

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: P527397

Luminaire Tested: **GALN-SA2B-830-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-830-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5877 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

Input Watts (W): 82  
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



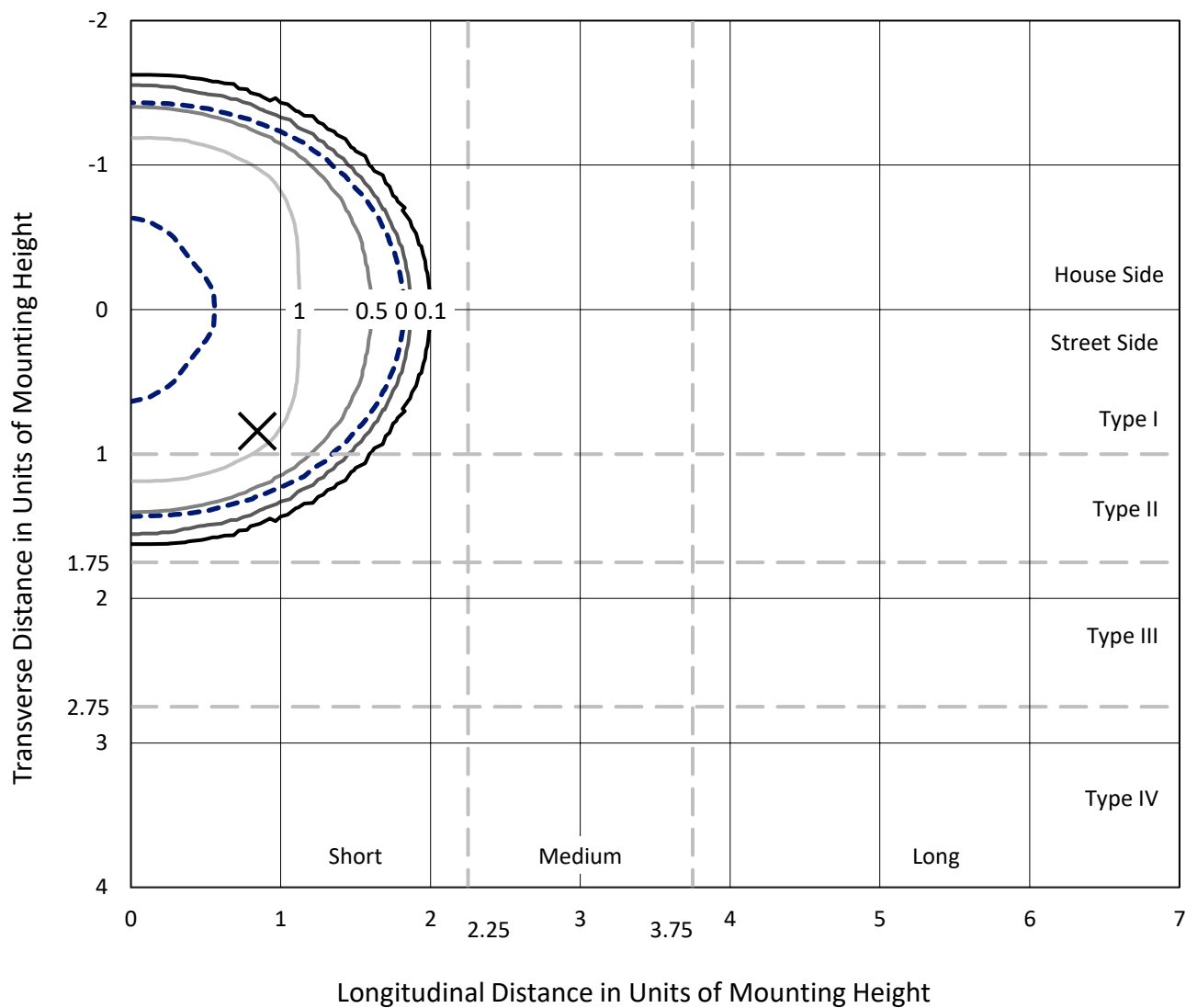
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

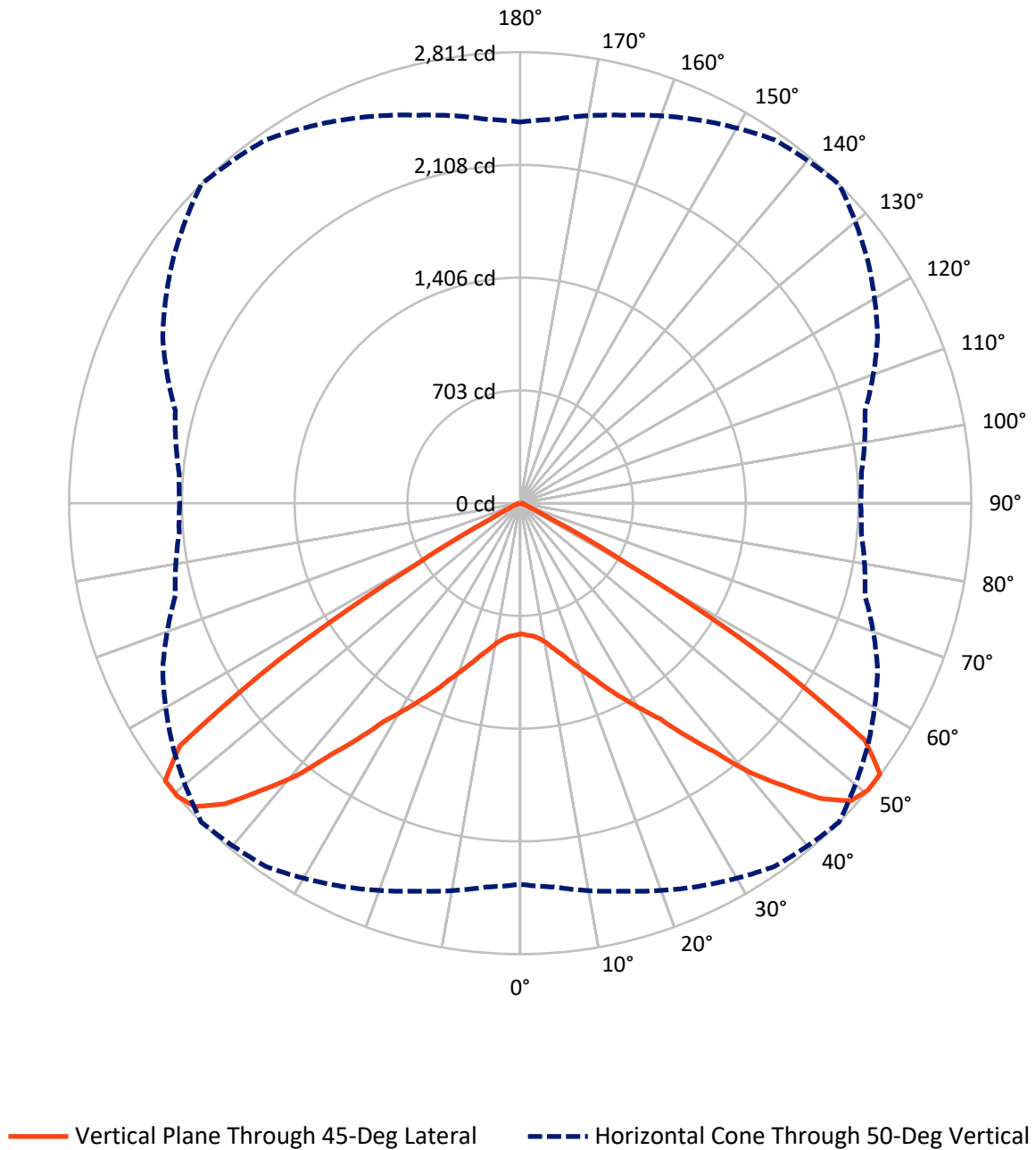


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2938.5   | 0.0    | 2938.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2938.5   | 0.0    | 2938.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5877.0   | 0.0    | 5877.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.1   | 1.4       |
| 10°-20°   | 279.4  | 4.8       |
| 20°-30°   | 570.6  | 9.7       |
| 30°-40°   | 1088.1 | 18.5      |
| 40°-50°   | 1833.6 | 31.2      |
| 50°-60°   | 1748.7 | 29.8      |
| 60°-70°   | 244.1  | 4.2       |
| 70°-80°   | 23.4   | 0.4       |
| 80°-90°   | 8.1    | 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°    | 5877.0 | 100.0     |
| 0°-180°   | 5877.0 | 100.0     |

**Coefficient of Utilization**



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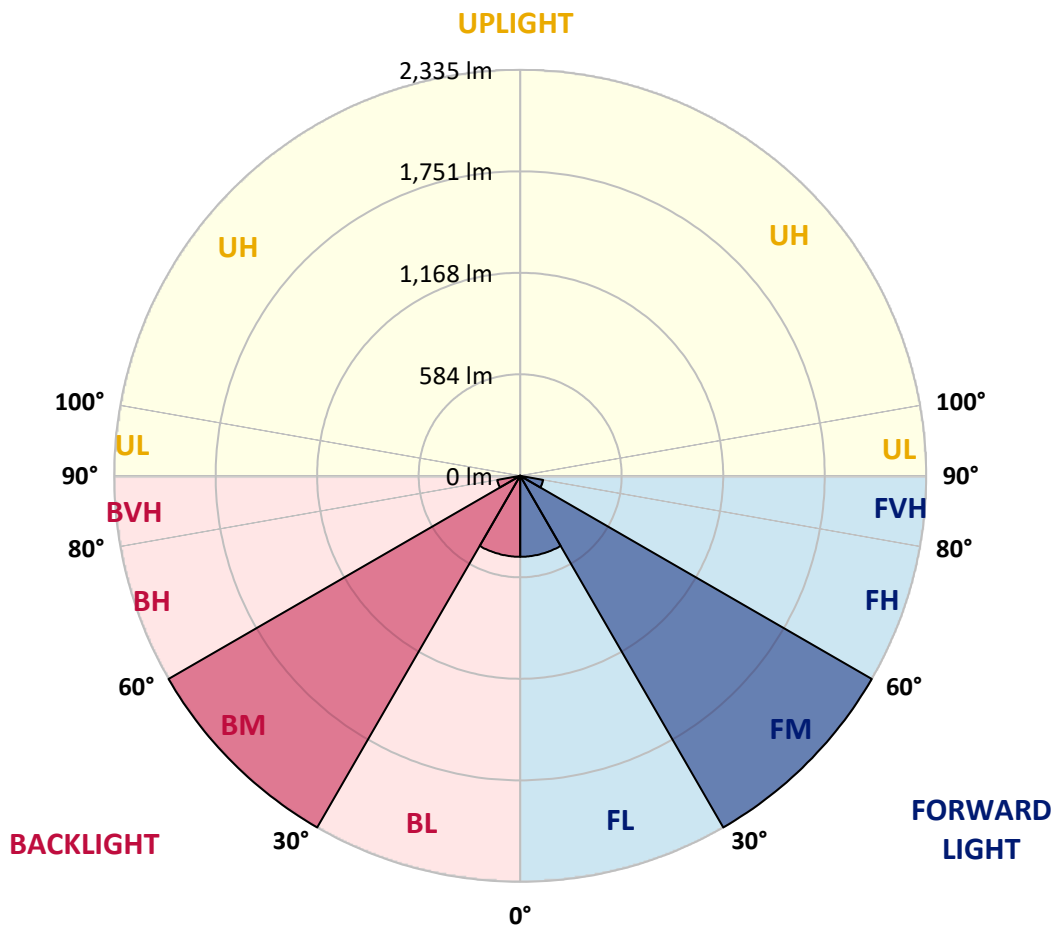
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 465.5  | 7.9       |                         |      |        |
| FM   | (30°-60°)   | 2335.2 | 39.7      |                         |      |        |
| FH   | (60°-80°)   | 133.7  | 2.3       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 4.0    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 465.5  | 7.9       | B1/500                  |      |        |
| BM   | (30°-60°)   | 2335.2 | 39.7      | B2/2500                 |      |        |
| BH   | (60°-80°)   | 133.7  | 2.3       | B1/500                  |      | G0/660 |
| BVH  | (80°-90°)   | 4.0    | 0.1       |                         |      | 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°    | 814.8  | 814.8  | 814.8  | 814.8  | 814.8  | 814.8  | 814.8  | 814.8  | 814.8  | 814.8  | 814.8  |
| 2.5°  | 811.8  | 811.8  | 810.8  | 818.7  | 814.8  | 823.7  | 822.7  | 825.7  | 828.6  | 827.6  | 835.5  |
| 5°    | 804.9  | 803.9  | 803.9  | 812.8  | 821.7  | 831.6  | 840.5  | 846.4  | 856.3  | 856.3  | 866.2  |
| 7.5°  | 811.8  | 806.9  | 813.8  | 817.7  | 834.6  | 851.4  | 866.2  | 878.1  | 900.8  | 908.7  | 905.8  |
| 10°   | 813.8  | 819.7  | 824.7  | 836.5  | 857.3  | 883.0  | 895.9  | 925.5  | 951.2  | 969.0  | 973.0  |
| 12.5° | 826.6  | 835.5  | 849.4  | 878.1  | 896.9  | 930.5  | 948.3  | 976.9  | 1012.5 | 1032.3 | 1046.2 |
| 15°   | 851.4  | 854.3  | 872.1  | 908.7  | 949.3  | 979.9  | 1007.6 | 1028.4 | 1063.0 | 1085.7 | 1086.7 |
| 17.5° | 883.0  | 895.9  | 920.6  | 955.2  | 997.7  | 1043.2 | 1065.0 | 1087.7 | 1100.5 | 1131.2 | 1138.1 |
| 20°   | 946.3  | 948.3  | 972.0  | 1017.5 | 1070.9 | 1112.4 | 1128.2 | 1140.1 | 1135.2 | 1166.8 | 1172.7 |
| 22.5° | 1005.6 | 1007.6 | 1037.3 | 1098.6 | 1155.9 | 1191.5 | 1198.4 | 1191.5 | 1176.7 | 1199.4 | 1201.4 |
| 25°   | 1065.9 | 1083.7 | 1105.5 | 1166.8 | 1238.0 | 1285.5 | 1286.4 | 1267.7 | 1237.0 | 1241.0 | 1250.8 |
| 27.5° | 1159.9 | 1172.7 | 1195.5 | 1251.8 | 1330.0 | 1383.3 | 1374.4 | 1351.7 | 1312.2 | 1315.1 | 1312.2 |
| 30°   | 1269.6 | 1281.5 | 1300.3 | 1372.5 | 1429.8 | 1488.2 | 1501.0 | 1479.3 | 1419.9 | 1407.1 | 1421.9 |
| 32.5° | 1402.1 | 1418.9 | 1453.6 | 1519.8 | 1568.3 | 1603.9 | 1612.8 | 1604.8 | 1549.5 | 1544.5 | 1554.4 |
| 35°   | 1563.3 | 1586.1 | 1617.7 | 1676.0 | 1715.6 | 1779.9 | 1779.9 | 1753.2 | 1702.7 | 1708.7 | 1707.7 |
| 37.5° | 1733.4 | 1767.0 | 1816.4 | 1875.8 | 1929.2 | 1963.8 | 1952.9 | 1930.2 | 1879.7 | 1866.9 | 1879.7 |
| 40°   | 1947.0 | 1963.8 | 2026.1 | 2103.2 | 2168.5 | 2208.0 | 2161.5 | 2112.1 | 1991.5 | 2010.3 | 2044.9 |
| 42.5° | 2141.8 | 2168.5 | 2215.9 | 2301.0 | 2375.1 | 2407.8 | 2352.4 | 2254.5 | 2109.1 | 2094.3 | 2120.0 |
| 45°   | 2307.9 | 2336.6 | 2398.9 | 2520.5 | 2598.6 | 2627.3 | 2504.7 | 2346.5 | 2180.3 | 2142.8 | 2153.6 |
| 47.5° | 2418.6 | 2433.5 | 2520.5 | 2636.2 | 2707.4 | 2772.6 | 2596.6 | 2409.7 | 2214.0 | 2142.8 | 2138.8 |
| 50°   | 2376.1 | 2401.8 | 2503.7 | 2635.2 | 2764.7 | 2811.2 | 2643.1 | 2458.2 | 2224.8 | 2133.9 | 2122.0 |
| 52.5° | 2110.1 | 2154.6 | 2268.3 | 2445.3 | 2641.1 | 2807.2 | 2707.4 | 2442.4 | 2220.9 | 2142.8 | 2160.6 |
| 55°   | 1468.4 | 1469.4 | 1607.8 | 1868.9 | 2214.9 | 2606.5 | 2613.4 | 2460.2 | 2246.6 | 2198.1 | 2199.1 |
| 57.5° | 590.3  | 620.0  | 725.8  | 987.8  | 1307.2 | 1789.8 | 2127.9 | 2282.2 | 2249.5 | 2237.7 | 2268.3 |
| 60°   | 149.3  | 150.3  | 182.9  | 278.8  | 459.8  | 767.3  | 1114.4 | 1507.9 | 1736.4 | 1814.5 | 1825.3 |
| 62.5° | 76.1   | 77.1   | 85.0   | 98.9   | 125.6  | 205.7  | 365.9  | 580.4  | 825.7  | 950.2  | 982.9  |
| 65°   | 62.3   | 62.3   | 67.2   | 74.2   | 75.1   | 79.1   | 94.9   | 135.5  | 196.8  | 223.5  | 226.4  |
| 67.5° | 47.5   | 47.5   | 51.4   | 55.4   | 57.4   | 56.4   | 54.4   | 56.4   | 68.2   | 65.3   | 63.3   |
| 70°   | 29.7   | 30.7   | 32.6   | 36.6   | 38.6   | 39.6   | 40.5   | 42.5   | 48.5   | 50.4   | 48.5   |
| 72.5° | 17.8   | 17.8   | 18.8   | 21.8   | 24.7   | 26.7   | 29.7   | 31.6   | 34.6   | 39.6   | 38.6   |
| 75°   | 7.9    | 7.9    | 9.9    | 12.9   | 15.8   | 18.8   | 21.8   | 24.7   | 26.7   | 29.7   | 30.7   |
| 77.5° | 2.0    | 3.0    | 4.9    | 8.9    | 11.9   | 15.8   | 19.8   | 22.7   | 24.7   | 24.7   | 23.7   |
| 80°   | 1.0    | 1.0    | 4.0    | 6.9    | 12.9   | 16.8   | 21.8   | 23.7   | 26.7   | 24.7   | 21.8   |
| 82.5° | 1.0    | 1.0    | 4.0    | 6.9    | 11.9   | 16.8   | 22.7   | 25.7   | 27.7   | 24.7   | 20.8   |
| 85°   | 0.0    | 1.0    | 3.0    | 5.9    | 9.9    | 11.9   | 9.9    | 6.9    | 4.0    | 4.0    | 3.0    |
| 87.5° | 0.0    | 0.0    | 1.0    | 1.0    | 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)