

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P456546

Luminaire Tested: **GLAN-SA7D-750-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-750-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55592 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

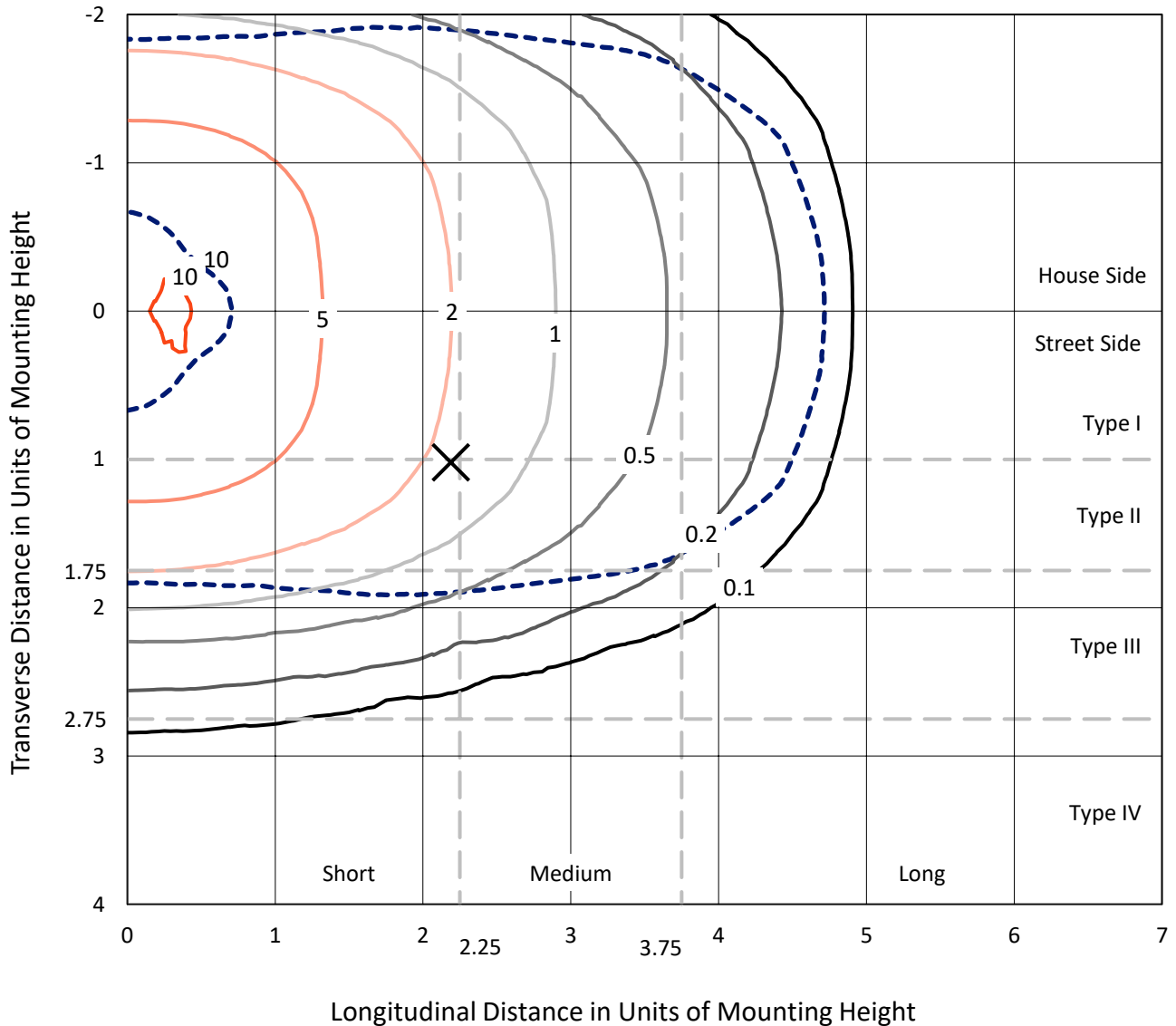
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

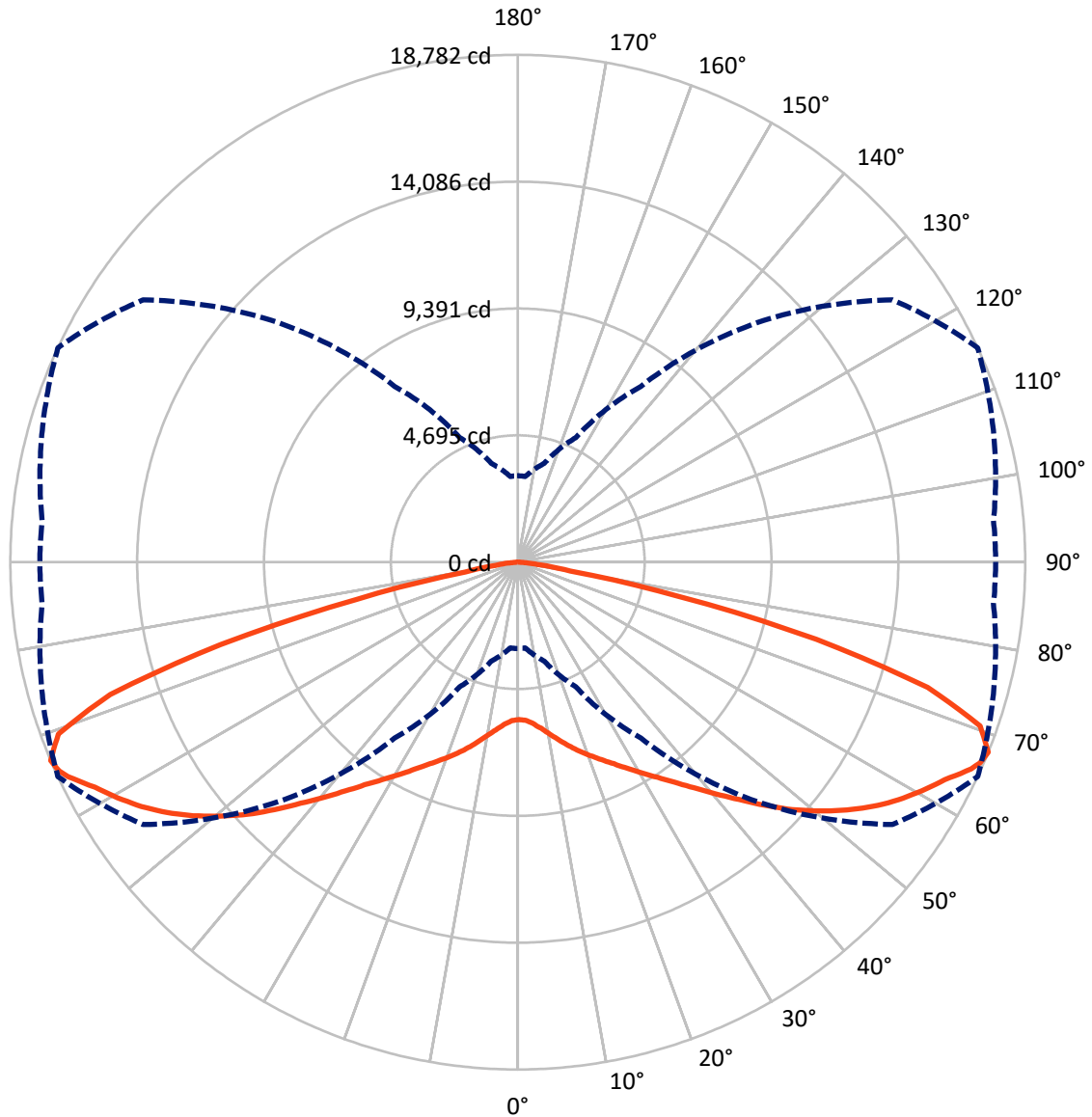
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 27796.0 | 0.0 | 27796.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 27796.0 | 0.0 | 27796.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 55592.0 | 0.0 | 55592.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 574.3 | 1.0 |
| 10°-20° | 1922.1 | 3.5 |
| 20°-30° | 3759.7 | 6.8 |
| 30°-40° | 6394.8 | 11.5 |
| 40°-50° | 10121.0 | 18.2 |
| 50°-60° | 13420.2 | 24.1 |
| 60°-70° | 12659.4 | 22.8 |
| 70°-80° | 6258.2 | 11.3 |
| 80°-90° | 482.3 | 0.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 55592.0 | 100.0 |
| 0°-180° | 55592.0 | 100.0 |

Coefficient of Utilization



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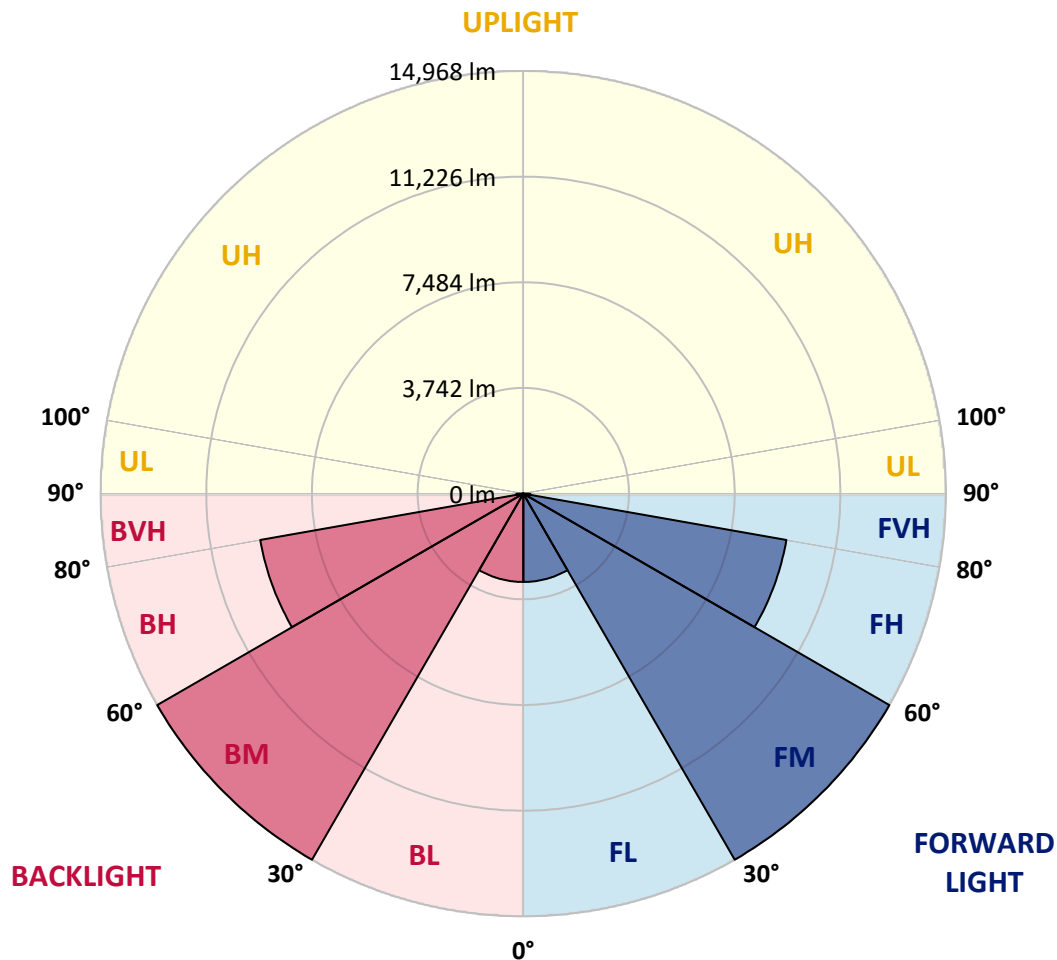
CATALOG NUMBER: GLAN-SA7D-750-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3128.0 | 5.6 | | | |
| FM | (30°-60°) | 14968.0 | 26.9 | | | |
| FH | (60°-80°) | 9458.8 | 17.0 | | | G4/12000 |
| FVH | (80°-90°) | 241.2 | 0.4 | | | G3/500 |
| BL | (0°-30°) | 3128.0 | 5.6 | B4/5000 | | |
| BM | (30°-60°) | 14968.0 | 26.9 | B5 | | |
| BH | (60°-80°) | 9458.8 | 17.0 | B5 | | G5 |
| BVH | (80°-90°) | 241.2 | 0.4 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5822.8 | 5822.8 | 5822.8 | 5822.8 | 5822.8 | 5822.8 | 5822.8 | 5822.8 | 5822.8 | 5822.8 | 5822.8 |
| 2.5° | 5793.0 | 5798.9 | 5804.9 | 5813.8 | 5825.7 | 5843.6 | 5855.5 | 5864.5 | 5888.3 | 5891.3 | 5888.3 |
| 5° | 5772.1 | 5778.1 | 5793.0 | 5819.8 | 5858.5 | 5912.1 | 5953.8 | 6004.5 | 6043.2 | 6070.0 | 6064.0 |
| 7.5° | 5769.2 | 5781.1 | 5804.9 | 5861.5 | 5936.0 | 6028.3 | 6123.6 | 6210.0 | 6284.4 | 6344.0 | 6335.1 |
| 10° | 5816.8 | 5831.7 | 5870.4 | 5953.8 | 6070.0 | 6204.0 | 6338.0 | 6466.1 | 6573.3 | 6650.8 | 6677.6 |
| 12.5° | 5897.2 | 5909.1 | 5980.6 | 6105.7 | 6272.5 | 6439.3 | 6591.2 | 6749.1 | 6898.0 | 7029.0 | 7029.0 |
| 15° | 6037.2 | 6058.1 | 6147.4 | 6329.1 | 6534.6 | 6728.2 | 6883.1 | 7049.9 | 7210.7 | 7359.6 | 7404.3 |
| 17.5° | 6230.8 | 6260.6 | 6394.6 | 6626.9 | 6889.0 | 7067.7 | 7213.7 | 7350.7 | 7490.7 | 7633.6 | 7654.5 |
| 20° | 6495.9 | 6525.7 | 6704.4 | 6984.3 | 7294.1 | 7508.5 | 7606.8 | 7639.6 | 7708.1 | 7845.1 | 7863.0 |
| 22.5° | 6856.3 | 6886.1 | 7085.6 | 7401.3 | 7746.8 | 7979.1 | 8020.8 | 7943.4 | 7925.5 | 8032.7 | 8044.7 |
| 25° | 7264.3 | 7291.1 | 7520.5 | 7860.0 | 8217.4 | 8470.6 | 8458.7 | 8268.0 | 8160.8 | 8226.3 | 8244.2 |
| 27.5° | 7723.0 | 7761.7 | 7994.0 | 8345.5 | 8732.7 | 8956.0 | 8920.3 | 8643.3 | 8414.0 | 8402.1 | 8408.0 |
| 30° | 8309.7 | 8351.4 | 8571.8 | 8908.4 | 9289.6 | 9495.1 | 9420.7 | 9048.4 | 8693.9 | 8574.8 | 8574.8 |
| 32.5° | 8929.2 | 9033.5 | 9256.9 | 9608.3 | 9906.2 | 10055.1 | 9941.9 | 9495.1 | 9024.6 | 8857.8 | 8848.8 |
| 35° | 9736.4 | 9793.0 | 10013.4 | 10355.9 | 10579.3 | 10695.4 | 10478.0 | 9998.5 | 9456.4 | 9259.8 | 9233.0 |
| 37.5° | 10525.7 | 10573.3 | 10829.5 | 11157.1 | 11428.1 | 11422.2 | 11127.3 | 10597.1 | 9992.5 | 9772.1 | 9754.3 |
| 40° | 11332.8 | 11383.4 | 11675.3 | 11976.1 | 12247.2 | 12223.4 | 11865.9 | 11273.2 | 10629.9 | 10382.7 | 10430.4 |
| 42.5° | 12032.7 | 12089.3 | 12419.9 | 12848.8 | 13093.0 | 13087.1 | 12673.1 | 12005.9 | 11335.8 | 11115.4 | 11157.1 |
| 45° | 12670.1 | 12720.7 | 13105.0 | 13596.4 | 13953.8 | 13998.5 | 13545.8 | 12839.9 | 12151.9 | 11868.9 | 11880.8 |
| 47.5° | 13119.9 | 13215.2 | 13617.2 | 14180.2 | 14665.6 | 14823.5 | 14379.7 | 13688.7 | 12896.5 | 12601.6 | 12619.5 |
| 50° | 13462.4 | 13521.9 | 13959.8 | 14600.1 | 15213.7 | 15541.3 | 15183.9 | 14475.0 | 13641.1 | 13328.3 | 13370.0 |
| 52.5° | 13504.1 | 13575.5 | 14052.1 | 14790.7 | 15577.0 | 16074.4 | 15898.7 | 15243.5 | 14400.6 | 14078.9 | 14168.2 |
| 55° | 13164.5 | 13206.2 | 13775.1 | 14671.6 | 15720.0 | 16470.6 | 16515.2 | 15958.3 | 15124.3 | 14880.1 | 14939.7 |
| 57.5° | 12196.5 | 12303.8 | 13024.5 | 14114.6 | 15523.4 | 16682.0 | 16976.9 | 16607.6 | 15857.0 | 15615.8 | 15711.1 |
| 60° | 10609.1 | 10716.3 | 11440.0 | 12822.0 | 14781.8 | 16583.7 | 17358.1 | 17182.4 | 16521.2 | 16327.6 | 16378.2 |
| 62.5° | 8312.7 | 8303.8 | 9200.3 | 10895.0 | 13307.5 | 16101.2 | 17641.1 | 17736.4 | 17176.4 | 16932.2 | 17009.6 |
| 65° | 5387.9 | 5414.7 | 6281.4 | 8107.2 | 11082.6 | 14874.1 | 17703.6 | 18442.3 | 17819.8 | 17450.4 | 17507.0 |
| 66° | 4333.6 | 4414.0 | 5149.7 | 6832.4 | 9947.9 | 14070.0 | 17516.0 | 18650.7 | 18016.3 | 17569.6 | 17596.4 |
| 67.5° | 3198.8 | 3183.9 | 3788.5 | 5087.1 | 7943.4 | 12542.0 | 16929.2 | 18781.8 | 18239.7 | 17676.8 | 17688.7 |
| 70° | 1825.8 | 1822.8 | 2037.2 | 2793.7 | 4670.1 | 8831.0 | 14269.5 | 18153.3 | 18692.4 | 18064.0 | 18031.2 |
| 72.5° | 1334.3 | 1325.4 | 1355.2 | 1542.8 | 2278.5 | 4458.7 | 9843.6 | 15865.9 | 18460.1 | 18001.4 | 17909.1 |
| 75° | 1119.9 | 1113.9 | 1108.0 | 1131.8 | 1277.7 | 2019.4 | 5224.1 | 11413.2 | 16017.8 | 16896.5 | 16801.2 |
| 77.5° | 914.4 | 914.4 | 917.3 | 911.4 | 917.3 | 1063.3 | 2165.3 | 6117.6 | 9754.3 | 10889.0 | 11154.1 |
| 80° | 714.8 | 711.8 | 762.5 | 741.6 | 694.0 | 682.1 | 959.0 | 1968.7 | 3237.5 | 3219.7 | 2656.7 |
| 82.5° | 527.2 | 491.4 | 580.8 | 565.9 | 512.3 | 434.8 | 559.9 | 839.9 | 1081.2 | 702.9 | 521.2 |
| 85° | 333.6 | 330.6 | 411.0 | 375.3 | 312.7 | 205.5 | 268.1 | 360.4 | 446.8 | 271.0 | 220.4 |
| 87.5° | 59.6 | 56.6 | 131.0 | 95.3 | 95.3 | 59.6 | 74.5 | 98.3 | 145.9 | 101.3 | 74.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)