

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: P647532

Luminaire Tested: **GALN-SA7D-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647532
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-SA7D-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 38000.6 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

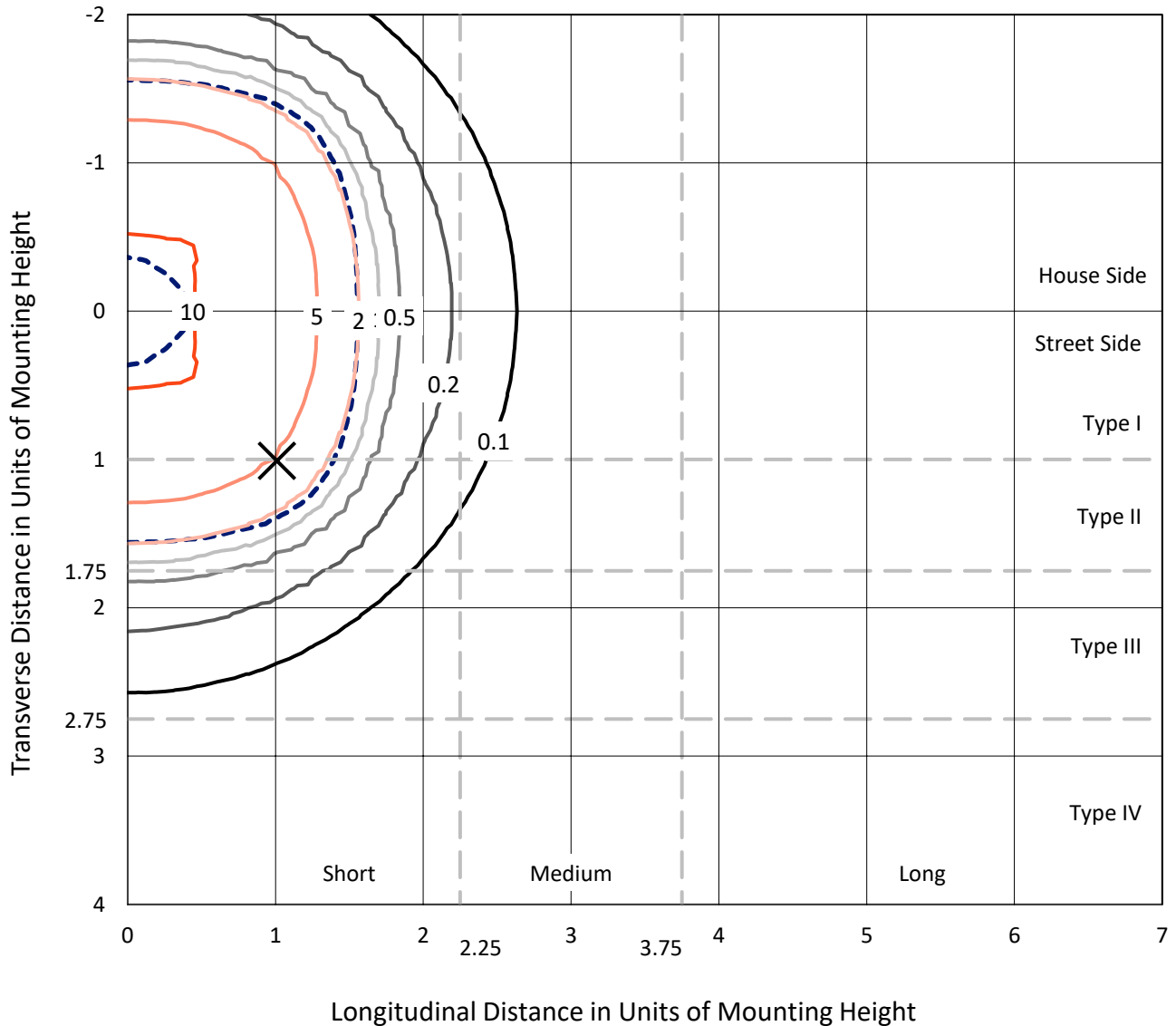
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

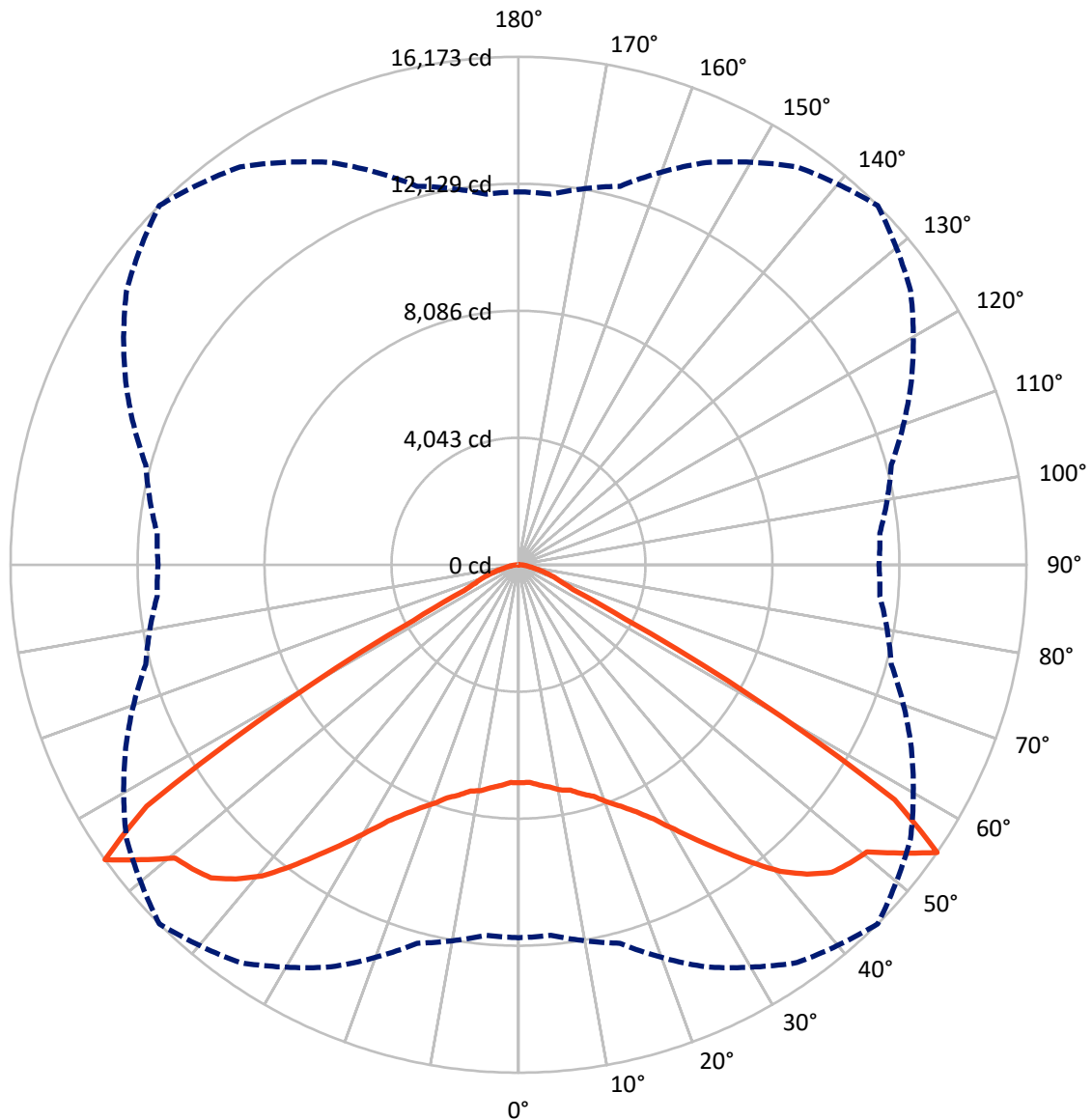
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19000.3 | 0.0 | 19000.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19000.3 | 0.0 | 19000.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 38000.6 | 0.0 | 38000.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 677.8 | 1.8 |
| 10°-20° | 2147.6 | 5.7 |
| 20°-30° | 4004.7 | 10.5 |
| 30°-40° | 6705.1 | 17.6 |
| 40°-50° | 10433.7 | 27.5 |
| 50°-60° | 10833.5 | 28.5 |
| 60°-70° | 2297.4 | 6.0 |
| 70°-80° | 756.6 | 2.0 |
| 80°-90° | 144.1 | 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° | 38000.6 | 100.0 |
| 0°-180° | 38000.6 | 100.0 |

Coefficient of Utilization

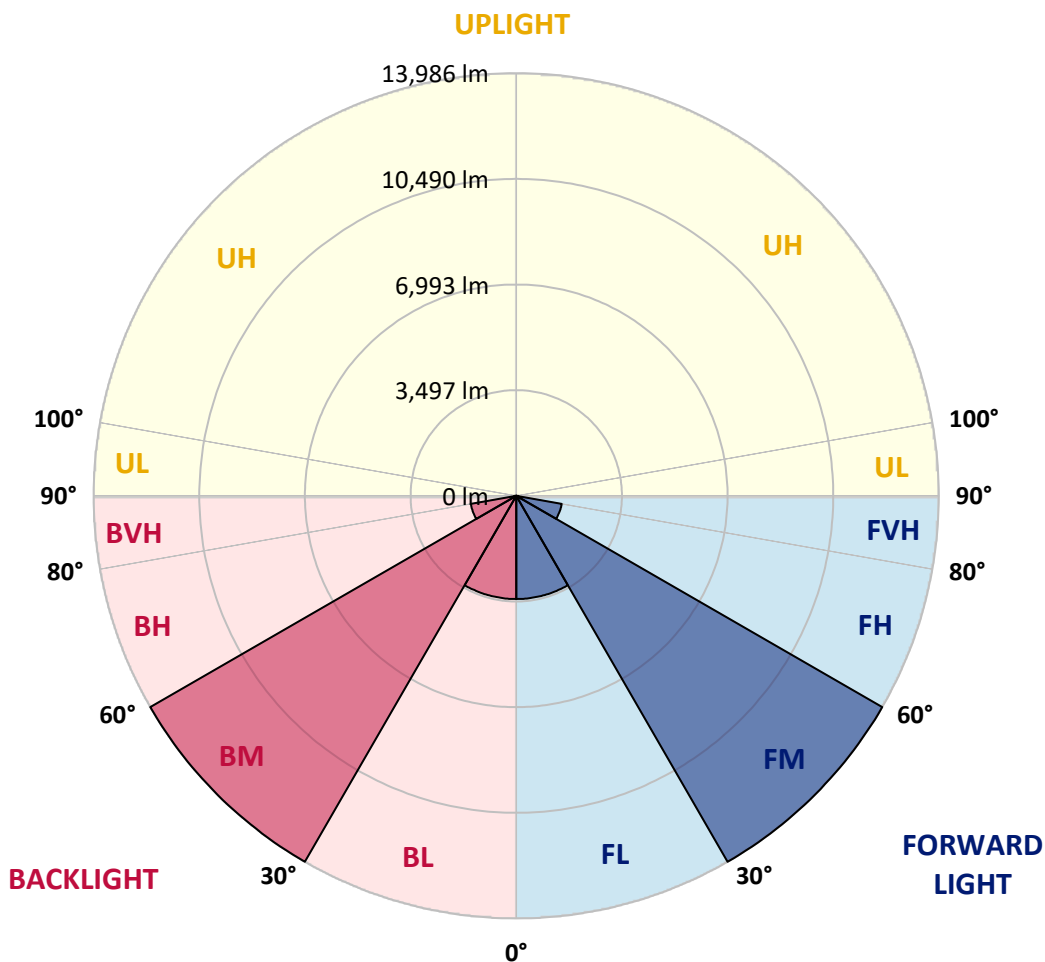


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3415.1 | 9.0 | | | |
| FM (30°-60°) | 13986.1 | 36.8 | | | |
| FH (60°-80°) | 1527.0 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 72.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3415.1 | 9.0 | B4/5000 | | |
| BM (30°-60°) | 13986.1 | 36.8 | B5 | | |
| BH (60°-80°) | 1527.0 | 4.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 72.0 | 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° | 6938.3 | 6938.3 | 6938.3 | 6938.3 | 6938.3 | 6938.3 | 6938.3 | 6938.3 | 6938.3 | 6938.3 | 6938.3 |
| 2.5° | 7021.0 | 6988.8 | 6933.8 | 6975.0 | 7007.2 | 6938.3 | 6965.9 | 6979.7 | 6970.5 | 6933.8 | 6947.5 |
| 5° | 7122.0 | 7103.6 | 7057.7 | 7089.8 | 7048.6 | 7048.6 | 7021.0 | 6984.3 | 7039.3 | 7030.2 | 7053.1 |
| 7.5° | 7122.0 | 7099.1 | 7190.9 | 7131.2 | 7149.6 | 7149.6 | 7103.6 | 7066.9 | 7094.4 | 7053.1 | 7030.2 |
| 10° | 7264.4 | 7296.5 | 7255.2 | 7269.0 | 7259.7 | 7291.9 | 7223.0 | 7200.1 | 7177.1 | 7163.4 | 7135.8 |
| 12.5° | 7434.3 | 7411.3 | 7425.1 | 7415.9 | 7448.1 | 7365.4 | 7324.0 | 7273.5 | 7314.9 | 7255.2 | 7296.5 |
| 15° | 7572.0 | 7558.2 | 7572.0 | 7608.7 | 7576.6 | 7572.0 | 7498.6 | 7448.1 | 7383.8 | 7397.5 | 7333.3 |
| 17.5° | 7760.3 | 7746.5 | 7751.1 | 7783.3 | 7778.6 | 7755.7 | 7700.6 | 7604.2 | 7581.2 | 7544.4 | 7503.1 |
| 20° | 8040.4 | 8017.5 | 8008.2 | 8022.0 | 8045.0 | 8063.3 | 7953.2 | 7916.4 | 7838.4 | 7778.6 | 7709.8 |
| 22.5° | 8279.1 | 8270.0 | 8306.7 | 8247.0 | 8297.5 | 8352.7 | 8247.0 | 8228.6 | 8035.8 | 8003.7 | 7930.1 |
| 25° | 8609.8 | 8596.0 | 8573.1 | 8660.3 | 8720.0 | 8715.4 | 8614.4 | 8513.3 | 8366.4 | 8329.7 | 8329.7 |
| 27.5° | 8958.8 | 8880.7 | 9000.1 | 9023.1 | 9128.7 | 9160.8 | 9073.6 | 8926.6 | 8788.9 | 8710.8 | 8729.2 |
| 30° | 9395.0 | 9321.5 | 9349.1 | 9514.4 | 9652.1 | 9771.5 | 9551.1 | 9335.3 | 9142.5 | 9004.7 | 8981.7 |
| 32.5° | 9831.2 | 9757.7 | 9840.4 | 10001.1 | 10276.6 | 10455.7 | 10239.9 | 9863.4 | 9638.3 | 9436.3 | 9477.7 |
| 35° | 10184.8 | 10239.9 | 10373.0 | 10616.5 | 10901.2 | 11190.4 | 10846.0 | 10556.7 | 10235.3 | 10010.3 | 10042.4 |
| 37.5° | 10754.2 | 10924.1 | 11029.7 | 11309.8 | 11713.9 | 12012.4 | 11654.2 | 11277.6 | 10933.3 | 10639.4 | 10538.4 |
| 40° | 11498.0 | 11612.9 | 11732.2 | 12062.9 | 12540.4 | 12838.9 | 12499.1 | 12007.8 | 11668.0 | 11364.9 | 11351.2 |
| 42.5° | 12315.4 | 12425.7 | 12549.6 | 12953.7 | 13238.4 | 13463.4 | 13151.2 | 12889.4 | 12512.9 | 12274.1 | 12260.3 |
| 45° | 13266.0 | 13187.9 | 13325.6 | 13591.9 | 13830.8 | 13977.7 | 13775.6 | 13647.1 | 13376.1 | 13155.7 | 13132.8 |
| 47.5° | 13899.7 | 13830.8 | 14078.7 | 14317.5 | 14354.2 | 14193.5 | 14234.9 | 14354.2 | 14069.5 | 13706.8 | 13821.6 |
| 50° | 14267.0 | 14267.0 | 14432.3 | 14652.7 | 14583.8 | 14377.2 | 14703.2 | 14712.4 | 14427.7 | 14106.3 | 14106.3 |
| 52.5° | 13628.7 | 13771.1 | 14239.4 | 14960.4 | 15190.0 | 15249.6 | 15176.2 | 14863.9 | 14120.1 | 13463.4 | 13431.3 |
| 55° | 11874.6 | 11842.5 | 12476.2 | 14129.2 | 15465.4 | 16172.6 | 15235.8 | 13798.6 | 12287.9 | 11548.6 | 11475.1 |
| 57.5° | 7723.5 | 7760.3 | 8706.2 | 10391.4 | 12802.2 | 14120.1 | 12540.4 | 10520.0 | 8706.2 | 7686.8 | 7783.3 |
| 60° | 3476.1 | 3600.0 | 4174.0 | 5432.2 | 7503.1 | 8577.6 | 7521.5 | 5707.7 | 4380.7 | 3802.1 | 3852.6 |
| 62.5° | 1997.4 | 2020.5 | 2043.4 | 2424.5 | 3196.0 | 3779.1 | 3319.9 | 2562.3 | 2259.2 | 2158.2 | 2158.2 |
| 65° | 1685.3 | 1671.5 | 1676.0 | 1708.2 | 1790.8 | 1910.2 | 1859.7 | 1790.8 | 1800.0 | 1790.8 | 1777.1 |
| 67.5° | 1432.7 | 1451.1 | 1437.3 | 1460.2 | 1464.8 | 1483.2 | 1515.3 | 1542.9 | 1547.4 | 1556.7 | 1547.4 |
| 70° | 1175.5 | 1180.1 | 1189.3 | 1207.7 | 1212.2 | 1226.0 | 1272.0 | 1294.9 | 1308.7 | 1308.7 | 1327.0 |
| 72.5° | 900.0 | 895.4 | 904.6 | 923.0 | 945.9 | 950.5 | 991.8 | 1024.0 | 1042.3 | 1019.4 | 1024.0 |
| 75° | 592.3 | 597.0 | 610.7 | 624.5 | 656.6 | 688.8 | 702.6 | 734.7 | 739.3 | 748.5 | 725.5 |
| 77.5° | 353.6 | 362.8 | 376.5 | 404.1 | 431.7 | 459.2 | 491.3 | 514.3 | 523.4 | 514.3 | 486.7 |
| 80° | 229.6 | 229.6 | 248.0 | 270.9 | 303.1 | 326.0 | 344.4 | 362.8 | 376.5 | 362.8 | 353.6 |
| 82.5° | 142.3 | 142.3 | 165.3 | 192.9 | 215.8 | 229.6 | 257.1 | 280.1 | 293.9 | 284.7 | 270.9 |
| 85° | 73.4 | 78.1 | 96.5 | 119.4 | 137.7 | 147.0 | 142.3 | 128.6 | 114.8 | 110.2 | 101.0 |
| 87.5° | 22.9 | 22.9 | 27.6 | 27.6 | 22.9 | 22.9 | 27.6 | 22.9 | 27.6 | 27.6 | 27.6 |
| 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)