

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: P451205

Luminaire Tested: **GALN-SA2A-750-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-750-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9645 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

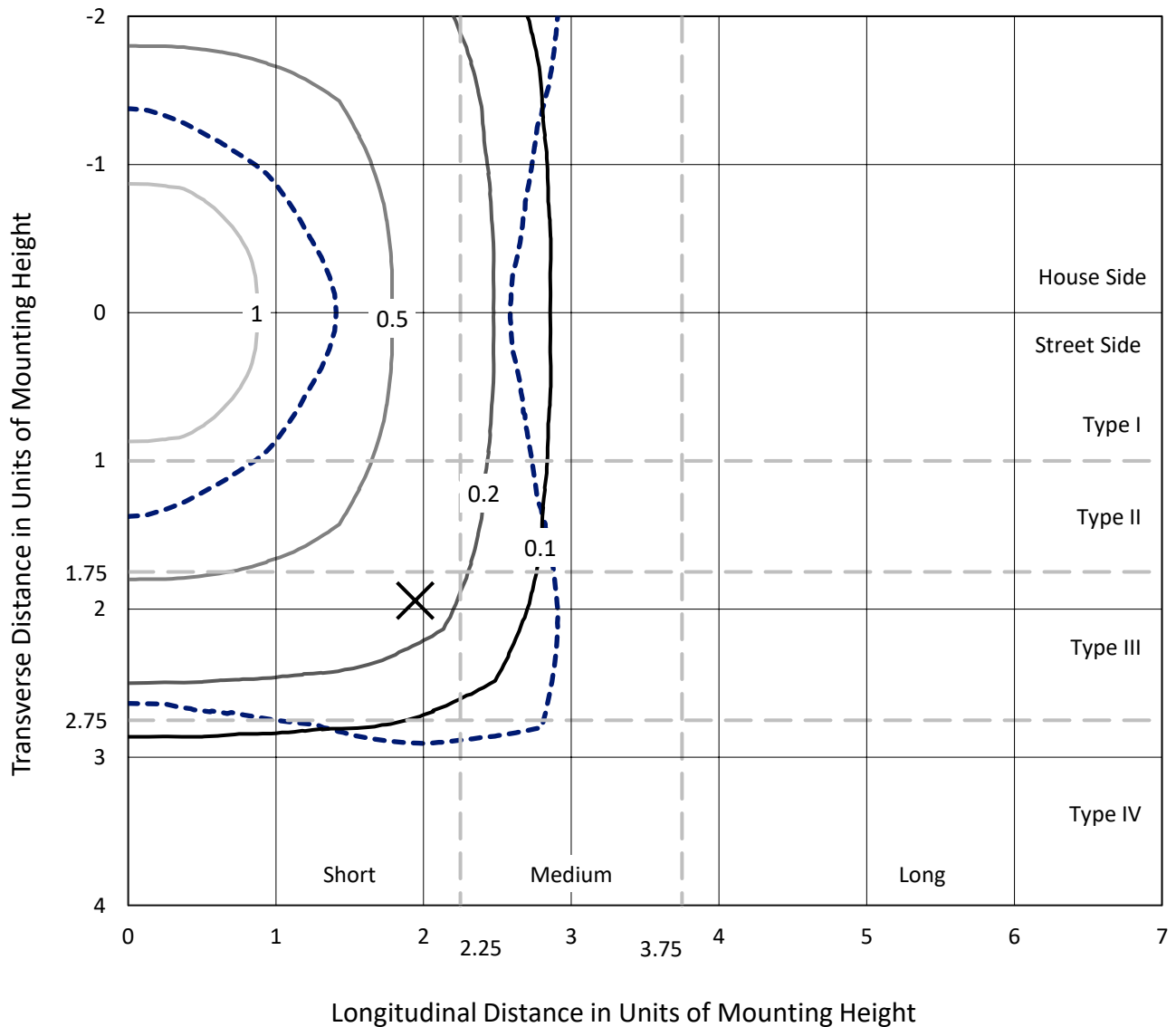
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

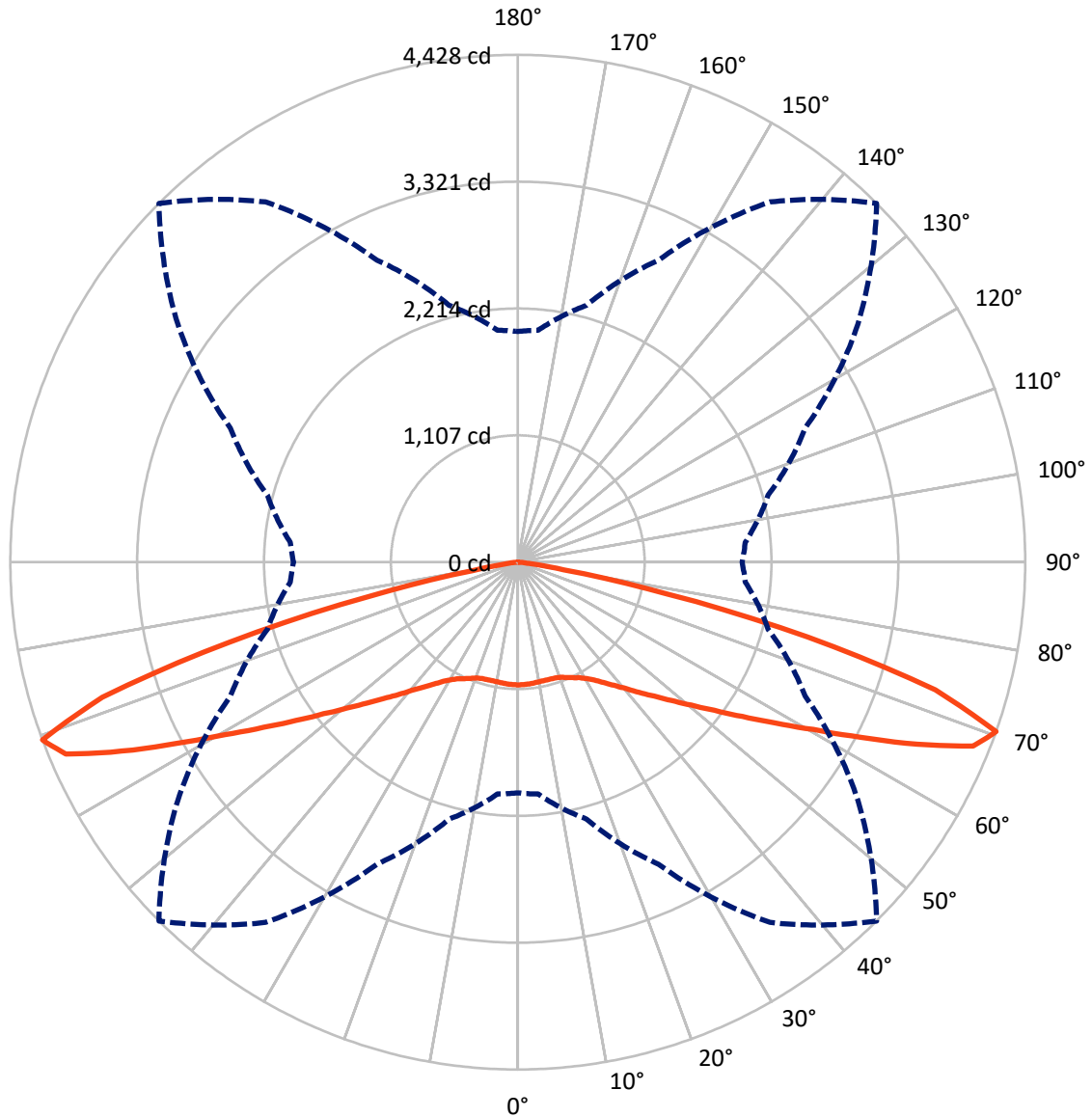
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4822.5 | 0.0 | 4822.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4822.5 | 0.0 | 4822.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9645.0 | 0.0 | 9645.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.6 | 1.1 |
| 10°-20° | 298.0 | 3.1 |
| 20°-30° | 509.7 | 5.3 |
| 30°-40° | 809.0 | 8.4 |
| 40°-50° | 1305.2 | 13.5 |
| 50°-60° | 2123.6 | 22.0 |
| 60°-70° | 3078.5 | 31.9 |
| 70°-80° | 1365.5 | 14.2 |
| 80°-90° | 53.9 | 0.6 |
| 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° | 9645.0 | 100.0 |
| 0°-180° | 9645.0 | 100.0 |

Coefficient of Utilization



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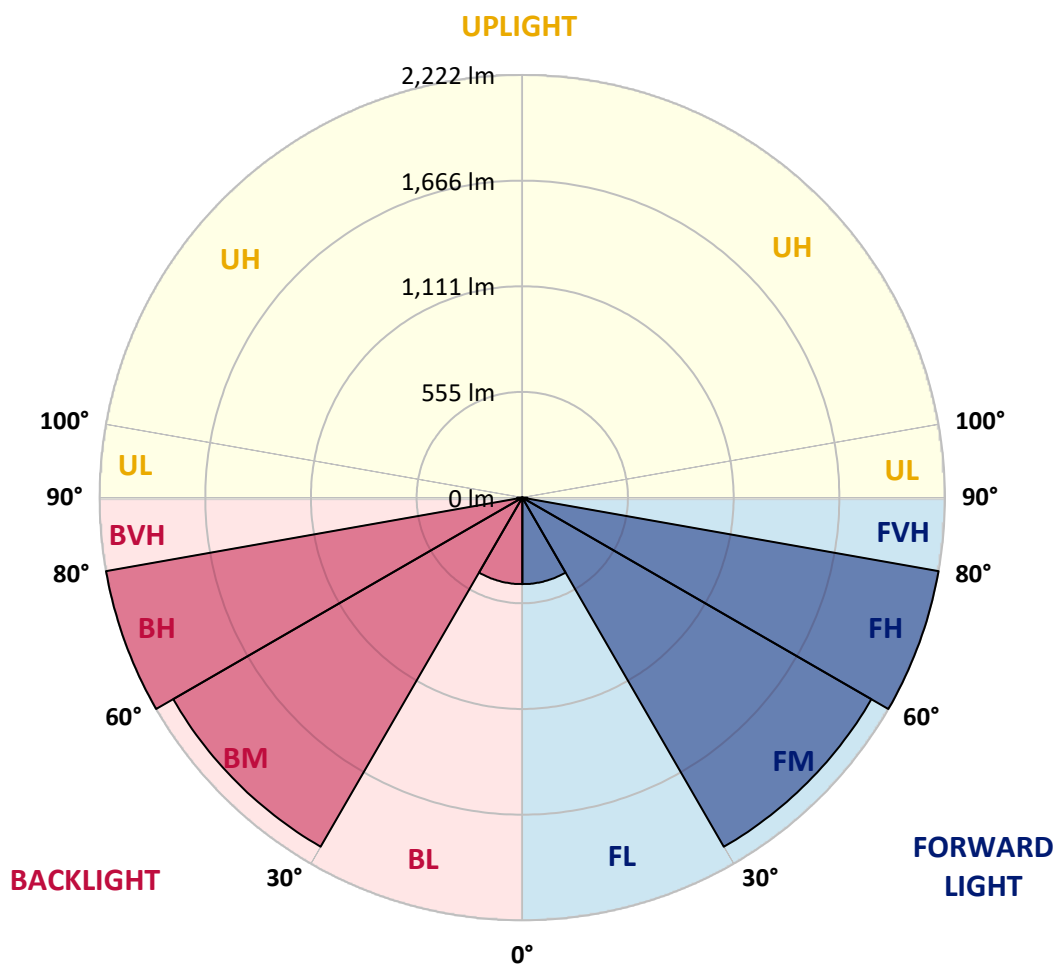
CATALOG NUMBER: GALN-SA2A-750-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 454.7 | 4.7 | | | |
| FM (30°-60°) | 2118.9 | 22.0 | | | |
| FH (60°-80°) | 2222.0 | 23.0 | | | G2/5000 |
| FVH (80°-90°) | 26.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 454.7 | 4.7 | B1/500 | | |
| BM (30°-60°) | 2118.9 | 22.0 | B2/2500 | | |
| BH (60°-80°) | 2222.0 | 23.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 26.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 |
| 2.5° | 1071.0 | 1072.0 | 1070.5 | 1069.5 | 1069.0 | 1069.0 | 1068.5 | 1069.0 | 1072.0 | 1072.6 | 1071.0 |
| 5° | 1068.0 | 1069.0 | 1068.5 | 1067.5 | 1067.0 | 1067.0 | 1066.5 | 1065.9 | 1068.5 | 1069.5 | 1069.0 |
| 7.5° | 1063.9 | 1064.4 | 1063.9 | 1063.4 | 1063.9 | 1063.4 | 1061.9 | 1060.9 | 1062.9 | 1062.9 | 1062.4 |
| 10° | 1056.8 | 1057.8 | 1057.3 | 1057.8 | 1058.8 | 1058.8 | 1056.8 | 1054.8 | 1055.3 | 1054.3 | 1054.3 |
| 12.5° | 1048.2 | 1049.7 | 1050.2 | 1052.2 | 1054.8 | 1057.8 | 1053.2 | 1048.7 | 1047.6 | 1047.1 | 1046.6 |
| 15° | 1042.6 | 1044.1 | 1046.1 | 1048.2 | 1052.7 | 1059.3 | 1052.7 | 1045.6 | 1043.6 | 1041.5 | 1040.5 |
| 17.5° | 1041.0 | 1043.1 | 1046.1 | 1049.2 | 1055.3 | 1061.9 | 1056.3 | 1049.2 | 1044.1 | 1041.0 | 1040.0 |
| 20° | 1045.1 | 1046.6 | 1051.2 | 1056.8 | 1065.4 | 1072.0 | 1066.5 | 1058.8 | 1051.2 | 1046.6 | 1045.1 |
| 22.5° | 1053.2 | 1055.8 | 1061.4 | 1071.5 | 1083.7 | 1093.4 | 1085.8 | 1073.1 | 1060.9 | 1054.8 | 1052.7 |
| 25° | 1071.0 | 1073.1 | 1079.7 | 1093.4 | 1107.6 | 1116.8 | 1108.6 | 1093.9 | 1077.1 | 1069.0 | 1066.5 |
| 27.5° | 1098.0 | 1101.0 | 1108.1 | 1124.4 | 1136.1 | 1141.2 | 1135.6 | 1125.4 | 1113.2 | 1104.6 | 1102.5 |
| 30° | 1136.1 | 1139.7 | 1150.3 | 1167.6 | 1175.2 | 1178.3 | 1175.7 | 1169.1 | 1160.5 | 1151.3 | 1149.3 |
| 32.5° | 1187.4 | 1189.5 | 1201.7 | 1217.9 | 1225.1 | 1226.1 | 1223.0 | 1220.0 | 1205.7 | 1190.5 | 1189.5 |
| 35° | 1244.9 | 1248.4 | 1263.2 | 1282.5 | 1289.1 | 1289.6 | 1283.5 | 1278.9 | 1262.2 | 1250.0 | 1250.0 |
| 37.5° | 1321.1 | 1322.7 | 1336.9 | 1358.7 | 1365.9 | 1363.8 | 1360.8 | 1356.7 | 1338.9 | 1323.2 | 1323.7 |
| 40° | 1410.6 | 1413.6 | 1425.8 | 1451.3 | 1451.3 | 1448.7 | 1450.7 | 1447.7 | 1429.9 | 1414.7 | 1415.2 |
| 42.5° | 1516.8 | 1518.4 | 1533.1 | 1560.0 | 1558.0 | 1552.9 | 1555.0 | 1550.9 | 1539.7 | 1522.4 | 1516.3 |
| 45° | 1630.2 | 1636.3 | 1661.7 | 1687.6 | 1683.6 | 1667.3 | 1675.4 | 1674.4 | 1664.2 | 1638.3 | 1639.8 |
| 47.5° | 1766.9 | 1777.1 | 1801.5 | 1832.5 | 1827.9 | 1802.5 | 1811.7 | 1817.8 | 1803.5 | 1775.1 | 1770.0 |
| 50° | 1920.9 | 1927.6 | 1963.6 | 1992.6 | 1988.6 | 1961.6 | 1982.5 | 1983.5 | 1947.9 | 1907.7 | 1907.7 |
| 52.5° | 2085.1 | 2091.7 | 2140.5 | 2185.8 | 2188.3 | 2149.2 | 2166.0 | 2164.9 | 2107.0 | 2054.1 | 2044.0 |
| 55° | 2269.1 | 2272.2 | 2335.2 | 2401.8 | 2416.0 | 2377.9 | 2380.0 | 2359.6 | 2284.4 | 2222.9 | 2217.3 |
| 57.5° | 2459.3 | 2470.4 | 2540.1 | 2626.5 | 2668.7 | 2645.3 | 2634.6 | 2580.2 | 2507.5 | 2436.9 | 2433.3 |
| 60° | 2669.7 | 2670.2 | 2760.7 | 2862.9 | 2948.3 | 2964.0 | 2920.3 | 2847.6 | 2753.6 | 2660.0 | 2656.0 |
| 62.5° | 2815.6 | 2837.4 | 2951.8 | 3124.6 | 3277.7 | 3366.1 | 3250.7 | 3098.2 | 2913.2 | 2762.2 | 2747.0 |
| 65° | 2845.6 | 2860.3 | 3034.7 | 3327.5 | 3640.1 | 3830.7 | 3563.8 | 3239.5 | 2923.9 | 2722.6 | 2712.4 |
| 67.5° | 2603.1 | 2618.9 | 2853.7 | 3303.1 | 3894.2 | 4285.1 | 3767.2 | 3171.4 | 2742.9 | 2493.8 | 2474.0 |
| 70° | 2013.5 | 2031.2 | 2321.5 | 2907.6 | 3837.8 | 4428.0 | 3622.3 | 2766.3 | 2262.0 | 1993.1 | 1957.0 |
| 72.5° | 1070.5 | 1136.1 | 1384.2 | 1995.7 | 3115.0 | 3812.4 | 2970.1 | 2018.5 | 1458.9 | 1192.5 | 1144.7 |
| 75° | 390.9 | 399.0 | 537.3 | 885.0 | 1812.2 | 2614.3 | 1881.8 | 962.8 | 553.6 | 427.5 | 405.6 |
| 77.5° | 161.6 | 161.1 | 176.9 | 267.4 | 658.3 | 1338.9 | 734.5 | 282.6 | 176.4 | 163.2 | 161.1 |
| 80° | 95.6 | 95.6 | 105.2 | 111.3 | 173.3 | 404.1 | 193.7 | 126.1 | 105.7 | 96.6 | 98.1 |
| 82.5° | 42.7 | 45.2 | 66.6 | 70.1 | 83.9 | 110.8 | 93.5 | 80.3 | 69.1 | 47.8 | 43.2 |
| 85° | 23.4 | 20.3 | 35.1 | 36.6 | 40.2 | 41.2 | 44.2 | 43.7 | 40.2 | 23.4 | 23.9 |
| 87.5° | 4.6 | 5.6 | 10.2 | 7.6 | 8.6 | 7.6 | 10.2 | 14.2 | 14.7 | 8.1 | 6.6 |
| 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)