

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: P529473

Luminaire Tested: **GALN-SA4C-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529473
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-SA4C-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 10665 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

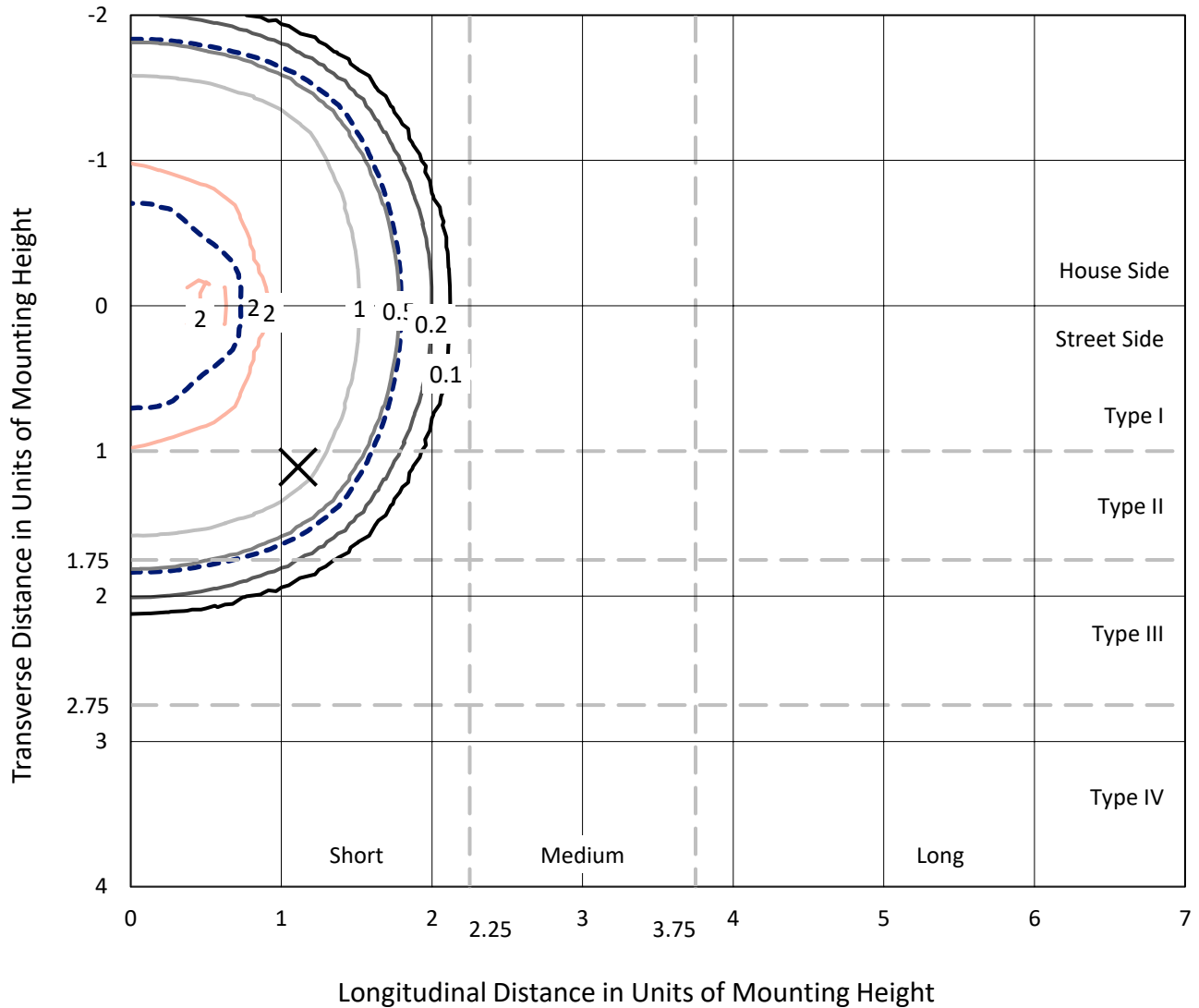
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529473
 CATALOG NUMBER: GALN-SA4C-827-U-5WQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

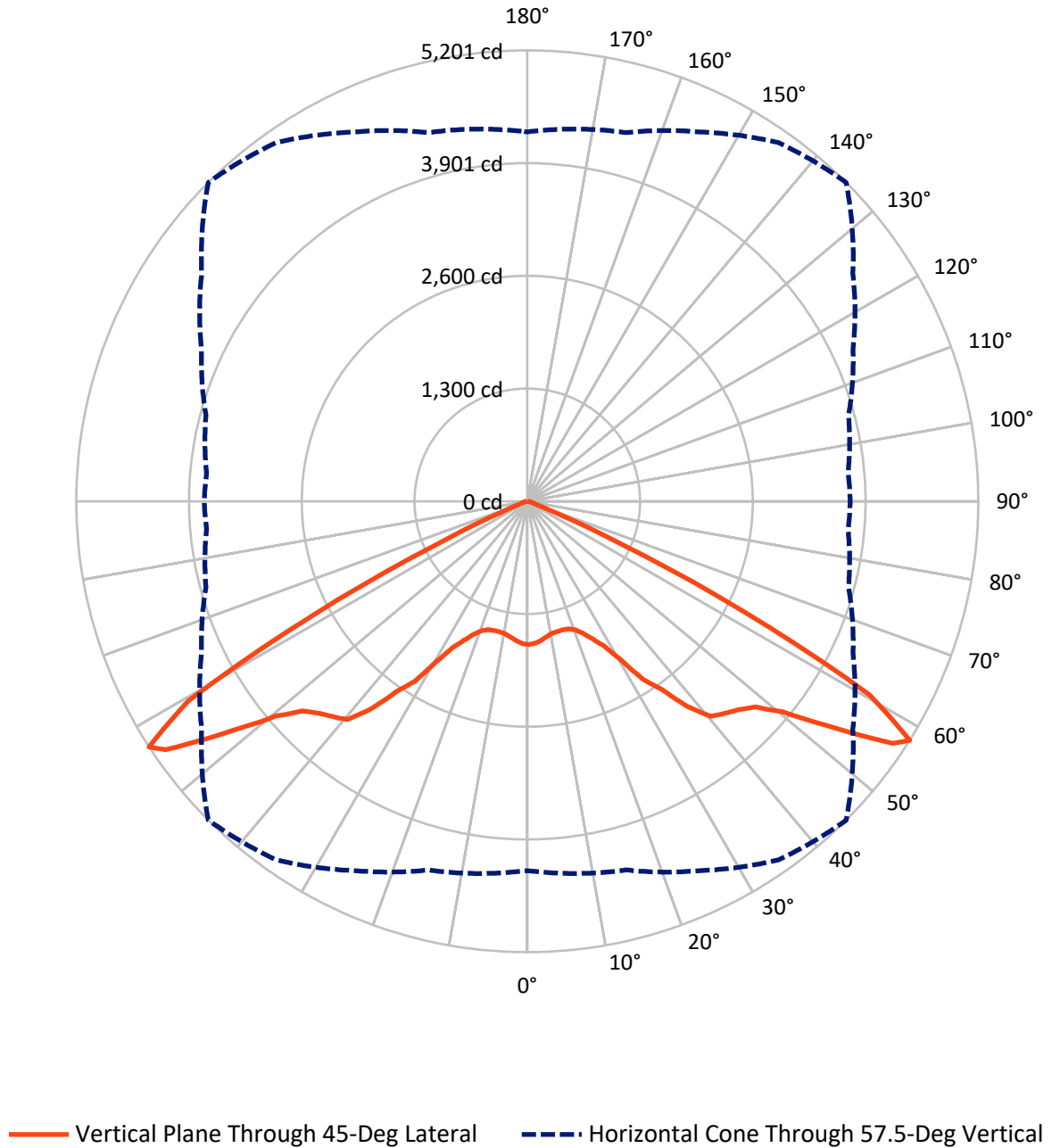
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

REPORT NUMBER: P529473
CATALOG NUMBER: GALN-SA4C-827-U-5WQ-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P529473
 CATALOG NUMBER: GALN-SA4C-827-U-5WQ-GRSBK

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5332.5 | 0.0 | 5332.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5332.5 | 0.0 | 5332.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10665.0 | 0.0 | 10665.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 152.0 | 1.4 |
| 10°-20° | 439.4 | 4.1 |
| 20°-30° | 811.1 | 7.6 |
| 30°-40° | 1595.1 | 15.0 |
| 40°-50° | 2597.9 | 24.4 |
| 50°-60° | 3705.0 | 34.7 |
| 60°-70° | 1282.8 | 12.0 |
| 70°-80° | 68.8 | 0.6 |
| 80°-90° | 12.9 | 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° | 10665.0 | 100.0 |
| 0°-180° | 10665.0 | 100.0 |

Coefficient of Utilization

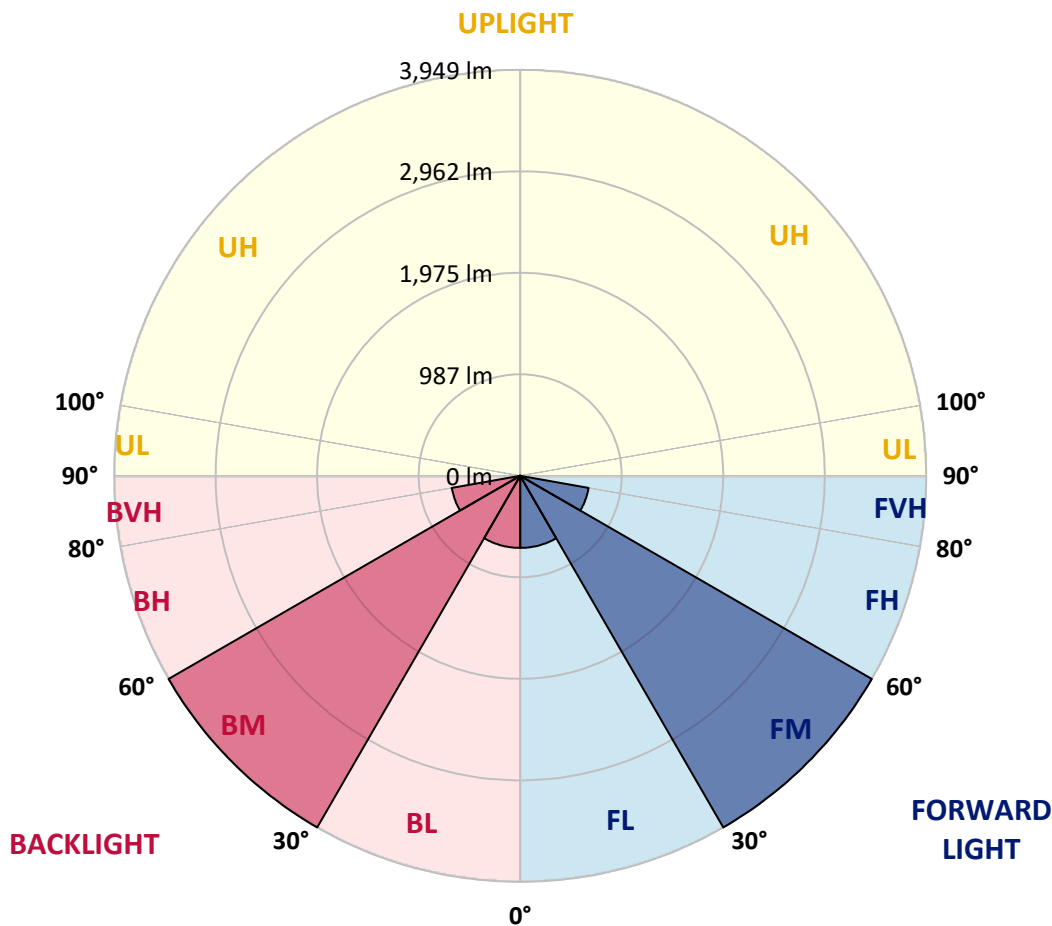


REPORT NUMBER: P529473
 CATALOG NUMBER: GALN-SA4C-827-U-5WQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 701.2 | 6.6 | | | |
| FM (30°-60°) | 3949.0 | 37.0 | | | |
| FH (60°-80°) | 675.8 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 6.5 | 0.1 | | | G0/10 |
| BL (0°-30°) | 701.2 | 6.6 | B2/1000 | | |
| BM (30°-60°) | 3949.0 | 37.0 | B3/5000 | | |
| BH (60°-80°) | 675.8 | 6.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 6.5 | 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





REPORT NUMBER: P529473

CATALOG NUMBER: GALN-SA4C-827-U-5WQ-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1654.3 | 1654.3 | 1654.3 | 1654.3 | 1654.3 | 1654.3 | 1654.3 | 1654.3 | 1654.3 | 1654.3 | 1654.3 |
| 2.5° | 1649.8 | 1658.7 | 1647.6 | 1643.1 | 1640.9 | 1640.9 | 1634.2 | 1634.2 | 1632.0 | 1634.2 | 1625.3 |
| 5° | 1623.1 | 1632.0 | 1632.0 | 1629.8 | 1616.5 | 1614.2 | 1607.6 | 1603.1 | 1605.3 | 1596.4 | 1603.1 |
| 7.5° | 1596.4 | 1603.1 | 1594.2 | 1592.0 | 1587.5 | 1578.7 | 1576.4 | 1556.4 | 1558.6 | 1558.6 | 1563.1 |
| 10° | 1592.0 | 1589.8 | 1576.4 | 1565.3 | 1552.0 | 1549.8 | 1543.1 | 1538.6 | 1538.6 | 1536.4 | 1543.1 |
| 12.5° | 1592.0 | 1580.9 | 1578.7 | 1554.2 | 1532.0 | 1540.9 | 1523.1 | 1512.0 | 1527.5 | 1532.0 | 1540.9 |
| 15° | 1589.8 | 1600.9 | 1563.1 | 1552.0 | 1536.4 | 1538.6 | 1523.1 | 1512.0 | 1520.8 | 1525.3 | 1532.0 |
| 17.5° | 1603.1 | 1596.4 | 1585.3 | 1563.1 | 1556.4 | 1547.5 | 1527.5 | 1518.6 | 1518.6 | 1529.7 | 1532.0 |
| 20° | 1638.7 | 1620.9 | 1598.7 | 1587.5 | 1594.2 | 1583.1 | 1558.6 | 1525.3 | 1534.2 | 1543.1 | 1549.8 |
| 22.5° | 1672.0 | 1658.7 | 1643.1 | 1636.5 | 1674.3 | 1656.5 | 1614.2 | 1576.4 | 1563.1 | 1578.7 | 1589.8 |
| 25° | 1736.5 | 1736.5 | 1707.6 | 1716.5 | 1758.8 | 1761.0 | 1712.1 | 1645.4 | 1636.5 | 1643.1 | 1647.6 |
| 27.5° | 1867.7 | 1874.4 | 1849.9 | 1858.8 | 1876.6 | 1892.2 | 1849.9 | 1794.3 | 1774.3 | 1772.1 | 1778.8 |
| 30° | 2010.0 | 2023.3 | 2021.1 | 2058.9 | 2110.1 | 2119.0 | 2056.7 | 1965.5 | 1905.5 | 1894.4 | 1903.3 |
| 32.5° | 2196.8 | 2203.4 | 2199.0 | 2243.5 | 2381.3 | 2445.8 | 2283.5 | 2154.5 | 2074.5 | 2094.5 | 2074.5 |
| 35° | 2548.1 | 2541.4 | 2492.5 | 2501.4 | 2614.8 | 2661.5 | 2505.8 | 2423.6 | 2385.8 | 2425.8 | 2416.9 |
| 37.5° | 2850.5 | 2826.0 | 2786.0 | 2843.8 | 2961.6 | 3003.9 | 2841.6 | 2697.1 | 2628.1 | 2694.8 | 2723.7 |
| 40° | 3106.2 | 3043.9 | 2988.3 | 3046.1 | 3204.0 | 3261.8 | 3023.9 | 2906.1 | 2879.4 | 2928.3 | 2990.6 |
| 42.5° | 3321.8 | 3281.8 | 3208.5 | 3212.9 | 3317.4 | 3344.1 | 3152.9 | 3083.9 | 3057.3 | 3135.1 | 3166.2 |
| 45° | 3475.3 | 3437.5 | 3368.5 | 3364.1 | 3444.1 | 3426.3 | 3255.1 | 3208.5 | 3224.0 | 3275.2 | 3290.7 |
| 47.5° | 3553.1 | 3573.1 | 3533.1 | 3544.2 | 3586.4 | 3544.2 | 3408.6 | 3408.6 | 3373.0 | 3404.1 | 3388.6 |
| 50° | 3777.7 | 3715.4 | 3766.5 | 3766.5 | 3811.0 | 3815.5 | 3679.8 | 3630.9 | 3535.3 | 3481.9 | 3481.9 |
| 52.5° | 4040.0 | 4044.5 | 4064.5 | 4137.9 | 4213.5 | 4277.9 | 4084.5 | 3875.5 | 3715.4 | 3646.5 | 3637.6 |
| 55° | 4255.7 | 4300.2 | 4380.2 | 4518.1 | 4736.0 | 4824.9 | 4491.4 | 4117.8 | 3922.2 | 3815.5 | 3793.2 |
| 56° | 4373.5 | 4331.3 | 4469.2 | 4658.1 | 4942.7 | 5058.4 | 4558.1 | 4166.8 | 3951.1 | 3831.0 | 3828.8 |
| 57.5° | 4260.1 | 4306.8 | 4402.4 | 4700.4 | 5049.5 | 5200.7 | 4582.5 | 4144.5 | 3835.5 | 3713.2 | 3724.3 |
| 60° | 3364.1 | 3408.6 | 3537.5 | 3871.0 | 4418.0 | 4535.9 | 3877.7 | 3417.5 | 3141.7 | 2966.1 | 2968.3 |
| 62.5° | 1903.3 | 1936.6 | 2036.7 | 2345.7 | 2685.9 | 2799.3 | 2416.9 | 2110.1 | 1918.8 | 1821.0 | 1789.9 |
| 65° | 700.4 | 687.0 | 702.6 | 860.5 | 1069.5 | 1165.1 | 1005.0 | 849.4 | 749.3 | 713.7 | 700.4 |
| 67.5° | 262.4 | 242.4 | 226.8 | 242.4 | 304.6 | 322.4 | 295.7 | 246.8 | 231.2 | 237.9 | 242.4 |
| 70° | 162.3 | 153.4 | 122.3 | 115.6 | 113.4 | 111.2 | 117.8 | 124.5 | 142.3 | 166.8 | 171.2 |
| 72.5° | 113.4 | 106.7 | 86.7 | 82.3 | 77.8 | 75.6 | 86.7 | 95.6 | 111.2 | 129.0 | 131.2 |
| 75° | 44.5 | 46.7 | 44.5 | 48.9 | 51.1 | 53.4 | 62.3 | 68.9 | 75.6 | 75.6 | 73.4 |
| 77.5° | 8.9 | 8.9 | 13.3 | 17.8 | 22.2 | 28.9 | 42.2 | 48.9 | 51.1 | 48.9 | 42.2 |
| 80° | 0.0 | 0.0 | 4.4 | 8.9 | 17.8 | 24.5 | 37.8 | 42.2 | 46.7 | 42.2 | 33.4 |
| 82.5° | 0.0 | 0.0 | 4.4 | 11.1 | 17.8 | 22.2 | 35.6 | 44.5 | 51.1 | 46.7 | 35.6 |
| 85° | 0.0 | 0.0 | 4.4 | 8.9 | 13.3 | 15.6 | 15.6 | 11.1 | 11.1 | 6.7 | 4.4 |
| 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)