

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: STREETWORKS

Report Number: P479676

Luminaire Tested: **IFLD-S-SA2E-735-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479676
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

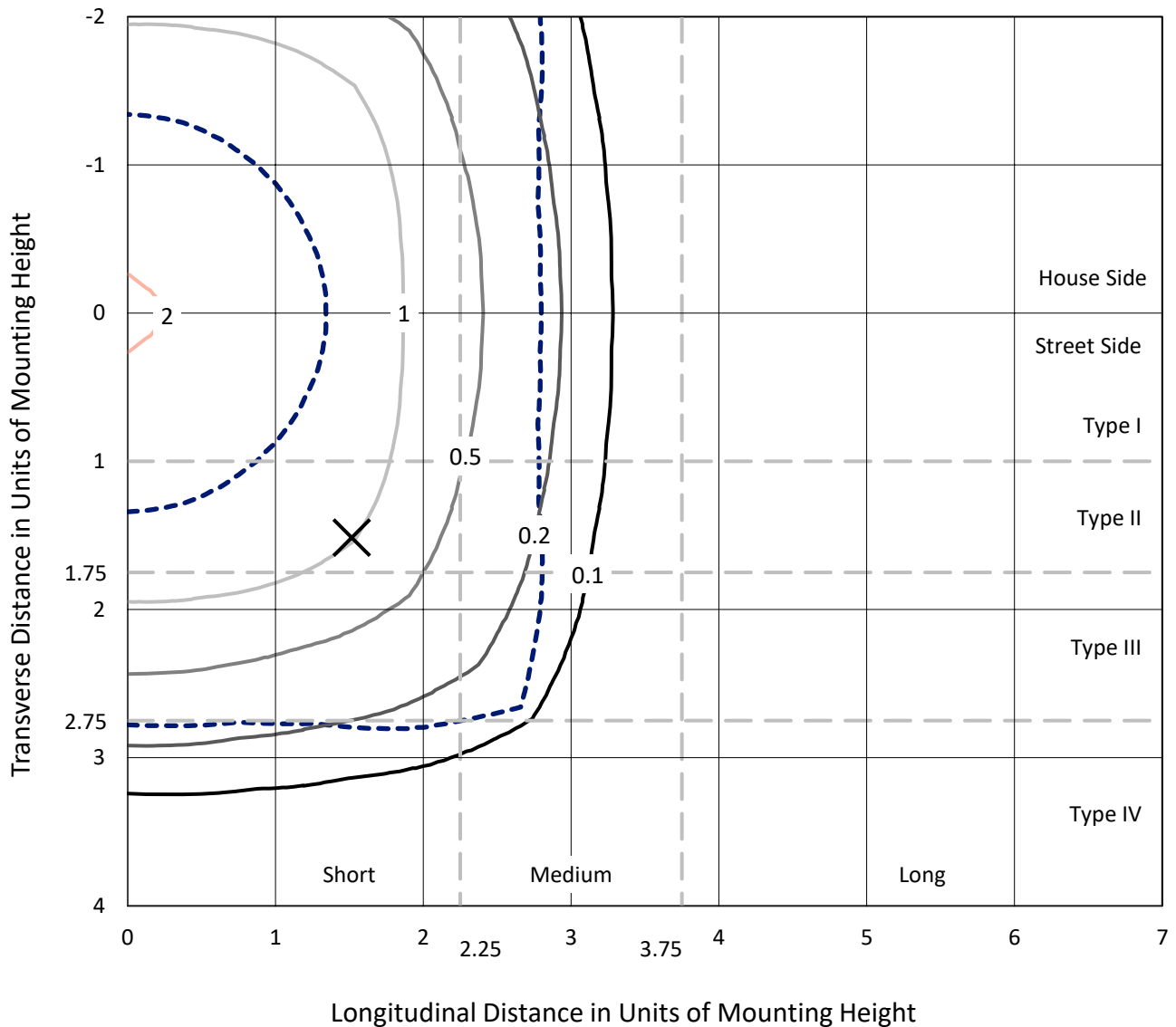
Lumens per Lamp: N/A
Luminaire Lumens: 18319 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.2
Input Voltage (V): 120
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

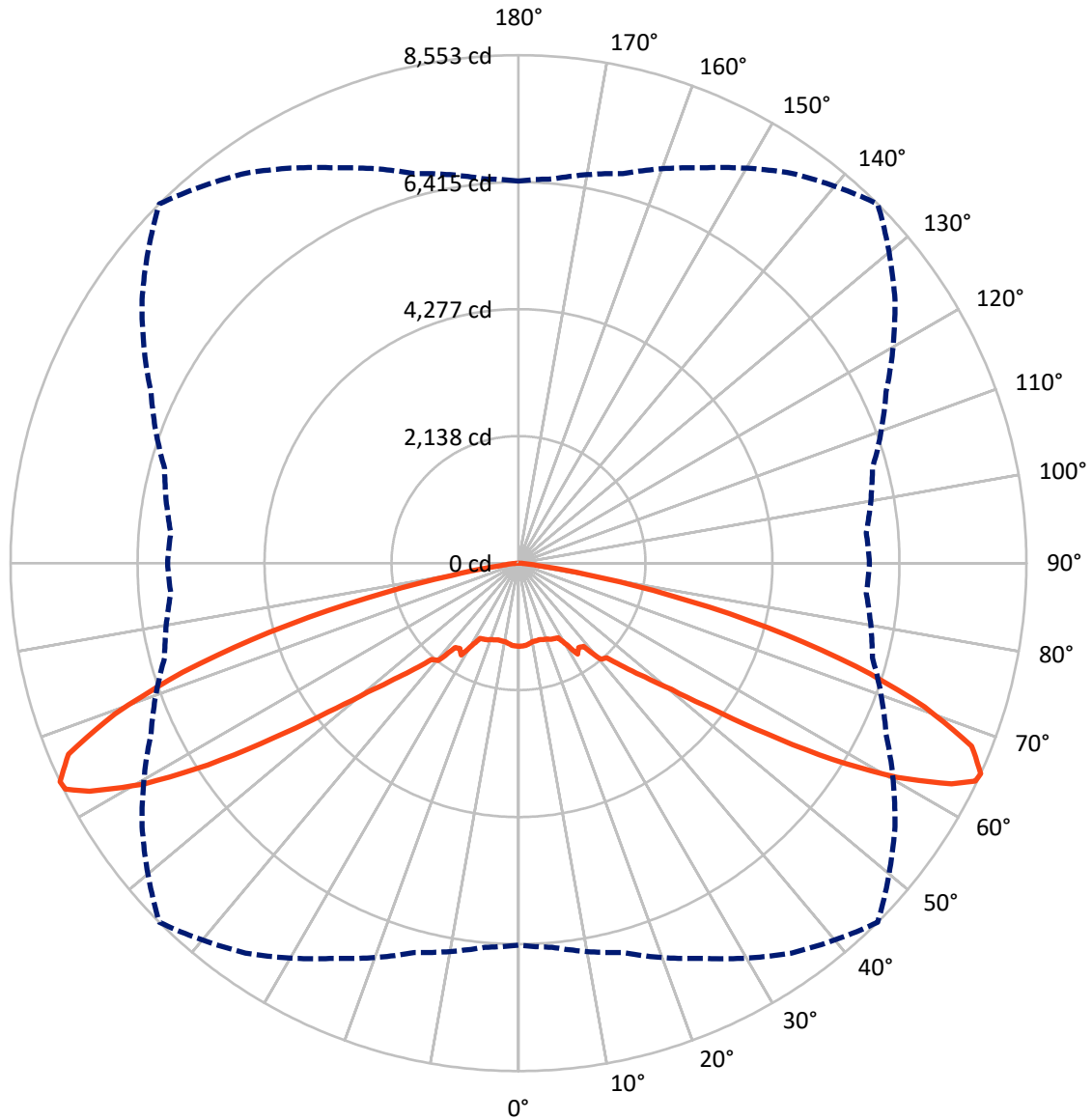
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9159.5 | 0.0 | 9159.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9159.5 | 0.0 | 9159.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18319.0 | 0.0 | 18319.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 131.4 | 0.7 |
| 10°-20° | 386.1 | 2.1 |
| 20°-30° | 668.3 | 3.6 |
| 30°-40° | 1111.2 | 6.1 |
| 40°-50° | 2004.9 | 10.9 |
| 50°-60° | 4466.1 | 24.4 |
| 60°-70° | 6656.0 | 36.3 |
| 70°-80° | 2758.3 | 15.1 |
| 80°-90° | 136.6 | 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° | 18319.0 | 100.0 |
| 0°-180° | 18319.0 | 100.0 |

Coefficient of Utilization



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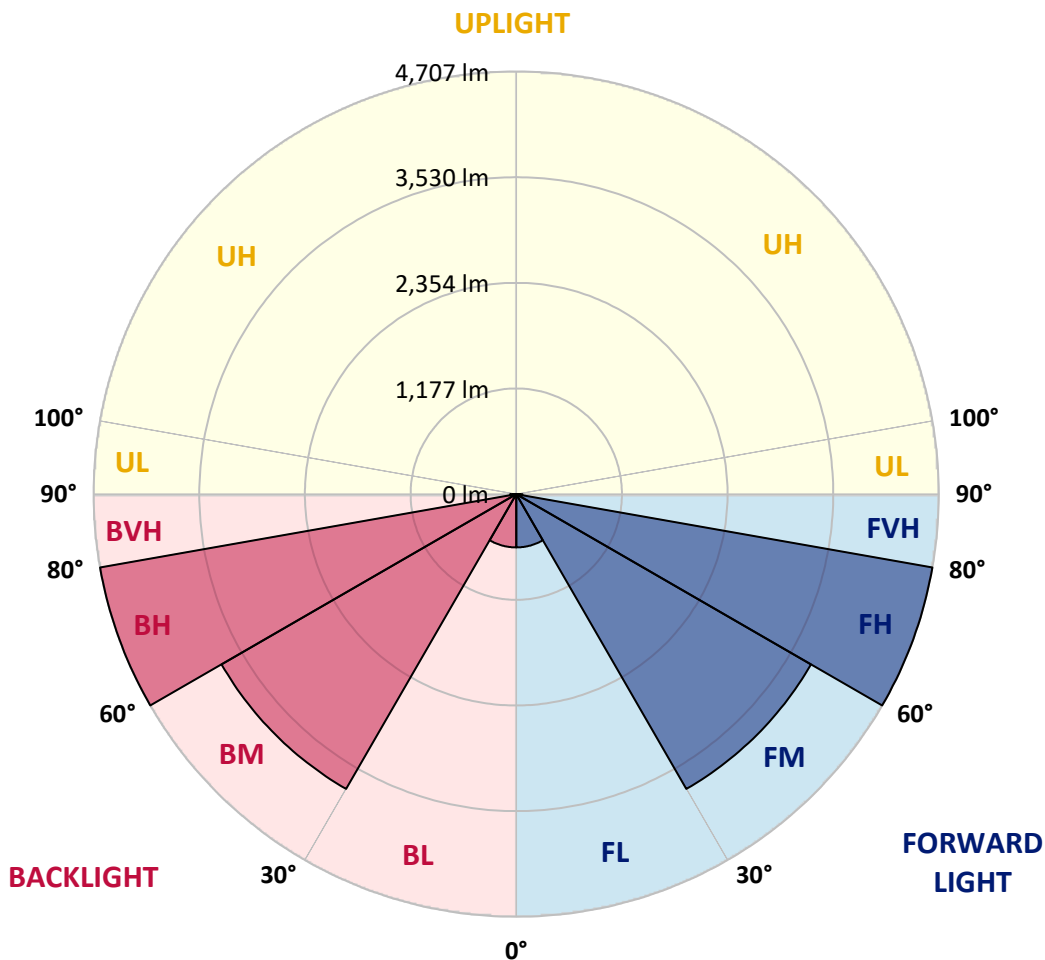
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 592.9 | 3.2 | | | |
| FM (30°-60°) | 3791.1 | 20.7 | | | |
| FH (60°-80°) | 4707.1 | 25.7 | | | G2/5000 |
| FVH (80°-90°) | 68.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 592.9 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 3791.1 | 20.7 | B3/5000 | | |
| BH (60°-80°) | 4707.1 | 25.7 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 68.3 | 0.4 | | | 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° | 1400.6 | 1400.6 | 1400.6 | 1400.6 | 1400.6 | 1400.6 | 1400.6 | 1400.6 | 1400.6 | 1400.6 | 1400.6 |
| 2.5° | 1384.4 | 1388.5 | 1386.4 | 1386.4 | 1392.5 | 1396.5 | 1398.6 | 1418.8 | 1410.7 | 1416.8 | 1410.7 |
| 5° | 1388.5 | 1388.5 | 1392.5 | 1388.5 | 1392.5 | 1388.5 | 1392.5 | 1386.4 | 1392.5 | 1396.5 | 1402.6 |
| 7.5° | 1380.4 | 1376.3 | 1370.2 | 1370.2 | 1368.2 | 1364.2 | 1358.1 | 1374.3 | 1366.2 | 1372.3 | 1382.4 |
| 10° | 1382.4 | 1376.3 | 1356.1 | 1360.1 | 1341.9 | 1341.9 | 1345.9 | 1345.9 | 1364.2 | 1384.4 | 1390.5 |
| 12.5° | 1382.4 | 1370.2 | 1364.2 | 1337.9 | 1337.9 | 1339.9 | 1350.0 | 1354.0 | 1366.2 | 1374.3 | 1394.5 |
| 15° | 1382.4 | 1376.3 | 1366.2 | 1331.8 | 1339.9 | 1335.8 | 1345.9 | 1345.9 | 1372.3 | 1386.4 | 1396.5 |
| 17.5° | 1390.5 | 1394.5 | 1376.3 | 1343.9 | 1345.9 | 1354.0 | 1348.0 | 1354.0 | 1386.4 | 1396.5 | 1410.7 |
| 20° | 1392.5 | 1376.3 | 1370.2 | 1350.0 | 1368.2 | 1364.2 | 1362.1 | 1374.3 | 1384.4 | 1402.6 | 1418.8 |
| 22.5° | 1388.5 | 1394.5 | 1370.2 | 1368.2 | 1384.4 | 1392.5 | 1396.5 | 1382.4 | 1394.5 | 1406.7 | 1420.8 |
| 25° | 1422.9 | 1400.6 | 1394.5 | 1390.5 | 1398.6 | 1406.7 | 1402.6 | 1414.8 | 1414.8 | 1428.9 | 1447.1 |
| 27.5° | 1516.0 | 1518.0 | 1505.8 | 1457.3 | 1441.1 | 1422.9 | 1431.0 | 1463.3 | 1501.8 | 1532.2 | 1538.2 |
| 30° | 1558.5 | 1566.6 | 1598.9 | 1590.9 | 1584.8 | 1590.9 | 1588.8 | 1596.9 | 1601.0 | 1603.0 | 1596.9 |
| 32.5° | 1596.9 | 1592.9 | 1578.7 | 1615.1 | 1734.6 | 1825.6 | 1738.6 | 1619.2 | 1592.9 | 1584.8 | 1592.9 |
| 35° | 1736.6 | 1736.6 | 1706.2 | 1659.7 | 1722.4 | 1744.7 | 1704.2 | 1647.5 | 1679.9 | 1746.7 | 1750.7 |
| 37.5° | 1916.7 | 1890.4 | 1902.5 | 1896.5 | 1827.7 | 1779.1 | 1849.9 | 1886.4 | 1892.4 | 1890.4 | 1910.6 |
| 40° | 2024.0 | 2005.8 | 1987.6 | 2019.9 | 2082.7 | 2127.2 | 2064.5 | 1977.4 | 1999.7 | 2044.2 | 2026.0 |
| 42.5° | 2268.9 | 2222.3 | 2226.4 | 2194.0 | 2192.0 | 2177.8 | 2163.6 | 2169.7 | 2202.1 | 2252.7 | 2260.8 |
| 45° | 2519.9 | 2542.1 | 2528.0 | 2467.2 | 2495.6 | 2495.6 | 2455.1 | 2485.5 | 2501.6 | 2560.3 | 2568.4 |
| 47.5° | 2912.5 | 2902.4 | 2908.5 | 2853.8 | 2851.8 | 2866.0 | 2851.8 | 2853.8 | 2904.4 | 2900.4 | 2878.1 |
| 50° | 3372.0 | 3400.3 | 3408.4 | 3382.1 | 3349.7 | 3343.6 | 3321.4 | 3349.7 | 3380.1 | 3382.1 | 3363.9 |
| 52.5° | 4007.5 | 4037.8 | 4037.8 | 4045.9 | 4086.4 | 4066.2 | 4062.1 | 4064.2 | 4005.5 | 3965.0 | 3985.2 |
| 55° | 4809.0 | 4819.1 | 4853.5 | 4924.3 | 5047.8 | 5064.0 | 4987.1 | 4952.7 | 4845.4 | 4780.6 | 4831.2 |
| 57.5° | 5600.4 | 5640.8 | 5736.0 | 5920.1 | 6071.9 | 6237.9 | 6015.3 | 5788.6 | 5578.1 | 5474.9 | 5493.1 |
| 60° | 6258.2 | 6316.8 | 6499.0 | 6756.1 | 7177.0 | 7328.8 | 6952.4 | 6563.8 | 6136.7 | 5821.0 | 5948.5 |
| 62.5° | 6567.8 | 6658.9 | 6812.7 | 7332.9 | 7964.4 | 8183.0 | 7630.4 | 6924.0 | 6276.4 | 5972.8 | 5966.7 |
| 64° | 6569.8 | 6584.0 | 6891.7 | 7452.3 | 8102.0 | 8525.0 | 7794.4 | 6924.0 | 6310.8 | 5936.3 | 6005.2 |
| 65° | 6434.2 | 6492.9 | 6790.5 | 7343.0 | 8015.0 | 8553.3 | 7737.7 | 6828.9 | 6169.1 | 5877.6 | 5910.0 |
| 67.5° | 5818.9 | 5816.9 | 6092.2 | 6640.7 | 7573.7 | 8231.5 | 7256.0 | 6296.6 | 5818.9 | 5503.2 | 5541.7 |
| 70° | 4414.3 | 4485.1 | 4748.3 | 5422.2 | 6553.7 | 7258.0 | 6345.2 | 5351.4 | 4756.4 | 4503.4 | 4489.2 |
| 72.5° | 2641.3 | 2734.4 | 3070.4 | 3892.1 | 5090.3 | 5946.5 | 5035.7 | 3958.9 | 3242.4 | 2841.7 | 2851.8 |
| 75° | 1204.3 | 1273.1 | 1503.8 | 2173.8 | 3392.2 | 4347.5 | 3412.4 | 2289.1 | 1641.4 | 1386.4 | 1350.0 |
| 77.5° | 338.0 | 380.5 | 508.0 | 997.8 | 1862.1 | 2606.9 | 1914.7 | 1103.1 | 716.5 | 595.1 | 582.9 |
| 80° | 151.8 | 159.9 | 180.1 | 242.9 | 591.0 | 1149.6 | 791.4 | 404.8 | 269.2 | 222.6 | 212.5 |
| 82.5° | 83.0 | 89.1 | 117.4 | 125.5 | 168.0 | 305.6 | 261.1 | 190.3 | 161.9 | 129.5 | 125.5 |
| 85° | 46.6 | 48.6 | 66.8 | 66.8 | 81.0 | 89.1 | 95.1 | 101.2 | 99.2 | 72.9 | 70.8 |
| 87.5° | 14.2 | 16.2 | 20.2 | 20.2 | 20.2 | 20.2 | 32.4 | 44.5 | 48.6 | 34.4 | 34.4 |
| 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)