

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: P156424

Luminaire Tested: **VXM-F04-LED-E1-T4-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156424  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXM-F04-LED-E1-T4-7030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9114.4 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2  
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

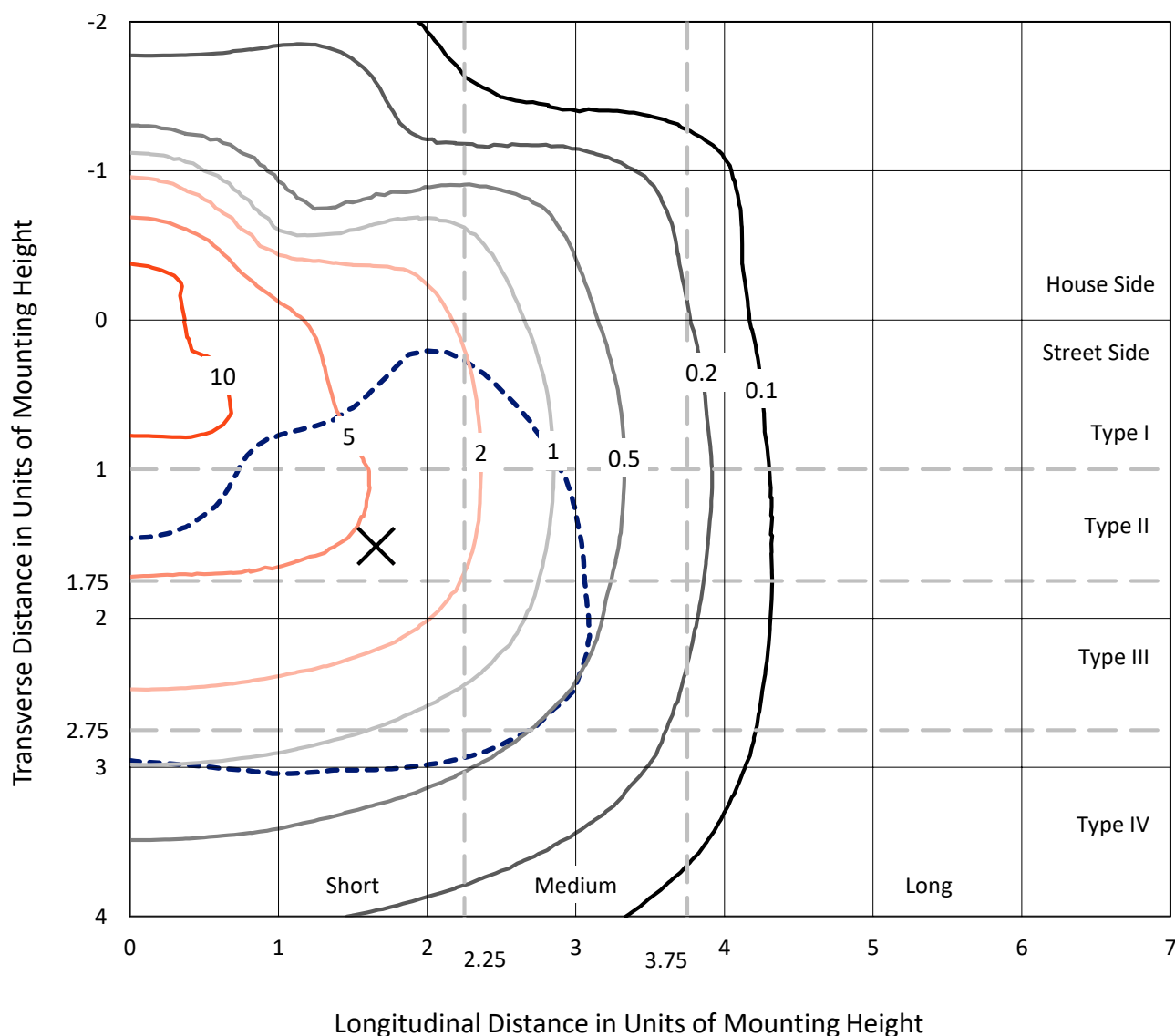


REPORT NUMBER: P156424

CATALOG NUMBER: VXM-F04-LED-E1-T4-7030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

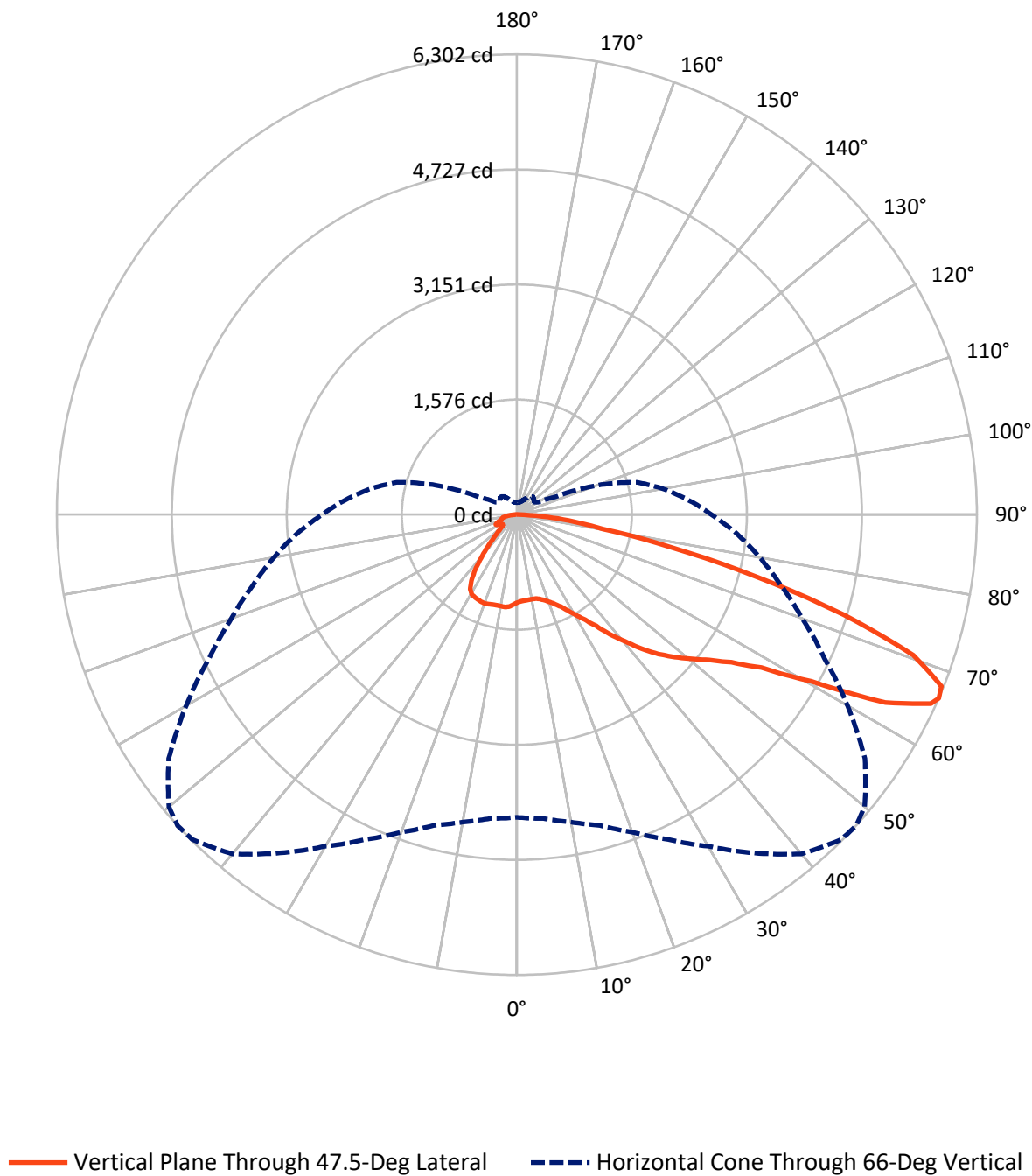


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P156424

CATALOG NUMBER: VXM-F04-LED-E1-T4-7030

## Luminous Intensity Polar Plot



REPORT NUMBER: P156424

CATALOG NUMBER: VXM-F04-LED-E1-T4-7030

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1944.8   | 0.0    | 1944.8 |
|                    | % Fixture | 21.3     | 0.0    | 21.3   |
| <b>Street Side</b> | Lumens    | 7169.6   | 0.0    | 7169.6 |
|                    | % Fixture | 78.7     | 0.0    | 78.7   |
| <b>Total</b>       | Lumens    | 9114.4   | 0.0    | 9114.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.7  | 1.3       |
| 10°-20°   | 354.2  | 3.9       |
| 20°-30°   | 610.1  | 6.7       |
| 30°-40°   | 923.0  | 10.1      |
| 40°-50°   | 1196.4 | 13.1      |
| 50°-60°   | 1649.4 | 18.1      |
| 60°-70°   | 2562.6 | 28.1      |
| 70°-80°   | 1490.2 | 16.3      |
| 80°-90°   | 211.9  | 2.3       |
| 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°    | 9114.4 | 100.0     |
| 0°-180°   | 9114.4 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P156424

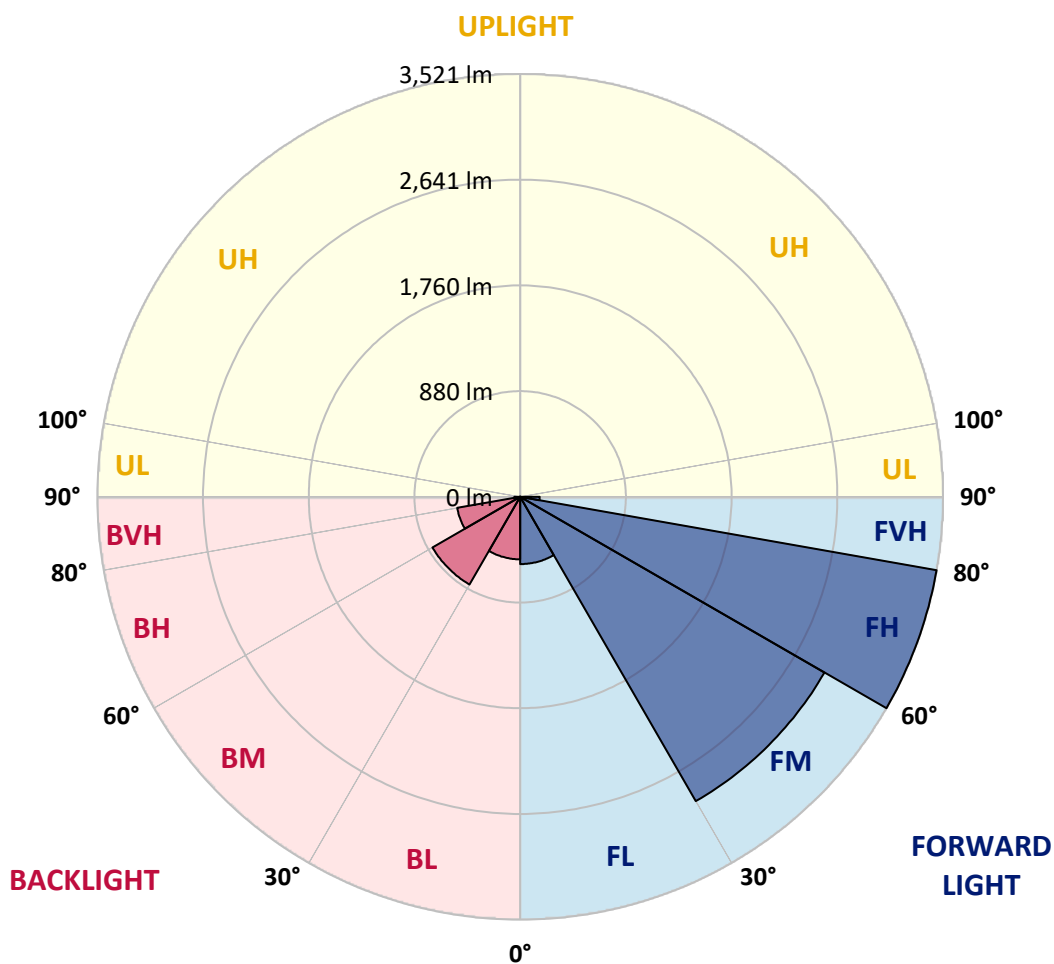
CATALOG NUMBER: VXM-F04-LED-E1-T4-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 560.4  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 2925.7 | 32.1      |                         |      |         |
| FH   | (60°-80°)   | 3520.9 | 38.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 162.6  | 1.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 520.6  | 5.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 843.1  | 9.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 531.9  | 5.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 49.3   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short



REPORT NUMBER: P156424

CATALOG NUMBER: VXM-F04-LED-E1-T4-7030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 47.5°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 |
| 2.5°  | 1179.2 | 1183.3 | 1180.3 | 1181.3 | 1181.3 | 1182.3 | 1182.3 | 1183.3 | 1182.3 | 1185.3 | 1187.3 |
| 5°    | 1158.1 | 1160.1 | 1159.1 | 1161.1 | 1163.2 | 1167.2 | 1166.2 | 1171.2 | 1172.2 | 1175.2 | 1180.3 |
| 7.5°  | 1150.1 | 1148.1 | 1149.1 | 1152.1 | 1154.1 | 1156.1 | 1158.1 | 1162.2 | 1165.2 | 1172.2 | 1176.2 |
| 10°   | 1158.1 | 1157.1 | 1158.1 | 1160.1 | 1160.1 | 1161.1 | 1159.1 | 1163.2 | 1165.2 | 1171.2 | 1175.2 |
| 12.5° | 1191.3 | 1191.3 | 1189.3 | 1189.3 | 1187.3 | 1185.3 | 1180.3 | 1177.2 | 1176.2 | 1177.2 | 1179.2 |
| 15°   | 1244.6 | 1242.6 | 1238.6 | 1235.5 | 1231.5 | 1224.5 | 1217.4 | 1211.4 | 1207.4 | 1201.4 | 1199.4 |
| 17.5° | 1296.9 | 1293.9 | 1289.8 | 1285.8 | 1280.8 | 1273.7 | 1262.7 | 1255.7 | 1244.6 | 1237.6 | 1233.5 |
| 20°   | 1357.2 | 1351.2 | 1346.1 | 1341.1 | 1331.0 | 1329.0 | 1318.0 | 1305.9 | 1292.8 | 1276.8 | 1274.8 |
| 22.5° | 1435.6 | 1425.6 | 1419.5 | 1416.5 | 1406.4 | 1403.4 | 1385.3 | 1368.2 | 1352.2 | 1331.0 | 1326.0 |
| 25°   | 1515.0 | 1505.0 | 1502.0 | 1497.9 | 1490.9 | 1486.9 | 1469.8 | 1450.7 | 1429.6 | 1400.4 | 1394.4 |
| 27.5° | 1592.4 | 1593.4 | 1585.4 | 1588.4 | 1586.4 | 1579.4 | 1562.3 | 1543.2 | 1527.1 | 1492.9 | 1485.9 |
| 30°   | 1688.9 | 1682.9 | 1678.9 | 1684.9 | 1677.9 | 1678.9 | 1663.8 | 1653.8 | 1627.6 | 1607.5 | 1593.4 |
| 32.5° | 1789.5 | 1788.5 | 1794.5 | 1798.5 | 1797.5 | 1795.5 | 1783.4 | 1773.4 | 1750.3 | 1721.1 | 1715.1 |
| 35°   | 1927.2 | 1933.2 | 1938.3 | 1956.4 | 1956.4 | 1969.4 | 1957.4 | 1945.3 | 1918.2 | 1883.0 | 1870.9 |
| 37.5° | 2020.7 | 2022.7 | 2042.8 | 2066.9 | 2097.1 | 2125.3 | 2133.3 | 2136.3 | 2125.3 | 2099.1 | 2081.0 |
| 40°   | 2106.2 | 2110.2 | 2142.3 | 2179.5 | 2223.8 | 2279.1 | 2312.2 | 2327.3 | 2330.3 | 2318.3 | 2279.1 |
| 42.5° | 2191.6 | 2197.6 | 2230.8 | 2285.1 | 2346.4 | 2416.8 | 2475.1 | 2512.3 | 2533.4 | 2533.4 | 2510.3 |
| 45°   | 2291.1 | 2299.2 | 2335.4 | 2394.7 | 2466.1 | 2554.5 | 2635.0 | 2706.3 | 2740.5 | 2742.5 | 2720.4 |
| 47.5° | 2408.8 | 2415.8 | 2458.0 | 2518.3 | 2591.7 | 2681.2 | 2782.7 | 2864.2 | 2927.5 | 2931.5 | 2913.4 |
| 50°   | 2560.6 | 2570.6 | 2605.8 | 2660.1 | 2735.5 | 2826.0 | 2927.5 | 3041.1 | 3107.5 | 3123.5 | 3104.4 |
| 52.5° | 2761.6 | 2763.6 | 2792.8 | 2843.1 | 2916.4 | 3002.9 | 3110.5 | 3234.1 | 3321.6 | 3334.7 | 3303.5 |
| 55°   | 3039.1 | 3036.1 | 3055.2 | 3109.5 | 3164.8 | 3232.1 | 3343.7 | 3482.4 | 3580.0 | 3600.1 | 3567.9 |
| 57.5° | 3416.1 | 3413.1 | 3429.2 | 3442.2 | 3545.8 | 3611.1 | 3720.7 | 3853.4 | 3947.9 | 4006.2 | 3950.9 |
| 60°   | 4000.2 | 3997.2 | 4023.3 | 4099.7 | 4177.1 | 4272.6 | 4379.2 | 4538.0 | 4670.7 | 4687.8 | 4633.5 |
| 62.5° | 4423.4 | 4438.5 | 4495.8 | 4585.3 | 4742.1 | 4929.1 | 5124.1 | 5333.2 | 5605.7 | 5692.1 | 5666.0 |
| 65°   | 4275.6 | 4305.8 | 4385.2 | 4520.9 | 4730.1 | 4988.4 | 5294.0 | 5673.0 | 6038.0 | 6242.1 | 6236.0 |
| 66°   | 4142.9 | 4176.1 | 4273.6 | 4404.3 | 4625.5 | 4908.0 | 5241.8 | 5655.0 | 6063.1 | 6288.3 | 6302.4 |
| 67.5° | 3901.7 | 3938.9 | 4034.4 | 4189.2 | 4404.3 | 4704.9 | 5063.8 | 5513.2 | 5974.6 | 6237.0 | 6274.2 |
| 70°   | 3432.2 | 3474.4 | 3543.8 | 3671.4 | 3883.6 | 4152.0 | 4530.0 | 4932.1 | 5415.7 | 5716.3 | 5761.5 |
| 72.5° | 2869.2 | 2906.4 | 2983.8 | 3088.4 | 3262.3 | 3431.2 | 3727.7 | 4024.3 | 4370.1 | 4713.0 | 4679.8 |
| 75°   | 2059.9 | 2076.0 | 2122.2 | 2235.8 | 2329.3 | 2481.1 | 2719.4 | 2962.7 | 3198.9 | 3355.8 | 3377.9 |
| 77.5° | 1070.7 | 1112.9 | 1178.2 | 1303.9 | 1405.4 | 1542.2 | 1697.0 | 1880.0 | 2052.9 | 2196.6 | 2157.4 |
| 80°   | 700.7  | 718.8  | 777.1  | 841.5  | 915.9  | 1003.3 | 1106.9 | 1175.2 | 1197.3 | 1188.3 | 1197.3 |
| 82.5° | 404.1  | 437.3  | 514.7  | 564.0  | 619.3  | 649.4  | 731.9  | 810.3  | 854.5  | 799.2  | 779.1  |
| 85°   | 51.3   | 66.4   | 209.1  | 263.4  | 301.6  | 346.8  | 372.0  | 419.2  | 391.1  | 349.9  | 426.3  |
| 87.5° | 11.1   | 10.1   | 14.1   | 30.2   | 31.2   | 26.1   | 49.3   | 52.3   | 32.2   | 16.1   | 20.1   |
| 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: P156424

CATALOG NUMBER: VXM-F04-LED-E1-T4-7030

**CANDELA DISTRIBUTION (continued):**

|       | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 |
| 2.5°  | 1189.3 | 1190.3 | 1192.3 | 1195.3 | 1197.3 | 1199.4 | 1201.4 | 1204.4 | 1206.4 | 1208.4 | 1212.4 |
| 5°    | 1184.3 | 1188.3 | 1192.3 | 1196.3 | 1201.4 | 1209.4 | 1214.4 | 1218.5 | 1222.5 | 1230.5 | 1233.5 |
| 7.5°  | 1181.3 | 1188.3 | 1194.3 | 1201.4 | 1209.4 | 1216.4 | 1225.5 | 1230.5 | 1236.5 | 1241.6 | 1247.6 |
| 10°   | 1179.2 | 1189.3 | 1195.3 | 1205.4 | 1214.4 | 1221.5 | 1231.5 | 1237.6 | 1244.6 | 1250.6 | 1253.6 |
| 12.5° | 1183.3 | 1188.3 | 1194.3 | 1204.4 | 1215.4 | 1225.5 | 1236.5 | 1241.6 | 1247.6 | 1252.6 | 1253.6 |
| 15°   | 1200.4 | 1200.4 | 1201.4 | 1209.4 | 1220.5 | 1228.5 | 1237.6 | 1242.6 | 1245.6 | 1248.6 | 1248.6 |
| 17.5° | 1231.5 | 1224.5 | 1219.5 | 1220.5 | 1227.5 | 1232.5 | 1237.6 | 1237.6 | 1235.5 | 1234.5 | 1232.5 |
| 20°   | 1267.7 | 1258.7 | 1248.6 | 1241.6 | 1239.6 | 1235.5 | 1232.5 | 1222.5 | 1214.4 | 1207.4 | 1202.4 |
| 22.5° | 1320.0 | 1305.9 | 1291.8 | 1278.8 | 1266.7 | 1251.6 | 1234.5 | 1214.4 | 1195.3 | 1182.3 | 1174.2 |
| 25°   | 1384.3 | 1373.3 | 1356.2 | 1336.1 | 1321.0 | 1292.8 | 1270.7 | 1241.6 | 1217.4 | 1200.4 | 1186.3 |
| 27.5° | 1475.8 | 1462.7 | 1446.7 | 1428.6 | 1406.4 | 1375.3 | 1348.1 | 1314.0 | 1284.8 | 1259.7 | 1241.6 |
| 30°   | 1589.4 | 1572.3 | 1560.3 | 1538.1 | 1523.1 | 1487.9 | 1460.7 | 1418.5 | 1362.2 | 1322.0 | 1296.9 |
| 32.5° | 1706.0 | 1686.9 | 1676.9 | 1659.8 | 1642.7 | 1621.6 | 1580.4 | 1515.0 | 1442.6 | 1377.3 | 1334.1 |
| 35°   | 1861.9 | 1841.8 | 1823.7 | 1808.6 | 1783.4 | 1744.2 | 1708.0 | 1629.6 | 1530.1 | 1438.6 | 1366.2 |
| 37.5° | 2057.9 | 2024.7 | 1979.5 | 1941.3 | 1897.0 | 1840.7 | 1785.5 | 1705.0 | 1591.4 | 1472.8 | 1376.3 |
| 40°   | 2267.0 | 2208.7 | 2144.4 | 2073.0 | 1996.6 | 1915.1 | 1851.8 | 1770.4 | 1642.7 | 1502.0 | 1369.3 |
| 42.5° | 2485.2 | 2392.7 | 2303.2 | 2202.7 | 2096.1 | 1999.6 | 1917.2 | 1827.7 | 1680.9 | 1510.0 | 1341.1 |
| 45°   | 2701.3 | 2597.8 | 2462.0 | 2330.3 | 2195.6 | 2076.0 | 1983.5 | 1883.0 | 1716.1 | 1513.0 | 1303.9 |
| 47.5° | 2880.3 | 2773.7 | 2618.9 | 2454.0 | 2294.2 | 2158.4 | 2049.9 | 1941.3 | 1763.3 | 1534.1 | 1294.9 |
| 50°   | 3069.3 | 2939.6 | 2767.7 | 2572.6 | 2391.7 | 2239.9 | 2124.3 | 2011.7 | 1829.7 | 1588.4 | 1324.0 |
| 52.5° | 3275.3 | 3126.6 | 2925.5 | 2707.3 | 2509.3 | 2339.4 | 2213.7 | 2098.1 | 1914.1 | 1664.8 | 1379.3 |
| 55°   | 3526.7 | 3344.7 | 3126.6 | 2880.3 | 2668.1 | 2480.1 | 2341.4 | 2204.7 | 2014.7 | 1755.3 | 1448.7 |
| 57.5° | 3910.7 | 3687.5 | 3442.2 | 3161.7 | 2926.5 | 2704.3 | 2538.4 | 2380.6 | 2170.5 | 1890.0 | 1543.2 |
| 60°   | 4605.4 | 4367.1 | 4048.4 | 3708.6 | 3432.2 | 3172.8 | 2929.5 | 2733.5 | 2475.1 | 2155.4 | 1752.3 |
| 62.5° | 5600.7 | 5284.0 | 4858.7 | 4383.2 | 4021.3 | 3647.3 | 3372.9 | 3081.3 | 2760.6 | 2415.8 | 1998.6 |
| 65°   | 6153.6 | 5769.6 | 5200.5 | 4648.6 | 4183.2 | 3777.0 | 3428.2 | 3090.4 | 2734.5 | 2404.7 | 2055.9 |
| 66°   | 6222.0 | 5821.8 | 5230.7 | 4649.6 | 4161.0 | 3743.8 | 3376.9 | 3027.0 | 2663.1 | 2348.4 | 2031.8 |
| 67.5° | 6193.8 | 5784.6 | 5175.4 | 4562.2 | 4065.5 | 3617.2 | 3238.2 | 2875.2 | 2512.3 | 2218.8 | 1951.3 |
| 70°   | 5732.4 | 5344.3 | 4746.1 | 4152.0 | 3680.5 | 3238.2 | 2876.2 | 2519.3 | 2186.6 | 1935.2 | 1738.2 |
| 72.5° | 4760.2 | 4428.5 | 3908.7 | 3442.2 | 3072.3 | 2707.3 | 2400.7 | 2059.9 | 1778.4 | 1592.4 | 1475.8 |
| 75°   | 3436.2 | 3235.1 | 2761.6 | 2494.2 | 2169.5 | 1927.2 | 1629.6 | 1427.6 | 1225.5 | 1135.0 | 1114.9 |
| 77.5° | 2170.5 | 1900.1 | 1599.5 | 1317.0 | 1082.7 | 897.8  | 698.7  | 593.1  | 494.6  | 484.6  | 585.1  |
| 80°   | 1098.8 | 989.2  | 762.0  | 607.2  | 510.7  | 413.2  | 326.7  | 247.3  | 172.9  | 208.1  | 249.3  |
| 82.5° | 719.8  | 600.2  | 470.5  | 387.0  | 336.8  | 279.5  | 217.2  | 150.8  | 110.6  | 124.7  | 170.9  |
| 85°   | 389.1  | 331.8  | 267.4  | 211.1  | 170.9  | 152.8  | 102.5  | 72.4   | 71.4   | 76.4   | 97.5   |
| 87.5° | 28.1   | 28.1   | 22.1   | 20.1   | 24.1   | 20.1   | 18.1   | 18.1   | 17.1   | 18.1   | 24.1   |
| 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: P156424

CATALOG NUMBER: VXM-F04-LED-E1-T4-7030

**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 |
| 2.5°  | 1214.4 | 1217.4 | 1218.5 | 1223.5 | 1226.5 | 1228.5 | 1230.5 | 1230.5 | 1231.5 | 1234.5 | 1235.5 |
| 5°    | 1237.6 | 1242.6 | 1248.6 | 1252.6 | 1254.6 | 1260.7 | 1262.7 | 1262.7 | 1264.7 | 1268.7 | 1271.7 |
| 7.5°  | 1251.6 | 1258.7 | 1264.7 | 1266.7 | 1270.7 | 1272.7 | 1275.8 | 1277.8 | 1277.8 | 1281.8 | 1283.8 |
| 10°   | 1256.7 | 1260.7 | 1266.7 | 1266.7 | 1270.7 | 1270.7 | 1273.7 | 1274.8 | 1274.8 | 1278.8 | 1281.8 |
| 12.5° | 1256.7 | 1258.7 | 1263.7 | 1263.7 | 1266.7 | 1267.7 | 1271.7 | 1274.8 | 1275.8 | 1280.8 | 1284.8 |
| 15°   | 1250.6 | 1252.6 | 1256.7 | 1257.7 | 1264.7 | 1268.7 | 1277.8 | 1283.8 | 1283.8 | 1288.8 | 1290.8 |
| 17.5° | 1233.5 | 1238.6 | 1246.6 | 1254.6 | 1267.7 | 1276.8 | 1287.8 | 1292.8 | 1288.8 | 1285.8 | 1282.8 |
| 20°   | 1205.4 | 1214.4 | 1233.5 | 1253.6 | 1276.8 | 1288.8 | 1294.9 | 1289.8 | 1275.8 | 1261.7 | 1252.6 |
| 22.5° | 1177.2 | 1195.3 | 1227.5 | 1257.7 | 1283.8 | 1291.8 | 1288.8 | 1270.7 | 1247.6 | 1230.5 | 1218.5 |
| 25°   | 1190.3 | 1211.4 | 1242.6 | 1269.7 | 1286.8 | 1284.8 | 1272.7 | 1247.6 | 1222.5 | 1200.4 | 1180.3 |
| 27.5° | 1244.6 | 1267.7 | 1284.8 | 1293.9 | 1291.8 | 1277.8 | 1258.7 | 1230.5 | 1200.4 | 1171.2 | 1143.1 |
| 30°   | 1295.9 | 1307.9 | 1311.9 | 1304.9 | 1288.8 | 1265.7 | 1241.6 | 1209.4 | 1169.2 | 1133.0 | 1100.8 |
| 32.5° | 1319.0 | 1306.9 | 1287.8 | 1268.7 | 1242.6 | 1222.5 | 1189.3 | 1154.1 | 1103.8 | 1060.6 | 1028.4 |
| 35°   | 1319.0 | 1270.7 | 1222.5 | 1182.3 | 1143.1 | 1117.9 | 1079.7 | 1032.5 | 986.2  | 950.0  | 924.9  |
| 37.5° | 1289.8 | 1197.3 | 1117.9 | 1052.6 | 1003.3 | 976.2  | 918.9  | 876.6  | 837.4  | 825.4  | 809.3  |
| 40°   | 1236.5 | 1099.8 | 985.2  | 899.8  | 837.4  | 797.2  | 739.9  | 710.8  | 695.7  | 689.7  | 686.6  |
| 42.5° | 1165.2 | 991.3  | 838.4  | 732.9  | 665.5  | 620.3  | 582.1  | 564.0  | 563.0  | 562.0  | 562.0  |
| 45°   | 1088.8 | 874.6  | 695.7  | 570.0  | 510.7  | 470.5  | 452.4  | 445.4  | 451.4  | 450.4  | 451.4  |
| 47.5° | 1041.5 | 786.2  | 565.0  | 431.3  | 386.0  | 359.9  | 350.9  | 353.9  | 358.9  | 356.9  | 356.9  |
| 50°   | 1035.5 | 740.9  | 477.5  | 335.8  | 301.6  | 288.5  | 286.5  | 286.5  | 289.5  | 287.5  | 286.5  |
| 52.5° | 1057.6 | 733.9  | 432.3  | 288.5  | 261.4  | 250.3  | 248.3  | 247.3  | 246.3  | 240.3  | 235.2  |
| 55°   | 1095.8 | 750.0  | 419.2  | 276.5  | 248.3  | 236.3  | 233.2  | 231.2  | 227.2  | 219.2  | 210.1  |
| 57.5° | 1172.2 | 800.2  | 431.3  | 282.5  | 252.3  | 242.3  | 239.3  | 239.3  | 231.2  | 218.2  | 205.1  |
| 60°   | 1356.2 | 927.9  | 480.5  | 305.6  | 271.4  | 261.4  | 263.4  | 262.4  | 250.3  | 231.2  | 211.1  |
| 62.5° | 1593.4 | 1094.8 | 544.9  | 337.8  | 295.6  | 293.6  | 303.6  | 301.6  | 281.5  | 252.3  | 223.2  |
| 65°   | 1703.0 | 1173.2 | 563.0  | 344.8  | 300.6  | 309.6  | 329.7  | 327.7  | 302.6  | 262.4  | 225.2  |
| 66°   | 1705.0 | 1173.2 | 554.9  | 338.8  | 293.6  | 304.6  | 324.7  | 323.7  | 298.6  | 258.4  | 221.2  |
| 67.5° | 1663.8 | 1141.0 | 531.8  | 326.7  | 279.5  | 287.5  | 305.6  | 304.6  | 281.5  | 248.3  | 213.1  |
| 70°   | 1509.0 | 1021.4 | 472.5  | 305.6  | 260.4  | 256.4  | 262.4  | 258.4  | 243.3  | 220.2  | 196.0  |
| 72.5° | 1292.8 | 857.5  | 412.2  | 289.5  | 247.3  | 231.2  | 227.2  | 224.2  | 212.1  | 199.1  | 184.0  |
| 75°   | 1018.4 | 678.6  | 361.9  | 277.5  | 235.2  | 214.1  | 207.1  | 203.1  | 195.0  | 186.0  | 173.9  |
| 77.5° | 628.3  | 485.6  | 315.7  | 261.4  | 226.2  | 205.1  | 200.1  | 194.0  | 182.0  | 170.9  | 161.9  |
| 80°   | 280.5  | 300.6  | 259.4  | 228.2  | 202.1  | 183.0  | 174.9  | 165.9  | 153.8  | 146.8  | 141.8  |
| 82.5° | 187.0  | 194.0  | 188.0  | 170.9  | 152.8  | 137.7  | 125.7  | 125.7  | 123.7  | 117.6  | 115.6  |
| 85°   | 119.6  | 120.6  | 116.6  | 105.6  | 98.5   | 89.5   | 84.4   | 85.5   | 89.5   | 88.5   | 87.5   |
| 87.5° | 27.1   | 27.1   | 32.2   | 30.2   | 35.2   | 37.2   | 40.2   | 43.2   | 49.3   | 49.3   | 52.3   |
| 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: P156424

CATALOG NUMBER: VXM-F04-LED-E1-T4-7030

**CANDELA DISTRIBUTION (continued):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1201.4 | 1201.4 | 1201.4 | 1201.4 | 1201.4 |
| 2.5°  | 1236.5 | 1238.6 | 1240.6 | 1237.6 | 1238.6 |
| 5°    | 1271.7 | 1270.7 | 1275.8 | 1272.7 | 1274.8 |
| 7.5°  | 1282.8 | 1283.8 | 1287.8 | 1287.8 | 1288.8 |
| 10°   | 1283.8 | 1285.8 | 1290.8 | 1293.9 | 1295.9 |
| 12.5° | 1288.8 | 1292.8 | 1300.9 | 1302.9 | 1302.9 |
| 15°   | 1292.8 | 1294.9 | 1299.9 | 1301.9 | 1303.9 |
| 17.5° | 1278.8 | 1274.8 | 1276.8 | 1277.8 | 1276.8 |
| 20°   | 1243.6 | 1239.6 | 1238.6 | 1234.5 | 1236.5 |
| 22.5° | 1205.4 | 1194.3 | 1187.3 | 1179.2 | 1179.2 |
| 25°   | 1159.1 | 1142.0 | 1128.0 | 1113.9 | 1116.9 |
| 27.5° | 1115.9 | 1093.8 | 1079.7 | 1070.7 | 1068.7 |
| 30°   | 1073.7 | 1050.6 | 1037.5 | 1026.4 | 1026.4 |
| 32.5° | 1003.3 | 987.2  | 970.1  | 963.1  | 962.1  |
| 35°   | 905.8  | 895.7  | 881.7  | 878.7  | 873.6  |
| 37.5° | 796.2  | 793.2  | 781.1  | 780.1  | 775.1  |
| 40°   | 681.6  | 683.6  | 679.6  | 677.6  | 674.6  |
| 42.5° | 567.0  | 577.1  | 575.0  | 574.0  | 572.0  |
| 45°   | 457.4  | 464.5  | 465.5  | 468.5  | 473.5  |
| 47.5° | 359.9  | 361.9  | 363.9  | 362.9  | 363.9  |
| 50°   | 281.5  | 276.5  | 275.5  | 272.4  | 275.5  |
| 52.5° | 227.2  | 219.2  | 215.1  | 211.1  | 209.1  |
| 55°   | 200.1  | 192.0  | 188.0  | 186.0  | 184.0  |
| 57.5° | 193.0  | 185.0  | 178.9  | 174.9  | 173.9  |
| 60°   | 195.0  | 183.0  | 174.9  | 169.9  | 168.9  |
| 62.5° | 200.1  | 184.0  | 172.9  | 167.9  | 166.9  |
| 65°   | 199.1  | 182.0  | 171.9  | 165.9  | 164.9  |
| 66°   | 196.0  | 180.0  | 169.9  | 164.9  | 163.9  |
| 67.5° | 191.0  | 176.9  | 167.9  | 163.9  | 161.9  |
| 70°   | 182.0  | 172.9  | 165.9  | 160.9  | 158.8  |
| 72.5° | 173.9  | 166.9  | 160.9  | 155.8  | 154.8  |
| 75°   | 164.9  | 158.8  | 152.8  | 148.8  | 147.8  |
| 77.5° | 153.8  | 147.8  | 143.8  | 140.7  | 139.7  |
| 80°   | 135.7  | 131.7  | 127.7  | 123.7  | 123.7  |
| 82.5° | 112.6  | 109.6  | 105.6  | 102.5  | 101.5  |
| 85°   | 86.5   | 86.5   | 83.4   | 80.4   | 79.4   |
| 87.5° | 51.3   | 50.3   | 50.3   | 47.3   | 47.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)