

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: P457210

Luminaire Tested: **GALN-SA8C-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59417 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

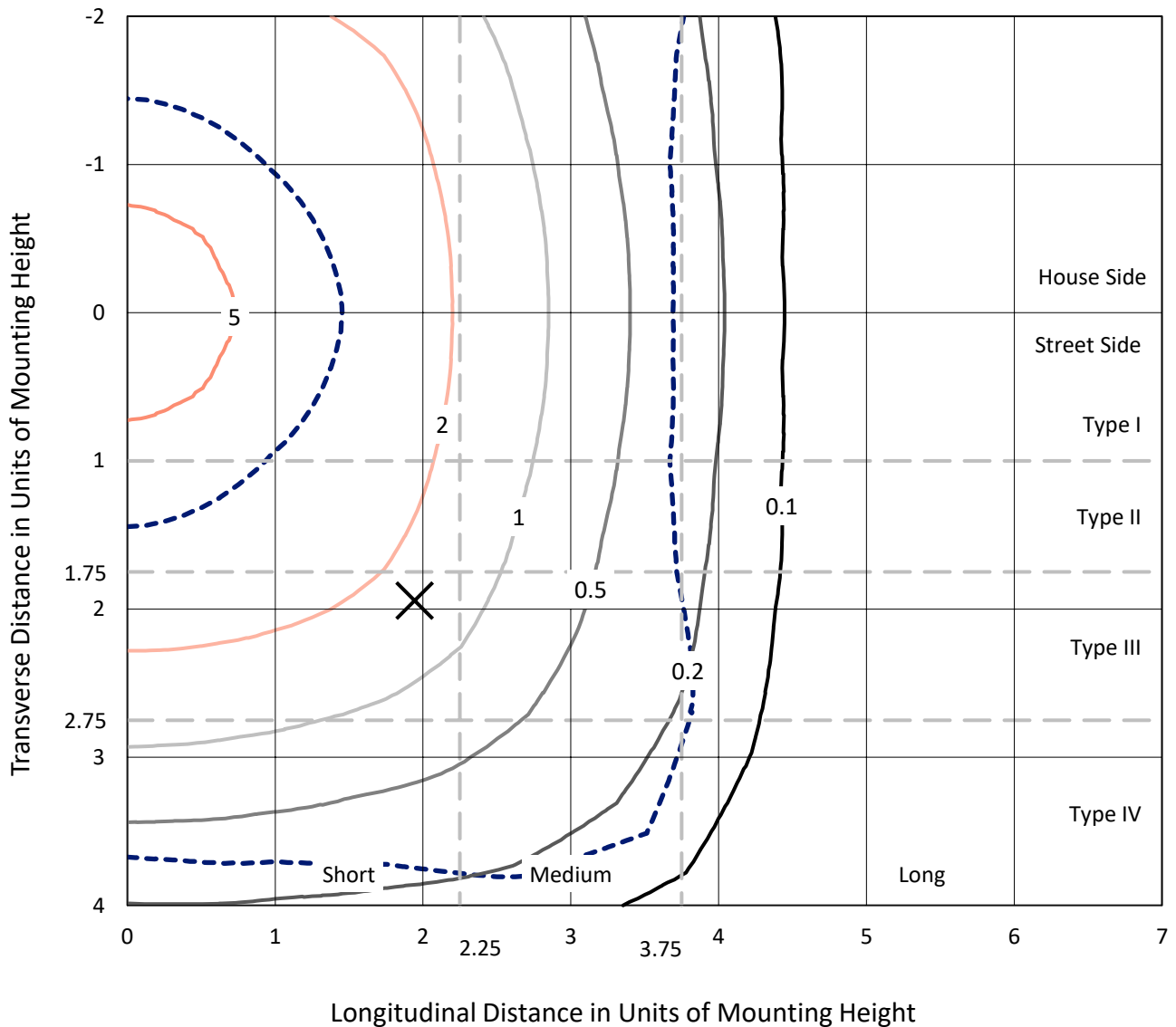
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

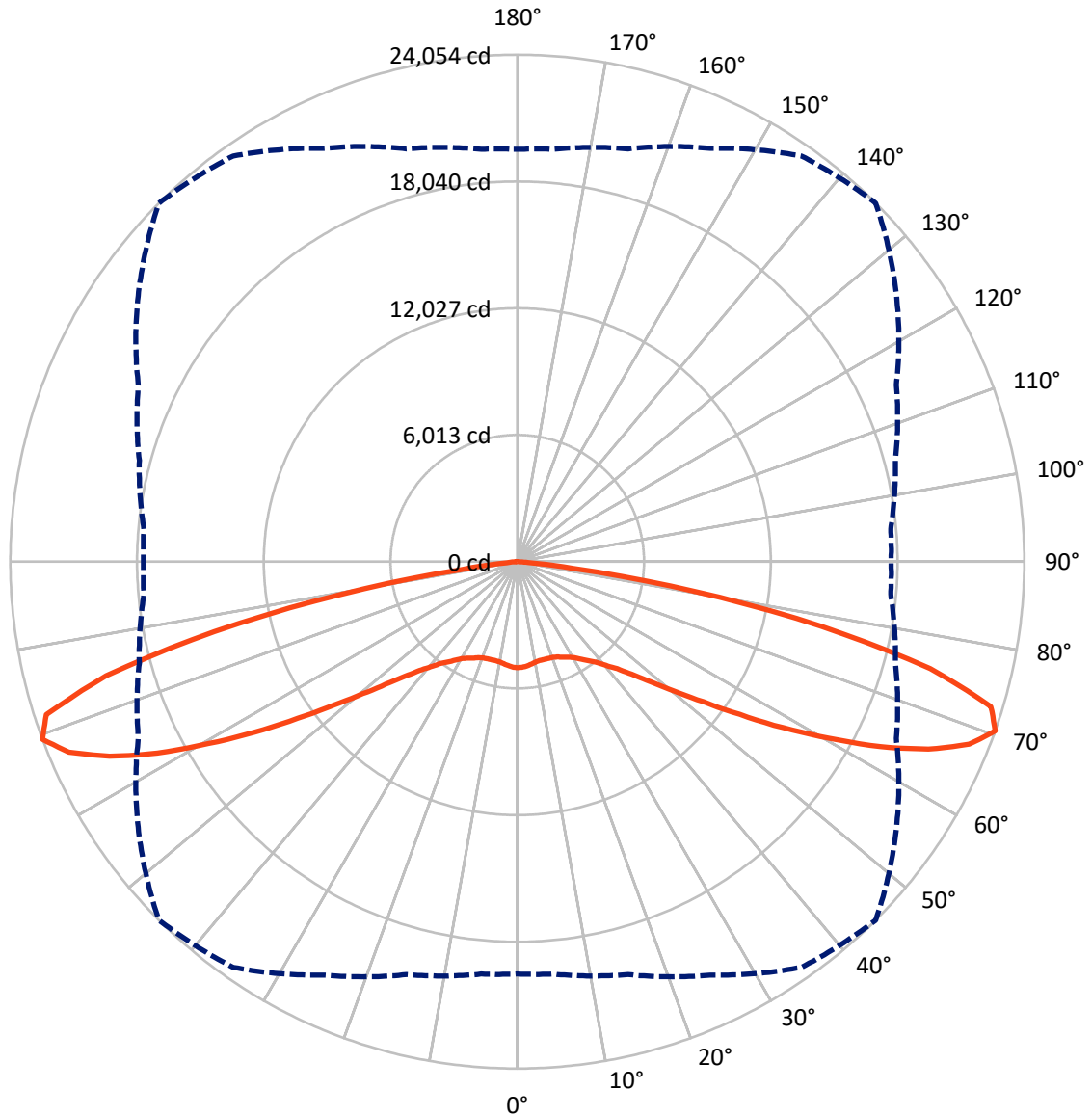
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 29708.5 | 0.0 | 29708.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 29708.5 | 0.0 | 29708.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 59417.0 | 0.0 | 59417.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 470.4 | 0.8 |
| 10°-20° | 1377.2 | 2.3 |
| 20°-30° | 2346.5 | 3.9 |
| 30°-40° | 3637.0 | 6.1 |
| 40°-50° | 6121.6 | 10.3 |
| 50°-60° | 11137.9 | 18.7 |
| 60°-70° | 18856.3 | 31.7 |
| 70°-80° | 14595.5 | 24.6 |
| 80°-90° | 874.6 | 1.5 |
| 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° | 59417.0 | 100.0 |
| 0°-180° | 59417.0 | 100.0 |



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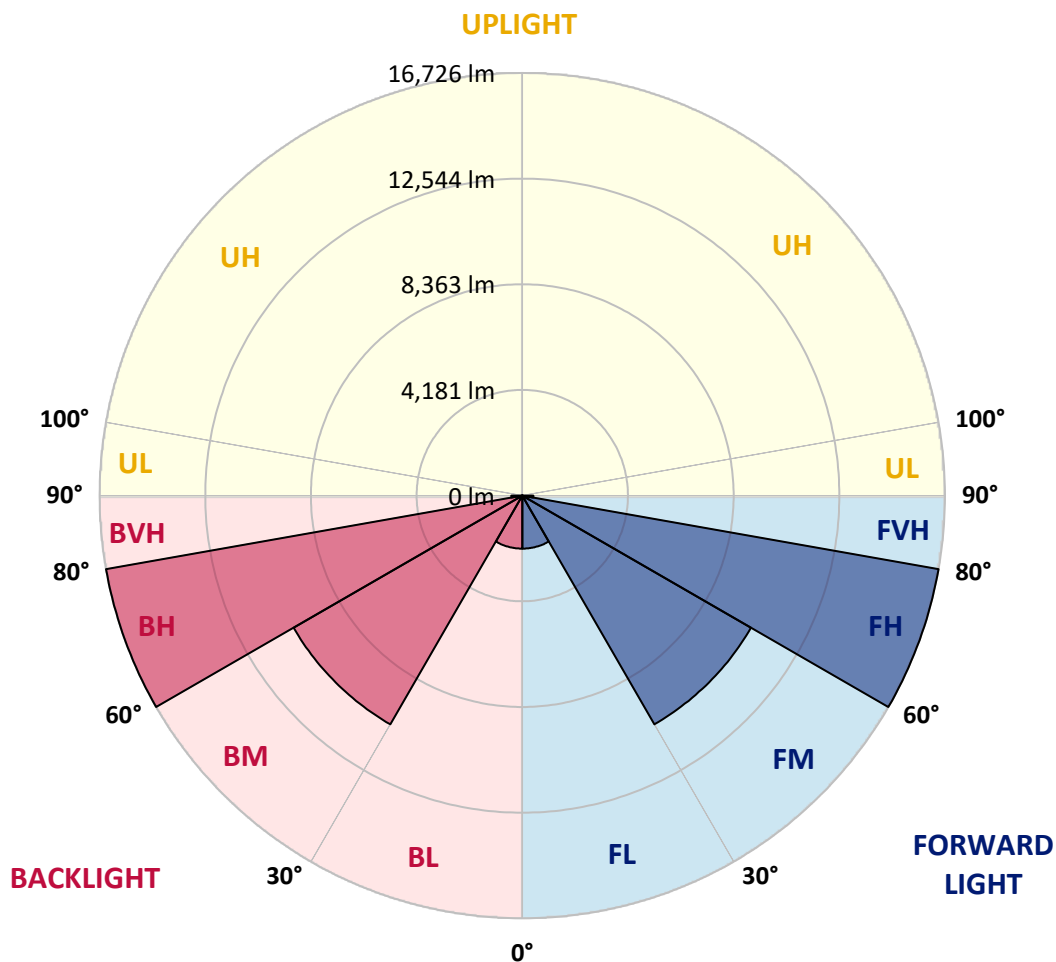
CATALOG NUMBER: GALN-SA8C-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2097.1 | 3.5 | | | |
| FM (30°-60°) | 10448.3 | 17.6 | | | |
| FH (60°-80°) | 16725.9 | 28.1 | | | G5 |
| FVH (80°-90°) | 437.3 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2097.1 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 10448.3 | 17.6 | B5 | | |
| BH (60°-80°) | 16725.9 | 28.1 | B5 | | G5 |
| BVH (80°-90°) | 437.3 | 0.7 | | | 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 V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5030.4 | 5030.4 | 5030.4 | 5030.4 | 5030.4 | 5030.4 | 5030.4 | 5030.4 | 5030.4 | 5030.4 | 5030.4 |
| 2.5° | 5017.8 | 5021.0 | 5021.0 | 5014.7 | 5011.5 | 5011.5 | 5008.4 | 5008.4 | 5017.8 | 5021.0 | 5024.1 |
| 5° | 4973.9 | 4973.9 | 4973.9 | 4970.8 | 4964.5 | 4964.5 | 4958.2 | 4958.2 | 4961.3 | 4970.8 | 4964.5 |
| 7.5° | 4914.3 | 4920.5 | 4920.5 | 4908.0 | 4898.6 | 4898.6 | 4895.4 | 4898.6 | 4901.7 | 4911.1 | 4908.0 |
| 10° | 4895.4 | 4898.6 | 4882.9 | 4860.9 | 4845.2 | 4835.8 | 4839.0 | 4845.2 | 4860.9 | 4867.2 | 4870.3 |
| 12.5° | 4908.0 | 4908.0 | 4879.7 | 4848.4 | 4820.1 | 4807.6 | 4804.4 | 4826.4 | 4854.6 | 4873.5 | 4879.7 |
| 15° | 4923.7 | 4917.4 | 4882.9 | 4842.1 | 4813.8 | 4810.7 | 4807.6 | 4823.3 | 4864.1 | 4901.7 | 4904.9 |
| 17.5° | 4933.1 | 4930.0 | 4886.0 | 4835.8 | 4820.1 | 4820.1 | 4817.0 | 4829.5 | 4873.5 | 4920.5 | 4923.7 |
| 20° | 4964.5 | 4955.1 | 4904.9 | 4851.5 | 4839.0 | 4845.2 | 4835.8 | 4851.5 | 4898.6 | 4955.1 | 4967.6 |
| 22.5° | 5027.2 | 5017.8 | 4967.6 | 4914.3 | 4908.0 | 4908.0 | 4904.9 | 4920.5 | 4970.8 | 5030.4 | 5039.8 |
| 25° | 5102.6 | 5093.1 | 5046.1 | 5008.4 | 5014.7 | 5027.2 | 5021.0 | 5024.1 | 5064.9 | 5115.1 | 5130.8 |
| 27.5° | 5203.0 | 5187.3 | 5146.5 | 5115.1 | 5133.9 | 5133.9 | 5133.9 | 5130.8 | 5155.9 | 5203.0 | 5218.7 |
| 30° | 5325.4 | 5319.1 | 5275.1 | 5272.0 | 5287.7 | 5272.0 | 5272.0 | 5275.1 | 5278.3 | 5322.2 | 5337.9 |
| 32.5° | 5485.4 | 5472.8 | 5450.9 | 5444.6 | 5488.5 | 5501.1 | 5457.2 | 5416.4 | 5438.3 | 5482.3 | 5491.7 |
| 35° | 5749.0 | 5730.2 | 5698.8 | 5664.3 | 5698.8 | 5758.4 | 5664.3 | 5632.9 | 5689.4 | 5749.0 | 5755.3 |
| 37.5° | 6106.7 | 6097.3 | 6047.1 | 5984.4 | 5981.2 | 6044.0 | 5946.7 | 5943.6 | 6050.3 | 6122.4 | 6131.9 |
| 40° | 6555.5 | 6564.9 | 6502.1 | 6442.5 | 6411.1 | 6461.4 | 6386.0 | 6414.3 | 6517.8 | 6599.4 | 6593.2 |
| 42.5° | 7186.3 | 7151.7 | 7054.5 | 6998.0 | 6963.4 | 6944.6 | 6925.8 | 6969.7 | 7085.8 | 7173.7 | 7242.7 |
| 45° | 7923.7 | 7911.2 | 7788.8 | 7719.7 | 7644.4 | 7616.2 | 7609.9 | 7688.3 | 7829.6 | 7936.3 | 7945.7 |
| 47.5° | 8758.4 | 8730.2 | 8651.7 | 8579.6 | 8551.3 | 8516.8 | 8485.4 | 8545.1 | 8686.3 | 8761.6 | 8783.5 |
| 50° | 9618.3 | 9624.6 | 9624.6 | 9612.0 | 9640.2 | 9646.5 | 9561.8 | 9583.8 | 9662.2 | 9655.9 | 9649.7 |
| 52.5° | 10600.5 | 10635.0 | 10798.2 | 10813.9 | 10948.8 | 11039.8 | 10886.1 | 10795.1 | 10766.8 | 10597.4 | 10609.9 |
| 55° | 11755.3 | 11786.7 | 12031.5 | 12276.3 | 12640.3 | 12794.0 | 12470.8 | 12188.4 | 11987.5 | 11730.2 | 11742.8 |
| 57.5° | 13195.7 | 13211.4 | 13443.6 | 13914.3 | 14491.8 | 14852.6 | 14284.6 | 13726.1 | 13318.1 | 13073.3 | 12976.0 |
| 60° | 14745.9 | 14761.6 | 15100.5 | 15674.8 | 16572.3 | 17011.6 | 16308.7 | 15395.5 | 14880.9 | 14507.4 | 14532.5 |
| 62.5° | 16606.8 | 16669.6 | 16974.0 | 17764.8 | 18853.7 | 19346.4 | 18414.4 | 17193.7 | 16497.0 | 16032.6 | 16051.4 |
| 65° | 18599.5 | 18706.2 | 19038.9 | 19908.1 | 20912.3 | 21442.6 | 20300.4 | 18891.4 | 18025.3 | 17457.3 | 17516.9 |
| 67.5° | 19892.4 | 19986.6 | 20466.7 | 21427.0 | 22679.1 | 23118.4 | 21643.5 | 20002.3 | 18919.6 | 18241.8 | 18116.3 |
| 70° | 19562.9 | 19641.4 | 20281.5 | 21643.5 | 23498.1 | 24053.5 | 21963.6 | 19839.1 | 18565.0 | 17783.6 | 17733.4 |
| 72.5° | 17269.0 | 17105.8 | 18040.9 | 19996.0 | 22562.9 | 23495.0 | 20956.2 | 18119.4 | 16515.8 | 15712.5 | 15618.3 |
| 75° | 11444.7 | 11799.3 | 13180.0 | 15483.4 | 19089.1 | 20243.9 | 17887.2 | 14548.2 | 12530.4 | 11862.0 | 11758.5 |
| 77.5° | 3825.3 | 4098.4 | 5325.4 | 8777.3 | 13013.7 | 14749.1 | 13032.5 | 9514.7 | 6731.2 | 5422.6 | 5447.7 |
| 80° | 1013.6 | 1001.1 | 1296.0 | 2413.2 | 5623.5 | 8541.9 | 6546.1 | 3222.8 | 1763.6 | 1277.2 | 1211.3 |
| 82.5° | 364.0 | 408.0 | 524.1 | 668.4 | 1490.6 | 2654.8 | 1873.4 | 903.8 | 662.1 | 489.5 | 473.9 |
| 85° | 160.0 | 156.9 | 225.9 | 266.7 | 373.4 | 495.8 | 439.3 | 382.8 | 335.8 | 222.8 | 207.1 |
| 87.5° | 34.5 | 34.5 | 53.3 | 40.8 | 65.9 | 65.9 | 81.6 | 97.3 | 100.4 | 65.9 | 53.3 |
| 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)