

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: P457933

Luminaire Tested: **GALN-SA9B-750-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-750-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54103 lumens
Efficiency: N/A
Efficacy: 148.6 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

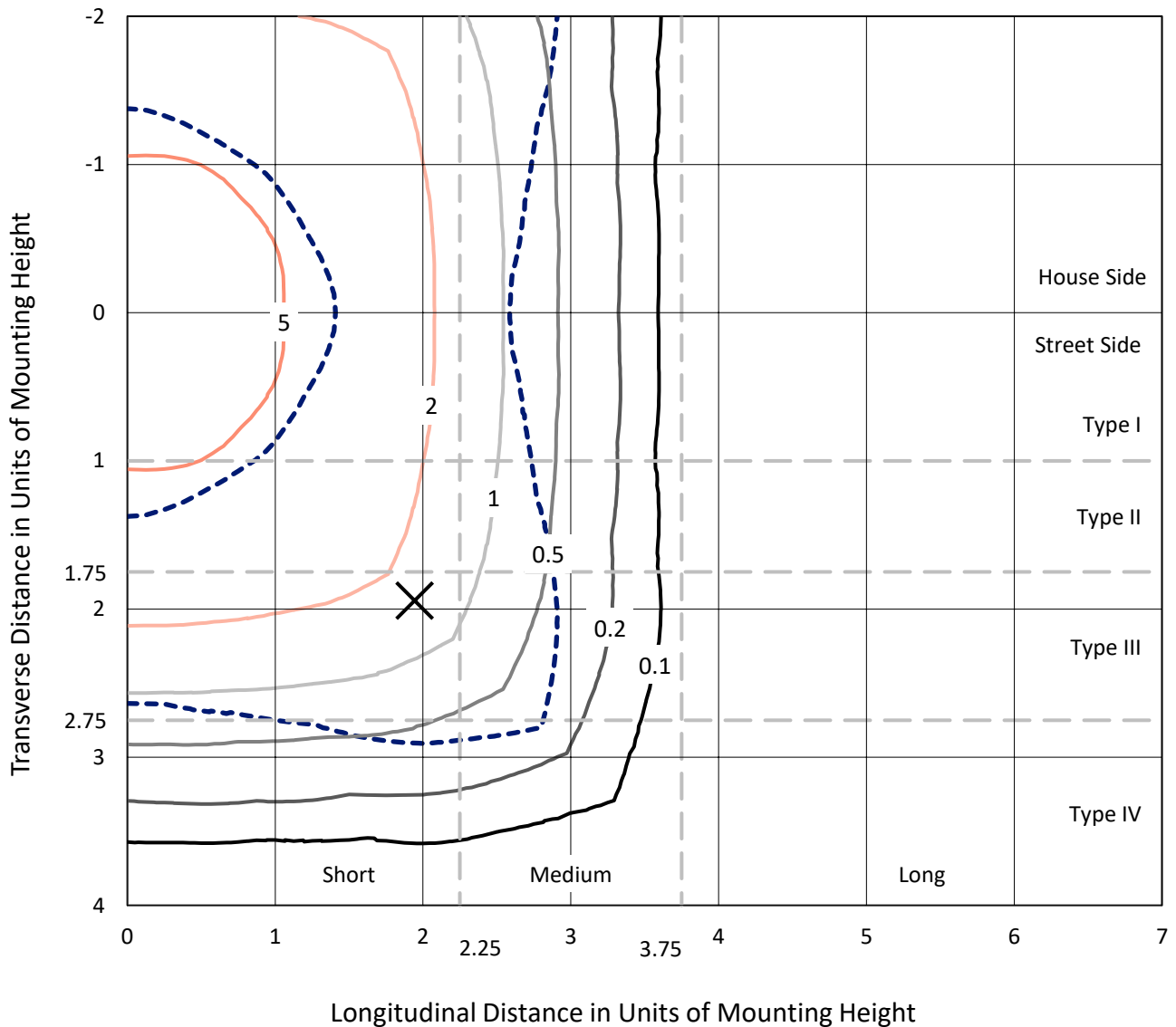
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

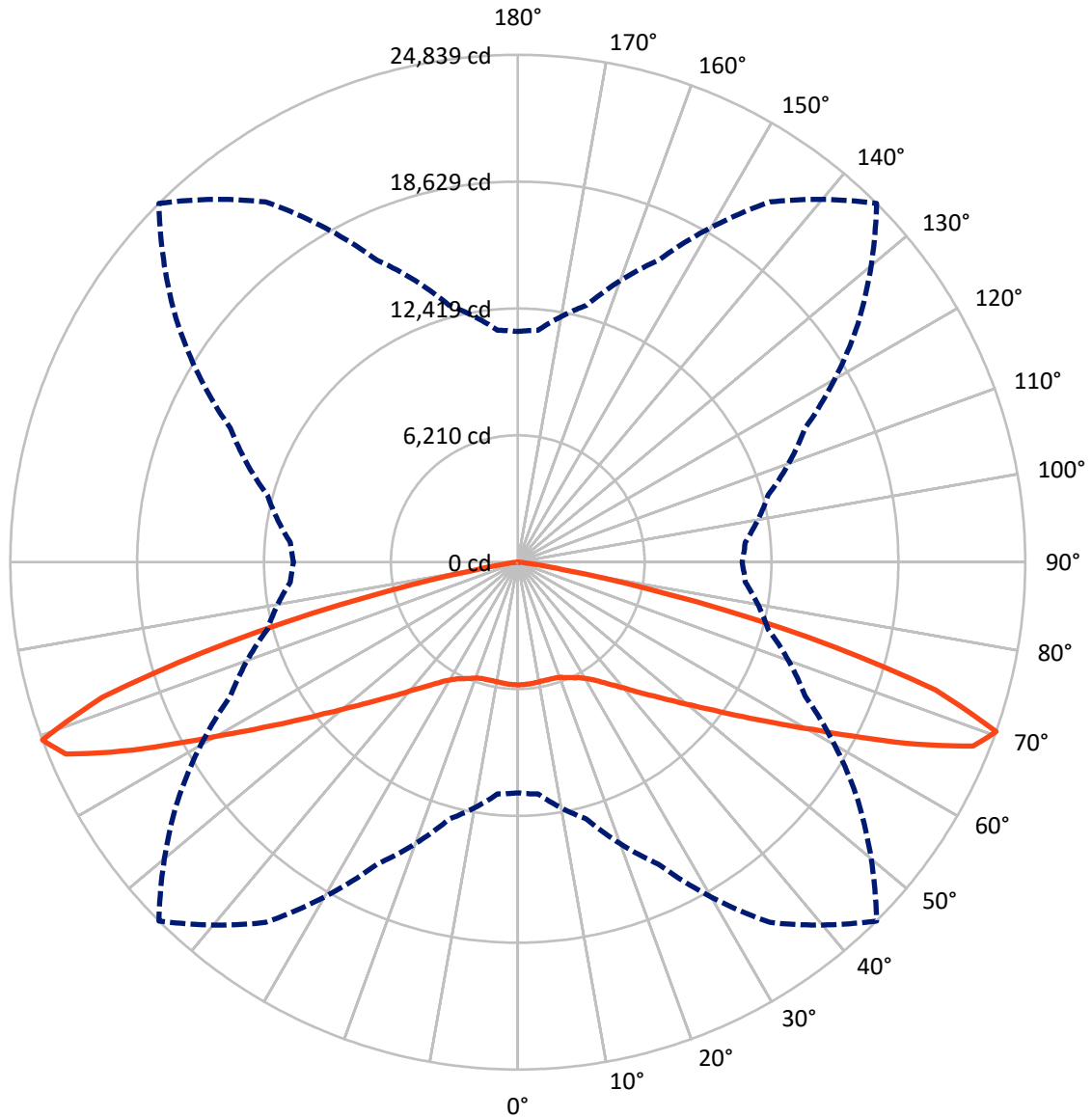
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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 | 27051.5 | 0.0 | 27051.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 27051.5 | 0.0 | 27051.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 54103.0 | 0.0 | 54103.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 569.7 | 1.1 |
| 10°-20° | 1671.8 | 3.1 |
| 20°-30° | 2859.3 | 5.3 |
| 30°-40° | 4538.3 | 8.4 |
| 40°-50° | 7321.5 | 13.5 |
| 50°-60° | 11912.2 | 22.0 |
| 60°-70° | 17268.4 | 31.9 |
| 70°-80° | 7659.7 | 14.2 |
| 80°-90° | 302.1 | 0.6 |
| 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° | 54103.0 | 100.0 |
| 0°-180° | 54103.0 | 100.0 |

Coefficient of Utilization



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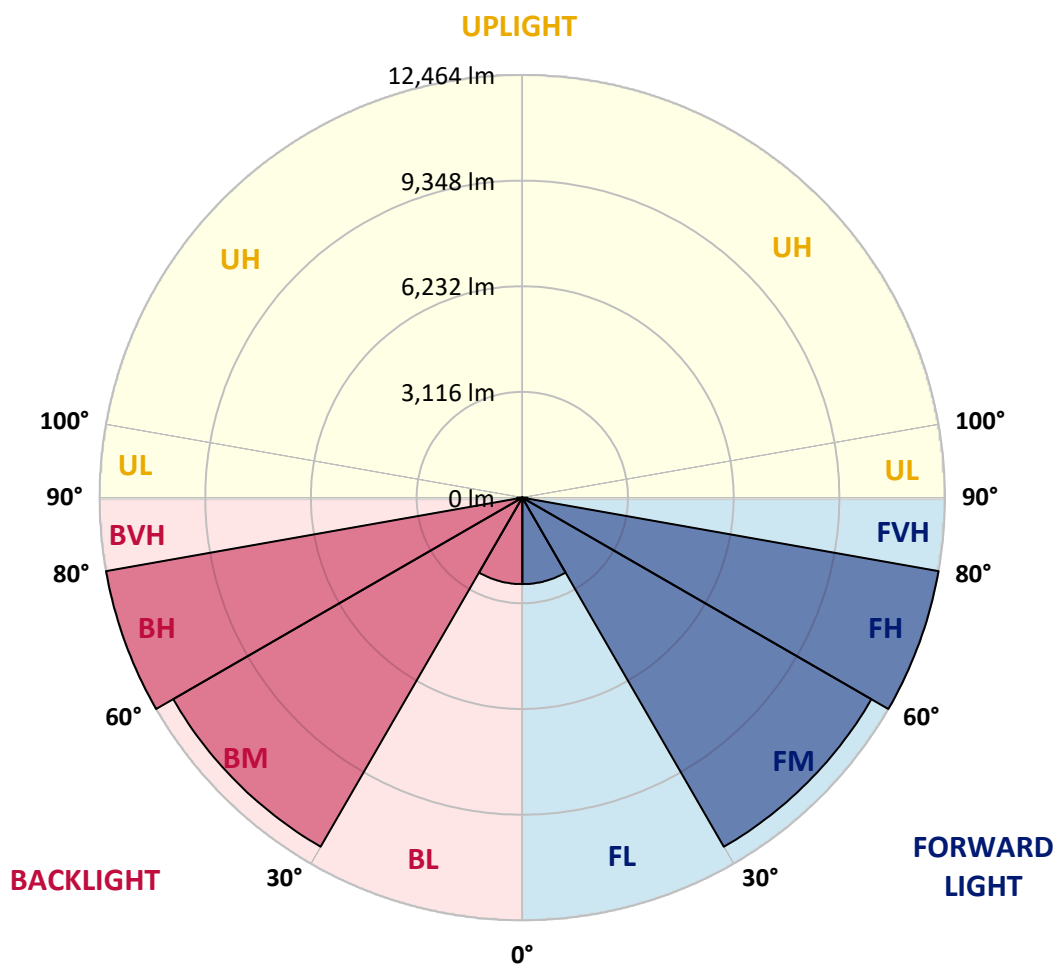
CATALOG NUMBER: GALN-SA9B-750-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2550.4 | 4.7 | | | |
| FM (30°-60°) | 11886.0 | 22.0 | | | |
| FH (60°-80°) | 12464.0 | 23.0 | | | G5 |
| FVH (80°-90°) | 151.1 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2550.4 | 4.7 | B4/5000 | | |
| BM (30°-60°) | 11886.0 | 22.0 | B5 | | |
| BH (60°-80°) | 12464.0 | 23.0 | B5 | | G5 |
| BVH (80°-90°) | 151.1 | 0.3 | | | 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 V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6007.9 | 6007.9 | 6007.9 | 6007.9 | 6007.9 | 6007.9 | 6007.9 | 6007.9 | 6007.9 | 6007.9 | 6007.9 |
| 2.5° | 6007.9 | 6013.6 | 6005.0 | 5999.3 | 5996.5 | 5996.5 | 5993.6 | 5996.5 | 6013.6 | 6016.4 | 6007.9 |
| 5° | 5990.8 | 5996.5 | 5993.6 | 5987.9 | 5985.1 | 5985.1 | 5982.2 | 5979.4 | 5993.6 | 5999.3 | 5996.5 |
| 7.5° | 5968.0 | 5970.8 | 5968.0 | 5965.1 | 5968.0 | 5965.1 | 5956.6 | 5950.9 | 5962.3 | 5962.3 | 5959.4 |
| 10° | 5928.0 | 5933.7 | 5930.9 | 5933.7 | 5939.4 | 5939.4 | 5928.0 | 5916.6 | 5919.5 | 5913.8 | 5913.8 |
| 12.5° | 5879.6 | 5888.1 | 5891.0 | 5902.4 | 5916.6 | 5933.7 | 5908.1 | 5882.4 | 5876.7 | 5873.9 | 5871.0 |
| 15° | 5848.2 | 5856.8 | 5868.2 | 5879.6 | 5905.2 | 5942.3 | 5905.2 | 5865.3 | 5853.9 | 5842.5 | 5836.8 |
| 17.5° | 5839.7 | 5851.1 | 5868.2 | 5885.3 | 5919.5 | 5956.6 | 5925.2 | 5885.3 | 5856.8 | 5839.7 | 5833.9 |
| 20° | 5862.5 | 5871.0 | 5896.7 | 5928.0 | 5976.5 | 6013.6 | 5982.2 | 5939.4 | 5896.7 | 5871.0 | 5862.5 |
| 22.5° | 5908.1 | 5922.3 | 5953.7 | 6010.7 | 6079.2 | 6133.3 | 6090.6 | 6019.3 | 5950.9 | 5916.6 | 5905.2 |
| 25° | 6007.9 | 6019.3 | 6056.4 | 6133.3 | 6213.2 | 6264.5 | 6218.9 | 6136.2 | 6042.1 | 5996.5 | 5982.2 |
| 27.5° | 6159.0 | 6176.1 | 6216.0 | 6307.3 | 6372.9 | 6401.4 | 6370.0 | 6313.0 | 6244.5 | 6196.1 | 6184.7 |
| 30° | 6372.9 | 6392.8 | 6452.7 | 6549.6 | 6592.4 | 6609.5 | 6595.3 | 6558.2 | 6509.7 | 6458.4 | 6447.0 |
| 32.5° | 6660.9 | 6672.3 | 6740.7 | 6831.9 | 6871.9 | 6877.6 | 6860.4 | 6843.3 | 6763.5 | 6678.0 | 6672.3 |
| 35° | 6983.1 | 7003.0 | 7085.7 | 7194.1 | 7231.1 | 7234.0 | 7199.8 | 7174.1 | 7080.0 | 7011.6 | 7011.6 |
| 37.5° | 7410.8 | 7419.3 | 7499.2 | 7621.8 | 7661.7 | 7650.3 | 7633.2 | 7610.4 | 7510.6 | 7422.2 | 7425.0 |
| 40° | 7912.6 | 7929.7 | 7998.2 | 8140.7 | 8140.7 | 8126.5 | 8137.9 | 8120.8 | 8021.0 | 7935.4 | 7938.3 |
| 42.5° | 8508.6 | 8517.1 | 8599.8 | 8750.9 | 8739.5 | 8711.0 | 8722.4 | 8699.6 | 8636.9 | 8539.9 | 8505.7 |
| 45° | 9144.4 | 9178.6 | 9321.2 | 9466.6 | 9443.8 | 9352.6 | 9398.2 | 9392.5 | 9335.5 | 9190.0 | 9198.6 |
| 47.5° | 9911.4 | 9968.5 | 10105.3 | 10279.3 | 10253.6 | 10111.0 | 10162.4 | 10196.6 | 10116.7 | 9957.1 | 9928.5 |
| 50° | 10775.4 | 10812.5 | 11014.9 | 11177.5 | 11154.6 | 11003.5 | 11120.4 | 11126.1 | 10926.5 | 10701.3 | 10701.3 |
| 52.5° | 11696.4 | 11733.5 | 12007.2 | 12261.0 | 12275.2 | 12055.7 | 12149.8 | 12144.1 | 11819.0 | 11522.5 | 11465.4 |
| 55° | 12728.6 | 12745.7 | 13099.3 | 13472.8 | 13552.7 | 13338.8 | 13350.2 | 13236.2 | 12814.2 | 12469.1 | 12437.8 |
| 57.5° | 13795.0 | 13857.8 | 14248.4 | 14733.1 | 14969.8 | 14838.6 | 14778.8 | 14473.7 | 14065.9 | 13669.6 | 13649.6 |
| 60° | 14975.5 | 14978.4 | 15485.9 | 16059.0 | 16538.1 | 16626.5 | 16381.2 | 15973.5 | 15446.0 | 14921.3 | 14898.5 |
| 62.5° | 15793.9 | 15916.5 | 16558.0 | 17527.5 | 18385.8 | 18881.9 | 18234.7 | 17379.2 | 16341.3 | 15494.5 | 15408.9 |
| 65° | 15962.1 | 16044.8 | 17022.8 | 18665.2 | 20418.8 | 21488.1 | 19991.1 | 18171.9 | 16401.2 | 15272.1 | 15215.0 |
| 67.5° | 14602.0 | 14690.4 | 16007.7 | 18528.3 | 21844.5 | 24037.2 | 21131.7 | 17789.8 | 15386.1 | 13988.9 | 13877.7 |
| 70° | 11294.4 | 11394.2 | 13022.3 | 16310.0 | 21528.0 | 24838.5 | 20319.0 | 15517.3 | 12688.7 | 11180.3 | 10977.9 |
| 72.5° | 6005.0 | 6372.9 | 7764.3 | 11194.6 | 17473.3 | 21385.4 | 16660.7 | 11322.9 | 8183.5 | 6689.4 | 6421.3 |
| 75° | 2192.7 | 2238.3 | 3013.9 | 4964.3 | 10165.2 | 14664.7 | 10555.9 | 5400.5 | 3105.2 | 2398.0 | 2275.4 |
| 77.5° | 906.7 | 903.9 | 992.3 | 1499.8 | 3692.6 | 7510.6 | 4120.3 | 1585.4 | 989.4 | 915.3 | 903.9 |
| 80° | 536.1 | 536.1 | 590.2 | 624.5 | 972.3 | 2266.9 | 1086.4 | 707.1 | 593.1 | 541.8 | 550.3 |
| 82.5° | 239.5 | 253.8 | 373.5 | 393.5 | 470.5 | 621.6 | 524.7 | 450.5 | 387.8 | 268.0 | 242.4 |
| 85° | 131.2 | 114.1 | 196.7 | 205.3 | 225.3 | 231.0 | 248.1 | 245.2 | 225.3 | 131.2 | 134.0 |
| 87.5° | 25.7 | 31.4 | 57.0 | 42.8 | 48.5 | 42.8 | 57.0 | 79.8 | 82.7 | 45.6 | 37.1 |
| 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)