

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: P526796

Luminaire Tested: **GALN-SA1D-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6186 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

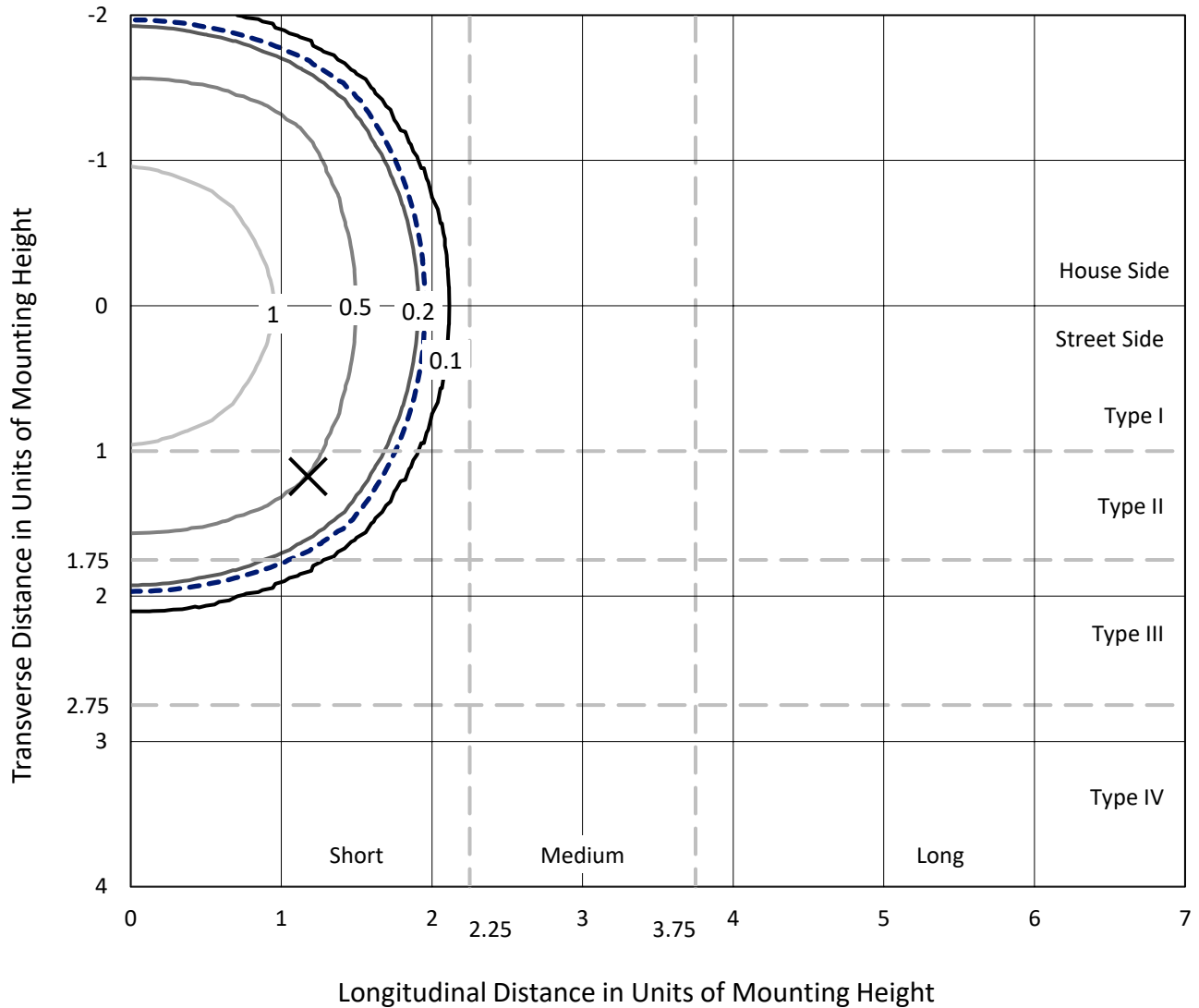
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

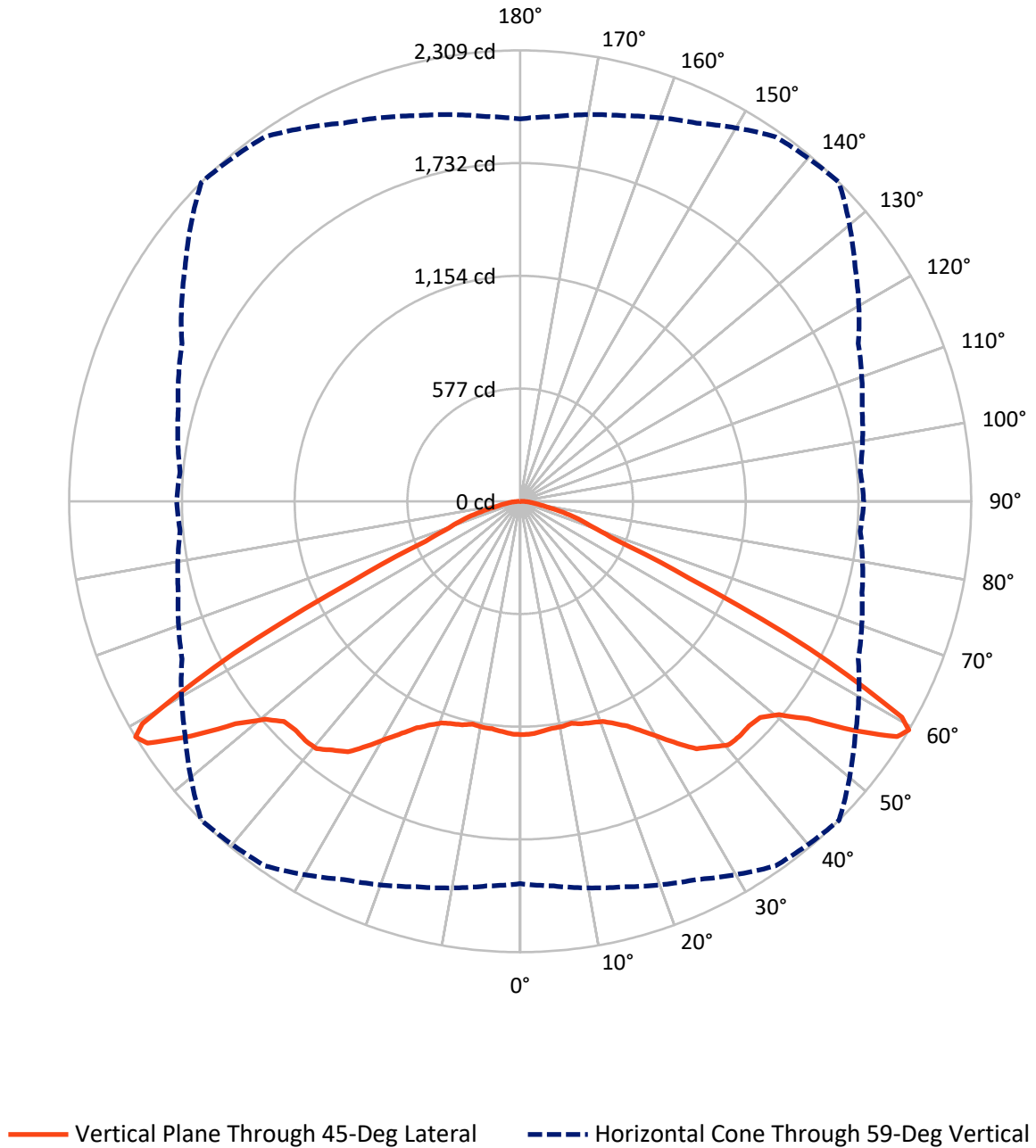
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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 | 3093.0 | 0.0 | 3093.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3093.0 | 0.0 | 3093.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6186.0 | 0.0 | 6186.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.6 | 1.8 |
| 10°-20° | 335.0 | 5.4 |
| 20°-30° | 584.9 | 9.5 |
| 30°-40° | 934.1 | 15.1 |
| 40°-50° | 1272.5 | 20.6 |
| 50°-60° | 1720.7 | 27.8 |
| 60°-70° | 943.6 | 15.3 |
| 70°-80° | 241.4 | 3.9 |
| 80°-90° | 41.2 | 0.7 |
| 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° | 6186.0 | 100.0 |
| 0°-180° | 6186.0 | 100.0 |

Coefficient of Utilization



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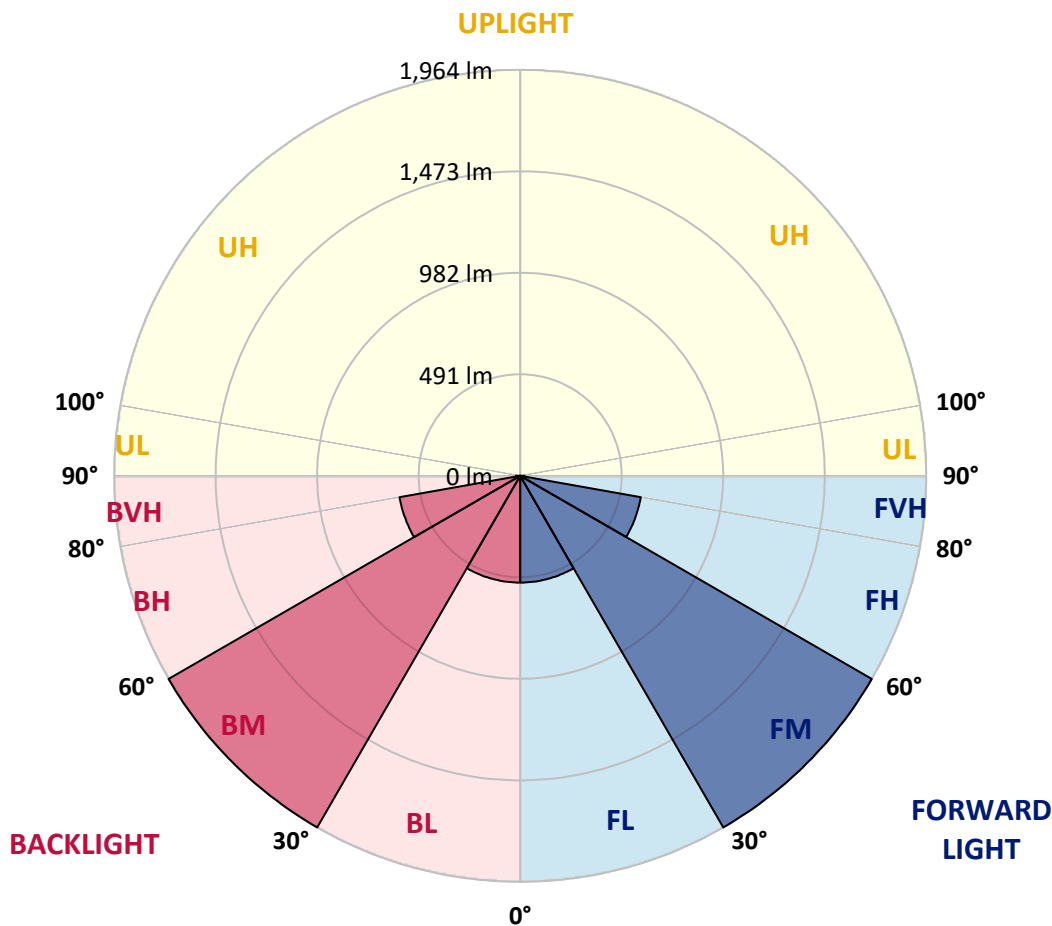
CATALOG NUMBER: GALN-SA1D-735-U-5WQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 516.2 | 8.3 | | | |
| FM (30°-60°) | 1963.7 | 31.7 | | | |
| FH (60°-80°) | 592.5 | 9.6 | | | G0/660 |
| FVH (80°-90°) | 20.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 516.2 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1963.7 | 31.7 | B2/2500 | | |
| BH (60°-80°) | 592.5 | 9.6 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 20.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 | 1194.8 |
| 2.5° | 1187.7 | 1196.4 | 1190.1 | 1195.6 | 1194.8 | 1192.5 | 1188.5 | 1186.1 | 1182.9 | 1187.7 | 1179.8 |
| 5° | 1182.9 | 1190.1 | 1197.2 | 1187.7 | 1187.7 | 1182.9 | 1180.6 | 1175.8 | 1175.8 | 1175.0 | 1174.2 |
| 7.5° | 1190.9 | 1183.7 | 1180.6 | 1182.2 | 1183.7 | 1173.4 | 1180.6 | 1171.1 | 1163.1 | 1168.7 | 1175.0 |
| 10° | 1183.7 | 1186.9 | 1175.0 | 1180.6 | 1171.8 | 1173.4 | 1168.7 | 1175.0 | 1166.3 | 1166.3 | 1166.3 |
| 12.5° | 1190.9 | 1182.2 | 1186.1 | 1182.2 | 1179.8 | 1166.3 | 1172.6 | 1165.5 | 1164.7 | 1172.6 | 1165.5 |
| 15° | 1205.1 | 1190.9 | 1187.7 | 1179.8 | 1182.2 | 1182.2 | 1175.8 | 1176.6 | 1167.9 | 1172.6 | 1174.2 |
| 17.5° | 1200.4 | 1192.5 | 1190.1 | 1180.6 | 1188.5 | 1190.9 | 1179.0 | 1171.1 | 1176.6 | 1175.8 | 1175.0 |
| 20° | 1204.4 | 1207.5 | 1205.1 | 1206.7 | 1209.9 | 1203.6 | 1192.5 | 1181.4 | 1174.2 | 1184.5 | 1183.7 |
| 22.5° | 1229.7 | 1226.6 | 1225.0 | 1223.4 | 1228.9 | 1235.3 | 1220.2 | 1202.8 | 1202.8 | 1209.9 | 1213.1 |
| 25° | 1250.3 | 1249.5 | 1248.8 | 1255.9 | 1274.9 | 1274.9 | 1255.9 | 1233.7 | 1228.1 | 1232.9 | 1228.9 |
| 27.5° | 1280.5 | 1289.2 | 1286.0 | 1298.7 | 1326.5 | 1332.8 | 1307.4 | 1281.3 | 1266.2 | 1260.6 | 1267.8 |
| 30° | 1349.4 | 1339.1 | 1341.5 | 1355.0 | 1379.6 | 1400.2 | 1361.3 | 1333.6 | 1313.0 | 1312.2 | 1315.4 |
| 32.5° | 1395.4 | 1403.4 | 1410.5 | 1423.2 | 1462.0 | 1477.9 | 1431.1 | 1385.9 | 1373.2 | 1366.1 | 1368.5 |
| 35° | 1487.4 | 1480.3 | 1478.7 | 1491.4 | 1530.2 | 1556.4 | 1497.7 | 1458.1 | 1441.4 | 1457.3 | 1457.3 |
| 37.5° | 1574.6 | 1554.8 | 1539.7 | 1556.4 | 1592.1 | 1595.2 | 1545.3 | 1523.9 | 1515.2 | 1533.4 | 1532.6 |
| 40° | 1615.8 | 1614.3 | 1579.4 | 1588.9 | 1636.5 | 1641.2 | 1594.4 | 1569.1 | 1567.5 | 1591.3 | 1615.1 |
| 42.5° | 1658.7 | 1643.6 | 1608.7 | 1615.1 | 1644.4 | 1646.0 | 1601.6 | 1594.4 | 1611.9 | 1634.9 | 1636.5 |
| 45° | 1665.8 | 1653.1 | 1630.9 | 1615.1 | 1636.5 | 1641.2 | 1615.1 | 1619.8 | 1621.4 | 1649.1 | 1649.1 |
| 47.5° | 1680.1 | 1678.5 | 1665.8 | 1653.9 | 1657.9 | 1653.9 | 1637.3 | 1644.4 | 1668.2 | 1681.7 | 1675.3 |
| 50° | 1719.7 | 1703.1 | 1715.7 | 1705.4 | 1706.2 | 1717.3 | 1702.3 | 1709.4 | 1704.6 | 1692.8 | 1684.8 |
| 52.5° | 1806.9 | 1799.0 | 1810.1 | 1817.2 | 1825.2 | 1850.5 | 1833.1 | 1795.0 | 1759.4 | 1727.6 | 1726.8 |
| 55° | 1934.6 | 1940.1 | 1961.5 | 1998.0 | 2028.9 | 2069.4 | 1985.3 | 1894.1 | 1837.1 | 1787.1 | 1790.3 |
| 57.5° | 2055.1 | 2051.1 | 2080.5 | 2163.7 | 2254.1 | 2274.7 | 2109.8 | 1979.8 | 1887.0 | 1855.3 | 1841.8 |
| 59° | 1958.4 | 1977.4 | 2044.0 | 2136.8 | 2278.7 | 2308.8 | 2093.1 | 1910.0 | 1811.7 | 1747.5 | 1758.6 |
| 60° | 1806.1 | 1813.3 | 1872.7 | 2002.0 | 2193.8 | 2245.4 | 1981.4 | 1802.2 | 1671.3 | 1634.1 | 1650.7 |
| 62.5° | 1276.5 | 1271.0 | 1313.8 | 1419.2 | 1591.3 | 1661.0 | 1473.1 | 1347.1 | 1264.6 | 1223.4 | 1232.9 |
| 65° | 678.7 | 704.1 | 721.5 | 787.3 | 878.5 | 952.2 | 874.5 | 819.8 | 773.8 | 739.7 | 738.9 |
| 67.5° | 458.3 | 455.1 | 459.1 | 474.1 | 505.1 | 525.7 | 524.1 | 496.3 | 492.4 | 486.0 | 493.2 |
| 70° | 386.1 | 384.5 | 377.4 | 377.4 | 383.7 | 388.5 | 394.1 | 397.2 | 403.6 | 411.5 | 410.7 |
| 72.5° | 313.2 | 309.2 | 304.5 | 302.1 | 310.0 | 312.4 | 319.5 | 322.7 | 328.2 | 327.5 | 334.6 |
| 75° | 206.9 | 206.9 | 212.5 | 218.8 | 221.2 | 226.0 | 226.8 | 236.3 | 236.3 | 237.9 | 231.5 |
| 77.5° | 115.8 | 112.6 | 116.6 | 122.9 | 128.4 | 137.2 | 145.9 | 153.0 | 157.0 | 155.4 | 155.4 |
| 80° | 67.4 | 67.4 | 71.4 | 78.5 | 85.6 | 93.6 | 99.9 | 105.5 | 109.4 | 107.8 | 104.7 |
| 82.5° | 42.0 | 42.0 | 46.0 | 53.1 | 58.7 | 63.4 | 72.2 | 79.3 | 84.0 | 82.5 | 78.5 |
| 85° | 21.4 | 21.4 | 26.2 | 30.9 | 38.1 | 41.2 | 40.4 | 37.3 | 36.5 | 32.5 | 32.5 |
| 87.5° | 5.6 | 5.6 | 7.9 | 8.7 | 7.1 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 8.7 |
| 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)