

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: P452280

Luminaire Tested: **GALN-SA3B-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452280
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-SA3B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14868 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

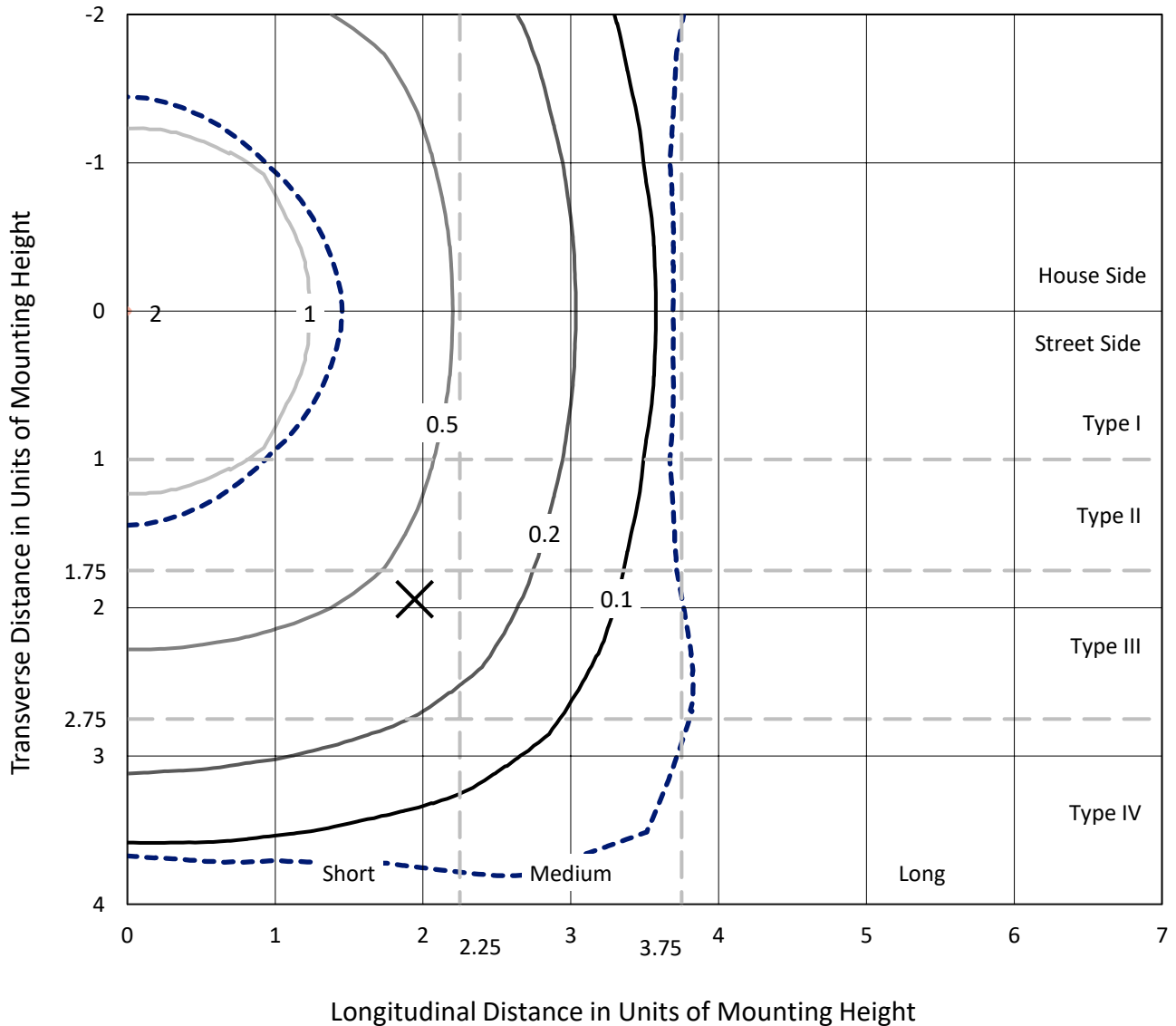
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

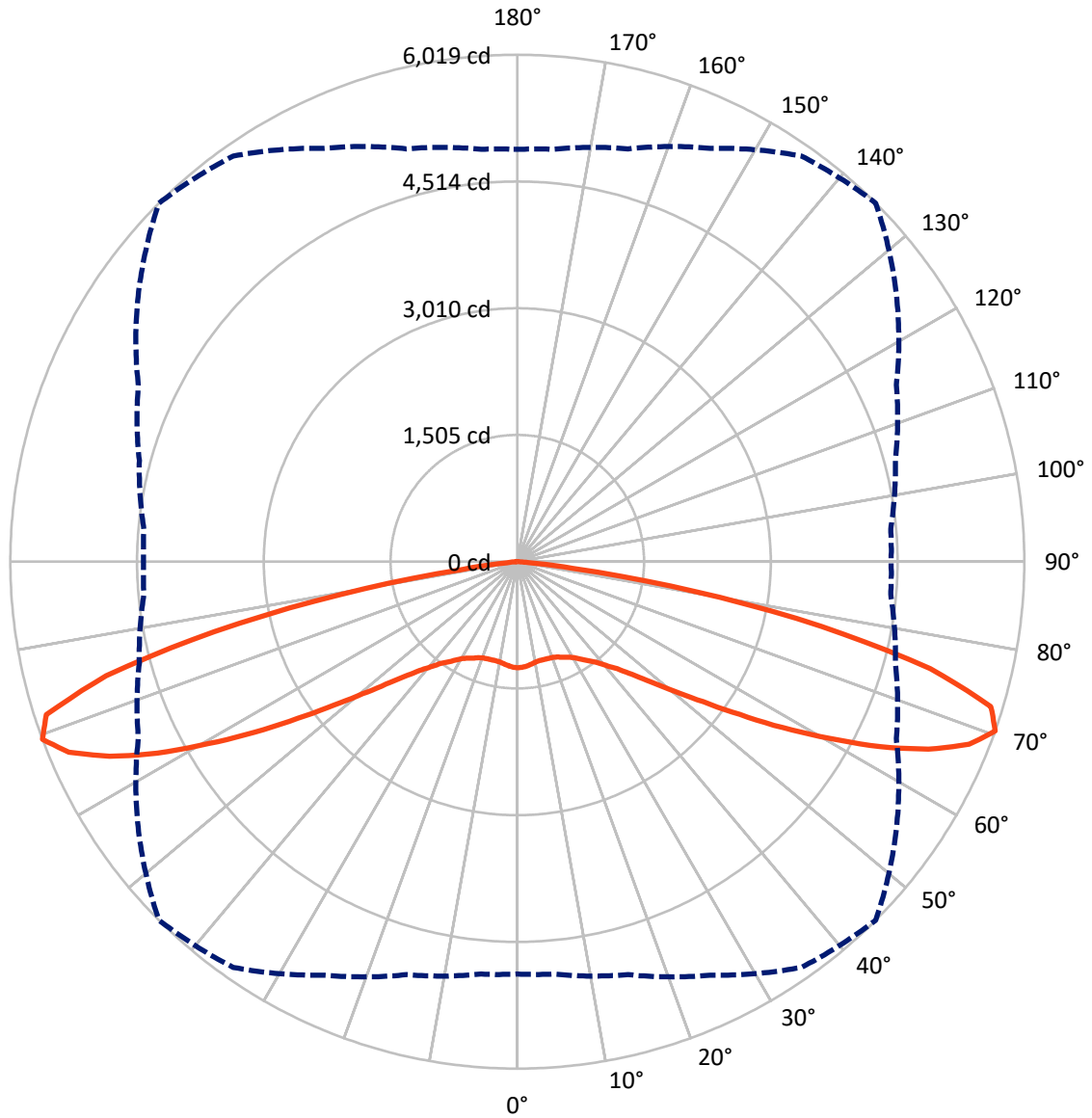
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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 | 7434.0 | 0.0 | 7434.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7434.0 | 0.0 | 7434.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14868.0 | 0.0 | 14868.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 117.7 | 0.8 |
| 10°-20° | 344.6 | 2.3 |
| 20°-30° | 587.2 | 3.9 |
| 30°-40° | 910.1 | 6.1 |
| 40°-50° | 1531.8 | 10.3 |
| 50°-60° | 2787.1 | 18.7 |
| 60°-70° | 4718.4 | 31.7 |
| 70°-80° | 3652.3 | 24.6 |
| 80°-90° | 218.8 | 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° | 14868.0 | 100.0 |
| 0°-180° | 14868.0 | 100.0 |

Coefficient of Utilization



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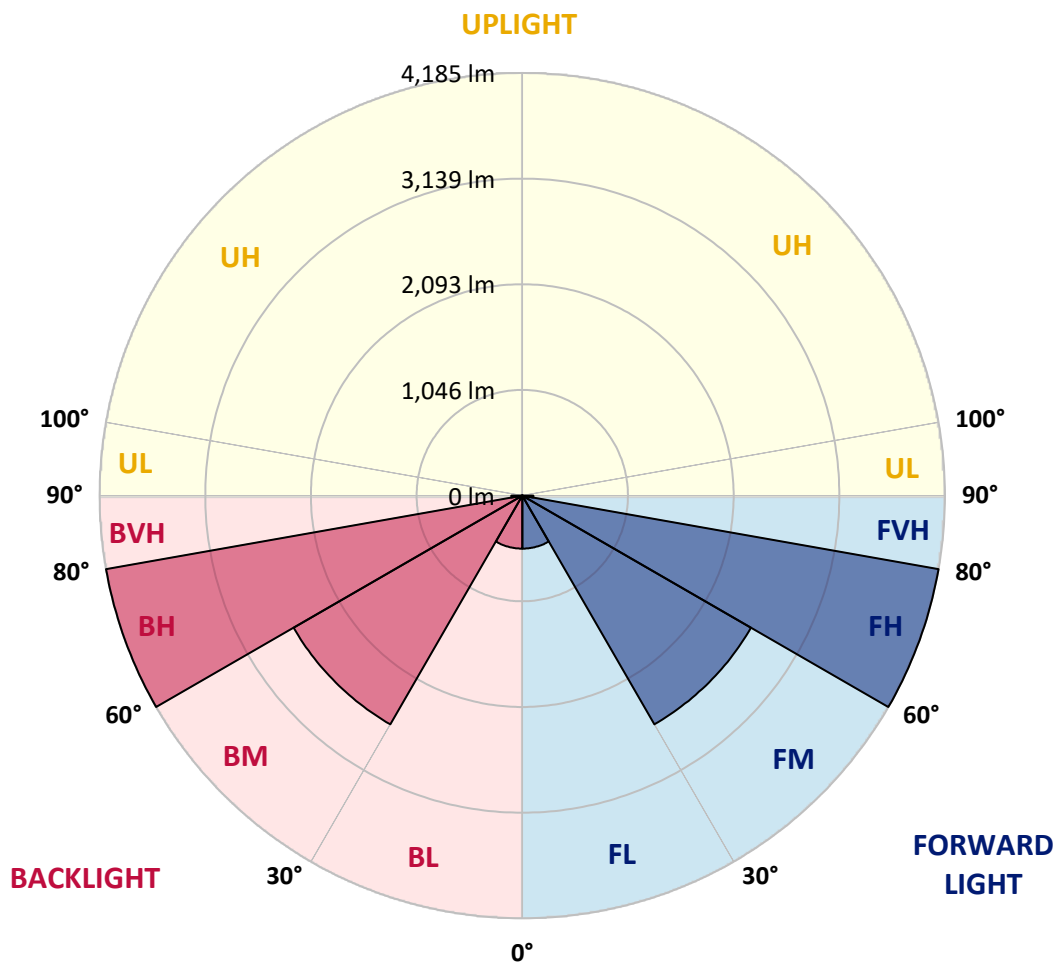
CATALOG NUMBER: GALN-SA3B-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 524.8 | 3.5 | | | |
| FM | (30°-60°) | 2614.5 | 17.6 | | | |
| FH | (60°-80°) | 4185.3 | 28.1 | | | G2/5000 |
| FVH | (80°-90°) | 109.4 | 0.7 | | | G2/225 |
| BL | (0°-30°) | 524.8 | 3.5 | B2/1000 | | |
| BM | (30°-60°) | 2614.5 | 17.6 | B3/5000 | | |
| BH | (60°-80°) | 4185.3 | 28.1 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 109.4 | 0.7 | | | G2/225 |
| 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° | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 | 1258.8 |
| 2.5° | 1255.6 | 1256.4 | 1256.4 | 1254.8 | 1254.0 | 1254.0 | 1253.3 | 1253.3 | 1255.6 | 1256.4 | 1257.2 |
| 5° | 1244.6 | 1244.6 | 1244.6 | 1243.8 | 1242.3 | 1242.3 | 1240.7 | 1240.7 | 1241.5 | 1243.8 | 1242.3 |
| 7.5° | 1229.7 | 1231.3 | 1231.3 | 1228.1 | 1225.8 | 1225.8 | 1225.0 | 1225.8 | 1226.6 | 1228.9 | 1228.1 |
| 10° | 1225.0 | 1225.8 | 1221.9 | 1216.4 | 1212.4 | 1210.1 | 1210.9 | 1212.4 | 1216.4 | 1217.9 | 1218.7 |
| 12.5° | 1228.1 | 1228.1 | 1221.1 | 1213.2 | 1206.1 | 1203.0 | 1202.2 | 1207.7 | 1214.8 | 1219.5 | 1221.1 |
| 15° | 1232.1 | 1230.5 | 1221.9 | 1211.6 | 1204.6 | 1203.8 | 1203.0 | 1206.9 | 1217.1 | 1226.6 | 1227.3 |
| 17.5° | 1234.4 | 1233.6 | 1222.6 | 1210.1 | 1206.1 | 1206.1 | 1205.4 | 1208.5 | 1219.5 | 1231.3 | 1232.1 |
| 20° | 1242.3 | 1239.9 | 1227.3 | 1214.0 | 1210.9 | 1212.4 | 1210.1 | 1214.0 | 1225.8 | 1239.9 | 1243.1 |
| 22.5° | 1258.0 | 1255.6 | 1243.1 | 1229.7 | 1228.1 | 1228.1 | 1227.3 | 1231.3 | 1243.8 | 1258.8 | 1261.1 |
| 25° | 1276.8 | 1274.5 | 1262.7 | 1253.3 | 1254.8 | 1258.0 | 1256.4 | 1257.2 | 1267.4 | 1280.0 | 1283.9 |
| 27.5° | 1301.9 | 1298.0 | 1287.8 | 1280.0 | 1284.7 | 1284.7 | 1284.7 | 1283.9 | 1290.2 | 1301.9 | 1305.9 |
| 30° | 1332.6 | 1331.0 | 1320.0 | 1319.2 | 1323.1 | 1319.2 | 1319.2 | 1320.0 | 1320.8 | 1331.8 | 1335.7 |
| 32.5° | 1372.6 | 1369.5 | 1364.0 | 1362.4 | 1373.4 | 1376.5 | 1365.6 | 1355.3 | 1360.8 | 1371.8 | 1374.2 |
| 35° | 1438.6 | 1433.9 | 1426.0 | 1417.4 | 1426.0 | 1440.9 | 1417.4 | 1409.5 | 1423.7 | 1438.6 | 1440.2 |
| 37.5° | 1528.1 | 1525.7 | 1513.2 | 1497.5 | 1496.7 | 1512.4 | 1488.1 | 1487.3 | 1514.0 | 1532.0 | 1534.4 |
| 40° | 1640.4 | 1642.7 | 1627.0 | 1612.1 | 1604.3 | 1616.8 | 1598.0 | 1605.1 | 1631.0 | 1651.4 | 1649.8 |
| 42.5° | 1798.2 | 1789.6 | 1765.2 | 1751.1 | 1742.5 | 1737.8 | 1733.1 | 1744.0 | 1773.1 | 1795.1 | 1812.4 |
| 45° | 1982.8 | 1979.6 | 1949.0 | 1931.7 | 1912.9 | 1905.8 | 1904.2 | 1923.9 | 1959.2 | 1985.9 | 1988.3 |
| 47.5° | 2191.6 | 2184.6 | 2164.9 | 2146.9 | 2139.8 | 2131.2 | 2123.3 | 2138.2 | 2173.6 | 2192.4 | 2197.9 |
| 50° | 2406.8 | 2408.4 | 2408.4 | 2405.2 | 2412.3 | 2413.9 | 2392.7 | 2398.2 | 2417.8 | 2416.2 | 2414.6 |
| 52.5° | 2652.6 | 2661.2 | 2702.1 | 2706.0 | 2739.7 | 2762.5 | 2724.0 | 2701.3 | 2694.2 | 2651.8 | 2654.9 |
| 55° | 2941.6 | 2949.4 | 3010.7 | 3071.9 | 3163.0 | 3201.5 | 3120.6 | 3049.9 | 2999.7 | 2935.3 | 2938.4 |
| 57.5° | 3302.0 | 3305.9 | 3364.0 | 3481.8 | 3626.3 | 3716.6 | 3574.5 | 3434.7 | 3332.6 | 3271.4 | 3247.0 |
| 60° | 3689.9 | 3693.8 | 3778.6 | 3922.3 | 4146.9 | 4256.8 | 4081.0 | 3852.4 | 3723.7 | 3630.2 | 3636.5 |
| 62.5° | 4155.6 | 4171.3 | 4247.4 | 4445.3 | 4717.8 | 4841.1 | 4607.9 | 4302.4 | 4128.1 | 4011.9 | 4016.6 |
| 65° | 4654.2 | 4680.9 | 4764.1 | 4981.6 | 5232.9 | 5365.6 | 5079.8 | 4727.2 | 4510.5 | 4368.4 | 4383.3 |
| 67.5° | 4977.7 | 5001.3 | 5121.4 | 5361.7 | 5675.0 | 5784.9 | 5415.9 | 5005.2 | 4734.3 | 4564.7 | 4533.3 |
| 70° | 4895.3 | 4914.9 | 5075.1 | 5415.9 | 5880.0 | 6019.0 | 5496.0 | 4964.4 | 4645.5 | 4450.0 | 4437.5 |
| 72.5° | 4321.2 | 4280.4 | 4514.4 | 5003.6 | 5646.0 | 5879.2 | 5243.9 | 4534.0 | 4132.8 | 3931.8 | 3908.2 |
| 75° | 2863.8 | 2952.5 | 3298.1 | 3874.4 | 4776.7 | 5065.7 | 4475.9 | 3640.4 | 3135.5 | 2968.3 | 2942.3 |
| 77.5° | 957.2 | 1025.5 | 1332.6 | 2196.3 | 3256.4 | 3690.7 | 3261.1 | 2380.9 | 1684.4 | 1356.9 | 1363.2 |
| 80° | 253.6 | 250.5 | 324.3 | 603.9 | 1407.2 | 2137.5 | 1638.0 | 806.5 | 441.3 | 319.6 | 303.1 |
| 82.5° | 91.1 | 102.1 | 131.1 | 167.3 | 373.0 | 664.3 | 468.8 | 226.2 | 165.7 | 122.5 | 118.6 |
| 85° | 40.0 | 39.3 | 56.5 | 66.7 | 93.4 | 124.1 | 109.9 | 95.8 | 84.0 | 55.8 | 51.8 |
| 87.5° | 8.6 | 8.6 | 13.3 | 10.2 | 16.5 | 16.5 | 20.4 | 24.3 | 25.1 | 16.5 | 13.3 |
| 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)