

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: P382992

Luminaire Tested: **GLEON-SA3C-735-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21187.1 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

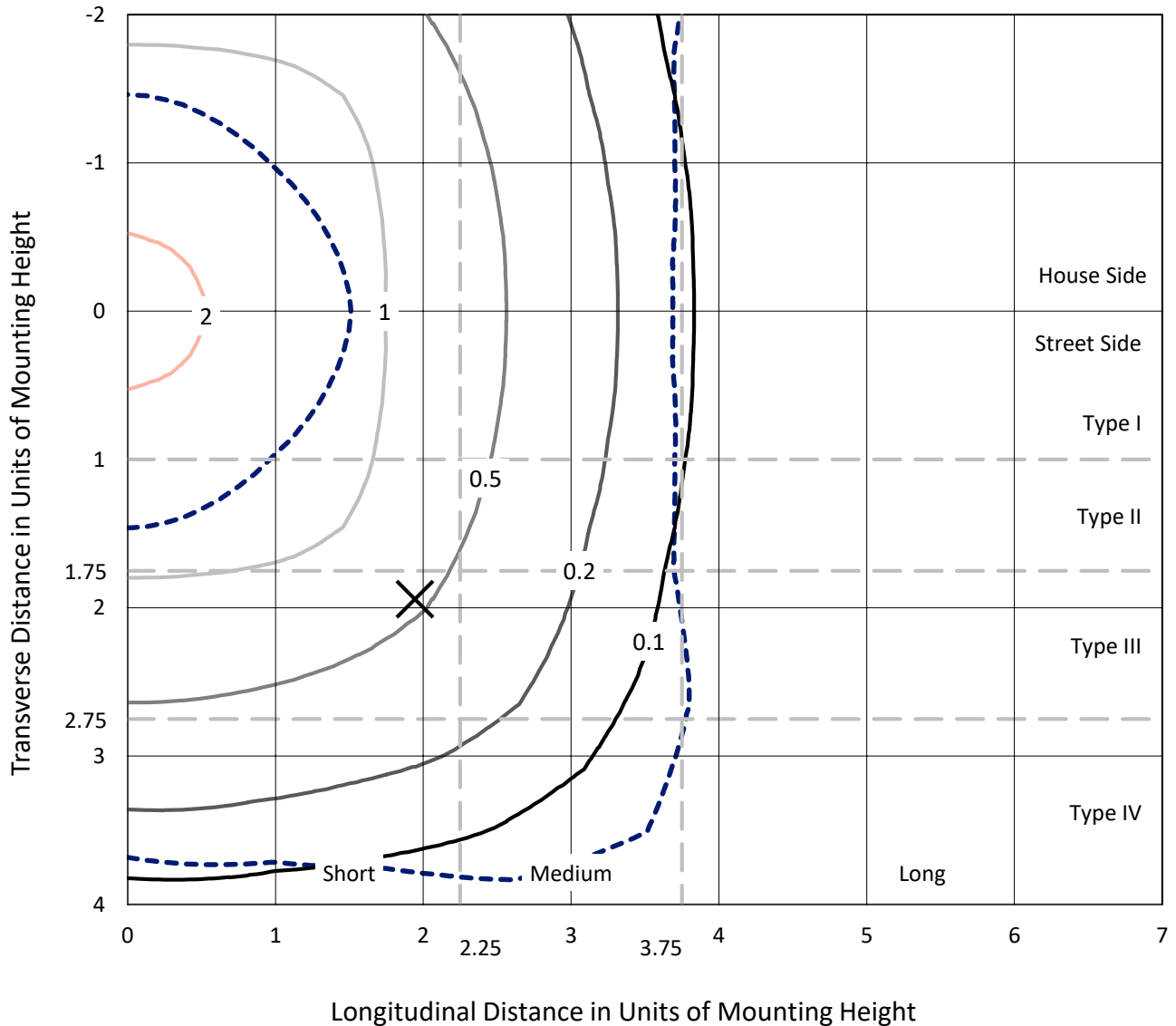
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

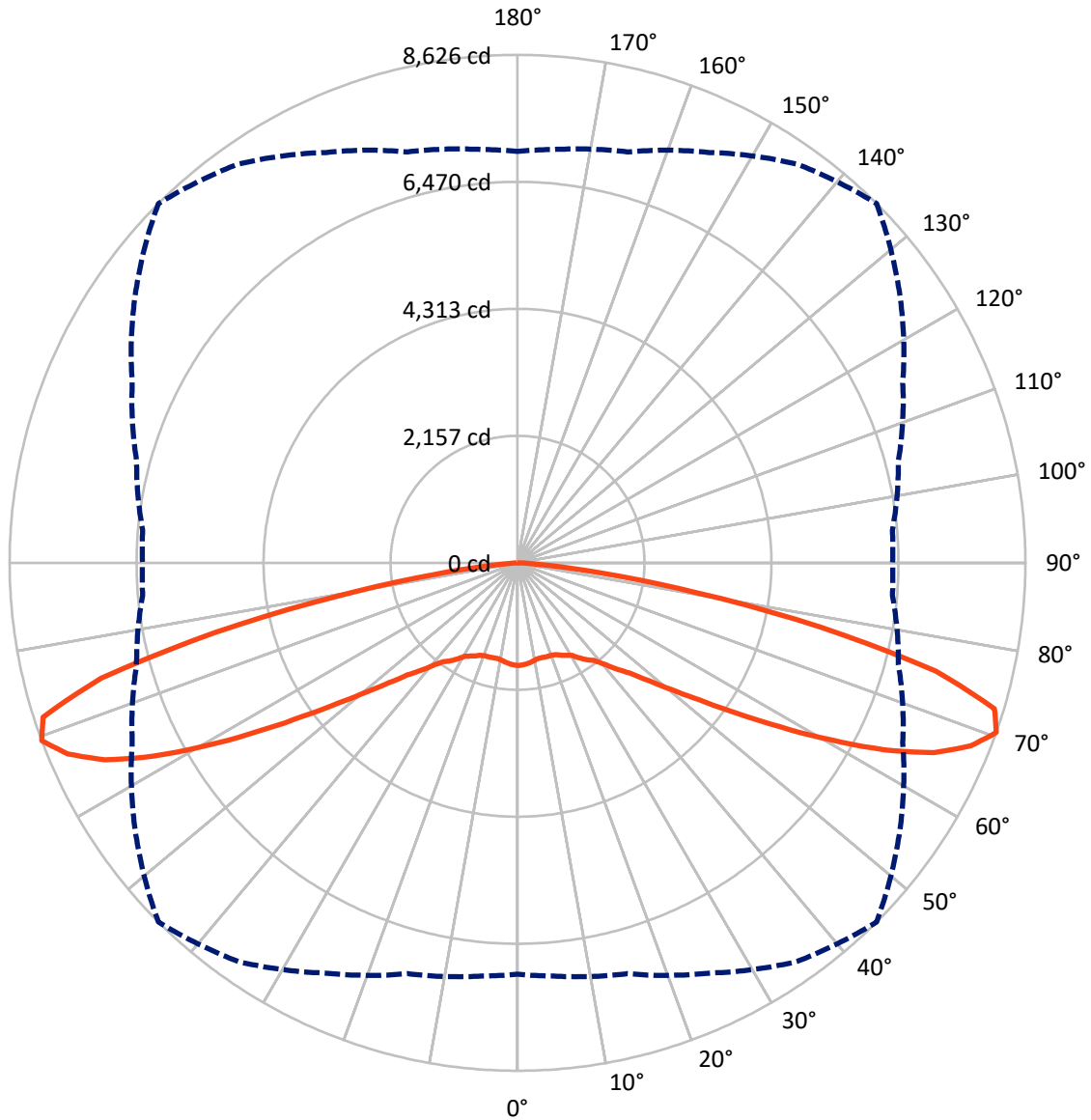
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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 | 10593.6 | 0.0 | 10593.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10593.6 | 0.0 | 10593.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21187.1 | 0.0 | 21187.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 162.7 | 0.8 |
| 10°-20° | 475.4 | 2.2 |
| 20°-30° | 810.5 | 3.8 |
| 30°-40° | 1266.5 | 6.0 |
| 40°-50° | 2146.3 | 10.1 |
| 50°-60° | 3914.0 | 18.5 |
| 60°-70° | 6738.3 | 31.8 |
| 70°-80° | 5281.7 | 24.9 |
| 80°-90° | 391.6 | 1.8 |
| 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° | 21187.1 | 100.0 |
| 0°-180° | 21187.1 | 100.0 |

Coefficient of Utilization

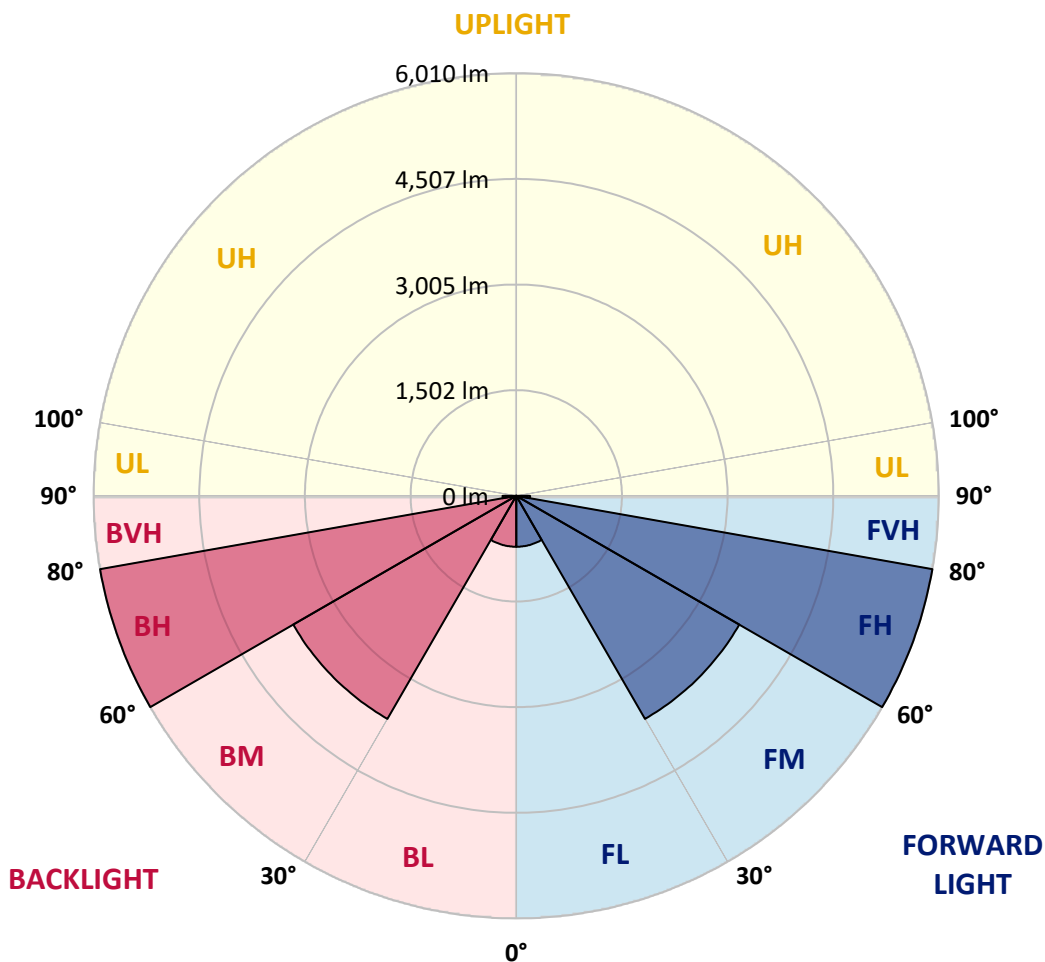


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 724.3 | 3.4 | | | |
| FM (30°-60°) | 3663.4 | 17.3 | | | |
| FH (60°-80°) | 6010.0 | 28.4 | | | G3/7500 |
| FVH (80°-90°) | 195.8 | 0.9 | | | G2/225 |
| BL (0°-30°) | 724.3 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 3663.4 | 17.3 | B3/5000 | | |
| BH (60°-80°) | 6010.0 | 28.4 | B5 | | G3/7500 |
| BVH (80°-90°) | 195.8 | 0.9 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1743.7 | 1743.7 | 1743.7 | 1743.7 | 1743.7 | 1743.7 | 1743.7 | 1743.7 | 1743.7 | 1743.7 | 1743.7 |
| 2.5° | 1736.0 | 1738.1 | 1736.0 | 1737.4 | 1733.9 | 1735.3 | 1735.3 | 1735.3 | 1734.6 | 1735.3 | 1733.9 |
| 5° | 1720.6 | 1722.0 | 1719.2 | 1720.6 | 1718.4 | 1720.6 | 1721.3 | 1720.6 | 1719.2 | 1719.9 | 1717.0 |
| 7.5° | 1697.5 | 1698.9 | 1696.7 | 1698.9 | 1696.1 | 1699.5 | 1698.9 | 1696.7 | 1694.7 | 1694.7 | 1691.9 |
| 10° | 1684.8 | 1685.5 | 1680.0 | 1677.8 | 1671.5 | 1672.9 | 1675.0 | 1677.2 | 1679.2 | 1683.4 | 1682.7 |
| 12.5° | 1685.5 | 1685.5 | 1677.2 | 1668.0 | 1658.9 | 1661.0 | 1664.5 | 1672.2 | 1680.6 | 1688.3 | 1689.1 |
| 15° | 1692.5 | 1691.9 | 1679.2 | 1664.5 | 1658.2 | 1664.5 | 1666.6 | 1671.5 | 1684.8 | 1698.1 | 1698.9 |
| 17.5° | 1697.5 | 1697.5 | 1677.8 | 1661.0 | 1660.3 | 1670.1 | 1669.4 | 1671.5 | 1686.2 | 1705.8 | 1706.6 |
| 20° | 1706.6 | 1706.6 | 1681.4 | 1663.1 | 1663.1 | 1673.6 | 1674.4 | 1677.8 | 1692.5 | 1714.2 | 1717.8 |
| 22.5° | 1726.9 | 1727.6 | 1700.9 | 1686.2 | 1687.6 | 1693.9 | 1696.1 | 1701.7 | 1715.0 | 1738.8 | 1743.0 |
| 25° | 1755.6 | 1757.0 | 1729.7 | 1721.3 | 1726.2 | 1738.1 | 1736.7 | 1740.9 | 1755.6 | 1778.8 | 1783.0 |
| 27.5° | 1795.6 | 1792.0 | 1766.9 | 1763.3 | 1768.3 | 1776.6 | 1775.9 | 1776.6 | 1788.6 | 1809.6 | 1814.5 |
| 30° | 1847.4 | 1846.0 | 1827.8 | 1829.9 | 1827.8 | 1825.0 | 1825.7 | 1831.3 | 1837.6 | 1854.4 | 1859.4 |
| 32.5° | 1897.9 | 1899.3 | 1888.1 | 1898.6 | 1914.1 | 1924.5 | 1908.4 | 1893.0 | 1886.0 | 1895.0 | 1899.3 |
| 35° | 1989.0 | 1992.5 | 1975.0 | 1968.0 | 1989.0 | 2019.9 | 1974.3 | 1949.1 | 1963.1 | 1975.0 | 1978.5 |
| 37.5° | 2143.9 | 2146.0 | 2116.6 | 2088.5 | 2073.1 | 2102.5 | 2057.0 | 2059.1 | 2108.2 | 2130.5 | 2129.9 |
| 40° | 2320.5 | 2321.2 | 2301.6 | 2277.1 | 2250.4 | 2257.4 | 2239.2 | 2244.8 | 2277.1 | 2297.4 | 2303.0 |
| 42.5° | 2530.7 | 2528.7 | 2497.9 | 2462.7 | 2455.1 | 2462.1 | 2431.2 | 2427.1 | 2464.1 | 2500.6 | 2501.3 |
| 45° | 2803.4 | 2798.5 | 2758.5 | 2720.0 | 2682.9 | 2667.4 | 2659.7 | 2680.1 | 2731.2 | 2764.8 | 2765.6 |
| 47.5° | 3097.0 | 3083.7 | 3062.6 | 3031.8 | 2999.6 | 2984.2 | 2971.5 | 2981.4 | 3018.5 | 3031.8 | 3033.2 |
| 50° | 3399.1 | 3401.9 | 3406.1 | 3394.2 | 3382.3 | 3377.4 | 3344.4 | 3325.5 | 3336.7 | 3312.2 | 3308.7 |
| 52.5° | 3757.2 | 3762.8 | 3803.5 | 3837.8 | 3858.2 | 3868.6 | 3806.3 | 3741.1 | 3704.7 | 3657.0 | 3643.0 |
| 55° | 4179.9 | 4189.0 | 4248.5 | 4343.8 | 4442.0 | 4493.8 | 4381.0 | 4259.0 | 4146.2 | 4057.2 | 4028.5 |
| 57.5° | 4650.8 | 4667.0 | 4748.9 | 4931.9 | 5133.0 | 5255.6 | 5065.0 | 4843.6 | 4625.6 | 4497.3 | 4474.9 |
| 60° | 5203.1 | 5218.5 | 5332.0 | 5594.1 | 5920.1 | 6104.3 | 5815.7 | 5453.3 | 5182.0 | 5059.4 | 5018.1 |
| 62.5° | 5860.5 | 5861.9 | 6001.3 | 6307.6 | 6737.9 | 6994.4 | 6603.4 | 6119.1 | 5839.4 | 5691.6 | 5651.6 |
| 65° | 6567.6 | 6571.1 | 6715.5 | 7046.3 | 7491.3 | 7770.2 | 7328.8 | 6824.1 | 6482.1 | 6264.2 | 6233.4 |
| 67.5° | 7067.3 | 7082.0 | 7234.1 | 7632.2 | 8048.5 | 8300.1 | 7843.2 | 7272.7 | 6877.4 | 6617.3 | 6591.4 |
| 70° | 6987.4 | 7044.9 | 7223.6 | 7688.2 | 8267.2 | 8626.0 | 7926.5 | 7219.4 | 6698.0 | 6391.0 | 6369.3 |
| 72.5° | 6093.8 | 6203.9 | 6442.2 | 7051.9 | 7977.7 | 8471.8 | 7471.7 | 6466.0 | 5875.9 | 5614.4 | 5575.2 |
| 75° | 4149.7 | 4328.4 | 4687.9 | 5567.5 | 6815.8 | 7335.0 | 6290.1 | 5155.4 | 4600.4 | 4238.7 | 4212.1 |
| 77.5° | 1850.2 | 1890.9 | 2346.5 | 3359.2 | 4703.4 | 5267.5 | 4570.2 | 3372.5 | 2531.5 | 2019.1 | 1911.2 |
| 80° | 515.8 | 522.1 | 696.6 | 1251.0 | 2354.1 | 3095.0 | 2527.3 | 1314.0 | 738.7 | 520.7 | 490.6 |
| 82.5° | 164.0 | 178.0 | 217.2 | 324.5 | 791.3 | 1412.2 | 812.3 | 350.4 | 249.5 | 199.1 | 179.4 |
| 85° | 79.9 | 79.2 | 110.0 | 131.7 | 201.9 | 312.5 | 215.2 | 162.6 | 142.2 | 94.6 | 85.5 |
| 87.5° | 33.6 | 34.4 | 51.1 | 46.3 | 58.9 | 50.5 | 69.4 | 72.8 | 76.4 | 42.0 | 36.4 |
| 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)