

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: P159201

Luminaire Tested: **VTS-E03-LED-E1-T2-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159201  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-E03-LED-E1-T2-7050  
Description: VENTUS LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (63) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9501.9 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

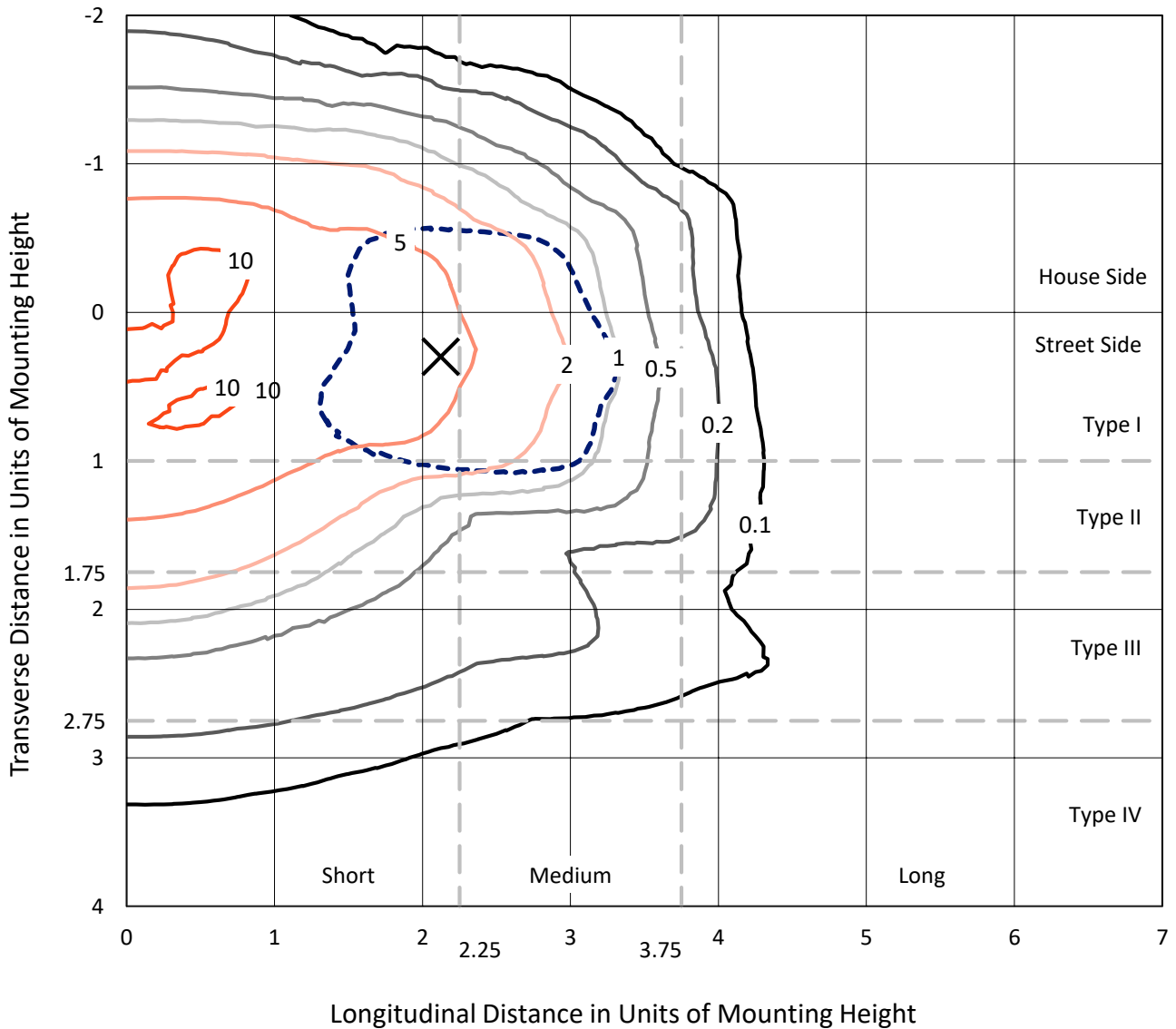
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

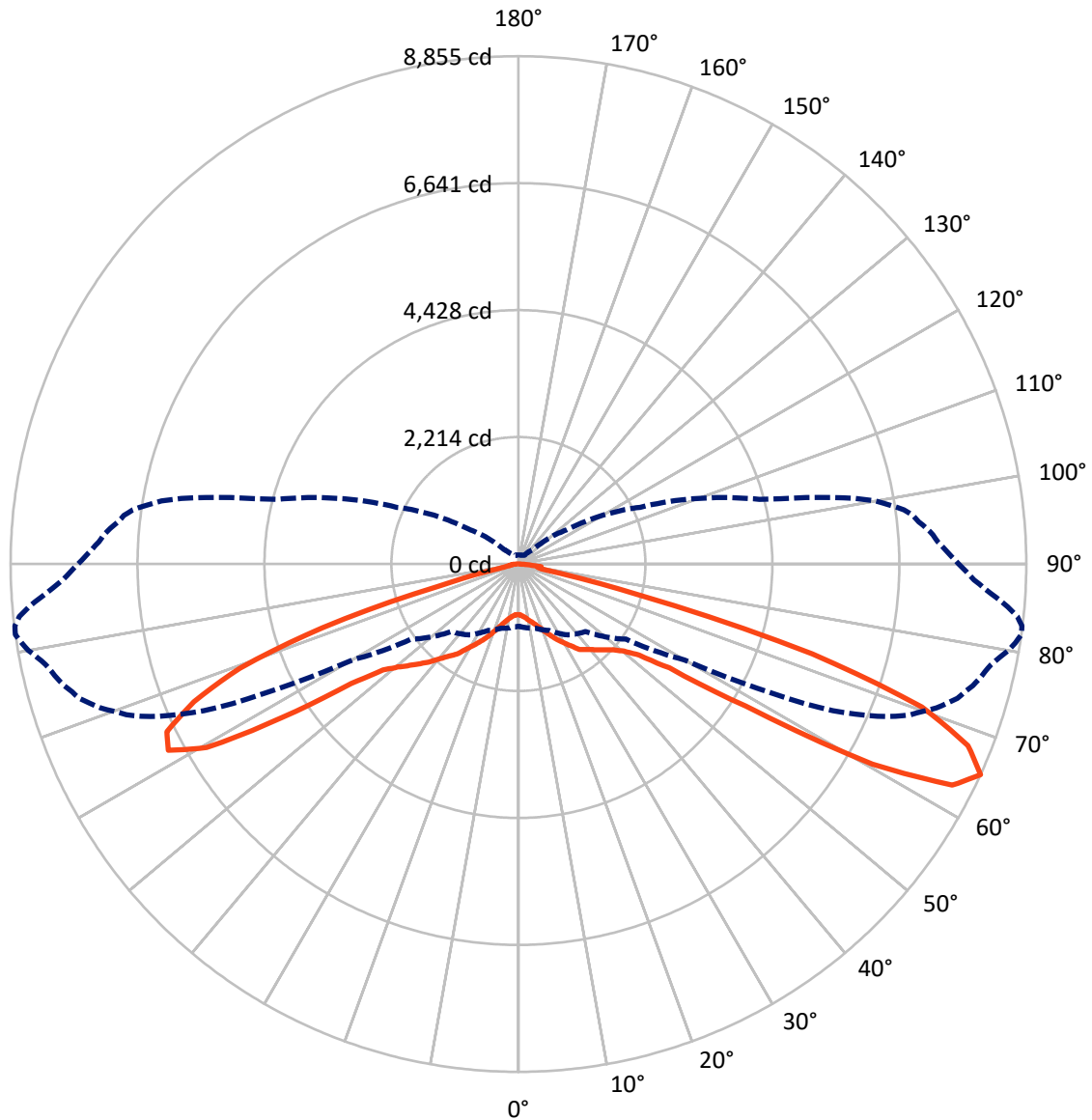
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3537.9   | 0.0    | 3537.9 |
|                    | % Fixture | 37.2     | 0.0    | 37.2   |
| <b>Street Side</b> | Lumens    | 5964.0   | 0.0    | 5964.0 |
|                    | % Fixture | 62.8     | 0.0    | 62.8   |
| <b>Total</b>       | Lumens    | 9501.9   | 0.0    | 9501.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.5   | 0.9       |
| 10°-20°   | 314.5  | 3.3       |
| 20°-30°   | 623.1  | 6.6       |
| 30°-40°   | 1068.2 | 11.2      |
| 40°-50°   | 1604.7 | 16.9      |
| 50°-60°   | 2229.5 | 23.5      |
| 60°-70°   | 2543.5 | 26.8      |
| 70°-80°   | 876.2  | 9.2       |
| 80°-90°   | 152.7  | 1.6       |
| 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°    | 9501.9 | 100.0     |
| 0°-180°   | 9501.9 | 100.0     |



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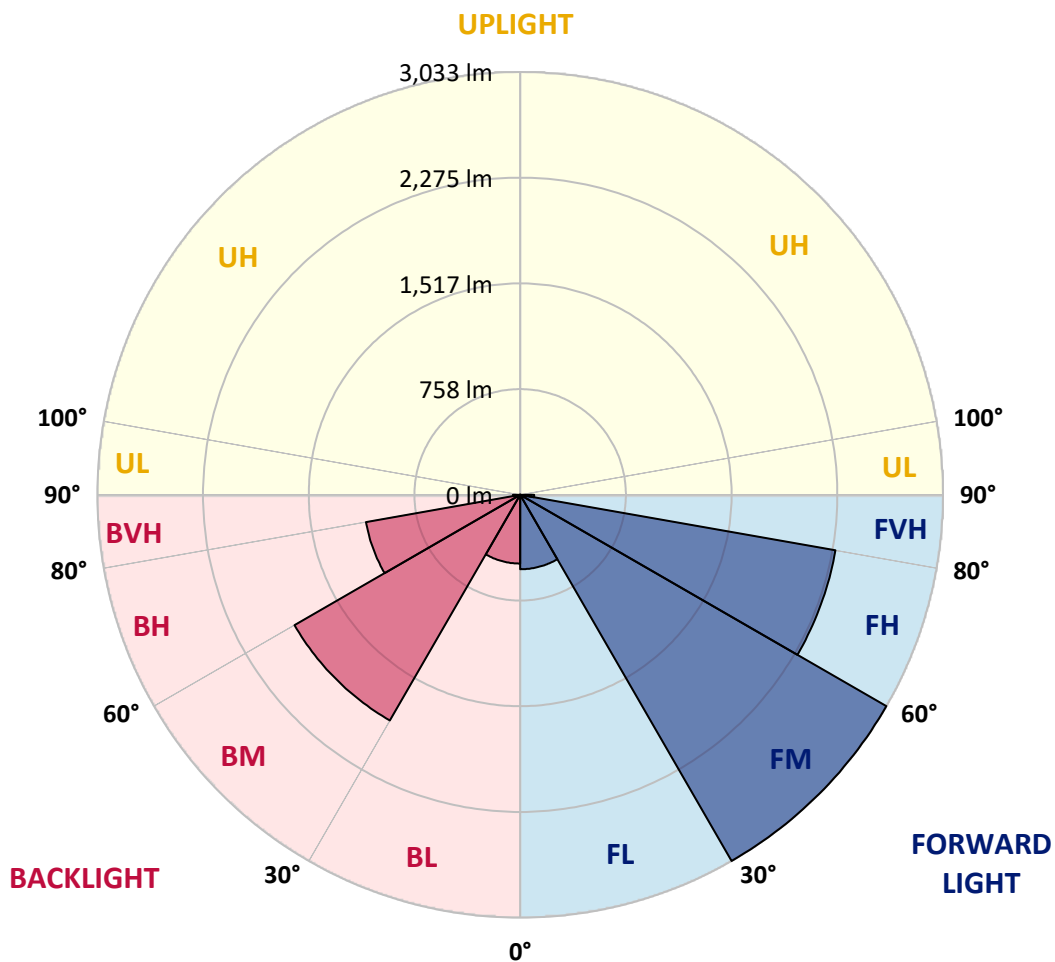
CATALOG NUMBER: VTS-E03-LED-E1-T2-7050

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 533.8  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 3033.2 | 31.9      |                         |      |         |
| FH   | (60°-80°)   | 2296.5 | 24.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 100.5  | 1.1       |                         |      | G2/225  |
| BL   | (0°-30°)    | 493.3  | 5.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1869.2 | 19.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1123.2 | 11.8      | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 52.2   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  |
| 2.5°  | 932.1  | 932.7  | 932.1  | 930.3  | 929.7  | 924.1  | 918.0  | 914.9  | 914.3  | 911.8  | 912.4  |
| 5°    | 990.0  | 988.1  | 985.7  | 982.6  | 979.5  | 970.3  | 959.8  | 954.3  | 952.4  | 950.6  | 948.1  |
| 7.5°  | 1041.7 | 1042.9 | 1041.7 | 1037.4 | 1029.4 | 1017.7 | 1004.1 | 995.5  | 994.9  | 993.1  | 991.2  |
| 10°   | 1108.2 | 1111.3 | 1103.9 | 1096.5 | 1085.4 | 1067.6 | 1052.2 | 1041.1 | 1039.2 | 1036.8 | 1035.5 |
| 12.5° | 1180.2 | 1180.8 | 1178.4 | 1161.8 | 1143.3 | 1118.7 | 1096.5 | 1085.4 | 1083.0 | 1079.9 | 1078.6 |
| 15°   | 1257.2 | 1257.8 | 1244.3 | 1228.2 | 1199.9 | 1170.4 | 1139.6 | 1127.3 | 1124.2 | 1124.8 | 1119.9 |
| 17.5° | 1318.1 | 1319.4 | 1306.4 | 1286.1 | 1252.3 | 1217.2 | 1183.9 | 1174.1 | 1172.2 | 1172.8 | 1170.4 |
| 20°   | 1344.6 | 1346.5 | 1338.5 | 1323.1 | 1291.0 | 1260.3 | 1236.3 | 1230.1 | 1229.5 | 1228.2 | 1233.2 |
| 22.5° | 1343.4 | 1344.0 | 1340.9 | 1334.8 | 1315.7 | 1297.8 | 1294.7 | 1298.4 | 1297.8 | 1299.0 | 1303.4 |
| 25°   | 1332.3 | 1334.1 | 1333.5 | 1336.0 | 1332.9 | 1339.7 | 1353.8 | 1366.8 | 1368.6 | 1371.1 | 1379.1 |
| 27.5° | 1360.6 | 1364.3 | 1360.0 | 1362.5 | 1367.4 | 1390.2 | 1419.1 | 1438.8 | 1442.5 | 1449.3 | 1456.0 |
| 30°   | 1471.4 | 1466.5 | 1461.0 | 1454.8 | 1457.9 | 1472.1 | 1504.7 | 1521.9 | 1523.8 | 1528.7 | 1537.9 |
| 32.5° | 1635.8 | 1630.3 | 1625.4 | 1615.5 | 1613.0 | 1606.9 | 1618.0 | 1622.3 | 1621.7 | 1626.6 | 1629.0 |
| 35°   | 1821.1 | 1821.7 | 1820.5 | 1827.9 | 1834.1 | 1802.7 | 1763.9 | 1753.4 | 1757.7 | 1752.2 | 1753.4 |
| 37.5° | 1979.4 | 1981.2 | 2013.8 | 2054.5 | 2066.2 | 2046.5 | 1961.5 | 1919.6 | 1905.5 | 1903.6 | 1889.5 |
| 40°   | 2154.8 | 2154.8 | 2204.1 | 2253.9 | 2286.6 | 2311.2 | 2210.2 | 2136.4 | 2106.2 | 2097.6 | 2062.5 |
| 42.5° | 2347.5 | 2337.7 | 2382.6 | 2437.4 | 2497.7 | 2553.8 | 2501.4 | 2418.3 | 2375.2 | 2359.8 | 2298.3 |
| 45°   | 2505.7 | 2499.6 | 2521.8 | 2572.9 | 2670.7 | 2780.3 | 2787.7 | 2745.2 | 2719.4 | 2687.4 | 2630.7 |
| 47.5° | 2603.0 | 2599.9 | 2612.9 | 2668.3 | 2790.8 | 2968.1 | 3067.2 | 3088.8 | 3073.4 | 3048.8 | 2994.0 |
| 50°   | 2641.2 | 2636.9 | 2646.1 | 2707.7 | 2845.0 | 3078.9 | 3298.1 | 3399.7 | 3407.1 | 3412.6 | 3395.4 |
| 52.5° | 2627.7 | 2622.1 | 2641.2 | 2692.9 | 2835.7 | 3117.7 | 3478.5 | 3673.7 | 3706.3 | 3734.0 | 3790.6 |
| 55°   | 2497.7 | 2489.1 | 2540.8 | 2638.1 | 2795.7 | 3103.6 | 3610.2 | 3937.2 | 4006.1 | 4080.0 | 4205.6 |
| 57.5° | 2298.9 | 2291.5 | 2366.0 | 2499.6 | 2724.9 | 3064.8 | 3698.9 | 4270.2 | 4425.4 | 4558.4 | 4914.8 |
| 60°   | 2107.4 | 2101.3 | 2145.0 | 2274.3 | 2495.3 | 2875.8 | 3589.3 | 4382.3 | 4642.7 | 4929.6 | 5580.4 |
| 62.5° | 1765.1 | 1748.5 | 1807.0 | 1915.9 | 2055.7 | 2378.9 | 3110.9 | 4132.9 | 4534.4 | 4956.1 | 5838.3 |
| 65°   | 1084.8 | 1108.8 | 1159.3 | 1280.0 | 1509.0 | 1662.9 | 2284.7 | 3343.7 | 3873.1 | 4402.0 | 5546.5 |
| 67.5° | 688.9  | 695.7  | 733.3  | 817.0  | 994.3  | 1148.8 | 1384.6 | 2098.2 | 2506.4 | 3026.6 | 4354.6 |
| 70°   | 590.4  | 594.7  | 626.7  | 714.2  | 836.7  | 1026.9 | 1047.9 | 1095.9 | 1242.4 | 1573.6 | 2559.9 |
| 72.5° | 465.4  | 472.8  | 498.1  | 573.8  | 721.6  | 926.0  | 1293.5 | 866.2  | 836.7  | 864.4  | 1249.2 |
| 75°   | 277.0  | 285.7  | 306.6  | 347.8  | 463.6  | 708.0  | 1355.1 | 1007.8 | 939.5  | 885.9  | 861.9  |
| 77.5° | 146.5  | 140.4  | 154.5  | 178.5  | 238.3  | 377.4  | 1018.3 | 1235.0 | 1187.0 | 1123.0 | 986.9  |
| 80°   | 72.6   | 75.1   | 79.4   | 84.3   | 106.5  | 153.3  | 509.2  | 1277.5 | 1416.0 | 1477.6 | 1356.9 |
| 82.5° | 28.9   | 32.6   | 46.2   | 49.3   | 58.5   | 65.3   | 163.8  | 708.0  | 1014.0 | 1375.4 | 1795.9 |
| 85°   | 14.8   | 14.2   | 24.6   | 29.6   | 34.5   | 30.8   | 57.9   | 264.1  | 475.3  | 740.6  | 1199.9 |
| 87.5° | 1.8    | 2.5    | 5.5    | 7.4    | 10.5   | 9.9    | 16.6   | 57.3   | 91.1   | 129.3  | 181.6  |
| 90°   | 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  |
| 2.5°  | 909.3  | 908.7  | 908.7  | 906.3  | 906.3  | 906.9  | 905.0  | 903.8  | 903.8  | 904.4  | 901.9  |
| 5°    | 946.3  | 944.4  | 944.4  | 942.0  | 938.9  | 938.9  | 936.4  | 935.8  | 934.6  | 932.1  | 930.3  |
| 7.5°  | 989.4  | 987.5  | 984.4  | 982.6  | 981.4  | 979.5  | 976.4  | 975.2  | 972.7  | 970.3  | 967.8  |
| 10°   | 1033.7 | 1031.2 | 1030.0 | 1026.9 | 1025.7 | 1022.0 | 1020.2 | 1020.8 | 1015.8 | 1014.0 | 1014.6 |
| 12.5° | 1078.0 | 1075.6 | 1071.3 | 1070.0 | 1069.4 | 1065.7 | 1063.9 | 1062.6 | 1058.9 | 1058.3 | 1056.5 |
| 15°   | 1117.4 | 1118.7 | 1116.8 | 1113.7 | 1111.3 | 1110.7 | 1108.8 | 1107.6 | 1105.1 | 1102.7 | 1100.2 |
| 17.5° | 1168.5 | 1170.4 | 1167.9 | 1163.6 | 1163.6 | 1163.0 | 1163.6 | 1163.0 | 1158.7 | 1160.5 | 1159.3 |
| 20°   | 1233.8 | 1235.0 | 1228.9 | 1230.7 | 1231.9 | 1231.3 | 1233.2 | 1235.0 | 1233.8 | 1233.8 | 1235.6 |
| 22.5° | 1308.9 | 1310.7 | 1307.1 | 1309.5 | 1313.2 | 1310.1 | 1315.7 | 1315.1 | 1316.3 | 1318.1 | 1318.8 |
| 25°   | 1385.9 | 1389.6 | 1386.5 | 1393.2 | 1390.8 | 1393.2 | 1400.0 | 1398.2 | 1401.2 | 1406.2 | 1408.0 |
| 27.5° | 1462.8 | 1465.3 | 1465.9 | 1470.2 | 1474.5 | 1478.2 | 1486.8 | 1486.8 | 1489.3 | 1497.9 | 1497.9 |
| 30°   | 1543.5 | 1545.9 | 1548.4 | 1554.5 | 1557.0 | 1563.8 | 1572.4 | 1574.9 | 1573.6 | 1585.9 | 1589.6 |
| 32.5° | 1636.4 | 1638.9 | 1643.2 | 1650.6 | 1653.7 | 1660.4 | 1660.4 | 1667.2 | 1672.1 | 1682.6 | 1683.2 |
| 35°   | 1760.2 | 1762.0 | 1760.2 | 1759.6 | 1763.9 | 1773.1 | 1773.7 | 1783.6 | 1787.9 | 1798.4 | 1801.4 |
| 37.5° | 1883.9 | 1883.3 | 1875.3 | 1866.7 | 1867.3 | 1863.6 | 1861.2 | 1865.5 | 1867.3 | 1867.9 | 1874.7 |
| 40°   | 2050.8 | 2034.8 | 2022.5 | 2000.9 | 1991.1 | 1975.7 | 1966.4 | 1965.8 | 1956.0 | 1954.7 | 1956.6 |
| 42.5° | 2269.3 | 2250.9 | 2221.9 | 2185.6 | 2157.9 | 2129.6 | 2108.6 | 2096.3 | 2074.8 | 2063.7 | 2054.5 |
| 45°   | 2574.7 | 2529.1 | 2494.7 | 2451.6 | 2398.0 | 2348.8 | 2297.0 | 2273.6 | 2232.4 | 2207.2 | 2178.8 |
| 47.5° | 2947.8 | 2902.9 | 2849.9 | 2805.6 | 2735.4 | 2667.1 | 2596.3 | 2534.1 | 2462.0 | 2404.8 | 2358.0 |
| 50°   | 3352.9 | 3326.4 | 3288.3 | 3247.0 | 3156.5 | 3111.6 | 3022.3 | 2937.9 | 2860.4 | 2758.2 | 2668.9 |
| 52.5° | 3768.5 | 3783.9 | 3775.2 | 3760.5 | 3703.2 | 3686.0 | 3609.0 | 3506.2 | 3428.0 | 3357.8 | 3202.7 |
| 55°   | 4280.7 | 4299.2 | 4336.1 | 4357.7 | 4350.9 | 4394.6 | 4375.5 | 4295.5 | 4264.1 | 4231.5 | 4121.2 |
| 57.5° | 5064.4 | 5196.2 | 5337.2 | 5460.9 | 5489.9 | 5645.0 | 5611.8 | 5691.8 | 5748.4 | 5707.8 | 5672.1 |
| 60°   | 5899.9 | 6165.9 | 6405.4 | 6655.9 | 6859.7 | 7012.4 | 7214.3 | 7350.4 | 7436.0 | 7589.9 | 7602.2 |
| 62.5° | 6236.7 | 6598.1 | 6902.2 | 7192.8 | 7434.7 | 7646.5 | 7828.8 | 8016.6 | 8170.5 | 8309.6 | 8410.0 |
| 65°   | 6052.0 | 6429.4 | 6798.2 | 7093.1 | 7325.8 | 7508.0 | 7706.3 | 7855.2 | 8006.7 | 8096.0 | 8201.3 |
| 67.5° | 5031.2 | 5531.1 | 5984.9 | 6317.3 | 6635.6 | 6820.9 | 7055.5 | 7202.0 | 7362.7 | 7456.9 | 7524.6 |
| 70°   | 3280.3 | 3931.0 | 4551.0 | 5055.2 | 5484.9 | 5701.0 | 5984.2 | 6184.3 | 6377.7 | 6382.6 | 6495.2 |
| 72.5° | 1770.0 | 2314.3 | 2833.3 | 3348.6 | 3838.7 | 4126.2 | 4405.7 | 4648.9 | 4841.0 | 4759.1 | 4871.1 |
| 75°   | 985.7  | 1240.6 | 1524.4 | 1834.1 | 2132.7 | 2297.0 | 2505.7 | 2507.0 | 2606.1 | 2450.3 | 2489.7 |
| 77.5° | 948.1  | 936.4  | 940.7  | 949.4  | 964.1  | 932.7  | 932.1  | 913.0  | 883.5  | 829.9  | 839.1  |
| 80°   | 1245.5 | 1096.5 | 989.4  | 821.3  | 661.2  | 539.3  | 505.5  | 513.5  | 537.5  | 585.5  | 646.4  |
| 82.5° | 1800.8 | 1675.2 | 1495.4 | 1230.7 | 966.0  | 745.0  | 612.0  | 543.0  | 539.9  | 588.0  | 680.3  |
| 85°   | 1311.4 | 1387.1 | 1375.4 | 1148.2 | 946.9  | 769.0  | 559.6  | 472.8  | 391.6  | 372.5  | 405.1  |
| 87.5° | 193.3  | 160.1  | 180.4  | 150.8  | 109.6  | 85.0   | 74.5   | 59.7   | 57.3   | 58.5   | 64.0   |
| 90°   | 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  |
| 2.5°  | 902.6  | 900.1  | 897.6  | 899.5  | 897.6  | 897.0  | 895.2  | 893.9  | 893.3  | 893.3  | 893.3  |
| 5°    | 930.3  | 927.2  | 925.3  | 924.7  | 922.9  | 921.0  | 920.4  | 917.3  | 916.7  | 916.7  | 914.9  |
| 7.5°  | 967.8  | 965.4  | 962.3  | 960.4  | 959.2  | 956.1  | 953.0  | 952.4  | 951.8  | 949.4  | 947.5  |
| 10°   | 1011.5 | 1007.8 | 1004.1 | 1004.1 | 1001.7 | 1001.1 | 998.0  | 993.7  | 993.1  | 989.4  | 988.1  |
| 12.5° | 1052.8 | 1051.6 | 1047.2 | 1046.0 | 1044.2 | 1042.3 | 1040.5 | 1038.6 | 1036.8 | 1033.7 | 1034.9 |
| 15°   | 1102.0 | 1099.0 | 1095.3 | 1095.9 | 1095.3 | 1092.8 | 1090.3 | 1088.5 | 1087.3 | 1086.0 | 1086.0 |
| 17.5° | 1161.1 | 1159.9 | 1159.3 | 1156.2 | 1153.8 | 1155.6 | 1155.6 | 1155.6 | 1152.5 | 1153.1 | 1153.8 |
| 20°   | 1236.3 | 1237.5 | 1236.3 | 1233.8 | 1233.2 | 1235.0 | 1230.7 | 1237.5 | 1233.8 | 1231.3 | 1232.6 |
| 22.5° | 1319.4 | 1323.7 | 1318.8 | 1319.4 | 1322.4 | 1323.7 | 1319.4 | 1324.9 | 1323.1 | 1319.4 | 1322.4 |
| 25°   | 1409.9 | 1412.9 | 1410.5 | 1409.9 | 1411.7 | 1416.0 | 1415.4 | 1414.8 | 1419.1 | 1415.4 | 1417.3 |
| 27.5° | 1502.8 | 1504.7 | 1505.9 | 1507.8 | 1509.0 | 1508.4 | 1510.8 | 1510.8 | 1513.3 | 1509.0 | 1510.8 |
| 30°   | 1595.2 | 1595.2 | 1597.6 | 1600.1 | 1600.1 | 1600.1 | 1605.0 | 1605.6 | 1602.0 | 1603.2 | 1598.9 |
| 32.5° | 1693.7 | 1694.3 | 1696.8 | 1696.8 | 1701.7 | 1702.3 | 1707.8 | 1700.5 | 1707.8 | 1701.7 | 1702.9 |
| 35°   | 1809.4 | 1817.4 | 1818.7 | 1824.8 | 1829.8 | 1831.6 | 1831.6 | 1832.2 | 1839.0 | 1834.1 | 1835.9 |
| 37.5° | 1877.2 | 1879.0 | 1883.9 | 1887.0 | 1887.0 | 1889.5 | 1891.3 | 1889.5 | 1891.3 | 1890.7 | 1892.5 |
| 40°   | 1957.2 | 1955.3 | 1960.9 | 1962.1 | 1959.7 | 1962.7 | 1962.1 | 1960.3 | 1965.2 | 1961.5 | 1964.0 |
| 42.5° | 2054.5 | 2044.0 | 2043.4 | 2048.3 | 2043.4 | 2045.8 | 2045.2 | 2040.9 | 2047.1 | 2048.9 | 2047.1 |
| 45°   | 2158.5 | 2153.0 | 2141.9 | 2141.9 | 2137.0 | 2135.1 | 2135.7 | 2135.1 | 2135.7 | 2143.1 | 2145.6 |
| 47.5° | 2327.8 | 2294.0 | 2274.9 | 2257.0 | 2242.2 | 2241.6 | 2234.9 | 2238.6 | 2243.5 | 2255.8 | 2266.9 |
| 50°   | 2611.6 | 2533.5 | 2485.4 | 2441.1 | 2409.1 | 2398.0 | 2385.1 | 2383.8 | 2388.2 | 2402.3 | 2421.4 |
| 52.5° | 3117.7 | 3009.4 | 2907.2 | 2812.3 | 2729.9 | 2666.4 | 2635.0 | 2618.4 | 2612.3 | 2626.4 | 2644.9 |
| 55°   | 4043.7 | 3839.3 | 3695.2 | 3599.2 | 3394.2 | 3307.3 | 3195.9 | 3144.8 | 3094.9 | 3099.9 | 3131.3 |
| 57.5° | 5625.9 | 5515.7 | 5395.1 | 5227.0 | 5101.4 | 4949.9 | 4671.7 | 4516.5 | 4523.3 | 4559.6 | 4446.3 |
| 60°   | 7699.5 | 7588.0 | 7538.2 | 7385.5 | 7298.1 | 7237.1 | 7089.4 | 6832.0 | 6740.9 | 6723.7 | 6515.6 |
| 62.5° | 8486.9 | 8513.4 | 8552.8 | 8595.9 | 8593.4 | 8619.9 | 8490.6 | 8406.9 | 8301.6 | 8164.9 | 7959.3 |
| 65°   | 8281.3 | 8348.4 | 8428.4 | 8544.2 | 8675.9 | 8773.2 | 8855.1 | 8845.2 | 8746.7 | 8564.5 | 8347.2 |
| 67.5° | 7585.0 | 7651.5 | 7710.0 | 7865.1 | 8081.2 | 8278.8 | 8453.7 | 8572.5 | 8506.6 | 8355.8 | 8102.1 |
| 70°   | 6538.3 | 6586.4 | 6623.3 | 6758.1 | 6995.2 | 7236.5 | 7464.9 | 7664.4 | 7644.1 | 7461.2 | 7258.7 |
| 72.5° | 4737.5 | 4853.9 | 4916.7 | 4907.5 | 5054.0 | 5324.3 | 5356.3 | 5526.8 | 5574.2 | 5377.2 | 5054.6 |
| 75°   | 2308.1 | 2310.0 | 2237.3 | 2213.3 | 2220.7 | 2267.5 | 2178.2 | 2183.8 | 2153.0 | 2013.2 | 1898.1 |
| 77.5° | 806.5  | 784.4  | 731.4  | 668.6  | 578.7  | 494.4  | 408.8  | 371.9  | 359.5  | 323.2  | 298.0  |
| 80°   | 695.1  | 727.7  | 717.2  | 665.5  | 570.7  | 455.0  | 339.8  | 251.8  | 214.9  | 201.9  | 189.6  |
| 82.5° | 789.3  | 914.9  | 994.9  | 990.6  | 860.7  | 646.4  | 403.3  | 231.5  | 165.0  | 144.7  | 133.0  |
| 85°   | 440.2  | 473.4  | 482.7  | 439.6  | 365.1  | 249.3  | 139.1  | 97.9   | 83.1   | 75.7   | 68.3   |
| 87.5° | 70.2   | 64.0   | 62.8   | 54.8   | 51.7   | 47.4   | 41.9   | 39.4   | 36.3   | 34.5   | 34.5   |
| 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: P159201

CATALOG NUMBER: VTS-E03-LED-E1-T2-7050

**CANDELA DISTRIBUTION (continued):**

|       | 87°    | 88°    | 89°    | 90°    | 91°    | 92°    | 93°    | 94°    | 95°    | 96°    | 97°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  |
| 2.5°  | 892.7  | 892.1  | 890.2  | 888.4  | 887.2  | 886.6  | 885.9  | 884.7  | 884.1  | 883.5  | 882.2  |
| 5°    | 913.6  | 912.4  | 909.3  | 906.3  | 905.0  | 903.2  | 901.3  | 900.1  | 898.9  | 898.3  | 895.8  |
| 7.5°  | 946.3  | 945.0  | 941.3  | 938.9  | 938.3  | 933.3  | 932.7  | 930.9  | 927.8  | 927.2  | 923.5  |
| 10°   | 985.7  | 985.1  | 982.0  | 980.1  | 978.9  | 976.4  | 972.7  | 969.7  | 966.6  | 966.6  | 964.1  |
| 12.5° | 1031.2 | 1028.8 | 1030.6 | 1026.3 | 1025.1 | 1022.6 | 1020.8 | 1020.2 | 1016.5 | 1013.4 | 1012.8 |
| 15°   | 1084.8 | 1081.7 | 1081.7 | 1080.5 | 1079.3 | 1076.8 | 1076.2 | 1076.8 | 1073.1 | 1074.3 | 1070.6 |
| 17.5° | 1151.3 | 1152.5 | 1151.9 | 1151.9 | 1148.8 | 1148.8 | 1143.9 | 1150.1 | 1145.7 | 1148.8 | 1147.6 |
| 20°   | 1234.4 | 1235.0 | 1233.8 | 1235.6 | 1236.9 | 1236.3 | 1235.6 | 1235.0 | 1236.9 | 1239.3 | 1237.5 |
| 22.5° | 1323.1 | 1323.1 | 1322.4 | 1329.2 | 1321.8 | 1327.4 | 1329.2 | 1325.5 | 1335.4 | 1334.1 | 1336.0 |
| 25°   | 1419.1 | 1419.1 | 1424.0 | 1429.6 | 1430.8 | 1426.5 | 1429.0 | 1425.9 | 1432.0 | 1437.0 | 1438.2 |
| 27.5° | 1508.4 | 1516.4 | 1520.1 | 1516.4 | 1519.5 | 1526.2 | 1525.6 | 1525.6 | 1529.9 | 1528.7 | 1540.4 |
| 30°   | 1600.1 | 1605.0 | 1610.0 | 1607.5 | 1608.7 | 1617.3 | 1618.0 | 1618.6 | 1624.1 | 1632.1 | 1640.7 |
| 32.5° | 1704.8 | 1709.7 | 1707.2 | 1715.2 | 1714.6 | 1725.1 | 1726.9 | 1728.8 | 1746.0 | 1742.9 | 1760.8 |
| 35°   | 1833.4 | 1838.4 | 1835.9 | 1844.5 | 1843.3 | 1847.0 | 1853.8 | 1861.2 | 1864.2 | 1882.1 | 1896.2 |
| 37.5° | 1893.8 | 1893.8 | 1899.3 | 1909.2 | 1912.9 | 1919.0 | 1929.5 | 1938.7 | 1954.1 | 1973.2 | 1995.4 |
| 40°   | 1966.4 | 1968.3 | 1975.7 | 1986.1 | 1992.9 | 2007.1 | 2026.1 | 2039.1 | 2062.5 | 2083.4 | 2109.3 |
| 42.5° | 2054.5 | 2062.5 | 2071.1 | 2085.3 | 2100.0 | 2122.2 | 2149.3 | 2165.9 | 2196.7 | 2223.8 | 2255.8 |
| 45°   | 2157.3 | 2165.3 | 2185.6 | 2211.5 | 2233.0 | 2257.6 | 2279.8 | 2319.2 | 2346.9 | 2375.2 | 2402.9 |
| 47.5° | 2281.6 | 2305.0 | 2321.7 | 2352.4 | 2378.9 | 2411.6 | 2439.3 | 2476.2 | 2506.4 | 2540.8 | 2564.2 |
| 50°   | 2441.1 | 2470.0 | 2491.6 | 2531.6 | 2557.5 | 2593.8 | 2628.9 | 2656.6 | 2687.4 | 2721.2 | 2740.3 |
| 52.5° | 2670.1 | 2699.7 | 2726.8 | 2776.6 | 2808.7 | 2833.3 | 2880.1 | 2914.5 | 2942.9 | 2967.5 | 2988.4 |
| 55°   | 3166.4 | 3157.7 | 3232.8 | 3329.5 | 3340.6 | 3429.9 | 3446.5 | 3475.4 | 3527.8 | 3535.1 | 3593.6 |
| 57.5° | 4584.2 | 4539.9 | 4648.9 | 4790.5 | 4765.8 | 4720.9 | 4908.7 | 4920.4 | 4893.9 | 4964.7 | 4884.7 |
| 60°   | 6546.3 | 6468.8 | 6498.3 | 6537.1 | 6481.1 | 6454.6 | 6463.8 | 6490.3 | 6464.5 | 6436.1 | 6358.6 |
| 62.5° | 7856.5 | 7737.0 | 7651.5 | 7579.4 | 7488.3 | 7422.4 | 7348.6 | 7257.4 | 7232.8 | 7129.4 | 7042.6 |
| 65°   | 8136.0 | 7950.1 | 7814.6 | 7678.6 | 7553.0 | 7436.6 | 7325.2 | 7247.0 | 7143.5 | 7021.0 | 6930.5 |
| 67.5° | 7828.8 | 7598.5 | 7400.3 | 7202.6 | 7060.4 | 6889.3 | 6805.5 | 6678.1 | 6550.7 | 6410.3 | 6327.2 |
| 70°   | 6936.1 | 6696.0 | 6446.6 | 6253.3 | 6060.0 | 5848.2 | 5806.9 | 5656.1 | 5582.8 | 5391.4 | 5358.1 |
| 72.5° | 4787.4 | 4627.3 | 4515.9 | 4277.0 | 4159.4 | 4051.1 | 4016.6 | 3876.8 | 3891.6 | 3681.7 | 3758.0 |
| 75°   | 1702.3 | 1679.5 | 1646.9 | 1512.1 | 1488.1 | 1446.2 | 1435.1 | 1425.3 | 1525.0 | 1386.5 | 1486.8 |
| 77.5° | 292.4  | 290.6  | 274.0  | 266.0  | 281.4  | 271.5  | 274.0  | 269.0  | 298.0  | 302.3  | 295.5  |
| 80°   | 181.6  | 176.7  | 171.2  | 167.5  | 168.1  | 164.4  | 165.0  | 166.2  | 168.1  | 167.5  | 169.3  |
| 82.5° | 124.4  | 120.1  | 117.6  | 115.1  | 118.8  | 120.1  | 123.1  | 126.2  | 131.1  | 134.2  | 137.9  |
| 85°   | 67.7   | 62.2   | 62.2   | 61.6   | 66.5   | 70.2   | 75.1   | 81.3   | 89.9   | 97.3   | 105.3  |
| 87.5° | 34.5   | 33.2   | 33.9   | 35.1   | 39.4   | 42.5   | 48.6   | 54.2   | 61.6   | 69.6   | 77.0   |
| 90°   | 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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CATALOG NUMBER: VTS-E03-LED-E1-T2-7050

**CANDELA DISTRIBUTION (continued):**

|       | 98°    | 99°    | 100°   | 101°   | 102°   | 103°   | 104°   | 105°   | 115°   | 125°   | 135°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  |
| 2.5°  | 881.6  | 881.6  | 881.0  | 881.0  | 880.4  | 879.8  | 879.2  | 877.3  | 870.5  | 864.4  | 860.1  |
| 5°    | 895.2  | 893.3  | 892.7  | 890.9  | 890.2  | 889.0  | 887.2  | 885.3  | 873.0  | 861.9  | 853.9  |
| 7.5°  | 922.9  | 920.4  | 919.2  | 917.3  | 915.5  | 913.0  | 910.6  | 908.7  | 893.9  | 881.0  | 871.2  |
| 10°   | 959.2  | 958.0  | 957.4  | 954.9  | 954.9  | 951.2  | 950.6  | 946.3  | 930.3  | 918.6  | 910.0  |
| 12.5° | 1009.7 | 1007.2 | 1006.6 | 1003.5 | 1004.8 | 1003.5 | 1002.3 | 999.8  | 988.1  | 974.6  | 962.9  |
| 15°   | 1072.5 | 1072.5 | 1069.4 | 1066.9 | 1067.6 | 1066.3 | 1068.8 | 1065.7 | 1058.3 | 1046.0 | 1026.9 |
| 17.5° | 1148.2 | 1147.0 | 1148.2 | 1146.4 | 1147.6 | 1148.8 | 1145.7 | 1146.4 | 1142.7 | 1127.3 | 1099.0 |
| 20°   | 1236.3 | 1234.4 | 1241.8 | 1238.7 | 1245.5 | 1239.3 | 1240.6 | 1242.4 | 1242.4 | 1222.1 | 1183.9 |
| 22.5° | 1337.2 | 1336.0 | 1336.0 | 1342.1 | 1344.6 | 1345.2 | 1347.7 | 1349.5 | 1354.5 | 1328.6 | 1267.7 |
| 25°   | 1438.2 | 1442.5 | 1443.1 | 1451.1 | 1454.8 | 1454.8 | 1456.7 | 1463.4 | 1478.2 | 1442.5 | 1363.7 |
| 27.5° | 1541.0 | 1551.5 | 1553.9 | 1559.5 | 1565.0 | 1570.6 | 1574.9 | 1579.8 | 1603.8 | 1565.0 | 1462.2 |
| 30°   | 1643.8 | 1655.5 | 1664.1 | 1670.3 | 1677.1 | 1690.6 | 1693.1 | 1702.9 | 1742.9 | 1695.5 | 1555.8 |
| 32.5° | 1764.5 | 1781.1 | 1792.2 | 1800.2 | 1810.7 | 1823.6 | 1831.0 | 1843.3 | 1882.1 | 1804.5 | 1624.1 |
| 35°   | 1908.6 | 1918.4 | 1934.4 | 1948.0 | 1954.1 | 1976.3 | 1988.0 | 1991.1 | 2020.6 | 1898.7 | 1674.6 |
| 37.5° | 2008.3 | 2024.9 | 2052.6 | 2071.7 | 2082.8 | 2095.1 | 2114.8 | 2127.7 | 2156.1 | 1984.3 | 1699.8 |
| 40°   | 2135.1 | 2160.4 | 2182.5 | 2210.8 | 2228.7 | 2237.9 | 2257.6 | 2268.1 | 2271.8 | 2057.5 | 1691.8 |
| 42.5° | 2289.7 | 2312.4 | 2342.0 | 2364.8 | 2378.3 | 2388.8 | 2404.8 | 2409.1 | 2361.1 | 2092.0 | 1648.7 |
| 45°   | 2434.9 | 2470.0 | 2495.3 | 2511.9 | 2521.8 | 2527.3 | 2537.1 | 2537.8 | 2434.9 | 2074.8 | 1574.9 |
| 47.5° | 2591.3 | 2616.6 | 2640.0 | 2651.7 | 2650.4 | 2651.7 | 2648.0 | 2645.5 | 2471.9 | 2015.1 | 1480.1 |
| 50°   | 2764.3 | 2781.0 | 2790.8 | 2796.3 | 2799.4 | 2787.7 | 2771.1 | 2760.0 | 2475.0 | 1930.1 | 1384.0 |
| 52.5° | 2996.4 | 3017.4 | 3015.5 | 3014.9 | 2990.3 | 2979.2 | 2934.9 | 2912.1 | 2457.1 | 1830.4 | 1275.7 |
| 55°   | 3584.4 | 3564.1 | 3524.1 | 3543.8 | 3443.4 | 3391.1 | 3322.1 | 3258.1 | 2480.5 | 1735.6 | 1150.1 |
| 57.5° | 4916.7 | 4924.7 | 4810.8 | 4749.8 | 4580.5 | 4368.7 | 4198.2 | 4032.6 | 2691.1 | 1677.7 | 986.3  |
| 60°   | 6306.9 | 6202.2 | 6057.5 | 5837.1 | 5619.2 | 5304.6 | 5001.0 | 4714.1 | 2901.0 | 1617.3 | 792.4  |
| 62.5° | 6913.9 | 6764.9 | 6546.3 | 6261.3 | 5919.0 | 5534.2 | 5156.2 | 4806.5 | 2799.4 | 1422.2 | 576.3  |
| 65°   | 6790.8 | 6563.0 | 6321.6 | 5987.9 | 5571.8 | 5150.0 | 4708.6 | 4351.5 | 2342.0 | 1060.8 | 355.2  |
| 67.5° | 6146.8 | 5953.5 | 5698.6 | 5302.7 | 4857.6 | 4418.6 | 4014.1 | 3613.9 | 1739.9 | 661.2  | 198.9  |
| 70°   | 5188.2 | 4999.2 | 4740.6 | 4335.5 | 3891.0 | 3471.1 | 3042.6 | 2716.3 | 1108.8 | 318.9  | 143.4  |
| 72.5° | 3599.2 | 3445.9 | 3263.0 | 2974.3 | 2584.6 | 2202.8 | 1912.9 | 1662.3 | 614.4  | 169.3  | 131.1  |
| 75°   | 1461.6 | 1462.2 | 1429.0 | 1307.1 | 1104.5 | 952.4  | 812.1  | 688.9  | 256.7  | 144.1  | 129.3  |
| 77.5° | 331.2  | 336.8  | 368.2  | 349.1  | 314.6  | 294.3  | 263.5  | 232.7  | 156.4  | 148.4  | 130.5  |
| 80°   | 167.5  | 168.1  | 166.2  | 166.8  | 165.0  | 165.6  | 163.2  | 161.3  | 146.5  | 152.7  | 130.5  |
| 82.5° | 139.8  | 142.8  | 142.2  | 142.2  | 142.8  | 142.8  | 142.8  | 142.2  | 152.1  | 160.7  | 126.2  |
| 85°   | 110.8  | 117.0  | 121.9  | 126.8  | 132.4  | 136.1  | 137.9  | 139.8  | 147.8  | 158.2  | 114.5  |
| 87.5° | 83.7   | 91.1   | 97.3   | 102.2  | 110.8  | 110.8  | 117.0  | 121.3  | 121.3  | 123.7  | 60.3   |
| 90°   | 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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CATALOG NUMBER: VTS-E03-LED-E1-T2-7050

**CANDELA DISTRIBUTION (continued):**

|       | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 884.1  | 884.1  | 884.1  | 884.1  | 884.1  |
| 2.5°  | 853.9  | 851.5  | 849.0  | 847.8  | 845.3  |
| 5°    | 847.8  | 842.8  | 839.8  | 839.8  | 837.3  |
| 7.5°  | 865.6  | 863.8  | 859.5  | 857.0  | 859.5  |
| 10°   | 903.8  | 900.7  | 895.8  | 892.1  | 893.9  |
| 12.5° | 954.9  | 942.6  | 932.7  | 928.4  | 925.3  |
| 15°   | 1007.8 | 983.2  | 963.5  | 952.4  | 949.4  |
| 17.5° | 1064.5 | 1021.4 | 991.8  | 975.2  | 972.1  |
| 20°   | 1122.4 | 1068.8 | 1026.9 | 1005.4 | 1004.8 |
| 22.5° | 1191.9 | 1120.5 | 1066.9 | 1038.6 | 1036.8 |
| 25°   | 1265.2 | 1166.7 | 1095.9 | 1059.6 | 1055.9 |
| 27.5° | 1328.6 | 1203.6 | 1113.7 | 1070.6 | 1066.9 |
| 30°   | 1381.5 | 1231.3 | 1128.5 | 1078.6 | 1073.7 |
| 32.5° | 1419.7 | 1247.3 | 1134.7 | 1081.1 | 1075.6 |
| 35°   | 1432.0 | 1241.2 | 1117.4 | 1058.9 | 1052.8 |
| 37.5° | 1415.4 | 1201.2 | 1069.4 | 1004.8 | 997.4  |
| 40°   | 1365.5 | 1131.0 | 991.2  | 924.7  | 915.5  |
| 42.5° | 1289.2 | 1044.8 | 897.0  | 833.6  | 821.9  |
| 45°   | 1195.0 | 947.5  | 803.4  | 732.6  | 727.1  |
| 47.5° | 1096.5 | 845.3  | 698.2  | 634.1  | 627.4  |
| 50°   | 990.0  | 727.1  | 595.3  | 525.8  | 525.8  |
| 52.5° | 863.2  | 612.0  | 475.9  | 423.6  | 419.3  |
| 55°   | 717.2  | 482.1  | 379.2  | 339.2  | 333.7  |
| 57.5° | 560.3  | 370.6  | 302.9  | 279.5  | 273.4  |
| 60°   | 411.9  | 278.3  | 243.8  | 230.9  | 228.4  |
| 62.5° | 279.5  | 211.8  | 196.4  | 190.9  | 190.2  |
| 65°   | 189.0  | 165.0  | 160.7  | 158.8  | 159.5  |
| 67.5° | 145.3  | 137.3  | 135.4  | 134.8  | 134.8  |
| 70°   | 126.2  | 121.3  | 119.4  | 120.1  | 119.4  |
| 72.5° | 118.8  | 112.1  | 112.7  | 113.9  | 113.3  |
| 75°   | 116.4  | 107.7  | 110.2  | 110.8  | 108.4  |
| 77.5° | 114.5  | 102.8  | 109.0  | 110.8  | 104.0  |
| 80°   | 110.8  | 98.5   | 113.3  | 113.9  | 102.2  |
| 82.5° | 101.6  | 87.4   | 113.3  | 104.7  | 92.3   |
| 85°   | 86.2   | 66.5   | 128.1  | 91.1   | 68.3   |
| 87.5° | 54.8   | 39.4   | 86.8   | 62.2   | 41.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)