

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: P157512

Luminaire Tested: **VTS-E10-LED-E1-5WQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157512
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33709)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E10-LED-E1-5WQ-7060
Description: VENTUS LED SITE LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (210) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

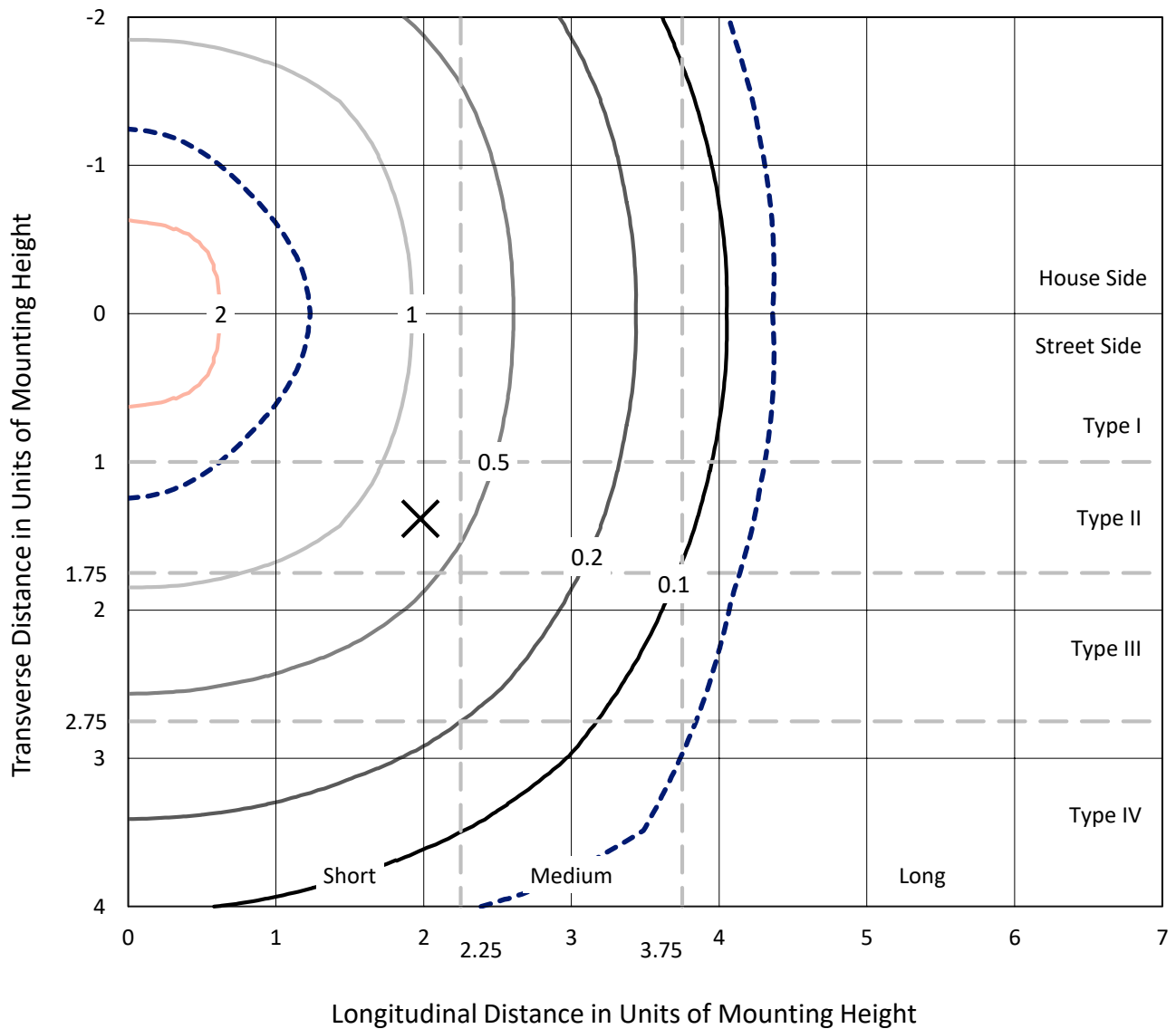
Lumens per Lamp: N/A
Luminaire Lumens: 32399.2 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.7
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

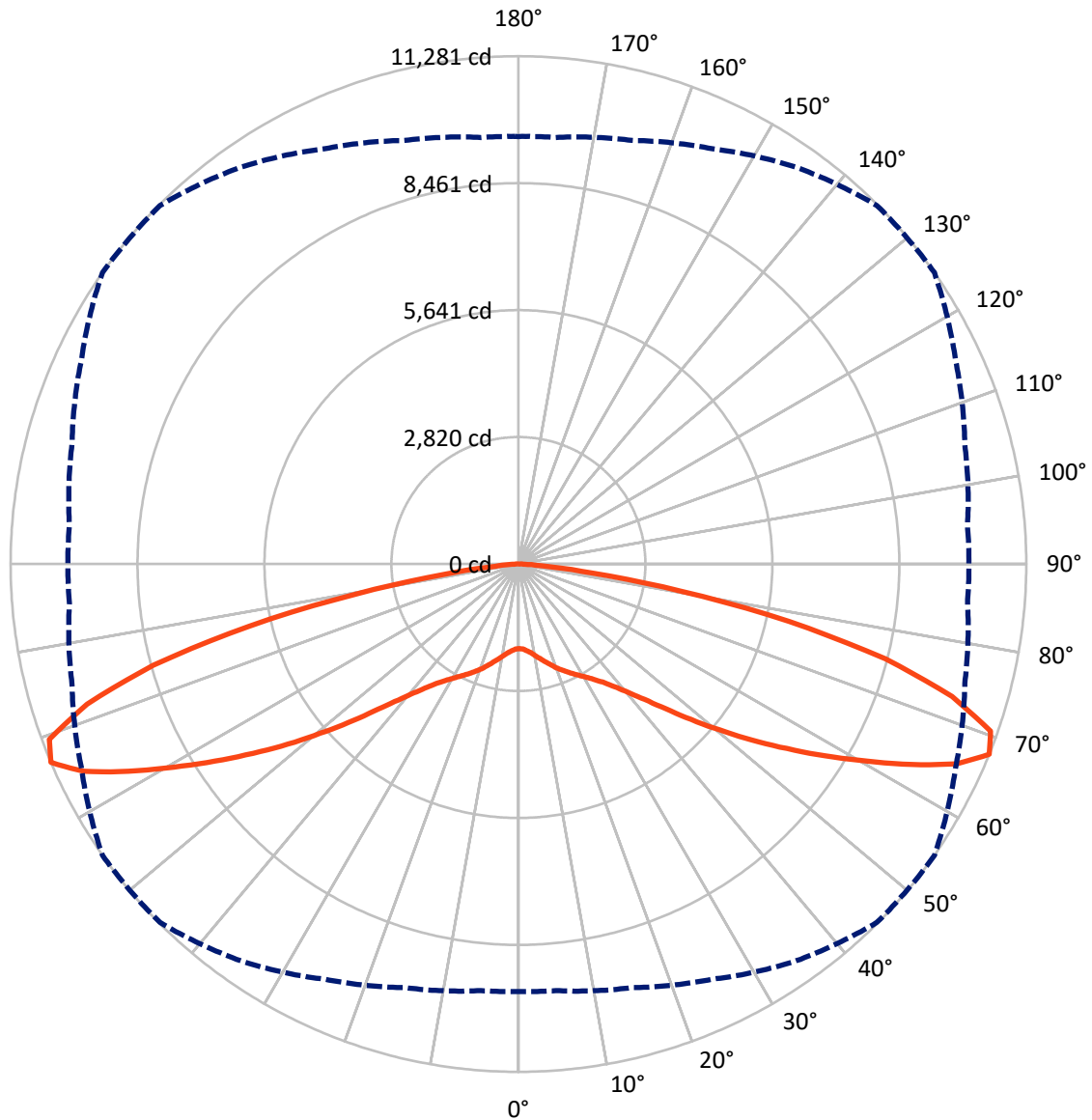
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16199.6 | 0.0 | 16199.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16199.6 | 0.0 | 16199.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32399.2 | 0.0 | 32399.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 188.7 | 0.6 |
| 10°-20° | 644.6 | 2.0 |
| 20°-30° | 1239.5 | 3.8 |
| 30°-40° | 2030.5 | 6.3 |
| 40°-50° | 3529.9 | 10.9 |
| 50°-60° | 6300.7 | 19.4 |
| 60°-70° | 9727.9 | 30.0 |
| 70°-80° | 7874.7 | 24.3 |
| 80°-90° | 862.6 | 2.7 |
| 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° | 32399.2 | 100.0 |
| 0°-180° | 32399.2 | 100.0 |



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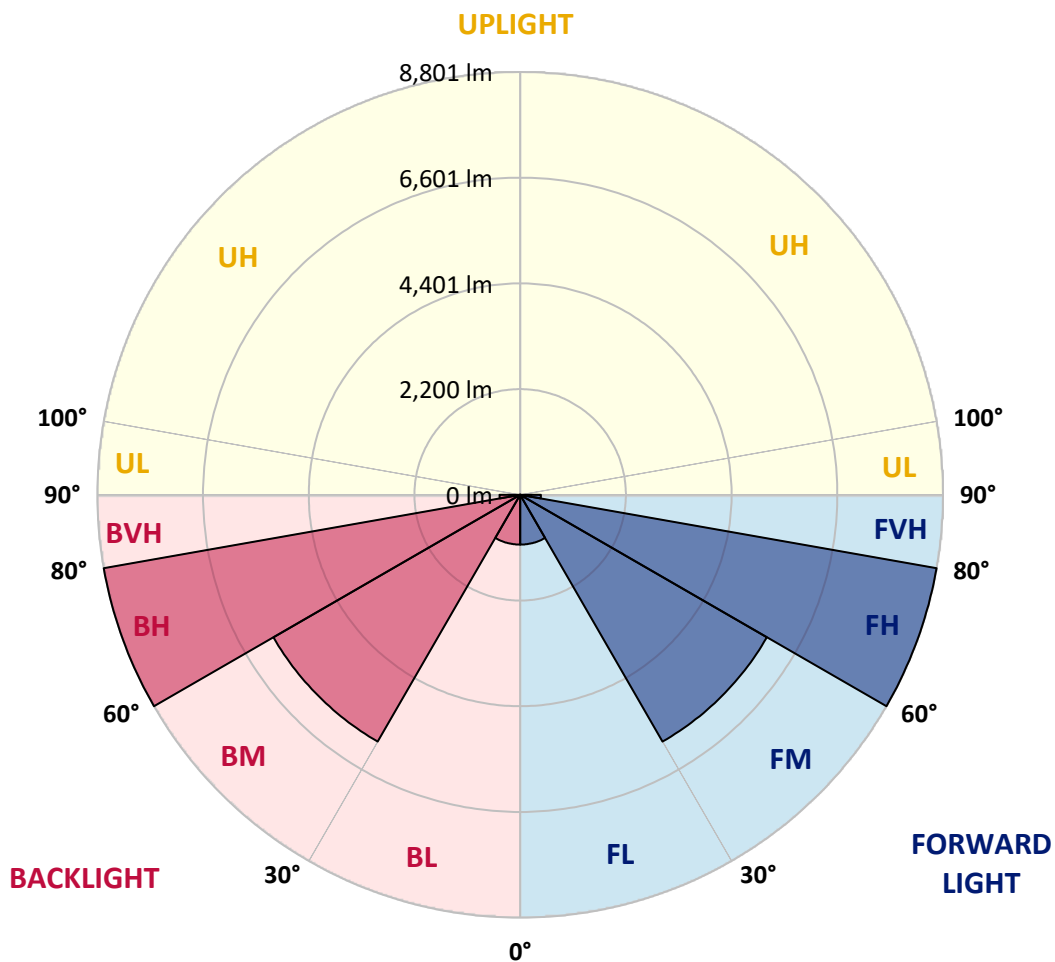
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1036.4 | 3.2 | | | |
| FM | (30°-60°) | 5930.6 | 18.3 | | | |
| FH | (60°-80°) | 8801.3 | 27.2 | | | G4/12000 |
| FVH | (80°-90°) | 431.3 | 1.3 | | | G3/500 |
| BL | (0°-30°) | 1036.4 | 3.2 | B3/2500 | | |
| BM | (30°-60°) | 5930.6 | 18.3 | B4/8500 | | |
| BH | (60°-80°) | 8801.3 | 27.2 | B5 | | G4/12000 |
| BVH | (80°-90°) | 431.3 | 1.3 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1879.8 | 1879.8 | 1879.8 | 1879.8 | 1879.8 | 1879.8 | 1879.8 | 1879.8 | 1879.8 | 1879.8 | 1879.8 |
| 2.5° | 1892.1 | 1894.2 | 1892.1 | 1892.1 | 1890.1 | 1890.1 | 1890.1 | 1892.1 | 1892.1 | 1896.2 | 1894.2 |
| 5° | 1931.1 | 1933.2 | 1929.1 | 1933.2 | 1933.2 | 1935.2 | 1933.2 | 1931.1 | 1933.2 | 1935.2 | 1929.1 |
| 7.5° | 1986.5 | 1990.6 | 1988.6 | 1990.6 | 1992.7 | 1990.6 | 1990.6 | 1988.6 | 1992.7 | 1990.6 | 1986.5 |
| 10° | 2058.4 | 2062.5 | 2060.4 | 2064.5 | 2066.6 | 2068.6 | 2068.6 | 2064.5 | 2062.5 | 2062.5 | 2060.4 |
| 12.5° | 2144.6 | 2144.6 | 2144.6 | 2150.7 | 2154.8 | 2158.9 | 2156.9 | 2152.8 | 2146.6 | 2148.7 | 2140.5 |
| 15° | 2239.0 | 2243.1 | 2243.1 | 2245.1 | 2255.4 | 2257.4 | 2255.4 | 2249.2 | 2247.2 | 2243.1 | 2239.0 |
| 17.5° | 2343.6 | 2345.7 | 2347.7 | 2349.8 | 2362.1 | 2368.3 | 2360.0 | 2349.8 | 2349.8 | 2347.7 | 2347.7 |
| 20° | 2452.4 | 2450.3 | 2454.4 | 2458.5 | 2466.8 | 2472.9 | 2470.9 | 2460.6 | 2452.4 | 2458.5 | 2456.5 |
| 22.5° | 2553.0 | 2555.0 | 2557.1 | 2563.2 | 2577.6 | 2579.6 | 2573.5 | 2565.3 | 2555.0 | 2557.1 | 2557.1 |
| 25° | 2647.4 | 2649.4 | 2653.5 | 2661.7 | 2678.1 | 2688.4 | 2680.2 | 2667.9 | 2653.5 | 2653.5 | 2655.6 |
| 27.5° | 2743.8 | 2745.9 | 2747.9 | 2762.3 | 2782.8 | 2795.1 | 2789.0 | 2768.4 | 2752.0 | 2747.9 | 2741.8 |
| 30° | 2850.5 | 2850.5 | 2854.6 | 2873.1 | 2899.8 | 2914.1 | 2905.9 | 2881.3 | 2856.7 | 2852.6 | 2852.6 |
| 32.5° | 2986.0 | 2977.8 | 2983.9 | 3008.5 | 3037.3 | 3053.7 | 3047.5 | 3018.8 | 2988.0 | 2981.9 | 2981.9 |
| 35° | 3148.1 | 3144.0 | 3148.1 | 3176.8 | 3211.7 | 3236.3 | 3222.0 | 3195.3 | 3162.5 | 3156.3 | 3152.2 |
| 37.5° | 3341.0 | 3343.1 | 3355.4 | 3388.2 | 3435.4 | 3466.2 | 3451.8 | 3408.7 | 3369.7 | 3369.7 | 3369.7 |
| 40° | 3585.2 | 3589.3 | 3613.9 | 3663.2 | 3730.9 | 3757.6 | 3741.2 | 3687.8 | 3642.7 | 3626.3 | 3630.4 |
| 42.5° | 3917.7 | 3915.6 | 3954.6 | 4016.2 | 4096.2 | 4135.2 | 4108.5 | 4051.1 | 3985.4 | 3958.7 | 3960.8 |
| 45° | 4309.6 | 4338.4 | 4379.4 | 4457.4 | 4558.0 | 4625.7 | 4578.5 | 4514.9 | 4416.4 | 4377.4 | 4375.3 |
| 47.5° | 4783.7 | 4814.5 | 4865.8 | 4995.1 | 5116.2 | 5198.3 | 5161.3 | 5056.6 | 4915.0 | 4859.6 | 4839.1 |
| 50° | 5323.4 | 5362.4 | 5428.1 | 5594.3 | 5766.7 | 5859.1 | 5793.4 | 5655.9 | 5504.0 | 5419.9 | 5399.4 |
| 52.5° | 5930.9 | 5943.2 | 6041.7 | 6242.8 | 6456.3 | 6569.1 | 6495.2 | 6331.1 | 6136.1 | 6058.1 | 6000.7 |
| 55° | 6604.0 | 6614.3 | 6727.1 | 6954.9 | 7197.1 | 7330.5 | 7236.1 | 7028.8 | 6848.2 | 6712.8 | 6725.1 |
| 57.5° | 7227.9 | 7258.7 | 7424.9 | 7691.7 | 7976.9 | 8139.1 | 8036.5 | 7816.9 | 7628.1 | 7474.2 | 7492.6 |
| 60° | 7894.9 | 7927.7 | 8102.1 | 8420.2 | 8806.0 | 9021.5 | 8888.1 | 8652.1 | 8457.2 | 8311.5 | 8293.0 |
| 62.5° | 8602.9 | 8621.3 | 8812.2 | 9097.5 | 9590.0 | 9936.8 | 9809.6 | 9548.9 | 9321.1 | 9177.5 | 9163.1 |
| 65° | 9257.5 | 9282.1 | 9444.3 | 9756.2 | 10263.1 | 10770.0 | 10698.2 | 10337.0 | 10029.2 | 9821.9 | 9793.2 |
| 67.5° | 9495.6 | 9512.0 | 9739.8 | 10176.9 | 10759.7 | 11260.5 | 11281.0 | 10712.5 | 10265.2 | 10012.7 | 10006.6 |
| 70° | 9216.5 | 9228.8 | 9520.2 | 10039.4 | 10782.3 | 11198.9 | 11125.0 | 10554.5 | 10004.5 | 9694.6 | 9663.9 |
| 72.5° | 8590.6 | 8592.6 | 8859.4 | 9300.6 | 10045.6 | 10386.2 | 10072.3 | 9758.3 | 9189.8 | 8957.9 | 8896.3 |
| 75° | 7451.6 | 7453.6 | 7638.3 | 7931.8 | 8463.3 | 8777.3 | 8420.2 | 8132.9 | 7798.4 | 7660.9 | 7589.1 |
| 77.5° | 5124.4 | 5155.2 | 5346.0 | 5684.6 | 6267.5 | 6614.3 | 6146.4 | 5625.1 | 5421.9 | 5305.0 | 5235.2 |
| 80° | 2466.8 | 2514.0 | 2733.5 | 3068.1 | 3677.6 | 4231.7 | 3655.0 | 3012.6 | 2616.6 | 2294.4 | 2351.8 |
| 82.5° | 658.8 | 667.0 | 855.8 | 1229.3 | 1713.6 | 2011.2 | 1633.6 | 1143.1 | 720.3 | 484.3 | 443.3 |
| 85° | 174.4 | 184.7 | 258.6 | 355.0 | 539.7 | 687.5 | 525.4 | 334.5 | 254.5 | 188.8 | 172.4 |
| 87.5° | 47.2 | 55.4 | 90.3 | 108.8 | 135.4 | 108.8 | 135.4 | 117.0 | 112.9 | 59.5 | 43.1 |
| 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)