

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: P159199

Luminaire Tested: **VTS-E03-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159199
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-T2-7030
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8457.8 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

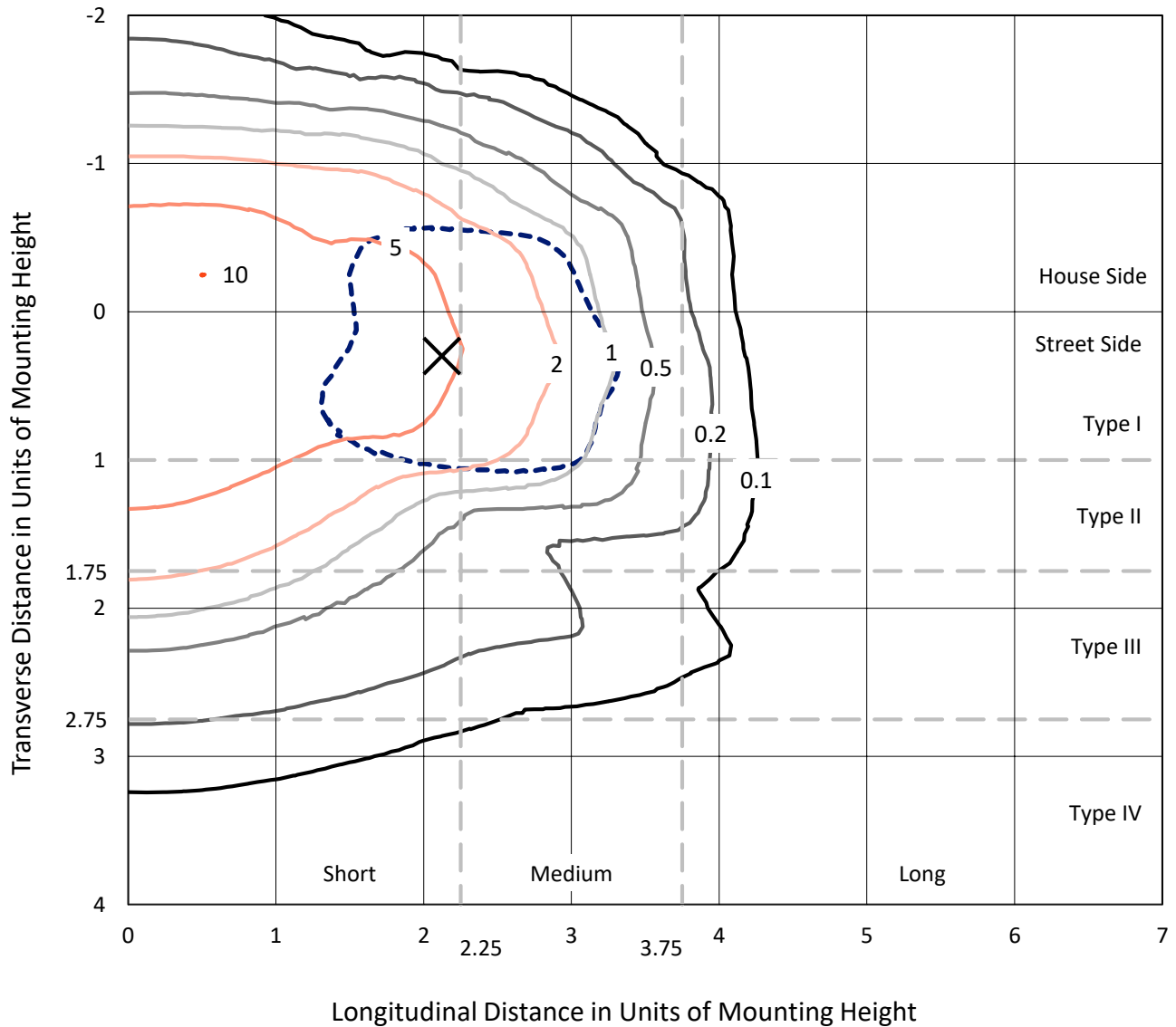
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P159199

CATALOG NUMBER: VTS-E03-LED-E1-T2-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

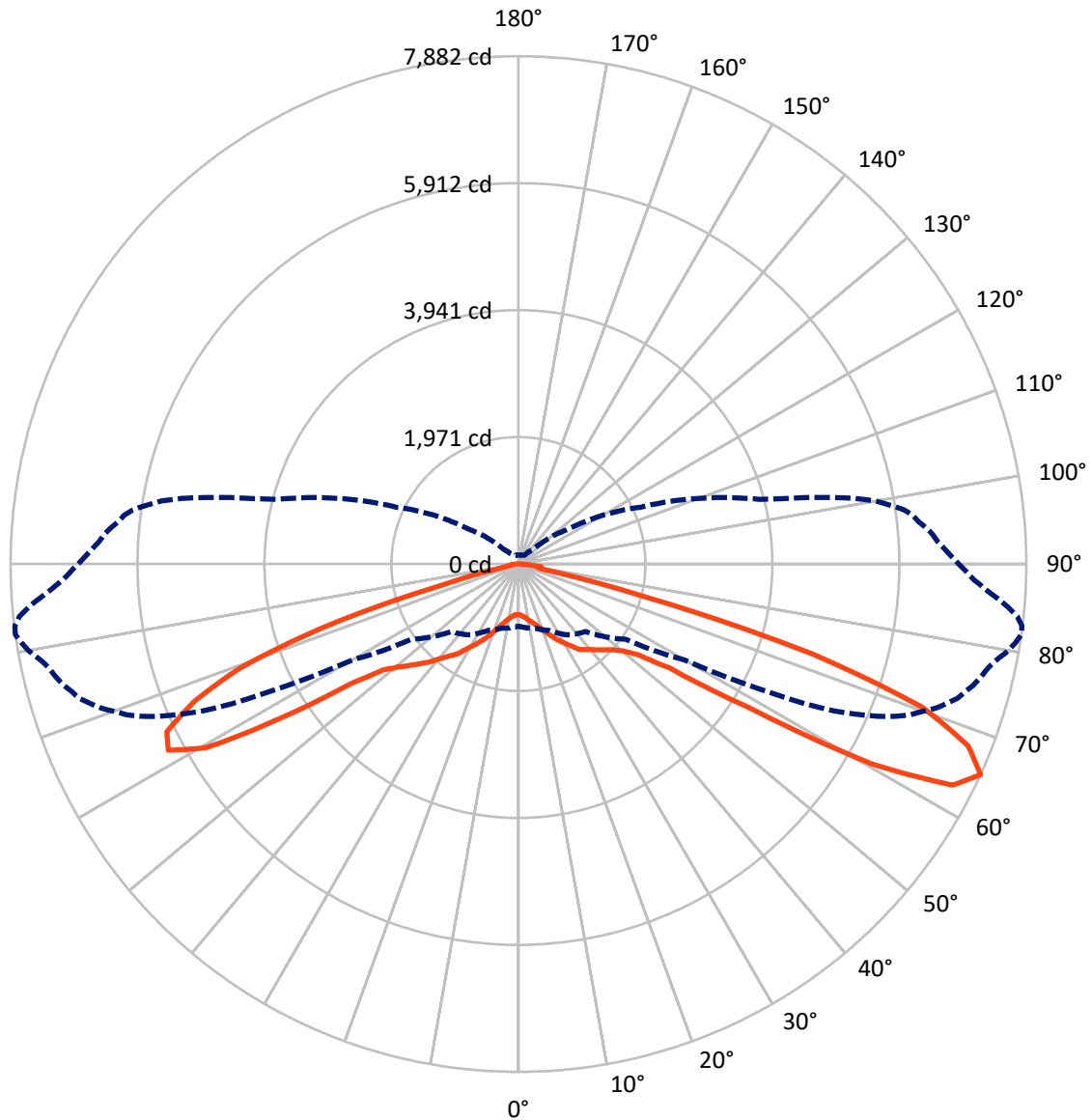


Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159199

CATALOG NUMBER: VTS-E03-LED-E1-T2-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P159199

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3149.1 | 0.0 | 3149.1 |
| | % Fixture | 37.2 | 0.0 | 37.2 |
| Street Side | Lumens | 5308.7 | 0.0 | 5308.7 |
| | % Fixture | 62.8 | 0.0 | 62.8 |
| Total | Lumens | 8457.8 | 0.0 | 8457.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.7 | 0.9 |
| 10°-20° | 279.9 | 3.3 |
| 20°-30° | 554.7 | 6.6 |
| 30°-40° | 950.8 | 11.2 |
| 40°-50° | 1428.4 | 16.9 |
| 50°-60° | 1984.5 | 23.5 |
| 60°-70° | 2264.0 | 26.8 |
| 70°-80° | 779.9 | 9.2 |
| 80°-90° | 135.9 | 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° | 8457.8 | 100.0 |
| 0°-180° | 8457.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P159199

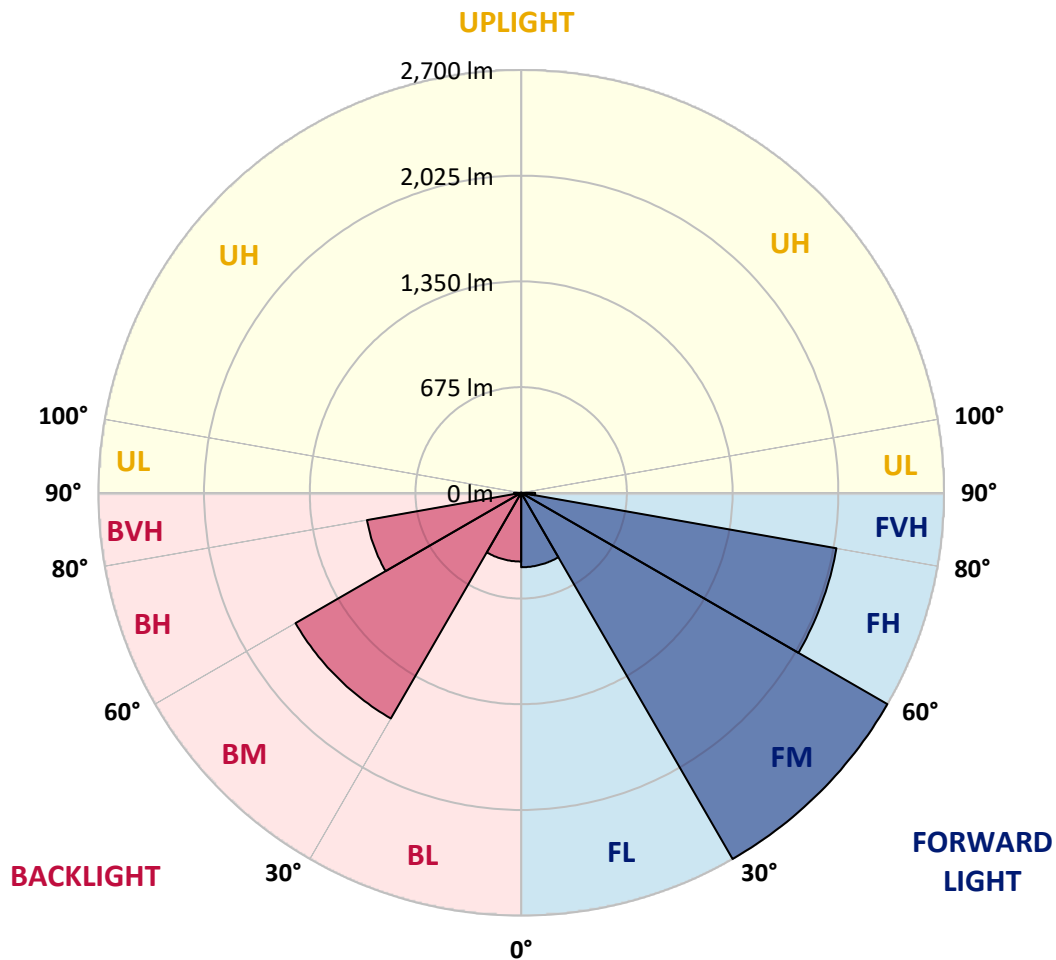
CATALOG NUMBER: VTS-E03-LED-E1-T2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 475.1 | 5.6 | | | |
| FM (30°-60°) | 2699.9 | 31.9 | | | |
| FH (60°-80°) | 2044.1 | 24.2 | | | G2/5000 |
| FVH (80°-90°) | 89.5 | 1.1 | | | G1/100 |
| BL (0°-30°) | 439.1 | 5.2 | B1/500 | | |
| BM (30°-60°) | 1663.8 | 19.7 | B2/2500 | | |
| BH (60°-80°) | 999.7 | 11.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 46.4 | 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 II Short





REPORT NUMBER: P159199

CATALOG NUMBER: VTS-E03-LED-E1-T2-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 |
| 2.5° | 829.7 | 830.2 | 829.7 | 828.0 | 827.5 | 822.6 | 817.1 | 814.3 | 813.8 | 811.6 | 812.2 |
| 5° | 881.2 | 879.6 | 877.4 | 874.6 | 871.9 | 863.7 | 854.3 | 849.4 | 847.8 | 846.1 | 843.9 |
| 7.5° | 927.2 | 928.3 | 927.2 | 923.4 | 916.3 | 905.9 | 893.8 | 886.1 | 885.6 | 883.9 | 882.3 |
| 10° | 986.4 | 989.2 | 982.6 | 976.0 | 966.1 | 950.2 | 936.5 | 926.7 | 925.0 | 922.8 | 921.8 |
| 12.5° | 1050.5 | 1051.1 | 1048.9 | 1034.1 | 1017.7 | 995.7 | 976.0 | 966.1 | 963.9 | 961.2 | 960.1 |
| 15° | 1119.0 | 1119.6 | 1107.5 | 1093.3 | 1068.1 | 1041.8 | 1014.4 | 1003.4 | 1000.7 | 1001.2 | 996.8 |
| 17.5° | 1173.3 | 1174.4 | 1162.9 | 1144.8 | 1114.7 | 1083.4 | 1053.8 | 1045.1 | 1043.4 | 1044.0 | 1041.8 |
| 20° | 1196.9 | 1198.5 | 1191.4 | 1177.7 | 1149.2 | 1121.8 | 1100.4 | 1094.9 | 1094.4 | 1093.3 | 1097.7 |
| 22.5° | 1195.8 | 1196.3 | 1193.6 | 1188.1 | 1171.1 | 1155.2 | 1152.5 | 1155.8 | 1155.2 | 1156.3 | 1160.1 |
| 25° | 1185.9 | 1187.5 | 1187.0 | 1189.2 | 1186.4 | 1192.5 | 1205.1 | 1216.6 | 1218.2 | 1220.4 | 1227.5 |
| 27.5° | 1211.1 | 1214.4 | 1210.6 | 1212.7 | 1217.1 | 1237.4 | 1263.2 | 1280.7 | 1284.0 | 1290.0 | 1296.0 |
| 30° | 1309.7 | 1305.4 | 1300.4 | 1294.9 | 1297.7 | 1310.3 | 1339.3 | 1354.7 | 1356.3 | 1360.7 | 1368.9 |
| 32.5° | 1456.1 | 1451.1 | 1446.7 | 1438.0 | 1435.8 | 1430.3 | 1440.2 | 1444.0 | 1443.5 | 1447.8 | 1450.0 |
| 35° | 1621.0 | 1621.6 | 1620.5 | 1627.0 | 1632.5 | 1604.6 | 1570.0 | 1560.7 | 1564.6 | 1559.6 | 1560.7 |
| 37.5° | 1761.9 | 1763.5 | 1792.5 | 1828.7 | 1839.1 | 1821.6 | 1746.0 | 1708.7 | 1696.1 | 1694.4 | 1681.8 |
| 40° | 1918.0 | 1918.0 | 1961.9 | 2006.3 | 2035.3 | 2057.2 | 1967.4 | 1901.6 | 1874.7 | 1867.1 | 1835.8 |
| 42.5° | 2089.6 | 2080.8 | 2120.8 | 2169.6 | 2223.3 | 2273.1 | 2226.6 | 2152.6 | 2114.2 | 2100.5 | 2045.7 |
| 45° | 2230.4 | 2224.9 | 2244.6 | 2290.1 | 2377.3 | 2474.8 | 2481.4 | 2443.6 | 2420.6 | 2392.1 | 2341.6 |
| 47.5° | 2317.0 | 2314.2 | 2325.8 | 2375.1 | 2484.1 | 2642.0 | 2730.2 | 2749.4 | 2735.7 | 2713.7 | 2665.0 |
| 50° | 2351.0 | 2347.1 | 2355.3 | 2410.1 | 2532.4 | 2740.6 | 2935.7 | 3026.1 | 3032.7 | 3037.6 | 3022.3 |
| 52.5° | 2338.9 | 2334.0 | 2351.0 | 2397.0 | 2524.1 | 2775.1 | 3096.3 | 3270.0 | 3299.0 | 3323.7 | 3374.1 |
| 55° | 2223.3 | 2215.6 | 2261.6 | 2348.2 | 2488.5 | 2762.5 | 3213.5 | 3504.5 | 3565.9 | 3631.7 | 3743.5 |
| 57.5° | 2046.3 | 2039.7 | 2106.0 | 2224.9 | 2425.5 | 2728.0 | 3292.4 | 3801.0 | 3939.1 | 4057.5 | 4374.8 |
| 60° | 1875.8 | 1870.4 | 1909.3 | 2024.3 | 2221.1 | 2559.8 | 3194.9 | 3900.7 | 4132.5 | 4387.9 | 4967.2 |
| 62.5° | 1571.1 | 1556.3 | 1608.4 | 1705.4 | 1829.8 | 2117.5 | 2769.1 | 3678.8 | 4036.1 | 4411.5 | 5196.8 |
| 65° | 965.6 | 987.0 | 1031.9 | 1139.3 | 1343.2 | 1480.2 | 2033.7 | 2976.2 | 3447.5 | 3918.3 | 4937.0 |
| 67.5° | 613.2 | 619.3 | 652.7 | 727.2 | 885.0 | 1022.6 | 1232.5 | 1867.6 | 2230.9 | 2694.0 | 3876.1 |
| 70° | 525.5 | 529.4 | 557.9 | 635.7 | 744.7 | 914.1 | 932.7 | 975.5 | 1105.9 | 1400.7 | 2278.6 |
| 72.5° | 414.3 | 420.9 | 443.3 | 510.7 | 642.3 | 824.2 | 1151.4 | 771.1 | 744.7 | 769.4 | 1111.9 |
| 75° | 246.6 | 254.3 | 272.9 | 309.6 | 412.7 | 630.2 | 1206.2 | 897.1 | 836.3 | 788.6 | 767.2 |
| 77.5° | 130.4 | 124.9 | 137.6 | 158.9 | 212.1 | 335.9 | 906.4 | 1099.3 | 1056.6 | 999.6 | 878.5 |
| 80° | 64.7 | 66.9 | 70.7 | 75.1 | 94.8 | 136.5 | 453.2 | 1137.1 | 1260.4 | 1315.2 | 1207.8 |
| 82.5° | 25.8 | 29.0 | 41.1 | 43.8 | 52.1 | 58.1 | 145.8 | 630.2 | 902.6 | 1224.3 | 1598.5 |
| 85° | 13.2 | 12.6 | 21.9 | 26.3 | 30.7 | 27.4 | 51.5 | 235.1 | 423.1 | 659.3 | 1068.1 |
| 87.5° | 1.6 | 2.2 | 4.9 | 6.6 | 9.3 | 8.8 | 14.8 | 51.0 | 81.1 | 115.1 | 161.7 |
| 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: P159199

CATALOG NUMBER: VTS-E03-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

| | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 |
| 2.5° | 809.4 | 808.9 | 808.9 | 806.7 | 806.7 | 807.2 | 805.6 | 804.5 | 804.5 | 805.0 | 802.8 |
| 5° | 842.3 | 840.6 | 840.6 | 838.5 | 835.7 | 835.7 | 833.5 | 833.0 | 831.9 | 829.7 | 828.0 |
| 7.5° | 880.7 | 879.0 | 876.3 | 874.6 | 873.5 | 871.9 | 869.1 | 868.0 | 865.9 | 863.7 | 861.5 |
| 10° | 920.1 | 917.9 | 916.8 | 914.1 | 913.0 | 909.7 | 908.1 | 908.6 | 904.2 | 902.6 | 903.1 |
| 12.5° | 959.6 | 957.4 | 953.5 | 952.4 | 951.9 | 948.6 | 947.0 | 945.9 | 942.6 | 942.0 | 940.4 |
| 15° | 994.6 | 995.7 | 994.1 | 991.4 | 989.2 | 988.6 | 987.0 | 985.9 | 983.7 | 981.5 | 979.3 |
| 17.5° | 1040.1 | 1041.8 | 1039.6 | 1035.7 | 1035.7 | 1035.2 | 1035.7 | 1035.2 | 1031.4 | 1033.0 | 1031.9 |
| 20° | 1098.2 | 1099.3 | 1093.8 | 1095.5 | 1096.6 | 1096.0 | 1097.7 | 1099.3 | 1098.2 | 1098.2 | 1099.9 |
| 22.5° | 1165.1 | 1166.7 | 1163.4 | 1165.6 | 1168.9 | 1166.2 | 1171.1 | 1170.5 | 1171.6 | 1173.3 | 1173.8 |
| 25° | 1233.6 | 1236.9 | 1234.1 | 1240.1 | 1238.0 | 1240.1 | 1246.2 | 1244.5 | 1247.3 | 1251.7 | 1253.3 |
| 27.5° | 1302.1 | 1304.3 | 1304.8 | 1308.6 | 1312.5 | 1315.8 | 1323.4 | 1323.4 | 1325.6 | 1333.3 | 1333.3 |
| 30° | 1373.9 | 1376.1 | 1378.2 | 1383.7 | 1385.9 | 1391.9 | 1399.6 | 1401.8 | 1400.7 | 1411.7 | 1415.0 |
| 32.5° | 1456.6 | 1458.8 | 1462.6 | 1469.2 | 1472.0 | 1478.0 | 1478.0 | 1484.0 | 1488.4 | 1497.7 | 1498.3 |
| 35° | 1566.8 | 1568.4 | 1566.8 | 1566.2 | 1570.0 | 1578.3 | 1578.8 | 1587.6 | 1591.4 | 1600.7 | 1603.5 |
| 37.5° | 1676.9 | 1676.4 | 1669.2 | 1661.6 | 1662.1 | 1658.8 | 1656.6 | 1660.5 | 1662.1 | 1662.7 | 1668.7 |
| 40° | 1825.4 | 1811.2 | 1800.2 | 1781.0 | 1772.3 | 1758.6 | 1750.3 | 1749.8 | 1741.0 | 1739.9 | 1741.6 |
| 42.5° | 2020.0 | 2003.5 | 1977.8 | 1945.4 | 1920.8 | 1895.6 | 1876.9 | 1866.0 | 1846.8 | 1836.9 | 1828.7 |
| 45° | 2291.8 | 2251.2 | 2220.5 | 2182.2 | 2134.5 | 2090.7 | 2044.6 | 2023.8 | 1987.1 | 1964.6 | 1939.4 |
| 47.5° | 2623.9 | 2583.9 | 2536.7 | 2497.3 | 2434.8 | 2374.0 | 2311.0 | 2255.6 | 2191.5 | 2140.5 | 2098.9 |
| 50° | 2984.5 | 2960.9 | 2926.9 | 2890.2 | 2809.6 | 2769.6 | 2690.2 | 2615.1 | 2546.1 | 2455.1 | 2375.6 |
| 52.5° | 3354.4 | 3368.1 | 3360.4 | 3347.2 | 3296.3 | 3280.9 | 3212.4 | 3120.9 | 3051.3 | 2988.8 | 2850.7 |
| 55° | 3810.3 | 3826.8 | 3859.6 | 3878.8 | 3872.8 | 3911.7 | 3894.7 | 3823.5 | 3795.5 | 3766.5 | 3668.4 |
| 57.5° | 4507.9 | 4625.2 | 4750.7 | 4860.9 | 4886.6 | 5024.7 | 4995.1 | 5066.4 | 5116.8 | 5080.6 | 5048.8 |
| 60° | 5251.6 | 5488.3 | 5701.5 | 5924.5 | 6105.9 | 6241.8 | 6421.6 | 6542.7 | 6618.9 | 6755.9 | 6766.8 |
| 62.5° | 5551.3 | 5873.0 | 6143.7 | 6402.4 | 6617.8 | 6806.3 | 6968.5 | 7135.6 | 7272.6 | 7396.5 | 7485.8 |
| 65° | 5386.9 | 5722.9 | 6051.1 | 6313.6 | 6520.8 | 6683.0 | 6859.4 | 6992.1 | 7126.9 | 7206.3 | 7300.0 |
| 67.5° | 4478.3 | 4923.3 | 5327.2 | 5623.1 | 5906.5 | 6071.4 | 6280.2 | 6410.6 | 6553.7 | 6637.5 | 6697.8 |
| 70° | 2919.8 | 3499.0 | 4050.9 | 4499.7 | 4882.2 | 5074.6 | 5326.7 | 5504.8 | 5676.8 | 5681.2 | 5781.5 |
| 72.5° | 1575.5 | 2060.0 | 2521.9 | 2980.6 | 3416.8 | 3672.8 | 3921.6 | 4138.0 | 4309.0 | 4236.1 | 4335.9 |
| 75° | 877.4 | 1104.2 | 1356.9 | 1632.5 | 1898.3 | 2044.6 | 2230.4 | 2231.5 | 2319.7 | 2181.1 | 2216.2 |
| 77.5° | 843.9 | 833.5 | 837.4 | 845.0 | 858.2 | 830.2 | 829.7 | 812.7 | 786.4 | 738.7 | 746.9 |
| 80° | 1108.6 | 976.0 | 880.7 | 731.0 | 588.6 | 480.1 | 449.9 | 457.0 | 478.4 | 521.2 | 575.4 |
| 82.5° | 1602.9 | 1491.1 | 1331.1 | 1095.5 | 859.8 | 663.1 | 544.7 | 483.3 | 480.6 | 523.3 | 605.6 |
| 85° | 1167.3 | 1234.7 | 1224.3 | 1022.0 | 842.8 | 684.5 | 498.1 | 420.9 | 348.5 | 331.5 | 360.6 |
| 87.5° | 172.1 | 142.5 | 160.6 | 134.3 | 97.5 | 75.6 | 66.3 | 53.2 | 51.0 | 52.1 | 57.0 |
| 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: P159199

CATALOG NUMBER: VTS-E03-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

| | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 |
| 2.5° | 803.4 | 801.2 | 799.0 | 800.6 | 799.0 | 798.5 | 796.8 | 795.7 | 795.2 | 795.2 | 795.2 |
| 5° | 828.0 | 825.3 | 823.7 | 823.1 | 821.5 | 819.8 | 819.3 | 816.5 | 816.0 | 816.0 | 814.3 |
| 7.5° | 861.5 | 859.3 | 856.5 | 854.9 | 853.8 | 851.1 | 848.3 | 847.8 | 847.2 | 845.0 | 843.4 |
| 10° | 900.4 | 897.1 | 893.8 | 893.8 | 891.6 | 891.1 | 888.3 | 884.5 | 883.9 | 880.7 | 879.6 |
| 12.5° | 937.1 | 936.0 | 932.2 | 931.1 | 929.4 | 927.8 | 926.1 | 924.5 | 922.8 | 920.1 | 921.2 |
| 15° | 980.9 | 978.2 | 974.9 | 975.5 | 974.9 | 972.7 | 970.5 | 968.9 | 967.8 | 966.7 | 966.7 |
| 17.5° | 1033.5 | 1032.5 | 1031.9 | 1029.2 | 1027.0 | 1028.6 | 1028.6 | 1028.6 | 1025.9 | 1026.4 | 1027.0 |
| 20° | 1100.4 | 1101.5 | 1100.4 | 1098.2 | 1097.7 | 1099.3 | 1095.5 | 1101.5 | 1098.2 | 1096.0 | 1097.1 |
| 22.5° | 1174.4 | 1178.2 | 1173.8 | 1174.4 | 1177.1 | 1178.2 | 1174.4 | 1179.3 | 1177.7 | 1174.4 | 1177.1 |
| 25° | 1254.9 | 1257.7 | 1255.5 | 1254.9 | 1256.6 | 1260.4 | 1259.9 | 1259.3 | 1263.2 | 1259.9 | 1261.5 |
| 27.5° | 1337.7 | 1339.3 | 1340.4 | 1342.1 | 1343.2 | 1342.6 | 1344.8 | 1344.8 | 1347.0 | 1343.2 | 1344.8 |
| 30° | 1419.9 | 1419.9 | 1422.1 | 1424.3 | 1424.3 | 1424.3 | 1428.7 | 1429.2 | 1425.9 | 1427.0 | 1423.2 |
| 32.5° | 1507.6 | 1508.1 | 1510.3 | 1510.3 | 1514.7 | 1515.2 | 1520.2 | 1513.6 | 1520.2 | 1514.7 | 1515.8 |
| 35° | 1610.6 | 1617.7 | 1618.8 | 1624.3 | 1628.7 | 1630.3 | 1630.3 | 1630.9 | 1636.9 | 1632.5 | 1634.2 |
| 37.5° | 1670.9 | 1672.5 | 1676.9 | 1679.7 | 1679.7 | 1681.8 | 1683.5 | 1681.8 | 1683.5 | 1682.9 | 1684.6 |
| 40° | 1742.1 | 1740.5 | 1745.4 | 1746.5 | 1744.3 | 1747.1 | 1746.5 | 1744.9 | 1749.2 | 1746.0 | 1748.2 |
| 42.5° | 1828.7 | 1819.4 | 1818.8 | 1823.2 | 1818.8 | 1821.0 | 1820.5 | 1816.7 | 1822.1 | 1823.8 | 1822.1 |
| 45° | 1921.3 | 1916.4 | 1906.5 | 1906.5 | 1902.1 | 1900.5 | 1901.0 | 1900.5 | 1901.0 | 1907.6 | 1909.8 |
| 47.5° | 2072.0 | 2041.9 | 2024.9 | 2009.0 | 1995.9 | 1995.3 | 1989.3 | 1992.6 | 1996.9 | 2007.9 | 2017.8 |
| 50° | 2324.7 | 2255.1 | 2212.3 | 2172.9 | 2144.4 | 2134.5 | 2123.0 | 2121.9 | 2125.7 | 2138.3 | 2155.3 |
| 52.5° | 2775.1 | 2678.7 | 2587.7 | 2503.3 | 2429.9 | 2373.4 | 2345.5 | 2330.7 | 2325.2 | 2337.8 | 2354.3 |
| 55° | 3599.3 | 3417.4 | 3289.2 | 3203.7 | 3021.2 | 2943.9 | 2844.7 | 2799.2 | 2754.8 | 2759.2 | 2787.2 |
| 57.5° | 5007.7 | 4909.6 | 4802.2 | 4652.6 | 4540.8 | 4406.0 | 4158.3 | 4020.2 | 4026.2 | 4058.6 | 3957.7 |
| 60° | 6853.4 | 6754.2 | 6709.8 | 6573.9 | 6496.1 | 6441.9 | 6310.3 | 6081.3 | 6000.2 | 5984.8 | 5799.6 |
| 62.5° | 7554.3 | 7577.9 | 7613.0 | 7651.3 | 7649.1 | 7672.7 | 7557.6 | 7483.1 | 7389.4 | 7267.7 | 7084.7 |
| 65° | 7371.3 | 7431.0 | 7502.3 | 7605.3 | 7722.6 | 7809.1 | 7882.0 | 7873.3 | 7785.6 | 7623.4 | 7429.9 |
| 67.5° | 6751.5 | 6810.7 | 6862.7 | 7000.8 | 7193.2 | 7369.1 | 7524.7 | 7630.5 | 7571.9 | 7437.6 | 7211.8 |
| 70° | 5819.9 | 5862.6 | 5895.5 | 6015.5 | 6226.5 | 6441.3 | 6644.6 | 6822.2 | 6804.1 | 6641.3 | 6461.0 |
| 72.5° | 4216.9 | 4320.5 | 4376.4 | 4368.2 | 4498.6 | 4739.2 | 4767.7 | 4919.5 | 4961.7 | 4786.3 | 4499.2 |
| 75° | 2054.5 | 2056.1 | 1991.5 | 1970.1 | 1976.7 | 2018.3 | 1938.9 | 1943.8 | 1916.4 | 1792.0 | 1689.5 |
| 77.5° | 717.9 | 698.2 | 651.0 | 595.1 | 515.1 | 440.1 | 363.9 | 331.0 | 320.0 | 287.7 | 265.2 |
| 80° | 618.7 | 647.7 | 638.4 | 592.4 | 508.0 | 405.0 | 302.5 | 224.1 | 191.3 | 179.7 | 168.8 |
| 82.5° | 702.5 | 814.3 | 885.6 | 881.7 | 766.1 | 575.4 | 358.9 | 206.1 | 146.9 | 128.8 | 118.4 |
| 85° | 391.8 | 421.4 | 429.6 | 391.3 | 325.0 | 221.9 | 123.9 | 87.1 | 74.0 | 67.4 | 60.8 |
| 87.5° | 62.5 | 57.0 | 55.9 | 48.8 | 46.0 | 42.2 | 37.3 | 35.1 | 32.3 | 30.7 | 30.7 |
| 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: P159199

CATALOG NUMBER: VTS-E03-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

| | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° | 95° | 96° | 97° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 |
| 2.5° | 794.6 | 794.1 | 792.4 | 790.8 | 789.7 | 789.1 | 788.6 | 787.5 | 786.9 | 786.4 | 785.3 |
| 5° | 813.2 | 812.2 | 809.4 | 806.7 | 805.6 | 803.9 | 802.3 | 801.2 | 800.1 | 799.5 | 797.4 |
| 7.5° | 842.3 | 841.2 | 837.9 | 835.7 | 835.2 | 830.8 | 830.2 | 828.6 | 825.9 | 825.3 | 822.0 |
| 10° | 877.4 | 876.8 | 874.1 | 872.4 | 871.3 | 869.1 | 865.9 | 863.1 | 860.4 | 860.4 | 858.2 |
| 12.5° | 917.9 | 915.7 | 917.4 | 913.5 | 912.4 | 910.2 | 908.6 | 908.1 | 904.8 | 902.0 | 901.5 |
| 15° | 965.6 | 962.9 | 962.9 | 961.8 | 960.7 | 958.5 | 957.9 | 958.5 | 955.2 | 956.3 | 953.0 |
| 17.5° | 1024.8 | 1025.9 | 1025.3 | 1025.3 | 1022.6 | 1022.6 | 1018.2 | 1023.7 | 1019.8 | 1022.6 | 1021.5 |
| 20° | 1098.8 | 1099.3 | 1098.2 | 1099.9 | 1101.0 | 1100.4 | 1099.9 | 1099.3 | 1101.0 | 1103.1 | 1101.5 |
| 22.5° | 1177.7 | 1177.7 | 1177.1 | 1183.2 | 1176.6 | 1181.5 | 1183.2 | 1179.9 | 1188.6 | 1187.5 | 1189.2 |
| 25° | 1263.2 | 1263.2 | 1267.5 | 1272.5 | 1273.6 | 1269.7 | 1271.9 | 1269.2 | 1274.7 | 1279.1 | 1280.2 |
| 27.5° | 1342.6 | 1349.7 | 1353.0 | 1349.7 | 1352.5 | 1358.5 | 1358.0 | 1358.0 | 1361.8 | 1360.7 | 1371.1 |
| 30° | 1424.3 | 1428.7 | 1433.0 | 1430.9 | 1432.0 | 1439.6 | 1440.2 | 1440.7 | 1445.7 | 1452.8 | 1460.4 |
| 32.5° | 1517.4 | 1521.8 | 1519.6 | 1526.8 | 1526.2 | 1535.5 | 1537.2 | 1538.8 | 1554.2 | 1551.4 | 1567.3 |
| 35° | 1632.0 | 1636.4 | 1634.2 | 1641.8 | 1640.7 | 1644.0 | 1650.1 | 1656.6 | 1659.4 | 1675.3 | 1687.9 |
| 37.5° | 1685.7 | 1685.7 | 1690.6 | 1699.4 | 1702.7 | 1708.1 | 1717.5 | 1725.7 | 1739.4 | 1756.4 | 1776.1 |
| 40° | 1750.3 | 1752.0 | 1758.6 | 1767.9 | 1773.9 | 1786.5 | 1803.5 | 1815.0 | 1835.8 | 1854.5 | 1877.5 |
| 42.5° | 1828.7 | 1835.8 | 1843.5 | 1856.1 | 1869.3 | 1889.0 | 1913.1 | 1927.9 | 1955.3 | 1979.4 | 2007.9 |
| 45° | 1920.2 | 1927.4 | 1945.4 | 1968.5 | 1987.6 | 2009.6 | 2029.3 | 2064.4 | 2089.0 | 2114.2 | 2138.9 |
| 47.5° | 2030.9 | 2051.8 | 2066.5 | 2093.9 | 2117.5 | 2146.6 | 2171.2 | 2204.1 | 2230.9 | 2261.6 | 2282.5 |
| 50° | 2172.9 | 2198.6 | 2217.8 | 2253.4 | 2276.4 | 2308.8 | 2340.0 | 2364.7 | 2392.1 | 2422.2 | 2439.2 |
| 52.5° | 2376.7 | 2403.0 | 2427.1 | 2471.5 | 2500.0 | 2521.9 | 2563.6 | 2594.3 | 2619.5 | 2641.4 | 2660.0 |
| 55° | 2818.4 | 2810.7 | 2877.6 | 2963.6 | 2973.5 | 3053.0 | 3067.8 | 3093.5 | 3140.1 | 3146.7 | 3198.7 |
| 57.5° | 4080.5 | 4041.0 | 4138.0 | 4264.1 | 4242.1 | 4202.1 | 4369.3 | 4379.7 | 4356.1 | 4419.2 | 4347.9 |
| 60° | 5827.0 | 5757.9 | 5784.2 | 5818.8 | 5768.9 | 5745.3 | 5753.6 | 5777.1 | 5754.1 | 5728.9 | 5659.8 |
| 62.5° | 6993.2 | 6886.8 | 6810.7 | 6746.6 | 6665.4 | 6606.8 | 6541.0 | 6459.9 | 6438.0 | 6346.0 | 6268.7 |
| 65° | 7242.0 | 7076.5 | 6955.9 | 6834.8 | 6723.0 | 6619.4 | 6520.2 | 6450.6 | 6358.6 | 6249.5 | 6169.0 |
| 67.5° | 6968.5 | 6763.5 | 6587.1 | 6411.2 | 6284.6 | 6132.2 | 6057.7 | 5944.3 | 5830.8 | 5705.9 | 5631.9 |
| 70° | 6173.9 | 5960.2 | 5738.2 | 5566.1 | 5394.1 | 5205.5 | 5168.8 | 5034.6 | 4969.4 | 4798.9 | 4769.3 |
| 72.5° | 4261.3 | 4118.8 | 4019.7 | 3807.0 | 3702.4 | 3605.9 | 3575.2 | 3450.8 | 3464.0 | 3277.1 | 3345.1 |
| 75° | 1515.2 | 1495.0 | 1465.9 | 1345.9 | 1324.5 | 1287.3 | 1277.4 | 1268.6 | 1357.4 | 1234.1 | 1323.4 |
| 77.5° | 260.3 | 258.7 | 243.9 | 236.7 | 250.4 | 241.7 | 243.9 | 239.5 | 265.2 | 269.1 | 263.0 |
| 80° | 161.7 | 157.3 | 152.3 | 149.1 | 149.6 | 146.3 | 146.9 | 148.0 | 149.6 | 149.1 | 150.7 |
| 82.5° | 110.7 | 106.9 | 104.7 | 102.5 | 105.8 | 106.9 | 109.6 | 112.3 | 116.7 | 119.5 | 122.8 |
| 85° | 60.3 | 55.3 | 55.3 | 54.8 | 59.2 | 62.5 | 66.9 | 72.3 | 80.0 | 86.6 | 93.7 |
| 87.5° | 30.7 | 29.6 | 30.1 | 31.2 | 35.1 | 37.8 | 43.3 | 48.2 | 54.8 | 61.9 | 68.5 |
| 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: P159199

CATALOG NUMBER: VTS-E03-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

| | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° | 115° | 125° | 135° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 |
| 2.5° | 784.8 | 784.8 | 784.2 | 784.2 | 783.7 | 783.1 | 782.6 | 780.9 | 774.9 | 769.4 | 765.6 |
| 5° | 796.8 | 795.2 | 794.6 | 793.0 | 792.4 | 791.3 | 789.7 | 788.0 | 777.1 | 767.2 | 760.1 |
| 7.5° | 821.5 | 819.3 | 818.2 | 816.5 | 814.9 | 812.7 | 810.5 | 808.9 | 795.7 | 784.2 | 775.4 |
| 10° | 853.8 | 852.7 | 852.2 | 850.0 | 850.0 | 846.7 | 846.1 | 842.3 | 828.0 | 817.6 | 810.0 |
| 12.5° | 898.7 | 896.5 | 896.0 | 893.3 | 894.4 | 893.3 | 892.2 | 890.0 | 879.6 | 867.5 | 857.1 |
| 15° | 954.6 | 954.6 | 951.9 | 949.7 | 950.2 | 949.2 | 951.3 | 948.6 | 942.0 | 931.1 | 914.1 |
| 17.5° | 1022.0 | 1020.9 | 1022.0 | 1020.4 | 1021.5 | 1022.6 | 1019.8 | 1020.4 | 1017.1 | 1003.4 | 978.2 |
| 20° | 1100.4 | 1098.8 | 1105.3 | 1102.6 | 1108.6 | 1103.1 | 1104.2 | 1105.9 | 1105.9 | 1087.8 | 1053.8 |
| 22.5° | 1190.3 | 1189.2 | 1189.2 | 1194.7 | 1196.9 | 1197.4 | 1199.6 | 1201.2 | 1205.6 | 1182.6 | 1128.4 |
| 25° | 1280.2 | 1284.0 | 1284.5 | 1291.7 | 1294.9 | 1294.9 | 1296.6 | 1302.6 | 1315.8 | 1284.0 | 1213.8 |
| 27.5° | 1371.7 | 1381.0 | 1383.2 | 1388.1 | 1393.0 | 1398.0 | 1401.8 | 1406.2 | 1427.6 | 1393.0 | 1301.5 |
| 30° | 1463.2 | 1473.6 | 1481.3 | 1486.8 | 1492.8 | 1504.8 | 1507.0 | 1515.8 | 1551.4 | 1509.2 | 1384.8 |
| 32.5° | 1570.6 | 1585.4 | 1595.3 | 1602.4 | 1611.7 | 1623.2 | 1629.8 | 1640.7 | 1675.3 | 1606.2 | 1445.7 |
| 35° | 1698.8 | 1707.6 | 1721.8 | 1733.9 | 1739.4 | 1759.1 | 1769.5 | 1772.3 | 1798.6 | 1690.1 | 1490.6 |
| 37.5° | 1787.6 | 1802.4 | 1827.1 | 1844.1 | 1853.9 | 1864.9 | 1882.4 | 1893.9 | 1919.1 | 1766.2 | 1513.1 |
| 40° | 1900.5 | 1923.0 | 1942.7 | 1967.9 | 1983.8 | 1992.0 | 2009.6 | 2018.9 | 2022.2 | 1831.5 | 1505.9 |
| 42.5° | 2038.0 | 2058.3 | 2084.6 | 2104.9 | 2117.0 | 2126.3 | 2140.5 | 2144.4 | 2101.6 | 1862.1 | 1467.6 |
| 45° | 2167.4 | 2198.6 | 2221.1 | 2235.9 | 2244.6 | 2249.6 | 2258.4 | 2258.9 | 2167.4 | 1846.8 | 1401.8 |
| 47.5° | 2306.6 | 2329.0 | 2349.9 | 2360.3 | 2359.2 | 2360.3 | 2357.0 | 2354.8 | 2200.3 | 1793.6 | 1317.4 |
| 50° | 2460.6 | 2475.4 | 2484.1 | 2489.1 | 2491.8 | 2481.4 | 2466.6 | 2456.7 | 2203.0 | 1718.0 | 1231.9 |
| 52.5° | 2667.2 | 2685.8 | 2684.2 | 2683.6 | 2661.7 | 2651.8 | 2612.4 | 2592.1 | 2187.1 | 1629.2 | 1135.5 |
| 55° | 3190.5 | 3172.4 | 3136.8 | 3154.3 | 3065.0 | 3018.4 | 2957.1 | 2900.1 | 2207.9 | 1544.8 | 1023.7 |
| 57.5° | 4376.4 | 4383.5 | 4282.2 | 4227.9 | 4077.2 | 3888.7 | 3736.9 | 3589.5 | 2395.4 | 1493.3 | 877.9 |
| 60° | 5613.8 | 5520.7 | 5391.9 | 5195.7 | 5001.7 | 4721.7 | 4451.5 | 4196.1 | 2582.2 | 1439.6 | 705.3 |
| 62.5° | 6154.2 | 6021.5 | 5827.0 | 5573.3 | 5268.6 | 4926.1 | 4589.6 | 4278.3 | 2491.8 | 1265.9 | 512.9 |
| 65° | 6044.6 | 5841.8 | 5627.0 | 5329.9 | 4959.5 | 4584.1 | 4191.2 | 3873.3 | 2084.6 | 944.2 | 316.2 |
| 67.5° | 5471.3 | 5299.3 | 5072.4 | 4720.0 | 4323.8 | 3933.1 | 3573.0 | 3216.8 | 1548.7 | 588.6 | 177.0 |
| 70° | 4618.1 | 4449.8 | 4219.7 | 3859.1 | 3463.4 | 3089.7 | 2708.3 | 2417.8 | 987.0 | 283.9 | 127.7 |
| 72.5° | 3203.7 | 3067.2 | 2904.5 | 2647.4 | 2300.5 | 1960.8 | 1702.7 | 1479.6 | 546.9 | 150.7 | 116.7 |
| 75° | 1301.0 | 1301.5 | 1271.9 | 1163.4 | 983.1 | 847.8 | 722.8 | 613.2 | 228.5 | 128.2 | 115.1 |
| 77.5° | 294.8 | 299.8 | 327.7 | 310.7 | 280.0 | 261.9 | 234.5 | 207.1 | 139.2 | 132.1 | 116.2 |
| 80° | 149.1 | 149.6 | 148.0 | 148.5 | 146.9 | 147.4 | 145.2 | 143.6 | 130.4 | 135.9 | 116.2 |
| 82.5° | 124.4 | 127.1 | 126.6 | 126.6 | 127.1 | 127.1 | 127.1 | 126.6 | 135.4 | 143.0 | 112.3 |
| 85° | 98.6 | 104.1 | 108.5 | 112.9 | 117.8 | 121.1 | 122.8 | 124.4 | 131.5 | 140.8 | 101.9 |
| 87.5° | 74.5 | 81.1 | 86.6 | 91.0 | 98.6 | 98.6 | 104.1 | 108.0 | 108.0 | 110.2 | 53.7 |
| 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: P159199

CATALOG NUMBER: VTS-E03-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

| | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|
| 0° | 786.9 | 786.9 | 786.9 | 786.9 | 786.9 |
| 2.5° | 760.1 | 757.9 | 755.7 | 754.6 | 752.4 |
| 5° | 754.6 | 750.2 | 747.5 | 747.5 | 745.3 |
| 7.5° | 770.5 | 768.9 | 765.0 | 762.8 | 765.0 |
| 10° | 804.5 | 801.7 | 797.4 | 794.1 | 795.7 |
| 12.5° | 850.0 | 839.0 | 830.2 | 826.4 | 823.7 |
| 15° | 897.1 | 875.2 | 857.6 | 847.8 | 845.0 |
| 17.5° | 947.5 | 909.1 | 882.8 | 868.0 | 865.3 |
| 20° | 999.0 | 951.3 | 914.1 | 894.9 | 894.4 |
| 22.5° | 1060.9 | 997.4 | 949.7 | 924.5 | 922.8 |
| 25° | 1126.2 | 1038.5 | 975.5 | 943.1 | 939.8 |
| 27.5° | 1182.6 | 1071.4 | 991.4 | 953.0 | 949.7 |
| 30° | 1229.7 | 1096.0 | 1004.5 | 960.1 | 955.7 |
| 32.5° | 1263.7 | 1110.3 | 1010.0 | 962.3 | 957.4 |
| 35° | 1274.7 | 1104.8 | 994.6 | 942.6 | 937.1 |
| 37.5° | 1259.9 | 1069.2 | 951.9 | 894.4 | 887.8 |
| 40° | 1215.5 | 1006.7 | 882.3 | 823.1 | 814.9 |
| 42.5° | 1147.5 | 930.0 | 798.5 | 742.0 | 731.6 |
| 45° | 1063.7 | 843.4 | 715.2 | 652.1 | 647.2 |
| 47.5° | 976.0 | 752.4 | 621.4 | 564.5 | 558.4 |
| 50° | 881.2 | 647.2 | 529.9 | 468.0 | 468.0 |
| 52.5° | 768.3 | 544.7 | 423.6 | 377.0 | 373.2 |
| 55° | 638.4 | 429.1 | 337.6 | 302.0 | 297.0 |
| 57.5° | 498.7 | 329.9 | 269.6 | 248.8 | 243.3 |
| 60° | 366.6 | 247.7 | 217.0 | 205.5 | 203.3 |
| 62.5° | 248.8 | 188.5 | 174.8 | 169.9 | 169.3 |
| 65° | 168.2 | 146.9 | 143.0 | 141.4 | 141.9 |
| 67.5° | 129.3 | 122.2 | 120.6 | 120.0 | 120.0 |
| 70° | 112.3 | 108.0 | 106.3 | 106.9 | 106.3 |
| 72.5° | 105.8 | 99.7 | 100.3 | 101.4 | 100.8 |
| 75° | 103.6 | 95.9 | 98.1 | 98.6 | 96.4 |
| 77.5° | 101.9 | 91.5 | 97.0 | 98.6 | 92.6 |
| 80° | 98.6 | 87.7 | 100.8 | 101.4 | 91.0 |
| 82.5° | 90.4 | 77.8 | 100.8 | 93.2 | 82.2 |
| 85° | 76.7 | 59.2 | 114.0 | 81.1 | 60.8 |
| 87.5° | 48.8 | 35.1 | 77.3 | 55.3 | 36.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)