

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: P530980

Luminaire Tested: **GALN-SA6B-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530980
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-SA6B-730-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA 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: 27679 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

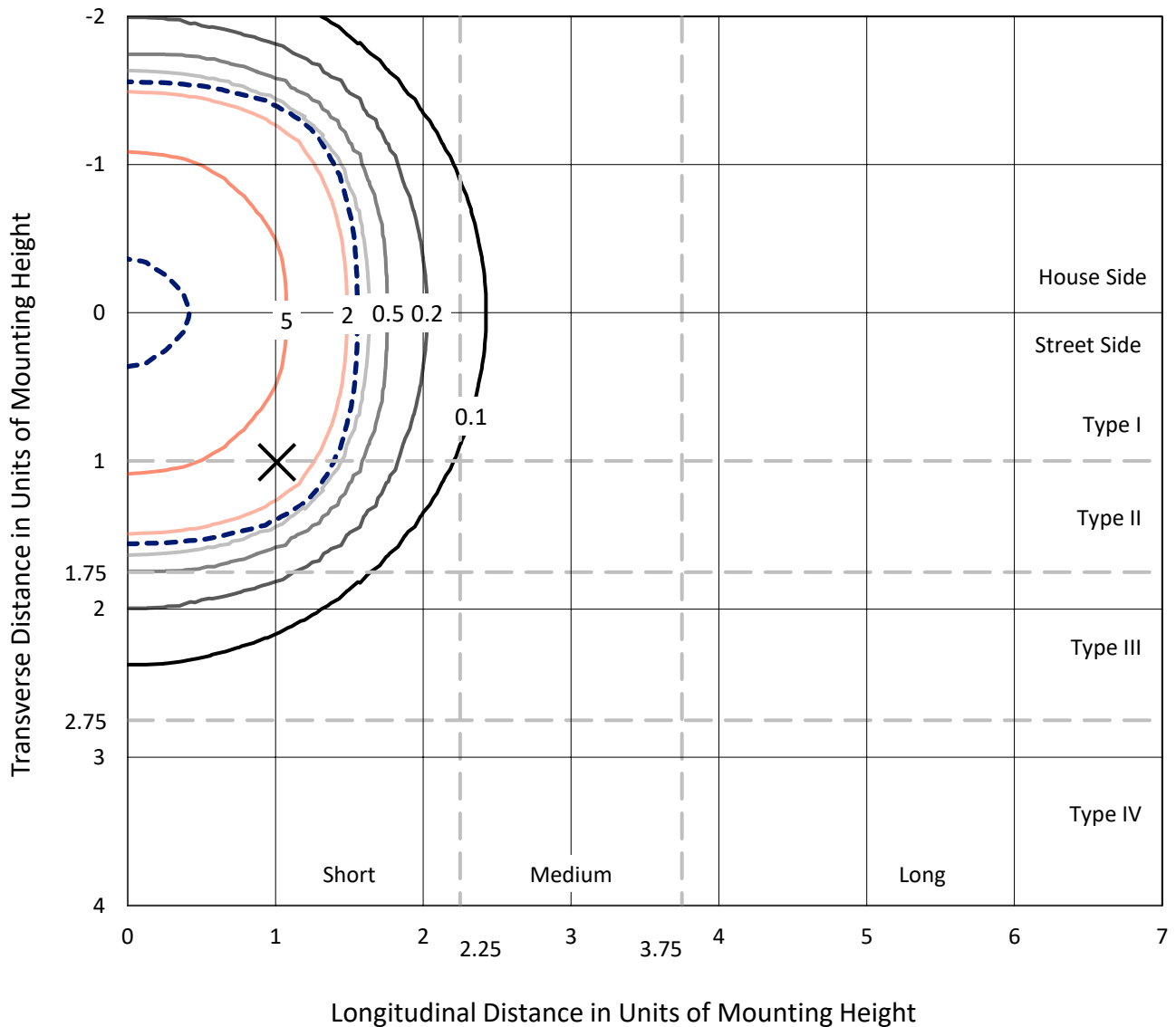
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

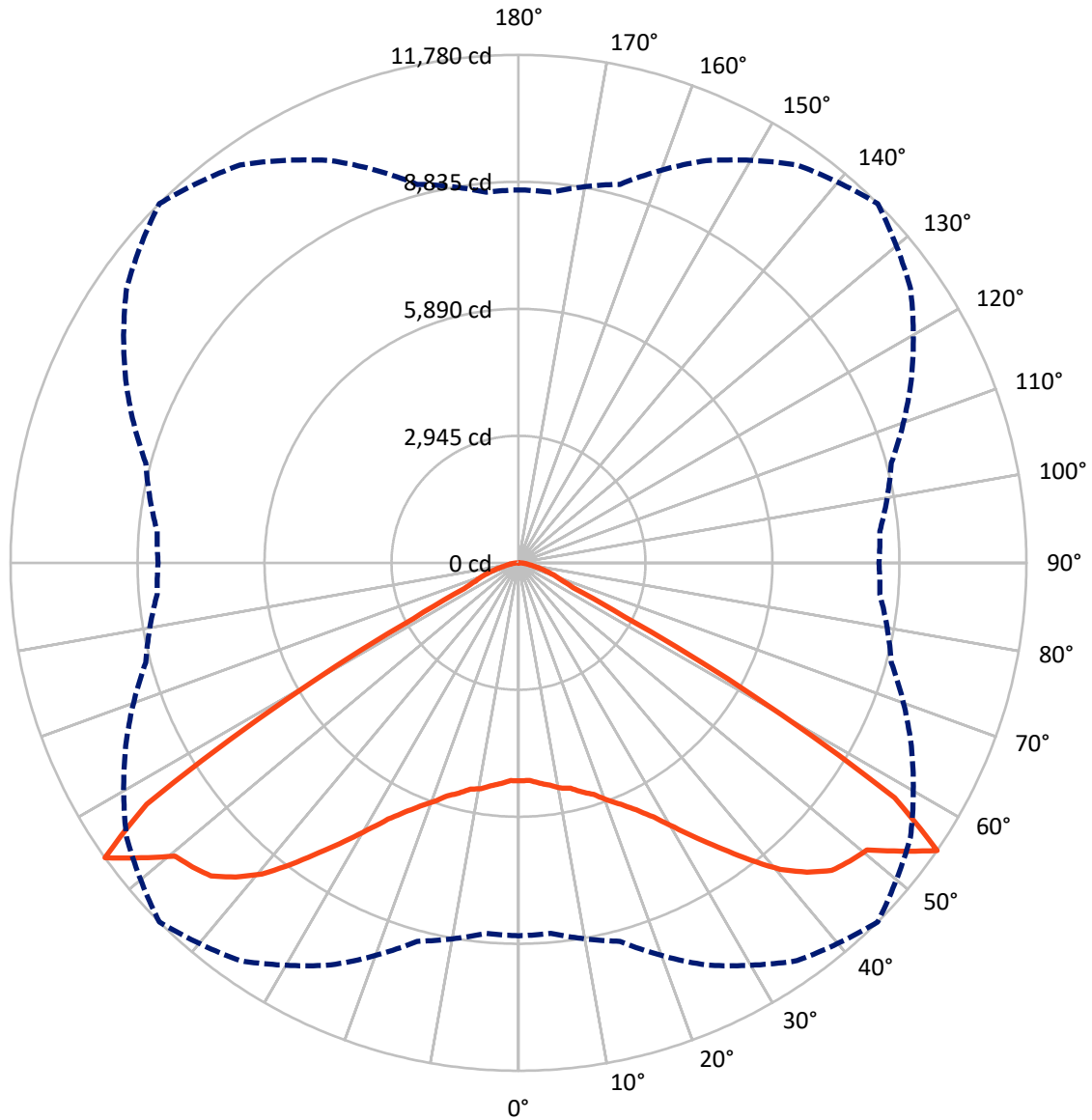
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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 | 13839.5 | 0.0 | 13839.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13839.5 | 0.0 | 13839.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27679.0 | 0.0 | 27679.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 493.7 | 1.8 |
| 10°-20° | 1564.3 | 5.7 |
| 20°-30° | 2916.9 | 10.5 |
| 30°-40° | 4883.9 | 17.6 |
| 40°-50° | 7599.7 | 27.5 |
| 50°-60° | 7890.9 | 28.5 |
| 60°-70° | 1673.4 | 6.0 |
| 70°-80° | 551.1 | 2.0 |
| 80°-90° | 105.0 | 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° | 27679.0 | 100.0 |
| 0°-180° | 27679.0 | 100.0 |

Coefficient of Utilization



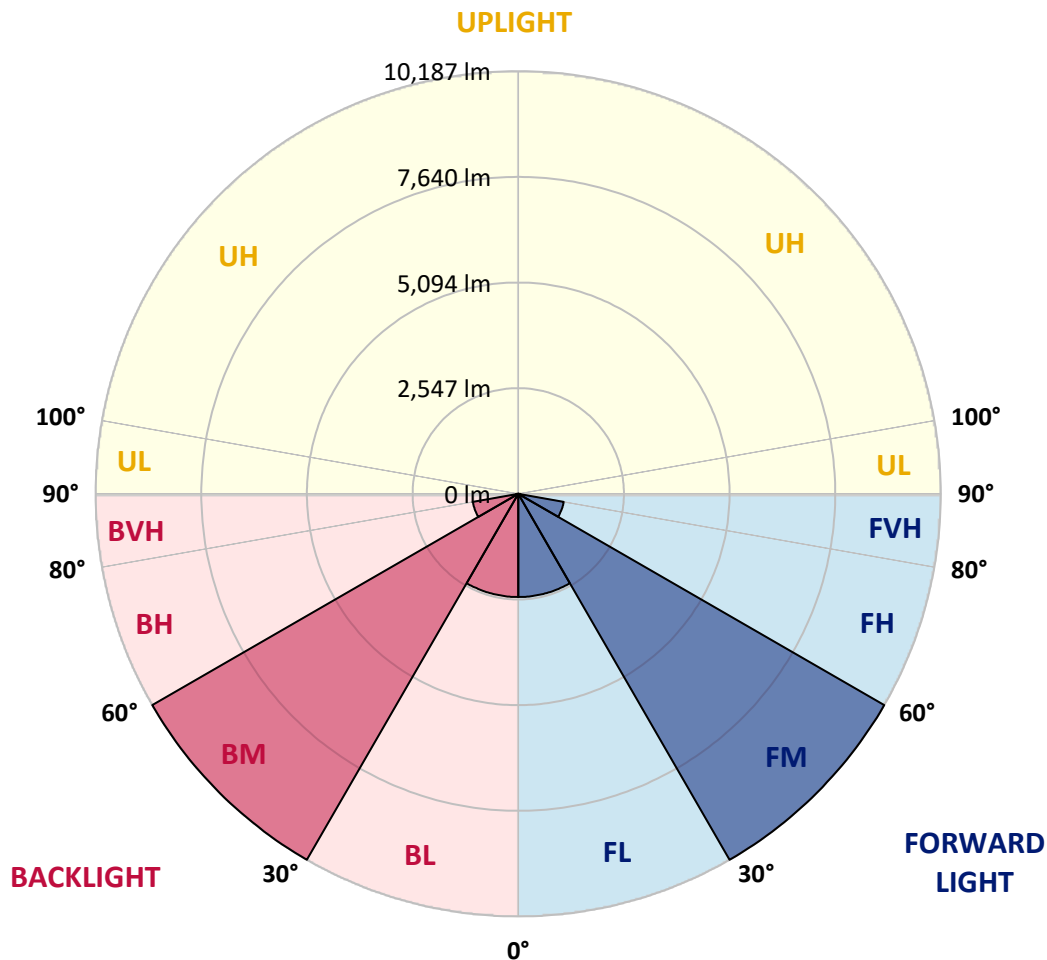
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2487.5 | 9.0 | | | |
| FM (30°-60°) | 10187.3 | 36.8 | | | |
| FH (60°-80°) | 1112.3 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 52.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2487.5 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 10187.3 | 36.8 | B5 | | |
| BH (60°-80°) | 1112.3 | 4.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 52.5 | 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° | 5053.8 | 5053.8 | 5053.8 | 5053.8 | 5053.8 | 5053.8 | 5053.8 | 5053.8 | 5053.8 | 5053.8 | 5053.8 |
| 2.5° | 5114.0 | 5090.6 | 5050.4 | 5080.5 | 5103.9 | 5053.8 | 5073.8 | 5083.9 | 5077.2 | 5050.4 | 5060.5 |
| 5° | 5187.6 | 5174.2 | 5140.7 | 5164.1 | 5134.0 | 5134.0 | 5114.0 | 5087.2 | 5127.4 | 5120.7 | 5137.4 |
| 7.5° | 5187.6 | 5170.8 | 5237.7 | 5194.2 | 5207.6 | 5207.6 | 5174.2 | 5147.4 | 5167.5 | 5137.4 | 5120.7 |
| 10° | 5291.2 | 5314.7 | 5284.6 | 5294.6 | 5287.9 | 5311.3 | 5261.1 | 5244.4 | 5227.7 | 5217.7 | 5197.6 |
| 12.5° | 5415.0 | 5398.3 | 5408.3 | 5401.6 | 5425.0 | 5364.8 | 5334.7 | 5297.9 | 5328.0 | 5284.6 | 5314.7 |
| 15° | 5515.3 | 5505.3 | 5515.3 | 5542.1 | 5518.7 | 5515.3 | 5461.8 | 5425.0 | 5378.2 | 5388.2 | 5341.4 |
| 17.5° | 5652.5 | 5642.4 | 5645.8 | 5669.2 | 5665.8 | 5649.1 | 5609.0 | 5538.7 | 5522.0 | 5495.3 | 5465.2 |
| 20° | 5856.5 | 5839.8 | 5833.1 | 5843.1 | 5859.8 | 5873.2 | 5792.9 | 5766.2 | 5709.3 | 5665.8 | 5615.7 |
| 22.5° | 6030.4 | 6023.7 | 6050.5 | 6007.0 | 6043.8 | 6083.9 | 6007.0 | 5993.6 | 5853.1 | 5829.7 | 5776.2 |
| 25° | 6271.2 | 6261.2 | 6244.5 | 6308.0 | 6351.5 | 6348.2 | 6274.6 | 6201.0 | 6094.0 | 6067.2 | 6067.2 |
| 27.5° | 6525.4 | 6468.6 | 6555.5 | 6572.2 | 6649.2 | 6672.6 | 6609.0 | 6502.0 | 6401.7 | 6344.8 | 6358.2 |
| 30° | 6843.2 | 6789.6 | 6809.7 | 6930.1 | 7030.5 | 7117.4 | 6956.9 | 6799.7 | 6659.2 | 6558.9 | 6542.1 |
| 32.5° | 7160.9 | 7107.4 | 7167.6 | 7284.7 | 7485.3 | 7615.8 | 7458.6 | 7184.3 | 7020.4 | 6873.3 | 6903.4 |
| 35° | 7418.4 | 7458.6 | 7555.6 | 7732.8 | 7940.2 | 8150.9 | 7900.1 | 7689.4 | 7455.2 | 7291.3 | 7314.8 |
| 37.5° | 7833.2 | 7956.9 | 8033.9 | 8237.9 | 8532.2 | 8749.6 | 8488.7 | 8214.5 | 7963.6 | 7749.6 | 7676.0 |
| 40° | 8375.0 | 8458.6 | 8545.6 | 8786.4 | 9134.3 | 9351.7 | 9104.1 | 8746.3 | 8498.8 | 8278.0 | 8268.0 |
| 42.5° | 8970.4 | 9050.6 | 9140.9 | 9435.3 | 9642.6 | 9806.5 | 9579.1 | 9388.4 | 9114.2 | 8940.3 | 8930.2 |
| 45° | 9662.7 | 9605.8 | 9706.2 | 9900.2 | 10074.1 | 10181.1 | 10034.0 | 9940.3 | 9743.0 | 9582.4 | 9565.7 |
| 47.5° | 10124.3 | 10074.1 | 10254.7 | 10428.6 | 10455.4 | 10338.3 | 10368.4 | 10455.4 | 10248.0 | 9983.8 | 10067.4 |
| 50° | 10391.8 | 10391.8 | 10512.2 | 10672.8 | 10622.6 | 10472.1 | 10709.6 | 10716.3 | 10508.9 | 10274.8 | 10274.8 |
| 52.5° | 9926.9 | 10030.6 | 10371.8 | 10896.9 | 11064.1 | 11107.6 | 11054.1 | 10826.6 | 10284.8 | 9806.5 | 9783.1 |
| 55° | 8649.3 | 8625.9 | 9087.4 | 10291.5 | 11264.8 | 11779.9 | 11097.6 | 10050.7 | 8950.3 | 8411.8 | 8358.3 |
| 57.5° | 5625.7 | 5652.5 | 6341.5 | 7569.0 | 9324.9 | 10284.8 | 9134.3 | 7662.6 | 6341.5 | 5599.0 | 5669.2 |
| 60° | 2531.9 | 2622.2 | 3040.3 | 3956.7 | 5465.2 | 6247.8 | 5478.5 | 4157.4 | 3190.8 | 2769.4 | 2806.2 |
| 62.5° | 1454.9 | 1471.6 | 1488.4 | 1766.0 | 2327.9 | 2752.7 | 2418.2 | 1866.3 | 1645.6 | 1572.0 | 1572.0 |
| 65° | 1227.5 | 1217.5 | 1220.8 | 1244.2 | 1304.4 | 1391.4 | 1354.6 | 1304.4 | 1311.1 | 1304.4 | 1294.4 |
| 67.5° | 1043.5 | 1056.9 | 1046.9 | 1063.6 | 1066.9 | 1080.3 | 1103.7 | 1123.8 | 1127.1 | 1133.8 | 1127.1 |
| 70° | 856.2 | 859.6 | 866.3 | 879.6 | 883.0 | 893.0 | 926.5 | 943.2 | 953.2 | 953.2 | 966.6 |
| 72.5° | 655.6 | 652.2 | 658.9 | 672.3 | 689.0 | 692.3 | 722.4 | 745.9 | 759.2 | 742.5 | 745.9 |
| 75° | 431.5 | 434.8 | 444.8 | 454.9 | 478.3 | 501.7 | 511.7 | 535.1 | 538.5 | 545.2 | 528.5 |
| 77.5° | 257.5 | 264.2 | 274.3 | 294.3 | 314.4 | 334.5 | 357.9 | 374.6 | 381.3 | 374.6 | 354.5 |
| 80° | 167.2 | 167.2 | 180.6 | 197.3 | 220.7 | 237.5 | 250.8 | 264.2 | 274.3 | 264.2 | 257.5 |
| 82.5° | 103.7 | 103.7 | 120.4 | 140.5 | 157.2 | 167.2 | 187.3 | 204.0 | 214.1 | 207.4 | 197.3 |
| 85° | 53.5 | 56.9 | 70.2 | 87.0 | 100.3 | 107.0 | 103.7 | 93.7 | 83.6 | 80.3 | 73.6 |
| 87.5° | 16.7 | 16.7 | 20.1 | 20.1 | 16.7 | 16.7 | 20.1 | 16.7 | 20.1 | 20.1 | 20.1 |
| 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)