

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: INVUE

Report Number: P147144

Luminaire Tested: **VXM-F05-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147144  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXM-F05-LED-E1-5MQ-7030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (35) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12153.5 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 133.3  
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

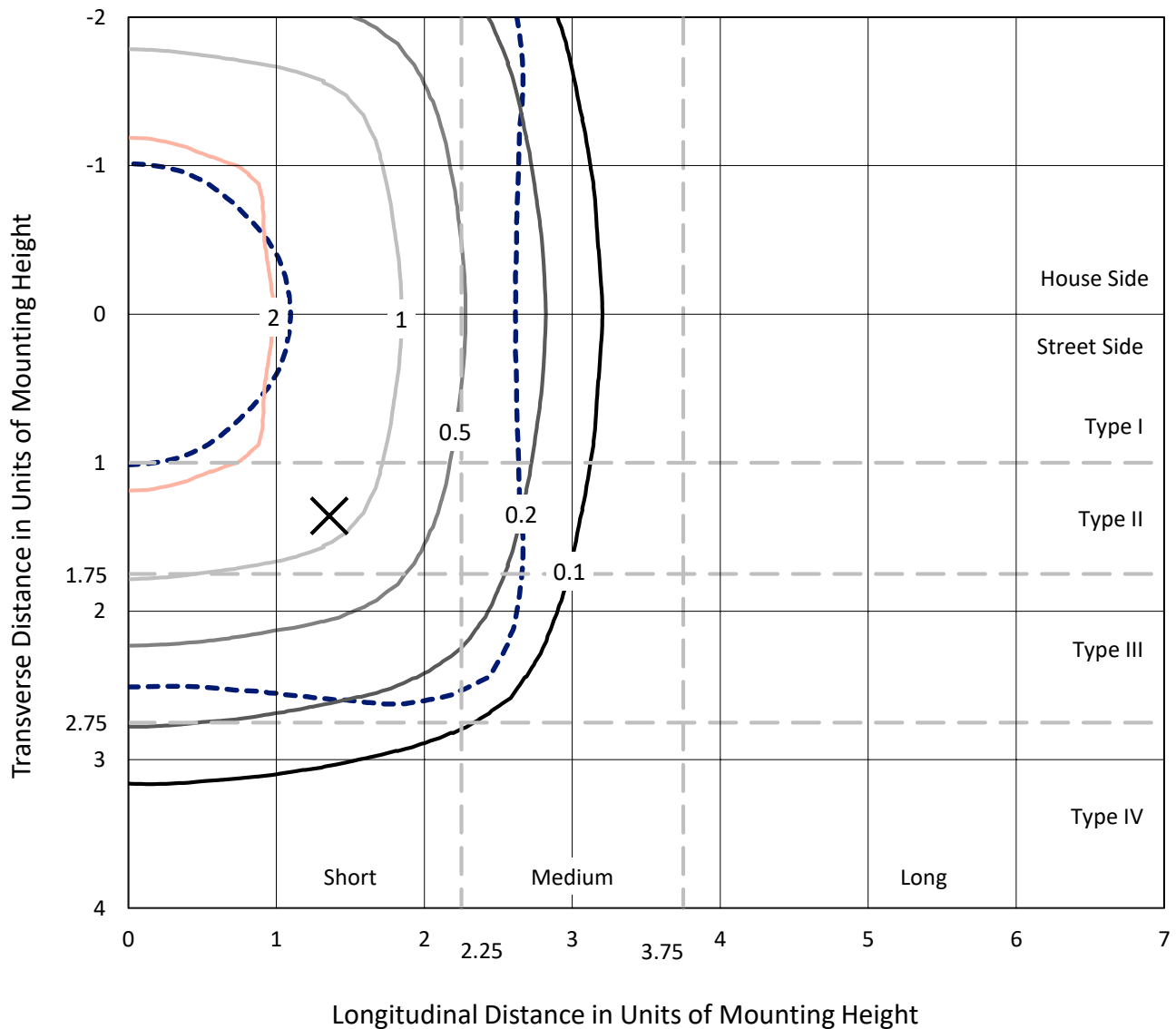


REPORT NUMBER: P147144

CATALOG NUMBER: VXM-F05-LED-E1-5MQ-7030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

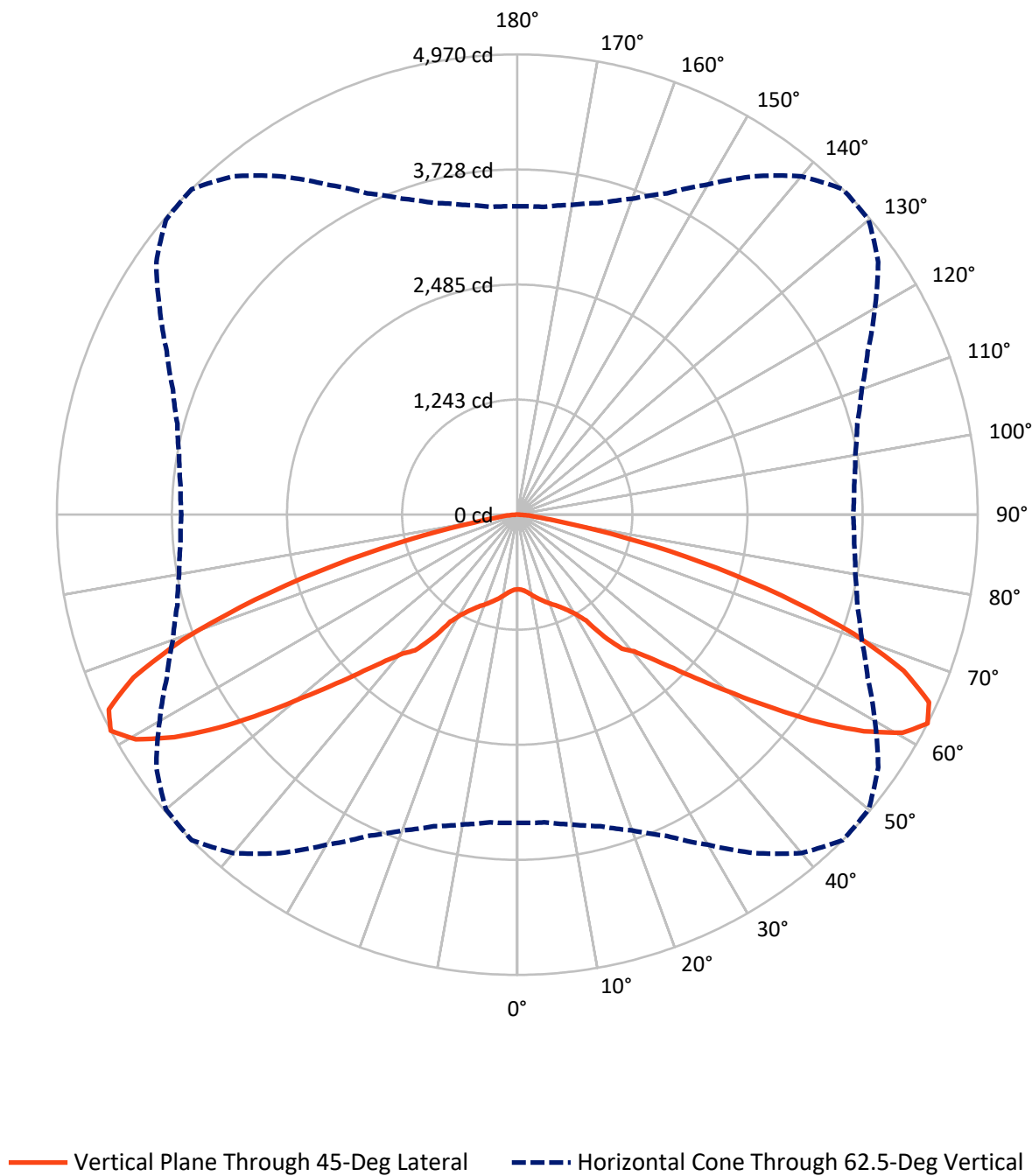


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc  
Type V - Short - Full Cutoff

REPORT NUMBER: P147144

CATALOG NUMBER: VXM-F05-LED-E1-5MQ-7030

## Luminous Intensity Polar Plot



REPORT NUMBER: P147144

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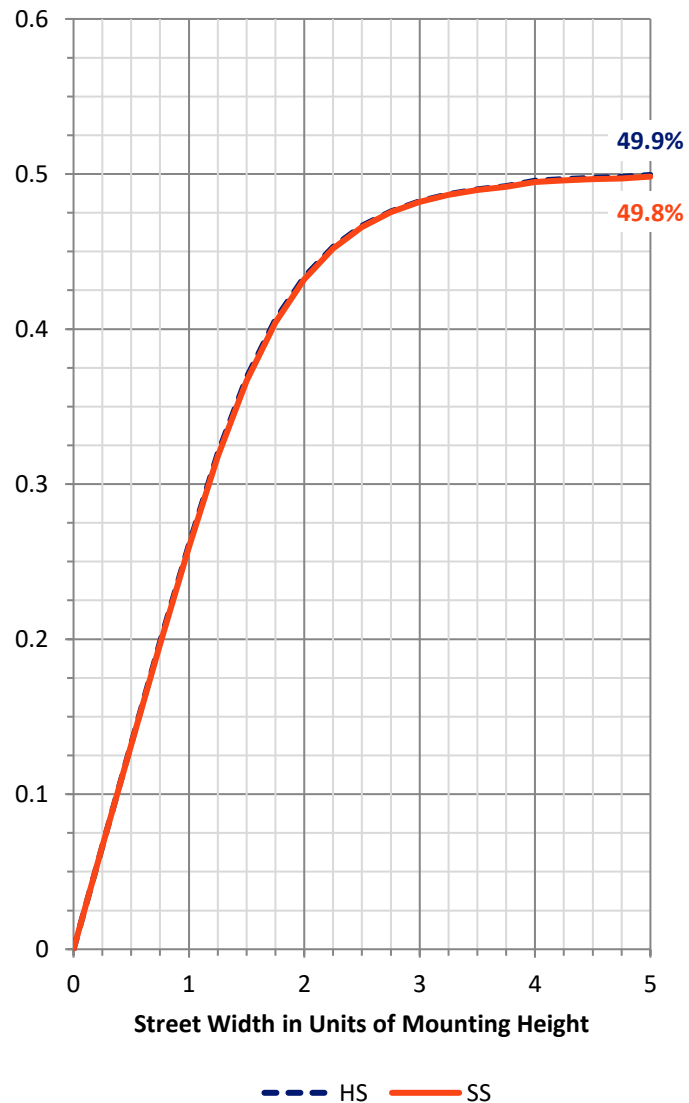
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6076.8   | 0.0    | 6076.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6076.8   | 0.0    | 6076.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12153.5  | 0.0    | 12153.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 80.8    | 0.7       |
| 10°-20°   | 273.3   | 2.2       |
| 20°-30°   | 528.4   | 4.3       |
| 30°-40°   | 1023.1  | 8.4       |
| 40°-50°   | 1847.4  | 15.2      |
| 50°-60°   | 3212.3  | 26.4      |
| 60°-70°   | 3646.8  | 30.0      |
| 70°-80°   | 1413.8  | 11.6      |
| 80°-90°   | 127.5   | 1.0       |
| 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°    | 12153.5 | 100.0     |
| 0°-180°   | 12153.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P147144

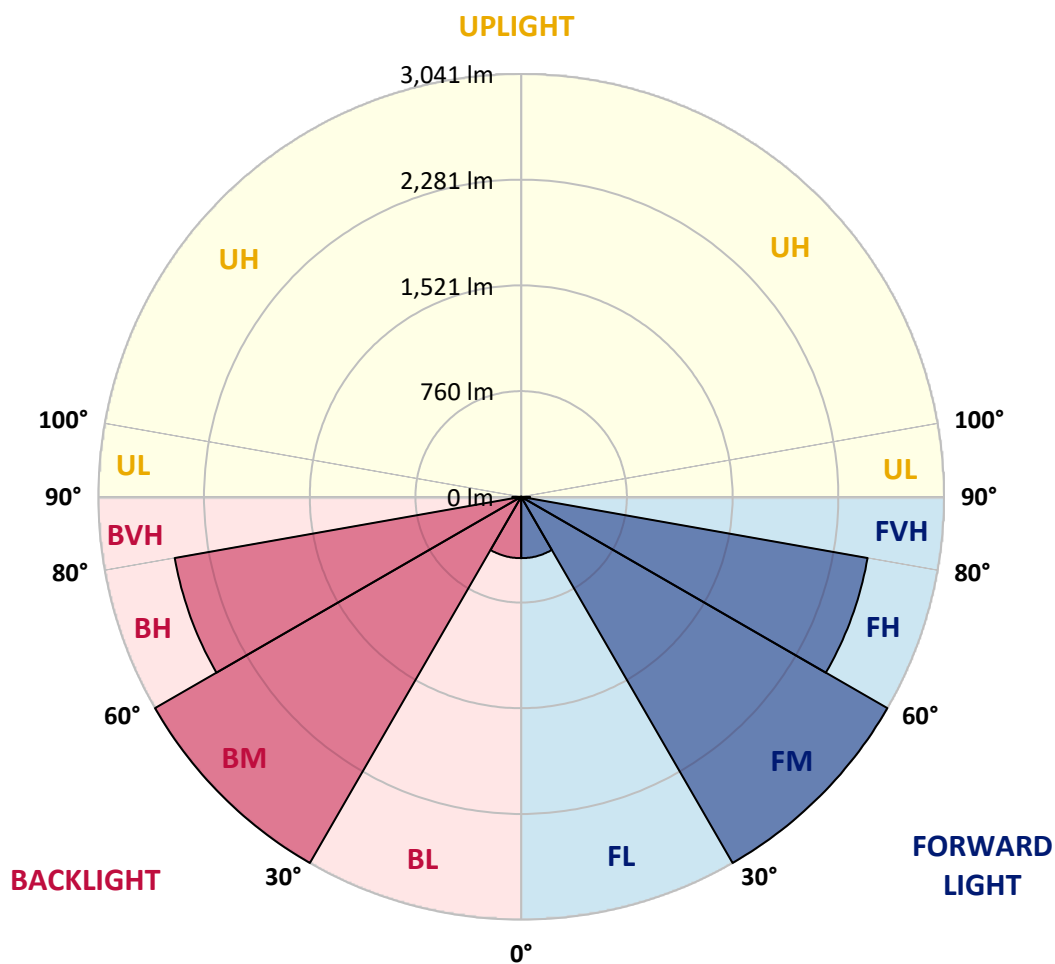
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 441.3  | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 3041.4 | 25.0      |                         |      |         |
| FH   | (60°-80°)   | 2530.3 | 20.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 63.8   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 441.3  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 3041.4 | 25.0      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2530.3 | 20.8      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 63.8   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



REPORT NUMBER: P147144

CATALOG NUMBER: VXM-F05-LED-E1-5MQ-7030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  |
| 2.5°  | 811.8  | 814.3  | 813.7  | 812.4  | 812.4  | 812.4  | 811.8  | 809.9  | 809.2  | 810.6  | 811.8  |
| 5°    | 830.6  | 830.6  | 830.6  | 830.6  | 829.4  | 829.4  | 828.1  | 826.8  | 827.5  | 826.2  | 825.6  |
| 7.5°  | 859.6  | 857.7  | 857.6  | 857.0  | 857.0  | 855.8  | 853.8  | 851.4  | 852.0  | 851.4  | 850.8  |
| 10°   | 893.5  | 894.1  | 892.2  | 894.1  | 891.0  | 890.3  | 887.8  | 886.6  | 886.0  | 884.0  | 884.0  |
| 12.5° | 934.4  | 932.4  | 932.4  | 931.2  | 930.0  | 928.6  | 924.9  | 924.2  | 921.8  | 920.5  | 918.6  |
| 15°   | 972.6  | 972.0  | 969.5  | 967.0  | 966.4  | 965.1  | 960.7  | 958.2  | 957.6  | 954.4  | 951.9  |
| 17.5° | 1011.0 | 1009.8 | 1006.6 | 1005.4 | 1002.8 | 1000.9 | 997.2  | 993.4  | 991.5  | 990.2  | 987.1  |
| 20°   | 1051.8 | 1050.6 | 1047.4 | 1044.9 | 1041.8 | 1039.2 | 1033.6 | 1030.5 | 1028.6 | 1026.6 | 1024.2 |
| 22.5° | 1102.7 | 1100.2 | 1095.2 | 1090.8 | 1083.9 | 1081.4 | 1073.8 | 1069.4 | 1066.2 | 1063.8 | 1062.5 |
| 25°   | 1158.0 | 1158.6 | 1151.8 | 1146.0 | 1137.9 | 1131.0 | 1121.6 | 1116.6 | 1113.4 | 1110.9 | 1110.2 |
| 27.5° | 1227.2 | 1227.8 | 1221.5 | 1213.3 | 1200.8 | 1193.2 | 1180.6 | 1174.4 | 1172.4 | 1170.0 | 1169.3 |
| 30°   | 1336.4 | 1330.8 | 1320.1 | 1306.9 | 1295.6 | 1279.2 | 1261.0 | 1254.8 | 1248.5 | 1246.6 | 1246.6 |
| 32.5° | 1537.5 | 1534.4 | 1525.6 | 1492.9 | 1477.8 | 1443.9 | 1411.8 | 1393.6 | 1372.9 | 1362.8 | 1356.6 |
| 35°   | 1678.2 | 1677.0 | 1670.1 | 1658.8 | 1649.4 | 1642.4 | 1623.6 | 1620.4 | 1616.7 | 1616.6 | 1621.7 |
| 37.5° | 1782.0 | 1774.4 | 1773.2 | 1775.0 | 1772.5 | 1773.8 | 1788.8 | 1809.6 | 1827.2 | 1836.0 | 1834.7 |
| 40°   | 1935.2 | 1924.6 | 1930.8 | 1926.4 | 1920.8 | 1919.6 | 1924.6 | 1932.8 | 1940.9 | 1940.9 | 1939.0 |
| 42.5° | 2135.7 | 2140.7 | 2143.2 | 2125.0 | 2113.0 | 2109.9 | 2121.8 | 2119.4 | 2127.6 | 2124.4 | 2116.2 |
| 45°   | 2433.6 | 2430.4 | 2426.0 | 2404.0 | 2385.2 | 2370.0 | 2373.2 | 2368.8 | 2369.4 | 2364.4 | 2358.1 |
| 47.5° | 2733.8 | 2744.6 | 2726.3 | 2715.6 | 2694.2 | 2683.6 | 2692.4 | 2684.9 | 2699.3 | 2672.9 | 2660.3 |
| 50°   | 3025.4 | 3033.0 | 3026.6 | 3011.6 | 3011.6 | 3026.6 | 3037.4 | 3051.1 | 3071.2 | 3041.1 | 2995.9 |
| 52.5° | 3264.2 | 3270.5 | 3279.8 | 3292.4 | 3323.2 | 3355.2 | 3400.5 | 3448.9 | 3487.2 | 3481.6 | 3430.0 |
| 55°   | 3410.0 | 3417.5 | 3433.2 | 3476.6 | 3531.8 | 3616.0 | 3718.4 | 3830.9 | 3918.9 | 3961.6 | 3923.9 |
| 57.5° | 3459.0 | 3464.6 | 3507.4 | 3559.4 | 3645.6 | 3770.6 | 3942.2 | 4136.3 | 4305.3 | 4412.7 | 4395.8 |
| 60°   | 3447.6 | 3447.6 | 3491.0 | 3562.6 | 3683.2 | 3849.2 | 4091.7 | 4360.6 | 4619.5 | 4780.3 | 4756.4 |
| 62.5° | 3328.9 | 3335.2 | 3397.4 | 3483.4 | 3629.2 | 3827.8 | 4116.8 | 4460.5 | 4770.2 | 4970.0 | 4950.6 |
| 65°   | 3068.8 | 3073.2 | 3140.4 | 3242.8 | 3405.6 | 3640.5 | 3956.6 | 4337.4 | 4692.4 | 4884.6 | 4848.2 |
| 67.5° | 2648.4 | 2652.8 | 2707.4 | 2823.1 | 2995.2 | 3240.9 | 3582.1 | 4001.2 | 4348.6 | 4500.7 | 4391.4 |
| 70°   | 2106.8 | 2119.4 | 2154.6 | 2277.0 | 2407.8 | 2648.4 | 2962.6 | 3381.6 | 3709.6 | 3853.6 | 3732.9 |
| 72.5° | 1435.7 | 1467.8 | 1510.5 | 1619.2 | 1744.2 | 1944.0 | 2194.2 | 2547.2 | 2810.5 | 2977.0 | 2869.6 |
| 75°   | 808.7  | 853.9  | 867.1  | 949.4  | 1052.4 | 1210.2 | 1393.0 | 1646.2 | 1912.0 | 2047.1 | 1917.6 |
| 77.5° | 349.4  | 386.4  | 402.8  | 441.1  | 521.5  | 587.5  | 698.7  | 869.6  | 1075.0 | 1169.9 | 1014.8 |
| 80°   | 172.2  | 181.0  | 187.9  | 199.8  | 222.4  | 243.8  | 296.6  | 371.4  | 455.6  | 476.9  | 379.5  |
| 82.5° | 133.2  | 139.5  | 151.4  | 160.8  | 166.5  | 172.1  | 177.1  | 187.2  | 195.4  | 199.8  | 188.5  |
| 85°   | 93.6   | 101.8  | 115.0  | 125.7  | 132.0  | 136.4  | 140.8  | 143.9  | 136.4  | 124.4  | 130.6  |
| 87.5° | 24.5   | 32.0   | 44.6   | 48.3   | 54.6   | 57.8   | 56.6   | 58.4   | 52.8   | 38.4   | 42.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P147144

CATALOG NUMBER: VXM-F05-LED-E1-5MQ-7030

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  | 806.8  |
| 2.5°  | 811.2  | 810.6  | 811.2  | 811.2  | 811.2  | 810.6  | 810.6  | 810.5  |
| 5°    | 825.6  | 825.6  | 826.2  | 825.0  | 825.0  | 825.6  | 825.0  | 824.4  |
| 7.5°  | 850.1  | 849.5  | 849.5  | 848.9  | 849.5  | 848.8  | 848.8  | 848.2  |
| 10°   | 882.8  | 881.6  | 882.2  | 880.3  | 880.3  | 879.6  | 879.6  | 879.7  |
| 12.5° | 918.0  | 916.1  | 916.8  | 914.8  | 911.7  | 912.4  | 913.0  | 912.3  |
| 15°   | 951.9  | 950.0  | 948.2  | 946.8  | 945.0  | 945.6  | 945.6  | 945.0  |
| 17.5° | 986.4  | 982.7  | 982.1  | 980.2  | 979.6  | 979.6  | 979.6  | 980.2  |
| 20°   | 1022.3 | 1019.8 | 1019.2 | 1017.3 | 1016.6 | 1018.5 | 1019.2 | 1017.9 |
| 22.5° | 1060.6 | 1059.4 | 1060.6 | 1059.4 | 1061.2 | 1062.5 | 1063.2 | 1061.9 |
| 25°   | 1109.0 | 1107.8 | 1109.6 | 1114.0 | 1116.6 | 1117.8 | 1121.0 | 1119.7 |
| 27.5° | 1171.2 | 1170.0 | 1174.4 | 1180.6 | 1184.4 | 1190.6 | 1193.8 | 1195.1 |
| 30°   | 1251.6 | 1257.2 | 1259.8 | 1272.4 | 1274.9 | 1285.0 | 1284.9 | 1289.3 |
| 32.5° | 1368.5 | 1379.2 | 1398.0 | 1417.5 | 1444.5 | 1464.0 | 1464.0 | 1474.1 |
| 35°   | 1624.8 | 1629.2 | 1643.8 | 1646.8 | 1652.5 | 1658.8 | 1652.5 | 1657.5 |
| 37.5° | 1821.5 | 1802.0 | 1788.2 | 1768.8 | 1756.8 | 1756.8 | 1758.0 | 1756.8 |
| 40°   | 1922.0 | 1914.6 | 1908.2 | 1891.9 | 1889.4 | 1888.8 | 1888.8 | 1891.3 |
| 42.5° | 2101.8 | 2083.6 | 2073.5 | 2059.6 | 2055.2 | 2054.0 | 2053.4 | 2054.6 |
| 45°   | 2335.4 | 2306.0 | 2279.0 | 2265.2 | 2253.2 | 2241.9 | 2245.6 | 2245.6 |
| 47.5° | 2607.6 | 2561.7 | 2517.7 | 2493.8 | 2473.1 | 2463.7 | 2457.4 | 2455.5 |
| 50°   | 2938.7 | 2874.6 | 2818.0 | 2773.4 | 2743.3 | 2742.6 | 2745.8 | 2725.7 |
| 52.5° | 3344.6 | 3243.4 | 3173.0 | 3112.8 | 3084.5 | 3081.3 | 3071.2 | 3060.0 |
| 55°   | 3794.5 | 3674.5 | 3558.2 | 3493.5 | 3456.4 | 3436.4 | 3424.4 | 3405.5 |
| 57.5° | 4258.2 | 4096.7 | 3929.6 | 3825.9 | 3760.6 | 3715.3 | 3691.4 | 3680.7 |
| 60°   | 4615.6 | 4395.2 | 4174.6 | 4008.1 | 3899.4 | 3832.2 | 3790.7 | 3773.7 |
| 62.5° | 4756.4 | 4457.4 | 4174.6 | 3956.0 | 3798.8 | 3705.8 | 3650.0 | 3625.5 |
| 65°   | 4588.7 | 4234.3 | 3912.6 | 3671.4 | 3496.0 | 3392.3 | 3331.4 | 3305.0 |
| 67.5° | 4120.0 | 3807.0 | 3457.0 | 3217.0 | 3036.7 | 2934.3 | 2868.3 | 2848.8 |
| 70°   | 3453.9 | 3134.1 | 2799.8 | 2585.6 | 2424.7 | 2341.2 | 2272.6 | 2264.5 |
| 72.5° | 2595.6 | 2319.8 | 2033.2 | 1856.1 | 1726.6 | 1588.4 | 1553.2 | 1570.8 |
| 75°   | 1663.8 | 1405.6 | 1150.5 | 990.8  | 872.8  | 740.8  | 689.9  | 702.5  |
| 77.5° | 788.0  | 610.1  | 440.4  | 340.6  | 285.9  | 244.4  | 233.8  | 227.5  |
| 80°   | 292.2  | 236.9  | 209.2  | 198.5  | 191.0  | 184.1  | 179.1  | 173.4  |
| 82.5° | 189.1  | 184.8  | 179.1  | 177.1  | 171.5  | 162.8  | 146.4  | 139.5  |
| 85°   | 141.4  | 141.4  | 133.9  | 134.4  | 130.0  | 118.8  | 103.7  | 95.5   |
| 87.5° | 41.4   | 37.0   | 34.0   | 31.4   | 30.8   | 27.6   | 20.1   | 17.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)