

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: P531526

Luminaire Tested: **GALN-SA6D-750-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-750-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41319 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

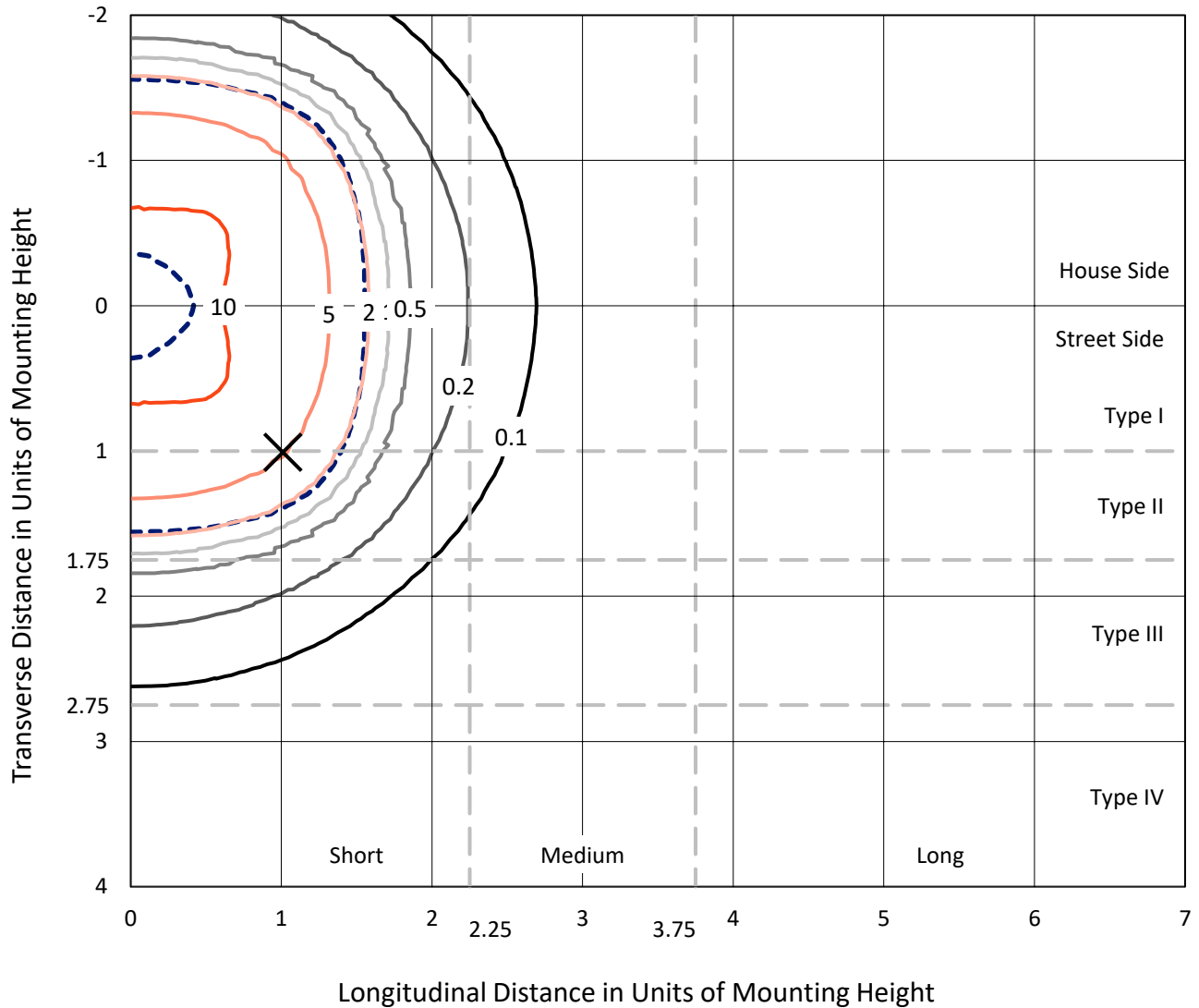
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

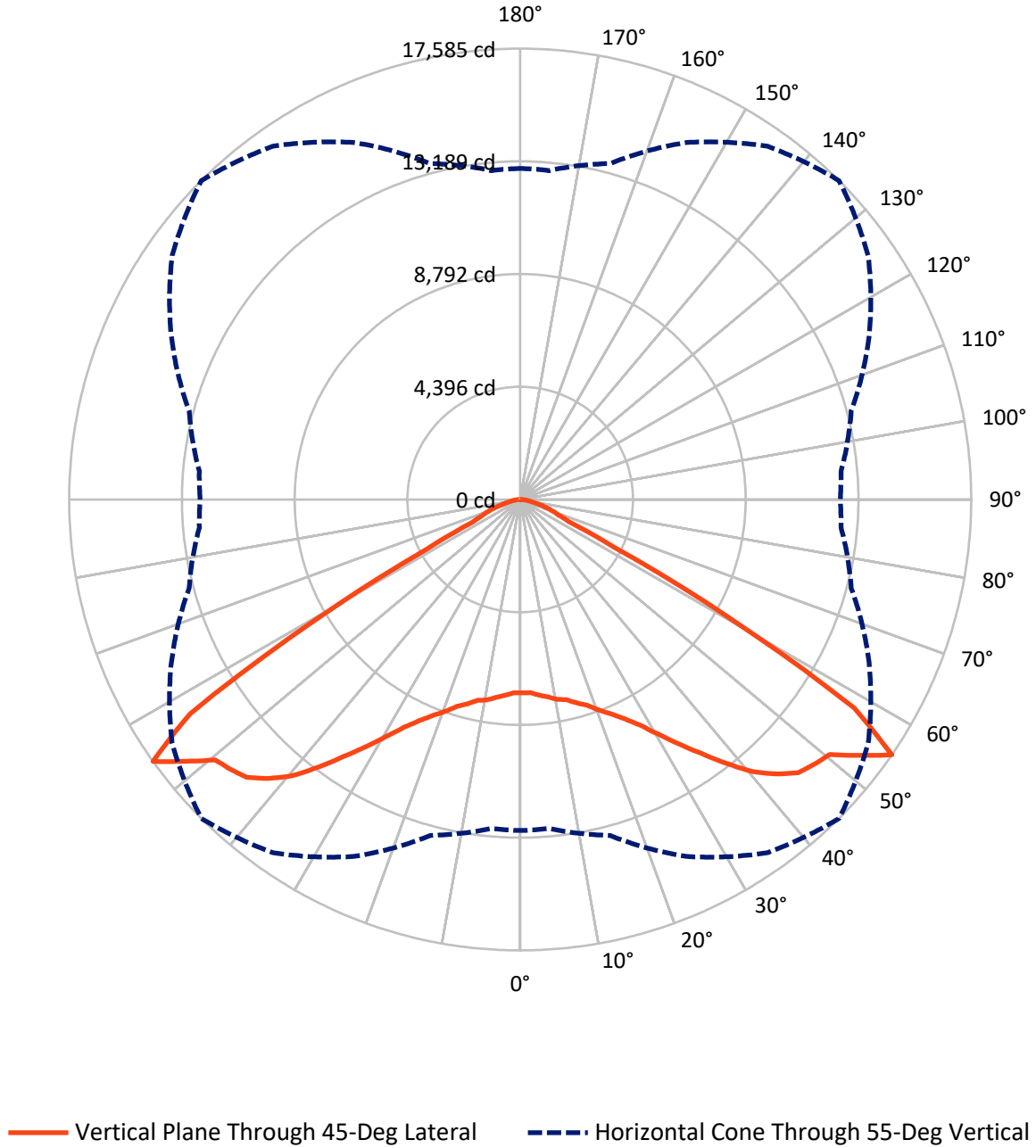
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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 | 20659.5 | 0.0 | 20659.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20659.5 | 0.0 | 20659.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 41319.0 | 0.0 | 41319.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 737.0 | 1.8 |
| 10°-20° | 2335.2 | 5.7 |
| 20°-30° | 4354.4 | 10.5 |
| 30°-40° | 7290.7 | 17.6 |
| 40°-50° | 11344.8 | 27.5 |
| 50°-60° | 11779.5 | 28.5 |
| 60°-70° | 2498.0 | 6.0 |
| 70°-80° | 822.7 | 2.0 |
| 80°-90° | 156.7 | 0.4 |
| 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° | 41319.0 | 100.0 |
| 0°-180° | 41319.0 | 100.0 |

Coefficient of Utilization

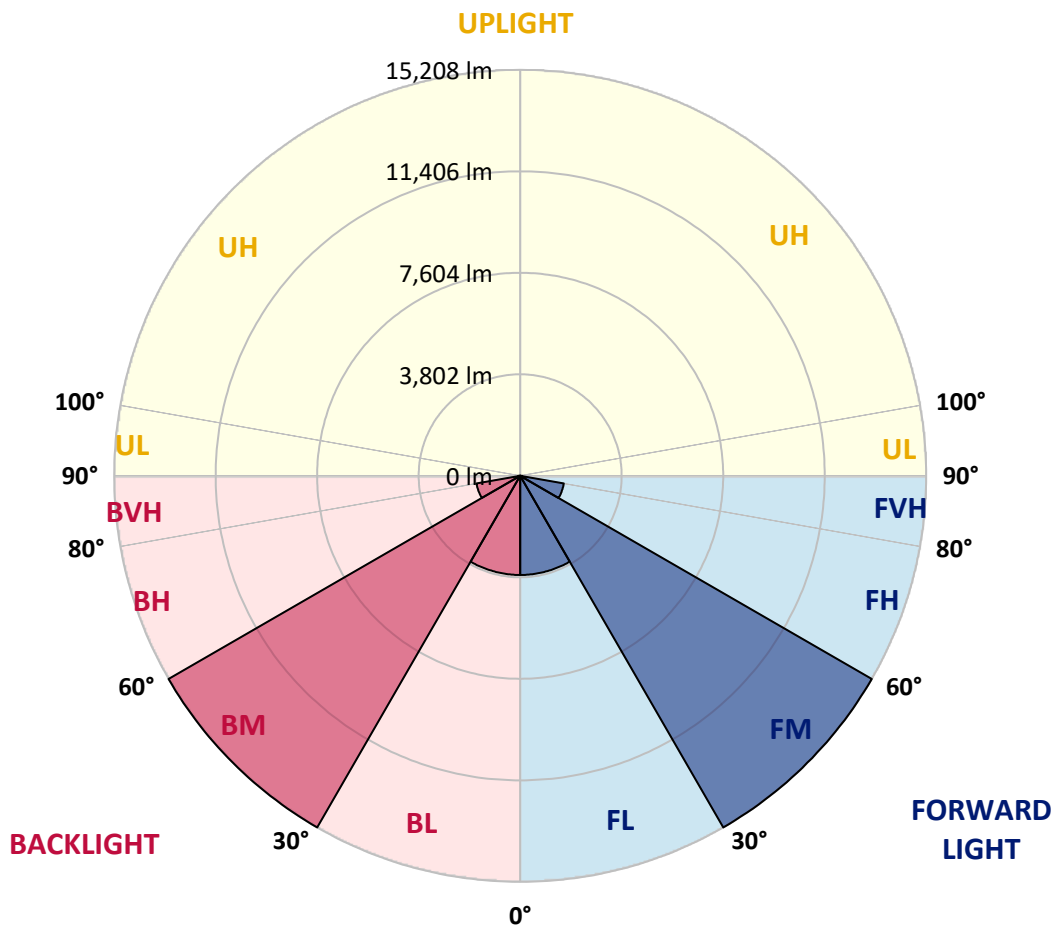


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3713.3 | 9.0 | | | |
| FM (30°-60°) | 15207.5 | 36.8 | | | |
| FH (60°-80°) | 1660.4 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 78.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3713.3 | 9.0 | B4/5000 | | |
| BM (30°-60°) | 15207.5 | 36.8 | B5 | | |
| BH (60°-80°) | 1660.4 | 4.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 78.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7544.2 | 7544.2 | 7544.2 | 7544.2 | 7544.2 | 7544.2 | 7544.2 | 7544.2 | 7544.2 | 7544.2 | 7544.2 |
| 2.5° | 7634.1 | 7599.2 | 7539.2 | 7584.2 | 7619.1 | 7544.2 | 7574.2 | 7589.2 | 7579.2 | 7539.2 | 7554.2 |
| 5° | 7743.9 | 7724.0 | 7674.0 | 7709.0 | 7664.1 | 7664.1 | 7634.1 | 7594.2 | 7654.1 | 7644.1 | 7669.1 |
| 7.5° | 7743.9 | 7719.0 | 7818.8 | 7753.9 | 7773.9 | 7773.9 | 7724.0 | 7684.0 | 7714.0 | 7669.1 | 7644.1 |
| 10° | 7898.7 | 7933.7 | 7888.7 | 7903.7 | 7893.7 | 7928.7 | 7853.8 | 7828.8 | 7803.9 | 7788.9 | 7758.9 |
| 12.5° | 8083.5 | 8058.5 | 8073.5 | 8063.5 | 8098.4 | 8008.6 | 7963.6 | 7908.7 | 7953.6 | 7888.7 | 7933.7 |
| 15° | 8233.2 | 8218.3 | 8233.2 | 8273.2 | 8238.2 | 8233.2 | 8153.4 | 8098.4 | 8028.5 | 8043.5 | 7973.6 |
| 17.5° | 8438.0 | 8423.0 | 8428.0 | 8462.9 | 8457.9 | 8433.0 | 8373.1 | 8268.2 | 8243.2 | 8203.3 | 8158.4 |
| 20° | 8742.5 | 8717.6 | 8707.6 | 8722.6 | 8747.5 | 8767.5 | 8647.7 | 8607.7 | 8522.8 | 8457.9 | 8383.0 |
| 22.5° | 9002.2 | 8992.2 | 9032.1 | 8967.2 | 9022.1 | 9082.0 | 8967.2 | 8947.2 | 8737.5 | 8702.6 | 8622.7 |
| 25° | 9361.6 | 9346.7 | 9321.7 | 9416.6 | 9481.5 | 9476.5 | 9366.6 | 9256.8 | 9097.0 | 9057.1 | 9057.1 |
| 27.5° | 9741.1 | 9656.2 | 9786.0 | 9811.0 | 9925.8 | 9960.8 | 9865.9 | 9706.1 | 9556.4 | 9471.5 | 9491.5 |
| 30° | 10215.4 | 10135.5 | 10165.5 | 10345.2 | 10495.0 | 10624.8 | 10385.2 | 10150.5 | 9940.8 | 9791.0 | 9766.1 |
| 32.5° | 10689.7 | 10609.9 | 10699.7 | 10874.5 | 11174.1 | 11368.8 | 11134.1 | 10724.7 | 10480.0 | 10260.4 | 10305.3 |
| 35° | 11074.2 | 11134.1 | 11278.9 | 11543.5 | 11853.1 | 12167.6 | 11793.2 | 11478.6 | 11129.1 | 10884.5 | 10919.4 |
| 37.5° | 11693.3 | 11878.0 | 11992.9 | 12297.4 | 12736.8 | 13061.4 | 12671.9 | 12262.5 | 11888.0 | 11568.5 | 11458.6 |
| 40° | 12502.2 | 12627.0 | 12756.8 | 13116.3 | 13635.5 | 13960.1 | 13590.6 | 13056.4 | 12686.9 | 12357.4 | 12342.4 |
| 42.5° | 13390.9 | 13510.7 | 13645.5 | 14084.9 | 14394.5 | 14639.1 | 14299.6 | 14015.0 | 13605.6 | 13346.0 | 13331.0 |
| 45° | 14424.4 | 14339.5 | 14489.3 | 14778.9 | 15038.5 | 15198.3 | 14978.6 | 14838.8 | 14544.2 | 14304.6 | 14279.6 |
| 47.5° | 15113.4 | 15038.5 | 15308.2 | 15567.8 | 15607.7 | 15433.0 | 15477.9 | 15607.7 | 15298.2 | 14903.7 | 15028.6 |
| 50° | 15512.9 | 15512.9 | 15692.6 | 15932.3 | 15857.4 | 15632.7 | 15987.2 | 15997.2 | 15687.6 | 15338.1 | 15338.1 |
| 52.5° | 14818.9 | 14973.6 | 15482.9 | 16266.8 | 16516.4 | 16581.3 | 16501.4 | 16161.9 | 15353.1 | 14639.1 | 14604.2 |
| 55° | 12911.6 | 12876.6 | 13565.6 | 15363.1 | 16816.0 | 17584.9 | 16566.4 | 15003.6 | 13360.9 | 12557.1 | 12477.2 |
| 57.5° | 8398.0 | 8438.0 | 9466.5 | 11298.9 | 13920.1 | 15353.1 | 13635.5 | 11438.7 | 9466.5 | 8358.1 | 8462.9 |
| 60° | 3779.6 | 3914.4 | 4538.5 | 5906.6 | 8158.4 | 9326.7 | 8178.3 | 6206.1 | 4763.2 | 4134.1 | 4189.0 |
| 62.5° | 2171.9 | 2196.9 | 2221.8 | 2636.2 | 3475.0 | 4109.1 | 3609.8 | 2786.0 | 2456.5 | 2346.7 | 2346.7 |
| 65° | 1832.4 | 1817.4 | 1822.4 | 1857.3 | 1947.2 | 2077.0 | 2022.1 | 1947.2 | 1957.2 | 1947.2 | 1932.2 |
| 67.5° | 1557.8 | 1577.7 | 1562.8 | 1587.7 | 1592.7 | 1612.7 | 1647.6 | 1677.6 | 1682.6 | 1692.6 | 1682.6 |
| 70° | 1278.2 | 1283.2 | 1293.2 | 1313.1 | 1318.1 | 1333.1 | 1383.0 | 1408.0 | 1423.0 | 1423.0 | 1442.9 |
| 72.5° | 978.6 | 973.6 | 983.6 | 1003.6 | 1028.5 | 1033.5 | 1078.5 | 1113.4 | 1133.4 | 1108.4 | 1113.4 |
| 75° | 644.1 | 649.1 | 664.1 | 679.0 | 714.0 | 748.9 | 763.9 | 798.9 | 803.9 | 813.8 | 788.9 |
| 77.5° | 384.5 | 394.4 | 409.4 | 439.4 | 469.3 | 499.3 | 534.2 | 559.2 | 569.2 | 559.2 | 529.2 |
| 80° | 249.6 | 249.6 | 269.6 | 294.6 | 329.5 | 354.5 | 374.5 | 394.4 | 409.4 | 394.4 | 384.5 |
| 82.5° | 154.8 | 154.8 | 179.7 | 209.7 | 234.7 | 249.6 | 279.6 | 304.6 | 319.5 | 309.6 | 294.6 |
| 85° | 79.9 | 84.9 | 104.9 | 129.8 | 149.8 | 159.8 | 154.8 | 139.8 | 124.8 | 119.8 | 109.8 |
| 87.5° | 25.0 | 25.0 | 30.0 | 30.0 | 25.0 | 25.0 | 30.0 | 25.0 | 30.0 | 30.0 | 30.0 |
| 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)