

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: P157668

Luminaire Tested: **VTS-E04-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157668  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E04-LED-E1-5XQ-8030  
Description: VENTUS LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

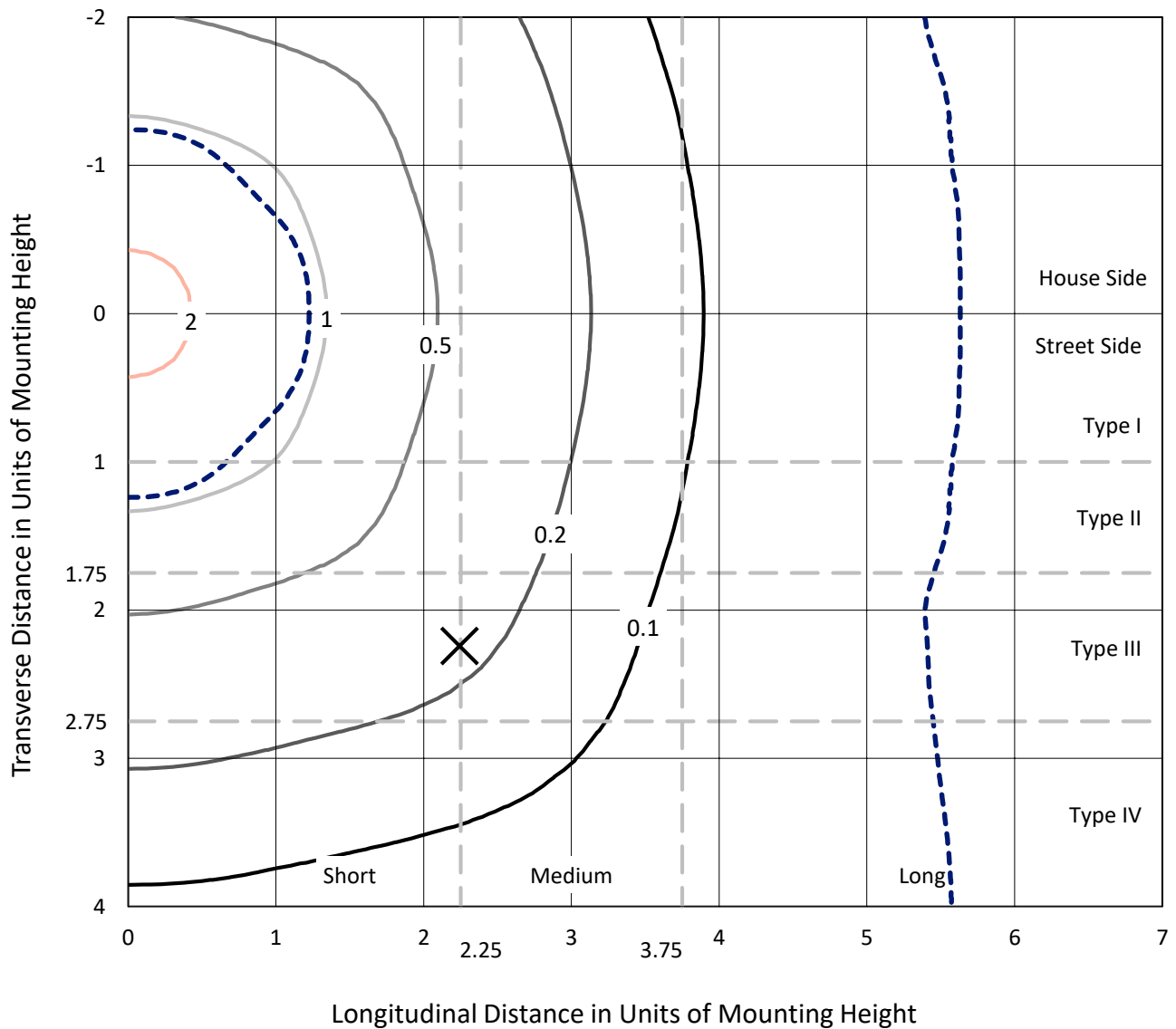
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10677 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U1 - G3  
  
Input Watts (W): 97.2  
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: P157668  
 CATALOG NUMBER: VTS-E04-LED-E1-5XQ-8030

### Iso-Footcandle Lines of Horizontal Illumination

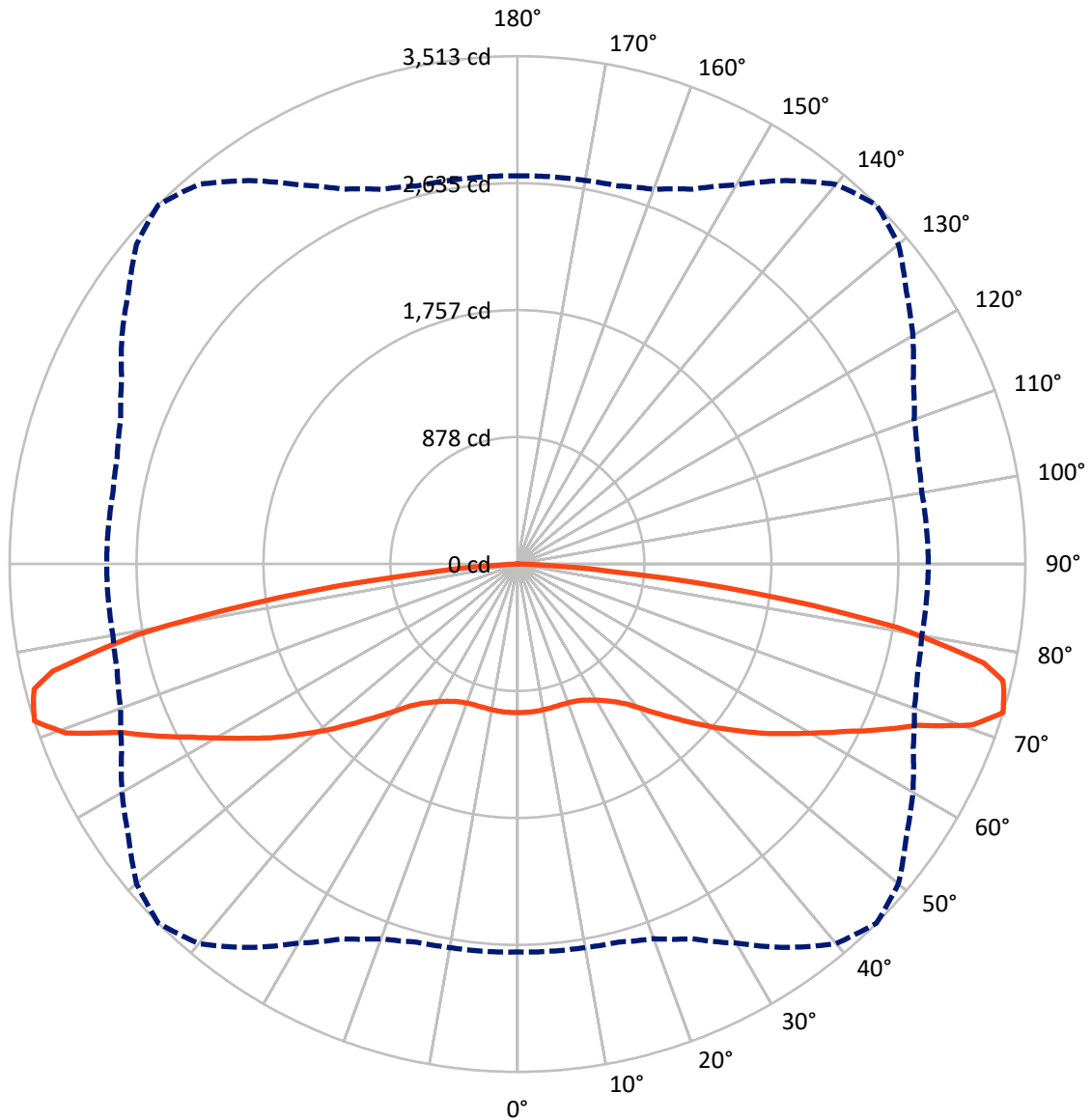
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157668  
CATALOG NUMBER: VTS-E04-LED-E1-5XQ-8030

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P157668

CATALOG NUMBER: VTS-E04-LED-E1-5XQ-8030

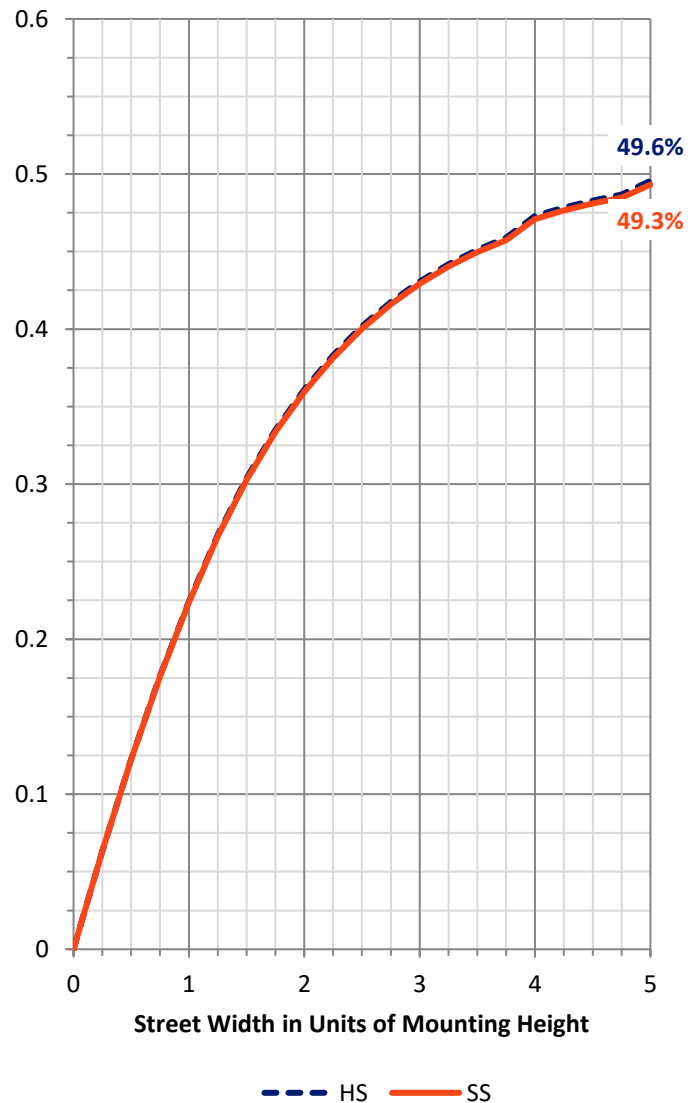
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5335.8   | 2.7    | 5338.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5335.8   | 2.7    | 5338.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10671.6  | 5.4    | 10677.0 |
|                    | % Fixture | 99.9     | 0.1    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 98.0    | 0.9       |
| 10°-20°   | 289.6   | 2.7       |
| 20°-30°   | 484.2   | 4.5       |
| 30°-40°   | 736.0   | 6.9       |
| 40°-50°   | 1165.7  | 10.9      |
| 50°-60°   | 1783.2  | 16.7      |
| 60°-70°   | 2552.0  | 23.9      |
| 70°-80°   | 2920.1  | 27.3      |
| 80°-90°   | 642.7   | 6.0       |
| 90°-100°  | 0.6     | 0.0       |
| 100°-110° | 1.1     | 0.0       |
| 110°-120° | 0.8     | 0.0       |
| 120°-130° | 0.9     | 0.0       |
| 130°-140° | 0.8     | 0.0       |
| 140°-150° | 0.6     | 0.0       |
| 150°-160° | 0.4     | 0.0       |
| 160°-170° | 0.2     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 10671.6 | 99.9      |
| 0°-180°   | 10677.0 | 100.0     |



REPORT NUMBER: P157668

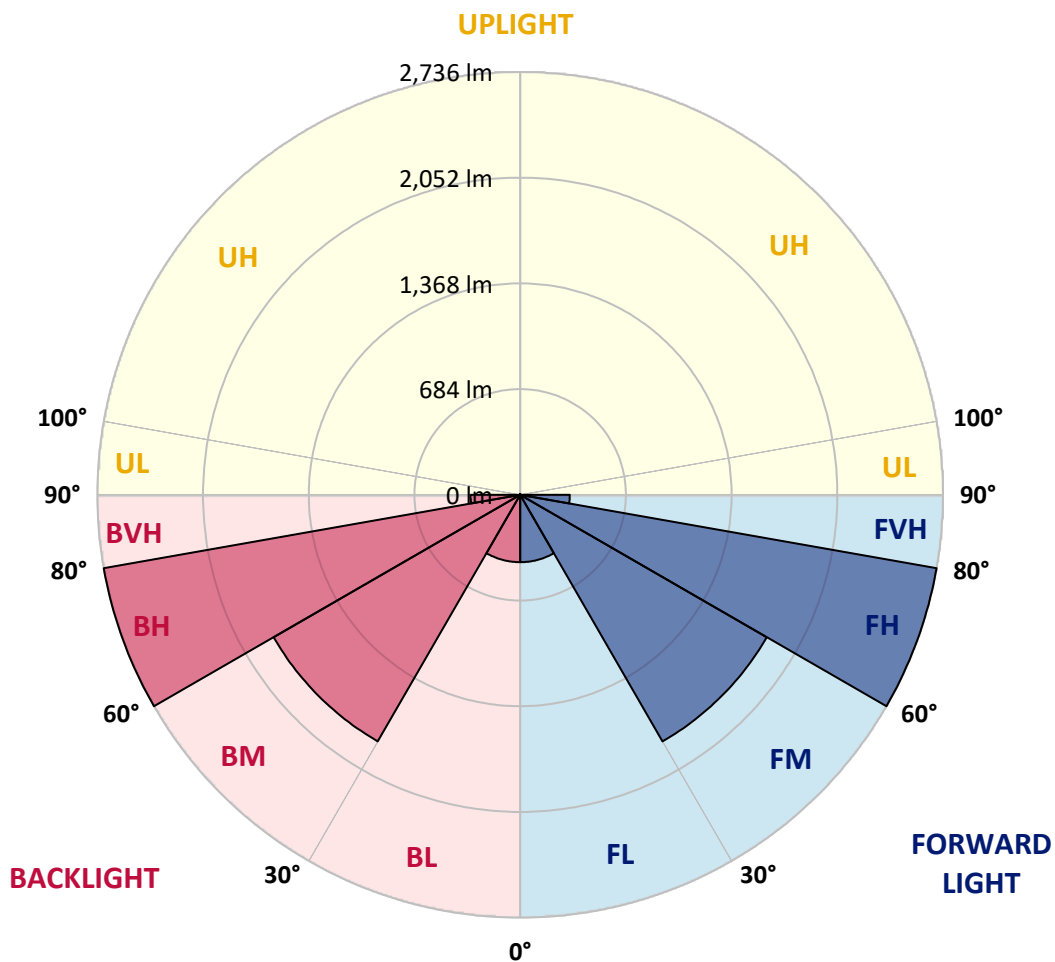
CATALOG NUMBER: VTS-E04-LED-E1-5XQ-8030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 435.9  | 4.1       |                         |       |         |
| FM   | (30°-60°)   | 1842.5 | 17.3      |                         |       |         |
| FH   | (60°-80°)   | 2736.0 | 25.6      |                         |       | G2/5000 |
| FVH  | (80°-90°)   | 321.3  | 3.0       |                         |       | G3/500  |
| BL   | (0°-30°)    | 435.9  | 4.1       | B1/500                  |       |         |
| BM   | (30°-60°)   | 1842.5 | 17.3      | B2/2500                 |       |         |
| BH   | (60°-80°)   | 2736.0 | 25.6      | B4/5000                 |       | G2/5000 |
| BVH  | (80°-90°)   | 321.3  | 3.0       |                         |       | G3/500  |
| UL   | (90°-100°)  | 0.6    | 0.0       |                         | U1/10 |         |
| UH   | (100°-180°) | 2.7    | 0.0       |                         | U1/10 |         |

**BUG Rating: B4-U1-G3**

Type V Short





REPORT NUMBER: P157668

CATALOG NUMBER: VTS-E04-LED-E1-5XQ-8030

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 |
| 2.5°   | 1028.3 | 1027.0 | 1027.6 | 1029.0 | 1028.3 | 1028.3 | 1027.6 | 1027.6 | 1029.0 | 1027.6 | 1028.3 |
| 5°     | 1029.0 | 1027.6 | 1028.3 | 1029.0 | 1028.3 | 1029.0 | 1028.3 | 1028.3 | 1028.3 | 1027.6 | 1029.0 |
| 7.5°   | 1026.3 | 1026.3 | 1027.0 | 1027.0 | 1026.3 | 1027.0 | 1027.0 | 1027.0 | 1026.3 | 1026.3 | 1027.6 |
| 10°    | 1024.9 | 1024.3 | 1024.3 | 1024.9 | 1024.3 | 1024.3 | 1024.9 | 1024.9 | 1023.6 | 1023.6 | 1024.9 |
| 12.5°  | 1022.9 | 1022.2 | 1022.2 | 1022.2 | 1021.6 | 1021.6 | 1022.2 | 1022.2 | 1021.6 | 1020.9 | 1022.9 |
| 15°    | 1021.6 | 1020.9 | 1020.9 | 1020.9 | 1019.5 | 1020.2 | 1020.2 | 1020.2 | 1019.5 | 1018.9 | 1020.9 |
| 17.5°  | 1020.9 | 1020.2 | 1020.2 | 1020.2 | 1019.5 | 1019.5 | 1019.5 | 1019.5 | 1018.9 | 1018.9 | 1020.2 |
| 20°    | 1022.2 | 1022.2 | 1022.2 | 1022.2 | 1021.6 | 1021.6 | 1021.6 | 1022.2 | 1022.2 | 1022.2 | 1023.6 |
| 22.5°  | 1025.6 | 1025.6 | 1026.3 | 1027.0 | 1027.0 | 1028.3 | 1029.0 | 1029.7 | 1029.7 | 1030.3 | 1031.7 |
| 25°    | 1034.4 | 1034.4 | 1035.1 | 1035.7 | 1037.8 | 1039.1 | 1041.8 | 1043.2 | 1043.8 | 1043.8 | 1044.5 |
| 27.5°  | 1050.6 | 1051.3 | 1052.6 | 1054.0 | 1056.7 | 1058.7 | 1061.4 | 1064.1 | 1064.8 | 1065.5 | 1066.1 |
| 30°    | 1070.9 | 1071.5 | 1074.2 | 1075.6 | 1079.0 | 1083.0 | 1086.4 | 1089.1 | 1091.1 | 1092.5 | 1091.8 |
| 32.5°  | 1099.9 | 1101.2 | 1104.6 | 1106.6 | 1111.4 | 1115.4 | 1120.1 | 1124.2 | 1126.2 | 1128.2 | 1127.6 |
| 35°    | 1140.4 | 1143.8 | 1147.2 | 1149.2 | 1153.9 | 1157.3 | 1163.4 | 1167.4 | 1171.5 | 1170.1 | 1170.8 |
| 37.5°  | 1200.5 | 1203.2 | 1203.9 | 1205.2 | 1209.9 | 1212.6 | 1219.4 | 1224.8 | 1226.8 | 1228.2 | 1228.9 |
| 40°    | 1281.5 | 1281.5 | 1284.9 | 1282.2 | 1288.3 | 1288.9 | 1297.0 | 1304.5 | 1306.5 | 1311.9 | 1307.8 |
| 42.5°  | 1376.0 | 1375.4 | 1377.4 | 1375.4 | 1375.4 | 1382.1 | 1388.9 | 1402.4 | 1403.7 | 1410.5 | 1406.4 |
| 45°    | 1478.7 | 1478.7 | 1476.6 | 1477.3 | 1478.7 | 1486.1 | 1494.2 | 1509.1 | 1515.8 | 1519.9 | 1517.2 |
| 47.5°  | 1590.1 | 1587.4 | 1586.7 | 1586.0 | 1590.1 | 1598.2 | 1610.3 | 1624.5 | 1641.4 | 1642.7 | 1641.4 |
| 50°    | 1702.8 | 1702.2 | 1697.4 | 1701.5 | 1704.2 | 1708.2 | 1731.2 | 1750.1 | 1767.7 | 1778.5 | 1775.1 |
| 52.5°  | 1821.7 | 1815.6 | 1815.6 | 1815.6 | 1822.3 | 1835.2 | 1855.4 | 1881.1 | 1904.7 | 1916.2 | 1914.2 |
| 55°    | 1941.9 | 1939.8 | 1933.8 | 1931.1 | 1939.8 | 1958.1 | 1987.1 | 2018.2 | 2049.2 | 2066.8 | 2060.0 |
| 57.5°  | 2051.9 | 2048.5 | 2049.2 | 2049.9 | 2060.0 | 2084.3 | 2118.1 | 2159.3 | 2193.0 | 2211.9 | 2207.2 |
| 60°    | 2138.3 | 2134.3 | 2141.7 | 2143.7 | 2162.0 | 2202.5 | 2256.5 | 2308.5 | 2353.0 | 2372.0 | 2364.5 |
| 62.5°  | 2236.2 | 2233.5 | 2238.3 | 2237.6 | 2257.2 | 2302.4 | 2374.7 | 2457.7 | 2525.2 | 2549.5 | 2538.7 |
| 65°    | 2394.2 | 2386.1 | 2384.1 | 2376.7 | 2389.5 | 2424.6 | 2496.9 | 2593.4 | 2701.4 | 2763.6 | 2748.7 |
| 67.5°  | 2583.3 | 2581.3 | 2574.5 | 2570.5 | 2575.2 | 2619.1 | 2688.6 | 2781.8 | 2891.9 | 2977.6 | 2996.5 |
| 70°    | 2708.2 | 2710.9 | 2717.7 | 2727.8 | 2766.9 | 2852.0 | 2979.0 | 3120.1 | 3271.3 | 3335.5 | 3324.0 |
| 72.5°  | 2684.6 | 2688.6 | 2694.0 | 2706.8 | 2758.2 | 2860.1 | 3027.6 | 3238.2 | 3428.0 | 3513.0 | 3440.1 |
| 75°    | 2569.1 | 2572.5 | 2584.6 | 2604.2 | 2667.0 | 2790.6 | 2970.8 | 3194.3 | 3390.1 | 3475.2 | 3398.9 |
| 76°    | 2462.4 | 2473.2 | 2495.5 | 2518.5 | 2594.1 | 2728.5 | 2920.9 | 3159.2 | 3366.5 | 3452.9 | 3379.3 |
| 77.5°  | 2220.7 | 2230.2 | 2248.4 | 2288.2 | 2374.0 | 2546.2 | 2771.0 | 3005.3 | 3221.3 | 3299.0 | 3236.9 |
| 80°    | 1671.1 | 1679.2 | 1696.1 | 1744.0 | 1818.3 | 1925.0 | 2099.2 | 2328.1 | 2565.1 | 2667.0 | 2626.5 |
| 82.5°  | 705.6  | 715.0  | 781.9  | 851.4  | 933.1  | 1048.6 | 1162.0 | 1364.6 | 1538.8 | 1654.9 | 1592.8 |
| 85°    | 77.6   | 95.9   | 118.2  | 160.7  | 197.2  | 262.6  | 326.8  | 449.7  | 568.5  | 640.8  | 566.5  |
| 87.5°  | 13.5   | 15.5   | 22.3   | 28.4   | 31.7   | 36.5   | 43.9   | 61.4   | 83.7   | 72.2   | 73.6   |
| 90°    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 2.0    | 1.4    | 1.4    | 1.4    | 1.4    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 100°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    | 1.4    |
| 102.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 105°   | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 107.5° | 0.7    | 0.7    | 0.7    | 0.7    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 1.4    | 0.7    |



REPORT NUMBER: P157668

CATALOG NUMBER: VTS-E04-LED-E1-5XQ-8030

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 112.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 115°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 117.5° | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 120°   | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 122.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 125°   | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 127.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 130°   | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 132.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 135°   | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 137.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 140°   | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 142.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 145°   | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.7 |
| 147.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 150°   | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 152.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 |
| 155°   | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.7 |
| 157.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 160°   | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 162.5° | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 165°   | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P157668

CATALOG NUMBER: VTS-E04-LED-E1-5XQ-8030

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 | 1027.6 |
| 2.5°   | 1027.6 | 1027.6 | 1029.0 | 1028.3 | 1028.3 | 1029.0 | 1030.3 | 1029.7 |
| 5°     | 1028.3 | 1029.0 | 1027.6 | 1028.3 | 1029.0 | 1029.0 | 1029.7 | 1029.0 |
| 7.5°   | 1027.0 | 1027.0 | 1027.0 | 1027.6 | 1028.3 | 1027.6 | 1028.3 | 1028.3 |
| 10°    | 1024.3 | 1024.9 | 1024.3 | 1025.6 | 1026.3 | 1026.3 | 1027.0 | 1027.0 |
| 12.5°  | 1022.2 | 1022.2 | 1022.2 | 1023.6 | 1024.3 | 1024.3 | 1024.9 | 1024.3 |
| 15°    | 1020.2 | 1020.2 | 1019.5 | 1020.9 | 1022.2 | 1022.2 | 1022.9 | 1022.9 |
| 17.5°  | 1019.5 | 1019.5 | 1018.9 | 1020.2 | 1021.6 | 1021.6 | 1022.2 | 1022.2 |
| 20°    | 1021.6 | 1022.2 | 1020.9 | 1022.2 | 1023.6 | 1024.3 | 1024.3 | 1024.3 |
| 22.5°  | 1029.7 | 1029.0 | 1027.0 | 1027.6 | 1028.3 | 1028.3 | 1028.3 | 1028.3 |
| 25°    | 1041.8 | 1040.5 | 1038.4 | 1037.8 | 1037.1 | 1036.4 | 1036.4 | 1036.4 |
| 27.5°  | 1062.8 | 1060.7 | 1057.4 | 1056.7 | 1056.0 | 1054.7 | 1054.7 | 1054.7 |
| 30°    | 1087.7 | 1085.0 | 1081.0 | 1079.6 | 1077.6 | 1076.3 | 1075.6 | 1074.9 |
| 32.5°  | 1123.5 | 1118.1 | 1113.4 | 1110.0 | 1108.0 | 1103.9 | 1103.3 | 1101.9 |
| 35°    | 1164.7 | 1160.7 | 1153.9 | 1151.9 | 1148.5 | 1146.5 | 1145.8 | 1142.4 |
| 37.5°  | 1221.4 | 1216.7 | 1210.6 | 1209.3 | 1208.6 | 1206.6 | 1206.6 | 1205.9 |
| 40°    | 1300.4 | 1295.7 | 1290.3 | 1284.9 | 1286.2 | 1286.9 | 1286.9 | 1284.2 |
| 42.5°  | 1397.0 | 1389.5 | 1378.7 | 1382.1 | 1380.1 | 1377.4 | 1382.8 | 1379.4 |
| 45°    | 1507.0 | 1496.9 | 1488.8 | 1485.4 | 1485.4 | 1482.0 | 1487.4 | 1487.4 |
| 47.5°  | 1629.2 | 1613.0 | 1598.2 | 1598.9 | 1593.5 | 1594.8 | 1598.2 | 1602.9 |
| 50°    | 1758.2 | 1736.6 | 1722.4 | 1715.7 | 1710.3 | 1712.3 | 1718.4 | 1719.7 |
| 52.5°  | 1891.9 | 1865.6 | 1846.7 | 1836.5 | 1829.8 | 1832.5 | 1837.2 | 1841.3 |
| 55°    | 2031.0 | 2001.9 | 1973.6 | 1962.8 | 1954.7 | 1960.1 | 1960.8 | 1966.2 |
| 57.5°  | 2176.1 | 2136.3 | 2103.2 | 2087.0 | 2078.9 | 2084.3 | 2088.4 | 2093.8 |
| 60°    | 2322.7 | 2276.7 | 2237.6 | 2218.7 | 2207.2 | 2214.6 | 2224.1 | 2226.8 |
| 62.5°  | 2492.8 | 2429.3 | 2385.5 | 2358.4 | 2353.0 | 2360.5 | 2363.2 | 2371.3 |
| 65°    | 2694.0 | 2617.7 | 2557.0 | 2523.9 | 2522.5 | 2526.6 | 2532.6 | 2534.7 |
| 67.5°  | 2923.6 | 2838.5 | 2756.8 | 2723.7 | 2710.9 | 2723.1 | 2729.1 | 2737.2 |
| 70°    | 3247.7 | 3130.9 | 3012.7 | 2939.1 | 2908.1 | 2898.6 | 2901.3 | 2910.1 |
| 72.5°  | 3284.1 | 3158.6 | 3020.8 | 2920.9 | 2866.2 | 2841.2 | 2840.5 | 2841.9 |
| 75°    | 3204.5 | 3003.9 | 2906.7 | 2791.9 | 2714.3 | 2673.8 | 2668.4 | 2667.7 |
| 76°    | 3164.6 | 2927.6 | 2787.2 | 2696.0 | 2602.9 | 2561.7 | 2555.6 | 2552.2 |
| 77.5°  | 2996.5 | 2742.0 | 2530.6 | 2475.3 | 2386.1 | 2334.1 | 2344.9 | 2336.2 |
| 80°    | 2402.3 | 2149.8 | 1950.6 | 1794.7 | 1799.4 | 1761.6 | 1746.0 | 1741.3 |
| 82.5°  | 1415.9 | 1208.6 | 988.5  | 859.5  | 736.6  | 704.2  | 606.3  | 584.0  |
| 85°    | 452.4  | 320.7  | 194.5  | 141.1  | 95.9   | 80.3   | 62.8   | 57.4   |
| 87.5°  | 60.1   | 47.3   | 38.5   | 37.1   | 33.8   | 29.0   | 18.9   | 13.5   |
| 90°    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.7    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 100°   | 1.4    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 102.5° | 1.4    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7    |
| 105°   | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 107.5° | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |



REPORT NUMBER: P157668

CATALOG NUMBER: VTS-E04-LED-E1-5XQ-8030

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 |
| 112.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 115°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 |
| 117.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 |
| 120°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 |
| 122.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 125°   | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 127.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 130°   | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 132.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 135°   | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 137.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 140°   | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 142.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 145°   | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 147.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 150°   | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 152.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 155°   | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 157.5° | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 160°   | 0.7 | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 |
| 162.5° | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 165°   | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)