

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: P528303

Luminaire Tested: **GALN-SA3B-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6513 lumens
Efficiency: N/A
Efficacy: 53.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

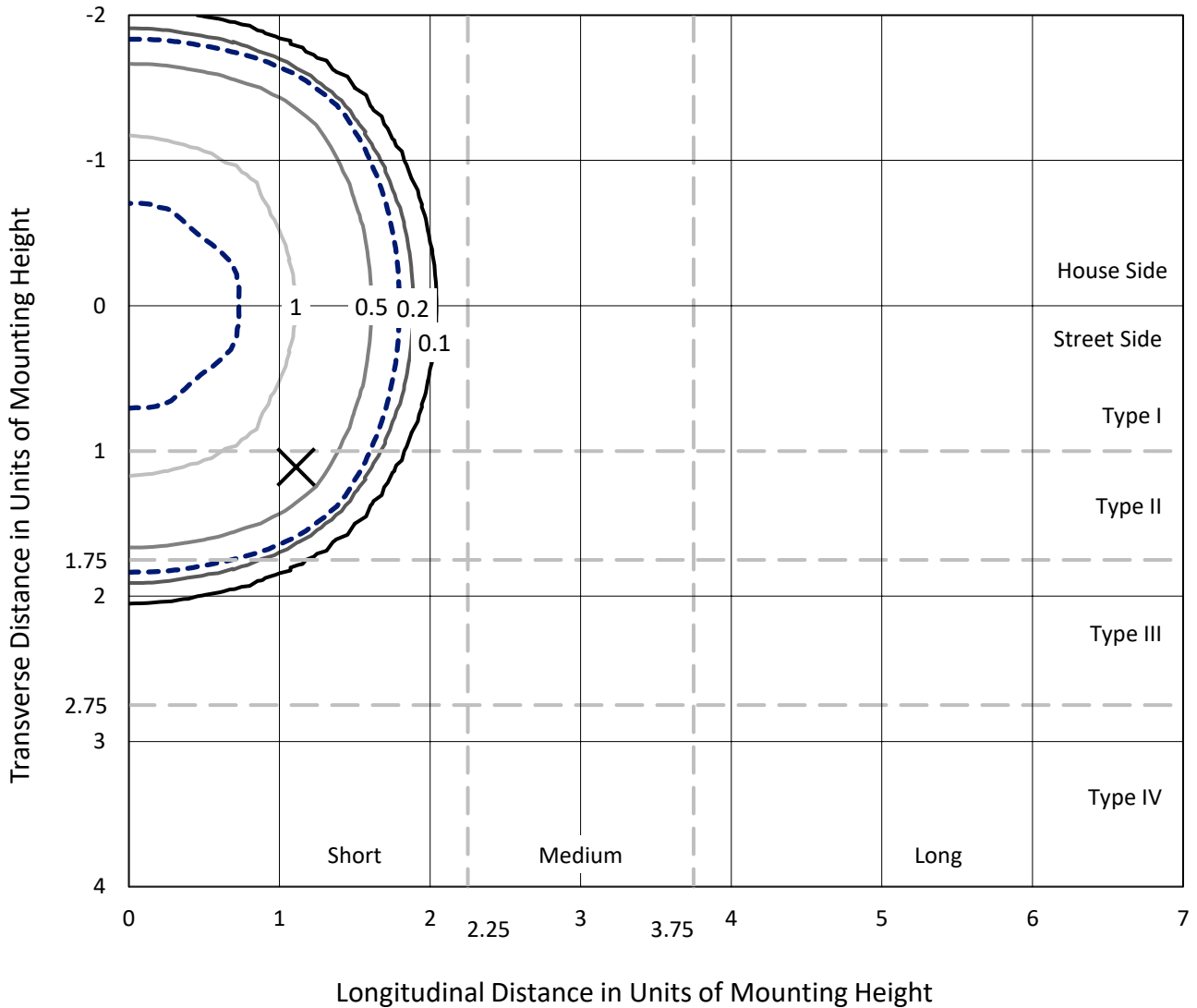
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

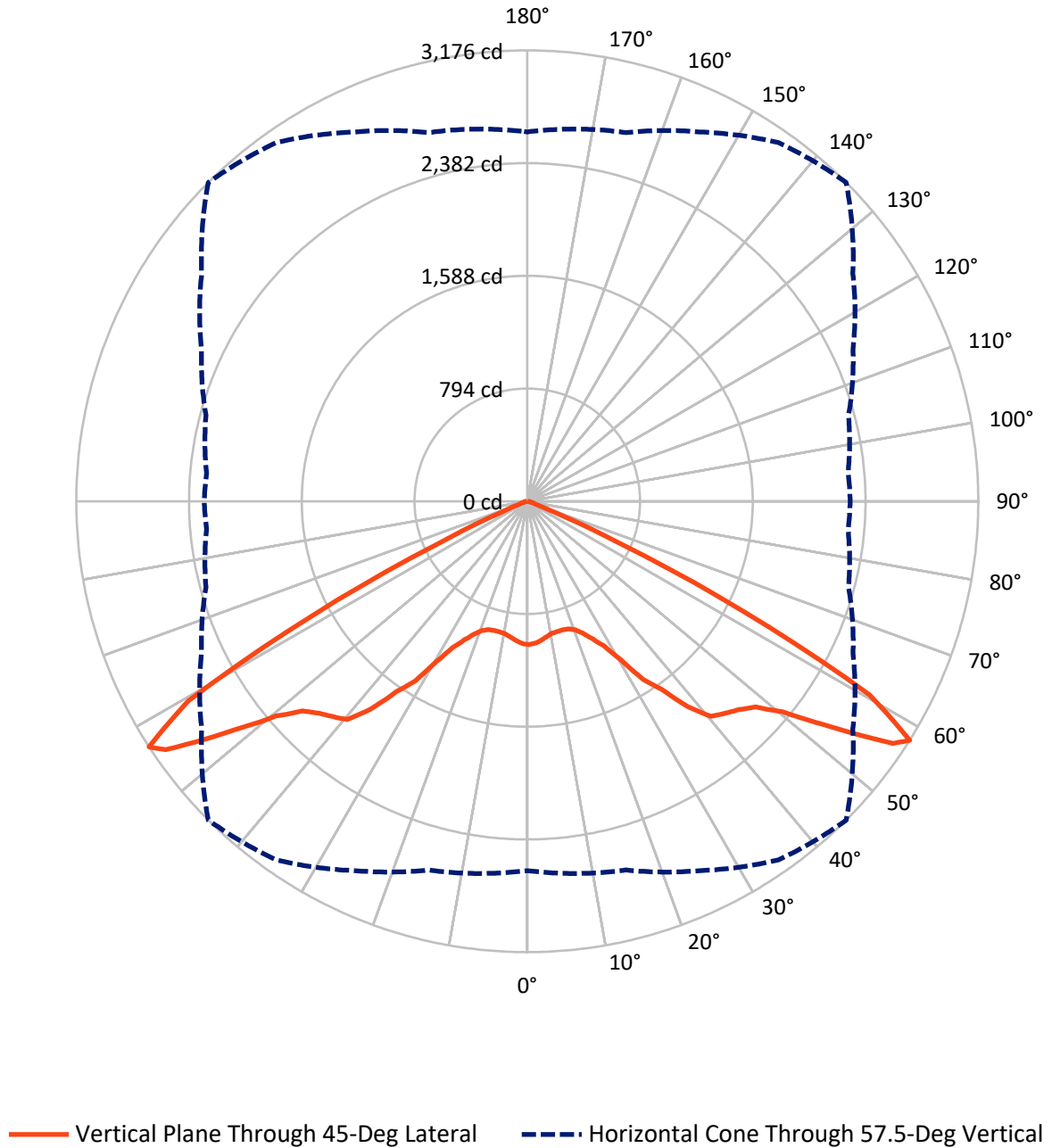
× Max cd
 - - - 1/2 Max cd



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 |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3256.5 | 0.0 | 3256.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3256.5 | 0.0 | 3256.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6513.0 | 0.0 | 6513.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.8 | 1.4 |
| 10°-20° | 268.3 | 4.1 |
| 20°-30° | 495.3 | 7.6 |
| 30°-40° | 974.1 | 15.0 |
| 40°-50° | 1586.5 | 24.4 |
| 50°-60° | 2262.6 | 34.7 |
| 60°-70° | 783.4 | 12.0 |
| 70°-80° | 42.0 | 0.6 |
| 80°-90° | 7.9 | 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° | 6513.0 | 100.0 |
| 0°-180° | 6513.0 | 100.0 |

Coefficient of Utilization

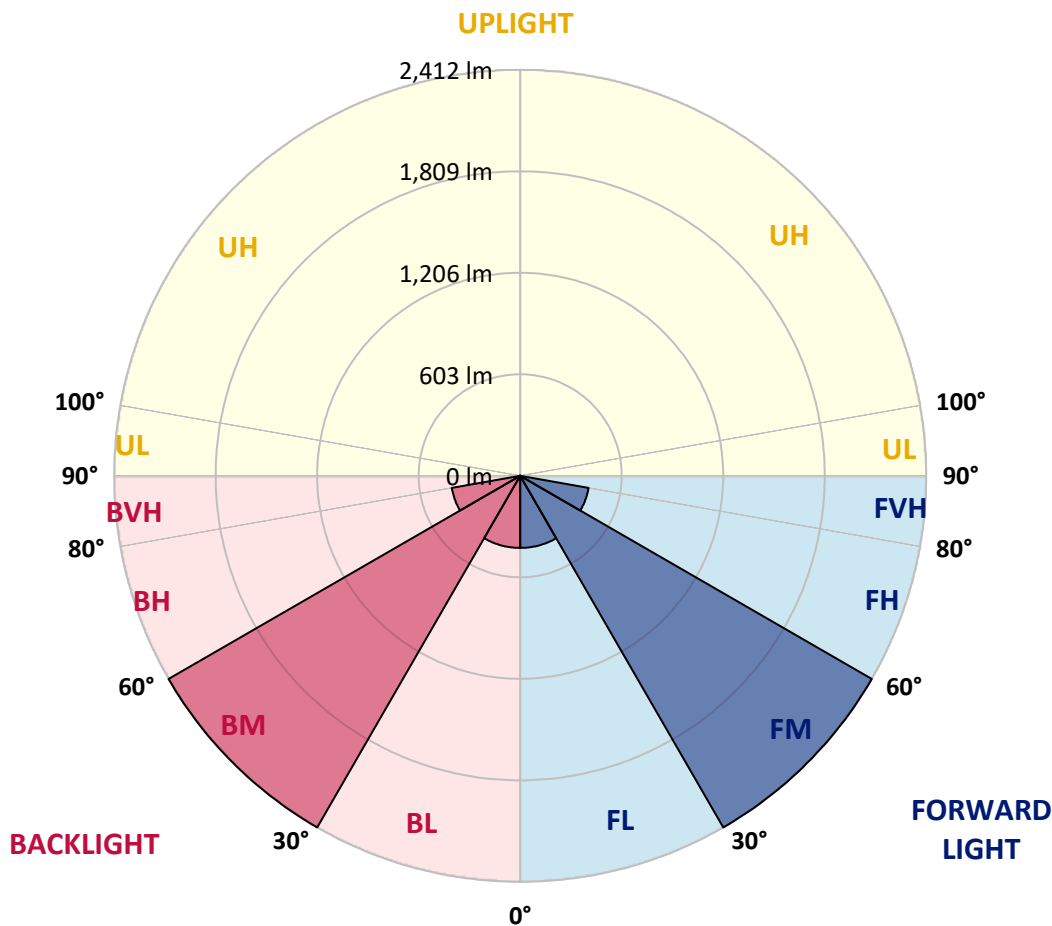


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 428.2 | 6.6 | | | |
| FM (30°-60°) | 2411.6 | 37.0 | | | |
| FH (60°-80°) | 412.7 | 6.3 | | | G0/660 |
| FVH (80°-90°) | 3.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 428.2 | 6.6 | B1/500 | | |
| BM (30°-60°) | 2411.6 | 37.0 | B2/2500 | | |
| BH (60°-80°) | 412.7 | 6.3 | B1/500 | | G0/660 |
| BVH (80°-90°) | 3.9 | 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° | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1010.2 | 1010.2 |
| 2.5° | 1007.5 | 1013.0 | 1006.2 | 1003.4 | 1002.1 | 1002.1 | 998.0 | 998.0 | 996.7 | 998.0 | 992.6 |
| 5° | 991.2 | 996.7 | 996.7 | 995.3 | 987.2 | 985.8 | 981.7 | 979.0 | 980.4 | 974.9 | 979.0 |
| 7.5° | 974.9 | 979.0 | 973.6 | 972.2 | 969.5 | 964.1 | 962.7 | 950.5 | 951.8 | 951.8 | 954.6 |
| 10° | 972.2 | 970.9 | 962.7 | 955.9 | 947.8 | 946.4 | 942.3 | 939.6 | 939.6 | 938.3 | 942.3 |
| 12.5° | 972.2 | 965.4 | 964.1 | 949.1 | 935.6 | 941.0 | 930.1 | 923.3 | 932.8 | 935.6 | 941.0 |
| 15° | 970.9 | 977.6 | 954.6 | 947.8 | 938.3 | 939.6 | 930.1 | 923.3 | 928.8 | 931.5 | 935.6 |
| 17.5° | 979.0 | 974.9 | 968.1 | 954.6 | 950.5 | 945.1 | 932.8 | 927.4 | 927.4 | 934.2 | 935.6 |
| 20° | 1000.7 | 989.9 | 976.3 | 969.5 | 973.6 | 966.8 | 951.8 | 931.5 | 936.9 | 942.3 | 946.4 |
| 22.5° | 1021.1 | 1013.0 | 1003.4 | 999.4 | 1022.5 | 1011.6 | 985.8 | 962.7 | 954.6 | 964.1 | 970.9 |
| 25° | 1060.5 | 1060.5 | 1042.8 | 1048.3 | 1074.1 | 1075.4 | 1045.5 | 1004.8 | 999.4 | 1003.4 | 1006.2 |
| 27.5° | 1140.6 | 1144.7 | 1129.7 | 1135.2 | 1146.0 | 1155.5 | 1129.7 | 1095.8 | 1083.6 | 1082.2 | 1086.3 |
| 30° | 1227.5 | 1235.6 | 1234.3 | 1257.4 | 1288.6 | 1294.0 | 1256.0 | 1200.3 | 1163.7 | 1156.9 | 1162.3 |
| 32.5° | 1341.5 | 1345.6 | 1342.9 | 1370.1 | 1454.2 | 1493.6 | 1394.5 | 1315.7 | 1266.9 | 1279.1 | 1266.9 |
| 35° | 1556.1 | 1552.0 | 1522.1 | 1527.6 | 1596.8 | 1625.3 | 1530.3 | 1480.0 | 1457.0 | 1481.4 | 1476.0 |
| 37.5° | 1740.8 | 1725.8 | 1701.4 | 1736.7 | 1808.6 | 1834.4 | 1735.3 | 1647.1 | 1605.0 | 1645.7 | 1663.4 |
| 40° | 1896.9 | 1858.9 | 1824.9 | 1860.2 | 1956.7 | 1992.0 | 1846.7 | 1774.7 | 1758.4 | 1788.3 | 1826.3 |
| 42.5° | 2028.6 | 2004.2 | 1959.4 | 1962.1 | 2025.9 | 2042.2 | 1925.4 | 1883.3 | 1867.0 | 1914.6 | 1933.6 |
| 45° | 2122.3 | 2099.2 | 2057.1 | 2054.4 | 2103.3 | 2092.4 | 1987.9 | 1959.4 | 1968.9 | 2000.1 | 2009.6 |
| 47.5° | 2169.8 | 2182.1 | 2157.6 | 2164.4 | 2190.2 | 2164.4 | 2081.6 | 2081.6 | 2059.8 | 2078.9 | 2069.4 |
| 50° | 2307.0 | 2269.0 | 2300.2 | 2300.2 | 2327.3 | 2330.1 | 2247.2 | 2217.4 | 2159.0 | 2126.4 | 2126.4 |
| 52.5° | 2467.2 | 2469.9 | 2482.1 | 2526.9 | 2573.1 | 2612.5 | 2494.4 | 2366.7 | 2269.0 | 2226.9 | 2221.4 |
| 55° | 2598.9 | 2626.1 | 2674.9 | 2759.1 | 2892.2 | 2946.5 | 2742.8 | 2514.7 | 2395.2 | 2330.1 | 2316.5 |
| 56° | 2670.9 | 2645.1 | 2729.3 | 2844.7 | 3018.5 | 3089.1 | 2783.6 | 2544.6 | 2412.9 | 2339.6 | 2338.2 |
| 57.5° | 2601.6 | 2630.1 | 2688.5 | 2870.5 | 3083.7 | 3176.0 | 2798.5 | 2531.0 | 2342.3 | 2267.6 | 2274.4 |
| 60° | 2054.4 | 2081.6 | 2160.3 | 2364.0 | 2698.0 | 2770.0 | 2368.1 | 2087.0 | 1918.6 | 1811.4 | 1812.7 |
| 62.5° | 1162.3 | 1182.7 | 1243.8 | 1432.5 | 1640.3 | 1709.5 | 1476.0 | 1288.6 | 1171.8 | 1112.1 | 1093.1 |
| 65° | 427.7 | 419.6 | 429.1 | 525.5 | 653.1 | 711.5 | 613.7 | 518.7 | 457.6 | 435.9 | 427.7 |
| 67.5° | 160.2 | 148.0 | 138.5 | 148.0 | 186.0 | 196.9 | 180.6 | 150.7 | 141.2 | 145.3 | 148.0 |
| 70° | 99.1 | 93.7 | 74.7 | 70.6 | 69.2 | 67.9 | 72.0 | 76.0 | 86.9 | 101.8 | 104.6 |
| 72.5° | 69.2 | 65.2 | 53.0 | 50.2 | 47.5 | 46.2 | 53.0 | 58.4 | 67.9 | 78.8 | 80.1 |
| 75° | 27.2 | 28.5 | 27.2 | 29.9 | 31.2 | 32.6 | 38.0 | 42.1 | 46.2 | 46.2 | 44.8 |
| 77.5° | 5.4 | 5.4 | 8.1 | 10.9 | 13.6 | 17.7 | 25.8 | 29.9 | 31.2 | 29.9 | 25.8 |
| 80° | 0.0 | 0.0 | 2.7 | 5.4 | 10.9 | 14.9 | 23.1 | 25.8 | 28.5 | 25.8 | 20.4 |
| 82.5° | 0.0 | 0.0 | 2.7 | 6.8 | 10.9 | 13.6 | 21.7 | 27.2 | 31.2 | 28.5 | 21.7 |
| 85° | 0.0 | 0.0 | 2.7 | 5.4 | 8.1 | 9.5 | 9.5 | 6.8 | 6.8 | 4.1 | 2.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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)