

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: P528587

Luminaire Tested: **GALN-SA3D-722-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-722-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11662 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

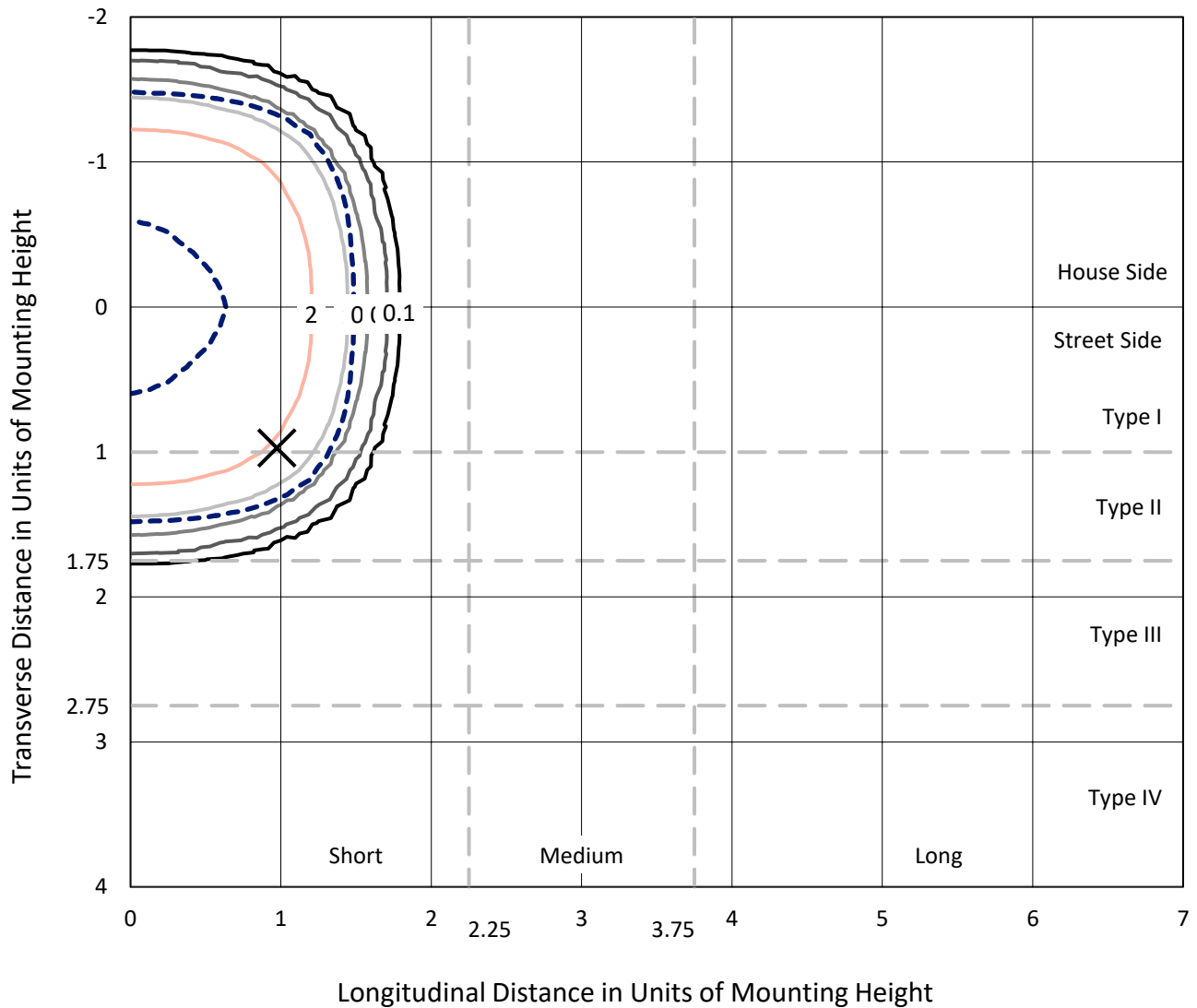
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528587
 CATALOG NUMBER: GALN-SA3D-722-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

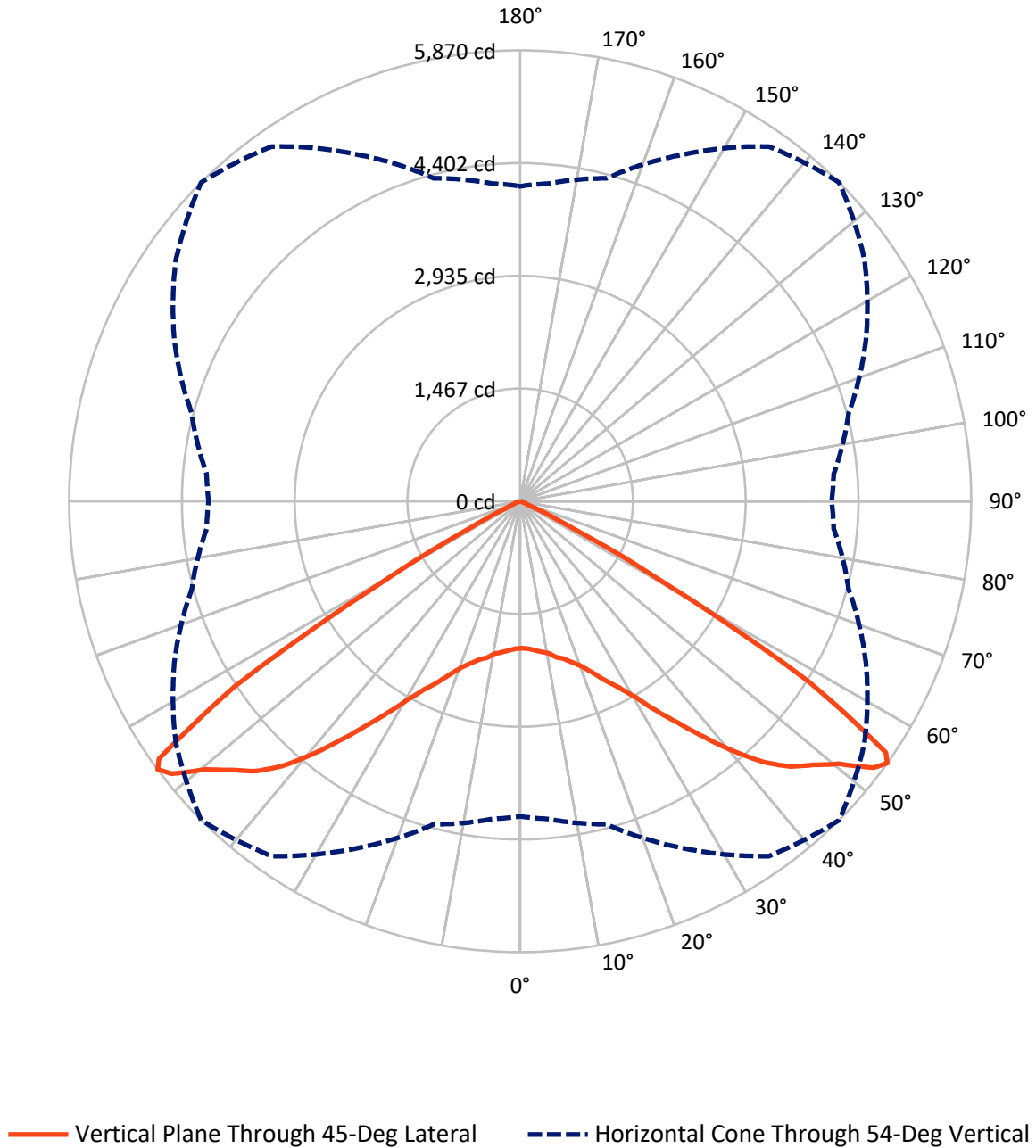
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

REPORT NUMBER: P528587
CATALOG NUMBER: GALN-SA3D-722-U-5NQ-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P528587
 CATALOG NUMBER: GALN-SA3D-722-U-5NQ-GRSBK

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5831.0 | 0.0 | 5831.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5831.0 | 0.0 | 5831.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11662.0 | 0.0 | 11662.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.2 | 1.6 |
| 10°-20° | 606.1 | 5.2 |
| 20°-30° | 1187.9 | 10.2 |
| 30°-40° | 2136.1 | 18.3 |
| 40°-50° | 3656.6 | 31.4 |
| 50°-60° | 3538.1 | 30.3 |
| 60°-70° | 302.9 | 2.6 |
| 70°-80° | 35.9 | 0.3 |
| 80°-90° | 11.3 | 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° | 11662.0 | 100.0 |
| 0°-180° | 11662.0 | 100.0 |

Coefficient of Utilization



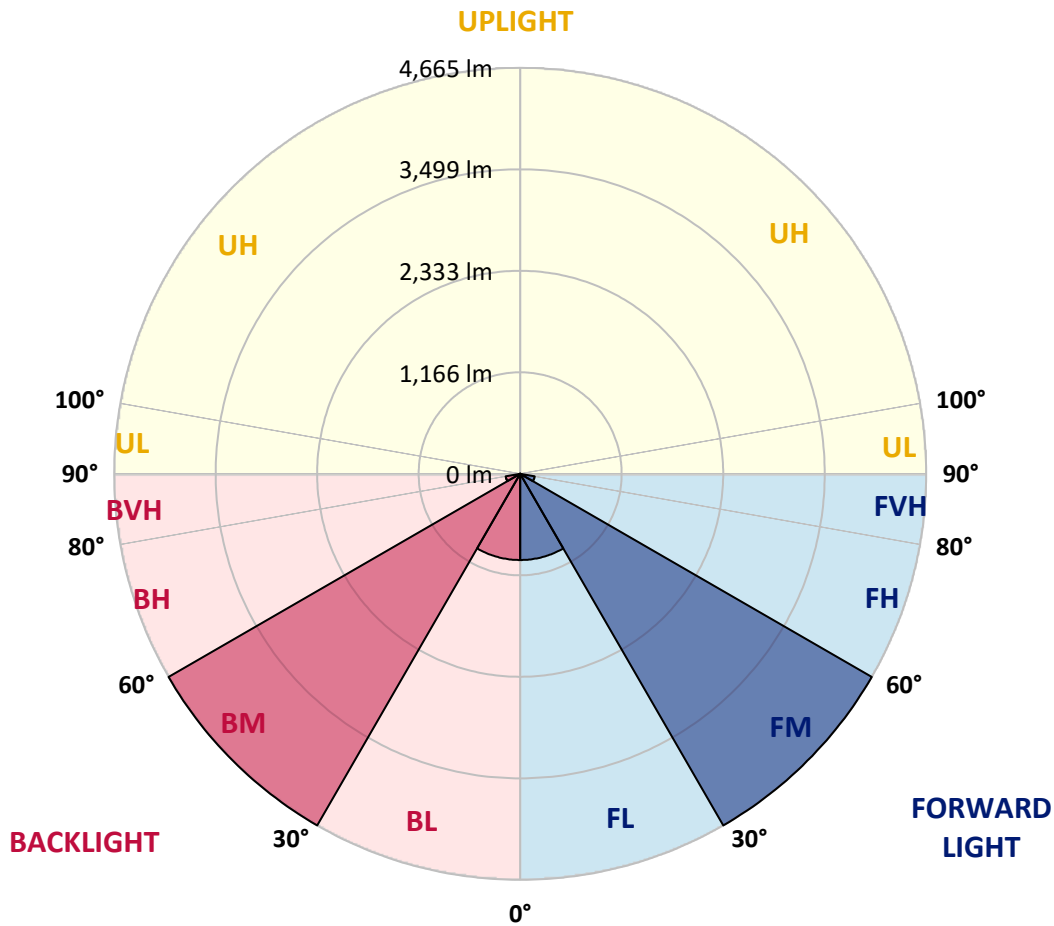
REPORT NUMBER: P528587
 CATALOG NUMBER: GALN-SA3D-722-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 990.6 | 8.5 | | | |
| FM (30°-60°) | 4665.4 | 40.0 | | | |
| FH (60°-80°) | 169.4 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 990.6 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 4665.4 | 40.0 | B3/5000 | | |
| BH (60°-80°) | 169.4 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0

Type V Short





REPORT NUMBER: P528587

CATALOG NUMBER: GALN-SA3D-722-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1912.2 | 1912.2 | 1912.2 | 1912.2 | 1912.2 | 1912.2 | 1912.2 | 1912.2 | 1912.2 | 1912.2 | 1912.2 |
| 2.5° | 1921.4 | 1932.5 | 1925.1 | 1930.7 | 1930.7 | 1921.4 | 1927.0 | 1904.8 | 1919.6 | 1908.5 | 1910.4 |
| 5° | 1951.0 | 1949.2 | 1949.2 | 1951.0 | 1943.6 | 1947.3 | 1939.9 | 1932.5 | 1927.0 | 1919.6 | 1941.8 |
| 7.5° | 1988.0 | 1988.0 | 1975.0 | 1978.7 | 1975.0 | 1980.6 | 1965.8 | 1951.0 | 1945.5 | 1939.9 | 1936.2 |
| 10° | 2023.1 | 2019.4 | 2013.8 | 2030.4 | 2017.5 | 2010.1 | 2002.7 | 1993.5 | 1973.2 | 1965.8 | 1958.4 |
| 12.5° | 2074.8 | 2072.9 | 2065.6 | 2082.2 | 2074.8 | 2082.2 | 2054.5 | 2030.4 | 2026.8 | 2002.7 | 2015.7 |
| 15° | 2135.8 | 2152.4 | 2139.5 | 2139.5 | 2135.8 | 2126.5 | 2115.4 | 2104.3 | 2071.1 | 2061.9 | 2063.7 |
| 17.5° | 2215.2 | 2209.7 | 2211.5 | 2211.5 | 2230.0 | 2206.0 | 2183.8 | 2156.1 | 2139.5 | 2133.9 | 2115.4 |
| 20° | 2291.0 | 2298.3 | 2296.5 | 2309.4 | 2320.5 | 2294.6 | 2270.6 | 2266.9 | 2220.7 | 2228.1 | 2202.3 |
| 22.5° | 2424.0 | 2418.4 | 2427.7 | 2436.9 | 2429.5 | 2425.8 | 2403.7 | 2375.9 | 2335.3 | 2316.8 | 2313.1 |
| 25° | 2564.4 | 2555.1 | 2538.5 | 2560.7 | 2571.8 | 2588.4 | 2545.9 | 2531.1 | 2468.3 | 2440.6 | 2442.4 |
| 27.5° | 2684.5 | 2697.4 | 2715.9 | 2725.1 | 2752.8 | 2747.3 | 2717.7 | 2669.7 | 2621.7 | 2590.3 | 2569.9 |
| 30° | 2848.9 | 2856.3 | 2887.7 | 2900.6 | 2948.7 | 2961.6 | 2915.4 | 2860.0 | 2775.0 | 2734.4 | 2710.3 |
| 32.5° | 3000.4 | 3052.1 | 3050.3 | 3115.0 | 3192.6 | 3246.1 | 3163.0 | 3078.0 | 2993.0 | 2945.0 | 2902.5 |
| 35° | 3246.1 | 3236.9 | 3290.5 | 3358.8 | 3484.5 | 3545.4 | 3454.9 | 3357.0 | 3227.7 | 3150.1 | 3116.8 |
| 37.5° | 3475.2 | 3478.9 | 3551.0 | 3660.0 | 3804.1 | 3898.3 | 3818.9 | 3658.1 | 3525.1 | 3425.3 | 3379.2 |
| 40° | 3807.8 | 3815.2 | 3889.1 | 4012.9 | 4175.4 | 4277.1 | 4184.7 | 4022.1 | 3844.7 | 3767.1 | 3767.1 |
| 42.5° | 4197.6 | 4229.0 | 4277.1 | 4384.2 | 4530.2 | 4642.9 | 4559.7 | 4432.3 | 4253.0 | 4153.3 | 4168.1 |
| 45° | 4598.5 | 4613.3 | 4644.7 | 4803.6 | 4872.0 | 4927.4 | 4849.8 | 4790.7 | 4670.6 | 4548.6 | 4528.3 |
| 47.5° | 4973.6 | 4979.1 | 5071.5 | 5121.4 | 5175.0 | 5128.8 | 5178.7 | 5101.1 | 4966.2 | 4847.9 | 4823.9 |
| 50° | 5139.9 | 5130.6 | 5261.8 | 5413.3 | 5453.9 | 5372.6 | 5330.2 | 5278.4 | 5073.3 | 4931.1 | 4868.3 |
| 52.5° | 4655.8 | 4709.4 | 4953.3 | 5374.5 | 5692.3 | 5760.6 | 5513.1 | 5274.7 | 4892.3 | 4615.2 | 4572.7 |
| 54° | 4101.5 | 4151.4 | 4352.8 | 4977.3 | 5638.7 | 5869.6 | 5470.6 | 4964.3 | 4424.9 | 4096.0 | 4053.5 |
| 55° | 3552.8 | 3497.4 | 3863.2 | 4500.6 | 5387.4 | 5773.6 | 5302.4 | 4563.4 | 3946.3 | 3645.2 | 3586.1 |
| 57.5° | 1923.3 | 1932.5 | 2241.1 | 2843.4 | 3785.6 | 4426.7 | 3909.4 | 3087.2 | 2331.6 | 1993.5 | 1963.9 |
| 60° | 609.7 | 624.5 | 759.3 | 1149.2 | 1808.7 | 2159.8 | 1851.2 | 1239.7 | 857.3 | 687.3 | 659.6 |
| 62.5° | 190.3 | 197.7 | 216.2 | 321.5 | 495.1 | 707.6 | 554.3 | 332.6 | 247.6 | 227.2 | 230.9 |
| 65° | 116.4 | 116.4 | 118.2 | 125.6 | 147.8 | 171.8 | 166.3 | 146.0 | 140.4 | 136.7 | 134.9 |
| 67.5° | 75.7 | 73.9 | 77.6 | 83.1 | 86.8 | 88.7 | 94.2 | 99.8 | 97.9 | 94.2 | 94.2 |
| 70° | 46.2 | 44.3 | 48.0 | 55.4 | 57.3 | 61.0 | 66.5 | 73.9 | 72.1 | 68.4 | 70.2 |
| 72.5° | 25.9 | 25.9 | 27.7 | 33.3 | 38.8 | 42.5 | 48.0 | 53.6 | 55.4 | 53.6 | 53.6 |
| 75° | 9.2 | 11.1 | 14.8 | 20.3 | 24.0 | 29.6 | 35.1 | 40.6 | 46.2 | 42.5 | 40.6 |
| 77.5° | 3.7 | 3.7 | 7.4 | 12.9 | 18.5 | 24.0 | 33.3 | 38.8 | 42.5 | 38.8 | 35.1 |
| 80° | 1.8 | 1.8 | 5.5 | 11.1 | 16.6 | 22.2 | 27.7 | 33.3 | 35.1 | 31.4 | 27.7 |
| 82.5° | 1.8 | 1.8 | 5.5 | 11.1 | 16.6 | 20.3 | 29.6 | 33.3 | 37.0 | 33.3 | 27.7 |
| 85° | 0.0 | 1.8 | 5.5 | 11.1 | 14.8 | 16.6 | 16.6 | 11.1 | 9.2 | 5.5 | 5.5 |
| 87.5° | 0.0 | 0.0 | 1.8 | 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)