

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: P527498

Luminaire Tested: **GALN-SA2C-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11173 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

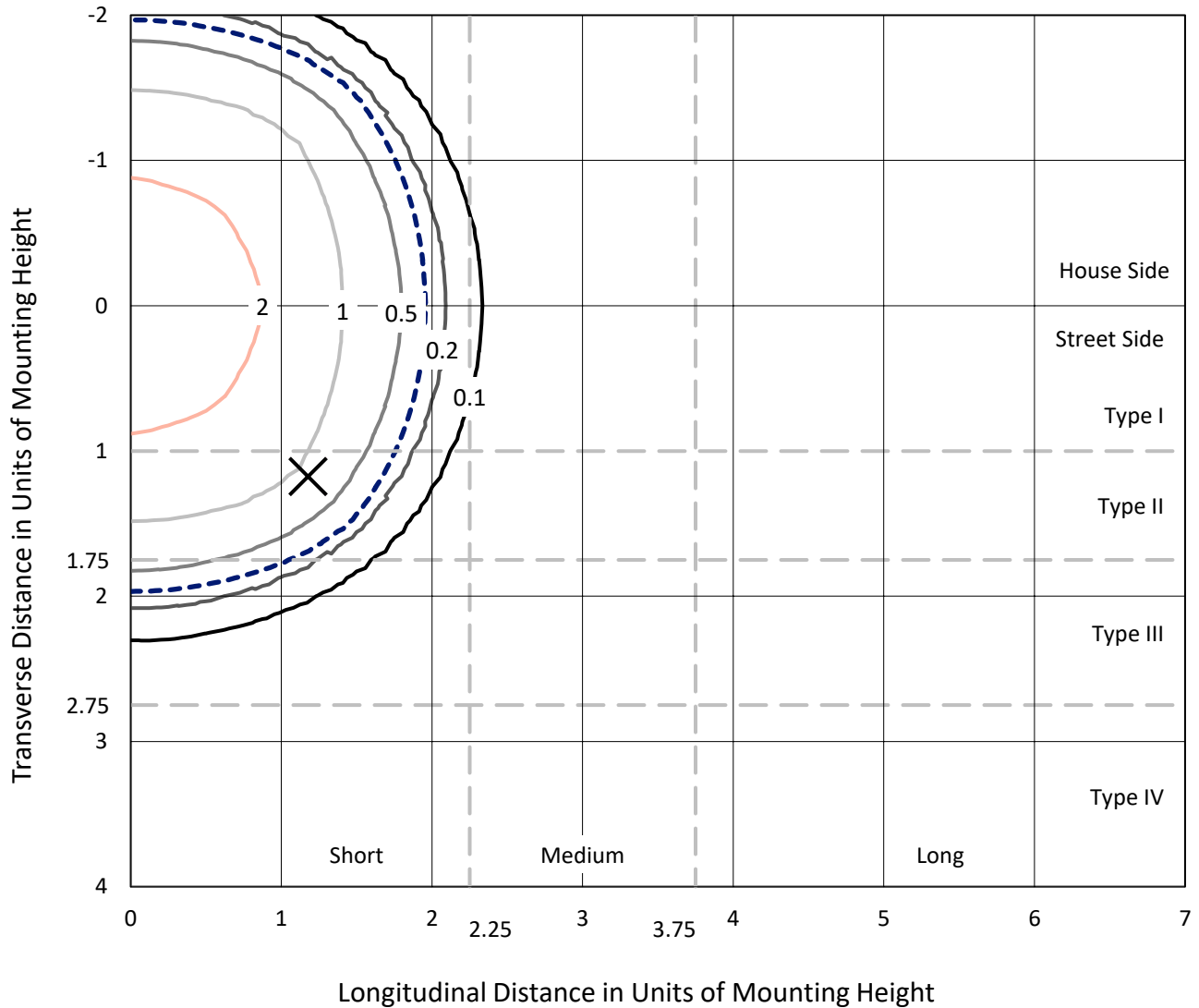
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

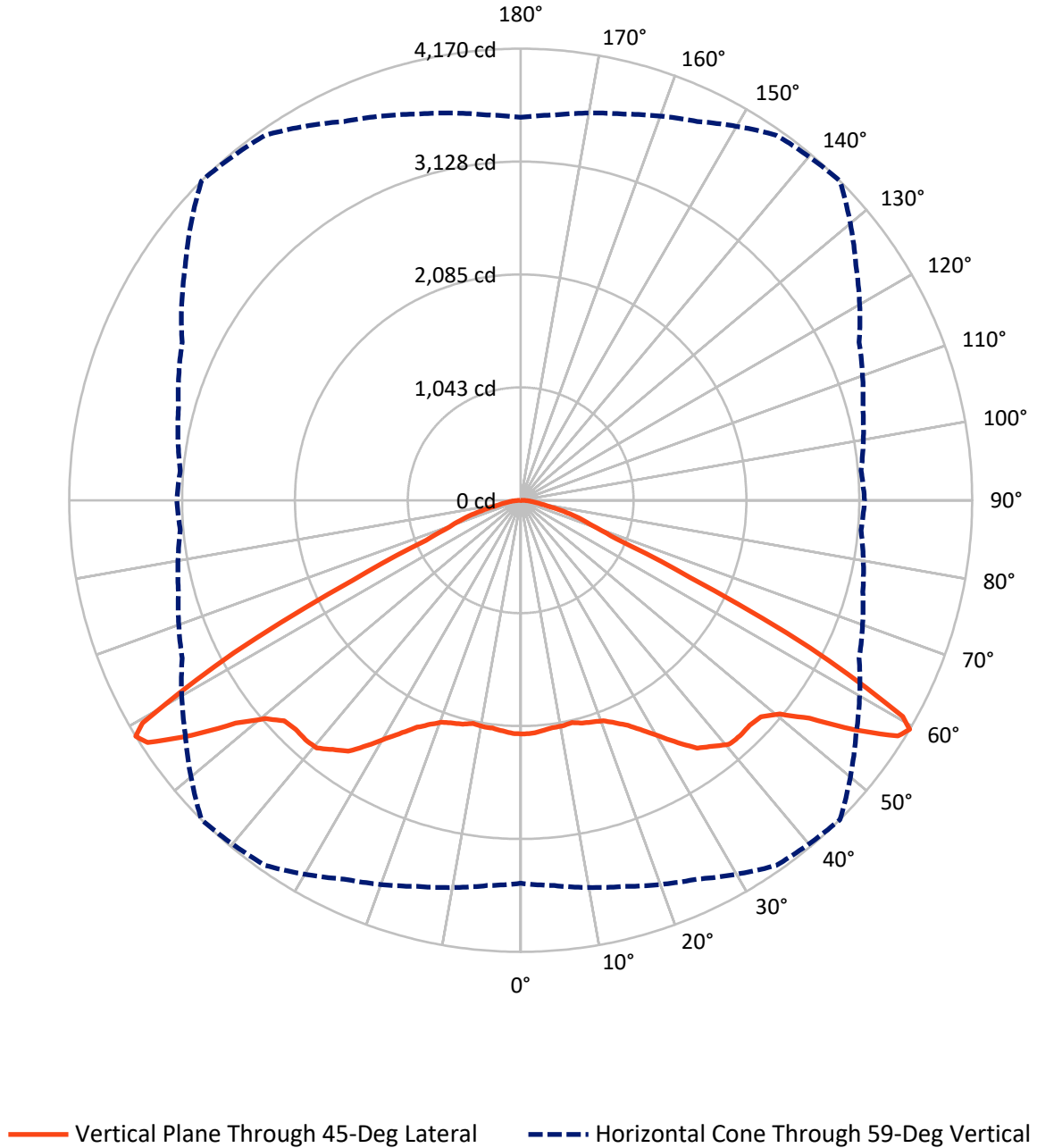
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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 | 5586.5 | 0.0 | 5586.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5586.5 | 0.0 | 5586.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11173.0 | 0.0 | 11173.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 203.4 | 1.8 |
| 10°-20° | 605.0 | 5.4 |
| 20°-30° | 1056.4 | 9.5 |
| 30°-40° | 1687.2 | 15.1 |
| 40°-50° | 2298.3 | 20.6 |
| 50°-60° | 3107.9 | 27.8 |
| 60°-70° | 1704.4 | 15.3 |
| 70°-80° | 436.0 | 3.9 |
| 80°-90° | 74.4 | 0.7 |
| 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° | 11173.0 | 100.0 |
| 0°-180° | 11173.0 | 100.0 |

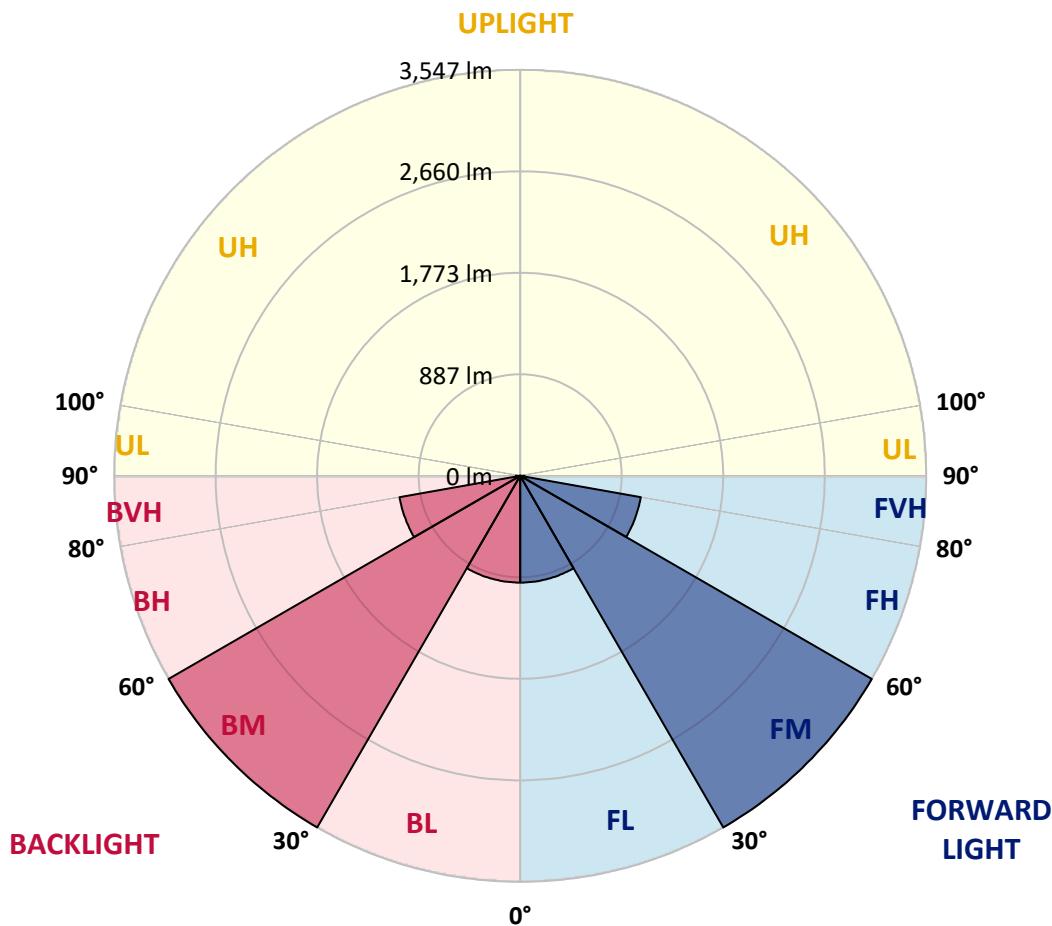


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 932.4 | 8.3 | | | |
| FM (30°-60°) | 3546.7 | 31.7 | | | |
| FH (60°-80°) | 1070.2 | 9.6 | | | G1/1800 |
| FVH (80°-90°) | 37.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 932.4 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 3546.7 | 31.7 | B3/5000 | | |
| BH (60°-80°) | 1070.2 | 9.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 37.2 | 0.3 | | | G1/100 |
| 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° | 2158.1 | 2158.1 | 2158.1 | 2158.1 | 2158.1 | 2158.1 | 2158.1 | 2158.1 | 2158.1 | 2158.1 | 2158.1 |
| 2.5° | 2145.2 | 2161.0 | 2149.5 | 2159.5 | 2158.1 | 2153.8 | 2146.6 | 2142.3 | 2136.6 | 2145.2 | 2130.9 |
| 5° | 2136.6 | 2149.5 | 2162.4 | 2145.2 | 2145.2 | 2136.6 | 2132.3 | 2123.7 | 2123.7 | 2122.3 | 2120.9 |
| 7.5° | 2150.9 | 2138.0 | 2132.3 | 2135.2 | 2138.0 | 2119.4 | 2132.3 | 2115.1 | 2100.8 | 2110.8 | 2122.3 |
| 10° | 2138.0 | 2143.8 | 2122.3 | 2132.3 | 2116.6 | 2119.4 | 2110.8 | 2122.3 | 2106.5 | 2106.5 | 2106.5 |
| 12.5° | 2150.9 | 2135.2 | 2142.3 | 2135.2 | 2130.9 | 2106.5 | 2118.0 | 2105.1 | 2103.7 | 2118.0 | 2105.1 |
| 15° | 2176.7 | 2150.9 | 2145.2 | 2130.9 | 2135.2 | 2135.2 | 2123.7 | 2125.2 | 2109.4 | 2118.0 | 2120.9 |
| 17.5° | 2168.1 | 2153.8 | 2149.5 | 2132.3 | 2146.6 | 2150.9 | 2129.4 | 2115.1 | 2125.2 | 2123.7 | 2122.3 |
| 20° | 2175.3 | 2181.0 | 2176.7 | 2179.6 | 2185.3 | 2173.8 | 2153.8 | 2133.7 | 2120.9 | 2139.5 | 2138.0 |
| 22.5° | 2221.1 | 2215.4 | 2212.5 | 2209.6 | 2219.7 | 2231.1 | 2203.9 | 2172.4 | 2172.4 | 2185.3 | 2191.0 |
| 25° | 2258.3 | 2256.9 | 2255.5 | 2268.4 | 2302.7 | 2302.7 | 2268.4 | 2228.3 | 2218.2 | 2226.8 | 2219.7 |
| 27.5° | 2312.7 | 2328.5 | 2322.8 | 2345.7 | 2395.8 | 2407.3 | 2361.4 | 2314.2 | 2287.0 | 2276.9 | 2289.8 |
| 30° | 2437.3 | 2418.7 | 2423.0 | 2447.4 | 2491.8 | 2529.0 | 2458.8 | 2408.7 | 2371.5 | 2370.0 | 2375.8 |
| 32.5° | 2520.4 | 2534.7 | 2547.6 | 2570.5 | 2640.7 | 2669.3 | 2584.8 | 2503.2 | 2480.3 | 2467.4 | 2471.7 |
| 35° | 2686.5 | 2673.6 | 2670.8 | 2693.7 | 2763.8 | 2811.1 | 2705.1 | 2633.5 | 2603.5 | 2632.1 | 2632.1 |
| 37.5° | 2844.0 | 2808.2 | 2781.0 | 2811.1 | 2875.5 | 2881.3 | 2791.1 | 2752.4 | 2736.6 | 2769.6 | 2768.1 |
| 40° | 2918.5 | 2915.6 | 2852.6 | 2869.8 | 2955.7 | 2964.3 | 2879.8 | 2834.0 | 2831.1 | 2874.1 | 2917.1 |
| 42.5° | 2995.8 | 2968.6 | 2905.6 | 2917.1 | 2970.1 | 2972.9 | 2892.7 | 2879.8 | 2911.3 | 2952.9 | 2955.7 |
| 45° | 3008.7 | 2985.8 | 2945.7 | 2917.1 | 2955.7 | 2964.3 | 2917.1 | 2925.7 | 2928.5 | 2978.7 | 2978.7 |
| 47.5° | 3034.5 | 3031.6 | 3008.7 | 2987.2 | 2994.4 | 2987.2 | 2957.2 | 2970.1 | 3013.0 | 3037.4 | 3025.9 |
| 50° | 3106.1 | 3076.0 | 3098.9 | 3080.3 | 3081.8 | 3101.8 | 3074.6 | 3087.5 | 3078.9 | 3057.4 | 3043.1 |
| 52.5° | 3263.6 | 3249.3 | 3269.4 | 3282.2 | 3296.6 | 3342.4 | 3310.9 | 3242.1 | 3177.7 | 3120.4 | 3119.0 |
| 55° | 3494.2 | 3504.2 | 3542.9 | 3608.7 | 3664.6 | 3737.6 | 3585.8 | 3421.2 | 3318.0 | 3227.8 | 3233.6 |
| 57.5° | 3711.9 | 3704.7 | 3757.7 | 3908.0 | 4071.3 | 4108.5 | 3810.7 | 3575.8 | 3408.3 | 3351.0 | 3326.6 |
| 59° | 3537.1 | 3571.5 | 3691.8 | 3859.4 | 4115.7 | 4170.1 | 3780.6 | 3449.8 | 3272.2 | 3156.2 | 3176.3 |
| 60° | 3262.2 | 3275.1 | 3382.5 | 3615.9 | 3962.5 | 4055.5 | 3578.7 | 3255.0 | 3018.7 | 2951.4 | 2981.5 |
| 62.5° | 2305.6 | 2295.6 | 2372.9 | 2563.4 | 2874.1 | 3000.1 | 2660.7 | 2433.0 | 2284.1 | 2209.6 | 2226.8 |
| 65° | 1225.8 | 1271.7 | 1303.2 | 1422.0 | 1586.7 | 1719.9 | 1579.5 | 1480.7 | 1397.7 | 1336.1 | 1334.7 |
| 67.5° | 827.7 | 822.0 | 829.2 | 856.4 | 912.2 | 949.4 | 946.6 | 896.5 | 889.3 | 877.8 | 890.7 |
| 70° | 697.4 | 694.5 | 681.7 | 681.7 | 693.1 | 701.7 | 711.7 | 717.5 | 728.9 | 743.2 | 741.8 |
| 72.5° | 565.7 | 558.5 | 549.9 | 545.6 | 559.9 | 564.2 | 577.1 | 582.8 | 592.9 | 591.4 | 604.3 |
| 75° | 373.8 | 373.8 | 383.8 | 395.2 | 399.5 | 408.1 | 409.6 | 426.7 | 426.7 | 429.6 | 418.2 |
| 77.5° | 209.1 | 203.4 | 210.5 | 222.0 | 232.0 | 247.7 | 263.5 | 276.4 | 283.5 | 280.7 | 280.7 |
| 80° | 121.7 | 121.7 | 128.9 | 141.8 | 154.7 | 169.0 | 180.4 | 190.5 | 197.6 | 194.8 | 189.0 |
| 82.5° | 75.9 | 75.9 | 83.1 | 95.9 | 106.0 | 114.6 | 130.3 | 143.2 | 151.8 | 148.9 | 141.8 |
| 85° | 38.7 | 38.7 | 47.3 | 55.8 | 68.7 | 74.5 | 73.0 | 67.3 | 65.9 | 58.7 | 58.7 |
| 87.5° | 10.0 | 10.0 | 14.3 | 15.8 | 12.9 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 15.8 |
| 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)