

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: P157458

Luminaire Tested: **VTS-E05-LED-E1-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157458
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E05-LED-E1-5WQ-8030
Description: VENTUS LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

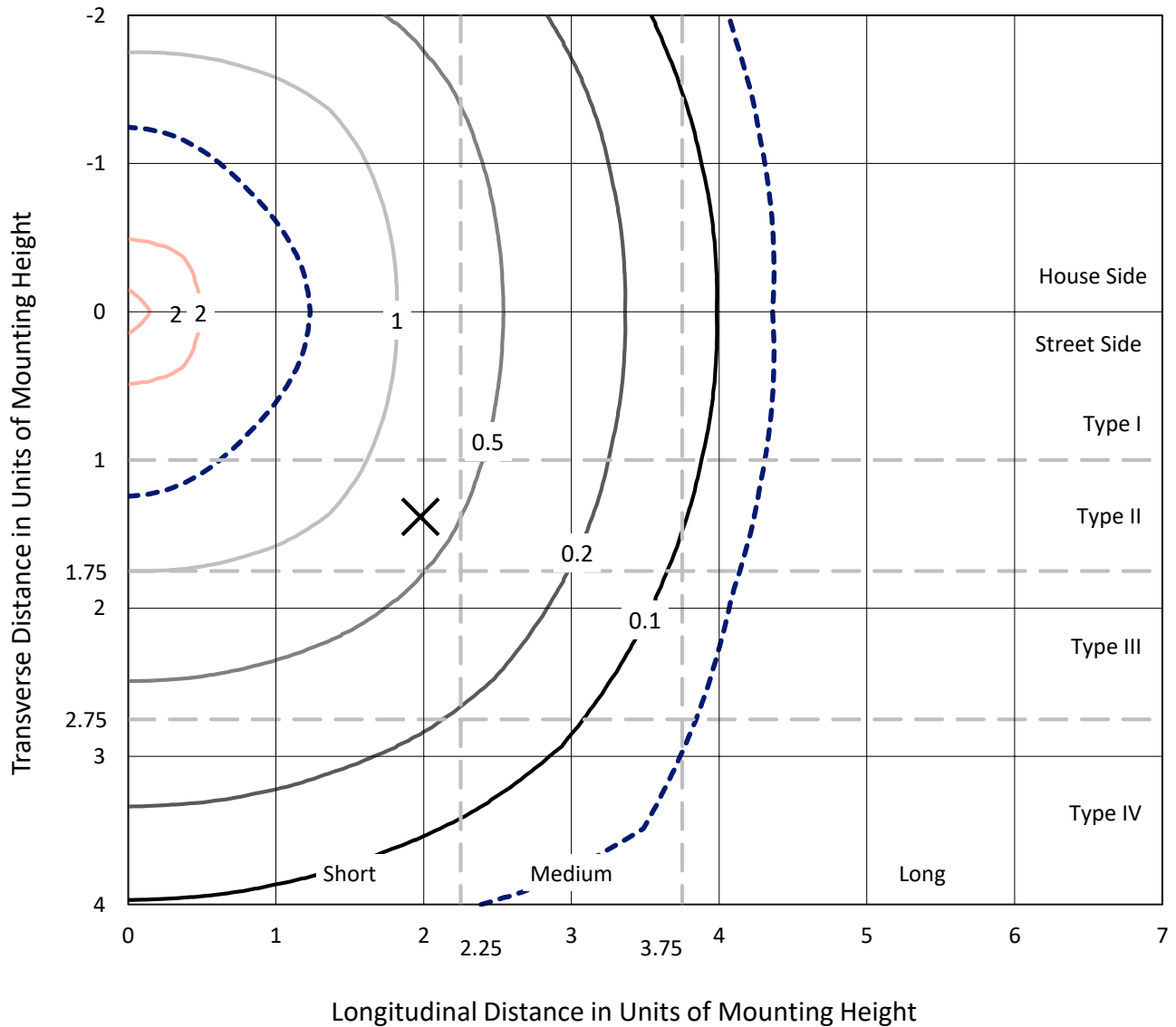
Lumens per Lamp: N/A
Luminaire Lumens: 13324.5 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

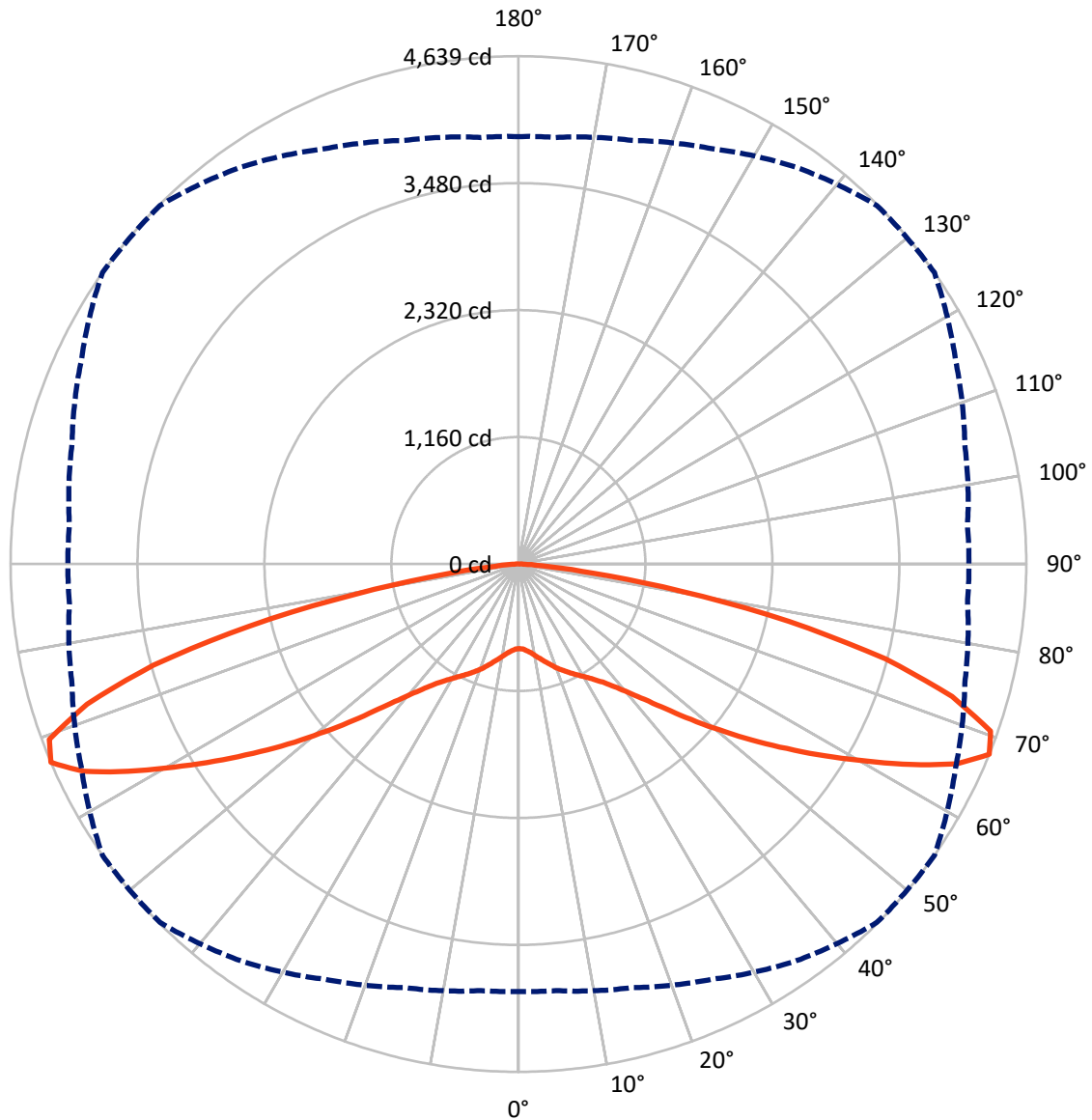
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6662.2 | 0.0 | 6662.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6662.2 | 0.0 | 6662.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13324.5 | 0.0 | 13324.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 77.6 | 0.6 |
| 10°-20° | 265.1 | 2.0 |
| 20°-30° | 509.8 | 3.8 |
| 30°-40° | 835.1 | 6.3 |
| 40°-50° | 1451.7 | 10.9 |
| 50°-60° | 2591.2 | 19.4 |
| 60°-70° | 4000.7 | 30.0 |
| 70°-80° | 3238.6 | 24.3 |
| 80°-90° | 354.7 | 2.7 |
| 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° | 13324.5 | 100.0 |
| 0°-180° | 13324.5 | 100.0 |



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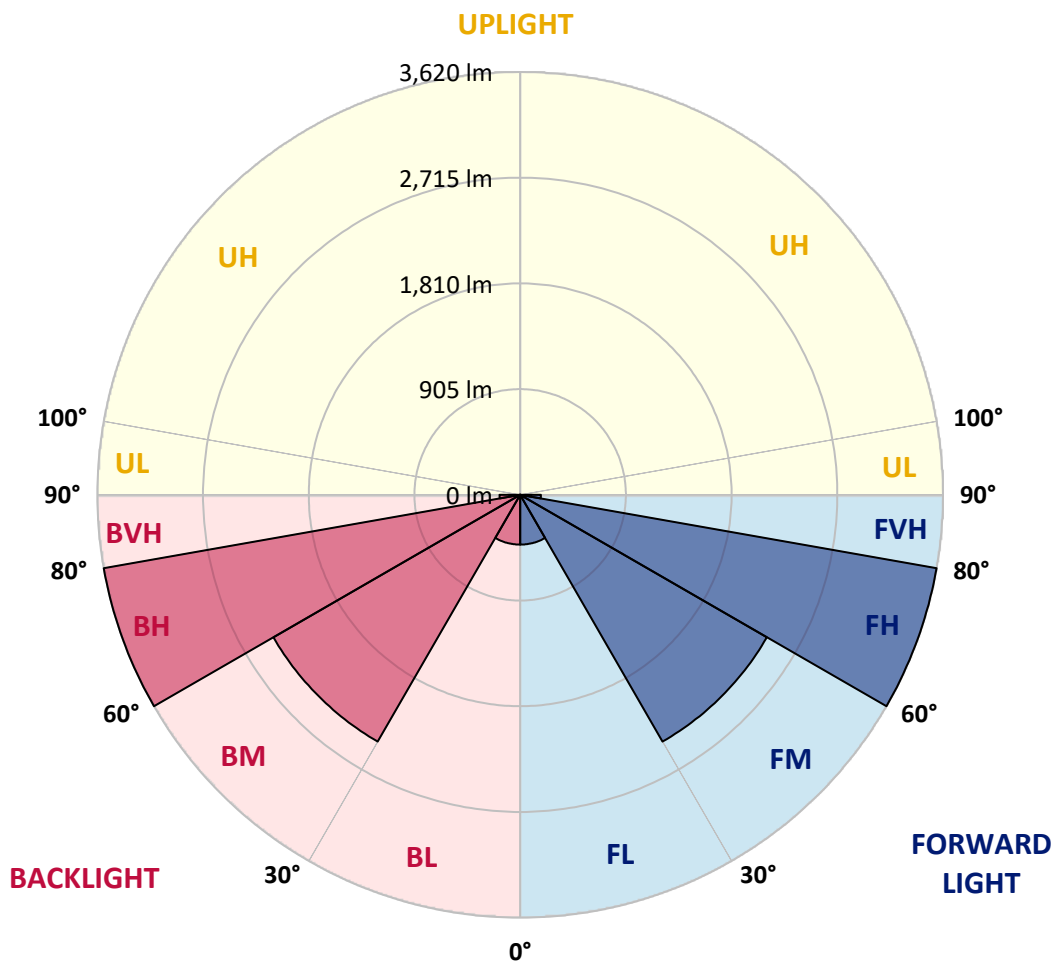
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 426.2 | 3.2 | | | |
| FM (30°-60°) | 2439.0 | 18.3 | | | |
| FH (60°-80°) | 3619.6 | 27.2 | | | G2/5000 |
| FVH (80°-90°) | 177.4 | 1.3 | | | G2/225 |
| BL (0°-30°) | 426.2 | 3.2 | B1/500 | | |
| BM (30°-60°) | 2439.0 | 18.3 | B2/2500 | | |
| BH (60°-80°) | 3619.6 | 27.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 177.4 | 1.3 | | | 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° | 773.1 | 773.1 | 773.1 | 773.1 | 773.1 | 773.1 | 773.1 | 773.1 | 773.1 | 773.1 | 773.1 |
| 2.5° | 778.2 | 779.0 | 778.2 | 778.2 | 777.3 | 777.3 | 777.3 | 778.2 | 778.2 | 779.8 | 779.0 |
| 5° | 794.2 | 795.0 | 793.4 | 795.0 | 795.0 | 795.9 | 795.0 | 794.2 | 795.0 | 795.9 | 793.4 |
| 7.5° | 817.0 | 818.7 | 817.8 | 818.7 | 819.5 | 818.7 | 818.7 | 817.8 | 819.5 | 818.7 | 817.0 |
| 10° | 846.5 | 848.2 | 847.4 | 849.1 | 849.9 | 850.7 | 850.7 | 849.1 | 848.2 | 848.2 | 847.4 |
| 12.5° | 882.0 | 882.0 | 882.0 | 884.5 | 886.2 | 887.9 | 887.0 | 885.3 | 882.8 | 883.7 | 880.3 |
| 15° | 920.8 | 922.5 | 922.5 | 923.3 | 927.5 | 928.4 | 927.5 | 925.0 | 924.2 | 922.5 | 920.8 |
| 17.5° | 963.8 | 964.7 | 965.5 | 966.4 | 971.4 | 974.0 | 970.6 | 966.4 | 966.4 | 965.5 | 965.5 |
| 20° | 1008.6 | 1007.7 | 1009.4 | 1011.1 | 1014.5 | 1017.0 | 1016.2 | 1011.9 | 1008.6 | 1011.1 | 1010.3 |
| 22.5° | 1049.9 | 1050.8 | 1051.6 | 1054.1 | 1060.1 | 1060.9 | 1058.4 | 1055.0 | 1050.8 | 1051.6 | 1051.6 |
| 25° | 1088.7 | 1089.6 | 1091.3 | 1094.7 | 1101.4 | 1105.6 | 1102.3 | 1097.2 | 1091.3 | 1091.3 | 1092.1 |
| 27.5° | 1128.4 | 1129.3 | 1130.1 | 1136.0 | 1144.5 | 1149.5 | 1147.0 | 1138.5 | 1131.8 | 1130.1 | 1127.6 |
| 30° | 1172.3 | 1172.3 | 1174.0 | 1181.6 | 1192.6 | 1198.5 | 1195.1 | 1185.0 | 1174.8 | 1173.1 | 1173.1 |
| 32.5° | 1228.0 | 1224.6 | 1227.2 | 1237.3 | 1249.1 | 1255.9 | 1253.3 | 1241.5 | 1228.9 | 1226.3 | 1226.3 |
| 35° | 1294.7 | 1293.0 | 1294.7 | 1306.5 | 1320.8 | 1331.0 | 1325.1 | 1314.1 | 1300.6 | 1298.1 | 1296.4 |
| 37.5° | 1374.0 | 1374.9 | 1379.9 | 1393.4 | 1412.8 | 1425.5 | 1419.6 | 1401.9 | 1385.8 | 1385.8 | 1385.8 |
| 40° | 1474.5 | 1476.1 | 1486.3 | 1506.5 | 1534.4 | 1545.3 | 1538.6 | 1516.7 | 1498.1 | 1491.3 | 1493.0 |
| 42.5° | 1611.2 | 1610.3 | 1626.4 | 1651.7 | 1684.6 | 1700.6 | 1689.7 | 1666.0 | 1639.0 | 1628.1 | 1628.9 |
| 45° | 1772.4 | 1784.2 | 1801.1 | 1833.1 | 1874.5 | 1902.4 | 1882.9 | 1856.8 | 1816.3 | 1800.2 | 1799.4 |
| 47.5° | 1967.3 | 1980.0 | 2001.1 | 2054.3 | 2104.1 | 2137.8 | 2122.6 | 2079.6 | 2021.4 | 1998.6 | 1990.1 |
| 50° | 2189.3 | 2205.3 | 2232.4 | 2300.7 | 2371.6 | 2409.6 | 2382.6 | 2326.0 | 2263.6 | 2229.0 | 2220.5 |
| 52.5° | 2439.1 | 2444.2 | 2484.7 | 2567.4 | 2655.2 | 2701.6 | 2671.2 | 2603.7 | 2523.5 | 2491.5 | 2467.8 |
| 55° | 2716.0 | 2720.2 | 2766.6 | 2860.3 | 2959.9 | 3014.7 | 2975.9 | 2890.7 | 2816.4 | 2760.7 | 2765.8 |
| 57.5° | 2972.5 | 2985.2 | 3053.6 | 3163.3 | 3280.6 | 3347.3 | 3305.1 | 3214.8 | 3137.1 | 3073.8 | 3081.4 |
| 60° | 3246.8 | 3260.3 | 3332.1 | 3462.9 | 3621.6 | 3710.2 | 3655.3 | 3558.3 | 3478.1 | 3418.2 | 3410.6 |
| 62.5° | 3538.0 | 3545.6 | 3624.1 | 3741.4 | 3944.0 | 4086.6 | 4034.3 | 3927.1 | 3833.4 | 3774.3 | 3768.4 |
| 65° | 3807.2 | 3817.4 | 3884.0 | 4012.3 | 4220.8 | 4429.3 | 4399.7 | 4251.2 | 4124.6 | 4039.3 | 4027.5 |
| 67.5° | 3905.1 | 3911.9 | 4005.6 | 4185.4 | 4425.0 | 4631.0 | 4639.4 | 4405.6 | 4221.6 | 4117.8 | 4115.3 |
| 70° | 3790.4 | 3795.4 | 3915.3 | 4128.8 | 4434.3 | 4605.7 | 4575.3 | 4340.6 | 4114.5 | 3987.0 | 3974.4 |
| 72.5° | 3532.9 | 3533.8 | 3643.5 | 3825.0 | 4131.3 | 4271.4 | 4142.3 | 4013.2 | 3779.4 | 3684.0 | 3658.7 |
| 75° | 3064.5 | 3065.4 | 3141.3 | 3262.0 | 3480.6 | 3609.7 | 3462.9 | 3344.7 | 3207.2 | 3150.6 | 3121.1 |
| 77.5° | 2107.4 | 2120.1 | 2198.6 | 2337.9 | 2577.5 | 2720.2 | 2527.8 | 2313.4 | 2229.8 | 2181.7 | 2153.0 |
| 80° | 1014.5 | 1033.9 | 1124.2 | 1261.8 | 1512.4 | 1740.3 | 1503.1 | 1239.0 | 1076.1 | 943.6 | 967.2 |
| 82.5° | 270.9 | 274.3 | 351.9 | 505.6 | 704.7 | 827.1 | 671.8 | 470.1 | 296.2 | 199.2 | 182.3 |
| 85° | 71.7 | 76.0 | 106.3 | 146.0 | 222.0 | 282.7 | 216.1 | 137.6 | 104.7 | 77.6 | 70.9 |
| 87.5° | 19.4 | 22.8 | 37.1 | 44.7 | 55.7 | 44.7 | 55.7 | 48.1 | 46.4 | 24.5 | 17.7 |
| 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)