

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: P529525

Luminaire Tested: **GALN-SA4D-722-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-722-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11735 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

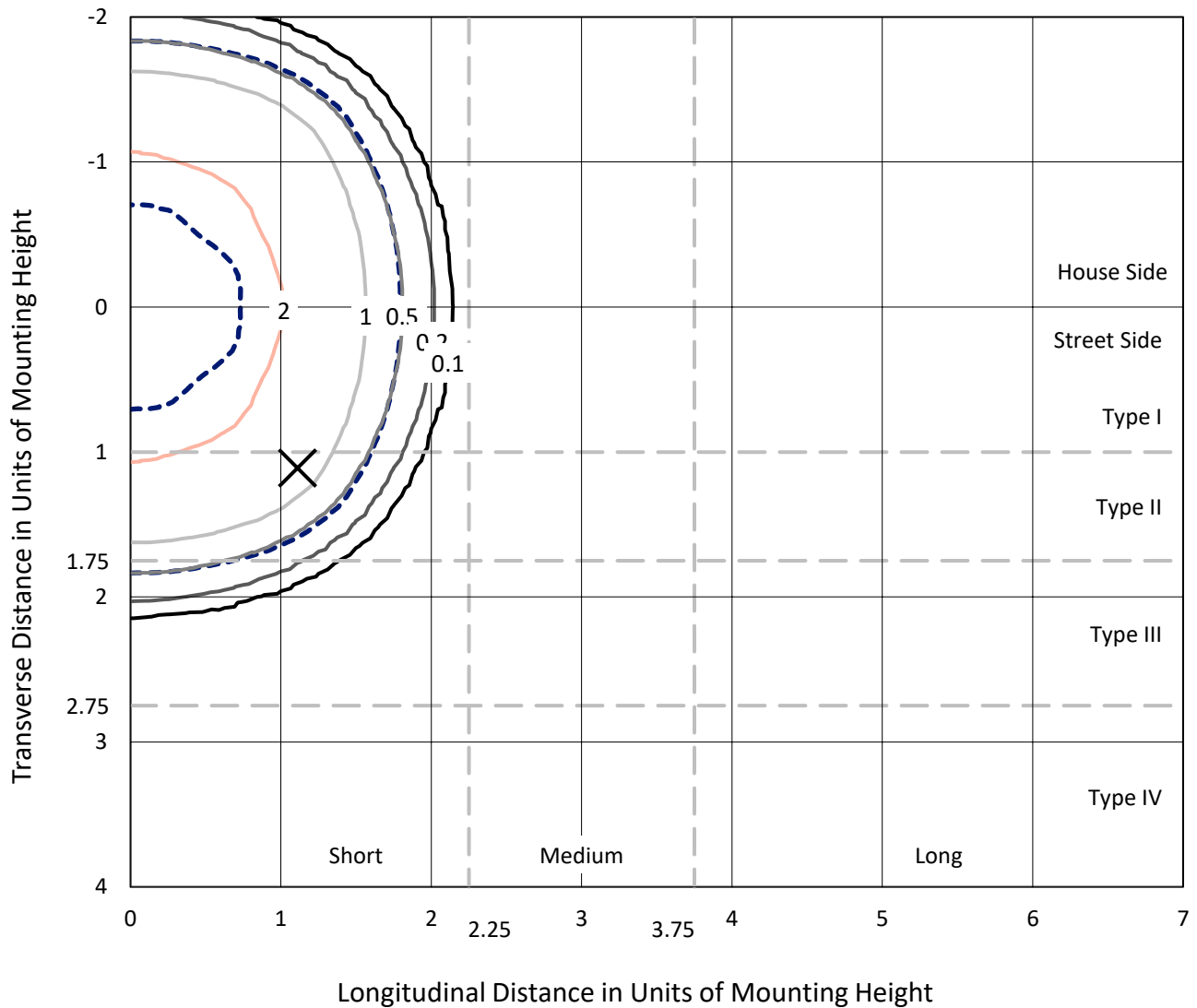
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

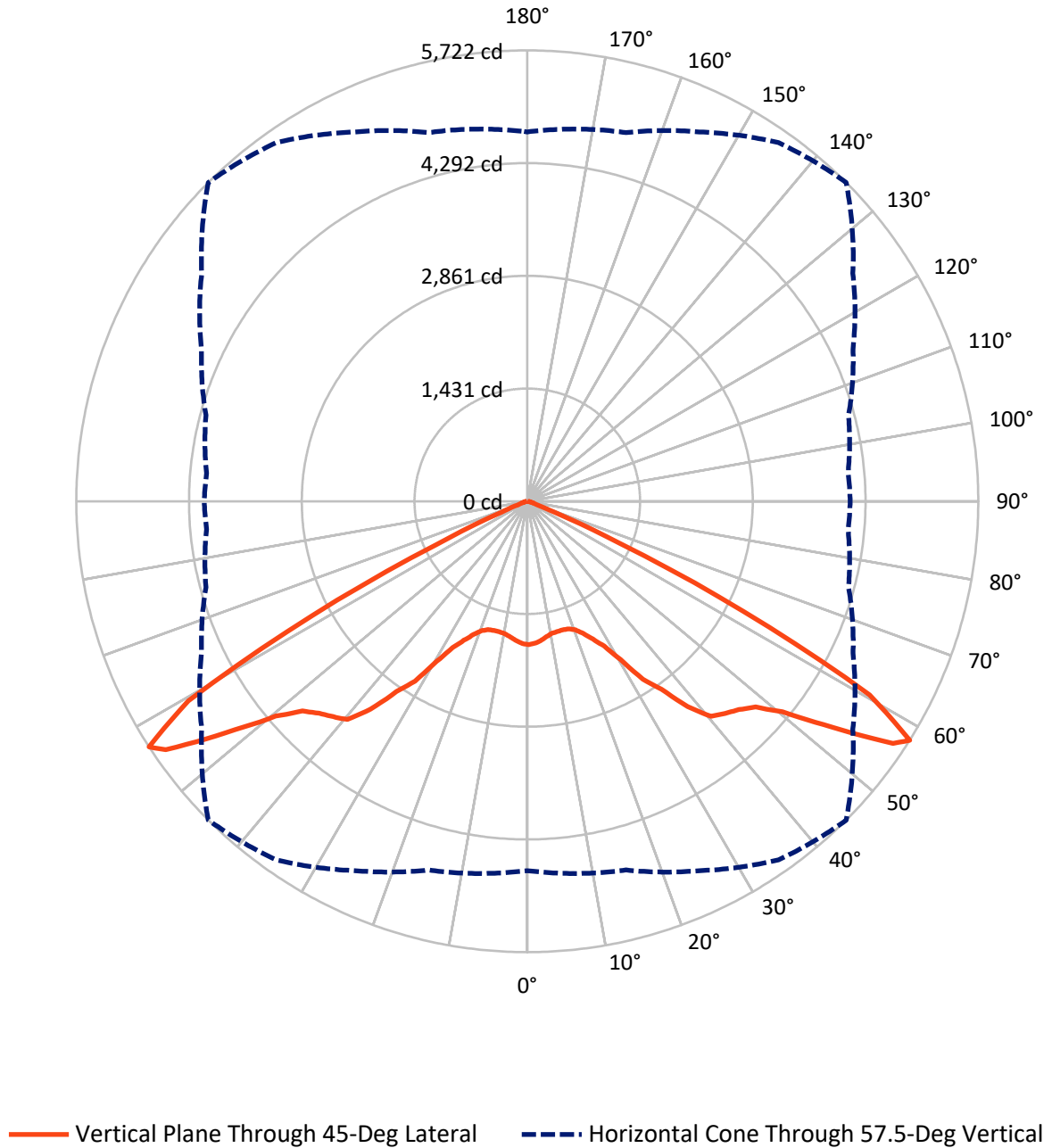
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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 | 5867.5 | 0.0 | 5867.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5867.5 | 0.0 | 5867.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11735.0 | 0.0 | 11735.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 167.3 | 1.4 |
| 10°-20° | 483.5 | 4.1 |
| 20°-30° | 892.4 | 7.6 |
| 30°-40° | 1755.1 | 15.0 |
| 40°-50° | 2858.6 | 24.4 |
| 50°-60° | 4076.7 | 34.7 |
| 60°-70° | 1411.5 | 12.0 |
| 70°-80° | 75.7 | 0.6 |
| 80°-90° | 14.2 | 0.1 |
| 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° | 11735.0 | 100.0 |
| 0°-180° | 11735.0 | 100.0 |

Coefficient of Utilization

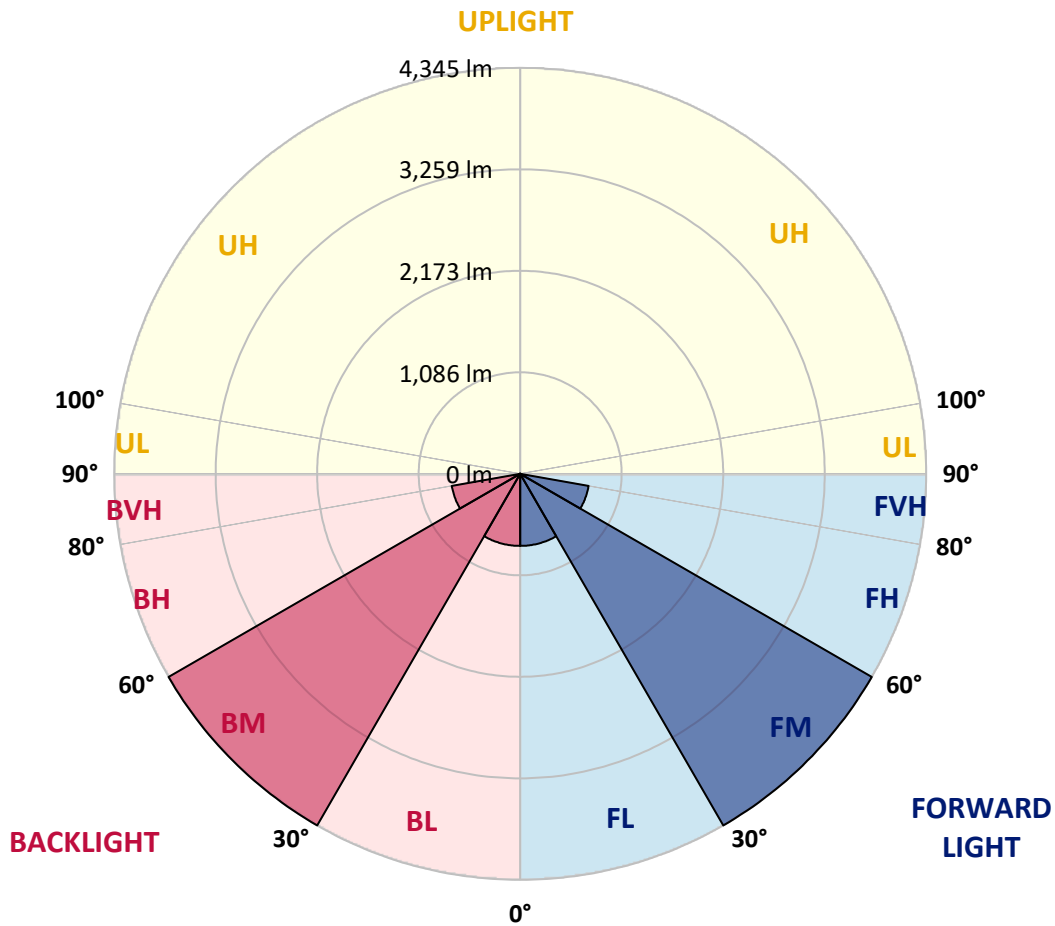


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 771.6 | 6.6 | | | |
| FM (30°-60°) | 4345.2 | 37.0 | | | |
| FH (60°-80°) | 743.6 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 7.1 | 0.1 | | | G0/10 |
| BL (0°-30°) | 771.6 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 4345.2 | 37.0 | B3/5000 | | |
| BH (60°-80°) | 743.6 | 6.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 7.1 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1820.2 | 1820.2 | 1820.2 | 1820.2 | 1820.2 | 1820.2 | 1820.2 | 1820.2 | 1820.2 | 1820.2 | 1820.2 |
| 2.5° | 1815.3 | 1825.1 | 1812.9 | 1808.0 | 1805.5 | 1805.5 | 1798.2 | 1798.2 | 1795.8 | 1798.2 | 1788.4 |
| 5° | 1786.0 | 1795.8 | 1795.8 | 1793.3 | 1778.6 | 1776.2 | 1768.8 | 1764.0 | 1766.4 | 1756.6 | 1764.0 |
| 7.5° | 1756.6 | 1764.0 | 1754.2 | 1751.7 | 1746.8 | 1737.0 | 1734.6 | 1712.6 | 1715.0 | 1715.0 | 1719.9 |
| 10° | 1751.7 | 1749.3 | 1734.6 | 1722.4 | 1707.7 | 1705.2 | 1697.9 | 1693.0 | 1693.0 | 1690.6 | 1697.9 |
| 12.5° | 1751.7 | 1739.5 | 1737.0 | 1710.1 | 1685.7 | 1695.4 | 1675.9 | 1663.6 | 1680.8 | 1685.7 | 1695.4 |
| 15° | 1749.3 | 1761.5 | 1719.9 | 1707.7 | 1690.6 | 1693.0 | 1675.9 | 1663.6 | 1673.4 | 1678.3 | 1685.7 |
| 17.5° | 1764.0 | 1756.6 | 1744.4 | 1719.9 | 1712.6 | 1702.8 | 1680.8 | 1671.0 | 1671.0 | 1683.2 | 1685.7 |
| 20° | 1803.1 | 1783.5 | 1759.1 | 1746.8 | 1754.2 | 1741.9 | 1715.0 | 1678.3 | 1688.1 | 1697.9 | 1705.2 |
| 22.5° | 1839.8 | 1825.1 | 1808.0 | 1800.6 | 1842.2 | 1822.7 | 1776.2 | 1734.6 | 1719.9 | 1737.0 | 1749.3 |
| 25° | 1910.7 | 1910.7 | 1878.9 | 1888.7 | 1935.2 | 1937.7 | 1883.8 | 1810.4 | 1800.6 | 1808.0 | 1812.9 |
| 27.5° | 2055.1 | 2062.4 | 2035.5 | 2045.3 | 2064.9 | 2082.0 | 2035.5 | 1974.4 | 1952.3 | 1949.9 | 1957.2 |
| 30° | 2211.7 | 2226.3 | 2223.9 | 2265.5 | 2321.8 | 2331.5 | 2263.0 | 2162.7 | 2096.7 | 2084.4 | 2094.2 |
| 32.5° | 2417.2 | 2424.5 | 2419.6 | 2468.6 | 2620.2 | 2691.2 | 2512.6 | 2370.7 | 2282.6 | 2304.6 | 2282.6 |
| 35° | 2803.7 | 2796.4 | 2742.6 | 2752.4 | 2877.1 | 2928.5 | 2757.2 | 2666.7 | 2625.1 | 2669.2 | 2659.4 |
| 37.5° | 3136.5 | 3109.5 | 3065.5 | 3129.1 | 3258.8 | 3305.3 | 3126.7 | 2967.6 | 2891.8 | 2965.2 | 2997.0 |
| 40° | 3417.8 | 3349.3 | 3288.1 | 3351.8 | 3525.5 | 3589.1 | 3327.3 | 3197.6 | 3168.3 | 3222.1 | 3290.6 |
| 42.5° | 3655.1 | 3611.1 | 3530.3 | 3535.2 | 3650.2 | 3679.6 | 3469.2 | 3393.3 | 3364.0 | 3449.6 | 3483.9 |
| 45° | 3823.9 | 3782.3 | 3706.5 | 3701.6 | 3789.7 | 3770.1 | 3581.7 | 3530.3 | 3547.5 | 3603.7 | 3620.9 |
| 47.5° | 3909.6 | 3931.6 | 3887.5 | 3899.8 | 3946.3 | 3899.8 | 3750.5 | 3750.5 | 3711.4 | 3745.6 | 3728.5 |
| 50° | 4156.7 | 4088.2 | 4144.4 | 4144.4 | 4193.4 | 4198.3 | 4049.0 | 3995.2 | 3890.0 | 3831.3 | 3831.3 |
| 52.5° | 4445.4 | 4450.2 | 4472.3 | 4553.0 | 4636.2 | 4707.1 | 4494.3 | 4264.3 | 4088.2 | 4012.3 | 4002.5 |
| 55° | 4682.7 | 4731.6 | 4819.7 | 4971.4 | 5211.1 | 5309.0 | 4942.0 | 4531.0 | 4315.7 | 4198.3 | 4173.8 |
| 56° | 4812.3 | 4765.8 | 4917.5 | 5125.5 | 5438.6 | 5565.9 | 5015.4 | 4584.8 | 4347.5 | 4215.4 | 4212.9 |
| 57.5° | 4687.6 | 4738.9 | 4844.1 | 5172.0 | 5556.1 | 5722.4 | 5042.3 | 4560.3 | 4220.3 | 4085.7 | 4097.9 |
| 60° | 3701.6 | 3750.5 | 3892.4 | 4259.4 | 4861.3 | 4990.9 | 4266.8 | 3760.3 | 3457.0 | 3263.7 | 3266.1 |
| 62.5° | 2094.2 | 2130.9 | 2241.0 | 2581.1 | 2955.4 | 3080.2 | 2659.4 | 2321.8 | 2111.4 | 2003.7 | 1969.5 |
| 65° | 770.7 | 756.0 | 773.1 | 946.8 | 1176.8 | 1282.0 | 1105.8 | 934.6 | 824.5 | 785.3 | 770.7 |
| 67.5° | 288.7 | 266.7 | 249.5 | 266.7 | 335.2 | 354.7 | 325.4 | 271.6 | 254.4 | 261.8 | 266.7 |
| 70° | 178.6 | 168.8 | 134.6 | 127.2 | 124.8 | 122.3 | 129.7 | 137.0 | 156.6 | 183.5 | 188.4 |
| 72.5° | 124.8 | 117.4 | 95.4 | 90.5 | 85.6 | 83.2 | 95.4 | 105.2 | 122.3 | 141.9 | 144.3 |
| 75° | 48.9 | 51.4 | 48.9 | 53.8 | 56.3 | 58.7 | 68.5 | 75.8 | 83.2 | 83.2 | 80.7 |
| 77.5° | 9.8 | 9.8 | 14.7 | 19.6 | 24.5 | 31.8 | 46.5 | 53.8 | 56.3 | 53.8 | 46.5 |
| 80° | 0.0 | 0.0 | 4.9 | 9.8 | 19.6 | 26.9 | 41.6 | 46.5 | 51.4 | 46.5 | 36.7 |
| 82.5° | 0.0 | 0.0 | 4.9 | 12.2 | 19.6 | 24.5 | 39.1 | 48.9 | 56.3 | 51.4 | 39.1 |
| 85° | 0.0 | 0.0 | 4.9 | 9.8 | 14.7 | 17.1 | 17.1 | 12.2 | 12.2 | 7.3 | 4.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)