

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: P532671

Luminaire Tested: **GALN-SA8A-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532671
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-SA8A-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA 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: 19262 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

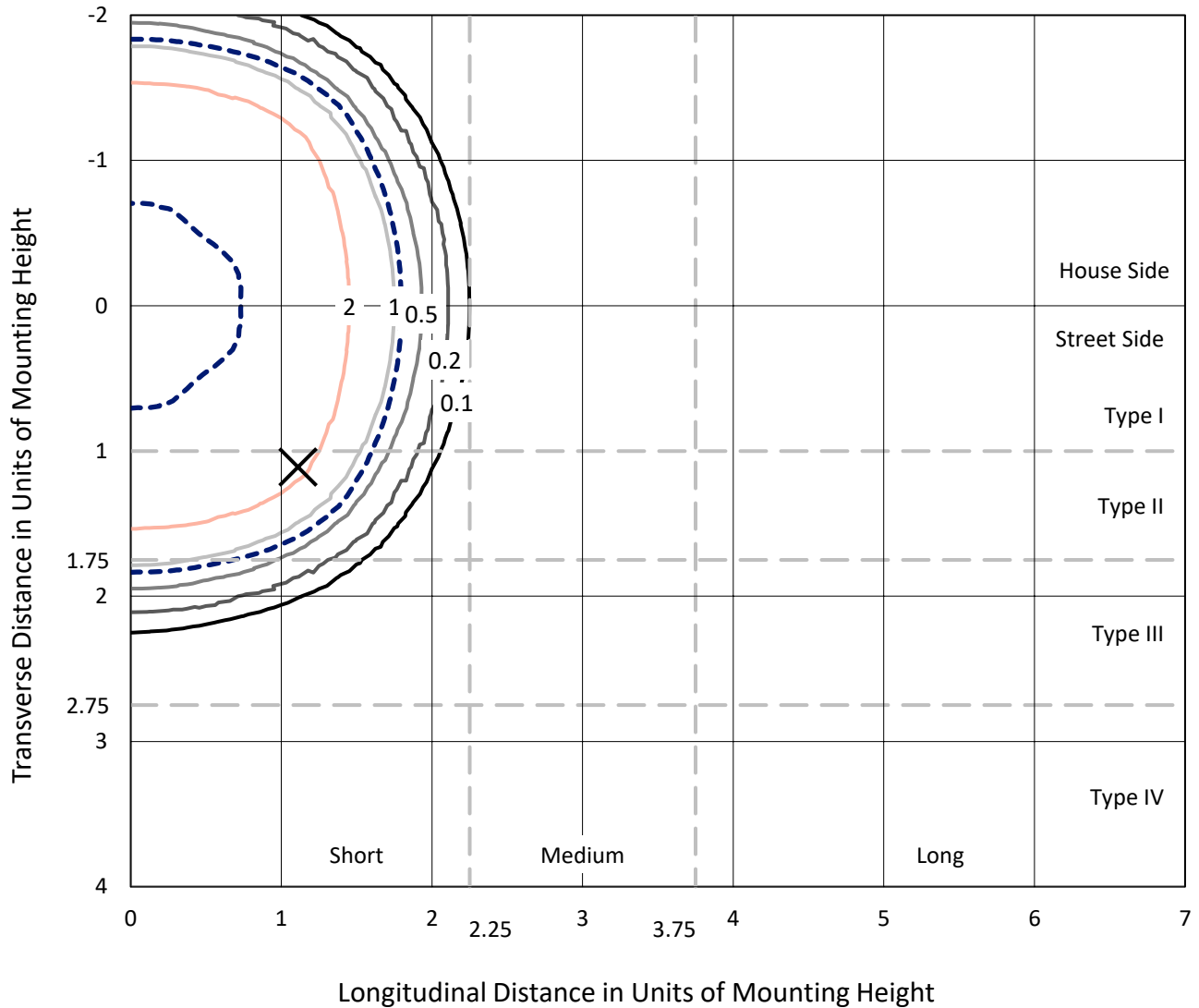
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

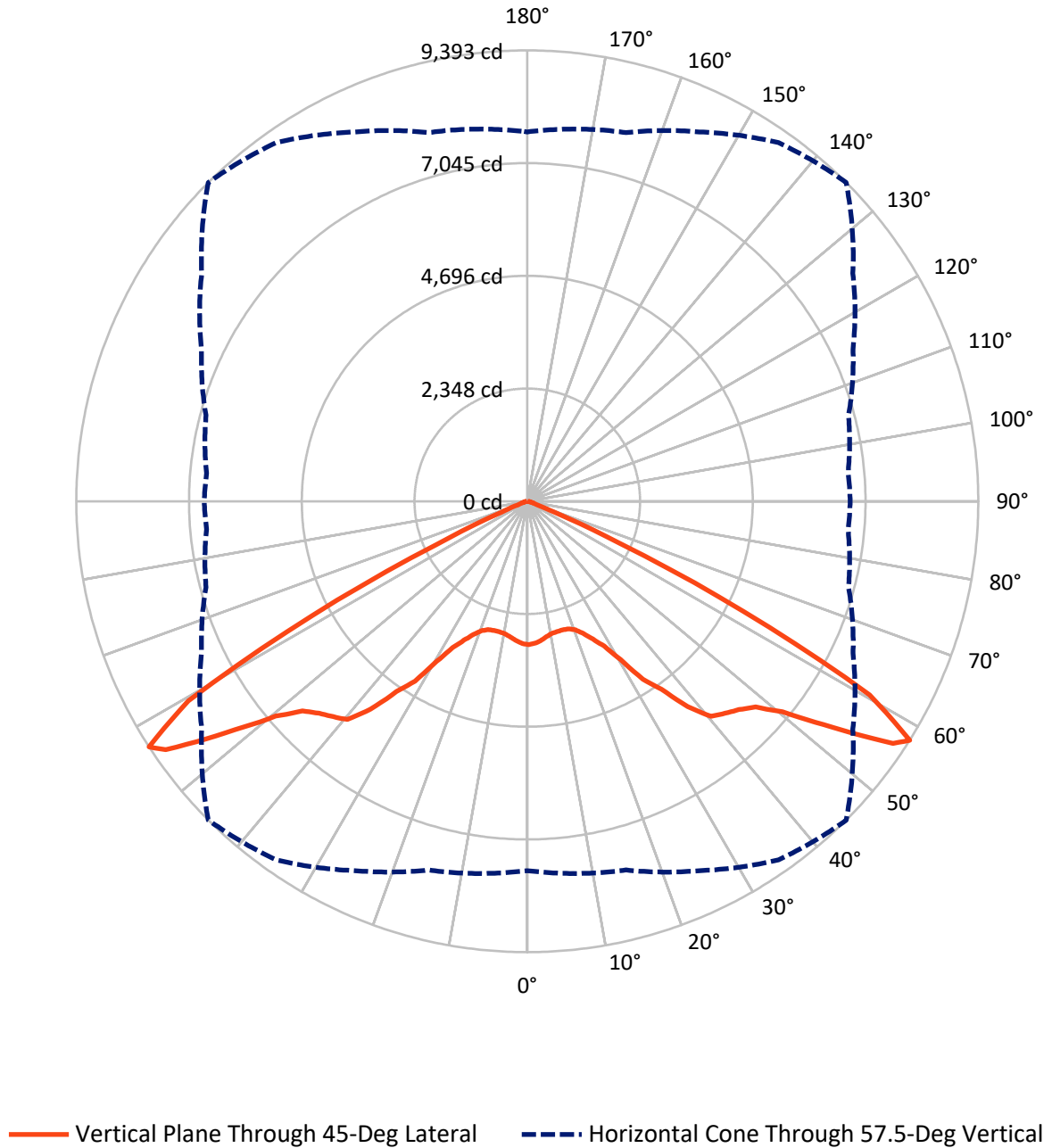
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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 | 9631.0 | 0.0 | 9631.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9631.0 | 0.0 | 9631.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19262.0 | 0.0 | 19262.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 274.6 | 1.4 |
| 10°-20° | 793.6 | 4.1 |
| 20°-30° | 1464.9 | 7.6 |
| 30°-40° | 2880.9 | 15.0 |
| 40°-50° | 4692.1 | 24.4 |
| 50°-60° | 6691.6 | 34.7 |
| 60°-70° | 2316.8 | 12.0 |
| 70°-80° | 124.3 | 0.6 |
| 80°-90° | 23.3 | 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° | 19262.0 | 100.0 |
| 0°-180° | 19262.0 | 100.0 |

Coefficient of Utilization



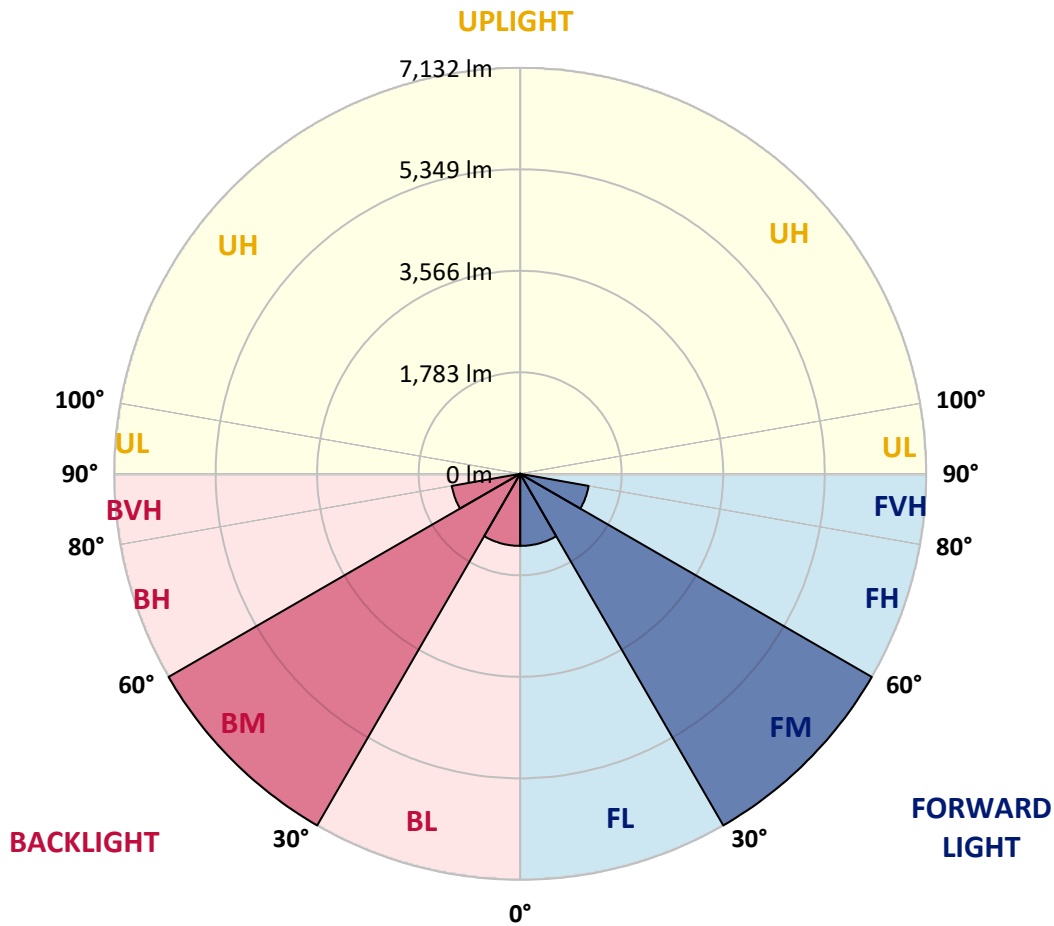
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1266.5 | 6.6 | | | |
| FM (30°-60°) | 7132.3 | 37.0 | | | |
| FH (60°-80°) | 1220.5 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 11.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1266.5 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 7132.3 | 37.0 | B4/8500 | | |
| BH (60°-80°) | 1220.5 | 6.3 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 11.7 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2987.7 | 2987.7 | 2987.7 | 2987.7 | 2987.7 | 2987.7 | 2987.7 | 2987.7 | 2987.7 | 2987.7 | 2987.7 |
| 2.5° | 2979.7 | 2995.8 | 2975.7 | 2967.7 | 2963.6 | 2963.6 | 2951.6 | 2951.6 | 2947.6 | 2951.6 | 2935.5 |
| 5° | 2931.5 | 2947.6 | 2947.6 | 2943.6 | 2919.5 | 2915.5 | 2903.4 | 2895.4 | 2899.4 | 2883.3 | 2895.4 |
| 7.5° | 2883.3 | 2895.4 | 2879.3 | 2875.3 | 2867.3 | 2851.2 | 2847.2 | 2811.0 | 2815.1 | 2815.1 | 2823.1 |
| 10° | 2875.3 | 2871.3 | 2847.2 | 2827.1 | 2803.0 | 2799.0 | 2786.9 | 2778.9 | 2778.9 | 2774.9 | 2786.9 |
| 12.5° | 2875.3 | 2855.2 | 2851.2 | 2807.0 | 2766.9 | 2782.9 | 2750.8 | 2730.7 | 2758.8 | 2766.9 | 2782.9 |
| 15° | 2871.3 | 2891.4 | 2823.1 | 2803.0 | 2774.9 | 2778.9 | 2750.8 | 2730.7 | 2746.8 | 2754.8 | 2766.9 |
| 17.5° | 2895.4 | 2883.3 | 2863.2 | 2823.1 | 2811.0 | 2795.0 | 2758.8 | 2742.8 | 2742.8 | 2762.9 | 2766.9 |
| 20° | 2959.6 | 2927.5 | 2887.3 | 2867.3 | 2879.3 | 2859.2 | 2815.1 | 2754.8 | 2770.9 | 2786.9 | 2799.0 |
| 22.5° | 3019.9 | 2995.8 | 2967.7 | 2955.6 | 3023.9 | 2991.8 | 2915.5 | 2847.2 | 2823.1 | 2851.2 | 2871.3 |
| 25° | 3136.3 | 3136.3 | 3084.1 | 3100.2 | 3176.5 | 3180.5 | 3092.1 | 2971.7 | 2955.6 | 2967.7 | 2975.7 |
| 27.5° | 3373.3 | 3385.3 | 3341.1 | 3357.2 | 3389.3 | 3417.4 | 3341.1 | 3240.7 | 3204.6 | 3200.6 | 3212.6 |
| 30° | 3630.3 | 3654.4 | 3650.3 | 3718.6 | 3811.0 | 3827.0 | 3714.6 | 3549.9 | 3441.5 | 3421.4 | 3437.5 |
| 32.5° | 3967.6 | 3979.6 | 3971.6 | 4051.9 | 4300.9 | 4417.4 | 4124.2 | 3891.3 | 3746.7 | 3782.9 | 3746.7 |
| 35° | 4602.1 | 4590.0 | 4501.7 | 4517.7 | 4722.6 | 4806.9 | 4525.8 | 4377.2 | 4308.9 | 4381.2 | 4365.1 |
| 37.5° | 5148.2 | 5104.1 | 5031.8 | 5136.2 | 5349.0 | 5425.3 | 5132.2 | 4871.1 | 4746.6 | 4867.1 | 4919.3 |
| 40° | 5610.0 | 5497.6 | 5397.2 | 5501.6 | 5786.7 | 5891.1 | 5461.5 | 5248.6 | 5200.4 | 5288.8 | 5401.2 |
| 42.5° | 5999.6 | 5927.3 | 5794.8 | 5802.8 | 5991.5 | 6039.7 | 5694.4 | 5569.9 | 5521.7 | 5662.2 | 5718.5 |
| 45° | 6276.7 | 6208.4 | 6083.9 | 6075.9 | 6220.4 | 6188.3 | 5879.1 | 5794.8 | 5822.9 | 5915.2 | 5943.3 |
| 47.5° | 6417.2 | 6453.4 | 6381.1 | 6401.1 | 6477.4 | 6401.1 | 6156.2 | 6156.2 | 6091.9 | 6148.2 | 6120.0 |
| 50° | 6822.8 | 6710.4 | 6802.7 | 6802.7 | 6883.0 | 6891.1 | 6646.1 | 6557.8 | 6385.1 | 6288.7 | 6288.7 |
| 52.5° | 7296.7 | 7304.7 | 7340.8 | 7473.4 | 7609.9 | 7726.4 | 7377.0 | 6999.5 | 6710.4 | 6585.9 | 6569.8 |
| 55° | 7686.2 | 7766.5 | 7911.1 | 8160.1 | 8553.6 | 8714.2 | 8111.9 | 7437.2 | 7083.8 | 6891.1 | 6850.9 |
| 56° | 7899.0 | 7822.7 | 8071.7 | 8413.1 | 8927.1 | 9135.9 | 8232.3 | 7525.6 | 7136.0 | 6919.2 | 6915.2 |
| 57.5° | 7694.2 | 7778.6 | 7951.2 | 8489.4 | 9119.8 | 9392.9 | 8276.5 | 7485.4 | 6927.2 | 6706.3 | 6726.4 |
| 60° | 6075.9 | 6156.2 | 6389.1 | 6991.5 | 7979.3 | 8192.2 | 7003.5 | 6172.2 | 5674.3 | 5357.0 | 5361.1 |
| 62.5° | 3437.5 | 3497.7 | 3678.5 | 4236.6 | 4851.1 | 5055.9 | 4365.1 | 3811.0 | 3465.6 | 3288.9 | 3232.7 |
| 65° | 1265.0 | 1240.9 | 1269.0 | 1554.1 | 1931.6 | 2104.3 | 1815.1 | 1534.0 | 1353.3 | 1289.1 | 1265.0 |
| 67.5° | 473.9 | 437.7 | 409.6 | 437.7 | 550.2 | 582.3 | 534.1 | 445.8 | 417.6 | 429.7 | 437.7 |
| 70° | 293.2 | 277.1 | 220.9 | 208.8 | 204.8 | 200.8 | 212.8 | 224.9 | 257.0 | 301.2 | 309.2 |
| 72.5° | 204.8 | 192.8 | 156.6 | 148.6 | 140.6 | 136.5 | 156.6 | 172.7 | 200.8 | 232.9 | 236.9 |
| 75° | 80.3 | 84.3 | 80.3 | 88.3 | 92.4 | 96.4 | 112.4 | 124.5 | 136.5 | 136.5 | 132.5 |
| 77.5° | 16.1 | 16.1 | 24.1 | 32.1 | 40.2 | 52.2 | 76.3 | 88.3 | 92.4 | 88.3 | 76.3 |
| 80° | 0.0 | 0.0 | 8.0 | 16.1 | 32.1 | 44.2 | 68.3 | 76.3 | 84.3 | 76.3 | 60.2 |
| 82.5° | 0.0 | 0.0 | 8.0 | 20.1 | 32.1 | 40.2 | 64.3 | 80.3 | 92.4 | 84.3 | 64.3 |
| 85° | 0.0 | 0.0 | 8.0 | 16.1 | 24.1 | 28.1 | 28.1 | 20.1 | 20.1 | 12.0 | 8.0 |
| 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)