

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: P157656

Luminaire Tested: **VTS-F02-LED-E1-5XQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157656  
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-F02-LED-E1-5XQ-7050  
Description: VENTUS LED SITE LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

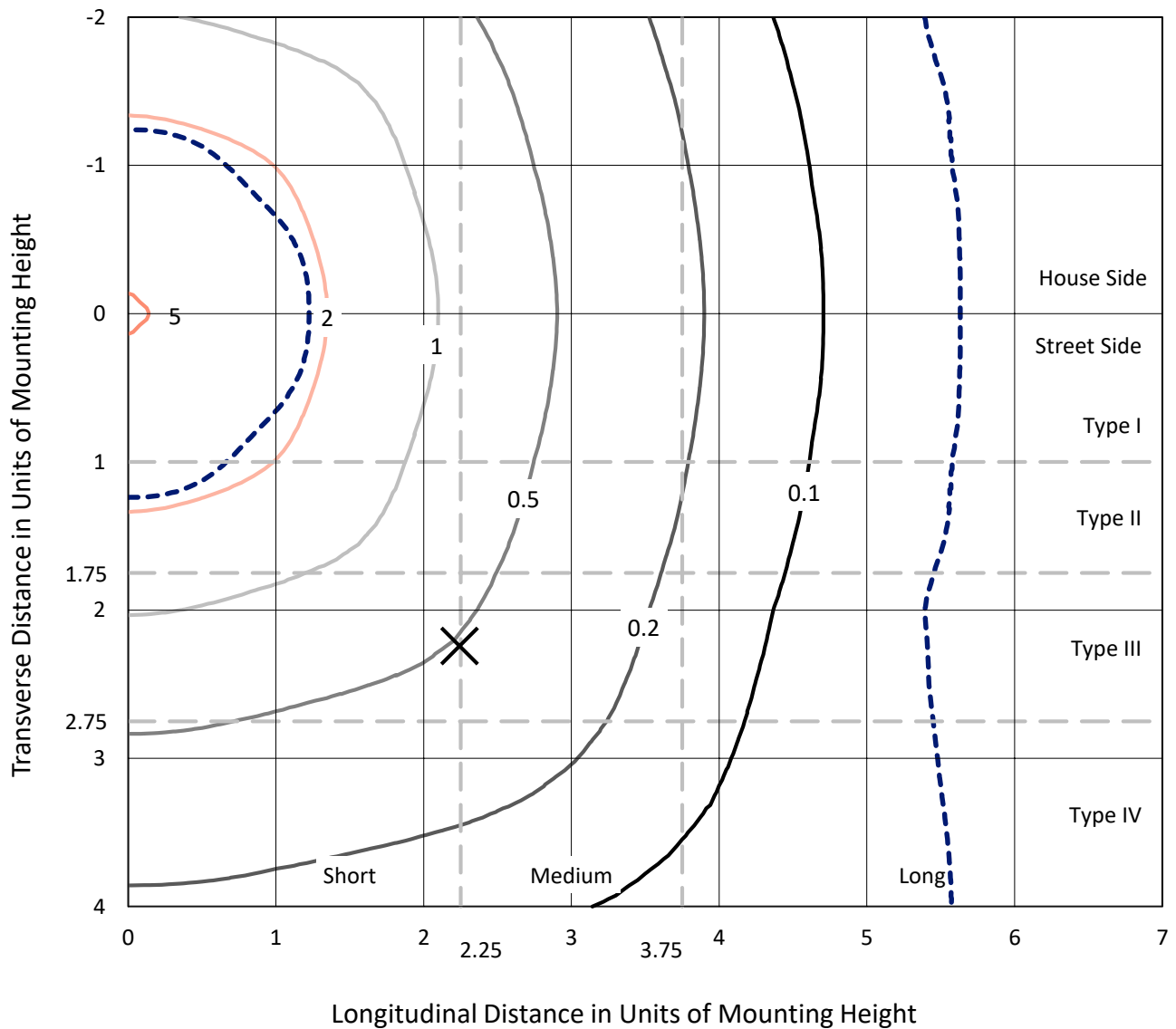
Lumens per Lamp: N/A  
Luminaire Lumens: 5357.8 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U1 - G2

Input Watts (W): 55  
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

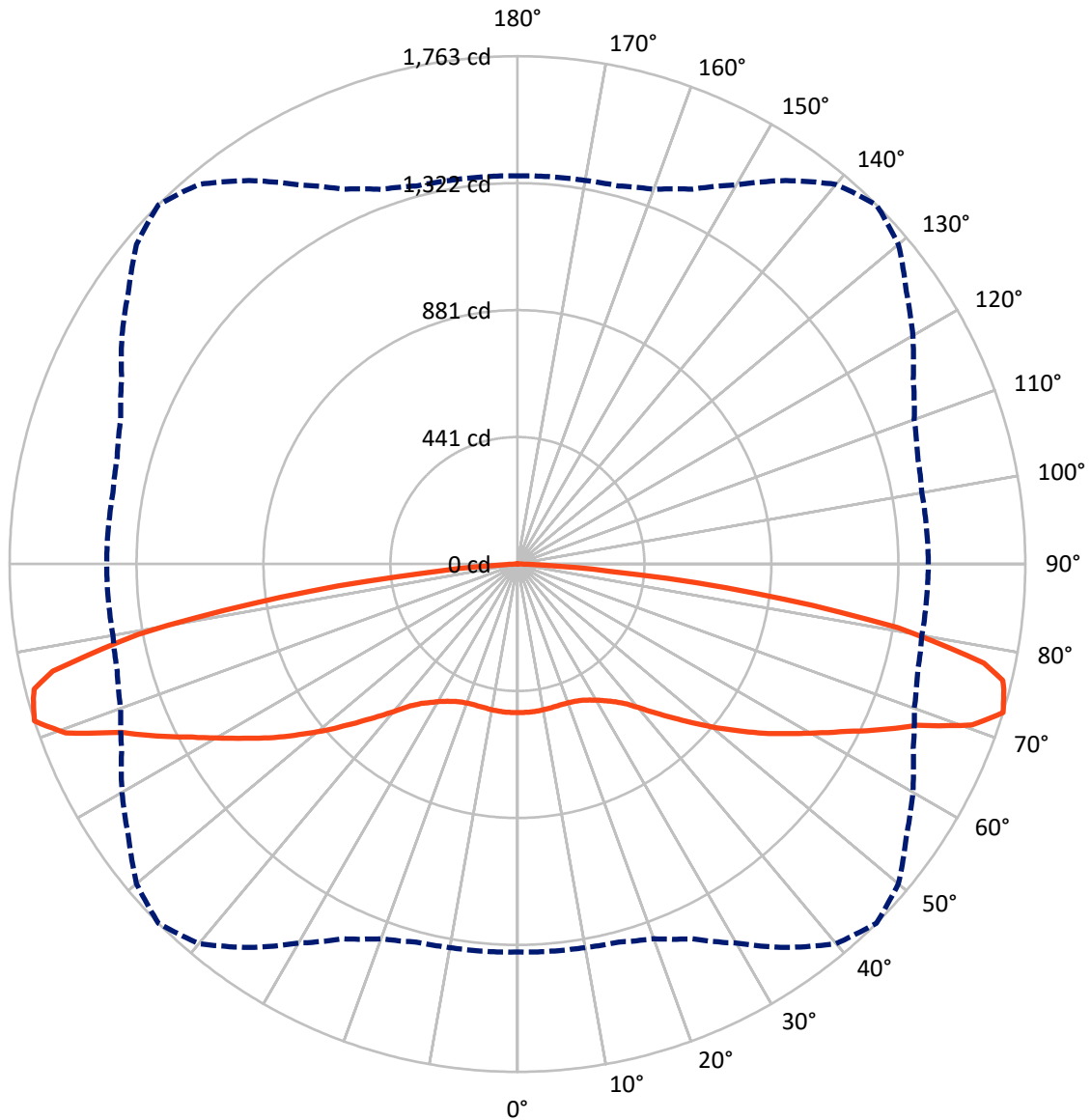
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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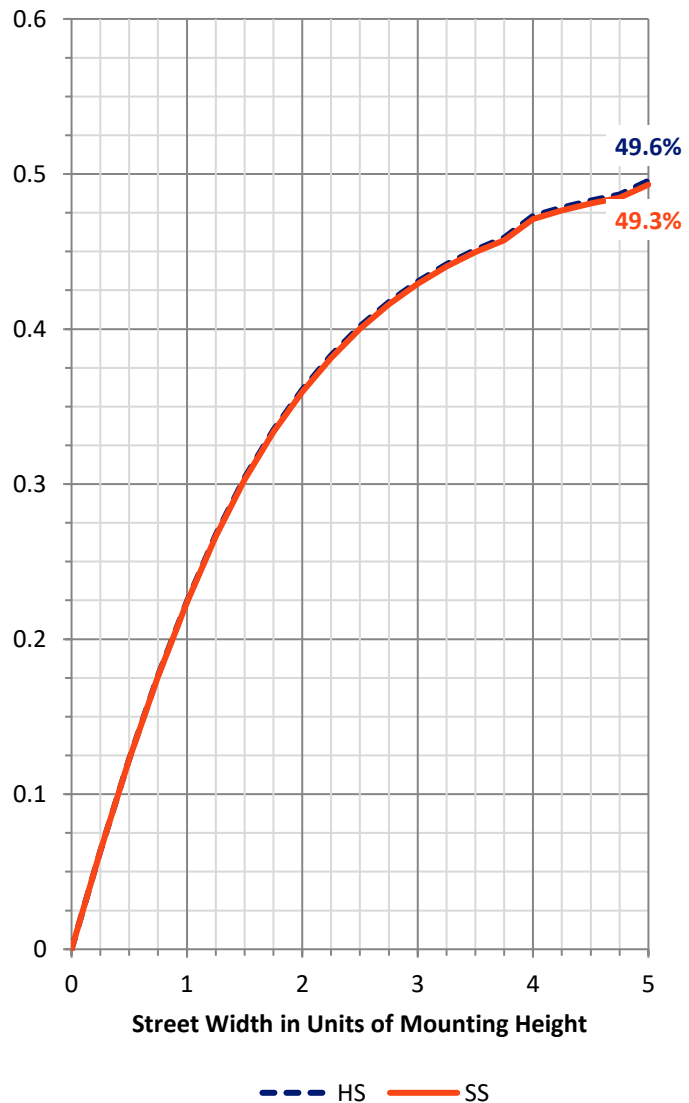
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2677.6   | 1.3    | 2678.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2677.6   | 1.3    | 2678.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5355.3   | 2.5    | 5357.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.2   | 0.9       |
| 10°-20°   | 145.3  | 2.7       |
| 20°-30°   | 243.0  | 4.5       |
| 30°-40°   | 369.4  | 6.9       |
| 40°-50°   | 585.0  | 10.9      |
| 50°-60°   | 894.8  | 16.7      |
| 60°-70°   | 1280.7 | 23.9      |
| 70°-80°   | 1465.4 | 27.4      |
| 80°-90°   | 322.5  | 6.0       |
| 90°-100°  | 0.3    | 0.0       |
| 100°-110° | 0.5    | 0.0       |
| 110°-120° | 0.4    | 0.0       |
| 120°-130° | 0.4    | 0.0       |
| 130°-140° | 0.4    | 0.0       |
| 140°-150° | 0.3    | 0.0       |
| 150°-160° | 0.2    | 0.0       |
| 160°-170° | 0.1    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5355.3 | 100.0     |
| 0°-180°   | 5357.8 | 100.0     |



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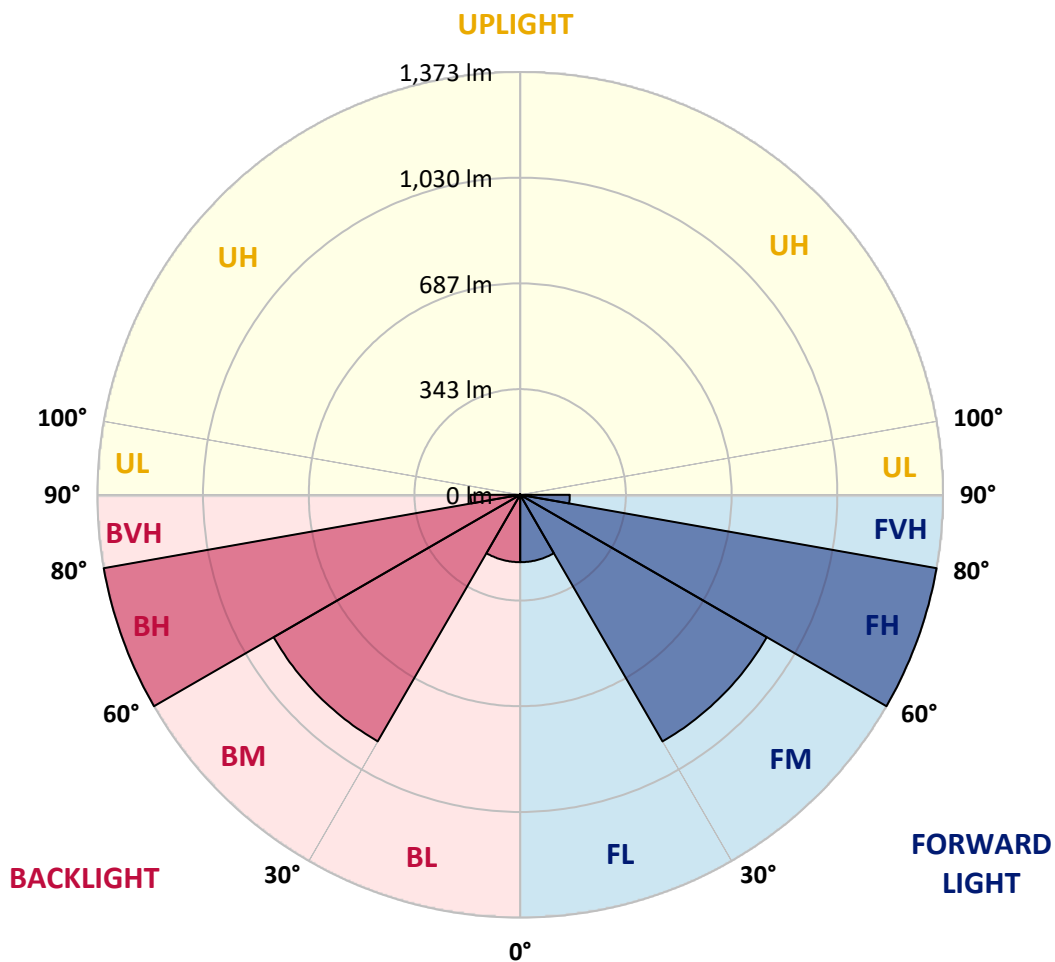
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|----------------|--------|-----------|-------------------------|-------|---------|
|                |        |           | B                       | U     | G       |
| FL (0°-30°)    | 218.8  | 4.1       |                         |       |         |
| FM (30°-60°)   | 924.6  | 17.3      |                         |       |         |
| FH (60°-80°)   | 1373.0 | 25.6      |                         |       | G1/1800 |
| FVH (80°-90°)  | 161.3  | 3.0       |                         |       | G2/225  |
| BL (0°-30°)    | 218.8  | 4.1       | B1/500                  |       |         |
| BM (30°-60°)   | 924.6  | 17.3      | B1/1000                 |       |         |
| BH (60°-80°)   | 1373.0 | 25.6      | B3/2500                 |       | G1/1800 |
| BVH (80°-90°)  | 161.3  | 3.0       |                         |       | G2/225  |
| UL (90°-100°)  | 0.3    | 0.0       |                         | U1/10 |         |
| UH (100°-180°) | 1.3    | 0.0       |                         | U1/10 |         |

**BUG Rating: B3-U1-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  |
| 2.5°   | 516.0  | 515.4  | 515.7  | 516.4  | 516.0  | 516.0  | 515.7  | 515.7  | 516.4  | 515.7  | 516.0  |
| 5°     | 516.4  | 515.7  | 516.0  | 516.4  | 516.0  | 516.4  | 516.0  | 516.0  | 516.0  | 515.7  | 516.4  |
| 7.5°   | 515.0  | 515.0  | 515.4  | 515.4  | 515.0  | 515.4  | 515.4  | 515.4  | 515.0  | 515.0  | 515.7  |
| 10°    | 514.3  | 514.0  | 514.0  | 514.3  | 514.0  | 514.0  | 514.3  | 514.3  | 513.7  | 513.7  | 514.3  |
| 12.5°  | 513.3  | 513.0  | 513.0  | 513.0  | 512.7  | 512.7  | 513.0  | 513.0  | 512.7  | 512.3  | 513.3  |
| 15°    | 512.7  | 512.3  | 512.3  | 512.3  | 511.6  | 512.0  | 512.0  | 512.0  | 511.6  | 511.3  | 512.3  |
| 17.5°  | 512.3  | 512.0  | 512.0  | 512.0  | 511.6  | 511.6  | 511.6  | 511.6  | 511.3  | 511.3  | 512.0  |
| 20°    | 513.0  | 513.0  | 513.0  | 513.0  | 512.7  | 512.7  | 512.7  | 513.0  | 513.0  | 513.0  | 513.7  |
| 22.5°  | 514.7  | 514.7  | 515.0  | 515.4  | 515.4  | 516.0  | 516.4  | 516.7  | 516.7  | 517.1  | 517.7  |
| 25°    | 519.1  | 519.1  | 519.4  | 519.8  | 520.8  | 521.5  | 522.8  | 523.5  | 523.8  | 523.8  | 524.2  |
| 27.5°  | 527.2  | 527.6  | 528.2  | 528.9  | 530.3  | 531.3  | 532.6  | 534.0  | 534.3  | 534.7  | 535.0  |
| 30°    | 537.4  | 537.7  | 539.1  | 539.8  | 541.5  | 543.5  | 545.2  | 546.5  | 547.5  | 548.2  | 547.9  |
| 32.5°  | 552.0  | 552.6  | 554.3  | 555.3  | 557.7  | 559.7  | 562.1  | 564.2  | 565.2  | 566.2  | 565.8  |
| 35°    | 572.3  | 574.0  | 575.7  | 576.7  | 579.1  | 580.8  | 583.8  | 585.8  | 587.9  | 587.2  | 587.5  |
| 37.5°  | 602.4  | 603.8  | 604.1  | 604.8  | 607.2  | 608.5  | 611.9  | 614.6  | 615.7  | 616.3  | 616.7  |
| 40°    | 643.1  | 643.1  | 644.8  | 643.4  | 646.5  | 646.8  | 650.9  | 654.6  | 655.6  | 658.3  | 656.3  |
| 42.5°  | 690.5  | 690.2  | 691.2  | 690.2  | 690.2  | 693.6  | 697.0  | 703.8  | 704.4  | 707.8  | 705.8  |
| 45°    | 742.0  | 742.0  | 741.0  | 741.4  | 742.0  | 745.8  | 749.8  | 757.3  | 760.7  | 762.7  | 761.4  |
| 47.5°  | 797.9  | 796.6  | 796.3  | 795.9  | 797.9  | 802.0  | 808.1  | 815.2  | 823.7  | 824.4  | 823.7  |
| 50°    | 854.5  | 854.2  | 851.8  | 853.9  | 855.2  | 857.2  | 868.8  | 878.2  | 887.1  | 892.5  | 890.8  |
| 52.5°  | 914.2  | 911.1  | 911.1  | 911.1  | 914.5  | 920.9  | 931.1  | 944.0  | 955.8  | 961.6  | 960.6  |
| 55°    | 974.5  | 973.5  | 970.4  | 969.1  | 973.5  | 982.6  | 997.2  | 1012.8 | 1028.3 | 1037.2 | 1033.8 |
| 57.5°  | 1029.7 | 1028.0 | 1028.3 | 1028.7 | 1033.8 | 1046.0 | 1062.9 | 1083.6 | 1100.5 | 1110.0 | 1107.6 |
| 60°    | 1073.1 | 1071.0 | 1074.8 | 1075.8 | 1084.9 | 1105.3 | 1132.4 | 1158.5 | 1180.8 | 1190.3 | 1186.6 |
| 62.5°  | 1122.2 | 1120.9 | 1123.2 | 1122.9 | 1132.7 | 1155.4 | 1191.7 | 1233.3 | 1267.2 | 1279.4 | 1274.0 |
| 65°    | 1201.5 | 1197.4 | 1196.4 | 1192.7 | 1199.1 | 1216.7 | 1253.0 | 1301.4 | 1355.7 | 1386.8 | 1379.4 |
| 67.5°  | 1296.4 | 1295.3 | 1292.0 | 1289.9 | 1292.3 | 1314.3 | 1349.2 | 1396.0 | 1451.2 | 1494.2 | 1503.7 |
| 70°    | 1359.0 | 1360.4 | 1363.8 | 1368.9 | 1388.5 | 1431.2 | 1494.9 | 1565.7 | 1641.6 | 1673.8 | 1668.1 |
| 72.5°  | 1347.2 | 1349.2 | 1351.9 | 1358.4 | 1384.1 | 1435.3 | 1519.3 | 1625.0 | 1720.2 | 1762.9 | 1726.3 |
| 75°    | 1289.2 | 1290.9 | 1297.0 | 1306.9 | 1338.4 | 1400.4 | 1490.9 | 1603.0 | 1701.3 | 1744.0 | 1705.7 |
| 76°    | 1235.7 | 1241.1 | 1252.3 | 1263.8 | 1301.8 | 1369.2 | 1465.8 | 1585.4 | 1689.4 | 1732.8 | 1695.8 |
| 77.5°  | 1114.4 | 1119.2 | 1128.3 | 1148.3 | 1191.3 | 1277.7 | 1390.6 | 1508.1 | 1616.6 | 1655.5 | 1624.4 |
| 80°    | 838.6  | 842.7  | 851.1  | 875.2  | 912.5  | 966.0  | 1053.4 | 1168.3 | 1287.2 | 1338.4 | 1318.0 |
| 82.5°  | 354.1  | 358.8  | 392.4  | 427.3  | 468.3  | 526.2  | 583.1  | 684.8  | 772.2  | 830.5  | 799.3  |
| 85°    | 39.0   | 48.1   | 59.3   | 80.6   | 98.9   | 131.8  | 164.0  | 225.7  | 285.3  | 321.5  | 284.3  |
| 87.5°  | 6.8    | 7.8    | 11.2   | 14.2   | 15.9   | 18.3   | 22.0   | 30.8   | 42.0   | 36.3   | 36.9   |
| 90°    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 0.7    | 0.7    | 0.7    | 0.7    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| 100°   | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.7    | 0.7    | 0.7    |
| 102.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 105°   | 0.3    | 0.3    | 0.3    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 107.5° | 0.3    | 0.3    | 0.3    | 0.3    | 0.7    | 0.7    | 0.3    | 0.3    | 0.3    | 0.7    | 0.3    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 112.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 115°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 117.5° | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 120°   | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 122.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 125°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 127.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 130°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 132.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 135°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 137.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 140°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 142.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 145°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.3 |
| 147.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 150°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 |
| 155°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.3 |
| 157.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 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 |





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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  | 515.7  |
| 2.5°   | 515.7  | 515.7  | 516.4  | 516.0  | 516.0  | 516.4  | 517.1  | 516.7  |
| 5°     | 516.0  | 516.4  | 515.7  | 516.0  | 516.4  | 516.4  | 516.7  | 516.4  |
| 7.5°   | 515.4  | 515.4  | 515.4  | 515.7  | 516.0  | 515.7  | 516.0  | 516.0  |
| 10°    | 514.0  | 514.3  | 514.0  | 514.7  | 515.0  | 515.0  | 515.4  | 515.4  |
| 12.5°  | 513.0  | 513.0  | 513.0  | 513.7  | 514.0  | 514.0  | 514.3  | 514.0  |
| 15°    | 512.0  | 512.0  | 511.6  | 512.3  | 513.0  | 513.0  | 513.3  | 513.3  |
| 17.5°  | 511.6  | 511.6  | 511.3  | 512.0  | 512.7  | 512.7  | 513.0  | 513.0  |
| 20°    | 512.7  | 513.0  | 512.3  | 513.0  | 513.7  | 514.0  | 514.0  | 514.0  |
| 22.5°  | 516.7  | 516.4  | 515.4  | 515.7  | 516.0  | 516.0  | 516.0  | 516.0  |
| 25°    | 522.8  | 522.1  | 521.1  | 520.8  | 520.4  | 520.1  | 520.1  | 520.1  |
| 27.5°  | 533.3  | 532.3  | 530.6  | 530.3  | 529.9  | 529.3  | 529.3  | 529.3  |
| 30°    | 545.9  | 544.5  | 542.5  | 541.8  | 540.8  | 540.1  | 539.8  | 539.4  |
| 32.5°  | 563.8  | 561.1  | 558.7  | 557.0  | 556.0  | 554.0  | 553.6  | 553.0  |
| 35°    | 584.5  | 582.4  | 579.1  | 578.0  | 576.4  | 575.3  | 575.0  | 573.3  |
| 37.5°  | 612.9  | 610.6  | 607.5  | 606.8  | 606.5  | 605.5  | 605.5  | 605.2  |
| 40°    | 652.6  | 650.2  | 647.5  | 644.8  | 645.5  | 645.8  | 645.8  | 644.5  |
| 42.5°  | 701.0  | 697.3  | 691.9  | 693.6  | 692.6  | 691.2  | 693.9  | 692.2  |
| 45°    | 756.3  | 751.2  | 747.1  | 745.4  | 745.4  | 743.7  | 746.4  | 746.4  |
| 47.5°  | 817.6  | 809.5  | 802.0  | 802.4  | 799.6  | 800.3  | 802.0  | 804.4  |
| 50°    | 882.3  | 871.5  | 864.4  | 861.0  | 858.3  | 859.3  | 862.3  | 863.0  |
| 52.5°  | 949.4  | 936.2  | 926.7  | 921.6  | 918.2  | 919.6  | 922.0  | 924.0  |
| 55°    | 1019.2 | 1004.6 | 990.4  | 985.0  | 980.9  | 983.6  | 984.0  | 986.7  |
| 57.5°  | 1092.0 | 1072.1 | 1055.5 | 1047.3 | 1043.3 | 1046.0 | 1048.0 | 1050.7 |
| 60°    | 1165.6 | 1142.5 | 1122.9 | 1113.4 | 1107.6 | 1111.4 | 1116.1 | 1117.5 |
| 62.5°  | 1251.0 | 1219.1 | 1197.1 | 1183.5 | 1180.8 | 1184.6 | 1185.9 | 1190.0 |
| 65°    | 1351.9 | 1313.6 | 1283.2 | 1266.5 | 1265.9 | 1267.9 | 1271.0 | 1272.0 |
| 67.5°  | 1467.1 | 1424.4 | 1383.4 | 1366.8 | 1360.4 | 1366.5 | 1369.6 | 1373.6 |
| 70°    | 1629.8 | 1571.2 | 1511.9 | 1474.9 | 1459.3 | 1454.6 | 1456.0 | 1460.4 |
| 72.5°  | 1648.1 | 1585.0 | 1515.9 | 1465.8 | 1438.3 | 1425.8 | 1425.5 | 1426.1 |
| 75°    | 1608.1 | 1507.5 | 1458.7 | 1401.1 | 1362.1 | 1341.8 | 1339.1 | 1338.7 |
| 76°    | 1588.1 | 1469.2 | 1398.7 | 1352.9 | 1306.2 | 1285.5 | 1282.5 | 1280.8 |
| 77.5°  | 1503.7 | 1376.0 | 1269.9 | 1242.2 | 1197.4 | 1171.3 | 1176.8 | 1172.4 |
| 80°    | 1205.6 | 1078.8 | 978.9  | 900.6  | 903.0  | 884.0  | 876.2  | 873.8  |
| 82.5°  | 710.5  | 606.5  | 496.0  | 431.3  | 369.7  | 353.4  | 304.3  | 293.1  |
| 85°    | 227.0  | 160.9  | 97.6   | 70.8   | 48.1   | 40.3   | 31.5   | 28.8   |
| 87.5°  | 30.2   | 23.7   | 19.3   | 18.6   | 16.9   | 14.6   | 9.5    | 6.8    |
| 90°    | 0.3    | 0.3    | 0.3    | 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°    | 0.3    | 0.3    | 0.3    | 0.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| 100°   | 0.7    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    | 0.3    |
| 102.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.3    | 0.3    | 0.3    | 0.3    |
| 105°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 107.5° | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |



REPORT NUMBER: P157656

CATALOG NUMBER: VTS-F02-LED-E1-5XQ-7050

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 |
| 112.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 |
| 115°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 |
| 117.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 |
| 120°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 |
| 122.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 125°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 127.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 130°   | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 132.5° | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 135°   | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 137.5° | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 140°   | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 142.5° | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 145°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 147.5° | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 150°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 152.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 155°   | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 157.5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 160°   | 0.3 | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 |
| 162.5° | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 165°   | 0.3 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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)