

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: P157505

Luminaire Tested: **VTS-F09-LED-E1-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157505
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-F09-LED-E1-5WQ
Description: VENTUS LED SITE LUMINAIRE
(9) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

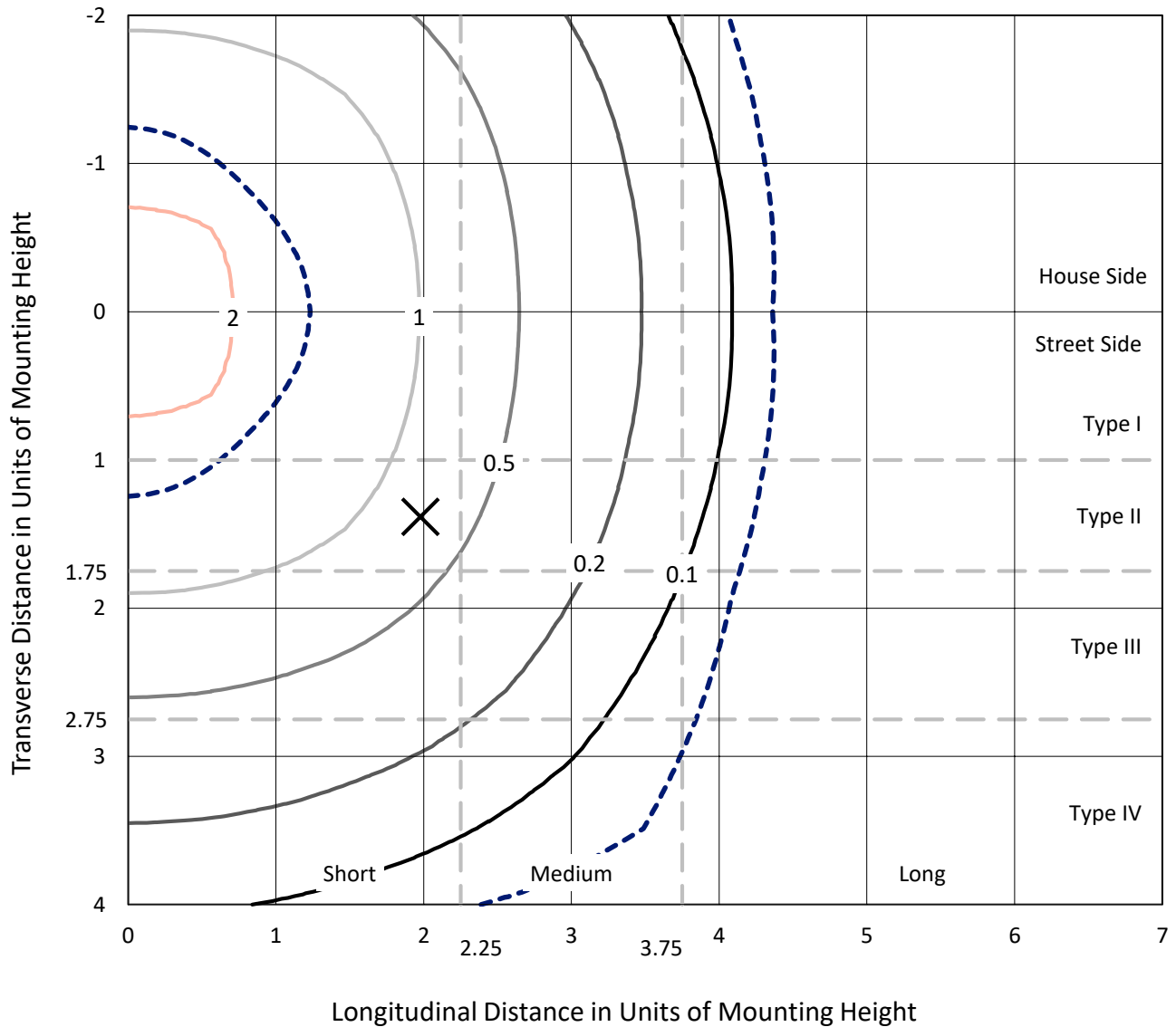
Lumens per Lamp: N/A
Luminaire Lumens: 23459.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 234.8
Input Voltage (V): NR
Input Current (A_{in}): 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

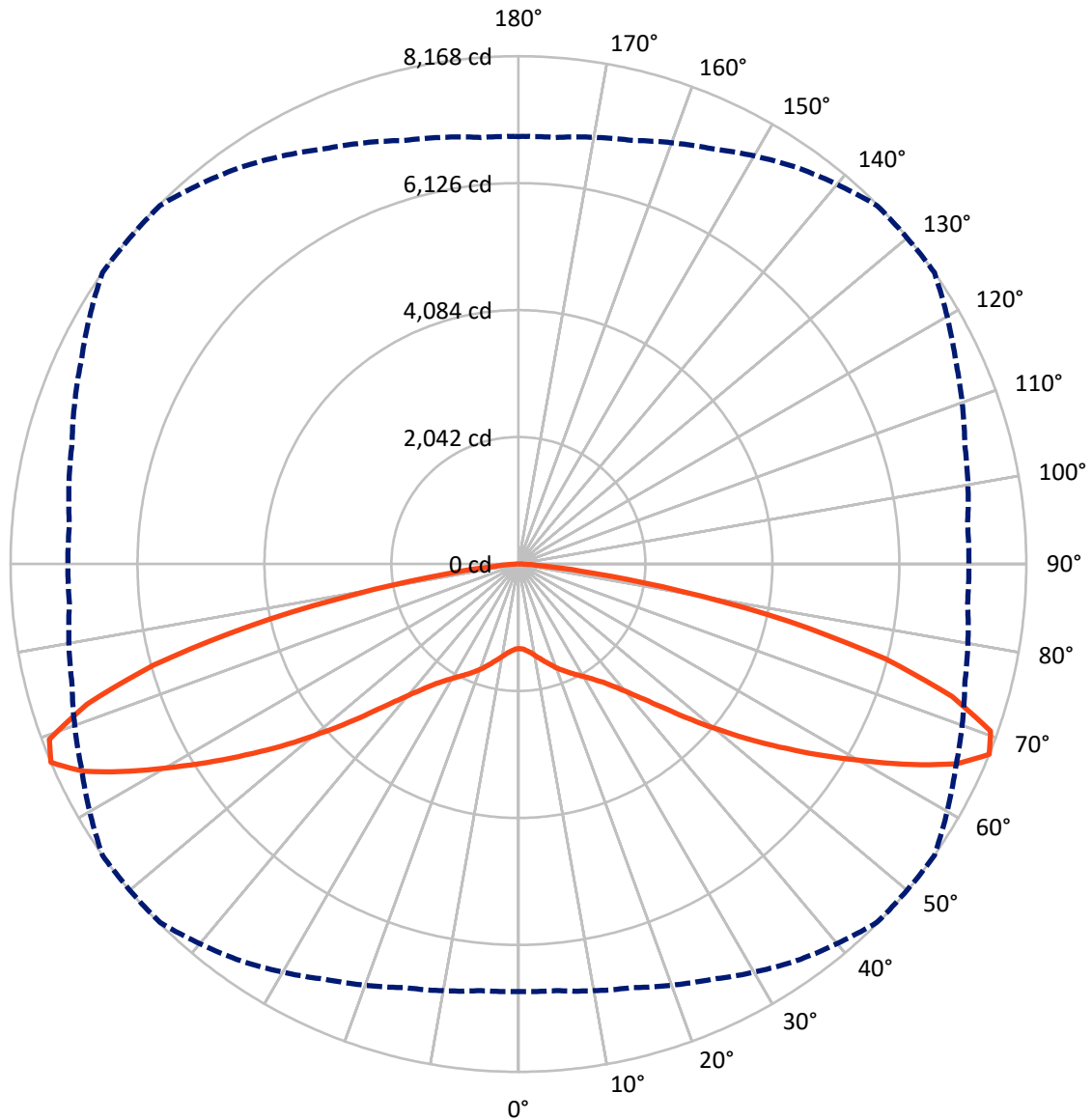
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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 | 11729.7 | 0.0 | 11729.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11729.7 | 0.0 | 11729.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23459.3 | 0.0 | 23459.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 136.6 | 0.6 |
| 10°-20° | 466.8 | 2.0 |
| 20°-30° | 897.5 | 3.8 |
| 30°-40° | 1470.2 | 6.3 |
| 40°-50° | 2555.9 | 10.9 |
| 50°-60° | 4562.1 | 19.4 |
| 60°-70° | 7043.7 | 30.0 |
| 70°-80° | 5701.9 | 24.3 |
| 80°-90° | 624.6 | 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° | 23459.3 | 100.0 |
| 0°-180° | 23459.3 | 100.0 |



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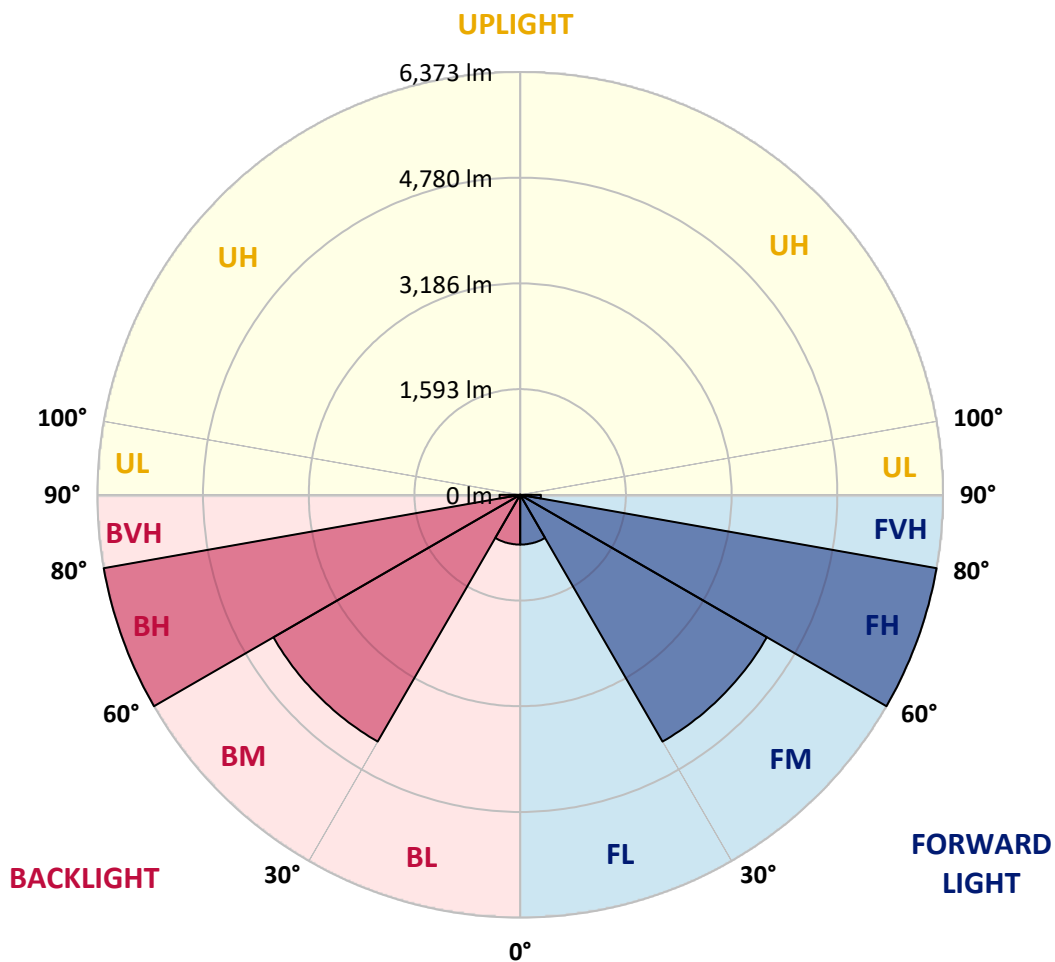
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 750.4 | 3.2 | | | |
| FM | (30°-60°) | 4294.2 | 18.3 | | | |
| FH | (60°-80°) | 6372.8 | 27.2 | | | G3/7500 |
| FVH | (80°-90°) | 312.3 | 1.3 | | | G3/500 |
| BL | (0°-30°) | 750.4 | 3.2 | B2/1000 | | |
| BM | (30°-60°) | 4294.2 | 18.3 | B3/5000 | | |
| BH | (60°-80°) | 6372.8 | 27.2 | B5 | | G3/7500 |
| BVH | (80°-90°) | 312.3 | 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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1361.1 | 1361.1 | 1361.1 | 1361.1 | 1361.1 | 1361.1 | 1361.1 | 1361.1 | 1361.1 | 1361.1 | 1361.1 |
| 2.5° | 1370.0 | 1371.5 | 1370.0 | 1370.0 | 1368.6 | 1368.6 | 1368.6 | 1370.0 | 1370.0 | 1373.0 | 1371.5 |
| 5° | 1398.3 | 1399.8 | 1396.8 | 1399.8 | 1399.8 | 1401.2 | 1399.8 | 1398.3 | 1399.8 | 1401.2 | 1396.8 |
| 7.5° | 1438.4 | 1441.4 | 1439.9 | 1441.4 | 1442.9 | 1441.4 | 1441.4 | 1439.9 | 1442.9 | 1441.4 | 1438.4 |
| 10° | 1490.4 | 1493.4 | 1491.9 | 1494.9 | 1496.3 | 1497.8 | 1497.8 | 1494.9 | 1493.4 | 1493.4 | 1491.9 |
| 12.5° | 1552.8 | 1552.8 | 1552.8 | 1557.3 | 1560.2 | 1563.2 | 1561.7 | 1558.8 | 1554.3 | 1555.8 | 1549.8 |
| 15° | 1621.2 | 1624.1 | 1624.1 | 1625.6 | 1633.1 | 1634.5 | 1633.1 | 1628.6 | 1627.1 | 1624.1 | 1621.2 |
| 17.5° | 1696.9 | 1698.4 | 1699.9 | 1701.4 | 1710.3 | 1714.8 | 1708.8 | 1701.4 | 1701.4 | 1699.9 | 1699.9 |
| 20° | 1775.7 | 1774.2 | 1777.2 | 1780.2 | 1786.1 | 1790.6 | 1789.1 | 1781.6 | 1775.7 | 1780.2 | 1778.7 |
| 22.5° | 1848.5 | 1850.0 | 1851.5 | 1855.9 | 1866.3 | 1867.8 | 1863.4 | 1857.4 | 1850.0 | 1851.5 | 1851.5 |
| 25° | 1916.9 | 1918.4 | 1921.3 | 1927.3 | 1939.2 | 1946.6 | 1940.6 | 1931.7 | 1921.3 | 1921.3 | 1922.8 |
| 27.5° | 1986.7 | 1988.2 | 1989.7 | 2000.1 | 2014.9 | 2023.9 | 2019.4 | 2004.5 | 1992.7 | 1989.7 | 1985.2 |
| 30° | 2064.0 | 2064.0 | 2066.9 | 2080.3 | 2099.6 | 2110.0 | 2104.1 | 2086.3 | 2068.4 | 2065.5 | 2065.5 |
| 32.5° | 2162.0 | 2156.1 | 2160.6 | 2178.4 | 2199.2 | 2211.1 | 2206.6 | 2185.8 | 2163.5 | 2159.1 | 2159.1 |
| 35° | 2279.4 | 2276.5 | 2279.4 | 2300.2 | 2325.5 | 2343.3 | 2332.9 | 2313.6 | 2289.8 | 2285.4 | 2282.4 |
| 37.5° | 2419.1 | 2420.6 | 2429.5 | 2453.3 | 2487.5 | 2509.8 | 2499.4 | 2468.2 | 2439.9 | 2439.9 | 2439.9 |
| 40° | 2595.9 | 2598.9 | 2616.7 | 2652.4 | 2701.4 | 2720.8 | 2708.9 | 2670.2 | 2637.6 | 2625.7 | 2628.6 |
| 42.5° | 2836.7 | 2835.2 | 2863.4 | 2908.0 | 2965.9 | 2994.2 | 2974.9 | 2933.3 | 2885.7 | 2866.4 | 2867.9 |
| 45° | 3120.5 | 3141.3 | 3171.0 | 3227.5 | 3300.3 | 3349.3 | 3315.1 | 3269.1 | 3197.8 | 3169.5 | 3168.0 |
| 47.5° | 3463.7 | 3486.0 | 3523.2 | 3616.8 | 3704.5 | 3763.9 | 3737.2 | 3661.4 | 3558.8 | 3518.7 | 3503.9 |
| 50° | 3854.5 | 3882.8 | 3930.3 | 4050.7 | 4175.5 | 4242.4 | 4194.8 | 4095.3 | 3985.3 | 3924.4 | 3909.5 |
| 52.5° | 4294.4 | 4303.3 | 4374.6 | 4520.2 | 4674.8 | 4756.5 | 4703.0 | 4584.1 | 4443.0 | 4386.5 | 4344.9 |
| 55° | 4781.8 | 4789.2 | 4870.9 | 5035.9 | 5211.2 | 5307.8 | 5239.4 | 5089.4 | 4958.6 | 4860.5 | 4869.4 |
| 57.5° | 5233.5 | 5255.8 | 5376.1 | 5569.3 | 5775.9 | 5893.3 | 5819.0 | 5660.0 | 5523.3 | 5411.8 | 5425.2 |
| 60° | 5716.4 | 5740.2 | 5866.5 | 6096.8 | 6376.2 | 6532.2 | 6435.6 | 6264.7 | 6123.6 | 6018.1 | 6004.7 |
| 62.5° | 6229.1 | 6242.5 | 6380.6 | 6587.2 | 6943.8 | 7194.9 | 7102.8 | 6914.1 | 6749.2 | 6645.1 | 6634.7 |
| 65° | 6703.1 | 6720.9 | 6838.3 | 7064.2 | 7431.2 | 7798.2 | 7746.2 | 7484.7 | 7261.8 | 7111.7 | 7090.9 |
| 67.5° | 6875.5 | 6887.4 | 7052.3 | 7368.8 | 7790.8 | 8153.4 | 8168.2 | 7756.6 | 7432.7 | 7249.9 | 7245.5 |
| 70° | 6673.4 | 6682.3 | 6893.3 | 7269.2 | 7807.2 | 8108.8 | 8055.3 | 7642.2 | 7244.0 | 7019.6 | 6997.3 |
| 72.5° | 6220.2 | 6221.7 | 6414.8 | 6734.3 | 7273.7 | 7520.4 | 7293.0 | 7065.7 | 6654.1 | 6486.1 | 6441.6 |
| 75° | 5395.5 | 5397.0 | 5530.7 | 5743.2 | 6128.0 | 6355.4 | 6096.8 | 5888.8 | 5646.6 | 5547.0 | 5495.0 |
| 77.5° | 3710.4 | 3732.7 | 3870.9 | 4116.1 | 4538.1 | 4789.2 | 4450.4 | 4073.0 | 3925.9 | 3841.2 | 3790.6 |
| 80° | 1786.1 | 1820.3 | 1979.3 | 2221.5 | 2662.8 | 3064.0 | 2646.5 | 2181.4 | 1894.6 | 1661.3 | 1702.9 |
| 82.5° | 477.0 | 482.9 | 619.6 | 890.1 | 1240.8 | 1456.2 | 1182.8 | 827.7 | 521.6 | 350.7 | 321.0 |
| 85° | 126.3 | 133.7 | 187.2 | 257.1 | 390.8 | 497.8 | 380.4 | 242.2 | 184.3 | 136.7 | 124.8 |
| 87.5° | 34.2 | 40.1 | 65.4 | 78.8 | 98.1 | 78.8 | 98.1 | 84.7 | 81.7 | 43.1 | 31.2 |
| 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)