

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: P650677

Luminaire Tested: **GALN-SA1C-840-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650677  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-840-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5242.8 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

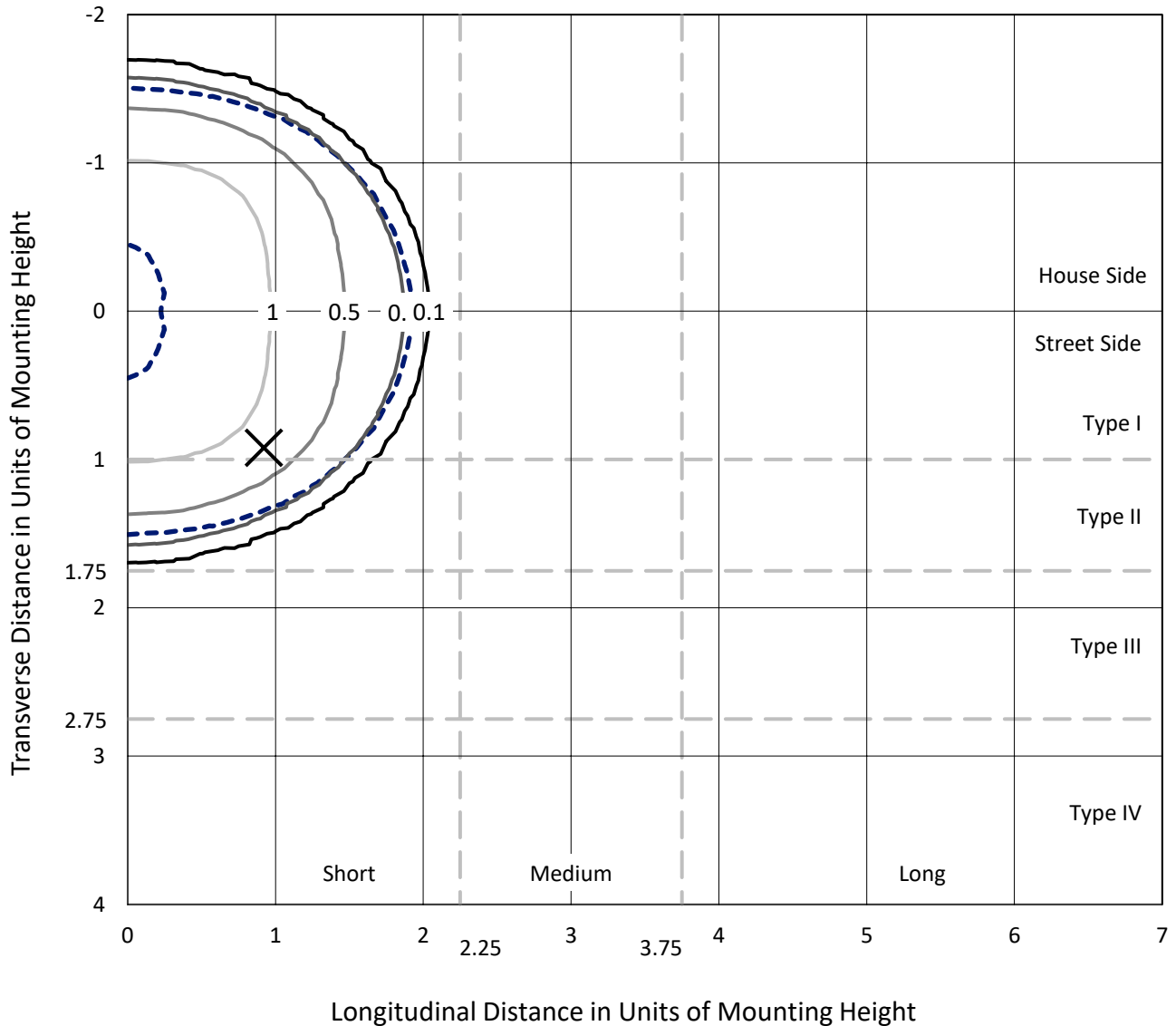
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

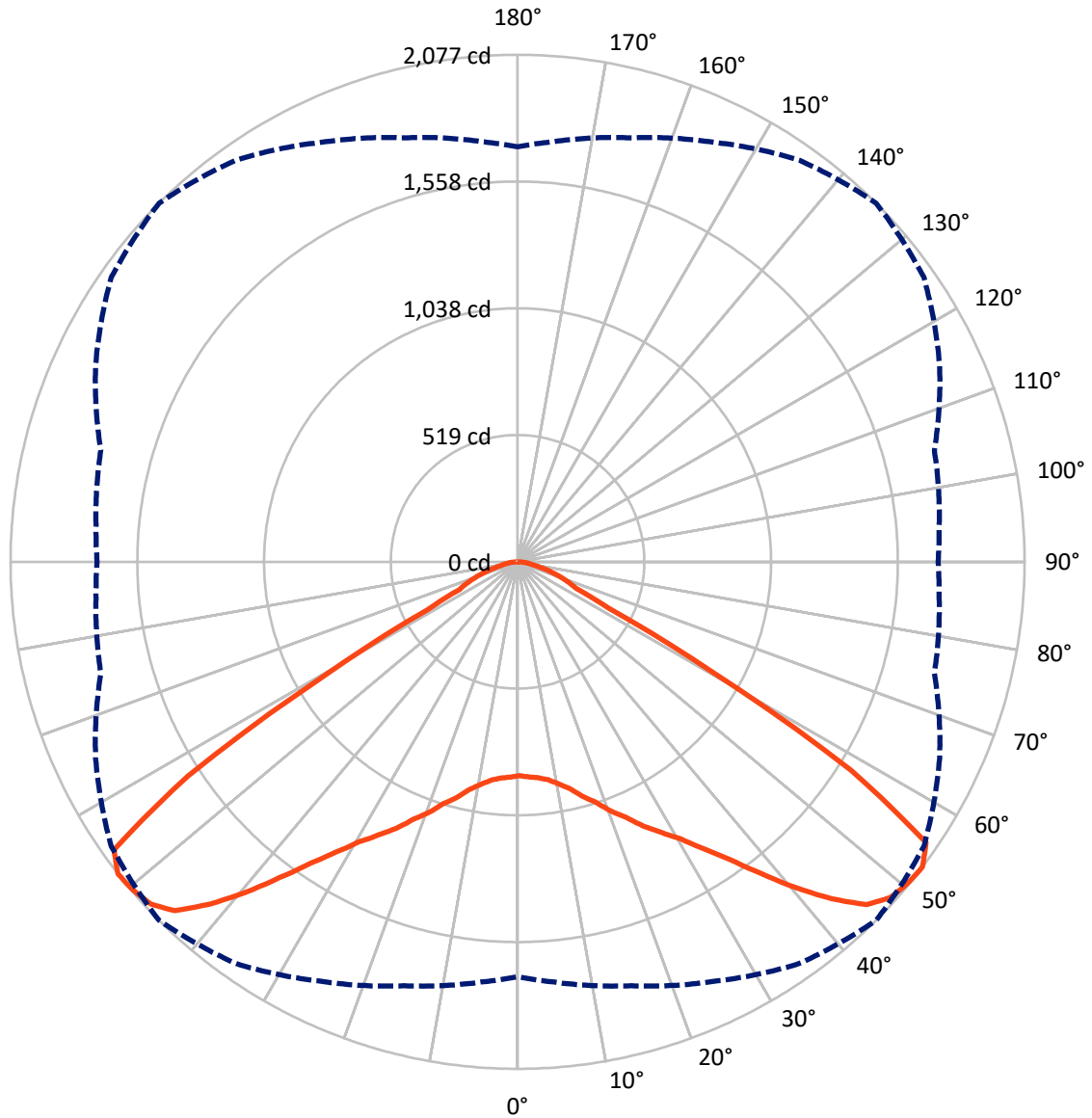
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2621.4   | 0.0    | 2621.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2621.4   | 0.0    | 2621.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5242.8   | 0.0    | 5242.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.1   | 1.6       |
| 10°-20°   | 282.9  | 5.4       |
| 20°-30°   | 538.7  | 10.3      |
| 30°-40°   | 924.9  | 17.6      |
| 40°-50°   | 1421.6 | 27.1      |
| 50°-60°   | 1443.6 | 27.5      |
| 60°-70°   | 402.3  | 7.7       |
| 70°-80°   | 118.7  | 2.3       |
| 80°-90°   | 23.9   | 0.5       |
| 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°    | 5242.8 | 100.0     |
| 0°-180°   | 5242.8 | 100.0     |

**Coefficient of Utilization**

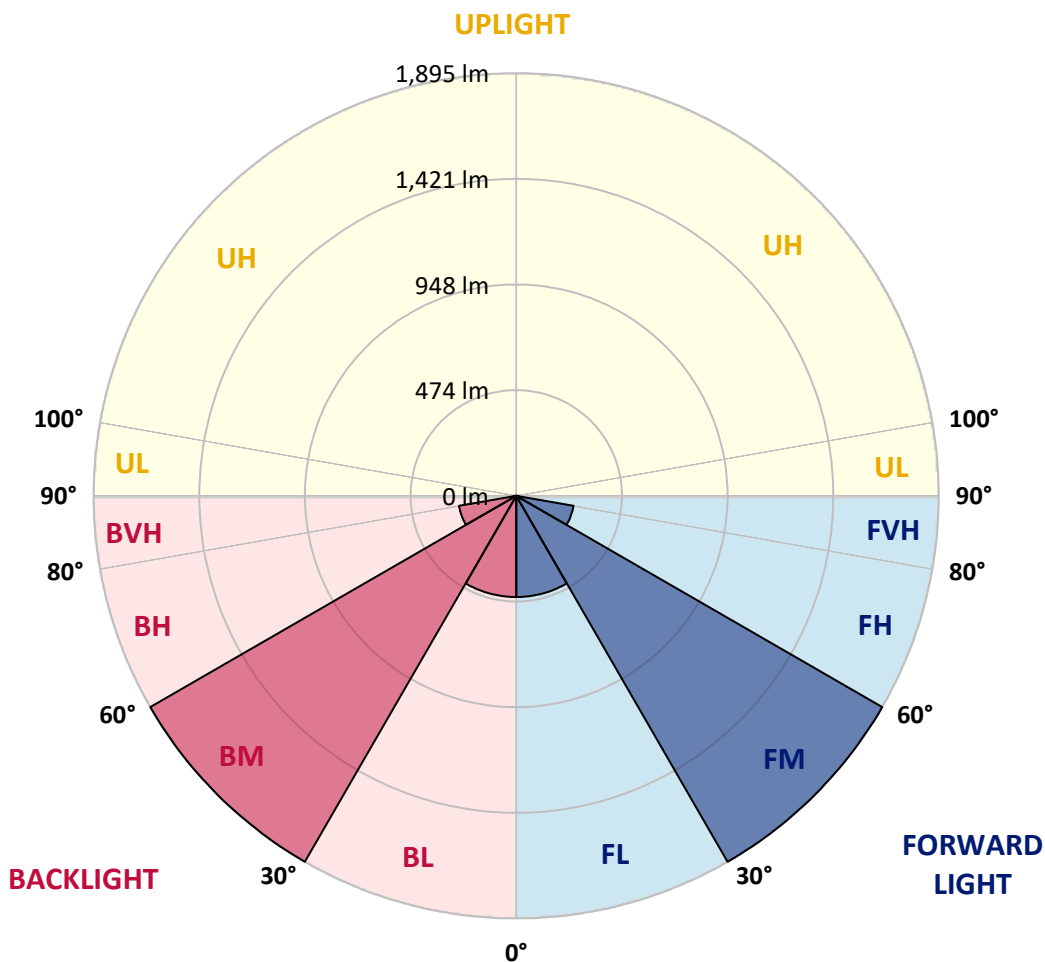


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 453.8  | 8.7       |                         |      |        |
| FM (30°-60°)   | 1895.1 | 36.1      |                         |      |        |
| FH (60°-80°)   | 260.5  | 5.0       |                         |      | G0/660 |
| FVH (80°-90°)  | 12.0   | 0.2       |                         |      | G1/100 |
| BL (0°-30°)    | 453.8  | 8.7       | B1/500                  |      |        |
| BM (30°-60°)   | 1895.1 | 36.1      | B2/2500                 |      |        |
| BH (60°-80°)   | 260.5  | 5.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 12.0   | 0.2       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 876.4  | 876.4  | 876.4  | 876.4  | 876.4  | 876.4  | 876.4  | 876.4  | 876.4  | 876.4  | 876.4  |
| 2.5°  | 878.3  | 869.3  | 872.5  | 874.5  | 882.9  | 882.3  | 880.3  | 882.9  | 885.5  | 886.2  | 884.9  |
| 5°    | 877.7  | 871.2  | 873.8  | 875.7  | 884.2  | 888.8  | 887.4  | 898.5  | 906.3  | 904.4  | 914.2  |
| 7.5°  | 872.5  | 876.4  | 873.1  | 882.9  | 890.0  | 901.1  | 912.8  | 923.2  | 933.0  | 944.1  | 946.0  |
| 10°   | 884.2  | 884.2  | 890.0  | 897.9  | 916.8  | 925.2  | 942.1  | 957.1  | 976.0  | 988.9  | 983.7  |
| 12.5° | 896.6  | 898.5  | 898.5  | 918.7  | 934.3  | 953.2  | 968.8  | 988.9  | 1015.7 | 1031.2 | 1039.1 |
| 15°   | 909.0  | 910.2  | 916.8  | 944.1  | 967.5  | 997.4  | 1011.7 | 1030.0 | 1044.9 | 1074.2 | 1074.9 |
| 17.5° | 920.0  | 927.1  | 946.6  | 977.2  | 1006.5 | 1035.2 | 1057.9 | 1076.8 | 1089.8 | 1101.5 | 1098.9 |
| 20°   | 961.6  | 966.8  | 987.0  | 1017.6 | 1061.2 | 1089.2 | 1097.0 | 1100.2 | 1108.7 | 1132.1 | 1124.9 |
| 22.5° | 1002.0 | 1003.9 | 1022.8 | 1069.7 | 1100.2 | 1137.3 | 1145.8 | 1143.8 | 1147.0 | 1152.9 | 1163.4 |
| 25°   | 1043.6 | 1046.9 | 1072.9 | 1112.6 | 1155.5 | 1199.8 | 1206.9 | 1191.9 | 1187.4 | 1193.9 | 1194.6 |
| 27.5° | 1097.0 | 1097.6 | 1130.8 | 1165.3 | 1214.1 | 1255.7 | 1266.8 | 1255.1 | 1233.6 | 1238.8 | 1247.3 |
| 30°   | 1164.6 | 1160.1 | 1193.3 | 1242.7 | 1294.1 | 1317.5 | 1336.4 | 1330.5 | 1307.1 | 1302.5 | 1295.4 |
| 32.5° | 1242.7 | 1244.0 | 1273.9 | 1327.9 | 1361.7 | 1400.9 | 1421.0 | 1411.2 | 1396.2 | 1388.5 | 1393.0 |
| 35°   | 1352.7 | 1358.6 | 1378.7 | 1423.6 | 1478.2 | 1497.7 | 1529.6 | 1508.8 | 1469.8 | 1479.6 | 1488.0 |
| 37.5° | 1443.1 | 1460.1 | 1497.7 | 1551.1 | 1583.6 | 1619.4 | 1631.1 | 1603.2 | 1574.5 | 1562.8 | 1590.8 |
| 40°   | 1581.7 | 1576.5 | 1618.1 | 1671.5 | 1719.6 | 1755.4 | 1740.4 | 1712.4 | 1641.5 | 1642.2 | 1650.0 |
| 42.5° | 1700.8 | 1703.4 | 1735.2 | 1799.0 | 1864.7 | 1886.9 | 1839.4 | 1771.1 | 1692.3 | 1683.9 | 1700.8 |
| 45°   | 1800.9 | 1811.3 | 1829.6 | 1914.8 | 1979.2 | 2003.3 | 1915.5 | 1834.8 | 1729.3 | 1694.3 | 1722.2 |
| 47.5° | 1836.7 | 1853.6 | 1893.3 | 1971.4 | 2035.2 | 2054.7 | 1984.4 | 1868.6 | 1763.8 | 1706.6 | 1721.6 |
| 50°   | 1842.0 | 1836.1 | 1901.2 | 1972.7 | 2028.7 | 2071.0 | 2009.1 | 1893.3 | 1755.4 | 1725.5 | 1720.9 |
| 52.5° | 1699.5 | 1728.1 | 1797.7 | 1896.0 | 2009.1 | 2076.8 | 2031.3 | 1907.0 | 1767.1 | 1733.3 | 1722.2 |
| 55°   | 1375.5 | 1341.6 | 1468.5 | 1633.7 | 1842.0 | 2030.0 | 2023.4 | 1914.2 | 1774.3 | 1746.3 | 1731.4 |
| 57.5° | 767.7  | 777.5  | 849.1  | 1028.6 | 1297.3 | 1609.7 | 1799.0 | 1838.7 | 1771.1 | 1754.7 | 1762.6 |
| 60°   | 355.2  | 358.5  | 389.0  | 473.0  | 639.6  | 912.8  | 1162.0 | 1415.2 | 1531.6 | 1555.0 | 1555.0 |
| 62.5° | 264.8  | 263.5  | 271.3  | 286.3  | 321.4  | 419.7  | 560.2  | 761.3  | 921.3  | 1033.2 | 1062.5 |
| 65°   | 239.4  | 238.8  | 242.7  | 247.9  | 250.5  | 264.2  | 295.4  | 357.2  | 409.2  | 439.2  | 434.0  |
| 67.5° | 209.5  | 208.8  | 210.2  | 213.4  | 218.0  | 225.1  | 233.0  | 245.9  | 264.2  | 262.9  | 259.6  |
| 70°   | 169.1  | 169.1  | 171.1  | 173.8  | 179.0  | 187.4  | 196.5  | 205.6  | 221.2  | 224.5  | 223.8  |
| 72.5° | 124.9  | 123.0  | 126.9  | 132.0  | 137.3  | 147.7  | 157.4  | 165.9  | 176.9  | 180.2  | 179.0  |
| 75°   | 79.4   | 80.7   | 83.3   | 89.1   | 98.2   | 105.4  | 115.8  | 123.0  | 130.1  | 132.7  | 133.4  |
| 77.5° | 44.2   | 45.6   | 50.1   | 57.3   | 66.4   | 74.2   | 83.3   | 89.1   | 93.7   | 94.4   | 95.0   |
| 80°   | 26.7   | 27.3   | 31.9   | 38.3   | 46.2   | 54.7   | 61.8   | 67.7   | 71.6   | 69.6   | 69.0   |
| 82.5° | 16.2   | 16.9   | 20.9   | 26.7   | 33.2   | 39.7   | 47.5   | 52.7   | 56.6   | 54.0   | 51.4   |
| 85°   | 8.5    | 9.1    | 12.4   | 16.2   | 21.4   | 24.7   | 24.7   | 22.1   | 21.4   | 20.2   | 19.5   |
| 87.5° | 2.6    | 2.6    | 3.3    | 3.9    | 3.3    | 3.9    | 4.5    | 5.2    | 5.2    | 5.9    | 5.2    |
| 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)