

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: P479636

Luminaire Tested: **IFLD-S-SA2D-730-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479636
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

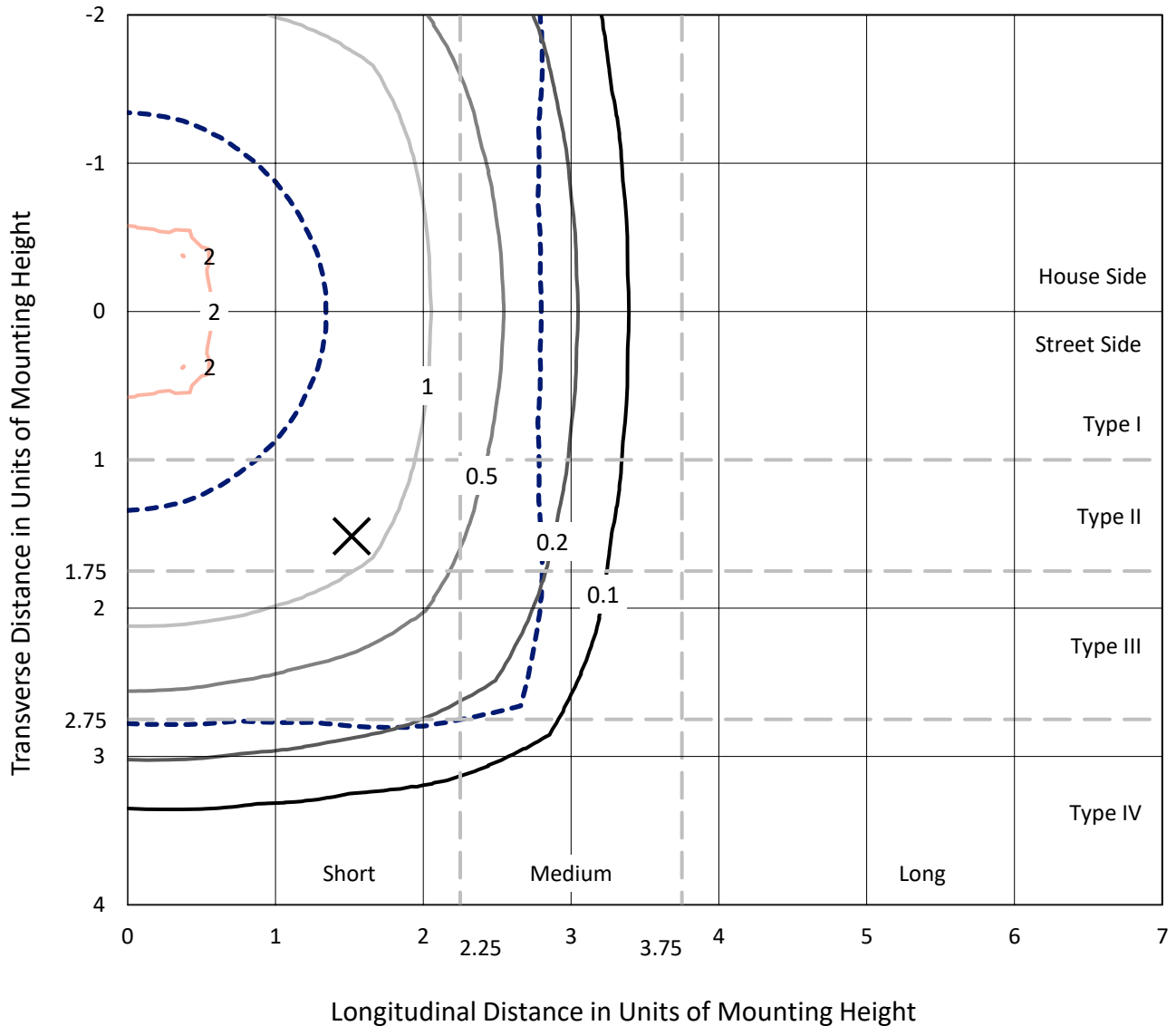
Lumens per Lamp: N/A
Luminaire Lumens: 14614.3 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9
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

REPORT NUMBER: P479636
 CATALOG NUMBER: IFLD-S-SA2D-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

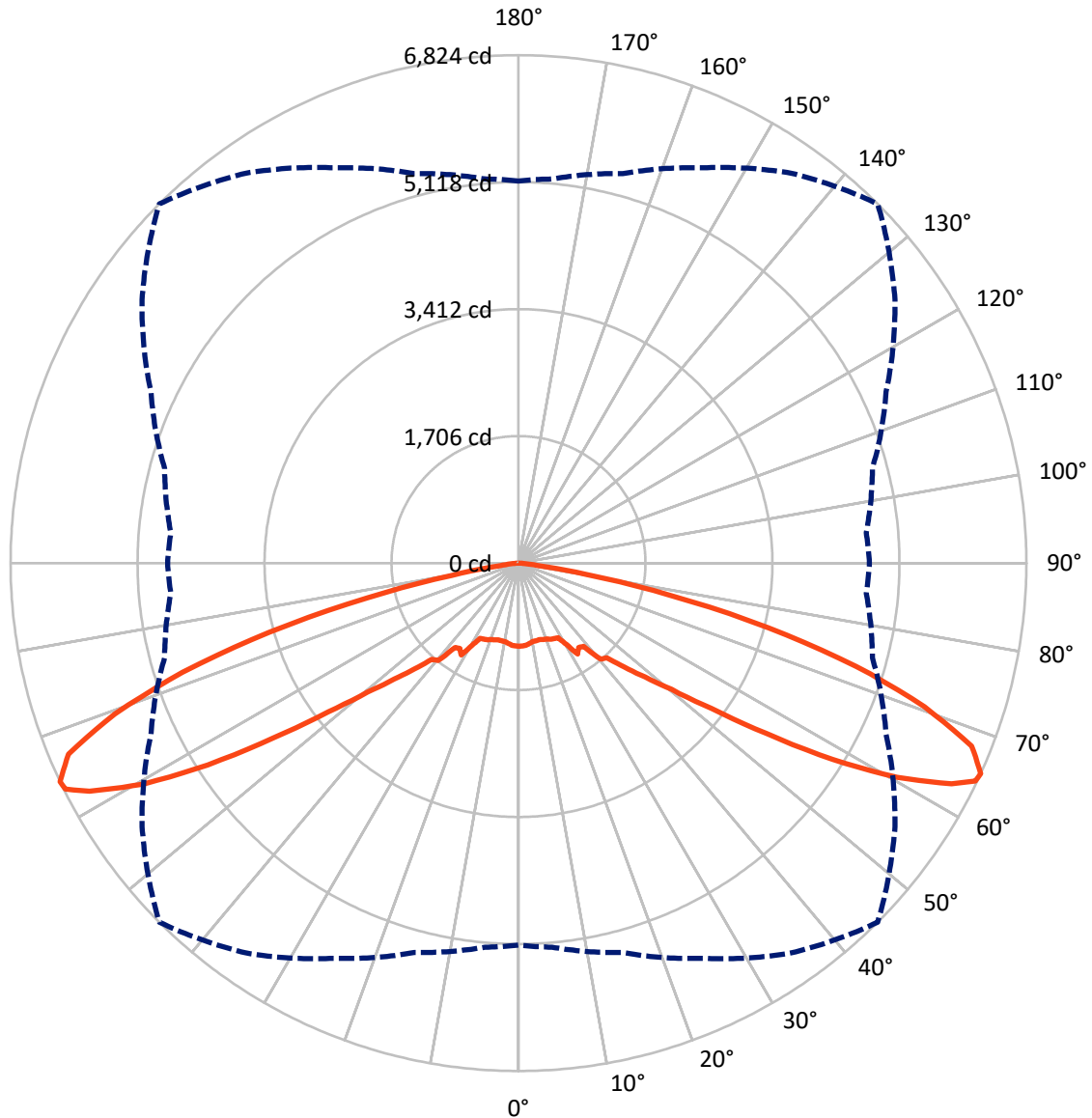
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

REPORT NUMBER: P479636
CATALOG NUMBER: IFLD-S-SA2D-730-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479636

CATALOG NUMBER: IFLD-S-SA2D-730-U-5WQ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7307.2 | 0.0 | 7307.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7307.2 | 0.0 | 7307.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14614.3 | 0.0 | 14614.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 104.9 | 0.7 |
| 10°-20° | 308.0 | 2.1 |
| 20°-30° | 533.1 | 3.6 |
| 30°-40° | 886.5 | 6.1 |
| 40°-50° | 1599.4 | 10.9 |
| 50°-60° | 3562.9 | 24.4 |
| 60°-70° | 5309.9 | 36.3 |
| 70°-80° | 2200.5 | 15.1 |
| 80°-90° | 109.0 | 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° | 14614.3 | 100.0 |
| 0°-180° | 14614.3 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P479636

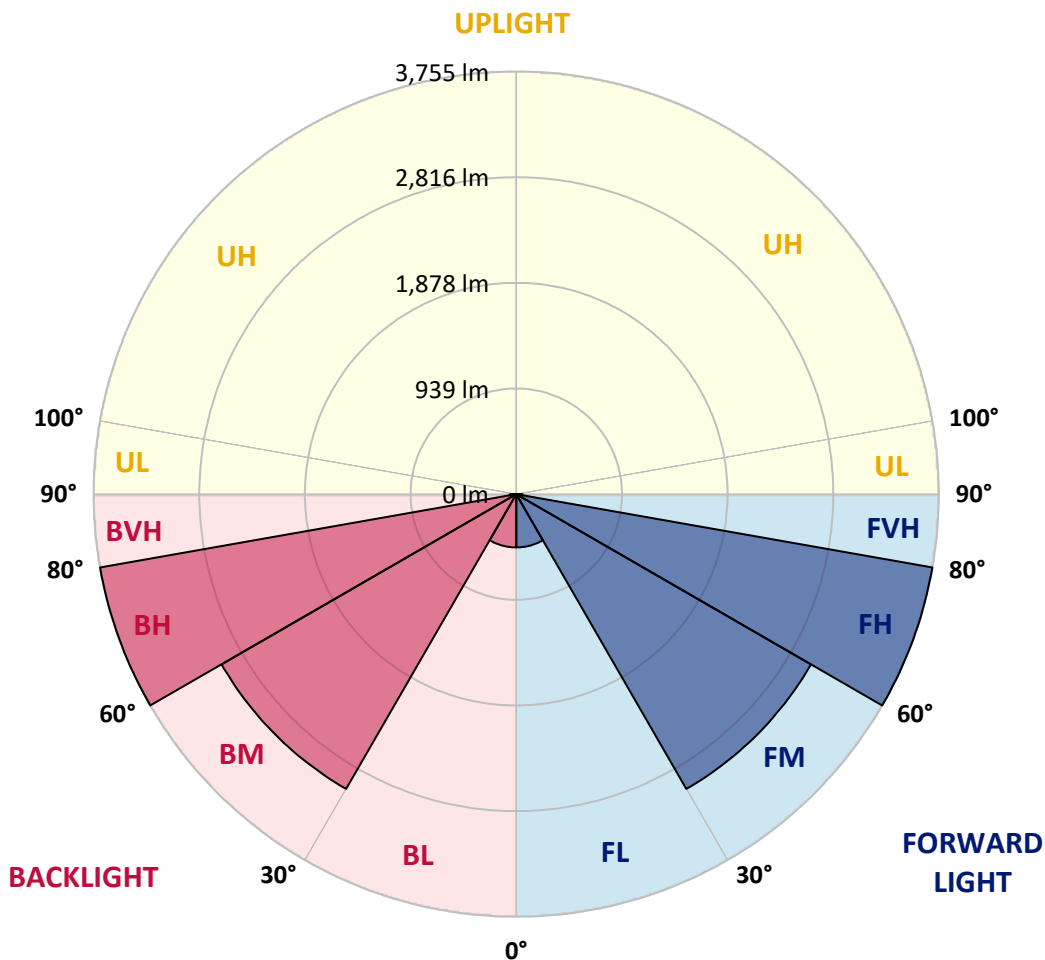
CATALOG NUMBER: IFLD-S-SA2D-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 473.0 | 3.2 | | | |
| FM (30°-60°) | 3024.4 | 20.7 | | | |
| FH (60°-80°) | 3755.2 | 25.7 | | | G2/5000 |
| FVH (80°-90°) | 54.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 473.0 | 3.2 | B1/500 | | |
| BM (30°-60°) | 3024.4 | 20.7 | B3/5000 | | |
| BH (60°-80°) | 3755.2 | 25.7 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 54.5 | 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





REPORT NUMBER: P479636
 CATALOG NUMBER: IFLD-S-SA2D-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 | 1117.4 |
| 2.5° | 1104.4 | 1107.7 | 1106.1 | 1106.1 | 1110.9 | 1114.1 | 1115.7 | 1131.9 | 1125.4 | 1130.3 | 1125.4 |
| 5° | 1107.7 | 1107.7 | 1110.9 | 1107.7 | 1110.9 | 1107.7 | 1110.9 | 1106.1 | 1110.9 | 1114.1 | 1119.0 |
| 7.5° | 1101.2 | 1098.0 | 1093.1 | 1093.1 | 1091.5 | 1088.3 | 1083.4 | 1096.4 | 1089.9 | 1094.8 | 1102.8 |
| 10° | 1102.8 | 1098.0 | 1081.8 | 1085.1 | 1070.5 | 1070.5 | 1073.8 | 1073.8 | 1088.3 | 1104.4 | 1109.3 |
| 12.5° | 1102.8 | 1093.1 | 1088.3 | 1067.3 | 1067.3 | 1068.9 | 1077.0 | 1080.2 | 1089.9 | 1096.4 | 1112.5 |
| 15° | 1102.8 | 1098.0 | 1089.9 | 1062.5 | 1068.9 | 1065.7 | 1073.8 | 1073.8 | 1094.8 | 1106.1 | 1114.1 |
| 17.5° | 1109.3 | 1112.5 | 1098.0 | 1072.1 | 1073.8 | 1080.2 | 1075.4 | 1080.2 | 1106.1 | 1114.1 | 1125.4 |
| 20° | 1110.9 | 1098.0 | 1093.1 | 1077.0 | 1091.5 | 1088.3 | 1086.7 | 1096.4 | 1104.4 | 1119.0 | 1131.9 |
| 22.5° | 1107.7 | 1112.5 | 1093.1 | 1091.5 | 1104.4 | 1110.9 | 1114.1 | 1102.8 | 1112.5 | 1122.2 | 1133.5 |
| 25° | 1135.1 | 1117.4 | 1112.5 | 1109.3 | 1115.7 | 1122.2 | 1119.0 | 1128.7 | 1128.7 | 1140.0 | 1154.5 |
| 27.5° | 1209.4 | 1211.0 | 1201.3 | 1162.6 | 1149.6 | 1135.1 | 1141.6 | 1167.4 | 1198.1 | 1222.3 | 1227.2 |
| 30° | 1243.3 | 1249.8 | 1275.6 | 1269.1 | 1264.3 | 1269.1 | 1267.5 | 1274.0 | 1277.2 | 1278.8 | 1274.0 |
| 32.5° | 1274.0 | 1270.8 | 1259.4 | 1288.5 | 1383.8 | 1456.4 | 1387.0 | 1291.7 | 1270.8 | 1264.3 | 1270.8 |
| 35° | 1385.4 | 1385.4 | 1361.2 | 1324.0 | 1374.1 | 1391.9 | 1359.6 | 1314.3 | 1340.2 | 1393.5 | 1396.7 |
| 37.5° | 1529.1 | 1508.1 | 1517.8 | 1513.0 | 1458.1 | 1419.3 | 1475.8 | 1504.9 | 1509.7 | 1508.1 | 1524.3 |
| 40° | 1614.7 | 1600.1 | 1585.6 | 1611.4 | 1661.5 | 1697.0 | 1647.0 | 1577.5 | 1595.3 | 1630.8 | 1616.3 |
| 42.5° | 1810.1 | 1772.9 | 1776.1 | 1750.3 | 1748.7 | 1737.4 | 1726.1 | 1730.9 | 1756.8 | 1797.1 | 1803.6 |
| 45° | 2010.3 | 2028.0 | 2016.7 | 1968.3 | 1990.9 | 1990.9 | 1958.6 | 1982.8 | 1995.7 | 2042.6 | 2049.0 |
| 47.5° | 2323.5 | 2315.4 | 2320.3 | 2276.7 | 2275.1 | 2286.4 | 2275.1 | 2276.7 | 2317.1 | 2313.8 | 2296.1 |
| 50° | 2690.1 | 2712.7 | 2719.1 | 2698.1 | 2672.3 | 2667.4 | 2649.7 | 2672.3 | 2696.5 | 2698.1 | 2683.6 |
| 52.5° | 3197.1 | 3221.3 | 3221.3 | 3227.7 | 3260.0 | 3243.9 | 3240.7 | 3242.3 | 3195.4 | 3163.2 | 3179.3 |
| 55° | 3836.5 | 3844.5 | 3872.0 | 3928.5 | 4027.0 | 4039.9 | 3978.6 | 3951.1 | 3865.5 | 3813.9 | 3854.2 |
| 57.5° | 4467.8 | 4500.1 | 4576.0 | 4722.9 | 4844.0 | 4976.4 | 4798.8 | 4618.0 | 4450.0 | 4367.7 | 4382.2 |
| 60° | 4992.6 | 5039.4 | 5184.7 | 5389.8 | 5725.6 | 5846.7 | 5546.4 | 5236.4 | 4895.7 | 4643.8 | 4745.5 |
| 62.5° | 5239.6 | 5312.3 | 5435.0 | 5850.0 | 6353.8 | 6528.1 | 6087.3 | 5523.8 | 5007.1 | 4764.9 | 4760.1 |
| 64° | 5241.2 | 5252.5 | 5498.0 | 5945.2 | 6463.5 | 6801.0 | 6218.1 | 5523.8 | 5034.6 | 4735.8 | 4790.7 |
| 65° | 5133.1 | 5179.9 | 5417.2 | 5858.0 | 6394.1 | 6823.6 | 6172.9 | 5447.9 | 4921.5 | 4689.0 | 4714.9 |
| 67.5° | 4642.2 | 4640.6 | 4860.2 | 5297.8 | 6042.1 | 6566.9 | 5788.6 | 5023.3 | 4642.2 | 4390.3 | 4421.0 |
| 70° | 3521.6 | 3578.1 | 3788.0 | 4325.7 | 5228.3 | 5790.2 | 5062.0 | 4269.2 | 3794.5 | 3592.7 | 3581.4 |
| 72.5° | 2107.2 | 2181.4 | 2449.5 | 3105.0 | 4060.9 | 4743.9 | 4017.3 | 3158.3 | 2586.7 | 2267.0 | 2275.1 |
| 75° | 960.7 | 1015.6 | 1199.7 | 1734.2 | 2706.2 | 3468.3 | 2722.3 | 1826.2 | 1309.5 | 1106.1 | 1077.0 |
| 77.5° | 269.7 | 303.6 | 405.3 | 796.0 | 1485.5 | 2079.7 | 1527.5 | 880.0 | 571.6 | 474.7 | 465.0 |
| 80° | 121.1 | 127.6 | 143.7 | 193.8 | 471.5 | 917.1 | 631.3 | 322.9 | 214.8 | 177.6 | 169.5 |
| 82.5° | 66.2 | 71.0 | 93.7 | 100.1 | 134.0 | 243.8 | 208.3 | 151.8 | 129.2 | 103.3 | 100.1 |
| 85° | 37.1 | 38.8 | 53.3 | 53.3 | 64.6 | 71.0 | 75.9 | 80.7 | 79.1 | 58.1 | 56.5 |
| 87.5° | 11.3 | 12.9 | 16.1 | 16.1 | 16.1 | 16.1 | 25.8 | 35.5 | 38.8 | 27.4 | 27.4 |
| 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)