	_____	x	39.826	=	_____
_____	1.00	_____	x	58.992	=	_____
_____	1.50	_____	x	77.255	=	_____
_____	2.00	_____	x	112.899	=	_____
_____	3.00	_____	x	144.938	=	_____
_____	4.00	_____	x	205.503	=	_____
_____	6.00	_____	x	251.712	=	_____
_____	8.00	_____	x	226.363	=	_____
_____	10.00	_____	x	201.087	=	_____
_____	12.00	_____	x	175.885	=	_____
_____	14.00	_____	x	150.757	=	_____
_____	16.00	_____	x	125.703	=	_____
_____	18.00	_____	x	100.723	=	_____
_____	20.00	_____	x	75.816	=	_____
_____	22.00	_____	x	50.984	=	_____
_____	24.00	_____	x	26.225	=	_____
_____	26.00	_____	x	3.899	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	25.426	=	_____
_____	30.00	_____	x	47.608	=	_____
_____	32.00	_____	x	72.071	=	_____
_____	34.00	_____	x	96.460	=	_____
_____	36.00	_____	x	120.776	=	_____
_____	38.00	_____	x	145.018	=	_____
_____	40.00	_____	x	169.186	=	_____
_____	42.00	_____	x	193.280	=	_____
_____	44.00	_____	x	217.300	=	_____
_____	46.00	_____	x	241.246	=	_____
_____	48.00	_____	x	265.118	=	_____
_____	50.00	_____	x	214.419	=	_____
_____	51.00	_____	x	112.229	=	_____
_____	51.50	_____	x	76.679	=	_____
_____	52.00	_____	x	58.479	=	_____
_____	52.25	_____	x	39.450	=	_____
_____	52.50	_____	x	39.820	=	_____
_____	52.75	_____	x	60.426	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 4538.13 = MEAN VEL_____

53.75

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PIPE ID = 54.00" # OF DATA POINTS 39

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 145.994 =	_____
_____	0.25	_____	x 40.822 =	_____
_____	0.50	_____	x 40.422 =	_____
_____	0.75	_____	x 40.022 =	_____
_____	1.00	_____	x 59.287 =	_____
_____	1.50	_____	x 77.648 =	_____
_____	2.00	_____	x 113.489 =	_____
_____	3.00	_____	x 145.724 =	_____
_____	4.00	_____	x 206.684 =	_____
_____	6.00	_____	x 253.287 =	_____
_____	8.00	_____	x 227.937 =	_____
_____	10.00	_____	x 202.660 =	_____
_____	12.00	_____	x 177.457 =	_____
_____	14.00	_____	x 152.327 =	_____
_____	16.00	_____	x 127.269 =	_____
_____	18.00	_____	x 102.285 =	_____
_____	20.00	_____	x 77.375 =	_____
_____	22.00	_____	x 52.537 =	_____
_____	24.00	_____	x 27.773 =	_____
_____	26.00	_____	x 4.814 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 23.267 =	_____
_____	30.00	_____	x 46.082 =	_____
_____	32.00	_____	x 70.554 =	_____
_____	34.00	_____	x 94.952 =	_____
_____	36.00	_____	x 119.277 =	_____
_____	38.00	_____	x 143.530 =	_____
_____	40.00	_____	x 167.709 =	_____
_____	42.00	_____	x 191.815 =	_____
_____	44.00	_____	x 215.847 =	_____
_____	46.00	_____	x 239.807 =	_____
_____	48.00	_____	x 263.693 =	_____
_____	50.00	_____	x 213.360 =	_____
_____	51.00	_____	x 111.703 =	_____
_____	51.50	_____	x 76.330 =	_____
_____	52.00	_____	x 58.217 =	_____
_____	52.25	_____	x 39.276 =	_____
_____	52.50	_____	x 39.646 =	_____
_____	52.75	_____	x 40.016 =	_____
_____	53.00	_____	x 60.721 =	_____
			TOTAL	_____

TOTAL_____ ÷ 4580.44 = MEAN VEL_____

54.00

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PIPE ID = 54.25" # OF DATA POINTS 38

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 146.682 =	_____
_____	0.25	_____	x 41.018 =	_____
_____	0.50	_____	x 40.618 =	_____
_____	0.75	_____	x 40.219 =	_____
_____	1.00	_____	x 59.582 =	_____
_____	1.50	_____	x 78.041 =	_____
_____	2.00	_____	x 114.079 =	_____
_____	3.00	_____	x 146.511 =	_____
_____	4.00	_____	x 207.864 =	_____
_____	6.00	_____	x 254.861 =	_____
_____	8.00	_____	x 229.511 =	_____
_____	10.00	_____	x 204.234 =	_____
_____	12.00	_____	x 179.028 =	_____
_____	14.00	_____	x 153.896 =	_____
_____	16.00	_____	x 128.836 =	_____
_____	18.00	_____	x 103.848 =	_____
_____	20.00	_____	x 78.933 =	_____
_____	22.00	_____	x 54.090 =	_____
_____	24.00	_____	x 29.320 =	_____
_____	26.00	_____	x 5.827 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 21.204 =	_____
_____	30.00	_____	x 44.555 =	_____
_____	32.00	_____	x 69.035 =	_____
_____	34.00	_____	x 93.443 =	_____
_____	36.00	_____	x 117.778 =	_____
_____	38.00	_____	x 142.040 =	_____
_____	40.00	_____	x 166.230 =	_____
_____	42.00	_____	x 190.348 =	_____
_____	44.00	_____	x 214.393 =	_____
_____	46.00	_____	x 238.366 =	_____
_____	48.00	_____	x 262.266 =	_____
_____	50.00	_____	x 212.299 =	_____
_____	51.00	_____	x 148.990 =	_____
_____	52.00	_____	x 115.626 =	_____
_____	52.50	_____	x 59.066 =	_____
_____	52.75	_____	x 39.842 =	_____
_____	53.00	_____	x 40.212 =	_____
_____	53.25	_____	x 61.015 =	_____
			TOTAL	_____

TOTAL_____ ÷ 4622.95 = MEAN VEL_____

54.25

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PIPE ID = 54.50" # OF DATA POINTS 39

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 147.369 =	_____
_____	0.25	_____	x 41.215 =	_____
_____	0.50	_____	x 40.815 =	_____
_____	0.75	_____	x 40.415 =	_____
_____	1.00	_____	x 59.876 =	_____
_____	1.50	_____	x 78.434 =	_____
_____	2.00	_____	x 114.669 =	_____
_____	3.00	_____	x 147.298 =	_____
_____	4.00	_____	x 209.045 =	_____
_____	6.00	_____	x 256.436 =	_____
_____	8.00	_____	x 231.085 =	_____
_____	10.00	_____	x 205.807 =	_____
_____	12.00	_____	x 180.600 =	_____
_____	14.00	_____	x 155.465 =	_____
_____	16.00	_____	x 130.402 =	_____
_____	18.00	_____	x 105.411 =	_____
_____	20.00	_____	x 80.492 =	_____
_____	22.00	_____	x 55.644 =	_____
_____	24.00	_____	x 30.869 =	_____
_____	26.00	_____	x 6.935 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 19.237 =	_____
_____	30.00	_____	x 43.027 =	_____
_____	32.00	_____	x 67.516 =	_____
_____	34.00	_____	x 91.932 =	_____
_____	36.00	_____	x 116.277 =	_____
_____	38.00	_____	x 140.550 =	_____
_____	40.00	_____	x 164.751 =	_____
_____	42.00	_____	x 188.880 =	_____
_____	44.00	_____	x 212.937 =	_____
_____	46.00	_____	x 236.922 =	_____
_____	48.00	_____	x 260.836 =	_____
_____	50.00	_____	x 211.237 =	_____
_____	51.00	_____	x 148.286 =	_____
_____	52.00	_____	x 115.101 =	_____
_____	52.50	_____	x 58.804 =	_____
_____	52.75	_____	x 39.668 =	_____
_____	53.00	_____	x 40.038 =	_____
_____	53.25	_____	x 40.408 =	_____
_____	53.50	_____	x 61.309 =	_____
			TOTAL	_____

TOTAL_____ ÷ 4665.66 = MEAN VEL_____

54.50

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	148.057	=	_____
_____	0.25	_____	x	41.411	=	_____
_____	0.50	_____	x	41.011	=	_____
_____	0.75	_____	x	40.612	=	_____
_____	1.00	_____	x	60.171	=	_____
_____	1.50	_____	x	78.827	=	_____
_____	2.00	_____	x	115.259	=	_____
_____	3.00	_____	x	148.085	=	_____
_____	4.00	_____	x	210.225	=	_____
_____	6.00	_____	x	258.010	=	_____
_____	8.00	_____	x	232.659	=	_____
_____	10.00	_____	x	207.380	=	_____
_____	12.00	_____	x	182.172	=	_____
_____	14.00	_____	x	157.035	=	_____
_____	16.00	_____	x	131.969	=	_____
_____	18.00	_____	x	106.974	=	_____
_____	20.00	_____	x	82.051	=	_____
_____	22.00	_____	x	57.198	=	_____
_____	24.00	_____	x	32.417	=	_____
_____	26.00	_____	x	8.141	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	17.364	=	_____
_____	30.00	_____	x	41.499	=	_____
_____	32.00	_____	x	65.996	=	_____
_____	34.00	_____	x	90.421	=	_____
_____	36.00	_____	x	114.775	=	_____
_____	38.00	_____	x	139.058	=	_____
_____	40.00	_____	x	163.269	=	_____
_____	42.00	_____	x	187.410	=	_____
_____	44.00	_____	x	211.479	=	_____
_____	46.00	_____	x	235.477	=	_____
_____	48.00	_____	x	259.404	=	_____
_____	50.00	_____	x	210.173	=	_____
_____	51.00	_____	x	147.581	=	_____
_____	52.00	_____	x	114.574	=	_____
_____	52.50	_____	x	78.245	=	_____
_____	53.00	_____	x	59.654	=	_____
_____	53.25	_____	x	40.234	=	_____
_____	53.50	_____	x	40.605	=	_____
_____	53.75	_____	x	61.604	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 4708.56 = MEAN VEL_____

54.75

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PIPE ID = 55.00" # OF DATA POINTS 40

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 148.744 =	_____
_____	0.25	_____	x 41.608 =	_____
_____	0.50	_____	x 41.208 =	_____
_____	0.75	_____	x 40.808 =	_____
_____	1.00	_____	x 60.466 =	_____
_____	1.50	_____	x 79.220 =	_____
_____	2.00	_____	x 115.849 =	_____
_____	3.00	_____	x 148.871 =	_____
_____	4.00	_____	x 211.405 =	_____
_____	6.00	_____	x 259.584 =	_____
_____	8.00	_____	x 234.234 =	_____
_____	10.00	_____	x 208.953 =	_____
_____	12.00	_____	x 183.744 =	_____
_____	14.00	_____	x 158.604 =	_____
_____	16.00	_____	x 133.536 =	_____
_____	18.00	_____	x 108.538 =	_____
_____	20.00	_____	x 83.610 =	_____
_____	22.00	_____	x 58.753 =	_____
_____	24.00	_____	x 33.966 =	_____
_____	26.00	_____	x 9.443 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 15.588 =	_____
_____	30.00	_____	x 39.970 =	_____
_____	32.00	_____	x 64.474 =	_____
_____	34.00	_____	x 88.908 =	_____
_____	36.00	_____	x 113.272 =	_____
_____	38.00	_____	x 137.564 =	_____
_____	40.00	_____	x 161.787 =	_____
_____	42.00	_____	x 185.938 =	_____
_____	44.00	_____	x 210.019 =	_____
_____	46.00	_____	x 234.030 =	_____
_____	48.00	_____	x 257.970 =	_____
_____	50.00	_____	x 209.107 =	_____
_____	51.00	_____	x 146.874 =	_____
_____	52.00	_____	x 114.047 =	_____
_____	52.50	_____	x 77.894 =	_____
_____	53.00	_____	x 59.392 =	_____
_____	53.25	_____	x 40.060 =	_____
_____	53.50	_____	x 40.430 =	_____
_____	53.75	_____	x 40.801 =	_____
_____	54.00	_____	x 61.898 =	_____
			TOTAL	_____

TOTAL_____ ÷ 4751.66 = MEAN VEL_____

55.00

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PIPE ID = 55.25" # OF DATA POINTS 38

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	149.431	=	_____
_____	0.25	_____	x	41.804	=	_____
_____	0.50	_____	x	41.404	=	_____
_____	0.75	_____	x	41.005	=	_____
_____	1.00	_____	x	60.761	=	_____
_____	1.50	_____	x	79.614	=	_____
_____	2.00	_____	x	116.438	=	_____
_____	3.00	_____	x	149.658	=	_____
_____	4.00	_____	x	212.586	=	_____
_____	6.00	_____	x	261.159	=	_____
_____	8.00	_____	x	235.808	=	_____
_____	10.00	_____	x	210.527	=	_____
_____	12.00	_____	x	185.315	=	_____
_____	14.00	_____	x	160.174	=	_____
_____	16.00	_____	x	135.103	=	_____
_____	18.00	_____	x	110.101	=	_____
_____	20.00	_____	x	85.169	=	_____
_____	22.00	_____	x	60.308	=	_____
_____	24.00	_____	x	35.516	=	_____
_____	26.00	_____	x	10.842	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	13.906	=	_____
_____	30.00	_____	x	38.440	=	_____
_____	32.00	_____	x	62.953	=	_____
_____	34.00	_____	x	87.395	=	_____
_____	36.00	_____	x	111.767	=	_____
_____	38.00	_____	x	136.070	=	_____
_____	40.00	_____	x	160.303	=	_____
_____	42.00	_____	x	184.465	=	_____
_____	44.00	_____	x	208.558	=	_____
_____	46.00	_____	x	232.581	=	_____
_____	48.00	_____	x	256.534	=	_____
_____	50.00	_____	x	280.417	=	_____
_____	52.00	_____	x	225.902	=	_____
_____	53.00	_____	x	117.974	=	_____
_____	53.50	_____	x	60.242	=	_____
_____	53.75	_____	x	40.626	=	_____
_____	54.00	_____	x	40.997	=	_____
_____	54.25	_____	x	62.192	=	_____
_____					TOTAL	_____

TOTAL_____÷ 4794.95 = MEAN VEL_____

55.25

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PIPE ID = 55.50" # OF DATA POINTS 39

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 150.119 =	_____
_____	0.25	_____	x 42.000 =	_____
_____	0.50	_____	x 41.601 =	_____
_____	0.75	_____	x 41.201 =	_____
_____	1.00	_____	x 61.056 =	_____
_____	1.50	_____	x 80.007 =	_____
_____	2.00	_____	x 117.028 =	_____
_____	3.00	_____	x 150.445 =	_____
_____	4.00	_____	x 213.766 =	_____
_____	6.00	_____	x 262.733 =	_____
_____	8.00	_____	x 237.382 =	_____
_____	10.00	_____	x 212.100 =	_____
_____	12.00	_____	x 186.887 =	_____
_____	14.00	_____	x 161.744 =	_____
_____	16.00	_____	x 136.670 =	_____
_____	18.00	_____	x 111.665 =	_____
_____	20.00	_____	x 86.729 =	_____
_____	22.00	_____	x 61.863 =	_____
_____	24.00	_____	x 37.066 =	_____
_____	26.00	_____	x 12.338 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 12.321 =	_____
_____	30.00	_____	x 36.910 =	_____
_____	32.00	_____	x 61.430 =	_____
_____	34.00	_____	x 85.881 =	_____
_____	36.00	_____	x 110.262 =	_____
_____	38.00	_____	x 134.574 =	_____
_____	40.00	_____	x 158.817 =	_____
_____	42.00	_____	x 182.991 =	_____
_____	44.00	_____	x 207.095 =	_____
_____	46.00	_____	x 231.130 =	_____
_____	48.00	_____	x 255.096 =	_____
_____	50.00	_____	x 278.992 =	_____
_____	52.00	_____	x 224.844 =	_____
_____	53.00	_____	x 117.448 =	_____
_____	53.50	_____	x 59.979 =	_____
_____	53.75	_____	x 40.451 =	_____
_____	54.00	_____	x 40.822 =	_____
_____	54.25	_____	x 41.193 =	_____
_____	54.50	_____	x 62.487 =	_____
_____			TOTAL	_____

TOTAL_____ ÷ 4838.45 = MEAN VEL_____

55.50

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PIPE ID = 55.75" # OF DATA POINTS 39

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	150.806	=	_____
_____	0.25	_____	x	42.197	=	_____
_____	0.50	_____	x	41.797	=	_____
_____	0.75	_____	x	41.398	=	_____
_____	1.00	_____	x	61.350	=	_____
_____	1.50	_____	x	80.400	=	_____
_____	2.00	_____	x	117.618	=	_____
_____	3.00	_____	x	151.232	=	_____
_____	4.00	_____	x	214.947	=	_____
_____	6.00	_____	x	264.308	=	_____
_____	8.00	_____	x	238.956	=	_____
_____	10.00	_____	x	213.673	=	_____
_____	12.00	_____	x	188.459	=	_____
_____	14.00	_____	x	163.314	=	_____
_____	16.00	_____	x	138.237	=	_____
_____	18.00	_____	x	113.229	=	_____
_____	20.00	_____	x	88.289	=	_____
_____	22.00	_____	x	63.418	=	_____
_____	24.00	_____	x	38.616	=	_____
_____	26.00	_____	x	13.931	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	10.831	=	_____
_____	30.00	_____	x	35.379	=	_____
_____	32.00	_____	x	59.906	=	_____
_____	34.00	_____	x	84.365	=	_____
_____	36.00	_____	x	108.756	=	_____
_____	38.00	_____	x	133.077	=	_____
_____	40.00	_____	x	157.330	=	_____
_____	42.00	_____	x	181.515	=	_____
_____	44.00	_____	x	205.630	=	_____
_____	46.00	_____	x	229.677	=	_____
_____	48.00	_____	x	253.656	=	_____
_____	50.00	_____	x	277.565	=	_____
_____	52.00	_____	x	223.783	=	_____
_____	53.00	_____	x	116.920	=	_____
_____	53.50	_____	x	79.811	=	_____
_____	54.00	_____	x	60.829	=	_____
_____	54.25	_____	x	41.018	=	_____
_____	54.50	_____	x	41.389	=	_____
_____	54.75	_____	x	62.781	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 4882.13 = MEAN VEL_____

55.75

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PIPE ID = 56.00" # OF DATA POINTS 40

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	151.494	=	_____
_____	0.25	_____	x	42.393	=	_____
_____	0.50	_____	x	41.994	=	_____
_____	0.75	_____	x	41.594	=	_____
_____	1.00	_____	x	61.645	=	_____
_____	1.50	_____	x	80.793	=	_____
_____	2.00	_____	x	118.208	=	_____
_____	3.00	_____	x	152.018	=	_____
_____	4.00	_____	x	216.127	=	_____
_____	6.00	_____	x	265.882	=	_____
_____	8.00	_____	x	240.530	=	_____
_____	10.00	_____	x	215.247	=	_____
_____	12.00	_____	x	190.031	=	_____
_____	14.00	_____	x	164.884	=	_____
_____	16.00	_____	x	139.804	=	_____
_____	18.00	_____	x	114.793	=	_____
_____	20.00	_____	x	89.849	=	_____
_____	22.00	_____	x	64.974	=	_____
_____	24.00	_____	x	40.167	=	_____
_____	26.00	_____	x	15.620	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	9.436	=	_____
_____	30.00	_____	x	33.847	=	_____
_____	32.00	_____	x	58.382	=	_____
_____	34.00	_____	x	82.849	=	_____
_____	36.00	_____	x	107.248	=	_____
_____	38.00	_____	x	131.579	=	_____
_____	40.00	_____	x	155.842	=	_____
_____	42.00	_____	x	180.037	=	_____
_____	44.00	_____	x	204.164	=	_____
_____	46.00	_____	x	228.223	=	_____
_____	48.00	_____	x	252.214	=	_____
_____	50.00	_____	x	276.136	=	_____
_____	52.00	_____	x	222.721	=	_____
_____	53.00	_____	x	116.392	=	_____
_____	53.50	_____	x	79.459	=	_____
_____	54.00	_____	x	60.566	=	_____
_____	54.25	_____	x	40.843	=	_____
_____	54.50	_____	x	41.214	=	_____
_____	54.75	_____	x	41.585	=	_____
_____	55.00	_____	x	63.075	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 4926.02 = MEAN VEL_____

56.00

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PIPE ID = 56.25" # OF DATA POINTS 39

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	152.181	=	_____
_____	0.25	_____	x	42.590	=	_____
_____	0.50	_____	x	42.190	=	_____
_____	0.75	_____	x	41.791	=	_____
_____	1.00	_____	x	61.940	=	_____
_____	1.50	_____	x	81.186	=	_____
_____	2.00	_____	x	118.798	=	_____
_____	3.00	_____	x	152.805	=	_____
_____	4.00	_____	x	217.307	=	_____
_____	6.00	_____	x	267.456	=	_____
_____	8.00	_____	x	242.104	=	_____
_____	10.00	_____	x	216.820	=	_____
_____	12.00	_____	x	191.603	=	_____
_____	14.00	_____	x	166.454	=	_____
_____	16.00	_____	x	141.372	=	_____
_____	18.00	_____	x	116.357	=	_____
_____	20.00	_____	x	91.410	=	_____
_____	22.00	_____	x	66.530	=	_____
_____	24.00	_____	x	41.718	=	_____
_____	26.00	_____	x	17.407	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	8.138	=	_____
_____	30.00	_____	x	32.314	=	_____
_____	32.00	_____	x	56.857	=	_____
_____	34.00	_____	x	81.332	=	_____
_____	36.00	_____	x	105.740	=	_____
_____	38.00	_____	x	130.080	=	_____
_____	40.00	_____	x	154.353	=	_____
_____	42.00	_____	x	178.558	=	_____
_____	44.00	_____	x	202.696	=	_____
_____	46.00	_____	x	226.766	=	_____
_____	48.00	_____	x	250.770	=	_____
_____	50.00	_____	x	274.705	=	_____
_____	52.00	_____	x	221.657	=	_____
_____	53.00	_____	x	155.241	=	_____
_____	54.00	_____	x	120.323	=	_____
_____	54.50	_____	x	61.417	=	_____
_____	54.75	_____	x	41.410	=	_____
_____	55.00	_____	x	41.781	=	_____
_____	55.25	_____	x	63.370	=	_____
_____						

TOTAL _____

TOTAL_____ ÷ 4970.10 = MEAN VEL_____

PIPE ID = 56.50" # OF DATA POINTS 40

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	152.868	=	_____
_____	0.25	_____	x	42.786	=	_____
_____	0.50	_____	x	42.387	=	_____
_____	0.75	_____	x	41.987	=	_____
_____	1.00	_____	x	62.235	=	_____
_____	1.50	_____	x	81.579	=	_____
_____	2.00	_____	x	119.387	=	_____
_____	3.00	_____	x	153.592	=	_____
_____	4.00	_____	x	218.488	=	_____
_____	6.00	_____	x	269.030	=	_____
_____	8.00	_____	x	243.678	=	_____
_____	10.00	_____	x	218.393	=	_____
_____	12.00	_____	x	193.175	=	_____
_____	14.00	_____	x	168.024	=	_____
_____	16.00	_____	x	142.939	=	_____
_____	18.00	_____	x	117.921	=	_____
_____	20.00	_____	x	92.971	=	_____
_____	22.00	_____	x	68.086	=	_____
_____	24.00	_____	x	43.269	=	_____
_____	26.00	_____	x	19.291	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	6.935	=	_____
_____	30.00	_____	x	30.781	=	_____
_____	32.00	_____	x	55.331	=	_____
_____	34.00	_____	x	79.814	=	_____
_____	36.00	_____	x	104.230	=	_____
_____	38.00	_____	x	128.580	=	_____
_____	40.00	_____	x	152.862	=	_____
_____	42.00	_____	x	177.078	=	_____
_____	44.00	_____	x	201.226	=	_____
_____	46.00	_____	x	225.308	=	_____
_____	48.00	_____	x	249.324	=	_____
_____	50.00	_____	x	273.272	=	_____
_____	52.00	_____	x	220.591	=	_____
_____	53.00	_____	x	154.534	=	_____
_____	54.00	_____	x	119.795	=	_____
_____	54.50	_____	x	61.154	=	_____
_____	54.75	_____	x	41.235	=	_____
_____	55.00	_____	x	41.606	=	_____
_____	55.25	_____	x	41.977	=	_____
_____	55.50	_____	x	63.664	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 5014.37 = MEAN VEL_____

56.50

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PIPE ID = 56.75" # OF DATA POINTS 40

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 153.556 =	_____
_____	0.25	_____	x 42.983 =	_____
_____	0.50	_____	x 42.583 =	_____
_____	0.75	_____	x 42.184 =	_____
_____	1.00	_____	x 62.529 =	_____
_____	1.50	_____	x 81.972 =	_____
_____	2.00	_____	x 119.977 =	_____
_____	3.00	_____	x 154.379 =	_____
_____	4.00	_____	x 219.668 =	_____
_____	6.00	_____	x 270.605 =	_____
_____	8.00	_____	x 245.253 =	_____
_____	10.00	_____	x 219.967 =	_____
_____	12.00	_____	x 194.747 =	_____
_____	14.00	_____	x 169.594 =	_____
_____	16.00	_____	x 144.507 =	_____
_____	18.00	_____	x 119.486 =	_____
_____	20.00	_____	x 94.531 =	_____
_____	22.00	_____	x 69.643 =	_____
_____	24.00	_____	x 44.821 =	_____
_____	26.00	_____	x 21.271 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 5.828 =	_____
_____	30.00	_____	x 29.248 =	_____
_____	32.00	_____	x 53.805 =	_____
_____	34.00	_____	x 78.295 =	_____
_____	36.00	_____	x 102.720 =	_____
_____	38.00	_____	x 127.078 =	_____
_____	40.00	_____	x 151.370 =	_____
_____	42.00	_____	x 175.596 =	_____
_____	44.00	_____	x 199.755 =	_____
_____	46.00	_____	x 223.849 =	_____
_____	48.00	_____	x 247.876 =	_____
_____	50.00	_____	x 271.836 =	_____
_____	52.00	_____	x 219.523 =	_____
_____	53.00	_____	x 153.827 =	_____
_____	54.00	_____	x 119.267 =	_____
_____	54.50	_____	x 81.376 =	_____
_____	55.00	_____	x 62.005 =	_____
_____	55.25	_____	x 41.802 =	_____
_____	55.50	_____	x 42.173 =	_____
_____	55.75	_____	x 63.958 =	_____
			TOTAL	_____

TOTAL_____ ÷ 5058.85 = MEAN VEL_____

56.75

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PIPE ID = 57.00" # OF DATA POINTS 41

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 154.243 =	_____
_____	0.25	_____	x 43.179 =	_____
_____	0.50	_____	x 42.780 =	_____
_____	0.75	_____	x 42.380 =	_____
_____	1.00	_____	x 62.824 =	_____
_____	1.50	_____	x 2.365 =	_____
_____	2.00	_____	x 120.567 =	_____
_____	3.00	_____	x 155.165 =	_____
_____	4.00	_____	x 220.848 =	_____
_____	6.00	_____	x 272.179 =	_____
_____	8.00	_____	x 246.827 =	_____
_____	10.00	_____	x 221.540 =	_____
_____	12.00	_____	x 196.319 =	_____
_____	14.00	_____	x 171.164 =	_____
_____	16.00	_____	x 146.075 =	_____
_____	18.00	_____	x 121.051 =	_____
_____	20.00	_____	x 96.093 =	_____
_____	22.00	_____	x 71.200 =	_____
_____	24.00	_____	x 46.373 =	_____
_____	26.00	_____	x 23.349 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 4.818 =	_____
_____	30.00	_____	x 27.713 =	_____
_____	32.00	_____	x 52.277 =	_____
_____	34.00	_____	x 76.776 =	_____
_____	36.00	_____	x 101.208 =	_____
_____	38.00	_____	x 125.576 =	_____
_____	40.00	_____	x 149.877 =	_____
_____	42.00	_____	x 174.113 =	_____
_____	44.00	_____	x 198.283 =	_____
_____	46.00	_____	x 222.387 =	_____
_____	48.00	_____	x 246.426 =	_____
_____	50.00	_____	x 270.399 =	_____
_____	52.00	_____	x 218.454 =	_____
_____	53.00	_____	x 153.118 =	_____
_____	54.00	_____	x 118.737 =	_____
_____	54.50	_____	x 81.025 =	_____
_____	55.00	_____	x 61.741 =	_____
_____	55.25	_____	x 41.627 =	_____
_____	55.50	_____	x 41.998 =	_____
_____	55.75	_____	x 42.369 =	_____
_____	56.00	_____	x 64.253 =	_____
_____			TOTAL	_____

TOTAL_____ ÷ 5103.52 = MEAN VEL_____

57.00

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PIPE ID = 57.25" # OF DATA POINTS 39

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	154.930	=	_____
_____	0.25	_____	x	43.375	=	_____
_____	0.50	_____	x	42.976	=	_____
_____	0.75	_____	x	42.577	=	_____
_____	1.00	_____	x	63.119	=	_____
_____	1.50	_____	x	82.758	=	_____
_____	2.00	_____	x	121.157	=	_____
_____	3.00	_____	x	155.952	=	_____
_____	4.00	_____	x	222.028	=	_____
_____	6.00	_____	x	273.753	=	_____
_____	8.00	_____	x	248.401	=	_____
_____	10.00	_____	x	223.114	=	_____
_____	12.00	_____	x	197.891	=	_____
_____	14.00	_____	x	172.734	=	_____
_____	16.00	_____	x	147.643	=	_____
_____	18.00	_____	x	122.616	=	_____
_____	20.00	_____	x	97.654	=	_____
_____	22.00	_____	x	72.757	=	_____
_____	24.00	_____	x	47.926	=	_____
_____	26.00	_____	x	25.524	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	3.903	=	_____
_____	30.00	_____	x	26.178	=	_____
_____	32.00	_____	x	50.749	=	_____
_____	34.00	_____	x	75.255	=	_____
_____	36.00	_____	x	99.696	=	_____
_____	38.00	_____	x	124.072	=	_____
_____	40.00	_____	x	148.383	=	_____
_____	42.00	_____	x	172.628	=	_____
_____	44.00	_____	x	196.809	=	_____
_____	46.00	_____	x	220.924	=	_____
_____	48.00	_____	x	244.974	=	_____
_____	50.00	_____	x	268.960	=	_____
_____	52.00	_____	x	292.880	=	_____
_____	54.00	_____	x	235.278	=	_____
_____	55.00	_____	x	122.671	=	_____
_____	55.50	_____	x	62.592	=	_____
_____	55.75	_____	x	42.194	=	_____
_____	56.00	_____	x	42.566	=	_____
_____	56.25	_____	x	64.547	=	_____
_____					TOTAL	_____

TOTAL_____÷ 5148.38 = MEAN VEL_____

57.25

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PIPE ID = 57.50" # OF DATA POINTS 40

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	155.618	=	_____
_____	0.25	_____	x	43.572	=	_____
_____	0.50	_____	x	43.172	=	_____
_____	0.75	_____	x	42.773	=	_____
_____	1.00	_____	x	63.414	=	_____
_____	1.50	_____	x	83.152	=	_____
_____	2.00	_____	x	121.747	=	_____
_____	3.00	_____	x	156.739	=	_____
_____	4.00	_____	x	223.209	=	_____
_____	6.00	_____	x	275.327	=	_____
_____	8.00	_____	x	249.975	=	_____
_____	10.00	_____	x	224.687	=	_____
_____	12.00	_____	x	199.464	=	_____
_____	14.00	_____	x	174.305	=	_____
_____	16.00	_____	x	149.211	=	_____
_____	18.00	_____	x	124.181	=	_____
_____	20.00	_____	x	99.216	=	_____
_____	22.00	_____	x	74.315	=	_____
_____	24.00	_____	x	49.479	=	_____
_____	26.00	_____	x	24.707	=	_____
_____	28.00	_____	x	6.169	=	_____
_____	30.00	_____	x	24.643	=	_____
_____	32.00	_____	x	49.221	=	_____
_____	34.00	_____	x	73.734	=	_____
_____	36.00	_____	x	98.183	=	_____
_____	38.00	_____	x	122.567	=	_____
_____	40.00	_____	x	146.887	=	_____
_____	42.00	_____	x	171.143	=	_____
_____	44.00	_____	x	195.333	=	_____
_____	46.00	_____	x	219.460	=	_____
_____	48.00	_____	x	243.521	=	_____
_____	50.00	_____	x	267.518	=	_____
_____	52.00	_____	x	291.451	=	_____
_____	54.00	_____	x	234.215	=	_____
_____	55.00	_____	x	122.143	=	_____
_____	55.50	_____	x	62.329	=	_____
_____	55.75	_____	x	42.019	=	_____
_____	56.00	_____	x	42.390	=	_____
_____	56.25	_____	x	42.762	=	_____
_____	56.50	_____	x	64.841	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 5193.45 = MEAN VEL_____

57.50

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PIPE ID = 57.75" # OF DATA POINTS 40

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 156.305 =	_____
_____	0.25	_____	x 43.768 =	_____
_____	0.50	_____	x 43.369 =	_____
_____	0.75	_____	x 42.970 =	_____
_____	1.00	_____	x 63.708 =	_____
_____	1.50	_____	x 83.545 =	_____
_____	2.00	_____	x 122.336 =	_____
_____	3.00	_____	x 157.525 =	_____
_____	4.00	_____	x 224.389 =	_____
_____	6.00	_____	x 276.902 =	_____
_____	8.00	_____	x 251.549 =	_____
_____	10.00	_____	x 226.260 =	_____
_____	12.00	_____	x 201.036 =	_____
_____	14.00	_____	x 175.875 =	_____
_____	16.00	_____	x 150.779 =	_____
_____	18.00	_____	x 125.746 =	_____
_____	20.00	_____	x 100.777 =	_____
_____	22.00	_____	x 75.873 =	_____
_____	24.00	_____	x 51.032 =	_____
_____	26.00	_____	x 26.255 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 3.904 =	_____
_____	30.00	_____	x 25.465 =	_____
_____	32.00	_____	x 47.691 =	_____
_____	34.00	_____	x 72.212 =	_____
_____	36.00	_____	x 96.669 =	_____
_____	38.00	_____	x 121.062 =	_____
_____	40.00	_____	x 145.391 =	_____
_____	42.00	_____	x 169.655 =	_____
_____	44.00	_____	x 193.856 =	_____
_____	46.00	_____	x 217.993 =	_____
_____	48.00	_____	x 242.066 =	_____
_____	50.00	_____	x 266.075 =	_____
_____	52.00	_____	x 290.020 =	_____
_____	54.00	_____	x 233.151 =	_____
_____	55.00	_____	x 121.613 =	_____
_____	55.50	_____	x 82.943 =	_____
_____	56.00	_____	x 63.180 =	_____
_____	56.25	_____	x 42.586 =	_____
_____	56.50	_____	x 42.958 =	_____
_____	56.75	_____	x 65.136 =	_____
_____			TOTAL	_____

TOTAL_____ ÷ 5238.70 = MEAN VEL_____

57.75

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PIPE ID = 58.00" # OF DATA POINTS 41

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	156.993	=	_____
_____	0.25	_____	x	43.965	=	_____
_____	0.50	_____	x	43.565	=	_____
_____	0.75	_____	x	43.166	=	_____
_____	1.00	_____	x	64.003	=	_____
_____	1.50	_____	x	83.938	=	_____
_____	2.00	_____	x	122.926	=	_____
_____	3.00	_____	x	158.312	=	_____
_____	4.00	_____	x	225.569	=	_____
_____	6.00	_____	x	278.476	=	_____
_____	8.00	_____	x	253.123	=	_____
_____	10.00	_____	x	227.834	=	_____
_____	12.00	_____	x	202.608	=	_____
_____	14.00	_____	x	177.446	=	_____
_____	16.00	_____	x	152.347	=	_____
_____	18.00	_____	x	127.311	=	_____
_____	20.00	_____	x	102.339	=	_____
_____	22.00	_____	x	77.431	=	_____
_____	24.00	_____	x	52.585	=	_____
_____	26.00	_____	x	27.804	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	4.821	=	_____
_____	30.00	_____	x	23.303	=	_____
_____	32.00	_____	x	46.161	=	_____
_____	34.00	_____	x	70.689	=	_____
_____	36.00	_____	x	95.154	=	_____
_____	38.00	_____	x	119.555	=	_____
_____	40.00	_____	x	143.893	=	_____
_____	42.00	_____	x	168.167	=	_____
_____	44.00	_____	x	192.378	=	_____
_____	46.00	_____	x	216.526	=	_____
_____	48.00	_____	x	240.610	=	_____
_____	50.00	_____	x	264.630	=	_____
_____	52.00	_____	x	288.587	=	_____
_____	54.00	_____	x	232.086	=	_____
_____	55.00	_____	x	121.083	=	_____
_____	55.50	_____	x	82.590	=	_____
_____	56.00	_____	x	62.916	=	_____
_____	56.25	_____	x	42.411	=	_____
_____	56.50	_____	x	42.782	=	_____
_____	56.75	_____	x	43.154	=	_____
_____	57.00	_____	x	65.430	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 5284.16 = MEAN VEL_____

58.00

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	157.680	=	_____
_____	0.25	_____	x	44.161	=	_____
_____	0.50	_____	x	43.762	=	_____
_____	0.75	_____	x	43.363	=	_____
_____	1.00	_____	x	64.298	=	_____
_____	1.50	_____	x	84.331	=	_____
_____	2.00	_____	x	123.516	=	_____
_____	3.00	_____	x	159.098	=	_____
_____	4.00	_____	x	226.749	=	_____
_____	6.00	_____	x	280.050	=	_____
_____	8.00	_____	x	254.697	=	_____
_____	10.00	_____	x	229.407	=	_____
_____	12.00	_____	x	204.180	=	_____
_____	14.00	_____	x	179.016	=	_____
_____	16.00	_____	x	153.915	=	_____
_____	18.00	_____	x	128.877	=	_____
_____	20.00	_____	x	103.901	=	_____
_____	22.00	_____	x	78.989	=	_____
_____	24.00	_____	x	54.139	=	_____
_____	26.00	_____	x	29.353		
=_____						

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	5.834	=	_____
_____	30.00	_____	x	21.236	=	_____
_____	32.00	_____	x	44.630	=	_____
_____	34.00	_____	x	69.166	=	_____
_____	36.00	_____	x	93.638	=	_____
_____	38.00	_____	x	118.047	=	_____
_____	40.00	_____	x	142.394	=	_____
_____	42.00	_____	x	166.678	=	_____
_____	44.00	_____	x	190.898	=	_____
_____	46.00	_____	x	215.056	=	_____
_____	48.00	_____	x	239.151	=	_____
_____	50.00	_____	x	263.183	=	_____
_____	52.00	_____	x	287.153	=	_____
_____	54.00	_____	x	231.018	=	_____
_____	55.00	_____	x	161.494	=	_____
_____	56.00	_____	x	125.020	=	_____
_____	56.50	_____	x	63.768	=	_____
_____	56.75	_____	x	42.978	=	_____
_____	57.00	_____	x	43.350	=	_____
_____	57.25	_____	x	65.724	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 5329.81 = MEAN VEL_____

58.25

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PIPE ID = 58.50" # OF DATA POINTS 41

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	158.367	=	_____
_____	0.25	_____	x	44.358	=	_____
_____	0.50	_____	x	43.958	=	_____
_____	0.75	_____	x	43.559	=	_____
_____	1.00	_____	x	64.593	=	_____
_____	1.50	_____	x	84.724	=	_____
_____	2.00	_____	x	124.106	=	_____
_____	3.00	_____	x	159.885	=	_____
_____	4.00	_____	x	227.930	=	_____
_____	6.00	_____	x	281.624	=	_____
_____	8.00	_____	x	256.271	=	_____
_____	10.00	_____	x	230.981	=	_____
_____	12.00	_____	x	205.753	=	_____
_____	14.00	_____	x	180.587	=	_____
_____	16.00	_____	x	155.484	=	_____
_____	18.00	_____	x	130.443	=	_____
_____	20.00	_____	x	105.464	=	_____
_____	22.00	_____	x	80.548	=	_____
_____	24.00	_____	x	55.694	=	_____
_____	26.00	_____	x	30.902	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	6.944	=	_____
_____	30.00	_____	x	19.265	=	_____
_____	32.00	_____	x	43.099	=	_____
_____	34.00	_____	x	67.641	=	_____
_____	36.00	_____	x	92.121	=	_____
_____	38.00	_____	x	116.539	=	_____
_____	40.00	_____	x	140.894	=	_____
_____	42.00	_____	x	165.187	=	_____
_____	44.00	_____	x	189.417	=	_____
_____	46.00	_____	x	213.585	=	_____
_____	48.00	_____	x	237.691	=	_____
_____	50.00	_____	x	261.735	=	_____
_____	52.00	_____	x	285.716	=	_____
_____	54.00	_____	x	229.949	=	_____
_____	55.00	_____	x	160.785	=	_____
_____	56.00	_____	x	124.491	=	_____
_____	56.50	_____	x	63.504	=	_____
_____	56.75	_____	x	42.803	=	_____
_____	57.00	_____	x	43.174	=	_____
_____	57.25	_____	x	43.546	=	_____
_____	57.50	_____	x	66.019	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 5375.66 = MEAN VEL_____

58.50

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PIPE ID = 58.75" # OF DATA POINTS 41

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 159.055 =	_____
_____	0.25	_____	x 44.554 =	_____
_____	0.50	_____	x 44.155 =	_____
_____	0.75	_____	x 43.755 =	_____
_____	1.00	_____	x 64.887 =	_____
_____	1.50	_____	x 85.117 =	_____
_____	2.00	_____	x 124.695 =	_____
_____	3.00	_____	x 160.672 =	_____
_____	4.00	_____	x 229.110 =	_____
_____	6.00	_____	x 283.198 =	_____
_____	8.00	_____	x 257.845 =	_____
_____	10.00	_____	x 232.554 =	_____
_____	12.00	_____	x 207.325 =	_____
_____	14.00	_____	x 182.158 =	_____
_____	16.00	_____	x 157.052 =	_____
_____	18.00	_____	x 132.008 =	_____
_____	20.00	_____	x 107.026 =	_____
_____	22.00	_____	x 82.106 =	_____
_____	24.00	_____	x 57.248 =	_____
_____	26.00	_____	x 32.452 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 8.151 =	_____
_____	30.00	_____	x 17.389 =	_____
_____	32.00	_____	x 41.567 =	_____
_____	34.00	_____	x 66.116 =	_____
_____	36.00	_____	x 90.604 =	_____
_____	38.00	_____	x 115.029 =	_____
_____	40.00	_____	x 139.393 =	_____
_____	42.00	_____	x 163.695 =	_____
_____	44.00	_____	x 187.935 =	_____
_____	46.00	_____	x 212.113 =	_____
_____	48.00	_____	x 236.230 =	_____
_____	50.00	_____	x 260.284 =	_____
_____	52.00	_____	x 284.277 =	_____
_____	54.00	_____	x 228.879 =	_____
_____	55.00	_____	x 160.075 =	_____
_____	56.00	_____	x 123.960 =	_____
_____	56.50	_____	x 84.509 =	_____
_____	57.00	_____	x 64.356 =	_____
_____	57.25	_____	x 43.371 =	_____
_____	57.50	_____	x 43.742 =	_____
_____	57.75	_____	x 66.313 =	_____
			TOTAL	_____

TOTAL_____ ÷ 5421.70 = MEAN VEL_____

58.75

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	159.742	=	_____
_____	0.25	_____	x	44.750	=	_____
_____	0.50	_____	x	44.351	=	_____
_____	0.75	_____	x	43.952	=	_____
_____	1.00	_____	x	65.182	=	_____
_____	1.50	_____	x	85.510	=	_____
_____	2.00	_____	x	125.285	=	_____
_____	3.00	_____	x	161.458	=	_____
_____	4.00	_____	x	230.290	=	_____
_____	6.00	_____	x	284.772	=	_____
_____	8.00	_____	x	259.419	=	_____
_____	10.00	_____	x	234.128	=	_____
_____	12.00	_____	x	208.898	=	_____
_____	14.00	_____	x	183.729	=	_____
_____	16.00	_____	x	158.621	=	_____
_____	18.00	_____	x	133.574	=	_____
_____	20.00	_____	x	108.589	=	_____
_____	22.00	_____	x	83.665	=	_____
_____	24.00	_____	x	58.803	=	_____
_____	26.00	_____	x	34.002	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	9.455	=	_____
_____	30.00	_____	x	15.610	=	_____
_____	32.00	_____	x	40.034	=	_____
_____	34.00	_____	x	64.590	=	_____
_____	36.00	_____	x	89.085	=	_____
_____	38.00	_____	x	113.519	=	_____
_____	40.00	_____	x	137.891	=	_____
_____	42.00	_____	x	162.202	=	_____
_____	44.00	_____	x	186.451	=	_____
_____	46.00	_____	x	210.639	=	_____
_____	48.00	_____	x	234.766	=	_____
_____	50.00	_____	x	258.832	=	_____
_____	52.00	_____	x	282.836	=	_____
_____	54.00	_____	x	227.807	=	_____
_____	55.00	_____	x	159.364	=	_____
_____	56.00	_____	x	123.429	=	_____
_____	56.50	_____	x	84.156	=	_____
_____	57.00	_____	x	64.091	=	_____
_____	57.25	_____	x	43.195	=	_____
_____	57.50	_____	x	43.567	=	_____
_____	57.75	_____	x	43.938	=	_____
_____	58.00	_____	x	66.607	=	_____
_____					TOTAL	_____

TOTAL_____ ÷ 5467.94 = MEAN VEL_____

59.00

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REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 160.430 =	_____
_____	0.25	_____	x 44.947 =	_____
_____	0.50	_____	x 44.548 =	_____
_____	0.75	_____	x 44.148 =	_____
_____	1.00	_____	x 65.477 =	_____
_____	1.50	_____	x 85.903 =	_____
_____	2.00	_____	x 125.875 =	_____
_____	3.00	_____	x 162.245 =	_____
_____	4.00	_____	x 231.470 =	_____
_____	6.00	_____	x 286.346 =	_____
_____	8.00	_____	x 260.994 =	_____
_____	10.00	_____	x 235.701 =	_____
_____	12.00	_____	x 210.470 =	_____
_____	14.00	_____	x 185.299 =	_____
_____	16.00	_____	x 160.189 =	_____
_____	18.00	_____	x 135.140 =	_____
_____	20.00	_____	x 110.152 =	_____
_____	22.00	_____	x 85.225 =	_____
_____	24.00	_____	x 60.358 =	_____
_____	26.00	_____	x 35.552 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 10.855 =	_____
_____	30.00	_____	x 13.926 =	_____
_____	32.00	_____	x 38.501 =	_____
_____	34.00	_____	x 63.064 =	_____
_____	36.00	_____	x 87.566 =	_____
_____	38.00	_____	x 112.007 =	_____
_____	40.00	_____	x 136.388 =	_____
_____	42.00	_____	x 160.707 =	_____
_____	44.00	_____	x 184.966 =	_____
_____	46.00	_____	x 209.164 =	_____
_____	48.00	_____	x 233.302 =	_____
_____	50.00	_____	x 257.378 =	_____
_____	52.00	_____	x 281.394 =	_____
_____	54.00	_____	x 305.349 =	_____
_____	56.00	_____	x 244.656 =	_____
_____	57.00	_____	x 127.369 =	_____
_____	57.50	_____	x 64.944 =	_____
_____	57.75	_____	x 43.763 =	_____
_____	58.00	_____	x 44.135 =	_____
_____	58.25	_____	x 66.902 =	_____
_____		_____	TOTAL	_____

TOTAL_____ ÷ 5514.38 = MEAN VEL_____

59.25

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PIPE ID = 59.50" # OF DATA POINTS 41

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	0.00		x	161.117	=	
	0.25		x	45.143	=	
	0.50		x	44.744	=	
	0.75		x	44.345	=	
	1.00		x	65.772	=	
	1.50		x	86.296	=	
	2.00		x	126.465	=	
	3.00		x	163.032	=	
	4.00		x	232.650	=	
	6.00		x	287.921	=	
	8.00		x	262.568	=	
	10.00		x	237.275	=	
	12.00		x	212.042	=	
	14.00		x	186.870	=	
	16.00		x	161.758	=	
	18.00		x	136.707	=	
	20.00		x	111.715	=	
	22.00		x	86.784	=	
	24.00		x	61.913	=	
	26.00		x	37.103	=	

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
	28.00		x	12.353	=	
	30.00		x	12.337	=	
	32.00		x	36.967	=	
	34.00		x	61.537	=	
	36.00		x	86.046	=	
	38.00		x	110.495	=	
	40.00		x	134.883	=	
	42.00		x	159.212	=	
	44.00		x	183.480	=	
	46.00		x	207.688	=	
	48.00		x	231.835	=	
	50.00		x	255.923	=	
	52.00		x	279.950	=	
	54.00		x	303.916	=	
	56.00		x	243.591	=	
	57.00		x	126.839	=	
	57.50		x	64.679	=	
	57.75		x	43.586	=	
	58.00		x	43.959	=	
	58.25		x	44.331	=	
	58.50		x	67.196	=	
					TOTAL	

TOTAL_____ ÷ 5561.01 = MEAN VEL_____

59.50

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PIPE ID = 59.75" # OF DATA POINTS 41

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	0.00	_____	x 161.804 =	_____
_____	0.25	_____	x 45.340 =	_____
_____	0.50	_____	x 44.940 =	_____
_____	0.75	_____	x 44.541 =	_____
_____	1.00	_____	x 66.066 =	_____
_____	1.50	_____	x 86.689 =	_____
_____	2.00	_____	x 127.054 =	_____
_____	3.00	_____	x 163.818 =	_____
_____	4.00	_____	x 233.831 =	_____
_____	6.00	_____	x 289.495 =	_____
_____	8.00	_____	x 264.142 =	_____
_____	10.00	_____	x 238.848 =	_____
_____	12.00	_____	x 213.615 =	_____
_____	14.00	_____	x 188.441 =	_____
_____	16.00	_____	x 163.327 =	_____
_____	18.00	_____	x 138.273 =	_____
_____	20.00	_____	x 113.279 =	_____
_____	22.00	_____	x 88.344 =	_____
_____	24.00	_____	x 63.469 =	_____
_____	26.00	_____	x 38.654 =	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)	WEIGHT CONSTANT	WEIGHTED VELOCITY
_____	28.00	_____	x 13.947 =	_____
_____	30.00	_____	x 10.845 =	_____
_____	32.00	_____	x 35.433 =	_____
_____	34.00	_____	x 60.009 =	_____
_____	36.00	_____	x 84.525 =	_____
_____	38.00	_____	x 108.982 =	_____
_____	40.00	_____	x 133.378 =	_____
_____	42.00	_____	x 157.715 =	_____
_____	44.00	_____	x 181.992 =	_____
_____	46.00	_____	x 206.210 =	_____
_____	48.00	_____	x 230.368 =	_____
_____	50.00	_____	x 254.465 =	_____
_____	52.00	_____	x 278.504 =	_____
_____	54.00	_____	x 302.482 =	_____
_____	56.00	_____	x 242.523 =	_____
_____	57.00	_____	x 126.308 =	_____
_____	57.50	_____	x 86.075 =	_____
_____	58.00	_____	x 65.531 =	_____
_____	58.25	_____	x 44.155 =	_____
_____	58.50	_____	x 44.527 =	_____
				58.75
_____		x	67.490 =	_____
_____	TOTAL	_____		

TOTAL_____ ÷ 5607.84 = MEAN VEL_____

59.75

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PIPE ID = 60.00" # OF DATA POINTS 42

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	0.00	_____	x	162.492	=	_____
_____	0.25	_____	x	45.536	=	_____
_____	0.50	_____	x	45.137	=	_____
_____	0.75	_____	x	44.738	=	_____
_____	1.00	_____	x	66.361	=	_____
_____	1.50	_____	x	87.082	=	_____
_____	2.00	_____	x	127.644	=	_____
_____	3.00	_____	x	164.605	=	_____
_____	4.00	_____	x	235.011	=	_____
_____	6.00	_____	x	291.069	=	_____
_____	8.00	_____	x	265.716	=	_____
_____	10.00	_____	x	240.422	=	_____
_____	12.00	_____	x	215.187	=	_____
_____	14.00	_____	x	190.012	=	_____
_____	16.00	_____	x	164.896	=	_____
_____	18.00	_____	x	139.839	=	_____
_____	20.00	_____	x	114.842	=	_____
_____	22.00	_____	x	89.904	=	_____
_____	24.00	_____	x	65.025	=	_____
_____	26.00	_____	x	40.205	=	_____

REF (RD) DISTANCE	SENSOR LOCATION	MEASURED VELOCITY (FPS)		WEIGHT CONSTANT		WEIGHTED VELOCITY
_____	28.00	_____	x	15.638	=	_____
_____	30.00	_____	x	9.449	=	_____
_____	32.00	_____	x	33.898	=	_____
_____	34.00	_____	x	58.480	=	_____
_____	36.00	_____	x	83.004	=	_____
_____	38.00	_____	x	107.467	=	_____
_____	40.00	_____	x	131.872	=	_____
_____	42.00	_____	x	156.218	=	_____
_____	44.00	_____	x	180.504	=	_____
_____	46.00	_____	x	204.731	=	_____
_____	48.00	_____	x	228.898	=	_____
_____	50.00	_____	x	253.007	=	_____
_____	52.00	_____	x	277.056	=	_____
_____	54.00	_____	x	301.046	=	_____
_____	56.00	_____	x	241.454	=	_____
_____	57.00	_____	x	125.776	=	_____
_____	57.50	_____	x	85.721	=	_____
_____	58.00	_____	x	65.267	=	_____
_____	58.25	_____	x	43.978	=	_____
_____	58.50	_____	x	44.351	=	_____
_____	58.75	_____	x	44.723	=	_____
_____	59.00	_____	x	67.785	=	_____
						TOTAL ____

60.00

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