

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: P157223

Luminaire Tested: **VTS-F03-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157223  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F03-LED-E1-5MQ-8030  
Description: VENTUS LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

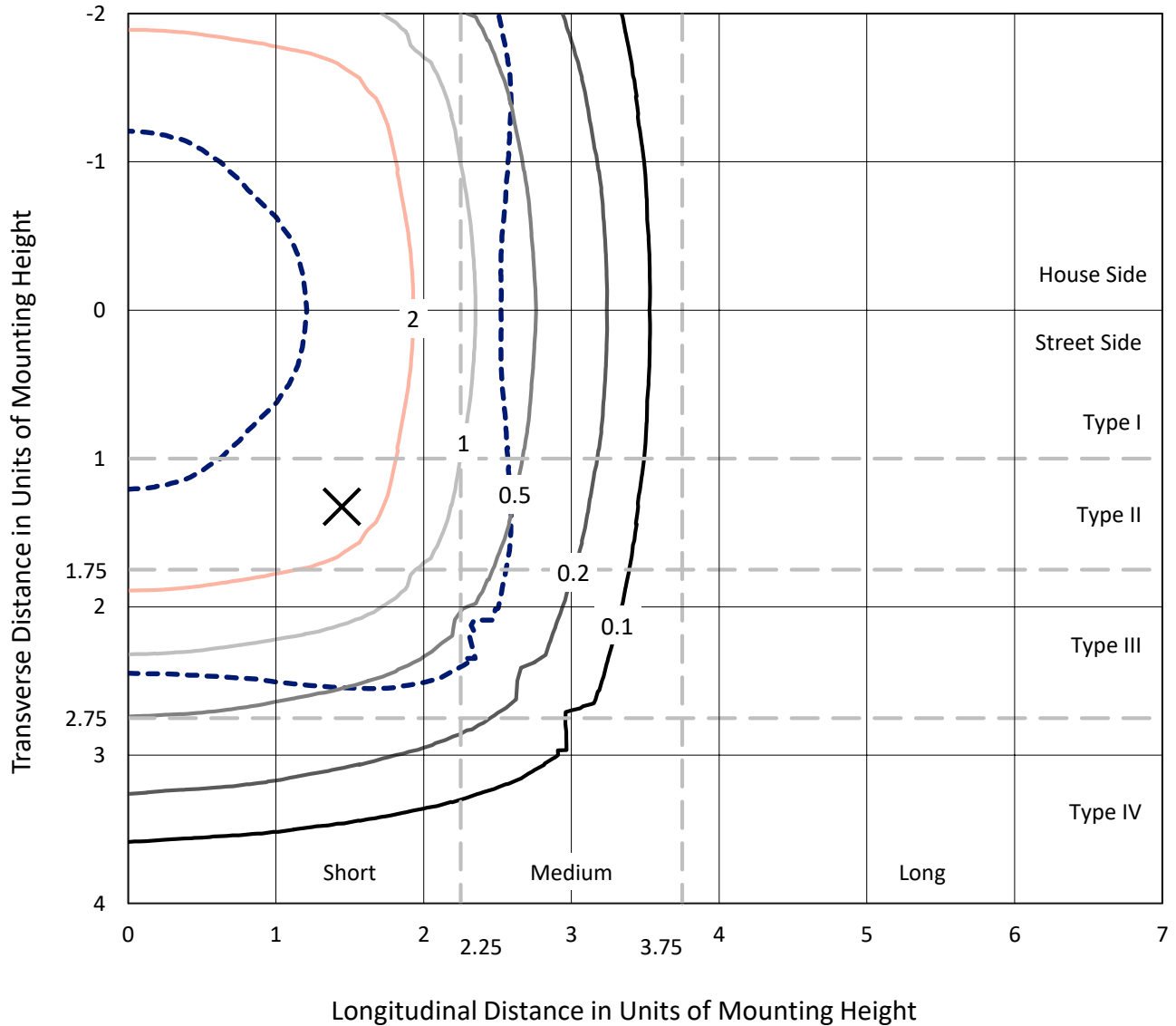
Lumens per Lamp: N/A  
Luminaire Lumens: 6686.3 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P157223  
 CATALOG NUMBER: VTS-F03-LED-E1-5MQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

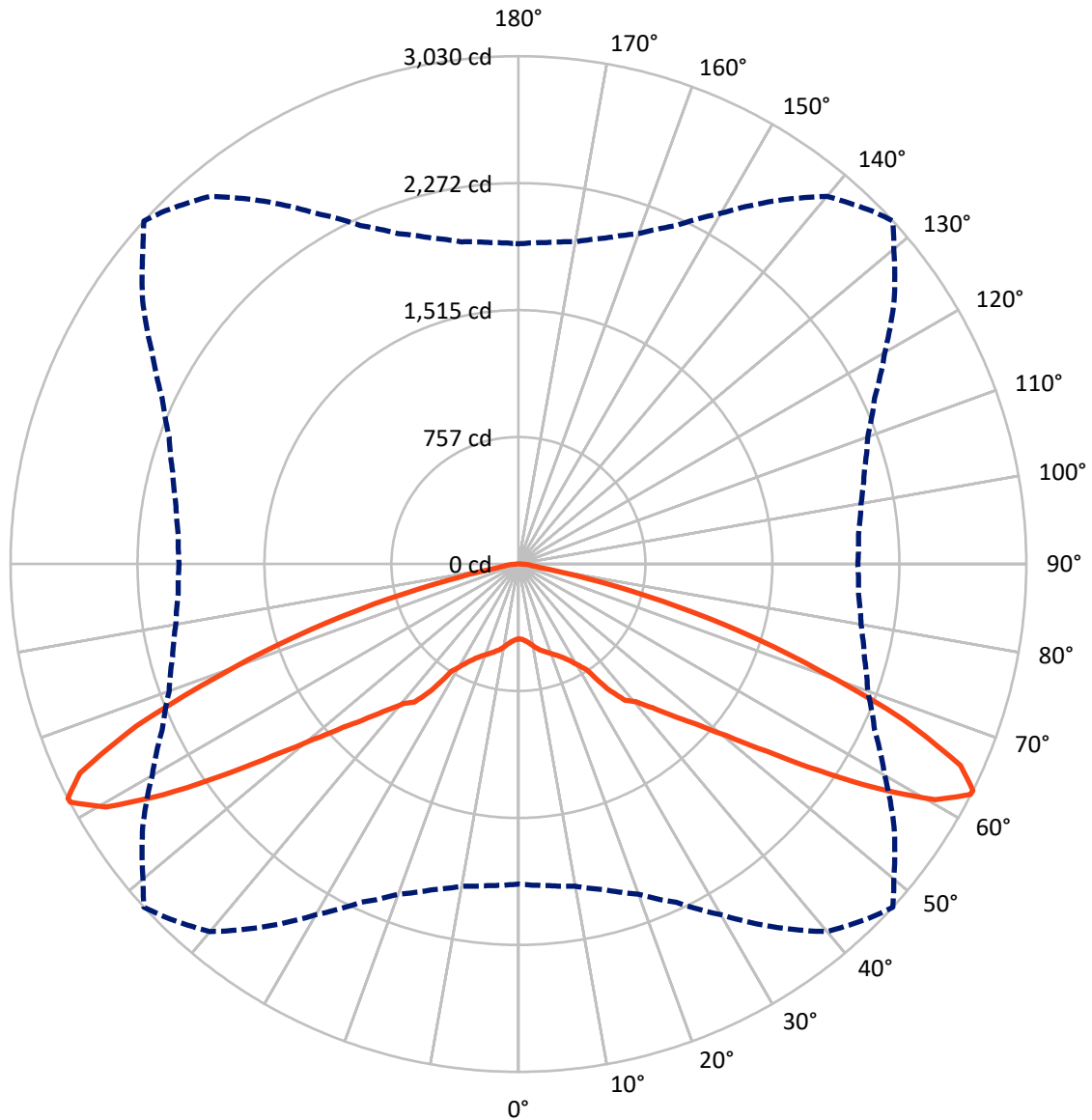
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - Full Cutoff

REPORT NUMBER: P157223  
CATALOG NUMBER: VTS-F03-LED-E1-5MQ-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P157223

CATALOG NUMBER: VTS-F03-LED-E1-5MQ-8030

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3343.1   | 0.0    | 3343.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3343.1   | 0.0    | 3343.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 6686.3   | 0.0    | 6686.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 44.8   | 0.7       |
| 10°-20°   | 152.4  | 2.3       |
| 20°-30°   | 291.5  | 4.4       |
| 30°-40°   | 557.5  | 8.3       |
| 40°-50°   | 964.7  | 14.4      |
| 50°-60°   | 1732.5 | 25.9      |
| 60°-70°   | 2106.7 | 31.5      |
| 70°-80°   | 760.8  | 11.4      |
| 80°-90°   | 75.4   | 1.1       |
| 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°    | 6686.3 | 100.0     |
| 0°-180°   | 6686.3 | 100.0     |



REPORT NUMBER: P157223

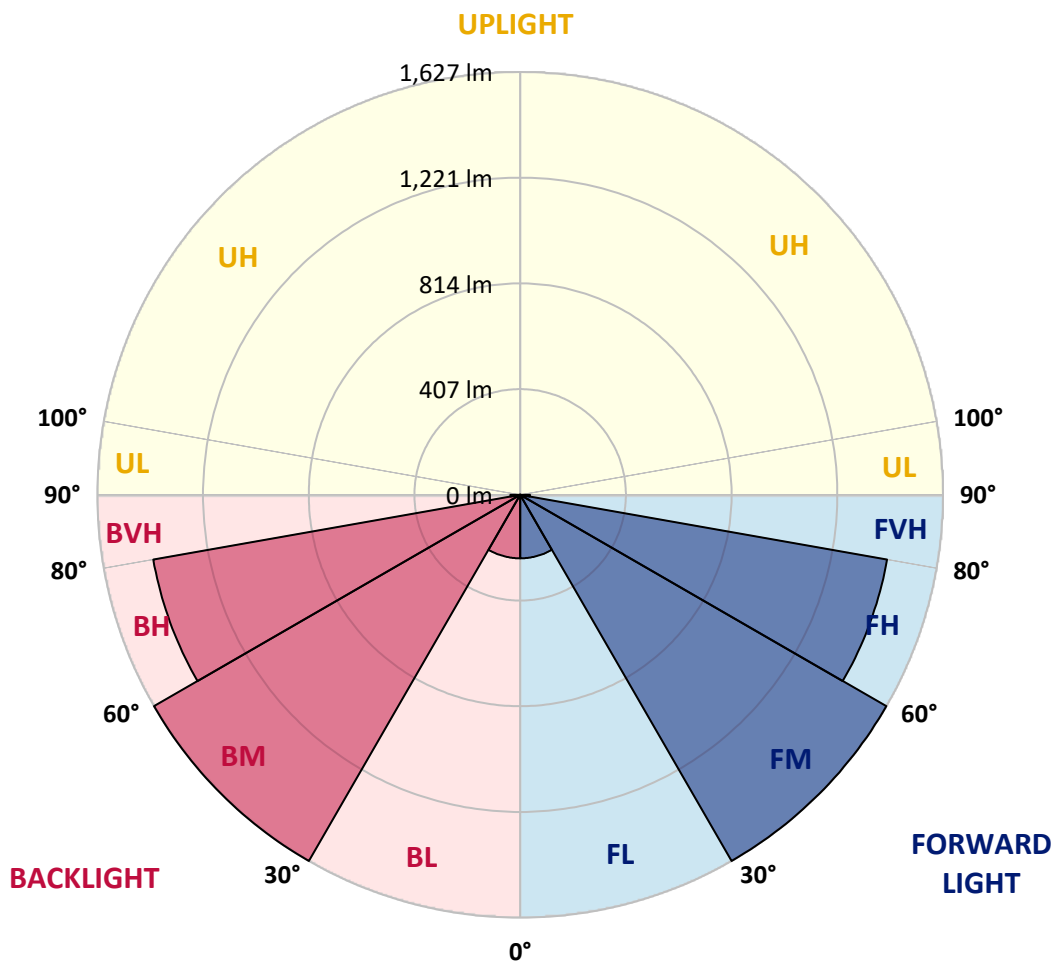
CATALOG NUMBER: VTS-F03-LED-E1-5MQ-8030

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 244.3  | 3.7       |                         |      |         |
| FM (30°-60°)   | 1627.3 | 24.3      |                         |      |         |
| FH (60°-80°)   | 1433.8 | 21.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 37.7   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 244.3  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 1627.3 | 24.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 1433.8 | 21.4      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 37.7   | 0.6       |                         |      | 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





REPORT NUMBER: P157223

CATALOG NUMBER: VTS-F03-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 47.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  |
| 2.5°  | 449.4  | 448.6  | 449.0  | 449.4  | 449.0  | 448.6  | 448.6  | 448.6  | 449.4  | 448.6  | 450.6  |
| 5°    | 458.2  | 457.3  | 457.8  | 457.8  | 457.8  | 456.9  | 456.9  | 456.9  | 456.5  | 456.9  | 461.5  |
| 7.5°  | 474.9  | 473.6  | 473.2  | 474.1  | 473.2  | 472.8  | 472.4  | 472.4  | 471.6  | 471.6  | 477.4  |
| 10°   | 495.0  | 493.3  | 494.1  | 494.5  | 493.3  | 492.5  | 492.5  | 492.5  | 491.2  | 490.8  | 498.3  |
| 12.5° | 517.1  | 516.3  | 516.3  | 515.4  | 515.0  | 514.2  | 513.8  | 514.2  | 512.5  | 512.5  | 520.0  |
| 15°   | 538.4  | 536.8  | 537.2  | 535.9  | 535.1  | 534.3  | 533.8  | 533.4  | 532.6  | 532.6  | 537.2  |
| 17.5° | 558.1  | 556.8  | 556.4  | 555.2  | 553.9  | 552.7  | 551.8  | 551.4  | 550.1  | 550.1  | 554.3  |
| 20°   | 578.6  | 577.3  | 576.5  | 574.4  | 572.3  | 571.0  | 569.4  | 568.5  | 566.9  | 567.3  | 571.9  |
| 22.5° | 602.0  | 599.9  | 598.2  | 596.5  | 592.8  | 590.3  | 588.2  | 586.5  | 585.7  | 585.7  | 591.9  |
| 25°   | 633.3  | 632.1  | 629.6  | 624.1  | 619.5  | 615.8  | 612.4  | 610.8  | 609.1  | 608.3  | 617.9  |
| 27.5° | 671.8  | 670.5  | 667.2  | 661.8  | 655.5  | 649.2  | 645.5  | 642.5  | 640.4  | 639.2  | 653.0  |
| 30°   | 722.8  | 720.7  | 717.8  | 709.0  | 703.6  | 693.9  | 689.8  | 685.6  | 681.0  | 682.2  | 698.5  |
| 32.5° | 822.7  | 819.8  | 810.6  | 801.0  | 784.2  | 771.3  | 757.9  | 747.9  | 738.3  | 737.0  | 754.6  |
| 35°   | 913.4  | 912.2  | 910.5  | 903.8  | 897.5  | 889.6  | 883.3  | 872.9  | 864.1  | 862.0  | 911.3  |
| 37.5° | 962.3  | 965.3  | 962.7  | 961.9  | 961.9  | 965.7  | 977.4  | 989.1  | 997.4  | 1002.5 | 1030.1 |
| 40°   | 1037.2 | 1037.2 | 1034.2 | 1032.6 | 1029.2 | 1034.2 | 1039.3 | 1048.0 | 1051.8 | 1052.2 | 1080.2 |
| 42.5° | 1122.0 | 1122.4 | 1119.5 | 1114.5 | 1112.8 | 1117.4 | 1124.1 | 1132.5 | 1137.5 | 1138.7 | 1171.4 |
| 45°   | 1216.5 | 1215.2 | 1212.7 | 1211.1 | 1212.3 | 1216.5 | 1224.4 | 1240.7 | 1248.3 | 1254.1 | 1289.7 |
| 47.5° | 1318.9 | 1327.3 | 1320.2 | 1321.4 | 1321.4 | 1334.4 | 1352.4 | 1365.7 | 1377.9 | 1389.2 | 1426.8 |
| 50°   | 1453.1 | 1454.4 | 1455.6 | 1459.4 | 1461.9 | 1479.0 | 1501.6 | 1517.5 | 1535.0 | 1549.7 | 1611.1 |
| 52.5° | 1632.5 | 1629.9 | 1636.2 | 1640.4 | 1654.6 | 1663.8 | 1701.4 | 1721.5 | 1745.7 | 1764.6 | 1854.4 |
| 55°   | 1846.9 | 1845.7 | 1854.8 | 1858.2 | 1877.0 | 1899.6 | 1941.4 | 1985.3 | 2026.7 | 2049.7 | 2172.6 |
| 57.5° | 2000.7 | 2004.1 | 2020.0 | 2042.1 | 2078.9 | 2127.0 | 2189.3 | 2286.3 | 2364.9 | 2389.9 | 2525.4 |
| 60°   | 2034.6 | 2045.5 | 2069.3 | 2113.6 | 2176.7 | 2266.2 | 2388.7 | 2537.1 | 2680.9 | 2729.0 | 2856.1 |
| 62.5° | 1939.7 | 1952.3 | 1987.4 | 2040.5 | 2122.8 | 2255.3 | 2432.2 | 2641.6 | 2855.2 | 2962.2 | 3026.2 |
| 63°   | 1909.6 | 1925.1 | 1951.4 | 2012.9 | 2096.5 | 2227.3 | 2415.4 | 2641.2 | 2862.7 | 2979.4 | 3029.5 |
| 65°   | 1768.3 | 1771.2 | 1810.5 | 1872.0 | 1966.0 | 2101.9 | 2291.7 | 2552.6 | 2798.4 | 2933.0 | 2898.3 |
| 67.5° | 1521.7 | 1533.8 | 1566.8 | 1628.7 | 1720.2 | 1861.5 | 2067.6 | 2308.8 | 2525.0 | 2632.4 | 2477.3 |
| 70°   | 1229.5 | 1228.6 | 1269.6 | 1319.3 | 1400.0 | 1524.2 | 1704.8 | 1922.6 | 2094.0 | 2172.1 | 1912.5 |
| 72.5° | 878.3  | 856.6  | 886.7  | 941.8  | 1007.9 | 1107.0 | 1249.9 | 1419.3 | 1572.7 | 1640.4 | 1398.3 |
| 75°   | 400.1  | 394.2  | 421.0  | 475.7  | 542.6  | 630.8  | 748.3  | 894.6  | 1041.8 | 1121.2 | 890.8  |
| 77.5° | 134.6  | 136.3  | 146.7  | 166.4  | 202.3  | 246.6  | 319.8  | 413.4  | 532.6  | 611.2  | 418.0  |
| 80°   | 90.3   | 92.8   | 96.1   | 99.1   | 103.3  | 109.9  | 125.8  | 150.1  | 186.9  | 226.2  | 132.1  |
| 82.5° | 74.0   | 76.9   | 84.4   | 87.8   | 90.3   | 92.4   | 93.6   | 95.3   | 95.3   | 96.1   | 83.6   |
| 85°   | 53.1   | 58.1   | 68.1   | 74.4   | 76.9   | 78.6   | 80.7   | 83.2   | 79.4   | 76.1   | 64.8   |
| 87.5° | 18.4   | 25.1   | 36.8   | 40.6   | 43.5   | 43.9   | 46.8   | 51.8   | 49.3   | 40.1   | 19.6   |
| 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: P157223

CATALOG NUMBER: VTS-F03-LED-E1-5MQ-8030

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  | 446.5  |
| 2.5°  | 448.6  | 448.1  | 448.6  | 449.0  | 449.0  | 449.0  | 449.4  | 449.8  | 449.8  |
| 5°    | 456.9  | 457.3  | 456.9  | 457.3  | 457.3  | 457.8  | 457.8  | 458.6  | 458.6  |
| 7.5°  | 471.1  | 472.0  | 471.6  | 472.4  | 472.4  | 473.2  | 472.8  | 474.1  | 474.1  |
| 10°   | 490.4  | 491.2  | 492.0  | 492.5  | 492.0  | 492.9  | 493.7  | 494.1  | 493.7  |
| 12.5° | 512.1  | 512.5  | 512.1  | 512.9  | 512.9  | 513.8  | 513.8  | 515.0  | 515.0  |
| 15°   | 532.2  | 531.7  | 531.3  | 532.6  | 533.4  | 533.8  | 534.7  | 535.9  | 534.7  |
| 17.5° | 550.1  | 550.6  | 549.7  | 551.0  | 552.7  | 553.9  | 554.7  | 556.4  | 556.0  |
| 20°   | 568.1  | 567.3  | 568.1  | 570.2  | 571.9  | 573.6  | 575.2  | 577.7  | 577.3  |
| 22.5° | 585.7  | 586.5  | 588.6  | 590.3  | 593.2  | 595.7  | 597.8  | 601.1  | 602.4  |
| 25°   | 610.3  | 610.3  | 613.7  | 615.8  | 620.0  | 623.3  | 627.9  | 631.7  | 633.8  |
| 27.5° | 641.7  | 641.7  | 645.5  | 650.1  | 656.3  | 662.2  | 667.2  | 672.2  | 671.4  |
| 30°   | 684.3  | 686.4  | 689.8  | 695.6  | 704.0  | 711.1  | 717.8  | 722.8  | 723.2  |
| 32.5° | 740.4  | 742.9  | 752.9  | 767.9  | 785.5  | 798.9  | 808.9  | 821.0  | 822.7  |
| 35°   | 867.4  | 873.7  | 886.7  | 898.8  | 905.9  | 913.8  | 918.9  | 919.3  | 920.1  |
| 37.5° | 1001.2 | 990.3  | 980.3  | 971.1  | 966.9  | 966.1  | 966.1  | 967.8  | 968.6  |
| 40°   | 1050.1 | 1044.7 | 1040.1 | 1034.2 | 1035.9 | 1035.5 | 1038.4 | 1040.9 | 1042.6 |
| 42.5° | 1133.7 | 1129.5 | 1125.4 | 1117.8 | 1122.0 | 1120.8 | 1124.9 | 1128.7 | 1130.8 |
| 45°   | 1250.4 | 1237.4 | 1228.2 | 1216.1 | 1220.3 | 1217.8 | 1217.8 | 1222.4 | 1223.2 |
| 47.5° | 1379.1 | 1364.1 | 1345.3 | 1330.2 | 1325.2 | 1320.6 | 1324.8 | 1324.8 | 1320.2 |
| 50°   | 1533.4 | 1515.4 | 1493.2 | 1469.0 | 1460.6 | 1456.0 | 1457.7 | 1459.8 | 1446.8 |
| 52.5° | 1742.8 | 1722.7 | 1691.4 | 1654.6 | 1646.7 | 1642.9 | 1642.1 | 1639.1 | 1635.8 |
| 55°   | 2026.7 | 1989.0 | 1950.6 | 1902.1 | 1887.5 | 1883.3 | 1883.7 | 1880.3 | 1888.3 |
| 57.5° | 2361.5 | 2306.3 | 2217.7 | 2158.8 | 2123.6 | 2110.3 | 2098.1 | 2093.1 | 2093.6 |
| 60°   | 2693.0 | 2580.6 | 2448.1 | 2345.2 | 2271.6 | 2224.8 | 2188.0 | 2167.5 | 2161.7 |
| 62.5° | 2906.6 | 2729.8 | 2530.8 | 2364.0 | 2243.2 | 2165.9 | 2107.8 | 2071.0 | 2059.3 |
| 63°   | 2923.4 | 2736.1 | 2523.3 | 2344.4 | 2217.3 | 2136.2 | 2075.2 | 2037.1 | 2024.6 |
| 65°   | 2887.0 | 2673.0 | 2425.1 | 2211.9 | 2072.6 | 1982.8 | 1916.7 | 1880.8 | 1871.2 |
| 67.5° | 2604.4 | 2426.3 | 2173.8 | 1953.5 | 1813.0 | 1721.9 | 1646.2 | 1612.0 | 1601.1 |
| 70°   | 2118.6 | 1996.6 | 1789.6 | 1601.5 | 1470.7 | 1382.9 | 1306.4 | 1278.0 | 1277.5 |
| 72.5° | 1570.6 | 1412.1 | 1288.8 | 1150.9 | 1036.7 | 966.9  | 900.5  | 868.7  | 852.8  |
| 75°   | 1038.8 | 869.1  | 731.2  | 614.9  | 501.2  | 438.5  | 363.7  | 331.5  | 312.7  |
| 77.5° | 523.4  | 387.9  | 278.0  | 192.7  | 149.7  | 122.9  | 112.5  | 107.0  | 106.6  |
| 80°   | 174.3  | 130.8  | 112.5  | 105.3  | 103.3  | 103.7  | 102.4  | 100.3  | 97.8   |
| 82.5° | 96.6   | 101.6  | 102.4  | 99.5   | 99.5   | 97.8   | 96.1   | 88.2   | 84.0   |
| 85°   | 82.8   | 91.1   | 92.0   | 90.3   | 89.9   | 87.4   | 84.4   | 73.6   | 67.3   |
| 87.5° | 51.8   | 59.8   | 58.5   | 52.3   | 57.7   | 53.9   | 51.0   | 33.0   | 24.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)