

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: P651161

Luminaire Tested: **GALN-SA1D-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4522.1 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

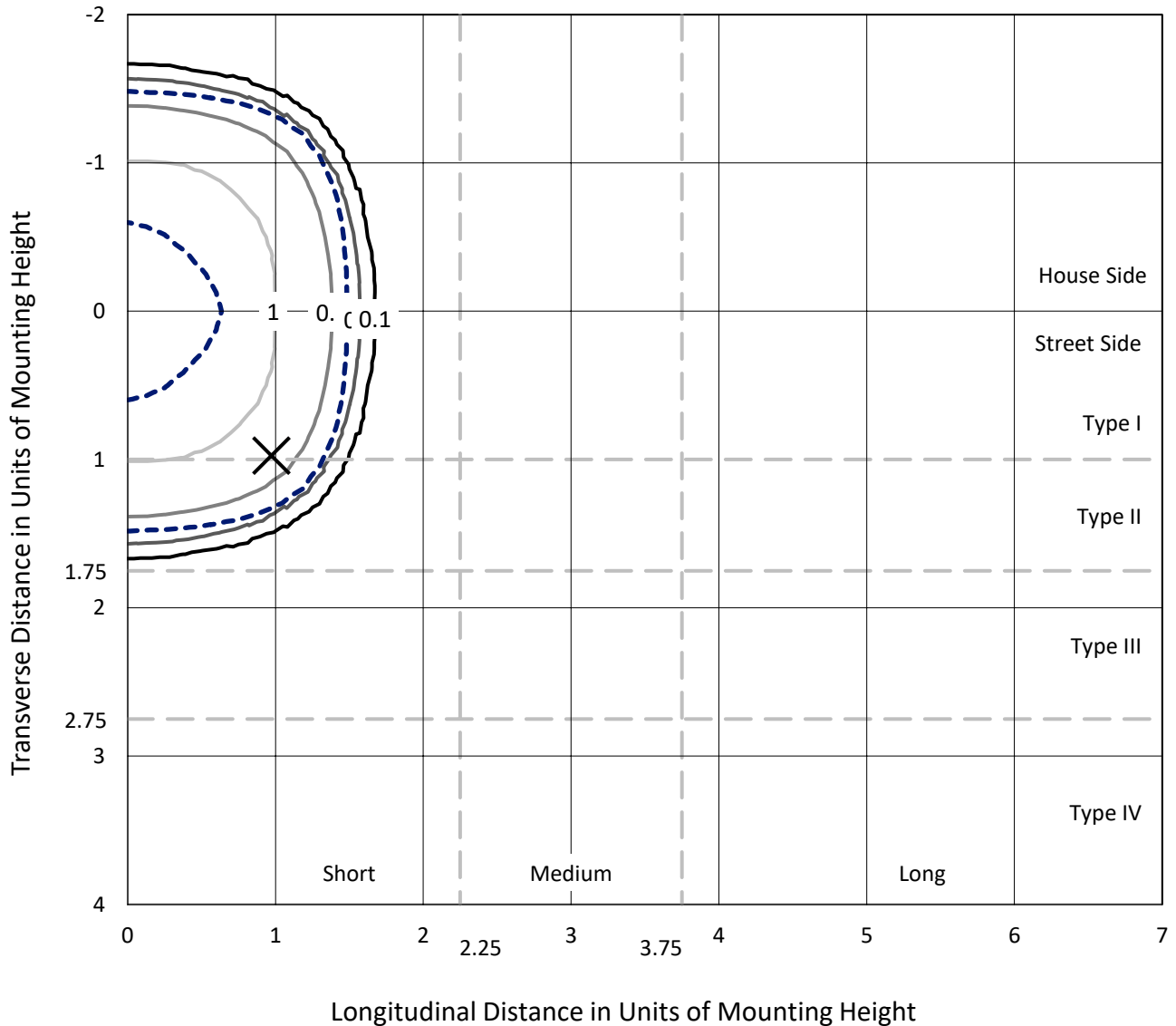
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

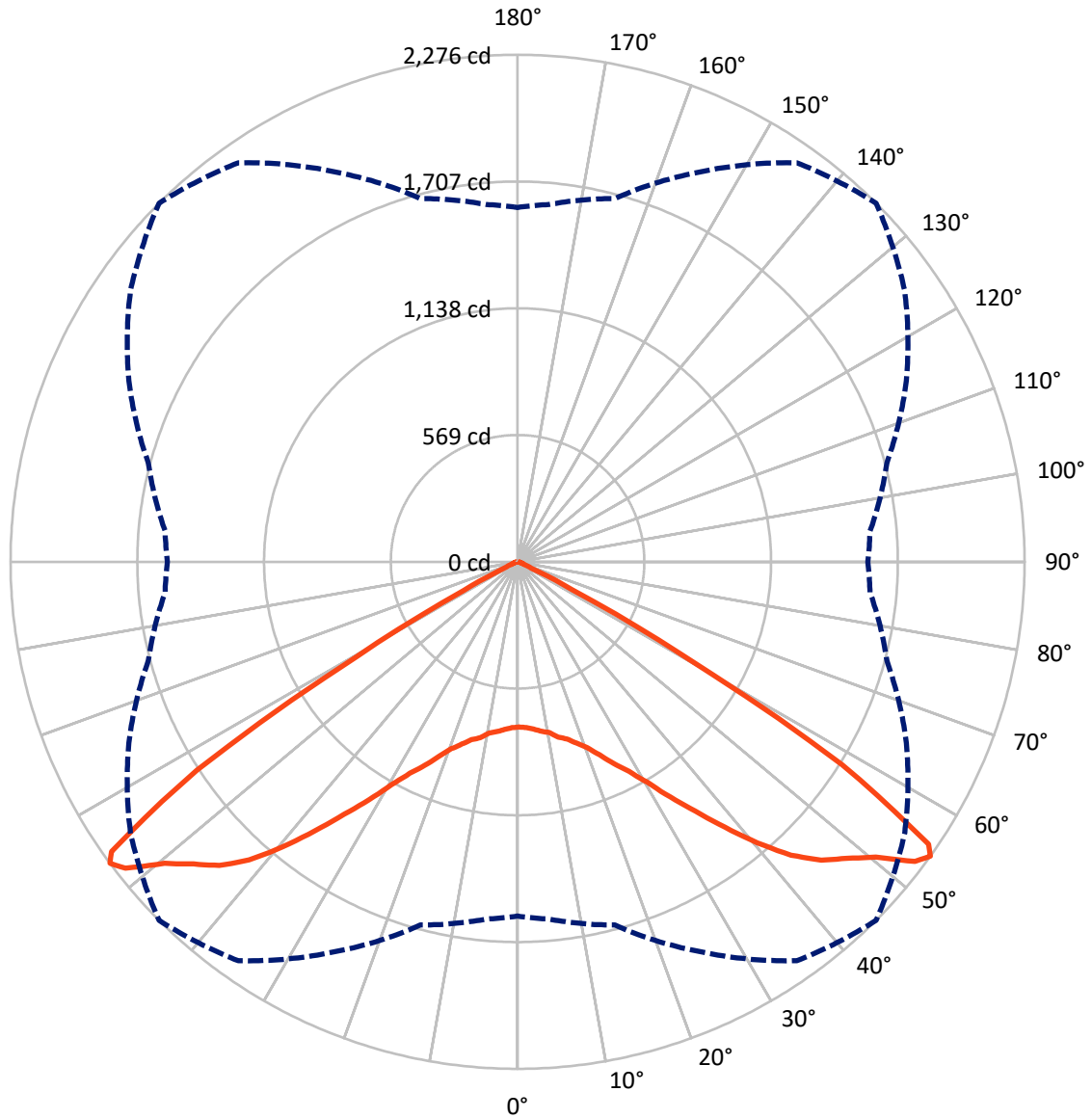
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2261.0   | 0.0    | 2261.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2261.0   | 0.0    | 2261.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4522.1   | 0.0    | 4522.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.6   | 1.6       |
| 10°-20°   | 235.0  | 5.2       |
| 20°-30°   | 460.6  | 10.2      |
| 30°-40°   | 828.3  | 18.3      |
| 40°-50°   | 1417.9 | 31.4      |
| 50°-60°   | 1371.9 | 30.3      |
| 60°-70°   | 117.4  | 2.6       |
| 70°-80°   | 13.9   | 0.3       |
| 80°-90°   | 4.4    | 0.1       |
| 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°    | 4522.1 | 100.0     |
| 0°-180°   | 4522.1 | 100.0     |

**Coefficient of Utilization**



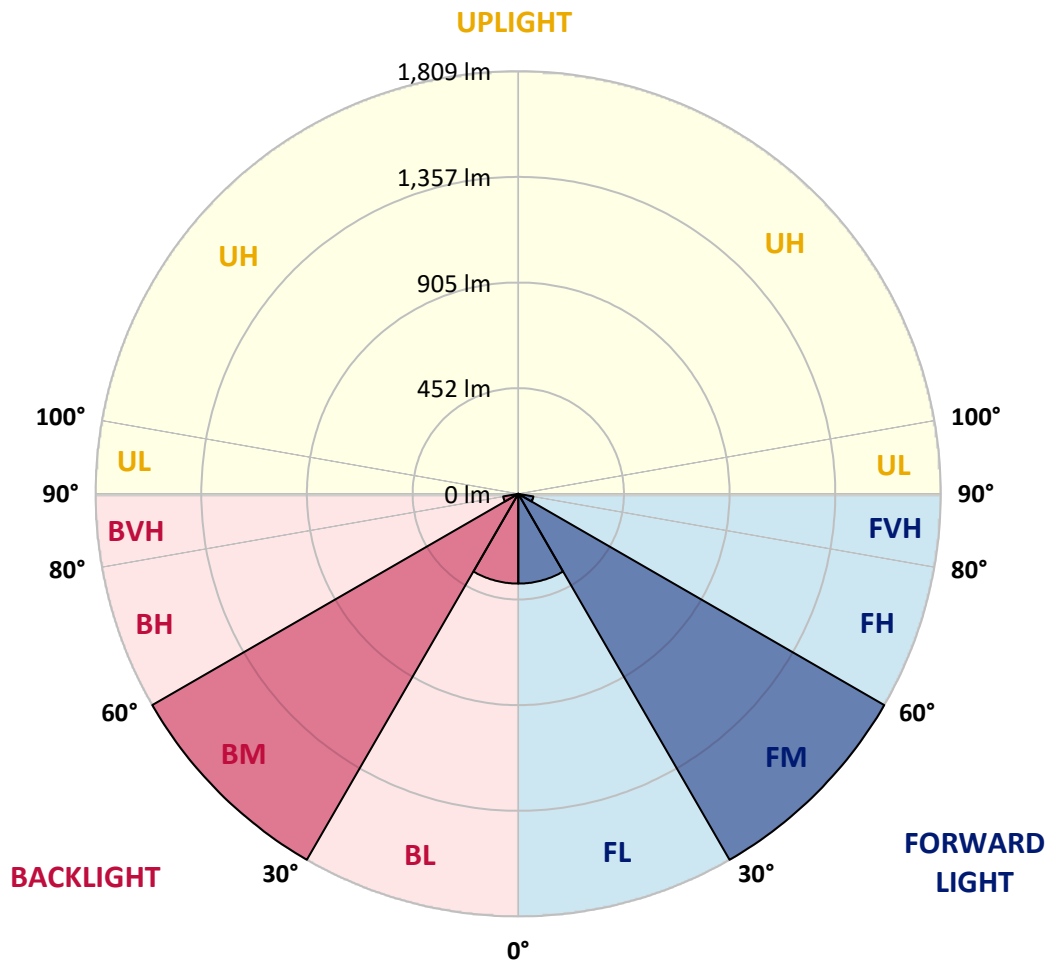
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 384.1  | 8.5       |                         |      |        |
| FM (30°-60°)   | 1809.1 | 40.0      |                         |      |        |
| FH (60°-80°)   | 65.7   | 1.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 2.2    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 384.1  | 8.5       | B1/500                  |      |        |
| BM (30°-60°)   | 1809.1 | 40.0      | B2/2500                 |      |        |
| BH (60°-80°)   | 65.7   | 1.5       | B0/110                  |      | G0/660 |
| BVH (80°-90°)  | 2.2    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 741.5  | 741.5  | 741.5  | 741.5  | 741.5  | 741.5  | 741.5  | 741.5  | 741.5  | 741.5  | 741.5  |
| 2.5°  | 745.0  | 749.3  | 746.5  | 748.7  | 748.7  | 745.0  | 747.2  | 738.7  | 744.4  | 740.1  | 740.8  |
| 5°    | 756.5  | 755.8  | 755.8  | 756.5  | 753.6  | 755.0  | 752.2  | 749.3  | 747.2  | 744.4  | 752.9  |
| 7.5°  | 770.9  | 770.9  | 765.8  | 767.2  | 765.8  | 768.0  | 762.3  | 756.5  | 754.4  | 752.2  | 750.8  |
| 10°   | 784.5  | 783.1  | 780.9  | 787.3  | 782.3  | 779.4  | 776.6  | 773.0  | 765.1  | 762.3  | 759.4  |
| 12.5° | 804.5  | 803.8  | 801.0  | 807.4  | 804.5  | 807.4  | 796.7  | 787.3  | 785.9  | 776.6  | 781.6  |
| 15°   | 828.1  | 834.6  | 829.6  | 829.6  | 828.1  | 824.6  | 820.3  | 816.0  | 803.1  | 799.5  | 800.2  |
| 17.5° | 859.0  | 856.8  | 857.6  | 857.6  | 864.7  | 855.4  | 846.8  | 836.0  | 829.6  | 827.5  | 820.3  |
| 20°   | 888.3  | 891.2  | 890.5  | 895.5  | 899.8  | 889.8  | 880.4  | 879.0  | 861.1  | 864.0  | 854.0  |
| 22.5° | 939.9  | 937.8  | 941.3  | 944.9  | 942.1  | 940.7  | 932.1  | 921.3  | 905.5  | 898.4  | 896.9  |
| 25°   | 994.4  | 990.8  | 984.3  | 993.0  | 997.3  | 1003.6 | 987.2  | 981.4  | 957.1  | 946.4  | 947.1  |
| 27.5° | 1040.9 | 1046.0 | 1053.1 | 1056.7 | 1067.5 | 1065.3 | 1053.9 | 1035.2 | 1016.6 | 1004.4 | 996.5  |
| 30°   | 1104.7 | 1107.6 | 1119.7 | 1124.8 | 1143.3 | 1148.4 | 1130.5 | 1109.0 | 1076.1 | 1060.2 | 1051.0 |
| 32.5° | 1163.4 | 1183.5 | 1182.8 | 1207.8 | 1238.0 | 1258.7 | 1226.5 | 1193.5 | 1160.6 | 1141.9 | 1125.4 |
| 35°   | 1258.7 | 1255.1 | 1275.9 | 1302.5 | 1351.2 | 1374.8 | 1339.7 | 1301.7 | 1251.6 | 1221.5 | 1208.6 |
| 37.5° | 1347.5 | 1349.0 | 1376.9 | 1419.2 | 1475.1 | 1511.6 | 1480.8 | 1418.5 | 1366.9 | 1328.2 | 1310.3 |
| 40°   | 1476.5 | 1479.4 | 1508.0 | 1556.0 | 1619.1 | 1658.5 | 1622.6 | 1559.6 | 1490.8 | 1460.7 | 1460.7 |
| 42.5° | 1627.7 | 1639.9 | 1658.5 | 1700.0 | 1756.6 | 1800.3 | 1768.1 | 1718.7 | 1649.1 | 1610.4 | 1616.2 |
| 45°   | 1783.1 | 1788.9 | 1801.0 | 1862.6 | 1889.1 | 1910.7 | 1880.6 | 1857.6 | 1811.1 | 1763.7 | 1755.9 |
| 47.5° | 1928.6 | 1930.7 | 1966.5 | 1985.9 | 2006.6 | 1988.7 | 2008.1 | 1977.9 | 1925.7 | 1879.8 | 1870.6 |
| 50°   | 1993.0 | 1989.5 | 2040.4 | 2099.1 | 2114.8 | 2083.3 | 2066.8 | 2046.7 | 1967.3 | 1912.1 | 1887.7 |
| 52.5° | 1805.4 | 1826.1 | 1920.7 | 2084.0 | 2207.2 | 2233.8 | 2137.7 | 2045.3 | 1897.0 | 1789.6 | 1773.1 |
| 54°   | 1590.4 | 1609.8 | 1687.8 | 1930.0 | 2186.4 | 2276.0 | 2121.3 | 1925.0 | 1715.8 | 1588.2 | 1571.7 |
| 55°   | 1377.6 | 1356.1 | 1498.0 | 1745.2 | 2089.0 | 2238.7 | 2056.1 | 1769.5 | 1530.2 | 1413.5 | 1390.5 |
| 57.5° | 745.8  | 749.3  | 869.0  | 1102.6 | 1467.9 | 1716.5 | 1515.9 | 1197.1 | 904.1  | 773.0  | 761.5  |
| 60°   | 236.4  | 242.1  | 294.4  | 445.6  | 701.4  | 837.5  | 717.8  | 480.7  | 332.4  | 266.5  | 255.7  |
| 62.5° | 73.8   | 76.6   | 83.8   | 124.6  | 192.0  | 274.4  | 215.0  | 128.9  | 96.0   | 88.1   | 89.6   |
| 65°   | 45.2   | 45.2   | 45.8   | 48.7   | 57.3   | 66.6   | 64.5   | 56.6   | 54.4   | 53.0   | 52.3   |
| 67.5° | 29.4   | 28.7   | 30.1   | 32.2   | 33.6   | 34.4   | 36.5   | 38.7   | 37.9   | 36.5   | 36.5   |
| 70°   | 17.9   | 17.2   | 18.6   | 21.5   | 22.2   | 23.6   | 25.8   | 28.7   | 27.9   | 26.5   | 27.2   |
| 72.5° | 10.0   | 10.0   | 10.8   | 12.9   | 15.1   | 16.5   | 18.6   | 20.8   | 21.5   | 20.8   | 20.8   |
| 75°   | 3.6    | 4.3    | 5.7    | 7.9    | 9.3    | 11.4   | 13.6   | 15.7   | 17.9   | 16.5   | 15.7   |
| 77.5° | 1.4    | 1.4    | 2.9    | 5.0    | 7.1    | 9.3    | 12.9   | 15.1   | 16.5   | 15.1   | 13.6   |
| 80°   | 0.8    | 0.8    | 2.2    | 4.3    | 6.5    | 8.6    | 10.8   | 12.9   | 13.6   | 12.2   | 10.8   |
| 82.5° | 0.8    | 0.8    | 2.2    | 4.3    | 6.5    | 7.9    | 11.4   | 12.9   | 14.3   | 12.9   | 10.8   |
| 85°   | 0.0    | 0.8    | 2.2    | 4.3    | 5.7    | 6.5    | 6.5    | 4.3    | 3.6    | 2.2    | 2.2    |
| 87.5° | 0.0    | 0.0    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)