

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: P451613

Luminaire Tested: **GALN-SA2C-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13476 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

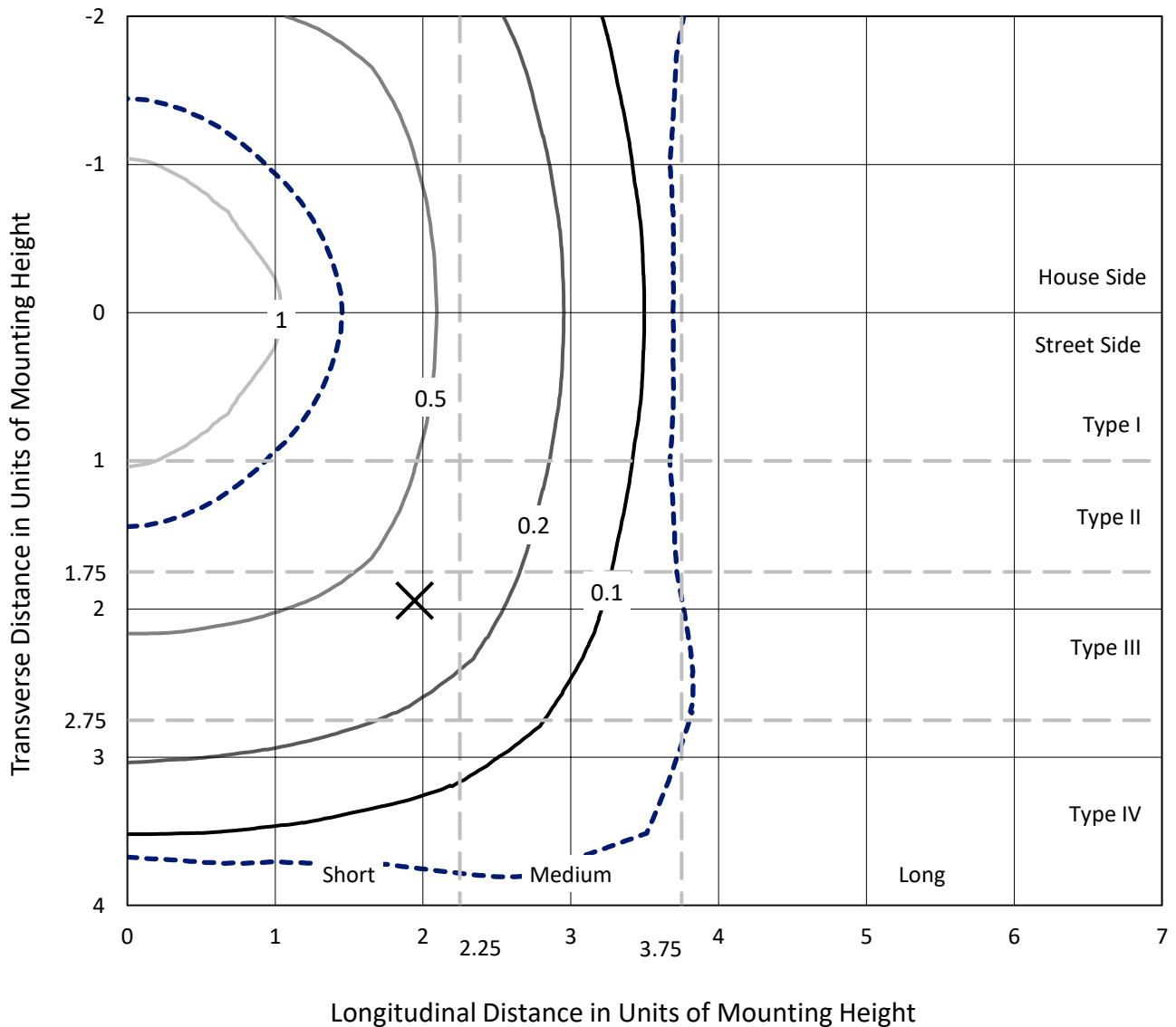
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

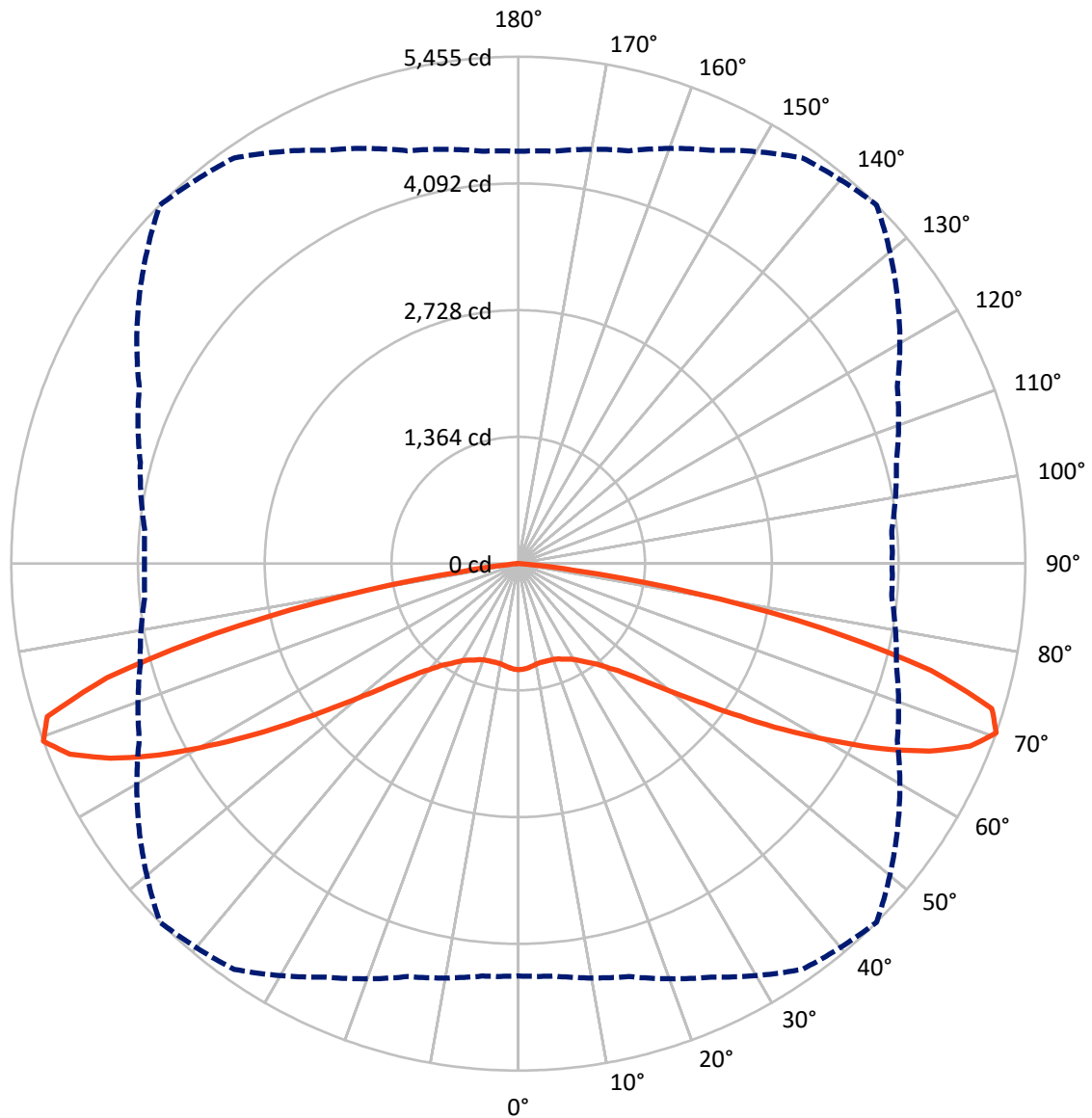
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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 | 6738.0 | 0.0 | 6738.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6738.0 | 0.0 | 6738.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13476.0 | 0.0 | 13476.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 106.7 | 0.8 |
| 10°-20° | 312.4 | 2.3 |
| 20°-30° | 532.2 | 3.9 |
| 30°-40° | 824.9 | 6.1 |
| 40°-50° | 1388.4 | 10.3 |
| 50°-60° | 2526.1 | 18.7 |
| 60°-70° | 4276.7 | 31.7 |
| 70°-80° | 3310.3 | 24.6 |
| 80°-90° | 198.4 | 1.5 |
| 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° | 13476.0 | 100.0 |
| 0°-180° | 13476.0 | 100.0 |

Coefficient of Utilization



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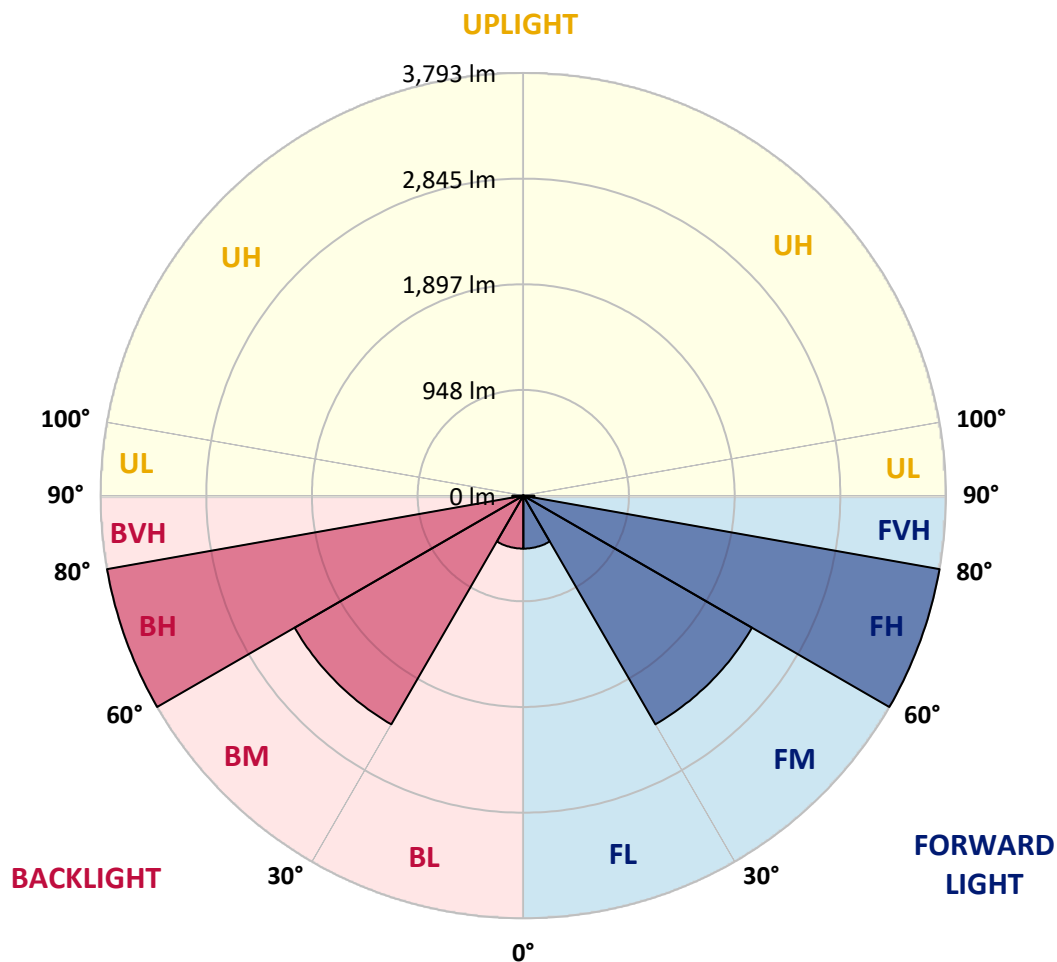
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 475.6 | 3.5 | | | |
| FM (30°-60°) | 2369.7 | 17.6 | | | |
| FH (60°-80°) | 3793.5 | 28.1 | | | G2/5000 |
| FVH (80°-90°) | 99.2 | 0.7 | | | G1/100 |
| BL (0°-30°) | 475.6 | 3.5 | B1/500 | | |
| BM (30°-60°) | 2369.7 | 17.6 | B2/2500 | | |
| BH (60°-80°) | 3793.5 | 28.1 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 99.2 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 |
| 2.5° | 1138.1 | 1138.8 | 1138.8 | 1137.3 | 1136.6 | 1136.6 | 1135.9 | 1135.9 | 1138.1 | 1138.8 | 1139.5 |
| 5° | 1128.1 | 1128.1 | 1128.1 | 1127.4 | 1126.0 | 1126.0 | 1124.5 | 1124.5 | 1125.3 | 1127.4 | 1126.0 |
| 7.5° | 1114.6 | 1116.0 | 1116.0 | 1113.2 | 1111.0 | 1111.0 | 1110.3 | 1111.0 | 1111.7 | 1113.9 | 1113.2 |
| 10° | 1110.3 | 1111.0 | 1107.5 | 1102.5 | 1098.9 | 1096.8 | 1097.5 | 1098.9 | 1102.5 | 1103.9 | 1104.6 |
| 12.5° | 1113.2 | 1113.2 | 1106.7 | 1099.6 | 1093.2 | 1090.4 | 1089.7 | 1094.6 | 1101.1 | 1105.3 | 1106.7 |
| 15° | 1116.7 | 1115.3 | 1107.5 | 1098.2 | 1091.8 | 1091.1 | 1090.4 | 1093.9 | 1103.2 | 1111.7 | 1112.4 |
| 17.5° | 1118.8 | 1118.1 | 1108.2 | 1096.8 | 1093.2 | 1093.2 | 1092.5 | 1095.4 | 1105.3 | 1116.0 | 1116.7 |
| 20° | 1126.0 | 1123.8 | 1112.4 | 1100.3 | 1097.5 | 1098.9 | 1096.8 | 1100.3 | 1111.0 | 1123.8 | 1126.7 |
| 22.5° | 1140.2 | 1138.1 | 1126.7 | 1114.6 | 1113.2 | 1113.2 | 1112.4 | 1116.0 | 1127.4 | 1140.9 | 1143.0 |
| 25° | 1157.3 | 1155.1 | 1144.5 | 1135.9 | 1137.3 | 1140.2 | 1138.8 | 1139.5 | 1148.7 | 1160.1 | 1163.7 |
| 27.5° | 1180.1 | 1176.5 | 1167.2 | 1160.1 | 1164.4 | 1164.4 | 1164.4 | 1163.7 | 1169.4 | 1180.1 | 1183.6 |
| 30° | 1207.8 | 1206.4 | 1196.4 | 1195.7 | 1199.3 | 1195.7 | 1195.7 | 1196.4 | 1197.1 | 1207.1 | 1210.7 |
| 32.5° | 1244.1 | 1241.3 | 1236.3 | 1234.9 | 1244.8 | 1247.7 | 1237.7 | 1228.5 | 1233.4 | 1243.4 | 1245.5 |
| 35° | 1303.9 | 1299.6 | 1292.5 | 1284.7 | 1292.5 | 1306.0 | 1284.7 | 1277.6 | 1290.4 | 1303.9 | 1305.3 |
| 37.5° | 1385.0 | 1382.9 | 1371.5 | 1357.3 | 1356.6 | 1370.8 | 1348.7 | 1348.0 | 1372.2 | 1388.6 | 1390.7 |
| 40° | 1486.8 | 1488.9 | 1474.7 | 1461.2 | 1454.1 | 1465.5 | 1448.4 | 1454.8 | 1478.3 | 1496.8 | 1495.4 |
| 42.5° | 1629.9 | 1622.0 | 1600.0 | 1587.2 | 1579.3 | 1575.1 | 1570.8 | 1580.8 | 1607.1 | 1627.0 | 1642.7 |
| 45° | 1797.1 | 1794.3 | 1766.5 | 1750.9 | 1733.8 | 1727.4 | 1726.0 | 1743.7 | 1775.8 | 1800.0 | 1802.1 |
| 47.5° | 1986.4 | 1980.0 | 1962.2 | 1945.9 | 1939.5 | 1931.6 | 1924.5 | 1938.0 | 1970.1 | 1987.2 | 1992.1 |
| 50° | 2181.5 | 2182.9 | 2182.9 | 2180.0 | 2186.4 | 2187.9 | 2168.7 | 2173.6 | 2191.4 | 2190.0 | 2188.6 |
| 52.5° | 2404.2 | 2412.1 | 2449.1 | 2452.6 | 2483.2 | 2503.9 | 2469.0 | 2448.4 | 2442.0 | 2403.5 | 2406.4 |
| 55° | 2666.2 | 2673.3 | 2728.8 | 2784.3 | 2866.9 | 2901.7 | 2828.4 | 2764.4 | 2718.8 | 2660.5 | 2663.3 |
| 57.5° | 2992.8 | 2996.4 | 3049.1 | 3155.8 | 3286.8 | 3368.6 | 3239.8 | 3113.1 | 3020.6 | 2965.1 | 2943.0 |
| 60° | 3344.4 | 3348.0 | 3424.9 | 3555.1 | 3758.7 | 3858.3 | 3698.9 | 3491.8 | 3375.0 | 3290.3 | 3296.0 |
| 62.5° | 3766.5 | 3780.7 | 3849.8 | 4029.1 | 4276.1 | 4387.8 | 4176.5 | 3899.6 | 3741.6 | 3636.2 | 3640.5 |
| 65° | 4218.4 | 4242.6 | 4318.1 | 4515.2 | 4743.0 | 4863.3 | 4604.2 | 4284.6 | 4088.2 | 3959.4 | 3972.9 |
| 67.5° | 4511.7 | 4533.0 | 4641.9 | 4859.7 | 5143.7 | 5243.3 | 4908.8 | 4536.6 | 4291.0 | 4137.3 | 4108.8 |
| 70° | 4436.9 | 4454.7 | 4599.9 | 4908.8 | 5329.5 | 5455.4 | 4981.4 | 4499.6 | 4210.6 | 4033.4 | 4022.0 |
| 72.5° | 3916.7 | 3879.7 | 4091.8 | 4535.2 | 5117.4 | 5328.7 | 4753.0 | 4109.5 | 3745.9 | 3563.6 | 3542.3 |
| 75° | 2595.7 | 2676.1 | 2989.3 | 3511.7 | 4329.5 | 4591.4 | 4056.9 | 3299.6 | 2842.0 | 2690.4 | 2666.9 |
| 77.5° | 867.6 | 929.5 | 1207.8 | 1990.7 | 2951.6 | 3345.1 | 2955.8 | 2158.0 | 1526.7 | 1229.9 | 1235.6 |
| 80° | 229.9 | 227.0 | 293.9 | 547.3 | 1275.4 | 1937.3 | 1484.7 | 731.0 | 400.0 | 289.7 | 274.7 |
| 82.5° | 82.6 | 92.5 | 118.9 | 151.6 | 338.1 | 602.1 | 424.9 | 205.0 | 150.2 | 111.0 | 107.5 |
| 85° | 36.3 | 35.6 | 51.2 | 60.5 | 84.7 | 112.5 | 99.6 | 86.8 | 76.2 | 50.5 | 47.0 |
| 87.5° | 7.8 | 7.8 | 12.1 | 9.3 | 14.9 | 14.9 | 18.5 | 22.1 | 22.8 | 14.9 | 12.1 |
| 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)