

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: P151025

Luminaire Tested: **VXS-F03-LED-E1-SL3**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P151025  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-F03-LED-E1-SL3  
Description: VISION SITE SMALL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7519.3 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3  
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

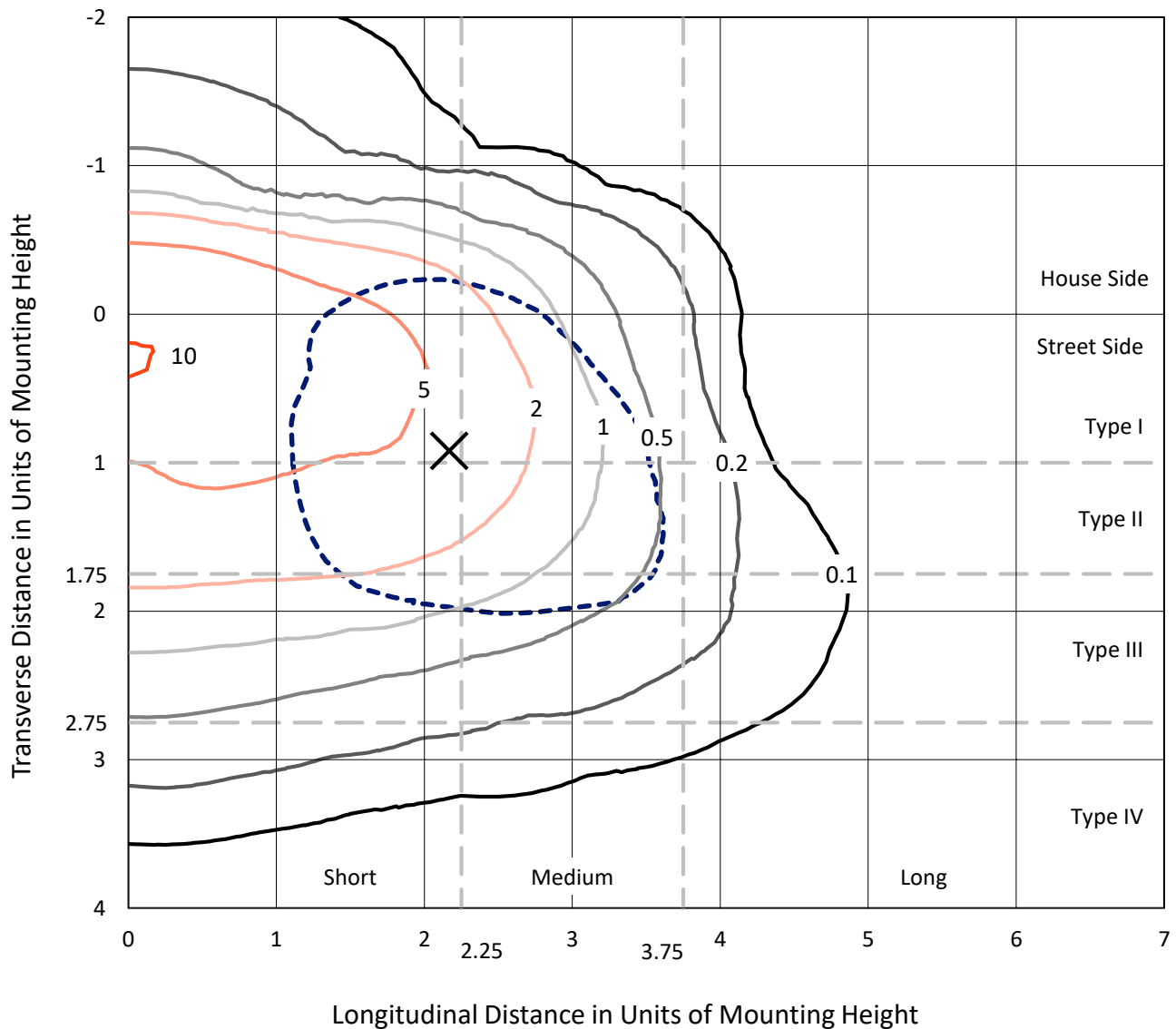


REPORT NUMBER: P151025

CATALOG NUMBER: VXS-F03-LED-E1-SL3

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

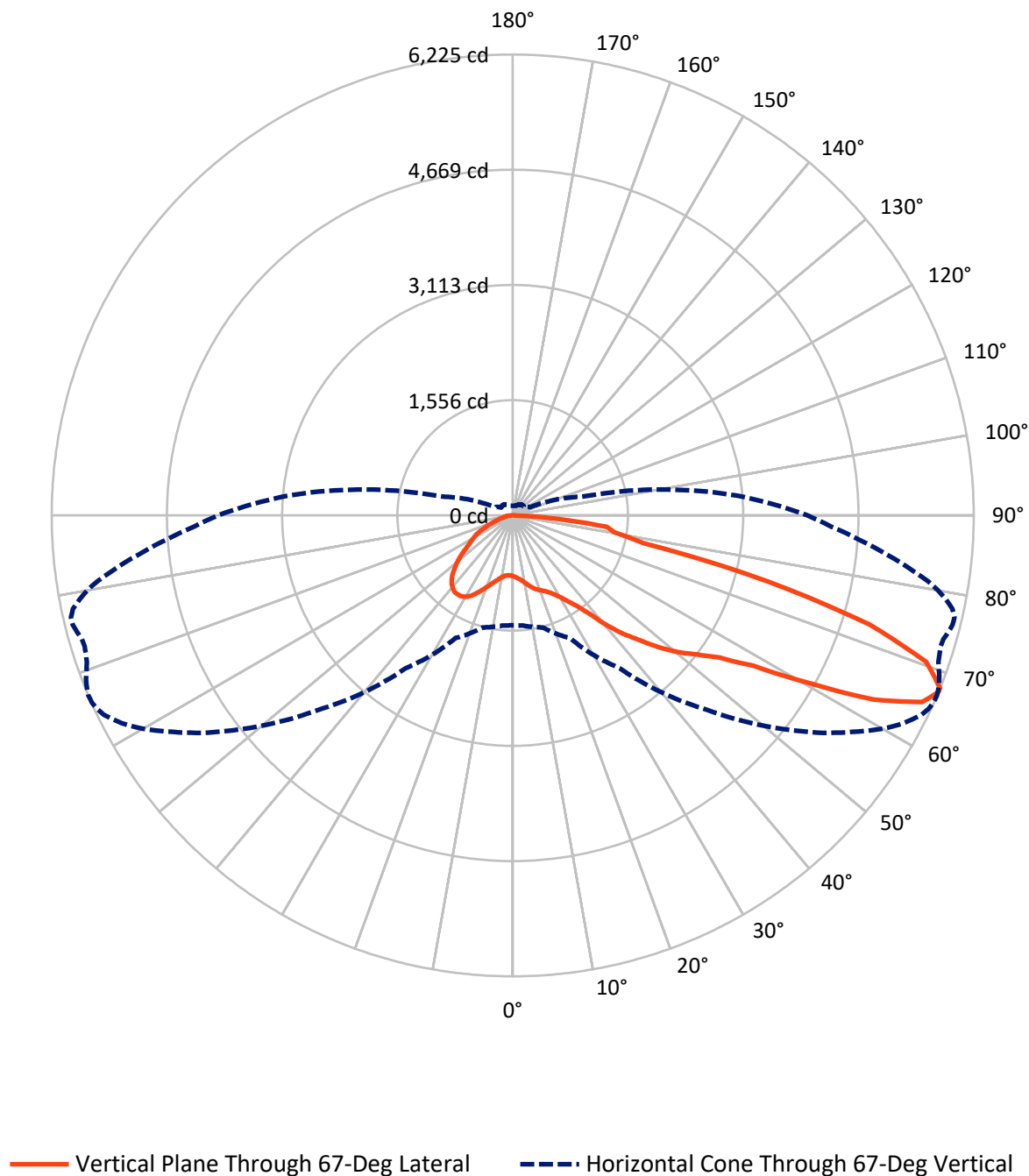


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc  
Type III - Short - Semi-Cutoff

REPORT NUMBER: P151025

CATALOG NUMBER: VXS-F03-LED-E1-SL3

## Luminous Intensity Polar Plot



REPORT NUMBER: P151025

CATALOG NUMBER: VXS-F03-LED-E1-SL3

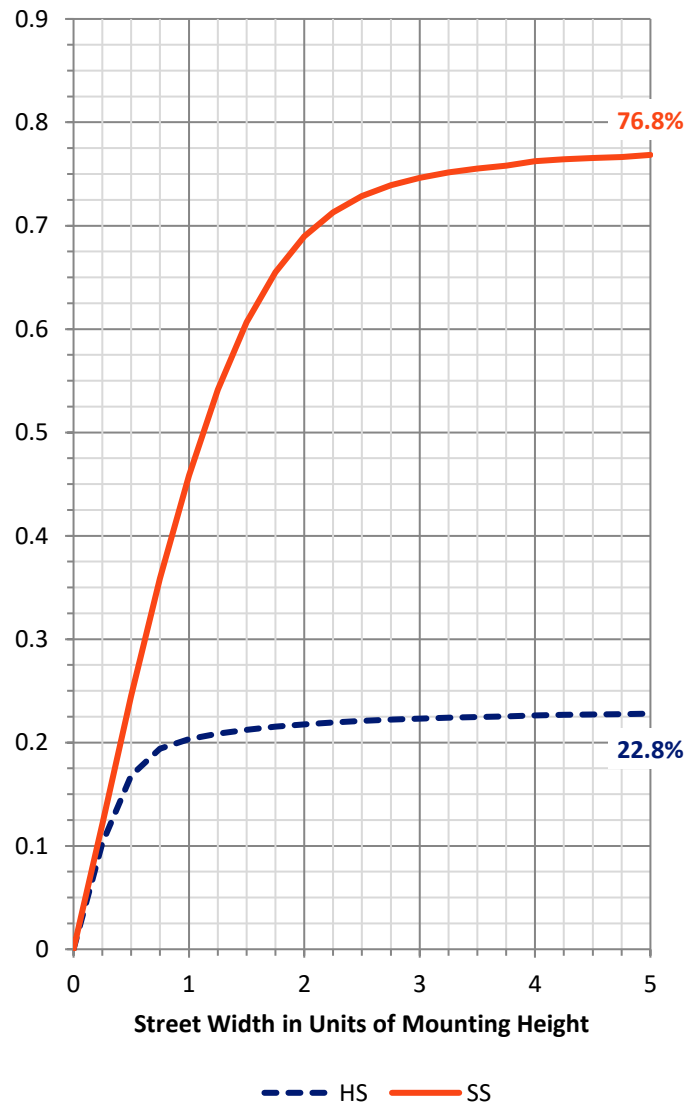
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1735.2   | 0.0    | 1735.2 |
|                    | % Fixture | 23.1     | 0.0    | 23.1   |
| <b>Street Side</b> | Lumens    | 5784.1   | 0.0    | 5784.1 |
|                    | % Fixture | 76.9     | 0.0    | 76.9   |
| <b>Total</b>       | Lumens    | 7519.3   | 0.0    | 7519.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.8   | 1.1       |
| 10°-20°   | 280.4  | 3.7       |
| 20°-30°   | 495.1  | 6.6       |
| 30°-40°   | 710.7  | 9.5       |
| 40°-50°   | 1079.4 | 14.4      |
| 50°-60°   | 1589.3 | 21.1      |
| 60°-70°   | 2112.1 | 28.1      |
| 70°-80°   | 1033.3 | 13.7      |
| 80°-90°   | 137.2  | 1.8       |
| 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°    | 7519.3 | 100.0     |
| 0°-180°   | 7519.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P151025

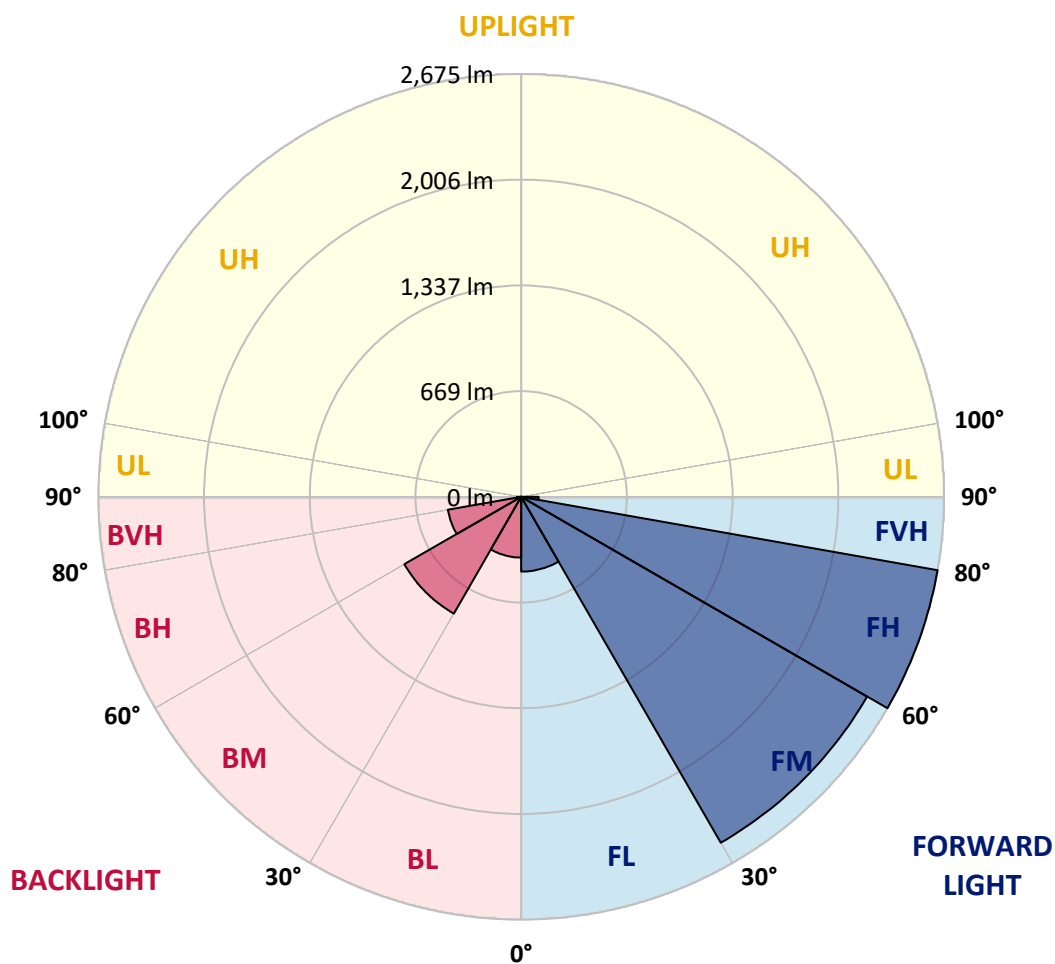
CATALOG NUMBER: VXS-F03-LED-E1-SL3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 473.0  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 2526.3 | 33.6      |                         |      |         |
| FH   | (60°-80°)   | 2674.5 | 35.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 110.2  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 384.3  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 853.1  | 11.3      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 470.8  | 6.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 27.0   | 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-G2**

Type III Short



REPORT NUMBER: P151025

CATALOG NUMBER: VXS-F03-LED-E1-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  |
| 2.5°  | 860.2  | 861.0  | 859.4  | 858.5  | 853.6  | 848.6  | 845.4  | 841.2  | 841.2  | 841.2  | 839.6  |
| 5°    | 908.9  | 905.6  | 908.1  | 902.3  | 892.4  | 883.3  | 874.2  | 866.8  | 865.2  | 865.2  | 861.9  |
| 7.5°  | 967.6  | 963.4  | 961.8  | 953.5  | 938.7  | 925.4  | 907.3  | 899.8  | 895.6  | 894.1  | 892.4  |
| 10°   | 1038.5 | 1038.5 | 1027.8 | 1013.8 | 993.9  | 970.8  | 951.0  | 937.8  | 937.0  | 937.0  | 929.5  |
| 12.5° | 1111.2 | 1112.8 | 1098.8 | 1084.8 | 1052.5 | 1022.0 | 998.9  | 984.0  | 983.2  | 979.9  | 975.8  |
| 15°   | 1178.0 | 1173.9 | 1164.8 | 1144.1 | 1108.7 | 1072.3 | 1043.4 | 1028.6 | 1025.3 | 1022.0 | 1019.5 |
| 17.5° | 1233.4 | 1229.2 | 1217.6 | 1191.2 | 1154.1 | 1111.2 | 1075.6 | 1060.0 | 1058.3 | 1056.7 | 1053.4 |
| 20°   | 1268.0 | 1264.7 | 1248.2 | 1217.6 | 1178.9 | 1135.1 | 1097.1 | 1086.4 | 1083.1 | 1083.1 | 1081.5 |
| 22.5° | 1287.8 | 1282.9 | 1259.0 | 1218.4 | 1180.5 | 1148.3 | 1116.9 | 1110.4 | 1107.9 | 1108.7 | 1108.7 |
| 25°   | 1297.7 | 1293.6 | 1259.8 | 1202.0 | 1165.6 | 1156.6 | 1143.3 | 1139.3 | 1140.0 | 1140.8 | 1142.5 |
| 27.5° | 1299.4 | 1293.6 | 1254.0 | 1180.5 | 1146.6 | 1172.2 | 1181.3 | 1188.0 | 1188.0 | 1191.2 | 1197.0 |
| 30°   | 1286.9 | 1280.4 | 1242.4 | 1164.0 | 1138.4 | 1203.6 | 1239.9 | 1257.3 | 1263.8 | 1262.2 | 1275.4 |
| 32.5° | 1265.5 | 1261.5 | 1230.9 | 1164.0 | 1161.6 | 1265.5 | 1329.9 | 1354.7 | 1358.0 | 1359.7 | 1374.5 |
| 35°   | 1258.1 | 1257.3 | 1244.0 | 1203.6 | 1233.4 | 1374.5 | 1472.7 | 1491.7 | 1495.9 | 1495.9 | 1506.6 |
| 37.5° | 1256.5 | 1260.6 | 1275.4 | 1277.9 | 1359.7 | 1536.3 | 1665.1 | 1694.0 | 1694.0 | 1702.3 | 1702.3 |
| 40°   | 1256.5 | 1265.5 | 1321.7 | 1388.5 | 1514.0 | 1746.8 | 1925.1 | 1958.1 | 1958.1 | 1967.3 | 1962.3 |
| 42.5° | 1305.2 | 1318.3 | 1410.8 | 1537.9 | 1708.8 | 1963.9 | 2168.7 | 2205.8 | 2208.3 | 2205.8 | 2213.3 |
| 45°   | 1400.9 | 1412.4 | 1524.8 | 1707.2 | 1909.4 | 2196.7 | 2401.5 | 2446.0 | 2437.0 | 2442.7 | 2445.2 |
| 47.5° | 1528.1 | 1546.2 | 1674.2 | 1892.1 | 2105.1 | 2412.2 | 2662.3 | 2702.8 | 2699.5 | 2702.0 | 2691.2 |
| 50°   | 1663.4 | 1682.4 | 1825.3 | 2075.3 | 2299.9 | 2585.6 | 2872.0 | 2932.2 | 2926.5 | 2930.6 | 2936.4 |
| 52.5° | 1783.1 | 1794.7 | 1932.5 | 2213.3 | 2447.7 | 2747.4 | 3033.0 | 3108.1 | 3121.3 | 3123.0 | 3127.0 |
| 55°   | 1854.1 | 1868.2 | 1994.5 | 2281.8 | 2555.0 | 2905.8 | 3217.1 | 3331.0 | 3356.6 | 3363.2 | 3381.3 |
| 57.5° | 1878.9 | 1893.8 | 2008.5 | 2291.6 | 2613.6 | 3054.4 | 3473.8 | 3674.4 | 3695.9 | 3731.4 | 3789.1 |
| 60°   | 1878.0 | 1893.8 | 1993.7 | 2269.3 | 2673.1 | 3238.5 | 3873.4 | 4209.3 | 4318.3 | 4354.6 | 4437.2 |
| 62.5° | 1801.3 | 1819.5 | 1921.0 | 2201.7 | 2749.0 | 3473.8 | 4467.8 | 4984.6 | 5124.9 | 5190.9 | 5280.1 |
| 65°   | 1632.8 | 1646.1 | 1741.0 | 2029.9 | 2727.6 | 3705.8 | 4964.7 | 5609.4 | 5737.4 | 5834.0 | 5993.3 |
| 67°   | 1483.4 | 1491.7 | 1566.0 | 1826.8 | 2517.8 | 3714.0 | 5121.6 | 5764.7 | 5876.1 | 5978.4 | 6142.7 |
| 67.5° | 1445.5 | 1462.8 | 1520.6 | 1765.0 | 2439.4 | 3666.9 | 5110.8 | 5740.7 | 5854.6 | 5961.1 | 6134.5 |
| 70°   | 1176.4 | 1201.1 | 1230.1 | 1394.3 | 1917.7 | 3085.0 | 4731.9 | 5326.3 | 5426.2 | 5525.3 | 5767.2 |
| 72.5° | 725.6  | 770.3  | 776.0  | 880.0  | 1248.2 | 2132.3 | 3828.8 | 4491.7 | 4566.8 | 4637.8 | 4885.5 |
| 75°   | 427.7  | 434.2  | 454.8  | 539.1  | 732.2  | 1274.6 | 2569.0 | 3336.8 | 3406.1 | 3440.8 | 3634.8 |
| 77.5° | 238.5  | 245.2  | 262.5  | 335.1  | 563.0  | 858.5  | 1495.9 | 1960.6 | 2002.7 | 2046.4 | 2015.1 |
| 80°   | 99.1   | 108.2  | 116.4  | 135.3  | 263.3  | 677.7  | 1028.6 | 1246.5 | 1273.8 | 1299.4 | 1331.6 |
| 82.5° | 47.9   | 51.2   | 62.7   | 71.8   | 95.8   | 278.2  | 806.5  | 1080.6 | 1112.8 | 1149.9 | 1225.1 |
| 85°   | 22.3   | 24.8   | 34.7   | 41.2   | 46.2   | 70.2   | 269.9  | 525.9  | 570.5  | 578.7  | 593.6  |
| 87.5° | 1.7    | 1.7    | 4.1    | 5.8    | 8.3    | 9.1    | 28.1   | 39.6   | 44.6   | 40.4   | 51.2   |
| 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: P151025

CATALOG NUMBER: VXS-F03-LED-E1-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  |
| 2.5°  | 838.8  | 837.9  | 836.3  | 836.3  | 835.4  | 835.4  | 835.4  | 833.8  | 833.8  | 833.8  | 833.0  |
| 5°    | 861.0  | 860.2  | 857.7  | 857.7  | 856.1  | 856.1  | 853.6  | 852.7  | 851.1  | 851.1  | 850.3  |
| 7.5°  | 889.9  | 889.1  | 885.8  | 885.8  | 883.3  | 882.5  | 880.8  | 878.3  | 878.3  | 876.7  | 875.0  |
| 10°   | 929.5  | 927.0  | 926.2  | 922.1  | 922.9  | 921.2  | 919.6  | 917.2  | 915.5  | 913.9  | 912.2  |
| 12.5° | 974.1  | 974.1  | 969.9  | 967.6  | 969.1  | 967.6  | 964.2  | 963.4  | 960.9  | 960.9  | 958.4  |
| 15°   | 1016.3 | 1016.3 | 1014.6 | 1011.3 | 1012.1 | 1009.6 | 1008.8 | 1007.2 | 1003.8 | 1004.7 | 1003.8 |
| 17.5° | 1052.5 | 1052.5 | 1050.1 | 1048.4 | 1048.4 | 1045.9 | 1046.7 | 1045.1 | 1043.4 | 1042.6 | 1040.2 |
| 20°   | 1081.5 | 1081.5 | 1079.8 | 1078.1 | 1079.0 | 1079.0 | 1076.5 | 1076.5 | 1076.5 | 1074.8 | 1074.8 |
| 22.5° | 1109.5 | 1110.4 | 1110.4 | 1110.4 | 1111.2 | 1112.0 | 1111.2 | 1112.8 | 1112.0 | 1113.7 | 1113.7 |
| 25°   | 1146.6 | 1149.1 | 1150.8 | 1150.8 | 1154.9 | 1155.8 | 1156.6 | 1159.1 | 1159.1 | 1161.6 | 1162.4 |
| 27.5° | 1202.0 | 1203.6 | 1210.3 | 1211.9 | 1212.7 | 1219.3 | 1220.1 | 1223.4 | 1226.7 | 1227.6 | 1228.4 |
| 30°   | 1277.9 | 1282.1 | 1286.9 | 1290.3 | 1290.3 | 1298.5 | 1301.9 | 1300.2 | 1309.3 | 1311.7 | 1315.0 |
| 32.5° | 1379.5 | 1382.8 | 1387.7 | 1391.0 | 1394.3 | 1398.4 | 1399.3 | 1403.4 | 1410.8 | 1417.4 | 1413.3 |
| 35°   | 1507.4 | 1515.6 | 1507.4 | 1516.5 | 1519.0 | 1524.8 | 1523.1 | 1528.1 | 1531.4 | 1533.8 | 1533.0 |
| 37.5° | 1693.2 | 1689.0 | 1687.4 | 1684.0 | 1678.3 | 1698.1 | 1688.2 | 1687.4 | 1682.4 | 1696.5 | 1687.4 |
| 40°   | 1937.5 | 1940.0 | 1942.5 | 1929.2 | 1921.9 | 1921.9 | 1919.4 | 1910.3 | 1906.1 | 1918.5 | 1916.9 |
| 42.5° | 2192.6 | 2195.0 | 2183.5 | 2175.2 | 2156.3 | 2153.8 | 2142.3 | 2139.8 | 2135.6 | 2142.3 | 2135.6 |
| 45°   | 2424.6 | 2426.2 | 2400.6 | 2404.8 | 2389.8 | 2392.3 | 2374.2 | 2381.7 | 2371.7 | 2378.3 | 2390.7 |
| 47.5° | 2683.7 | 2687.0 | 2664.8 | 2673.9 | 2659.1 | 2649.9 | 2649.1 | 2654.1 | 2643.3 | 2649.9 | 2653.3 |
| 50°   | 2919.1 | 2914.9 | 2903.4 | 2905.8 | 2899.3 | 2900.9 | 2891.0 | 2900.1 | 2887.7 | 2900.9 | 2899.3 |
| 52.5° | 3127.9 | 3123.0 | 3120.5 | 3128.7 | 3123.0 | 3123.0 | 3117.2 | 3121.3 | 3123.0 | 3142.8 | 3146.9 |
| 55°   | 3381.3 | 3385.5 | 3389.6 | 3404.5 | 3411.1 | 3400.3 | 3411.1 | 3431.7 | 3432.5 | 3479.6 | 3505.2 |
| 57.5° | 3788.3 | 3817.2 | 3832.1 | 3841.1 | 3880.0 | 3875.9 | 3900.6 | 3950.2 | 3955.1 | 4064.0 | 4127.7 |
| 60°   | 4498.2 | 4549.4 | 4598.1 | 4571.7 | 4650.2 | 4674.1 | 4689.0 | 4781.5 | 4810.4 | 4913.6 | 4968.8 |
| 62.5° | 5394.8 | 5400.6 | 5476.6 | 5452.6 | 5497.2 | 5486.4 | 5504.6 | 5546.7 | 5584.7 | 5669.7 | 5721.8 |
| 65°   | 6020.5 | 6047.8 | 6077.5 | 6046.9 | 6046.1 | 6009.8 | 5986.7 | 5985.9 | 6009.0 | 6027.2 | 6085.0 |
| 67°   | 6190.6 | 6217.8 | 6225.3 | 6203.0 | 6170.8 | 6124.6 | 6081.7 | 6059.4 | 6044.5 | 6052.7 | 6089.1 |
| 67.5° | 6188.9 | 6214.5 | 6223.6 | 6202.2 | 6157.6 | 6118.8 | 6073.4 | 6047.8 | 6028.0 | 6032.1 | 6062.7 |
| 70°   | 5837.3 | 5892.6 | 5922.3 | 5928.9 | 5923.1 | 5855.4 | 5816.7 | 5793.6 | 5777.0 | 5736.6 | 5734.1 |
| 72.5° | 4945.7 | 5012.5 | 5035.8 | 5072.8 | 5089.3 | 4989.4 | 4947.4 | 4973.0 | 4915.1 | 4787.3 | 4793.0 |
| 75°   | 3631.5 | 3636.5 | 3558.9 | 3543.9 | 3488.7 | 3262.5 | 3194.8 | 3132.8 | 3033.8 | 2879.5 | 2734.1 |
| 77.5° | 1893.0 | 1892.1 | 1802.9 | 1757.5 | 1691.5 | 1555.3 | 1548.7 | 1438.0 | 1360.4 | 1219.3 | 1168.1 |
| 80°   | 1344.8 | 1366.2 | 1396.0 | 1410.8 | 1387.7 | 1334.9 | 1262.2 | 1183.8 | 1093.8 | 1005.5 | 899.8  |
| 82.5° | 1250.7 | 1263.8 | 1279.6 | 1221.8 | 1189.5 | 1115.2 | 1060.0 | 946.0  | 882.5  | 781.8  | 675.2  |
| 85°   | 608.4  | 648.9  | 617.5  | 581.1  | 568.8  | 445.0  | 430.1  | 359.1  | 326.1  | 268.3  | 250.2  |
| 87.5° | 38.8   | 47.9   | 42.9   | 38.8   | 33.9   | 19.0   | 25.6   | 18.1   | 19.0   | 14.0   | 12.3   |
| 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: P151025

CATALOG NUMBER: VXS-F03-LED-E1-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  |
| 2.5°  | 833.0  | 832.1  | 831.3  | 830.5  | 829.6  | 829.6  | 828.8  | 828.0  | 827.2  | 825.5  | 825.5  |
| 5°    | 848.6  | 848.6  | 847.8  | 846.1  | 846.1  | 844.6  | 842.1  | 841.2  | 841.2  | 839.6  | 837.9  |
| 7.5°  | 874.2  | 873.4  | 871.7  | 870.9  | 869.3  | 867.7  | 866.0  | 864.4  | 863.5  | 861.0  | 860.2  |
| 10°   | 913.1  | 911.4  | 907.3  | 905.6  | 904.8  | 903.1  | 901.5  | 899.8  | 897.3  | 895.6  | 894.8  |
| 12.5° | 956.8  | 956.0  | 952.6  | 954.3  | 950.2  | 948.5  | 946.8  | 942.8  | 944.4  | 941.1  | 939.5  |
| 15°   | 1000.5 | 1001.3 | 999.7  | 999.7  | 996.4  | 993.9  | 992.3  | 989.0  | 988.2  | 986.5  | 984.9  |
| 17.5° | 1039.4 | 1041.0 | 1038.5 | 1036.9 | 1035.2 | 1033.6 | 1030.3 | 1026.9 | 1026.9 | 1023.6 | 1022.0 |
| 20°   | 1074.8 | 1076.5 | 1075.6 | 1074.0 | 1071.5 | 1070.7 | 1069.0 | 1066.5 | 1066.5 | 1065.0 | 1062.5 |
| 22.5° | 1115.2 | 1116.1 | 1116.1 | 1115.2 | 1112.8 | 1113.7 | 1112.0 | 1109.5 | 1110.4 | 1107.0 | 1107.0 |
| 25°   | 1164.0 | 1165.6 | 1167.3 | 1168.1 | 1166.4 | 1167.3 | 1165.6 | 1164.0 | 1163.2 | 1164.0 | 1163.2 |
| 27.5° | 1230.9 | 1232.5 | 1237.5 | 1233.4 | 1237.5 | 1238.2 | 1235.9 | 1232.5 | 1235.0 | 1239.1 | 1236.7 |
| 30°   | 1319.2 | 1317.5 | 1324.1 | 1325.0 | 1324.1 | 1325.0 | 1323.3 | 1320.8 | 1322.5 | 1329.9 | 1325.8 |
| 32.5° | 1418.2 | 1421.6 | 1423.2 | 1424.9 | 1427.4 | 1430.7 | 1428.2 | 1425.7 | 1429.8 | 1427.4 | 1433.2 |
| 35°   | 1537.9 | 1545.4 | 1547.9 | 1545.4 | 1547.0 | 1552.8 | 1552.0 | 1552.8 | 1561.0 | 1552.8 | 1563.5 |
| 37.5° | 1689.0 | 1696.5 | 1702.3 | 1699.0 | 1703.1 | 1703.1 | 1709.6 | 1727.8 | 1716.3 | 1731.1 | 1742.7 |
| 40°   | 1908.6 | 1920.2 | 1921.0 | 1920.2 | 1924.2 | 1929.2 | 1935.9 | 1955.6 | 1942.5 | 1958.1 | 1968.9 |
| 42.5° | 2134.8 | 2148.8 | 2153.8 | 2145.5 | 2154.6 | 2165.4 | 2166.2 | 2183.5 | 2184.4 | 2186.8 | 2192.6 |
| 45°   | 2389.8 | 2402.3 | 2412.2 | 2408.1 | 2408.9 | 2422.9 | 2419.6 | 2436.2 | 2423.7 | 2423.7 | 2427.0 |
| 47.5° | 2661.5 | 2673.1 | 2679.7 | 2686.2 | 2678.0 | 2690.4 | 2696.2 | 2692.8 | 2678.0 | 2674.7 | 2654.9 |
| 50°   | 2909.1 | 2919.1 | 2928.9 | 2947.2 | 2946.3 | 2952.1 | 2956.2 | 2941.3 | 2938.0 | 2919.9 | 2897.6 |
| 52.5° | 3171.7 | 3197.3 | 3219.6 | 3257.5 | 3263.3 | 3283.1 | 3275.6 | 3250.9 | 3246.8 | 3217.1 | 3187.4 |
| 55°   | 3537.4 | 3610.9 | 3643.0 | 3701.7 | 3741.2 | 3740.4 | 3723.9 | 3719.8 | 3688.4 | 3629.0 | 3593.5 |
| 57.5° | 4173.9 | 4288.6 | 4343.9 | 4419.9 | 4432.2 | 4424.8 | 4403.3 | 4365.4 | 4310.9 | 4211.0 | 4146.6 |
| 60°   | 5092.6 | 5163.6 | 5228.1 | 5246.2 | 5255.3 | 5241.2 | 5166.1 | 5082.0 | 4975.4 | 4837.6 | 4722.8 |
| 62.5° | 5786.9 | 5859.6 | 5907.5 | 5900.0 | 5843.1 | 5771.3 | 5661.5 | 5520.3 | 5370.9 | 5216.5 | 5044.8 |
| 65°   | 6140.2 | 6170.8 | 6163.4 | 6105.6 | 6008.2 | 5882.7 | 5722.5 | 5548.4 | 5372.5 | 5190.1 | 5011.8 |
| 67°   | 6121.2 | 6122.1 | 6071.7 | 5959.5 | 5834.8 | 5677.1 | 5481.5 | 5291.6 | 5085.3 | 4893.7 | 4681.6 |
| 67.5° | 6087.5 | 6084.1 | 6014.0 | 5891.0 | 5756.4 | 5593.8 | 5390.7 | 5194.2 | 4980.4 | 4787.3 | 4567.7 |
| 70°   | 5704.4 | 5658.1 | 5499.7 | 5303.2 | 5115.8 | 4896.2 | 4683.2 | 4457.8 | 4216.8 | 4050.9 | 3798.2 |
| 72.5° | 4687.4 | 4531.3 | 4258.0 | 4052.5 | 3851.9 | 3564.7 | 3431.7 | 3151.8 | 2982.6 | 2877.0 | 2686.2 |
| 75°   | 2714.3 | 2583.9 | 2372.5 | 2180.2 | 2082.8 | 1912.7 | 1831.8 | 1626.3 | 1583.3 | 1581.7 | 1515.6 |
| 77.5° | 1036.1 | 903.9  | 767.8  | 618.3  | 525.9  | 417.7  | 368.2  | 329.4  | 299.7  | 320.3  | 290.6  |
| 80°   | 776.8  | 639.0  | 499.5  | 363.2  | 259.2  | 191.5  | 164.2  | 151.9  | 144.5  | 138.7  | 134.6  |
| 82.5° | 578.7  | 456.5  | 354.2  | 231.2  | 161.8  | 122.2  | 105.7  | 99.1   | 95.8   | 89.9   | 85.1   |
| 85°   | 195.6  | 156.9  | 123.8  | 85.8   | 67.7   | 55.3   | 51.2   | 49.5   | 47.0   | 42.9   | 40.4   |
| 87.5° | 10.8   | 9.9    | 10.8   | 8.3    | 9.9    | 8.3    | 9.1    | 9.1    | 9.1    | 8.3    | 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: P151025

CATALOG NUMBER: VXS-F03-LED-E1-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°  | 145°  | 155°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3  | 821.3 | 821.3 | 821.3 |
| 2.5°  | 824.7  | 824.7  | 824.7  | 823.0  | 820.6  | 815.6  | 810.7  | 806.5  | 802.4 | 799.9 | 798.2 |
| 5°    | 837.1  | 835.4  | 834.6  | 833.8  | 828.0  | 818.1  | 809.0  | 800.7  | 792.5 | 785.9 | 783.4 |
| 7.5°  | 859.4  | 856.1  | 855.2  | 852.7  | 845.4  | 830.5  | 817.3  | 804.0  | 792.5 | 783.4 | 779.3 |
| 10°   | 893.3  | 893.3  | 888.3  | 885.0  | 876.7  | 856.9  | 837.9  | 820.6  | 804.9 | 795.0 | 792.5 |
| 12.5° | 936.2  | 936.2  | 932.0  | 929.5  | 919.6  | 894.1  | 870.9  | 850.3  | 835.4 | 825.5 | 824.7 |
| 15°   | 980.7  | 979.9  | 976.6  | 973.3  | 962.6  | 935.3  | 912.2  | 894.1  | 881.7 | 870.1 | 866.8 |
| 17.5° | 1020.3 | 1020.3 | 1016.3 | 1013.0 | 1002.2 | 979.1  | 958.4  | 945.2  | 931.2 | 907.3 | 889.1 |
| 20°   | 1060.0 | 1060.8 | 1057.5 | 1054.2 | 1045.1 | 1025.3 | 1016.3 | 1003.0 | 971.6 | 919.6 | 876.7 |
| 22.5° | 1103.7 | 1107.0 | 1102.9 | 1099.6 | 1092.1 | 1083.9 | 1080.6 | 1049.2 | 983.2 | 899.8 | 837.1 |
| 25°   | 1159.9 | 1165.6 | 1160.7 | 1159.1 | 1154.9 | 1157.4 | 1147.5 | 1074.8 | 966.7 | 856.9 | 778.4 |
| 27.5° | 1236.7 | 1236.7 | 1237.5 | 1237.5 | 1235.9 | 1244.9 | 1208.6 | 1075.6 | 930.4 | 801.6 | 708.3 |
| 30°   | 1326.6 | 1331.6 | 1329.9 | 1329.9 | 1336.5 | 1342.3 | 1242.4 | 1057.5 | 884.1 | 733.1 | 622.5 |
| 32.5° | 1434.7 | 1438.9 | 1440.5 | 1433.2 | 1459.5 | 1429.8 | 1254.8 | 1024.5 | 827.2 | 648.1 | 520.1 |
| 35°   | 1565.2 | 1571.0 | 1575.1 | 1576.0 | 1593.3 | 1505.8 | 1248.2 | 975.8  | 745.5 | 541.6 | 407.8 |
| 37.5° | 1735.2 | 1746.8 | 1755.9 | 1760.0 | 1760.8 | 1570.2 | 1230.1 | 911.4  | 639.0 | 422.7 | 303.8 |
| 40°   | 1961.5 | 1973.8 | 1971.4 | 1979.6 | 1932.5 | 1608.1 | 1188.7 | 818.1  | 506.8 | 310.4 | 234.4 |
| 42.5° | 2179.4 | 2181.0 | 2184.4 | 2176.9 | 2081.1 | 1628.0 | 1131.0 | 704.1  | 379.8 | 232.0 | 200.6 |
| 45°   | 2422.9 | 2408.9 | 2393.2 | 2381.7 | 2218.1 | 1635.3 | 1051.7 | 565.5  | 268.3 | 194.8 | 185.7 |
| 47.5° | 2651.6 | 2632.6 | 2600.4 | 2567.4 | 2340.4 | 1623.8 | 950.2  | 423.5  | 203.9 | 178.3 | 175.9 |
| 50°   | 2876.2 | 2840.6 | 2795.2 | 2757.2 | 2457.6 | 1606.4 | 837.9  | 305.5  | 178.3 | 170.1 | 167.6 |
| 52.5° | 3154.3 | 3094.9 | 3035.4 | 2985.9 | 2610.3 | 1579.3 | 719.9  | 232.0  | 167.6 | 163.4 | 160.1 |
| 55°   | 3535.8 | 3453.2 | 3357.4 | 3288.1 | 2817.5 | 1537.9 | 596.1  | 196.5  | 162.6 | 159.3 | 154.4 |
| 57.5° | 4064.0 | 3940.2 | 3832.1 | 3719.0 | 3100.6 | 1495.9 | 489.5  | 182.5  | 161.8 | 156.9 | 150.3 |
| 60°   | 4603.9 | 4455.3 | 4317.5 | 4155.6 | 3389.6 | 1453.8 | 415.2  | 180.8  | 164.2 | 156.9 | 146.9 |
| 62.5° | 4884.7 | 4731.1 | 4565.2 | 4400.8 | 3514.3 | 1354.7 | 364.0  | 183.3  | 170.1 | 159.3 | 146.9 |
| 65°   | 4820.2 | 4632.8 | 4464.5 | 4296.9 | 3369.7 | 1167.3 | 307.9  | 186.5  | 181.7 | 169.2 | 149.4 |
| 67°   | 4496.7 | 4301.0 | 4139.2 | 3979.1 | 3047.9 | 977.4  | 264.1  | 189.8  | 194.0 | 180.8 | 154.4 |
| 67.5° | 4382.7 | 4187.0 | 4027.8 | 3871.7 | 2953.0 | 937.8  | 253.5  | 191.5  | 196.5 | 184.0 | 156.1 |
| 70°   | 3634.0 | 3490.4 | 3321.0 | 3200.5 | 2390.7 | 694.3  | 208.1  | 194.8  | 211.3 | 203.1 | 163.4 |
| 72.5° | 2615.2 | 2478.2 | 2351.1 | 2284.2 | 1760.8 | 485.4  | 175.0  | 191.5  | 220.4 | 213.8 | 166.7 |
| 75°   | 1390.2 | 1382.0 | 1335.6 | 1368.7 | 1089.7 | 317.0  | 154.4  | 179.2  | 210.5 | 195.6 | 155.2 |
| 77.5° | 280.7  | 288.9  | 339.3  | 334.3  | 351.7  | 176.7  | 132.1  | 153.6  | 162.6 | 143.6 | 126.3 |
| 80°   | 130.5  | 128.0  | 125.5  | 127.2  | 124.7  | 113.1  | 107.4  | 120.5  | 113.1 | 92.4  | 84.2  |
| 82.5° | 80.9   | 79.3   | 76.8   | 76.0   | 84.2   | 89.9   | 94.1   | 94.9   | 75.1  | 64.4  | 61.9  |
| 85°   | 38.8   | 38.8   | 37.9   | 39.6   | 49.5   | 73.5   | 79.3   | 70.2   | 50.4  | 46.2  | 43.7  |
| 87.5° | 7.5    | 7.5    | 8.3    | 7.5    | 9.9    | 17.3   | 19.8   | 23.1   | 19.0  | 19.8  | 22.3  |
| 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: P151025

CATALOG NUMBER: VXS-F03-LED-E1-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 821.3 | 821.3 | 821.3 |
| 2.5°  | 796.6 | 795.0 | 795.0 |
| 5°    | 780.1 | 779.3 | 779.3 |
| 7.5°  | 776.0 | 776.8 | 776.0 |
| 10°   | 791.7 | 790.9 | 794.2 |
| 12.5° | 826.3 | 828.8 | 828.0 |
| 15°   | 862.7 | 864.4 | 864.4 |
| 17.5° | 873.4 | 867.7 | 866.8 |
| 20°   | 845.4 | 834.6 | 832.1 |
| 22.5° | 792.5 | 772.6 | 773.5 |
| 25°   | 725.6 | 701.7 | 703.3 |
| 27.5° | 648.1 | 622.5 | 621.7 |
| 30°   | 554.7 | 526.7 | 512.6 |
| 32.5° | 442.5 | 408.6 | 408.6 |
| 35°   | 332.6 | 305.5 | 295.5 |
| 37.5° | 252.6 | 236.9 | 232.0 |
| 40°   | 210.5 | 203.1 | 201.5 |
| 42.5° | 191.5 | 189.0 | 188.2 |
| 45°   | 181.7 | 180.0 | 179.2 |
| 47.5° | 172.5 | 171.7 | 170.9 |
| 50°   | 165.9 | 165.1 | 164.2 |
| 52.5° | 160.1 | 158.5 | 157.7 |
| 55°   | 151.9 | 151.9 | 151.9 |
| 57.5° | 146.9 | 146.9 | 146.1 |
| 60°   | 142.0 | 141.1 | 141.1 |
| 62.5° | 137.8 | 136.2 | 137.0 |
| 65°   | 135.3 | 133.0 | 133.0 |
| 67°   | 133.8 | 128.8 | 128.8 |
| 67.5° | 133.8 | 127.2 | 127.2 |
| 70°   | 131.3 | 120.5 | 118.9 |
| 72.5° | 128.8 | 113.1 | 110.6 |
| 75°   | 122.2 | 107.4 | 104.9 |
| 77.5° | 104.9 | 95.8  | 94.1  |
| 80°   | 80.9  | 70.2  | 71.8  |
| 82.5° | 58.7  | 50.4  | 49.5  |
| 85°   | 42.1  | 36.4  | 36.4  |
| 87.5° | 22.3  | 19.0  | 19.8  |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)