

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: P149815

Luminaire Tested: **VXM-F02-LED-E1-SL2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149815  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXM-F02-LED-E1-SL2  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5044.1 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1

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



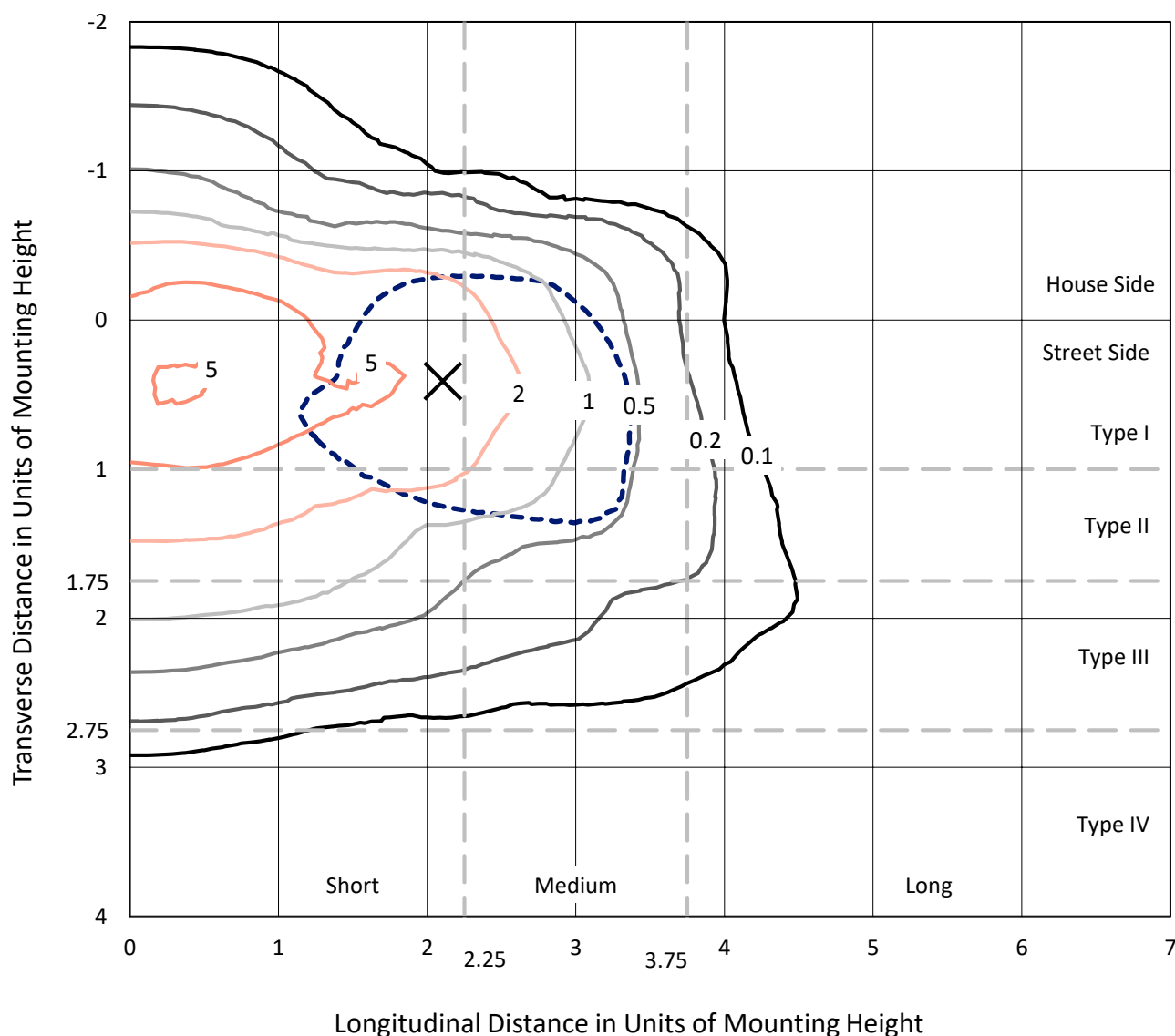
REPORT NUMBER: P149815

CATALOG NUMBER: VXM-F02-LED-E1-SL2

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

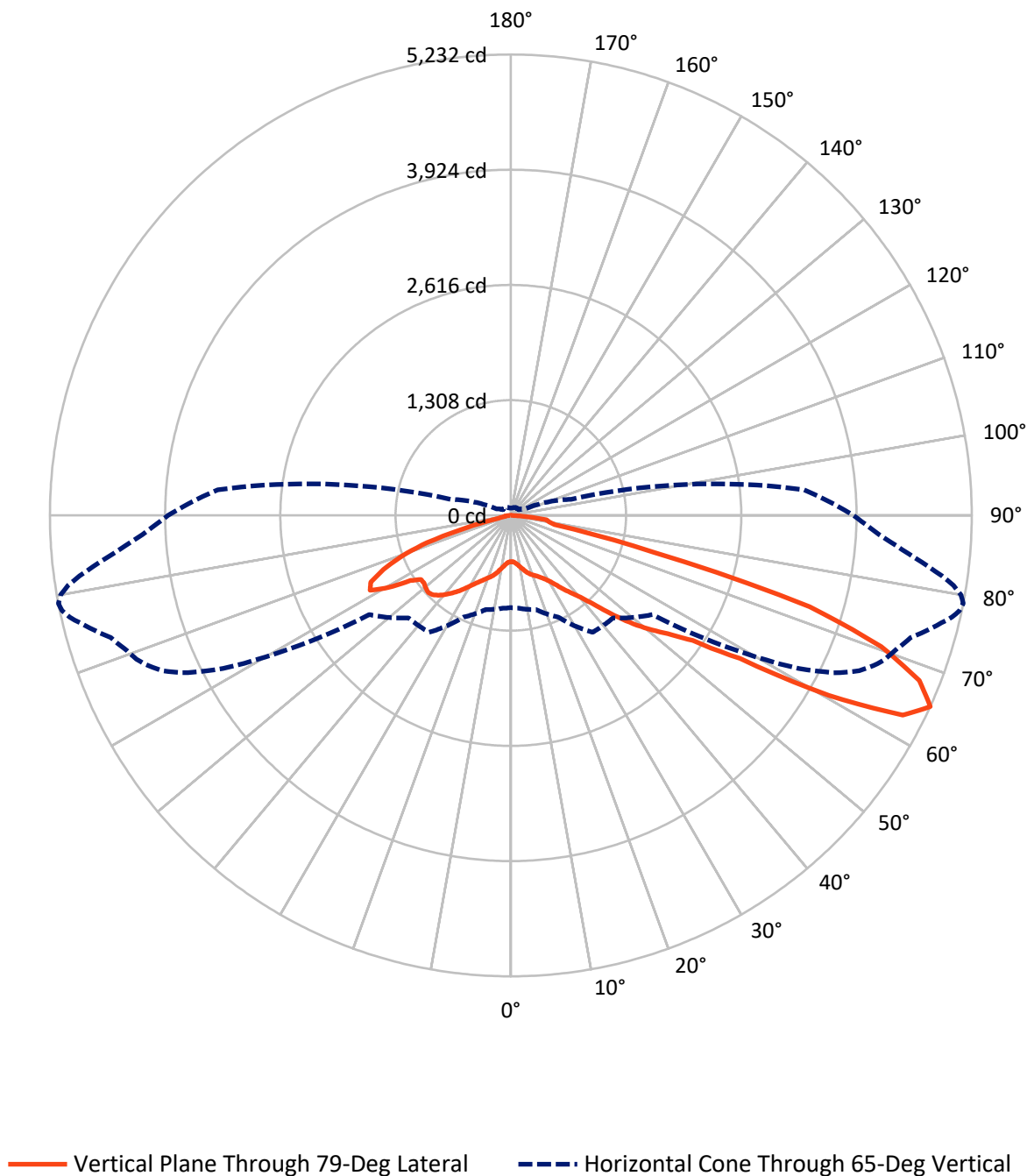


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P149815

CATALOG NUMBER: VXM-F02-LED-E1-SL2

## Luminous Intensity Polar Plot



REPORT NUMBER: P149815

CATALOG NUMBER: VXM-F02-LED-E1-SL2

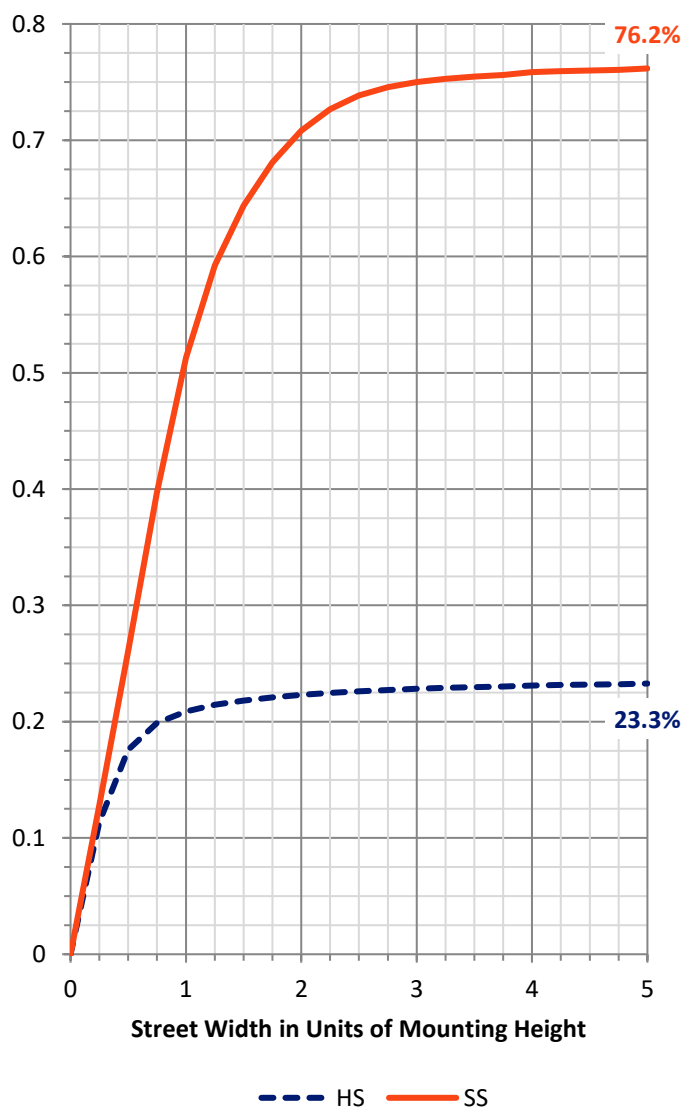
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1192.4   | 0.0    | 1192.4 |
|                    | % Fixture | 23.6     | 0.0    | 23.6   |
| <b>Street Side</b> | Lumens    | 3851.7   | 0.0    | 3851.7 |
|                    | % Fixture | 76.4     | 0.0    | 76.4   |
| <b>Total</b>       | Lumens    | 5044.1   | 0.0    | 5044.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.2   | 1.0       |
| 10°-20°   | 170.7  | 3.4       |
| 20°-30°   | 294.8  | 5.8       |
| 30°-40°   | 487.9  | 9.7       |
| 40°-50°   | 827.5  | 16.4      |
| 50°-60°   | 1099.5 | 21.8      |
| 60°-70°   | 1420.3 | 28.2      |
| 70°-80°   | 595.7  | 11.8      |
| 80°-90°   | 95.7   | 1.9       |
| 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°    | 5044.1 | 100.0     |
| 0°-180°   | 5044.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P149815

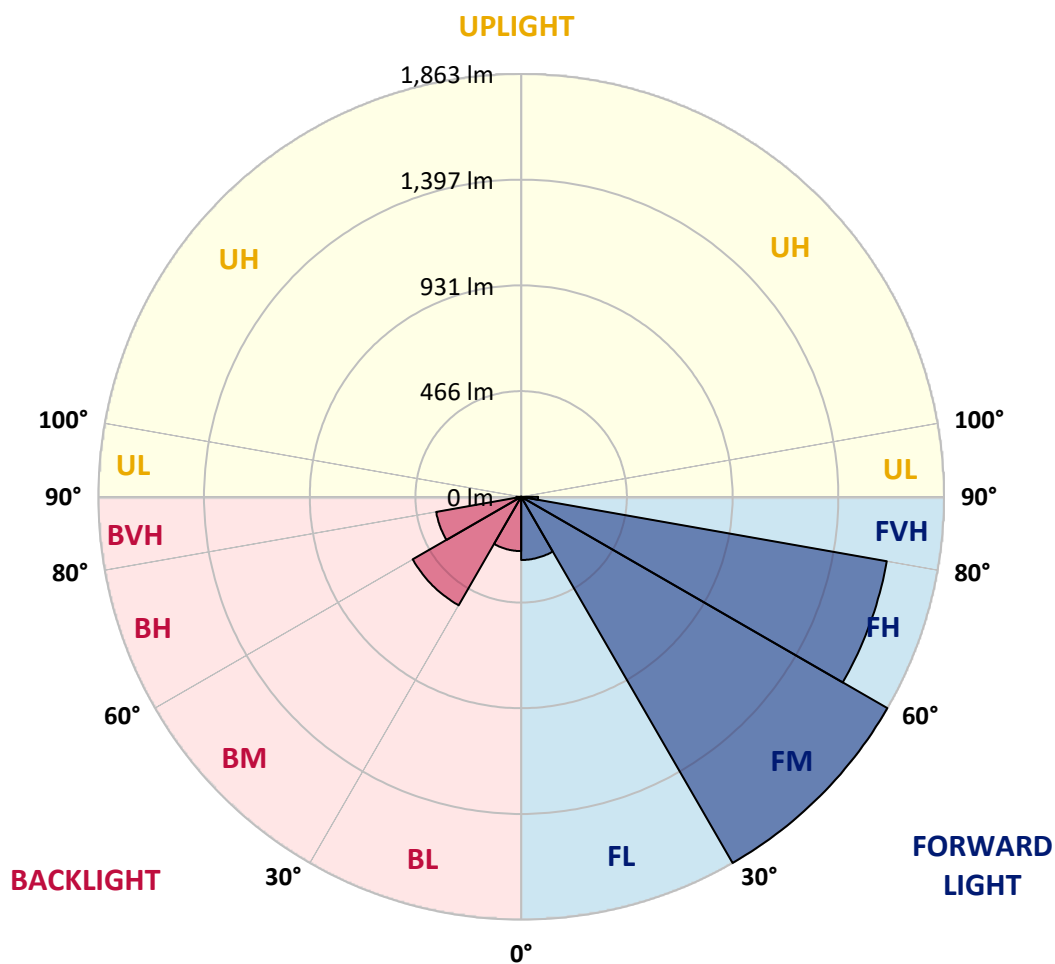
CATALOG NUMBER: VXM-F02-LED-E1-SL2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 278.3  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 1862.9 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 1635.6 | 32.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 74.8   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 239.3  | 4.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 552.0  | 10.9      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 380.3  | 7.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 20.9   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



REPORT NUMBER: P149815

CATALOG NUMBER: VXM-F02-LED-E1-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  |
| 2.5°  | 523.4  | 525.0  | 523.9  | 525.0  | 526.1  | 526.7  | 527.8  | 527.2  | 527.2  | 527.8  | 526.7  |
| 5°    | 523.4  | 523.4  | 525.0  | 527.8  | 528.9  | 532.2  | 536.0  | 535.5  | 536.0  | 535.5  | 536.6  |
| 7.5°  | 534.4  | 533.8  | 535.5  | 538.8  | 539.9  | 544.8  | 551.5  | 552.6  | 553.7  | 553.7  | 555.3  |
| 10°   | 553.7  | 553.1  | 554.8  | 556.4  | 558.1  | 561.9  | 571.3  | 575.1  | 575.7  | 576.2  | 578.4  |
| 12.5° | 577.9  | 577.3  | 575.1  | 575.1  | 574.6  | 581.7  | 594.4  | 601.5  | 602.6  | 604.8  | 606.5  |
| 15°   | 594.9  | 593.3  | 590.0  | 587.8  | 590.5  | 602.1  | 620.8  | 629.0  | 630.2  | 631.8  | 636.2  |
| 17.5° | 611.4  | 609.8  | 602.6  | 597.1  | 601.0  | 619.7  | 645.0  | 653.8  | 656.0  | 657.7  | 662.6  |
| 20°   | 634.6  | 633.5  | 623.0  | 609.8  | 608.7  | 632.9  | 663.7  | 675.3  | 676.9  | 679.1  | 684.1  |
| 22.5° | 669.8  | 664.8  | 652.7  | 627.9  | 615.8  | 640.6  | 676.9  | 692.9  | 695.1  | 697.3  | 703.9  |
| 25°   | 713.8  | 711.6  | 690.7  | 652.7  | 627.4  | 648.3  | 691.2  | 711.1  | 714.4  | 717.1  | 725.9  |
| 27.5° | 759.5  | 756.2  | 733.6  | 684.1  | 647.8  | 663.7  | 713.8  | 736.4  | 740.8  | 745.2  | 753.4  |
| 30°   | 800.2  | 799.1  | 780.4  | 726.5  | 680.8  | 692.9  | 750.1  | 777.6  | 782.6  | 788.1  | 795.8  |
| 32.5° | 896.0  | 896.5  | 877.3  | 822.2  | 760.6  | 745.7  | 802.4  | 843.7  | 845.9  | 852.5  | 866.3  |
| 35°   | 1079.2 | 1081.4 | 1074.3 | 1030.8 | 961.5  | 900.4  | 905.9  | 946.6  | 948.8  | 954.3  | 967.5  |
| 37.5° | 1202.0 | 1206.4 | 1228.4 | 1242.1 | 1206.9 | 1178.8 | 1109.0 | 1093.0 | 1094.6 | 1091.3 | 1088.6 |
| 40°   | 1269.7 | 1276.3 | 1334.0 | 1405.6 | 1444.1 | 1444.7 | 1414.4 | 1344.0 | 1317.0 | 1309.3 | 1276.3 |
| 42.5° | 1308.2 | 1319.2 | 1401.2 | 1523.4 | 1634.0 | 1709.9 | 1728.6 | 1650.5 | 1630.7 | 1595.5 | 1532.2 |
| 45°   | 1333.5 | 1346.7 | 1443.6 | 1610.9 | 1773.8 | 1903.1 | 2000.5 | 1965.9 | 1952.6 | 1931.2 | 1872.8 |
| 47.5° | 1329.1 | 1339.6 | 1440.3 | 1640.6 | 1847.0 | 2030.8 | 2203.6 | 2239.4 | 2223.4 | 2217.9 | 2178.3 |
| 50°   | 1248.7 | 1258.1 | 1360.5 | 1566.8 | 1806.8 | 2079.2 | 2332.4 | 2433.6 | 2433.6 | 2444.1 | 2432.0 |
| 52.5° | 1162.9 | 1170.6 | 1263.6 | 1449.1 | 1676.9 | 2031.9 | 2403.9 | 2571.8 | 2593.8 | 2612.0 | 2640.6 |
| 55°   | 1130.4 | 1139.8 | 1210.2 | 1368.7 | 1566.3 | 1896.5 | 2428.1 | 2675.3 | 2716.0 | 2746.8 | 2811.7 |
| 57.5° | 1145.8 | 1155.2 | 1205.3 | 1325.2 | 1501.4 | 1758.4 | 2429.2 | 2814.5 | 2893.2 | 2956.5 | 3088.0 |
| 60°   | 1212.4 | 1221.2 | 1263.1 | 1365.4 | 1484.3 | 1678.6 | 2382.5 | 3036.3 | 3161.8 | 3280.6 | 3499.7 |
| 62.5° | 1181.6 | 1192.6 | 1253.7 | 1432.0 | 1611.4 | 1618.0 | 2213.5 | 3208.0 | 3410.0 | 3585.5 | 3933.9 |
| 65°   | 1046.8 | 1058.3 | 1106.2 | 1273.0 | 1619.1 | 1644.4 | 1963.1 | 3211.3 | 3462.3 | 3699.5 | 4075.3 |
| 67.5° | 794.7  | 799.1  | 837.1  | 970.8  | 1295.0 | 1673.6 | 1705.5 | 2831.0 | 3069.9 | 3334.6 | 3722.6 |
| 70°   | 406.2  | 413.9  | 424.9  | 536.0  | 833.8  | 1383.0 | 1465.6 | 2086.4 | 2390.7 | 2664.2 | 3130.4 |
| 72.5° | 140.9  | 143.6  | 154.6  | 204.7  | 406.2  | 907.5  | 1282.9 | 1429.8 | 1613.6 | 1869.5 | 2409.4 |
| 75°   | 84.8   | 84.8   | 88.6   | 103.5  | 185.5  | 472.8  | 1141.4 | 1167.8 | 1192.6 | 1278.5 | 1631.8 |
| 77.5° | 67.1   | 68.2   | 68.2   | 71.0   | 102.9  | 242.7  | 866.8  | 1085.8 | 1089.1 | 1097.4 | 1156.8 |
| 80°   | 47.9   | 50.1   | 54.5   | 56.7   | 66.6   | 133.2  | 486.5  | 953.2  | 1018.1 | 1049.5 | 1093.0 |
| 82.5° | 35.8   | 38.0   | 46.2   | 49.0   | 51.7   | 74.3   | 218.5  | 657.7  | 776.0  | 838.7  | 991.7  |
| 85°   | 16.0   | 18.7   | 31.4   | 34.7   | 36.3   | 39.6   | 102.4  | 187.1  | 215.2  | 241.6  | 318.7  |
| 87.5° | 2.8    | 2.8    | 5.0    | 7.2    | 10.5   | 9.9    | 22.6   | 31.9   | 32.5   | 38.0   | 42.4   |
| 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: P149815

CATALOG NUMBER: VXM-F02-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  |
| 2.5°  | 526.7  | 526.7  | 526.7  | 526.1  | 526.7  | 526.7  | 526.7  | 526.7  | 527.2  | 527.2  | 527.2  |
| 5°    | 538.2  | 537.1  | 537.7  | 537.7  | 537.7  | 537.1  | 538.2  | 537.7  | 538.2  | 539.9  | 539.3  |
| 7.5°  | 555.3  | 556.4  | 557.0  | 557.5  | 557.5  | 557.5  | 558.1  | 559.2  | 559.2  | 560.8  | 560.3  |
| 10°   | 580.6  | 580.1  | 580.6  | 582.3  | 583.9  | 584.5  | 586.1  | 585.6  | 586.7  | 588.9  | 591.1  |
| 12.5° | 607.6  | 608.7  | 610.3  | 612.0  | 614.7  | 615.3  | 616.9  | 617.5  | 620.8  | 620.8  | 623.0  |
| 15°   | 637.9  | 638.4  | 641.7  | 642.3  | 645.6  | 646.7  | 649.4  | 650.5  | 654.4  | 654.9  | 657.1  |
| 17.5° | 665.4  | 666.5  | 668.1  | 669.8  | 673.6  | 675.3  | 677.5  | 679.7  | 683.0  | 684.1  | 687.9  |
| 20°   | 687.4  | 689.6  | 690.1  | 693.4  | 696.7  | 698.9  | 701.1  | 703.3  | 706.6  | 708.3  | 712.2  |
| 22.5° | 707.2  | 709.4  | 711.1  | 713.8  | 716.0  | 719.3  | 720.4  | 724.3  | 727.6  | 730.3  | 733.6  |
| 25°   | 728.7  | 732.0  | 733.6  | 738.6  | 740.2  | 743.5  | 746.3  | 750.1  | 754.5  | 757.8  | 762.2  |
| 27.5° | 758.9  | 763.9  | 766.1  | 771.6  | 775.4  | 777.1  | 781.5  | 787.0  | 790.9  | 794.7  | 799.1  |
| 30°   | 800.8  | 810.1  | 811.8  | 815.6  | 822.8  | 823.9  | 829.4  | 833.8  | 839.8  | 843.7  | 847.5  |
| 32.5° | 865.7  | 877.3  | 878.4  | 882.8  | 888.8  | 891.0  | 895.4  | 900.4  | 909.7  | 911.4  | 917.4  |
| 35°   | 965.3  | 970.3  | 974.7  | 976.3  | 981.3  | 984.0  | 987.3  | 992.8  | 1002.2 | 1001.1 | 1007.7 |
| 37.5° | 1084.7 | 1086.4 | 1086.9 | 1081.4 | 1082.5 | 1077.6 | 1083.6 | 1084.7 | 1088.0 | 1090.8 | 1097.4 |
| 40°   | 1255.3 | 1238.3 | 1236.1 | 1222.9 | 1209.7 | 1202.5 | 1199.8 | 1188.8 | 1191.5 | 1192.6 | 1198.1 |
| 42.5° | 1504.7 | 1471.6 | 1444.1 | 1425.4 | 1392.9 | 1377.0 | 1355.5 | 1338.5 | 1325.2 | 1330.2 | 1332.4 |
| 45°   | 1820.6 | 1773.2 | 1729.2 | 1672.0 | 1629.6 | 1599.3 | 1561.3 | 1527.2 | 1511.8 | 1504.7 | 1513.5 |
| 47.5° | 2135.9 | 2094.1 | 2042.3 | 1983.5 | 1916.3 | 1866.2 | 1802.9 | 1747.4 | 1708.8 | 1694.5 | 1702.2 |
| 50°   | 2408.3 | 2369.8 | 2330.7 | 2296.1 | 2217.9 | 2163.4 | 2077.0 | 2004.9 | 1944.4 | 1913.6 | 1905.3 |
| 52.5° | 2634.5 | 2614.2 | 2593.2 | 2564.1 | 2501.3 | 2446.9 | 2378.1 | 2307.1 | 2226.7 | 2164.0 | 2142.5 |
| 55°   | 2836.5 | 2848.6 | 2838.2 | 2838.7 | 2813.9 | 2779.3 | 2720.9 | 2668.1 | 2612.0 | 2541.0 | 2511.2 |
| 57.5° | 3130.9 | 3202.5 | 3216.8 | 3252.6 | 3270.2 | 3288.9 | 3305.4 | 3274.0 | 3259.7 | 3206.9 | 3207.4 |
| 60°   | 3594.9 | 3699.5 | 3790.3 | 3872.8 | 3940.5 | 4006.5 | 4075.9 | 4106.7 | 4140.8 | 4156.8 | 4211.3 |
| 62.5° | 4088.5 | 4188.2 | 4323.5 | 4434.2 | 4496.4 | 4582.2 | 4657.6 | 4706.6 | 4766.6 | 4830.4 | 4913.5 |
| 65°   | 4210.7 | 4330.7 | 4416.0 | 4489.8 | 4551.4 | 4597.1 | 4638.3 | 4696.7 | 4746.8 | 4848.0 | 4946.0 |
| 67.5° | 3897.6 | 3993.3 | 4071.5 | 4144.1 | 4192.0 | 4230.5 | 4267.4 | 4305.9 | 4391.8 | 4483.7 | 4582.2 |
| 70°   | 3345.6 | 3461.2 | 3590.5 | 3684.6 | 3708.3 | 3741.3 | 3776.5 | 3826.6 | 3869.5 | 3965.8 | 4040.7 |
| 72.5° | 2687.9 | 2854.1 | 2963.6 | 3094.1 | 3122.1 | 3172.2 | 3192.0 | 3231.1 | 3238.8 | 3291.1 | 3310.9 |
| 75°   | 1873.4 | 2063.8 | 2173.9 | 2269.6 | 2288.4 | 2260.8 | 2271.8 | 2133.7 | 2098.5 | 2069.9 | 2046.8 |
| 77.5° | 1236.6 | 1287.8 | 1305.4 | 1290.0 | 1216.3 | 1158.5 | 1096.8 | 1036.3 | 1042.9 | 993.9  | 908.1  |
| 80°   | 1099.6 | 1111.2 | 1095.2 | 1079.8 | 1037.4 | 976.9  | 921.3  | 864.6  | 836.5  | 806.8  | 762.8  |
| 82.5° | 1069.9 | 1114.5 | 1119.4 | 1100.7 | 1067.1 | 1001.1 | 933.9  | 849.7  | 778.2  | 712.2  | 645.0  |
| 85°   | 357.7  | 435.3  | 470.0  | 502.5  | 512.4  | 523.9  | 484.3  | 430.4  | 365.4  | 322.0  | 252.1  |
| 87.5° | 45.7   | 56.7   | 65.5   | 56.1   | 65.5   | 77.0   | 55.6   | 62.2   | 62.7   | 39.1   | 29.2   |
| 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: P149815

CATALOG NUMBER: VXM-F02-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  |
| 2.5°  | 527.8  | 527.2  | 527.2  | 527.2  | 526.7  | 527.2  | 527.2  | 527.2  | 527.2  | 527.2  | 526.7  |
| 5°    | 539.9  | 539.9  | 541.5  | 542.1  | 541.0  | 540.4  | 541.0  | 541.5  | 541.5  | 541.0  | 541.5  |
| 7.5°  | 562.5  | 563.0  | 564.1  | 565.8  | 564.7  | 565.2  | 565.8  | 565.2  | 566.9  | 567.4  | 566.9  |
| 10°   | 591.1  | 592.2  | 594.9  | 595.5  | 594.9  | 597.1  | 597.7  | 596.6  | 597.7  | 597.7  | 599.9  |
| 12.5° | 624.1  | 625.2  | 628.5  | 629.6  | 630.7  | 631.3  | 632.9  | 633.5  | 635.1  | 636.2  | 637.9  |
| 15°   | 659.9  | 661.0  | 663.2  | 667.0  | 668.1  | 669.2  | 670.3  | 673.6  | 674.2  | 676.4  | 678.0  |
| 17.5° | 690.1  | 691.8  | 695.1  | 697.8  | 699.5  | 702.2  | 703.3  | 707.2  | 708.3  | 711.6  | 714.4  |
| 20°   | 714.4  | 717.1  | 719.9  | 723.2  | 725.9  | 729.2  | 730.3  | 734.2  | 736.4  | 738.0  | 741.3  |
| 22.5° | 736.4  | 739.7  | 743.5  | 747.4  | 749.6  | 754.0  | 755.6  | 757.3  | 762.2  | 764.4  | 767.7  |
| 25°   | 765.0  | 768.3  | 772.7  | 777.6  | 779.8  | 785.3  | 787.0  | 789.8  | 795.3  | 797.5  | 802.4  |
| 27.5° | 804.1  | 808.5  | 811.8  | 816.7  | 819.5  | 823.3  | 827.2  | 830.5  | 835.4  | 838.7  | 844.2  |
| 30°   | 853.0  | 856.3  | 861.8  | 865.7  | 870.1  | 875.6  | 880.0  | 883.3  | 886.1  | 891.0  | 897.1  |
| 32.5° | 925.1  | 925.7  | 927.3  | 936.7  | 941.1  | 945.5  | 951.6  | 954.3  | 958.7  | 963.7  | 970.3  |
| 35°   | 1014.8 | 1019.8 | 1023.7 | 1028.1 | 1033.0 | 1038.0 | 1040.2 | 1048.4 | 1052.3 | 1058.9 | 1065.5 |
| 37.5° | 1104.0 | 1104.6 | 1113.4 | 1116.1 | 1120.5 | 1125.5 | 1133.2 | 1141.4 | 1151.3 | 1157.9 | 1168.4 |
| 40°   | 1199.8 | 1204.2 | 1215.2 | 1220.7 | 1226.2 | 1238.3 | 1244.3 | 1257.5 | 1274.1 | 1283.4 | 1301.0 |
| 42.5° | 1338.5 | 1345.1 | 1364.9 | 1373.7 | 1386.9 | 1406.7 | 1419.4 | 1437.5 | 1444.1 | 1466.7 | 1474.9 |
| 45°   | 1520.1 | 1540.4 | 1569.0 | 1587.8 | 1611.4 | 1632.9 | 1643.9 | 1652.2 | 1662.1 | 1679.7 | 1677.5 |
| 47.5° | 1716.5 | 1743.0 | 1774.9 | 1813.4 | 1828.8 | 1854.1 | 1868.4 | 1884.4 | 1875.6 | 1871.2 | 1866.8 |
| 50°   | 1918.0 | 1948.8 | 1991.2 | 2025.8 | 2049.5 | 2064.9 | 2077.0 | 2074.8 | 2056.1 | 2046.2 | 2018.7 |
| 52.5° | 2142.0 | 2160.1 | 2200.3 | 2230.0 | 2244.3 | 2247.6 | 2244.9 | 2228.4 | 2210.8 | 2179.4 | 2146.9 |
| 55°   | 2485.4 | 2477.1 | 2493.1 | 2506.8 | 2502.4 | 2517.9 | 2478.2 | 2462.8 | 2419.3 | 2378.6 | 2335.1 |
| 57.5° | 3183.2 | 3194.2 | 3105.1 | 3064.9 | 3057.7 | 3072.1 | 3002.2 | 2993.4 | 2888.2 | 2875.0 | 2801.8 |
| 60°   | 4203.6 | 4257.5 | 4187.6 | 4148.5 | 4042.9 | 4008.2 | 3930.0 | 3897.6 | 3796.9 | 3715.4 | 3612.5 |
| 62.5° | 4970.8 | 5019.7 | 5048.9 | 4993.3 | 4931.7 | 4840.9 | 4722.6 | 4591.6 | 4484.8 | 4359.9 | 4250.9 |
| 65°   | 5040.1 | 5139.2 | 5206.3 | 5232.2 | 5188.7 | 5089.1 | 4943.2 | 4778.1 | 4614.7 | 4457.8 | 4320.2 |
| 67.5° | 4715.9 | 4804.6 | 4908.6 | 5001.6 | 5007.1 | 4942.1 | 4817.8 | 4649.9 | 4461.1 | 4267.4 | 4106.2 |
| 70°   | 4159.0 | 4270.2 | 4361.0 | 4458.9 | 4527.2 | 4489.8 | 4427.6 | 4273.5 | 4077.5 | 3926.7 | 3741.3 |
| 72.5° | 3382.5 | 3429.2 | 3451.2 | 3547.6 | 3548.7 | 3480.4 | 3436.4 | 3351.1 | 3193.1 | 3086.4 | 2944.9 |
| 75°   | 1975.2 | 1872.3 | 1762.8 | 1667.6 | 1590.0 | 1557.5 | 1413.3 | 1389.1 | 1292.2 | 1232.2 | 1144.2 |
| 77.5° | 814.5  | 722.6  | 604.3  | 505.8  | 408.4  | 364.3  | 300.5  | 272.4  | 236.1  | 220.1  | 209.7  |
| 80°   | 698.4  | 611.4  | 522.3  | 437.0  | 361.0  | 285.1  | 221.8  | 172.3  | 135.4  | 115.0  | 106.8  |
| 82.5° | 570.2  | 517.9  | 455.7  | 409.5  | 350.0  | 293.3  | 247.7  | 192.1  | 143.6  | 105.7  | 80.9   |
| 85°   | 205.8  | 169.0  | 135.9  | 124.9  | 99.6   | 82.0   | 68.8   | 58.9   | 48.4   | 38.5   | 34.1   |
| 87.5° | 23.1   | 22.0   | 12.7   | 12.1   | 13.8   | 9.9    | 11.6   | 10.5   | 8.8    | 7.7    | 8.3    |
| 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: P149815

CATALOG NUMBER: VXM-F02-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0  | 525.0 | 525.0 | 525.0 | 525.0 | 525.0 |
| 2.5°  | 526.7  | 526.7  | 527.2  | 527.2  | 527.8  | 528.3  | 529.4 | 528.9 | 528.9 | 529.4 | 529.4 |
| 5°    | 541.5  | 543.2  | 542.6  | 542.6  | 542.6  | 543.2  | 543.7 | 541.5 | 539.3 | 537.1 | 536.0 |
| 7.5°  | 567.4  | 568.5  | 569.6  | 568.5  | 569.6  | 569.1  | 568.0 | 561.9 | 554.8 | 545.9 | 539.9 |
| 10°   | 601.0  | 601.0  | 602.1  | 601.5  | 603.7  | 602.1  | 598.8 | 585.0 | 569.6 | 550.9 | 537.1 |
| 12.5° | 637.3  | 641.2  | 639.5  | 640.1  | 644.5  | 640.1  | 632.4 | 612.0 | 584.5 | 554.2 | 530.0 |
| 15°   | 680.2  | 681.9  | 683.0  | 681.3  | 684.1  | 680.2  | 666.5 | 634.0 | 593.8 | 551.5 | 515.7 |
| 17.5° | 715.5  | 716.0  | 716.6  | 717.7  | 721.5  | 717.1  | 693.4 | 649.4 | 596.0 | 538.8 | 491.5 |
| 20°   | 743.0  | 745.7  | 747.9  | 747.9  | 753.4  | 746.8  | 715.5 | 657.1 | 588.9 | 517.9 | 460.6 |
| 22.5° | 771.6  | 773.8  | 776.5  | 777.1  | 784.2  | 777.6  | 733.6 | 655.5 | 570.2 | 488.2 | 424.9 |
| 25°   | 806.8  | 809.0  | 811.2  | 814.0  | 823.9  | 814.5  | 751.8 | 648.9 | 544.3 | 452.9 | 386.3 |
| 27.5° | 847.5  | 852.5  | 854.1  | 858.5  | 870.1  | 855.8  | 767.2 | 639.0 | 515.7 | 412.2 | 345.6 |
| 30°   | 902.0  | 908.1  | 910.3  | 916.3  | 932.3  | 900.9  | 776.0 | 621.9 | 479.4 | 370.9 | 302.1 |
| 32.5° | 975.2  | 983.5  | 990.1  | 996.7  | 1014.8 | 946.1  | 777.1 | 597.1 | 437.0 | 324.7 | 260.3 |
| 35°   | 1071.0 | 1083.6 | 1088.6 | 1093.0 | 1110.1 | 995.0  | 772.1 | 560.3 | 385.2 | 277.4 | 227.3 |
| 37.5° | 1178.3 | 1191.0 | 1194.3 | 1196.5 | 1199.8 | 1036.9 | 760.0 | 504.1 | 326.9 | 236.1 | 200.9 |
| 40°   | 1310.4 | 1321.4 | 1325.8 | 1322.5 | 1304.9 | 1069.3 | 733.1 | 438.6 | 270.2 | 208.0 | 184.4 |
| 42.5° | 1471.6 | 1488.1 | 1489.8 | 1474.9 | 1416.6 | 1087.5 | 679.1 | 361.6 | 225.6 | 187.7 | 171.7 |
| 45°   | 1671.4 | 1670.3 | 1661.0 | 1650.5 | 1538.2 | 1080.3 | 603.7 | 294.4 | 197.6 | 171.7 | 160.2 |
| 47.5° | 1850.8 | 1832.1 | 1817.8 | 1787.0 | 1645.5 | 1038.5 | 506.3 | 243.8 | 180.5 | 159.6 | 150.2 |
| 50°   | 1997.8 | 1963.6 | 1933.4 | 1899.8 | 1725.3 | 964.2  | 409.5 | 206.9 | 164.6 | 149.1 | 140.9 |
| 52.5° | 2113.9 | 2072.6 | 2037.4 | 2004.4 | 1802.4 | 881.7  | 335.7 | 180.0 | 149.1 | 138.7 | 130.4 |
| 55°   | 2295.5 | 2254.2 | 2198.1 | 2161.8 | 1920.2 | 805.7  | 287.8 | 158.5 | 134.3 | 127.7 | 119.4 |
| 57.5° | 2755.1 | 2718.7 | 2651.6 | 2557.5 | 2222.9 | 777.1  | 260.9 | 142.0 | 122.2 | 118.3 | 111.7 |
| 60°   | 3557.5 | 3498.6 | 3411.1 | 3315.3 | 2838.2 | 796.4  | 239.4 | 130.4 | 113.9 | 110.6 | 105.7 |
| 62.5° | 4162.8 | 4059.4 | 3960.3 | 3871.7 | 3330.2 | 795.8  | 211.3 | 121.6 | 107.9 | 106.2 | 101.3 |
| 65°   | 4187.6 | 4082.5 | 3982.9 | 3889.9 | 3341.2 | 708.3  | 178.3 | 113.9 | 106.8 | 106.2 | 98.0  |
| 67.5° | 3965.3 | 3851.3 | 3755.0 | 3637.8 | 3093.0 | 553.7  | 143.1 | 109.0 | 111.2 | 110.1 | 96.9  |
| 70°   | 3602.0 | 3453.4 | 3374.2 | 3258.6 | 2722.0 | 387.4  | 117.8 | 110.6 | 120.5 | 117.2 | 98.5  |
| 72.5° | 2827.1 | 2714.9 | 2594.3 | 2514.0 | 2131.0 | 244.9  | 99.1  | 111.7 | 124.4 | 118.9 | 102.9 |
| 75°   | 1052.3 | 1082.5 | 1033.0 | 1015.4 | 1082.5 | 143.6  | 88.1  | 104.0 | 111.2 | 102.9 | 93.6  |
| 77.5° | 212.4  | 203.1  | 192.6  | 190.4  | 246.0  | 88.6   | 80.9  | 90.3  | 85.3  | 75.4  | 75.9  |
| 80°   | 101.8  | 99.1   | 95.8   | 95.2   | 91.4   | 73.7   | 74.8  | 77.0  | 64.4  | 58.3  | 62.2  |
| 82.5° | 67.7   | 63.8   | 62.7   | 60.5   | 61.6   | 66.0   | 71.0  | 66.0  | 49.5  | 46.2  | 56.1  |
| 85°   | 31.4   | 30.3   | 29.7   | 29.7   | 33.0   | 59.4   | 58.9  | 48.4  | 34.1  | 33.0  | 56.1  |
| 87.5° | 7.7    | 7.7    | 8.3    | 7.7    | 8.8    | 17.6   | 15.4  | 14.9  | 12.7  | 14.3  | 26.4  |
| 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: P149815

CATALOG NUMBER: VXM-F02-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 525.0 | 525.0 | 525.0 |
| 2.5°  | 528.9 | 529.4 | 528.9 |
| 5°    | 533.8 | 533.8 | 533.8 |
| 7.5°  | 533.8 | 532.2 | 531.6 |
| 10°   | 526.1 | 521.2 | 521.2 |
| 12.5° | 512.9 | 504.7 | 503.6 |
| 15°   | 488.2 | 477.2 | 475.5 |
| 17.5° | 456.8 | 441.9 | 439.2 |
| 20°   | 421.6 | 402.9 | 399.6 |
| 22.5° | 383.0 | 361.6 | 359.9 |
| 25°   | 345.1 | 323.1 | 318.7 |
| 27.5° | 302.7 | 281.2 | 279.0 |
| 30°   | 260.3 | 241.6 | 240.5 |
| 32.5° | 224.5 | 213.0 | 210.8 |
| 35°   | 199.2 | 192.6 | 189.9 |
| 37.5° | 182.7 | 177.8 | 177.2 |
| 40°   | 170.1 | 165.7 | 165.1 |
| 42.5° | 159.6 | 155.7 | 155.2 |
| 45°   | 149.1 | 145.8 | 144.7 |
| 47.5° | 138.7 | 135.4 | 134.8 |
| 50°   | 129.3 | 124.9 | 124.4 |
| 52.5° | 120.5 | 116.1 | 115.0 |
| 55°   | 112.3 | 107.9 | 107.9 |
| 57.5° | 105.1 | 100.7 | 100.2 |
| 60°   | 98.5  | 94.1  | 93.6  |
| 62.5° | 93.6  | 88.1  | 87.5  |
| 65°   | 89.7  | 84.2  | 83.1  |
| 67.5° | 87.5  | 80.9  | 79.3  |
| 70°   | 91.4  | 79.3  | 76.5  |
| 72.5° | 91.9  | 77.6  | 73.7  |
| 75°   | 88.6  | 73.2  | 70.4  |
| 77.5° | 77.6  | 65.5  | 62.7  |
| 80°   | 67.1  | 50.6  | 46.8  |
| 82.5° | 63.8  | 41.3  | 35.8  |
| 85°   | 49.5  | 27.0  | 25.3  |
| 87.5° | 28.1  | 14.9  | 12.1  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)