

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: P530254

Luminaire Tested: **GALN-SA5C-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24980 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

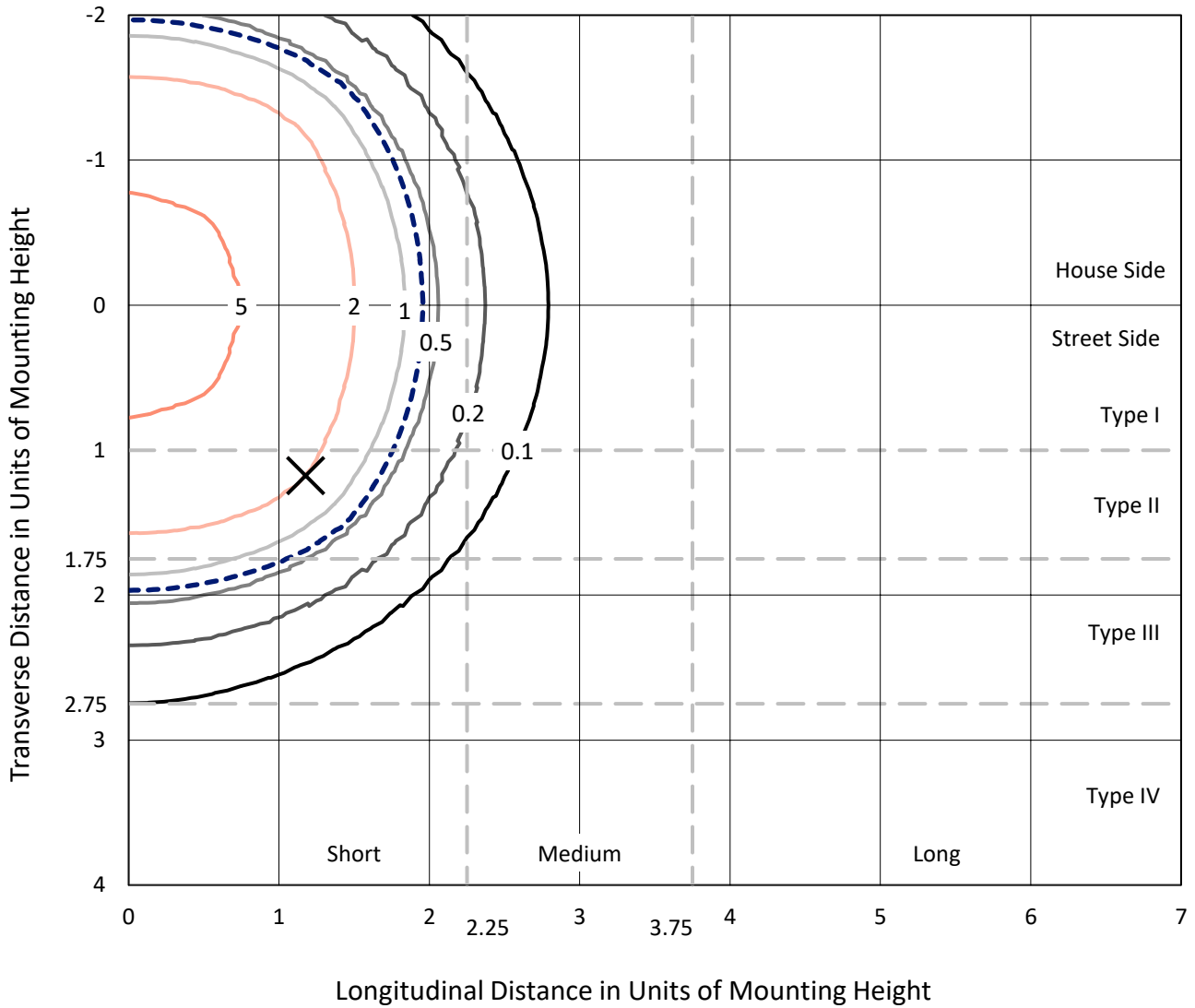
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

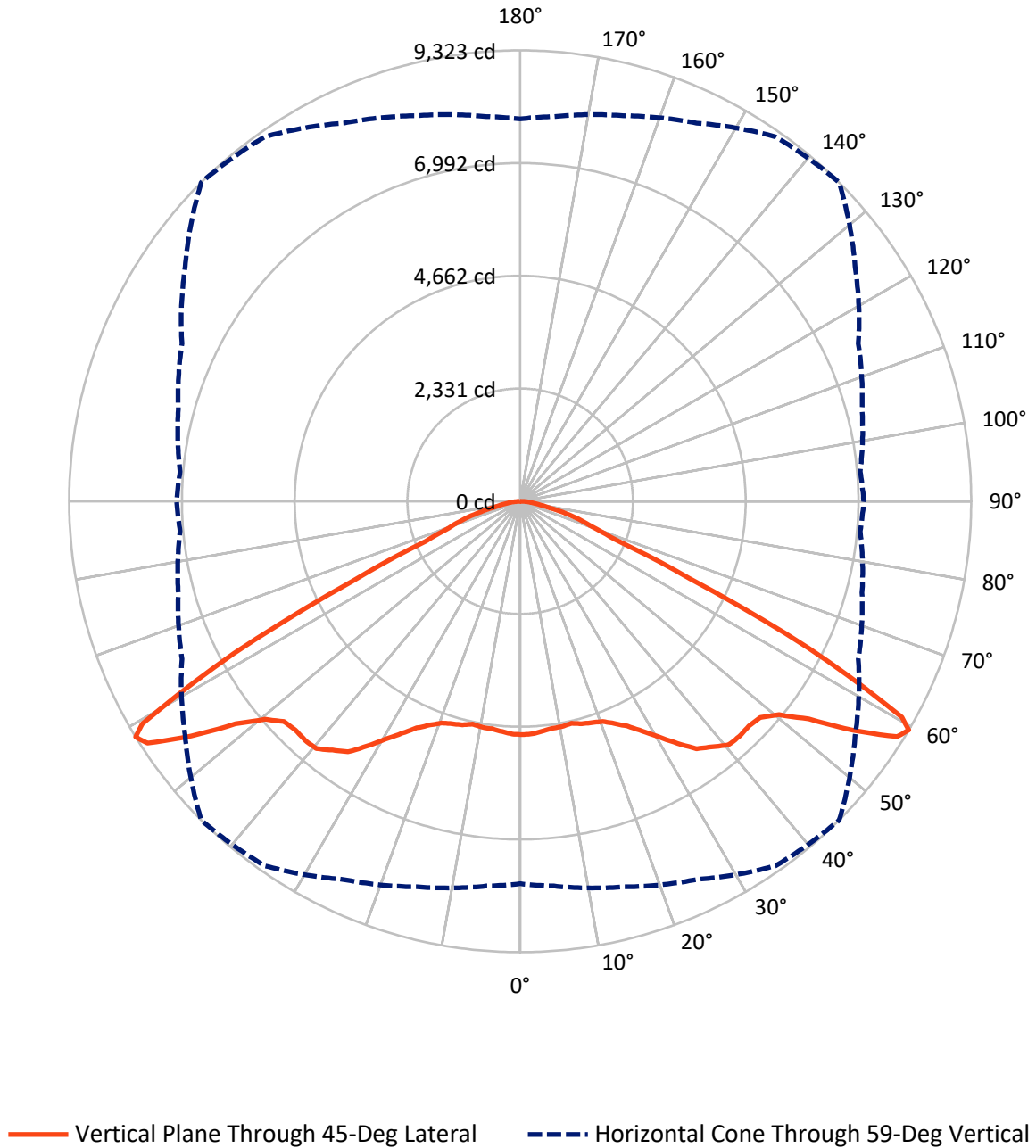
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12490.0 | 0.0 | 12490.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12490.0 | 0.0 | 12490.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 24980.0 | 0.0 | 24980.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 454.8 | 1.8 |
| 10°-20° | 1352.6 | 5.4 |
| 20°-30° | 2361.8 | 9.5 |
| 30°-40° | 3772.1 | 15.1 |
| 40°-50° | 5138.4 | 20.6 |
| 50°-60° | 6948.5 | 27.8 |
| 60°-70° | 3810.6 | 15.3 |
| 70°-80° | 974.9 | 3.9 |
| 80°-90° | 166.3 | 0.7 |
| 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° | 24980.0 | 100.0 |
| 0°-180° | 24980.0 | 100.0 |

Coefficient of Utilization

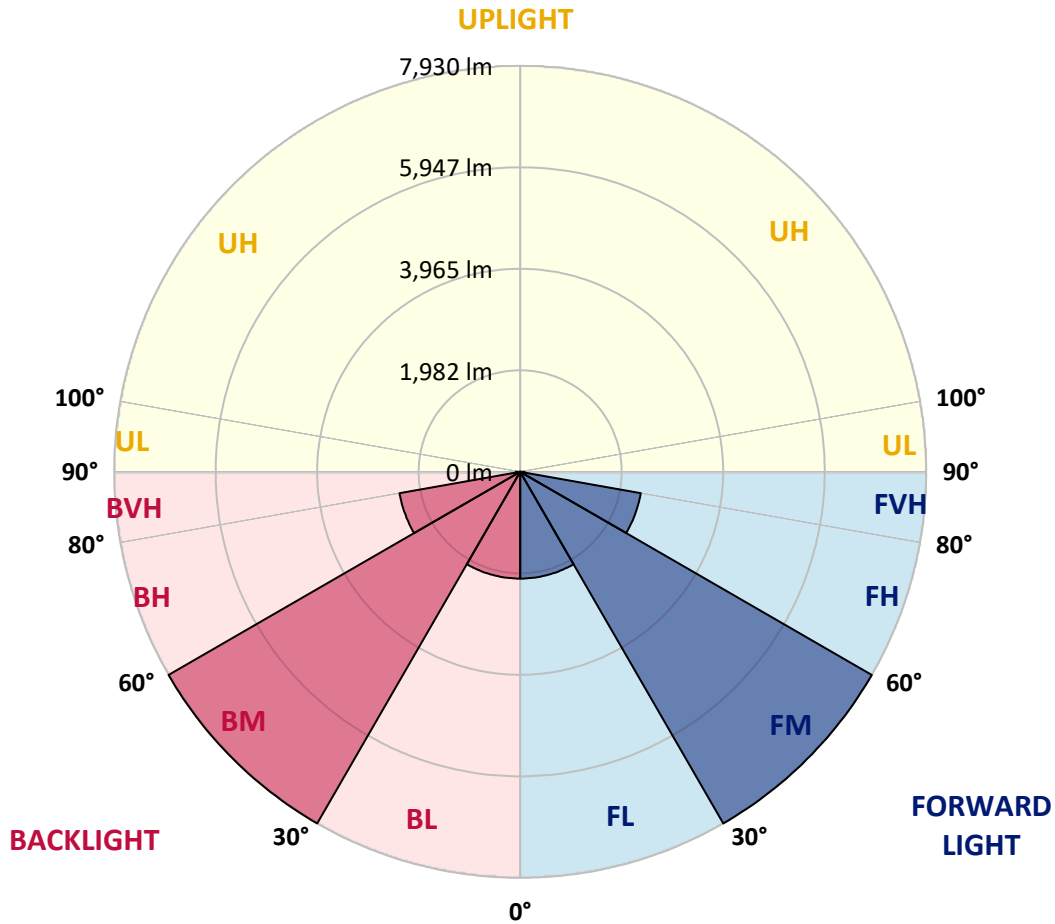


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2084.6 | 8.3 | | | |
| FM (30°-60°) | 7929.5 | 31.7 | | | |
| FH (60°-80°) | 2392.7 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 83.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2084.6 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 7929.5 | 31.7 | B4/8500 | | |
| BH (60°-80°) | 2392.7 | 9.6 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 83.1 | 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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4824.9 | 4824.9 | 4824.9 | 4824.9 | 4824.9 | 4824.9 | 4824.9 | 4824.9 | 4824.9 | 4824.9 | 4824.9 |
| 2.5° | 4796.1 | 4831.3 | 4805.7 | 4828.1 | 4824.9 | 4815.3 | 4799.3 | 4789.7 | 4776.9 | 4796.1 | 4764.1 |
| 5° | 4776.9 | 4805.7 | 4834.5 | 4796.1 | 4796.1 | 4776.9 | 4767.3 | 4748.1 | 4748.1 | 4744.9 | 4741.7 |
| 7.5° | 4808.9 | 4780.1 | 4767.3 | 4773.7 | 4780.1 | 4738.5 | 4767.3 | 4728.9 | 4696.9 | 4719.3 | 4744.9 |
| 10° | 4780.1 | 4792.9 | 4744.9 | 4767.3 | 4732.1 | 4738.5 | 4719.3 | 4744.9 | 4709.7 | 4709.7 | 4709.7 |
| 12.5° | 4808.9 | 4773.7 | 4789.7 | 4773.7 | 4764.1 | 4709.7 | 4735.3 | 4706.5 | 4703.3 | 4735.3 | 4706.5 |
| 15° | 4866.6 | 4808.9 | 4796.1 | 4764.1 | 4773.7 | 4773.7 | 4748.1 | 4751.3 | 4716.1 | 4735.3 | 4741.7 |
| 17.5° | 4847.4 | 4815.3 | 4805.7 | 4767.3 | 4799.3 | 4808.9 | 4760.9 | 4728.9 | 4751.3 | 4748.1 | 4744.9 |
| 20° | 4863.4 | 4876.2 | 4866.6 | 4873.0 | 4885.8 | 4860.2 | 4815.3 | 4770.5 | 4741.7 | 4783.3 | 4780.1 |
| 22.5° | 4965.8 | 4953.0 | 4946.6 | 4940.2 | 4962.6 | 4988.2 | 4927.4 | 4857.0 | 4857.0 | 4885.8 | 4898.6 |
| 25° | 5049.1 | 5045.9 | 5042.7 | 5071.5 | 5148.3 | 5148.3 | 5071.5 | 4981.8 | 4959.4 | 4978.6 | 4962.6 |
| 27.5° | 5170.7 | 5205.9 | 5193.1 | 5244.4 | 5356.4 | 5382.0 | 5279.6 | 5173.9 | 5113.1 | 5090.7 | 5119.5 |
| 30° | 5449.3 | 5407.6 | 5417.3 | 5471.7 | 5570.9 | 5654.2 | 5497.3 | 5385.2 | 5302.0 | 5298.8 | 5311.6 |
| 32.5° | 5635.0 | 5667.0 | 5695.8 | 5747.0 | 5903.9 | 5967.9 | 5779.0 | 5596.5 | 5545.3 | 5516.5 | 5526.1 |
| 35° | 6006.4 | 5977.5 | 5971.1 | 6022.4 | 6179.3 | 6284.9 | 6048.0 | 5887.9 | 5820.7 | 5884.7 | 5884.7 |
| 37.5° | 6358.5 | 6278.5 | 6217.7 | 6284.9 | 6429.0 | 6441.8 | 6240.1 | 6153.6 | 6118.4 | 6192.1 | 6188.9 |
| 40° | 6525.0 | 6518.6 | 6377.8 | 6416.2 | 6608.3 | 6627.5 | 6438.6 | 6336.1 | 6329.7 | 6425.8 | 6521.8 |
| 42.5° | 6697.9 | 6637.1 | 6496.2 | 6521.8 | 6640.3 | 6646.7 | 6467.4 | 6438.6 | 6509.0 | 6601.9 | 6608.3 |
| 45° | 6726.7 | 6675.5 | 6585.9 | 6521.8 | 6608.3 | 6627.5 | 6521.8 | 6541.0 | 6547.4 | 6659.5 | 6659.5 |
| 47.5° | 6784.4 | 6778.0 | 6726.7 | 6678.7 | 6694.7 | 6678.7 | 6611.5 | 6640.3 | 6736.3 | 6790.8 | 6765.2 |
| 50° | 6944.5 | 6877.2 | 6928.4 | 6886.8 | 6890.0 | 6934.9 | 6874.0 | 6902.8 | 6883.6 | 6835.6 | 6803.6 |
| 52.5° | 7296.6 | 7264.6 | 7309.5 | 7338.3 | 7370.3 | 7472.7 | 7402.3 | 7248.6 | 7104.5 | 6976.5 | 6973.3 |
| 55° | 7812.1 | 7834.5 | 7921.0 | 8068.2 | 8193.1 | 8356.4 | 8017.0 | 7648.8 | 7418.3 | 7216.6 | 7229.4 |
| 57.5° | 8298.8 | 8282.8 | 8401.2 | 8737.4 | 9102.4 | 9185.6 | 8519.7 | 7994.6 | 7620.0 | 7491.9 | 7437.5 |
| 59° | 7908.2 | 7985.0 | 8253.9 | 8628.5 | 9201.6 | 9323.3 | 8452.5 | 7712.9 | 7315.9 | 7056.5 | 7101.3 |
| 60° | 7293.4 | 7322.3 | 7562.4 | 8084.3 | 8859.1 | 9067.2 | 8001.0 | 7277.4 | 6749.2 | 6598.7 | 6665.9 |
| 62.5° | 5154.7 | 5132.3 | 5305.2 | 5731.0 | 6425.8 | 6707.5 | 5948.7 | 5439.7 | 5106.7 | 4940.2 | 4978.6 |
| 65° | 2740.6 | 2843.1 | 2913.5 | 3179.3 | 3547.5 | 3845.2 | 3531.5 | 3310.5 | 3124.8 | 2987.2 | 2984.0 |
| 67.5° | 1850.6 | 1837.8 | 1853.8 | 1914.6 | 2039.5 | 2122.7 | 2116.3 | 2004.3 | 1988.2 | 1962.6 | 1991.4 |
| 70° | 1559.2 | 1552.8 | 1524.0 | 1524.0 | 1549.6 | 1568.8 | 1591.2 | 1604.0 | 1629.7 | 1661.7 | 1658.5 |
| 72.5° | 1264.7 | 1248.7 | 1229.4 | 1219.8 | 1251.9 | 1261.5 | 1290.3 | 1303.1 | 1325.5 | 1322.3 | 1351.1 |
| 75° | 835.6 | 835.6 | 858.1 | 883.7 | 893.3 | 912.5 | 915.7 | 954.1 | 954.1 | 960.5 | 934.9 |
| 77.5° | 467.4 | 454.6 | 470.6 | 496.3 | 518.7 | 553.9 | 589.1 | 617.9 | 633.9 | 627.5 | 627.5 |
| 80° | 272.1 | 272.1 | 288.2 | 317.0 | 345.8 | 377.8 | 403.4 | 425.8 | 441.8 | 435.4 | 422.6 |
| 82.5° | 169.7 | 169.7 | 185.7 | 214.5 | 236.9 | 256.1 | 291.4 | 320.2 | 339.4 | 333.0 | 317.0 |
| 85° | 86.4 | 86.4 | 105.7 | 124.9 | 153.7 | 166.5 | 163.3 | 150.5 | 147.3 | 131.3 | 131.3 |
| 87.5° | 22.4 | 22.4 | 32.0 | 35.2 | 28.8 | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 35.2 |
| 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)