

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: P648464

Luminaire Tested: **GALN-SA6B-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23320.1 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

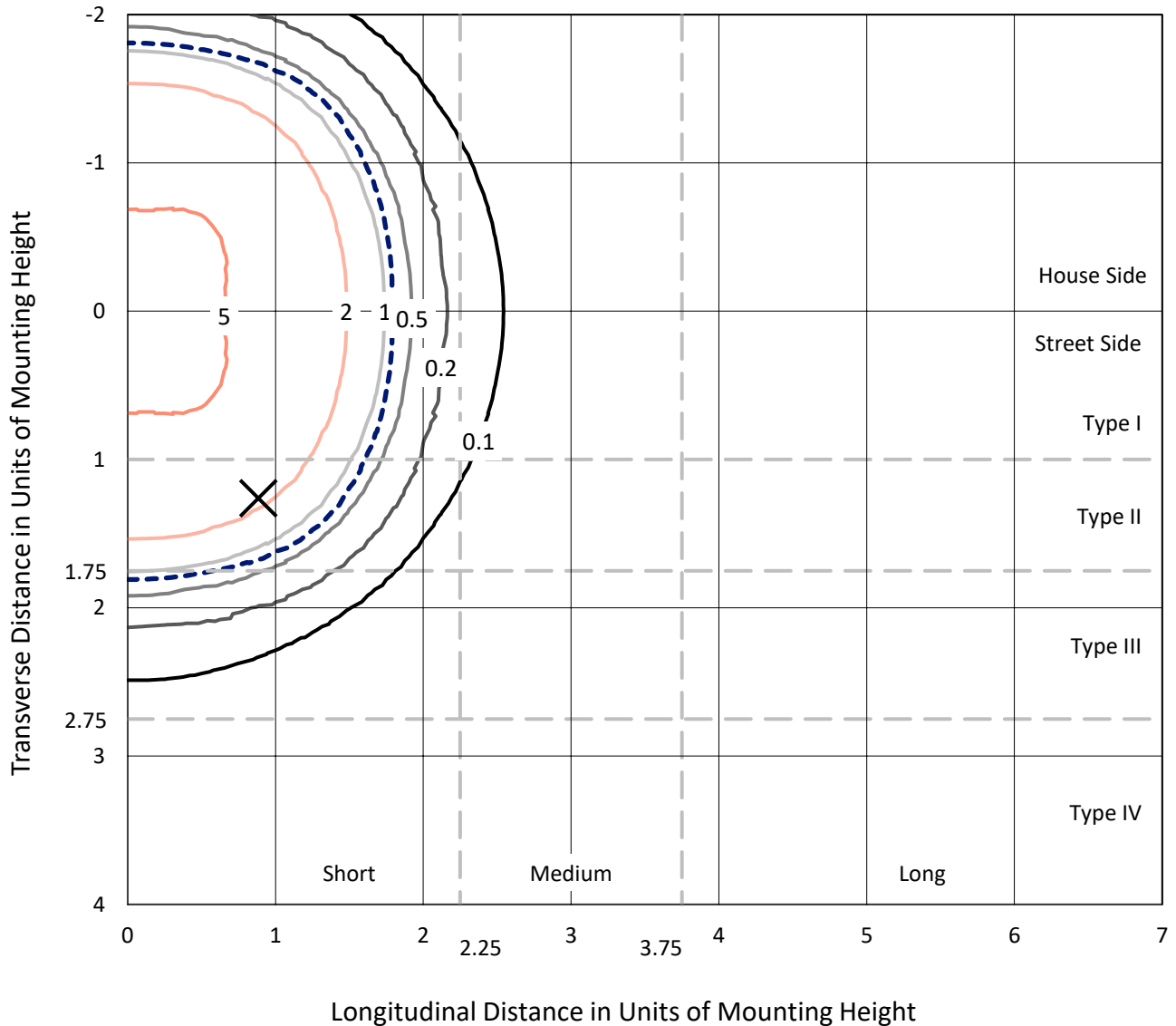
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

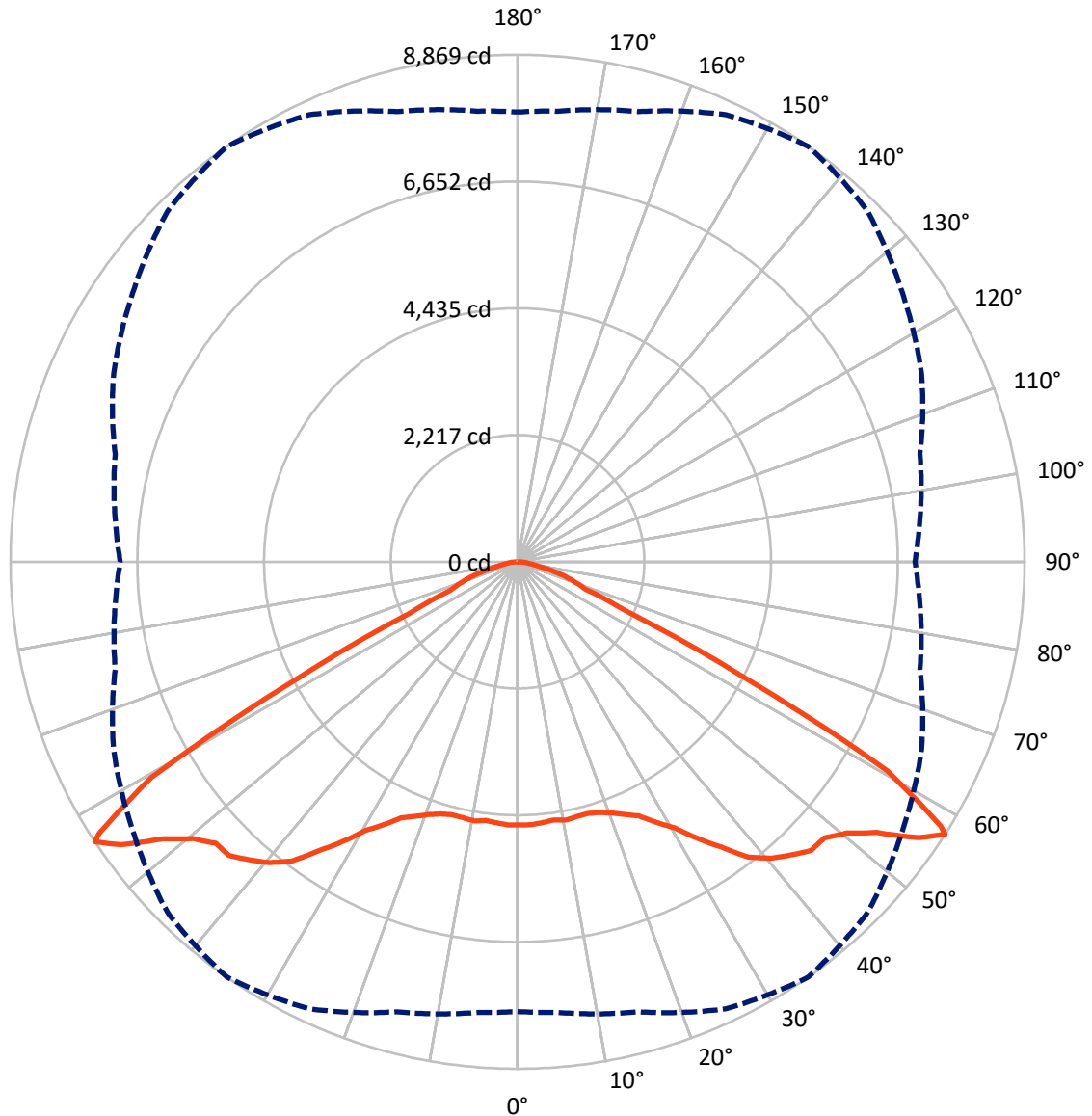
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11660.0 | 0.0 | 11660.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11660.0 | 0.0 | 11660.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23320.1 | 0.0 | 23320.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 436.6 | 1.9 |
| 10°-20° | 1293.2 | 5.5 |
| 20°-30° | 2258.5 | 9.7 |
| 30°-40° | 3700.6 | 15.9 |
| 40°-50° | 5425.9 | 23.3 |
| 50°-60° | 6834.4 | 29.3 |
| 60°-70° | 2570.3 | 11.0 |
| 70°-80° | 683.4 | 2.9 |
| 80°-90° | 117.2 | 0.5 |
| 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° | 23320.1 | 100.0 |
| 0°-180° | 23320.1 | 100.0 |

Coefficient of Utilization



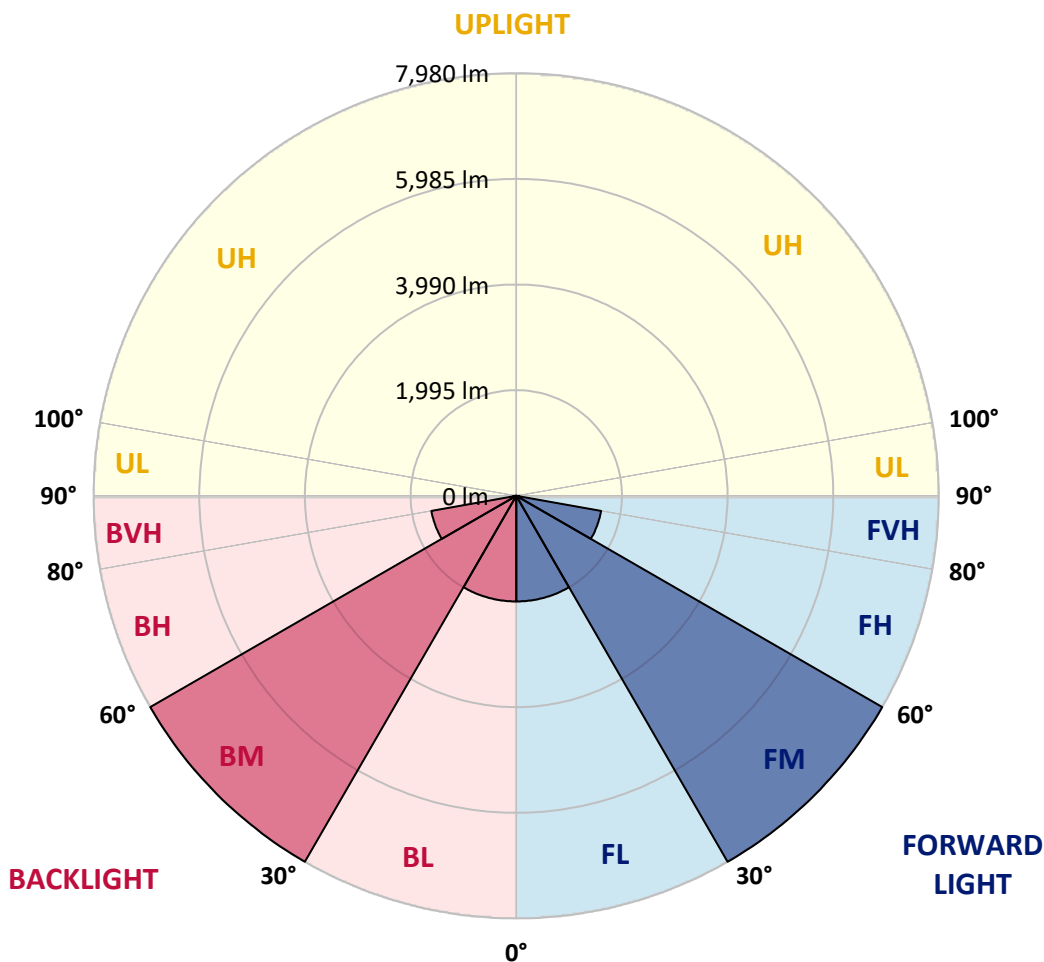
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1994.1 | 8.6 | | | |
| FM (30°-60°) | 7980.4 | 34.2 | | | |
| FH (60°-80°) | 1626.9 | 7.0 | | | G1/1800 |
| FVH (80°-90°) | 58.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1994.1 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 7980.4 | 34.2 | B4/8500 | | |
| BH (60°-80°) | 1626.9 | 7.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 58.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4605.5 | 4605.5 | 4605.5 | 4605.5 | 4605.5 | 4605.5 | 4605.5 | 4605.5 | 4605.5 | 4605.5 | 4605.5 |
| 2.5° | 4582.6 | 4628.5 | 4608.4 | 4596.9 | 4605.5 | 4591.2 | 4568.2 | 4594.0 | 4588.3 | 4565.4 | 4556.7 |
| 5° | 4571.1 | 4605.5 | 4582.6 | 4605.5 | 4582.6 | 4622.8 | 4611.3 | 4568.2 | 4619.9 | 4571.1 | 4588.3 |
| 7.5° | 4562.5 | 4574.0 | 4579.7 | 4568.2 | 4559.6 | 4608.4 | 4582.6 | 4562.5 | 4533.7 | 4525.1 | 4539.4 |
| 10° | 4542.3 | 4571.1 | 4528.0 | 4585.4 | 4596.9 | 4562.5 | 4562.5 | 4525.1 | 4502.1 | 4487.8 | 4536.6 |
| 12.5° | 4594.0 | 4545.2 | 4539.4 | 4568.2 | 4576.8 | 4591.2 | 4551.0 | 4530.8 | 4487.8 | 4493.5 | 4484.9 |
| 15° | 4533.7 | 4553.8 | 4556.7 | 4562.5 | 4571.1 | 4605.5 | 4568.2 | 4525.1 | 4507.9 | 4447.5 | 4453.2 |
| 17.5° | 4556.7 | 4536.6 | 4556.7 | 4622.8 | 4611.3 | 4637.2 | 4596.9 | 4530.8 | 4490.7 | 4456.1 | 4502.1 |
| 20° | 4596.9 | 4588.3 | 4596.9 | 4677.4 | 4691.7 | 4714.8 | 4680.2 | 4619.9 | 4542.3 | 4502.1 | 4525.1 |
| 22.5° | 4640.1 | 4634.3 | 4640.1 | 4717.6 | 4800.9 | 4829.6 | 4795.2 | 4654.4 | 4614.1 | 4539.4 | 4513.6 |
| 25° | 4717.6 | 4723.4 | 4783.7 | 4869.9 | 4924.4 | 4979.0 | 4915.8 | 4815.3 | 4686.0 | 4640.1 | 4585.4 |
| 27.5° | 4890.0 | 4904.3 | 4938.9 | 5065.2 | 5160.0 | 5208.9 | 5119.8 | 4981.9 | 4901.5 | 4806.7 | 4792.3 |
| 30° | 5102.6 | 5102.6 | 5162.9 | 5272.1 | 5401.4 | 5476.1 | 5366.9 | 5203.1 | 5105.5 | 5053.7 | 5022.2 |
| 32.5° | 5384.1 | 5352.5 | 5375.5 | 5568.0 | 5769.1 | 5832.3 | 5685.8 | 5484.7 | 5329.6 | 5260.6 | 5237.6 |
| 35° | 5625.5 | 5645.6 | 5697.3 | 5904.2 | 6128.3 | 6274.8 | 6045.0 | 5783.5 | 5625.5 | 5562.3 | 5550.8 |
| 37.5° | 5938.7 | 5973.1 | 5999.0 | 6283.4 | 6553.5 | 6608.1 | 6386.9 | 6177.1 | 5984.6 | 5932.9 | 5904.2 |
| 40° | 6381.1 | 6358.1 | 6366.7 | 6576.5 | 6820.7 | 6855.2 | 6636.8 | 6487.4 | 6329.4 | 6297.8 | 6297.8 |
| 42.5° | 6746.0 | 6720.1 | 6748.8 | 6826.4 | 7013.2 | 6987.3 | 6866.7 | 6757.4 | 6691.4 | 6656.9 | 6691.4 |
| 45° | 6967.2 | 6961.5 | 7013.2 | 7070.6 | 7202.8 | 7116.6 | 7021.8 | 7039.0 | 6975.8 | 6918.4 | 6915.5 |
| 47.5° | 7208.5 | 7171.2 | 7234.5 | 7320.6 | 7220.0 | 7179.8 | 7174.1 | 7211.4 | 7191.3 | 7090.8 | 7059.1 |
| 50° | 7326.4 | 7312.0 | 7412.6 | 7513.1 | 7458.5 | 7366.5 | 7386.7 | 7447.0 | 7188.4 | 7053.4 | 6975.8 |
| 52.5° | 7642.4 | 7645.3 | 7837.8 | 7892.3 | 7869.4 | 7734.3 | 7777.5 | 7613.7 | 7309.1 | 7119.5 | 7128.1 |
| 55° | 8139.4 | 8119.3 | 8334.8 | 8495.7 | 8521.5 | 8349.1 | 8142.3 | 7912.4 | 7530.3 | 7337.8 | 7280.4 |
| 57° | 7866.5 | 7912.4 | 8151.0 | 8627.9 | 8869.2 | 8665.2 | 8214.1 | 7794.7 | 7286.1 | 7053.4 | 6950.0 |
| 57.5° | 7501.6 | 7576.3 | 7990.0 | 8469.9 | 8722.7 | 8705.4 | 8125.0 | 7576.3 | 7122.3 | 6760.3 | 6769.0 |
| 60° | 5496.2 | 5510.6 | 5884.1 | 6645.4 | 7435.5 | 7452.8 | 6746.0 | 6019.1 | 5513.4 | 5119.8 | 5174.4 |
| 62.5° | 2898.9 | 2965.0 | 3114.4 | 3726.4 | 4410.2 | 4576.8 | 4148.7 | 3775.2 | 3338.6 | 3039.7 | 3068.4 |
| 65° | 1534.2 | 1525.6 | 1597.4 | 1769.8 | 2106.0 | 2192.2 | 2134.7 | 1838.8 | 1686.5 | 1637.6 | 1640.5 |
| 67.5° | 1246.9 | 1261.3 | 1252.6 | 1261.3 | 1284.3 | 1321.6 | 1313.0 | 1324.5 | 1333.1 | 1347.5 | 1344.6 |
| 70° | 1057.3 | 1057.3 | 1063.0 | 1065.9 | 1065.9 | 1083.1 | 1103.2 | 1140.6 | 1143.5 | 1157.8 | 1163.6 |
| 72.5° | 833.2 | 827.5 | 836.1 | 856.2 | 859.0 | 873.4 | 902.2 | 925.1 | 933.7 | 933.7 | 916.5 |
| 75° | 566.0 | 571.7 | 583.3 | 600.5 | 617.7 | 643.5 | 666.6 | 680.9 | 686.7 | 678.1 | 669.5 |
| 77.5° | 318.9 | 324.6 | 333.2 | 359.2 | 379.3 | 402.2 | 428.1 | 442.5 | 456.8 | 459.7 | 442.5 |
| 80° | 189.6 | 189.6 | 204.0 | 224.1 | 247.1 | 270.1 | 293.1 | 310.3 | 316.0 | 316.0 | 307.4 |
| 82.5° | 114.9 | 117.8 | 129.3 | 149.4 | 169.5 | 183.8 | 204.0 | 218.4 | 229.8 | 227.0 | 221.2 |
| 85° | 60.4 | 60.4 | 71.8 | 89.0 | 103.4 | 117.8 | 117.8 | 109.2 | 103.4 | 89.0 | 83.3 |
| 87.5° | 20.1 | 17.2 | 23.0 | 23.0 | 20.1 | 23.0 | 23.0 | 25.8 | 25.8 | 25.8 | 25.8 |
| 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)