

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: McGRAW-EDISON

Report Number: P459069

Luminaire Tested: **GALN-SA5D-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459069
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: McGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37234 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

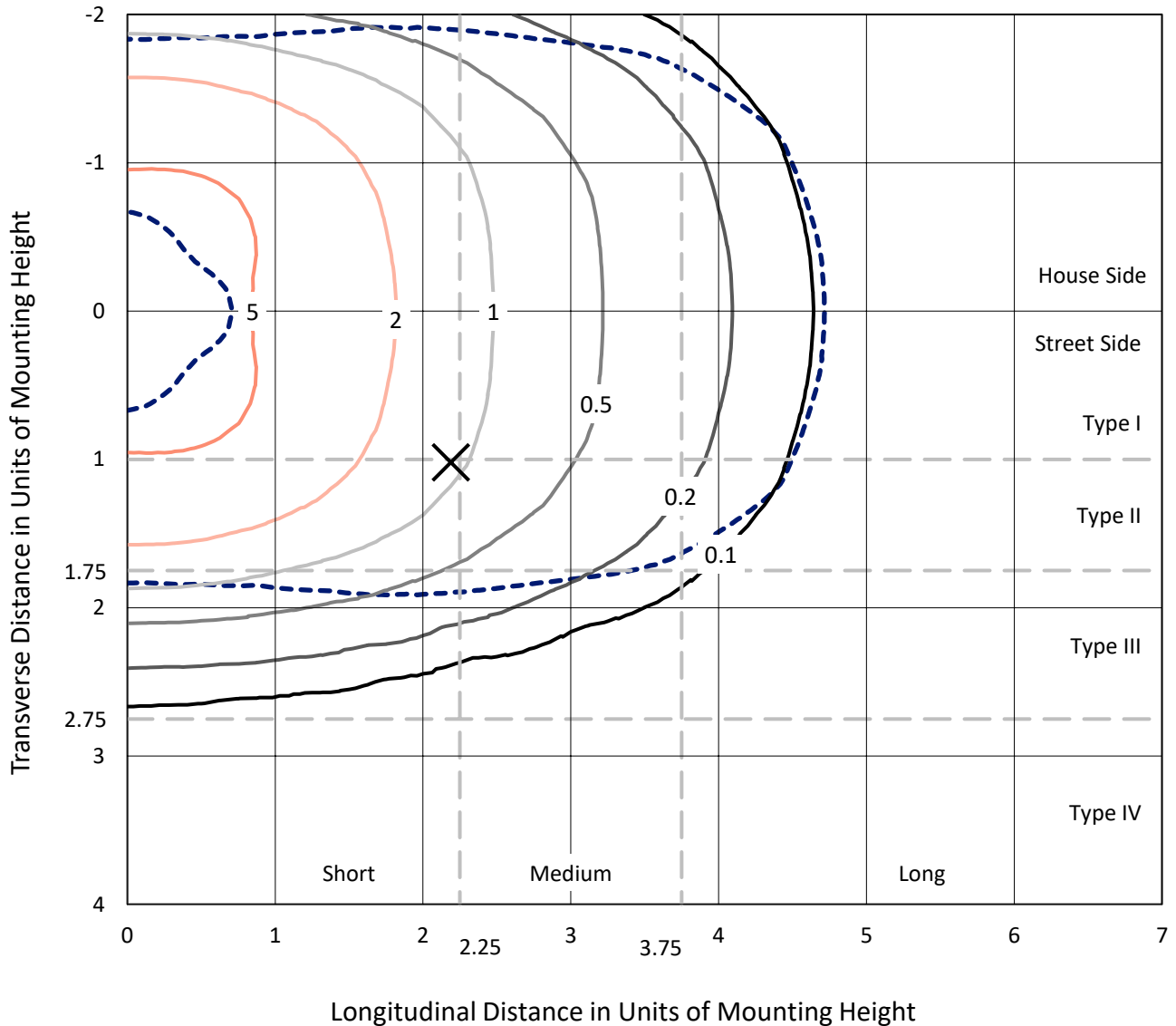
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

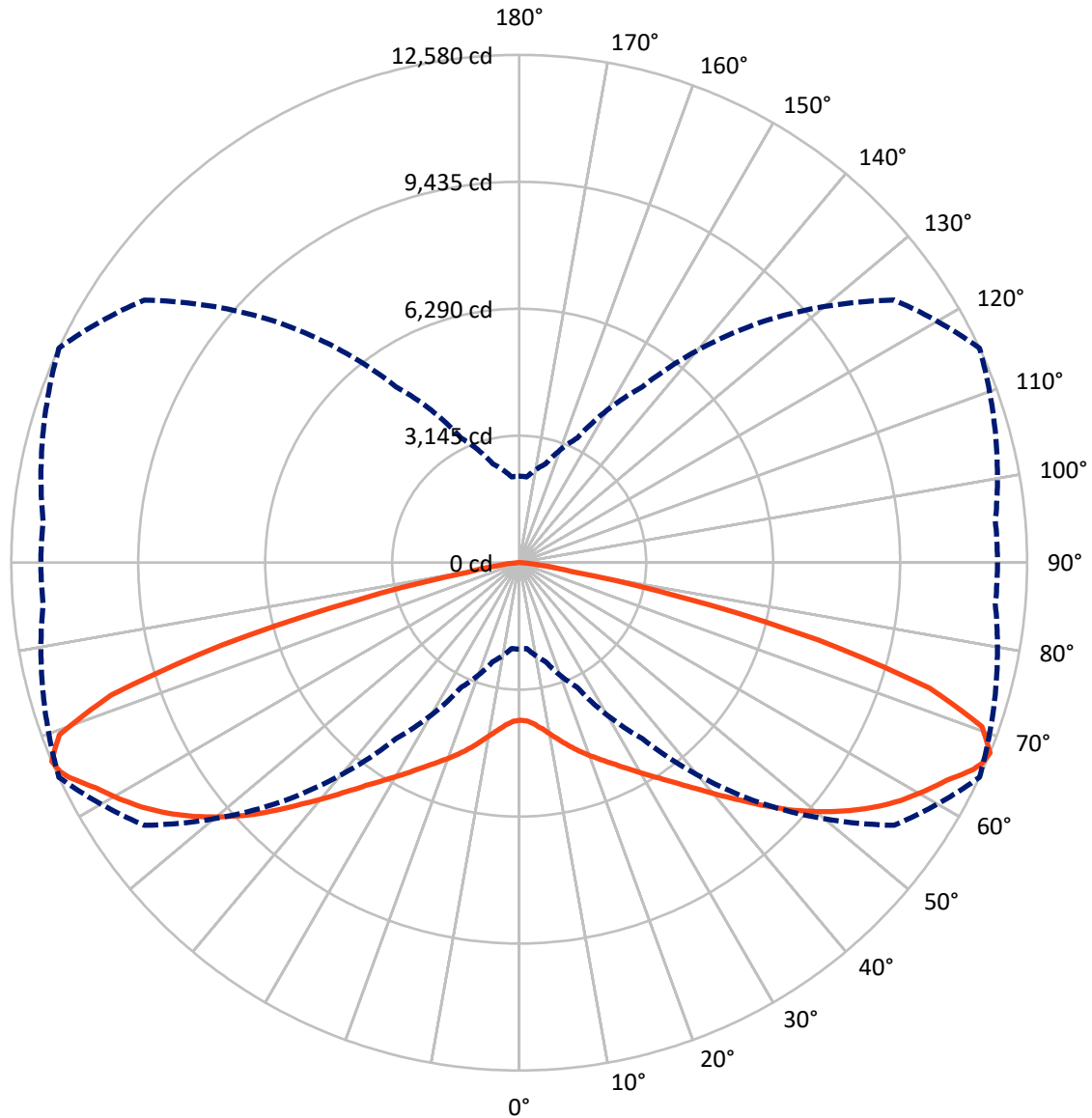
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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 | 18617.0 | 0.0 | 18617.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18617.0 | 0.0 | 18617.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 37234.0 | 0.0 | 37234.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 384.6 | 1.0 |
| 10°-20° | 1287.4 | 3.5 |
| 20°-30° | 2518.2 | 6.8 |
| 30°-40° | 4283.0 | 11.5 |
| 40°-50° | 6778.8 | 18.2 |
| 50°-60° | 8988.5 | 24.1 |
| 60°-70° | 8478.9 | 22.8 |
| 70°-80° | 4191.6 | 11.3 |
| 80°-90° | 323.0 | 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° | 37234.0 | 100.0 |
| 0°-180° | 37234.0 | 100.0 |



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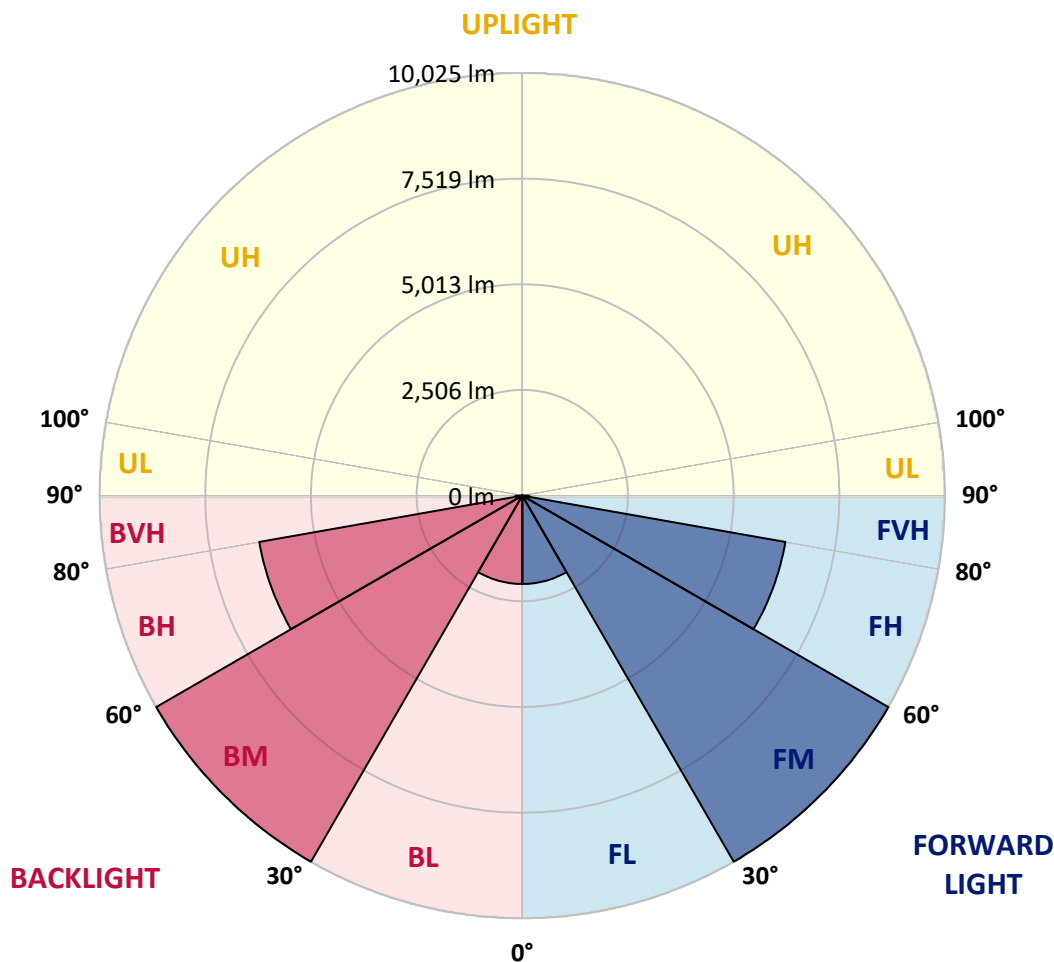
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2095.1 | 5.6 | | | |
| FM | (30°-60°) | 10025.2 | 26.9 | | | |
| FH | (60°-80°) | 6335.3 | 17.0 | | | G3/7500 |
| FVH | (80°-90°) | 161.5 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 2095.1 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 10025.2 | 26.9 | B5 | | |
| BH | (60°-80°) | 6335.3 | 17.0 | B5 | | G5 |
| BVH | (80°-90°) | 161.5 | 0.4 | | | G2/225 |
| 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° | 3899.9 | 3899.9 | 3899.9 | 3899.9 | 3899.9 | 3899.9 | 3899.9 | 3899.9 | 3899.9 | 3899.9 | 3899.9 |
| 2.5° | 3880.0 | 3884.0 | 3888.0 | 3893.9 | 3901.9 | 3913.9 | 3921.9 | 3927.9 | 3943.8 | 3945.8 | 3943.8 |
| 5° | 3866.0 | 3870.0 | 3880.0 | 3897.9 | 3923.9 | 3959.8 | 3987.7 | 4021.6 | 4047.6 | 4065.5 | 4061.5 |
| 7.5° | 3864.0 | 3872.0 | 3888.0 | 3925.9 | 3975.7 | 4037.6 | 4101.4 | 4159.3 | 4209.1 | 4249.0 | 4243.0 |
| 10° | 3895.9 | 3905.9 | 3931.9 | 3987.7 | 4065.5 | 4155.3 | 4245.0 | 4330.8 | 4402.6 | 4454.5 | 4472.5 |
| 12.5° | 3949.8 | 3957.8 | 4005.7 | 4089.4 | 4201.2 | 4312.9 | 4414.6 | 4520.3 | 4620.1 | 4707.8 | 4707.8 |
| 15° | 4043.6 | 4057.5 | 4117.4 | 4239.1 | 4376.7 | 4506.4 | 4610.1 | 4721.8 | 4829.5 | 4929.3 | 4959.2 |
| 17.5° | 4173.2 | 4193.2 | 4282.9 | 4438.5 | 4614.1 | 4733.8 | 4831.5 | 4923.3 | 5017.0 | 5112.8 | 5126.8 |
| 20° | 4350.8 | 4370.7 | 4490.4 | 4677.9 | 4885.4 | 5029.0 | 5094.8 | 5116.8 | 5162.7 | 5254.4 | 5266.4 |
| 22.5° | 4592.1 | 4612.1 | 4745.7 | 4957.2 | 5188.6 | 5344.2 | 5372.1 | 5320.3 | 5308.3 | 5380.1 | 5388.1 |
| 25° | 4865.4 | 4883.4 | 5037.0 | 5264.4 | 5503.8 | 5673.4 | 5665.4 | 5537.7 | 5465.9 | 5509.8 | 5521.7 |
| 27.5° | 5172.6 | 5198.6 | 5354.2 | 5589.6 | 5848.9 | 5998.5 | 5974.6 | 5789.1 | 5635.5 | 5627.5 | 5631.5 |
| 30° | 5565.6 | 5593.6 | 5741.2 | 5966.6 | 6221.9 | 6359.6 | 6309.7 | 6060.4 | 5823.0 | 5743.2 | 5743.2 |
| 32.5° | 5980.6 | 6050.4 | 6200.0 | 6435.4 | 6634.9 | 6734.6 | 6658.8 | 6359.6 | 6044.4 | 5932.7 | 5926.7 |
| 35° | 6521.2 | 6559.1 | 6706.7 | 6936.1 | 7085.7 | 7163.5 | 7017.9 | 6696.7 | 6333.7 | 6202.0 | 6184.0 |
| 37.5° | 7049.8 | 7081.7 | 7253.3 | 7472.7 | 7654.2 | 7650.3 | 7452.8 | 7097.7 | 6692.7 | 6545.1 | 6533.1 |
| 40° | 7590.4 | 7624.3 | 7819.8 | 8021.3 | 8202.8 | 8186.9 | 7947.5 | 7550.5 | 7119.6 | 6954.0 | 6986.0 |
| 42.5° | 8059.2 | 8097.1 | 8318.5 | 8605.8 | 8769.4 | 8765.4 | 8488.1 | 8041.2 | 7592.4 | 7444.8 | 7472.7 |
| 45° | 8486.1 | 8520.0 | 8777.3 | 9106.5 | 9345.9 | 9375.8 | 9072.6 | 8599.8 | 8139.0 | 7949.5 | 7957.5 |
| 47.5° | 8787.3 | 8851.2 | 9120.5 | 9497.5 | 9822.6 | 9928.4 | 9631.1 | 9168.3 | 8637.7 | 8440.2 | 8452.2 |
| 50° | 9016.7 | 9056.6 | 9349.9 | 9778.8 | 10189.7 | 10409.1 | 10169.7 | 9695.0 | 9136.4 | 8927.0 | 8954.9 |
| 52.5° | 9044.7 | 9092.5 | 9411.7 | 9906.4 | 10433.1 | 10766.2 | 10648.5 | 10209.6 | 9645.1 | 9429.7 | 9489.5 |
| 55° | 8817.2 | 8845.2 | 9226.2 | 9826.6 | 10528.8 | 11031.5 | 11061.4 | 10688.4 | 10129.9 | 9966.3 | 10006.2 |
| 57.5° | 8168.9 | 8240.7 | 8723.5 | 9453.6 | 10397.2 | 11173.2 | 11370.6 | 11123.3 | 10620.6 | 10459.0 | 10522.8 |
| 60° | 7105.7 | 7177.5 | 7662.2 | 8587.8 | 9900.4 | 11107.3 | 11626.0 | 11508.3 | 11065.4 | 10935.8 | 10969.7 |
| 62.5° | 5567.6 | 5561.6 | 6162.1 | 7297.2 | 8913.0 | 10784.2 | 11815.5 | 11879.3 | 11504.3 | 11340.7 | 11392.6 |
| 65° | 3608.7 | 3626.6 | 4207.1 | 5430.0 | 7422.8 | 9962.3 | 11857.4 | 12352.1 | 11935.2 | 11687.8 | 11725.7 |
| 66° | 2902.5 | 2956.4 | 3449.1 | 4576.2 | 6662.8 | 9423.7 | 11731.7 | 12491.8 | 12066.9 | 11767.6 | 11785.6 |
| 67.5° | 2142.5 | 2132.5 | 2537.5 | 3407.2 | 5320.3 | 8400.3 | 11338.7 | 12579.5 | 12216.5 | 11839.4 | 11847.4 |
| 70° | 1222.8 | 1220.8 | 1364.5 | 1871.2 | 3127.9 | 5914.7 | 9557.3 | 12158.6 | 12519.7 | 12098.8 | 12076.8 |
| 72.5° | 893.7 | 887.7 | 907.7 | 1033.3 | 1526.1 | 2986.3 | 6593.0 | 10626.6 | 12364.1 | 12056.9 | 11995.0 |
| 75° | 750.1 | 746.1 | 742.1 | 758.0 | 855.8 | 1352.5 | 3499.0 | 7644.3 | 10728.3 | 11316.8 | 11253.0 |
| 77.5° | 612.4 | 612.4 | 614.4 | 610.4 | 614.4 | 712.2 | 1450.3 | 4097.4 | 6533.1 | 7293.2 | 7470.7 |
| 80° | 478.8 | 476.8 | 510.7 | 496.7 | 464.8 | 456.8 | 642.3 | 1318.6 | 2168.4 | 2156.4 | 1779.4 |
| 82.5° | 353.1 | 329.2 | 389.0 | 379.0 | 343.1 | 291.2 | 375.0 | 562.5 | 724.1 | 470.8 | 349.1 |
| 85° | 223.4 | 221.4 | 275.3 | 251.4 | 209.5 | 137.6 | 179.5 | 241.4 | 299.2 | 181.5 | 147.6 |
| 87.5° | 39.9 | 37.9 | 87.8 | 63.8 | 63.8 | 39.9 | 49.9 | 65.8 | 97.7 | 67.8 | 49.9 |
| 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)