

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: P158327

Luminaire Tested: **VTS-F03-LED-E1-SL3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F03-LED-E1-SL3-7060
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (21) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7666.5 lumens
Efficiency: N/A
Efficacy: 97.9 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

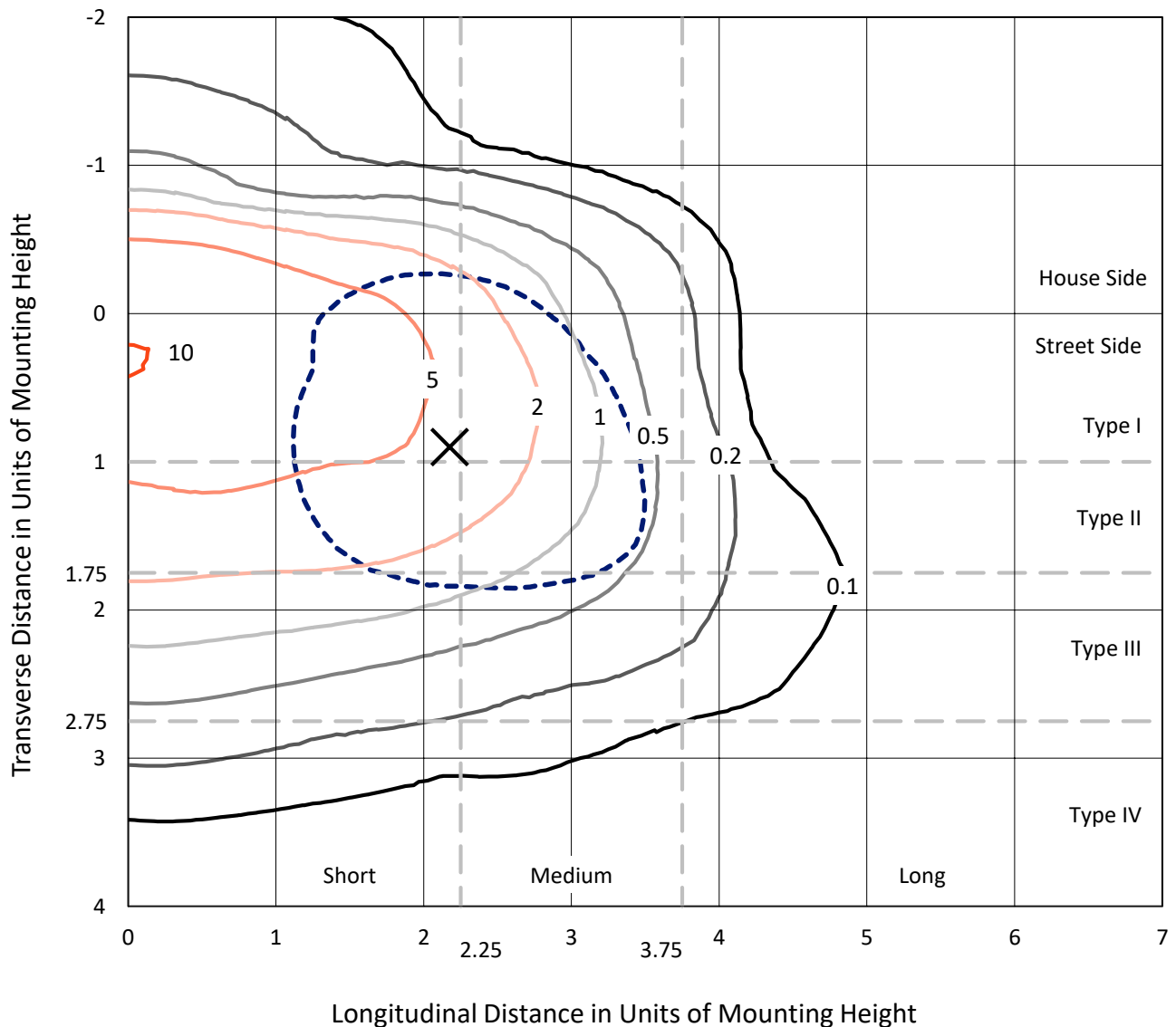
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

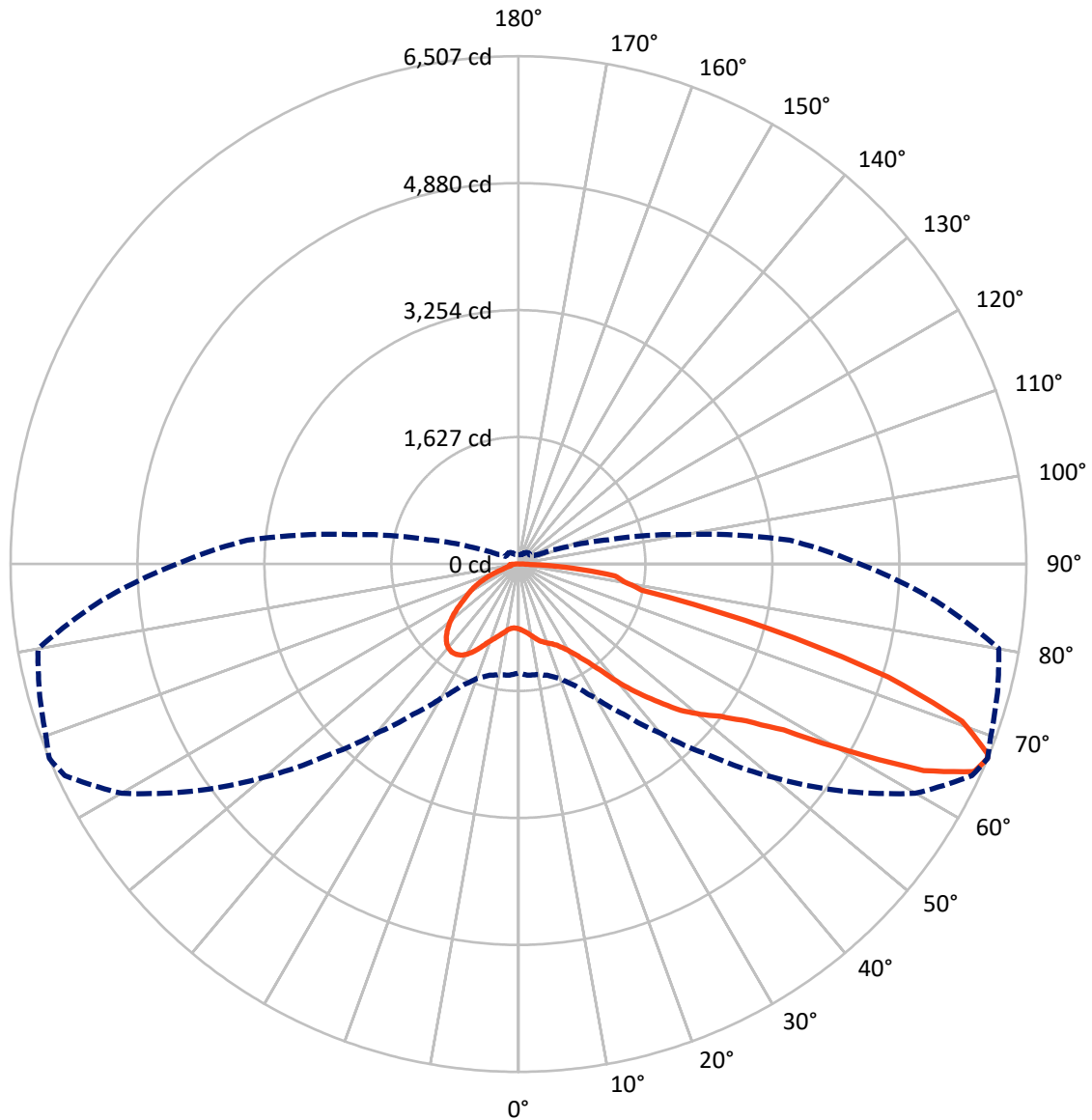


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1839.2 | 0.0 | 1839.2 |
| | % Fixture | 24.0 | 0.0 | 24.0 |
| Street Side | Lumens | 5827.3 | 0.0 | 5827.3 |
| | % Fixture | 76.0 | 0.0 | 76.0 |
| Total | Lumens | 7666.5 | 0.0 | 7666.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.6 | 1.1 |
| 10°-20° | 281.4 | 3.7 |
| 20°-30° | 502.4 | 6.6 |
| 30°-40° | 736.2 | 9.6 |
| 40°-50° | 1137.6 | 14.8 |
| 50°-60° | 1656.5 | 21.6 |
| 60°-70° | 2157.9 | 28.1 |
| 70°-80° | 965.9 | 12.6 |
| 80°-90° | 146.1 | 1.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 7666.5 | 100.0 |
| 0°-180° | 7666.5 | 100.0 |



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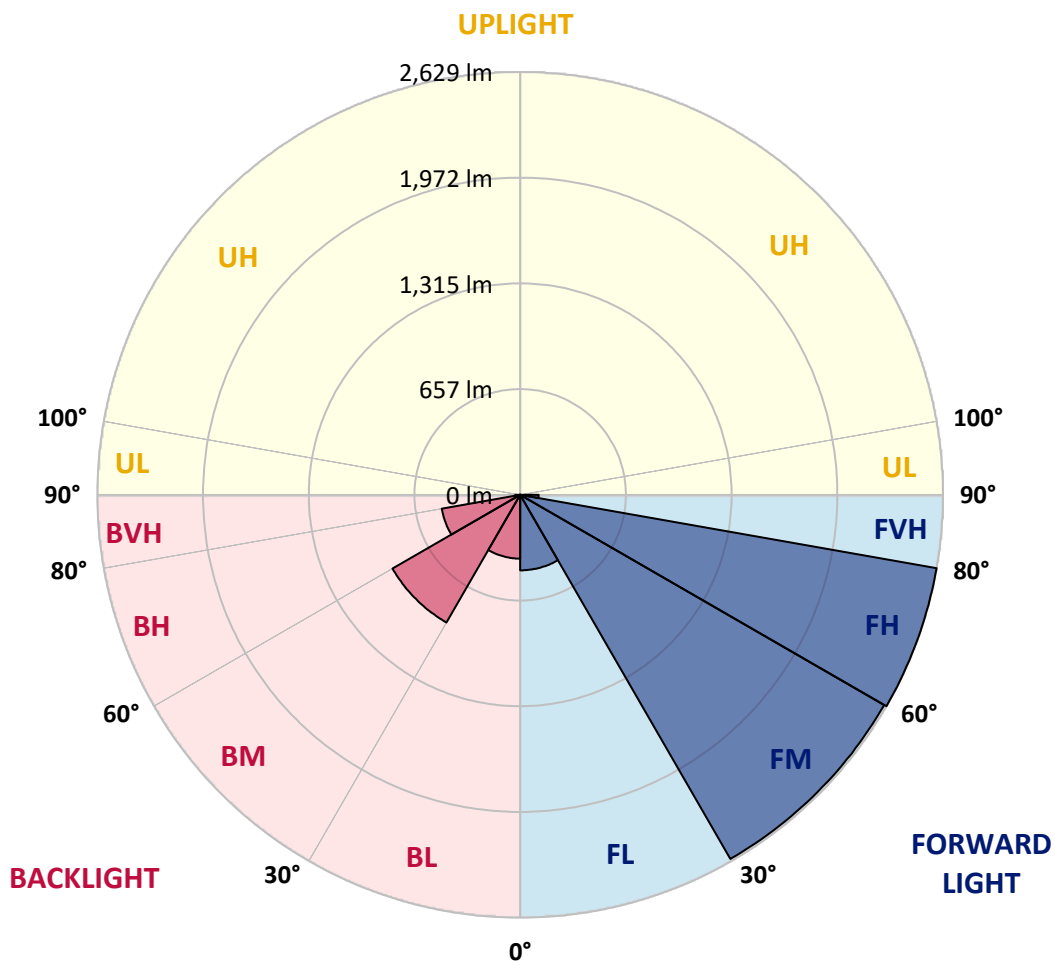
CATALOG NUMBER: VTS-F03-LED-E1-SL3-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 469.7 | 6.1 | | | |
| FM | (30°-60°) | 2613.9 | 34.1 | | | |
| FH | (60°-80°) | 2629.0 | 34.3 | | | G2/5000 |
| FVH | (80°-90°) | 114.7 | 1.5 | | | G2/225 |
| BL | (0°-30°) | 396.6 | 5.2 | B1/500 | | |
| BM | (30°-60°) | 916.4 | 12.0 | B1/1000 | | |
| BH | (60°-80°) | 494.8 | 6.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 31.4 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 |
| 2.5° | 863.5 | 865.5 | 866.1 | 865.5 | 866.1 | 864.0 | 863.5 | 860.5 | 862.0 | 857.9 | 856.9 |
| 5° | 910.3 | 911.8 | 912.8 | 908.7 | 909.8 | 907.7 | 905.2 | 902.1 | 898.1 | 892.5 | 888.9 |
| 7.5° | 956.0 | 958.6 | 958.0 | 956.5 | 953.0 | 950.9 | 945.8 | 941.3 | 934.2 | 927.5 | 923.0 |
| 10° | 1017.5 | 1017.0 | 1017.0 | 1008.4 | 1003.3 | 998.7 | 989.6 | 982.4 | 975.3 | 965.7 | 960.6 |
| 12.5° | 1088.7 | 1085.1 | 1083.6 | 1077.5 | 1066.8 | 1058.7 | 1045.5 | 1031.7 | 1019.0 | 1008.9 | 1000.7 |
| 15° | 1157.3 | 1157.3 | 1153.2 | 1143.6 | 1133.4 | 1122.7 | 1103.9 | 1084.1 | 1063.2 | 1047.0 | 1038.9 |
| 17.5° | 1219.8 | 1214.2 | 1210.6 | 1197.9 | 1187.3 | 1170.0 | 1149.1 | 1127.8 | 1101.9 | 1079.0 | 1063.2 |
| 20° | 1265.5 | 1261.0 | 1253.3 | 1237.6 | 1219.3 | 1199.0 | 1174.6 | 1149.7 | 1121.7 | 1096.8 | 1079.0 |
| 22.5° | 1292.0 | 1286.4 | 1274.7 | 1253.8 | 1228.9 | 1200.5 | 1172.0 | 1148.6 | 1123.2 | 1104.4 | 1089.7 |
| 25° | 1305.7 | 1300.1 | 1284.3 | 1256.9 | 1223.3 | 1185.7 | 1153.2 | 1130.3 | 1115.6 | 1111.0 | 1109.0 |
| 27.5° | 1305.2 | 1300.6 | 1283.8 | 1252.3 | 1209.1 | 1165.9 | 1130.8 | 1111.5 | 1110.0 | 1127.8 | 1141.0 |
| 30° | 1292.0 | 1288.9 | 1273.7 | 1242.2 | 1196.9 | 1151.7 | 1119.2 | 1109.0 | 1124.7 | 1162.4 | 1194.9 |
| 32.5° | 1278.7 | 1277.2 | 1266.5 | 1238.1 | 1199.5 | 1161.3 | 1139.0 | 1140.0 | 1172.5 | 1230.5 | 1282.8 |
| 35° | 1280.3 | 1282.3 | 1280.8 | 1265.5 | 1241.1 | 1221.3 | 1210.6 | 1233.0 | 1283.8 | 1354.0 | 1424.1 |
| 37.5° | 1293.5 | 1301.1 | 1310.8 | 1312.3 | 1312.8 | 1309.7 | 1332.1 | 1379.4 | 1453.6 | 1545.1 | 1654.8 |
| 40° | 1322.5 | 1331.1 | 1359.0 | 1383.4 | 1415.0 | 1452.6 | 1497.8 | 1563.4 | 1655.4 | 1768.2 | 1902.9 |
| 42.5° | 1412.4 | 1424.6 | 1459.2 | 1504.4 | 1562.3 | 1621.3 | 1688.9 | 1778.4 | 1891.2 | 2010.1 | 2151.4 |
| 45° | 1529.8 | 1555.2 | 1593.3 | 1643.7 | 1730.6 | 1813.4 | 1900.8 | 2001.0 | 2120.9 | 2269.8 | 2412.1 |
| 47.5° | 1676.2 | 1701.6 | 1757.0 | 1810.9 | 1913.5 | 2016.7 | 2112.3 | 2217.0 | 2347.1 | 2499.6 | 2657.1 |
| 50° | 1804.3 | 1833.2 | 1882.5 | 1955.2 | 2074.1 | 2200.7 | 2306.4 | 2419.8 | 2529.0 | 2689.6 | 2848.7 |
| 52.5° | 1904.9 | 1925.7 | 1973.0 | 2039.6 | 2172.2 | 2311.0 | 2444.7 | 2570.7 | 2700.3 | 2860.9 | 3008.3 |
| 55° | 1917.6 | 1936.9 | 1983.2 | 2059.4 | 2194.1 | 2348.1 | 2502.1 | 2651.5 | 2835.0 | 3010.3 | 3205.5 |
| 57.5° | 1862.7 | 1878.5 | 1925.2 | 1993.3 | 2124.5 | 2299.8 | 2494.5 | 2686.1 | 2920.9 | 3157.7 | 3396.1 |
| 60° | 1785.0 | 1800.7 | 1837.3 | 1891.7 | 2010.1 | 2199.2 | 2426.4 | 2688.6 | 3000.7 | 3342.7 | 3693.4 |
| 62.5° | 1699.6 | 1713.3 | 1742.8 | 1781.4 | 1885.6 | 2059.9 | 2320.1 | 2671.8 | 3065.7 | 3526.7 | 4067.5 |
| 65° | 1555.7 | 1588.8 | 1601.5 | 1641.1 | 1745.3 | 1910.0 | 2174.8 | 2558.5 | 3039.3 | 3608.5 | 4302.3 |
| 67° | 1396.7 | 1430.2 | 1436.8 | 1477.0 | 1560.3 | 1718.4 | 1987.7 | 2348.6 | 2829.9 | 3467.2 | 4250.5 |
| 67.5° | 1345.8 | 1374.3 | 1384.5 | 1424.6 | 1503.4 | 1652.3 | 1908.0 | 2272.9 | 2765.9 | 3390.0 | 4187.9 |
| 70° | 989.6 | 1021.1 | 1032.2 | 1049.0 | 1105.4 | 1229.4 | 1398.7 | 1715.3 | 2205.3 | 2766.4 | 3532.8 |
| 72.5° | 529.6 | 555.0 | 565.7 | 590.6 | 619.6 | 687.1 | 816.8 | 1043.9 | 1353.5 | 1851.0 | 2513.3 |
| 75° | 358.3 | 368.5 | 376.1 | 393.4 | 423.4 | 477.2 | 534.2 | 614.0 | 801.0 | 1044.4 | 1430.2 |
| 77.5° | 204.3 | 208.9 | 209.9 | 213.0 | 236.8 | 288.2 | 381.7 | 516.9 | 662.8 | 756.8 | 914.8 |
| 80° | 88.4 | 97.6 | 104.7 | 100.1 | 98.6 | 109.3 | 136.7 | 203.8 | 399.5 | 634.3 | 752.7 |
| 82.5° | 47.8 | 51.8 | 57.9 | 58.4 | 61.5 | 65.1 | 70.6 | 83.9 | 117.9 | 237.9 | 518.9 |
| 85° | 24.9 | 25.9 | 34.6 | 39.6 | 42.2 | 44.2 | 45.2 | 50.3 | 57.9 | 73.7 | 129.1 |
| 87.5° | 3.6 | 5.1 | 6.1 | 8.1 | 9.1 | 9.7 | 11.2 | 14.2 | 16.8 | 20.3 | 34.6 |
| 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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CATALOG NUMBER: VTS-F03-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 |
| 2.5° | 852.3 | 851.3 | 848.3 | 846.2 | 844.2 | 842.2 | 839.6 | 837.6 | 834.0 | 831.5 | 828.4 |
| 5° | 883.8 | 877.7 | 873.7 | 868.1 | 867.1 | 860.5 | 853.9 | 850.8 | 844.7 | 839.6 | 833.5 |
| 7.5° | 915.9 | 908.7 | 902.1 | 897.6 | 895.0 | 885.9 | 879.3 | 871.6 | 864.5 | 857.9 | 850.8 |
| 10° | 953.5 | 946.4 | 939.2 | 936.2 | 931.6 | 923.0 | 917.4 | 907.7 | 900.6 | 892.5 | 882.8 |
| 12.5° | 992.6 | 987.5 | 982.4 | 978.4 | 976.3 | 972.3 | 964.1 | 956.0 | 946.4 | 938.2 | 927.0 |
| 15° | 1027.2 | 1023.6 | 1021.6 | 1020.6 | 1020.6 | 1018.0 | 1010.4 | 1002.8 | 992.6 | 983.5 | 971.3 |
| 17.5° | 1051.6 | 1050.0 | 1051.6 | 1053.1 | 1055.1 | 1053.1 | 1051.6 | 1042.9 | 1036.3 | 1025.1 | 1012.9 |
| 20° | 1065.8 | 1068.8 | 1076.5 | 1081.5 | 1086.1 | 1089.7 | 1091.2 | 1084.1 | 1075.4 | 1067.3 | 1059.2 |
| 22.5° | 1081.0 | 1089.7 | 1102.9 | 1110.5 | 1118.1 | 1130.8 | 1133.9 | 1128.8 | 1122.2 | 1117.1 | 1108.5 |
| 25° | 1106.5 | 1119.2 | 1142.0 | 1154.2 | 1164.9 | 1183.7 | 1186.2 | 1187.3 | 1185.7 | 1181.7 | 1171.0 |
| 27.5° | 1146.1 | 1171.0 | 1201.5 | 1217.2 | 1228.9 | 1253.3 | 1263.0 | 1263.0 | 1258.9 | 1263.5 | 1263.5 |
| 30° | 1215.2 | 1248.3 | 1287.9 | 1297.0 | 1315.3 | 1336.7 | 1352.4 | 1354.5 | 1355.0 | 1364.6 | 1378.9 |
| 32.5° | 1321.4 | 1352.9 | 1397.2 | 1407.3 | 1423.1 | 1443.4 | 1461.2 | 1459.2 | 1463.7 | 1484.6 | 1503.4 |
| 35° | 1475.9 | 1508.0 | 1536.9 | 1550.7 | 1557.8 | 1576.1 | 1582.7 | 1593.9 | 1607.6 | 1633.5 | 1631.0 |
| 37.5° | 1704.7 | 1733.1 | 1737.2 | 1745.8 | 1737.2 | 1740.7 | 1745.8 | 1759.0 | 1795.6 | 1819.0 | 1781.4 |
| 40° | 1980.1 | 2027.4 | 2022.8 | 2012.7 | 1993.3 | 1967.4 | 1976.6 | 1996.9 | 2036.5 | 2016.2 | 1915.1 |
| 42.5° | 2239.8 | 2288.6 | 2279.5 | 2267.8 | 2225.1 | 2215.4 | 2214.4 | 2231.2 | 2252.5 | 2194.6 | 2019.8 |
| 45° | 2495.5 | 2545.3 | 2529.5 | 2522.9 | 2494.5 | 2473.6 | 2490.9 | 2491.9 | 2486.3 | 2362.3 | 2111.3 |
| 47.5° | 2759.3 | 2805.0 | 2794.8 | 2800.4 | 2771.0 | 2757.2 | 2758.8 | 2751.6 | 2699.3 | 2504.6 | 2182.4 |
| 50° | 2972.2 | 3033.7 | 3039.8 | 3027.1 | 3011.4 | 2990.5 | 3043.9 | 3024.6 | 2908.2 | 2642.9 | 2251.0 |
| 52.5° | 3137.9 | 3220.8 | 3252.3 | 3244.1 | 3231.4 | 3234.0 | 3334.1 | 3355.9 | 3163.3 | 2817.2 | 2326.7 |
| 55° | 3334.1 | 3464.7 | 3516.0 | 3546.5 | 3533.3 | 3584.1 | 3813.4 | 3824.5 | 3518.1 | 3044.9 | 2425.3 |
| 57.5° | 3617.2 | 3804.2 | 3966.3 | 4009.5 | 4051.2 | 4216.4 | 4588.4 | 4475.1 | 3978.5 | 3389.5 | 2550.4 |
| 60° | 4047.7 | 4457.3 | 4720.6 | 4858.8 | 4956.4 | 5187.2 | 5540.9 | 5253.7 | 4552.4 | 3799.6 | 2707.4 |
| 62.5° | 4650.4 | 5249.2 | 5689.3 | 5828.0 | 5868.2 | 6000.9 | 6257.0 | 5707.6 | 4864.9 | 3983.6 | 2721.1 |
| 65° | 5099.2 | 5817.4 | 6344.4 | 6415.6 | 6367.8 | 6370.3 | 6437.4 | 5683.7 | 4748.5 | 3823.0 | 2485.3 |
| 67° | 5069.7 | 5873.8 | 6413.5 | 6507.1 | 6441.0 | 6354.1 | 6249.4 | 5360.0 | 4374.5 | 3486.6 | 2176.3 |
| 67.5° | 5024.5 | 5819.4 | 6383.6 | 6482.2 | 6421.7 | 6322.6 | 6169.6 | 5234.4 | 4258.1 | 3381.9 | 2113.3 |
| 70° | 4343.5 | 5132.8 | 5892.6 | 6031.3 | 6056.8 | 5966.3 | 5536.8 | 4413.6 | 3457.1 | 2751.1 | 1641.1 |
| 72.5° | 3380.8 | 4083.8 | 4835.4 | 4955.9 | 5053.5 | 4792.8 | 4029.9 | 3048.5 | 2519.9 | 1982.7 | 1188.3 |
| 75° | 2232.2 | 2947.3 | 3326.5 | 3344.3 | 3219.7 | 2736.9 | 1968.9 | 1526.8 | 1405.3 | 1165.4 | 735.4 |
| 77.5° | 1194.4 | 1733.1 | 1743.8 | 1614.7 | 1555.7 | 1159.8 | 470.6 | 259.7 | 289.2 | 328.3 | 292.7 |
| 80° | 891.0 | 1103.9 | 1279.3 | 1375.3 | 1403.8 | 994.6 | 243.4 | 137.7 | 120.5 | 109.8 | 108.3 |
| 82.5° | 803.5 | 1066.3 | 1195.4 | 1247.7 | 1234.5 | 818.3 | 136.7 | 92.5 | 76.7 | 83.4 | 95.0 |
| 85° | 315.1 | 569.2 | 748.6 | 724.8 | 608.9 | 304.9 | 74.7 | 49.8 | 49.8 | 72.2 | 93.5 |
| 87.5° | 64.5 | 116.9 | 158.6 | 151.5 | 136.2 | 59.0 | 36.6 | 30.0 | 30.5 | 58.4 | 88.4 |
| 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-F03-LED-E1-SL3-7060

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0° | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 |
| 2.5° | 825.4 | 822.3 | 820.3 | 818.3 | 816.2 | 815.2 | 813.7 | 813.7 | 810.7 | 809.6 | 808.6 |
| 5° | 828.9 | 823.9 | 820.3 | 815.7 | 812.2 | 809.1 | 805.1 | 804.0 | 800.5 | 797.9 | 796.9 |
| 7.5° | 844.2 | 836.6 | 828.9 | 823.4 | 818.3 | 811.7 | 807.1 | 803.0 | 799.5 | 796.9 | 793.9 |
| 10° | 873.2 | 865.0 | 854.4 | 844.2 | 837.6 | 827.4 | 820.3 | 813.2 | 809.1 | 806.1 | 802.0 |
| 12.5° | 915.9 | 904.2 | 891.5 | 879.3 | 868.1 | 854.9 | 847.8 | 839.1 | 834.0 | 831.5 | 828.4 |
| 15° | 959.6 | 946.9 | 931.1 | 919.4 | 906.7 | 896.5 | 889.9 | 882.3 | 878.2 | 875.2 | 873.2 |
| 17.5° | 1004.3 | 989.6 | 978.4 | 966.7 | 960.6 | 953.0 | 944.3 | 934.7 | 923.0 | 915.9 | 906.2 |
| 20° | 1050.0 | 1038.9 | 1032.2 | 1025.6 | 1018.5 | 1007.9 | 990.6 | 970.7 | 948.9 | 928.1 | 908.2 |
| 22.5° | 1103.4 | 1096.8 | 1095.8 | 1089.7 | 1074.9 | 1049.5 | 1017.5 | 980.4 | 943.3 | 908.7 | 881.8 |
| 25° | 1178.6 | 1178.6 | 1173.5 | 1148.6 | 1114.1 | 1068.3 | 1014.5 | 961.1 | 911.8 | 864.5 | 828.9 |
| 27.5° | 1273.2 | 1269.6 | 1244.7 | 1193.4 | 1131.4 | 1060.2 | 988.0 | 920.4 | 857.4 | 805.6 | 759.8 |
| 30° | 1377.3 | 1352.4 | 1299.1 | 1218.3 | 1125.3 | 1033.8 | 945.3 | 867.1 | 792.9 | 729.3 | 675.5 |
| 32.5° | 1485.6 | 1425.1 | 1329.1 | 1218.3 | 1103.9 | 994.1 | 892.0 | 795.9 | 711.0 | 639.9 | 575.8 |
| 35° | 1583.7 | 1473.4 | 1336.2 | 1198.4 | 1062.2 | 935.7 | 817.3 | 708.5 | 606.8 | 530.1 | 460.0 |
| 37.5° | 1672.6 | 1505.4 | 1328.6 | 1159.8 | 1001.8 | 853.3 | 714.6 | 594.6 | 479.8 | 405.6 | 345.6 |
| 40° | 1730.6 | 1512.0 | 1297.0 | 1099.3 | 915.3 | 742.0 | 588.5 | 454.4 | 363.4 | 295.8 | 255.6 |
| 42.5° | 1766.7 | 1499.3 | 1246.2 | 1016.5 | 799.0 | 602.3 | 441.7 | 325.8 | 258.2 | 220.6 | 205.3 |
| 45° | 1787.0 | 1466.3 | 1171.0 | 903.2 | 658.2 | 457.9 | 313.6 | 235.3 | 198.7 | 185.5 | 180.4 |
| 47.5° | 1786.0 | 1412.9 | 1077.0 | 772.0 | 502.7 | 319.2 | 222.1 | 183.5 | 173.3 | 169.2 | 168.2 |
| 50° | 1775.3 | 1347.4 | 966.7 | 629.7 | 362.9 | 222.6 | 175.9 | 164.7 | 162.1 | 159.6 | 158.6 |
| 52.5° | 1760.6 | 1266.0 | 844.7 | 491.0 | 257.7 | 177.9 | 159.6 | 156.5 | 154.5 | 152.0 | 150.9 |
| 55° | 1733.1 | 1165.9 | 712.6 | 369.5 | 201.8 | 160.6 | 154.0 | 153.0 | 150.4 | 146.9 | 144.8 |
| 57.5° | 1699.6 | 1064.3 | 586.0 | 288.7 | 178.4 | 156.5 | 153.0 | 151.5 | 147.9 | 143.8 | 139.8 |
| 60° | 1687.4 | 980.4 | 486.9 | 243.4 | 172.8 | 158.1 | 155.5 | 153.5 | 148.4 | 142.3 | 137.7 |
| 62.5° | 1611.1 | 885.9 | 415.7 | 225.7 | 175.9 | 164.7 | 163.7 | 160.6 | 153.0 | 145.9 | 138.8 |
| 65° | 1413.9 | 749.2 | 352.2 | 213.5 | 182.0 | 175.9 | 176.9 | 172.3 | 164.7 | 155.0 | 142.3 |
| 67° | 1195.9 | 610.9 | 293.3 | 201.8 | 186.5 | 187.5 | 191.1 | 187.5 | 177.9 | 164.2 | 146.9 |
| 67.5° | 1138.0 | 575.8 | 278.5 | 198.2 | 187.5 | 190.6 | 194.7 | 192.1 | 182.5 | 166.7 | 148.9 |
| 70° | 845.7 | 405.6 | 207.9 | 179.4 | 187.5 | 199.7 | 208.9 | 211.4 | 200.8 | 178.9 | 153.0 |
| 72.5° | 595.7 | 261.7 | 159.6 | 155.5 | 170.3 | 186.5 | 203.8 | 212.4 | 200.2 | 176.4 | 147.4 |
| 75° | 357.8 | 163.7 | 129.6 | 132.1 | 143.3 | 160.1 | 173.8 | 177.4 | 162.1 | 146.9 | 127.6 |
| 77.5° | 165.7 | 108.8 | 101.6 | 105.2 | 115.9 | 123.5 | 123.5 | 116.4 | 104.7 | 95.6 | 91.5 |
| 80° | 97.6 | 88.9 | 88.4 | 95.0 | 102.2 | 96.6 | 87.9 | 78.3 | 72.2 | 69.1 | 67.6 |
| 82.5° | 91.5 | 95.0 | 101.1 | 102.7 | 97.1 | 83.4 | 72.7 | 63.0 | 60.0 | 58.4 | 56.9 |
| 85° | 107.7 | 115.4 | 105.2 | 97.1 | 85.9 | 70.1 | 56.9 | 48.8 | 47.3 | 45.7 | 43.7 |
| 87.5° | 99.6 | 95.0 | 82.8 | 71.2 | 59.0 | 42.7 | 31.0 | 28.0 | 30.0 | 29.5 | 28.5 |
| 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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|-------|-------|-------|-------|-------|-------|
| 0° | 831.0 | 831.0 | 831.0 | 831.0 | 831.0 |
| 2.5° | 809.1 | 809.1 | 807.1 | 806.1 | 808.6 |
| 5° | 794.9 | 795.4 | 793.9 | 793.4 | 793.9 |
| 7.5° | 791.8 | 791.3 | 790.3 | 789.3 | 790.3 |
| 10° | 801.0 | 800.5 | 799.0 | 800.0 | 798.5 |
| 12.5° | 828.4 | 831.5 | 831.0 | 832.0 | 834.0 |
| 15° | 873.2 | 872.7 | 871.1 | 872.1 | 873.7 |
| 17.5° | 898.6 | 894.5 | 891.0 | 889.4 | 889.4 |
| 20° | 892.5 | 880.8 | 874.7 | 871.1 | 870.1 |
| 22.5° | 856.4 | 839.6 | 826.9 | 823.9 | 821.3 |
| 25° | 797.4 | 776.6 | 760.3 | 756.8 | 750.2 |
| 27.5° | 728.8 | 700.9 | 681.6 | 677.5 | 673.9 |
| 30° | 638.9 | 606.8 | 584.5 | 570.3 | 574.8 |
| 32.5° | 529.1 | 498.6 | 472.7 | 449.8 | 446.2 |
| 35° | 408.6 | 375.1 | 352.2 | 342.0 | 335.4 |
| 37.5° | 304.9 | 277.0 | 261.7 | 252.1 | 252.6 |
| 40° | 233.3 | 218.5 | 210.4 | 203.8 | 204.3 |
| 42.5° | 194.7 | 188.1 | 186.0 | 183.0 | 181.4 |
| 45° | 176.4 | 174.3 | 174.8 | 171.8 | 170.8 |
| 47.5° | 166.2 | 164.7 | 165.2 | 163.1 | 162.6 |
| 50° | 158.1 | 157.0 | 157.6 | 156.0 | 155.5 |
| 52.5° | 149.9 | 150.4 | 149.9 | 148.9 | 148.9 |
| 55° | 142.8 | 142.3 | 143.3 | 141.8 | 141.8 |
| 57.5° | 137.2 | 136.7 | 136.7 | 136.2 | 136.2 |
| 60° | 134.2 | 132.1 | 131.6 | 131.6 | 132.1 |
| 62.5° | 132.7 | 129.1 | 128.6 | 128.6 | 129.1 |
| 65° | 133.2 | 127.6 | 125.5 | 125.0 | 124.5 |
| 67° | 133.7 | 125.5 | 121.5 | 119.4 | 118.9 |
| 67.5° | 134.2 | 124.5 | 119.9 | 117.9 | 116.9 |
| 70° | 131.1 | 117.4 | 110.8 | 107.2 | 106.2 |
| 72.5° | 123.5 | 108.8 | 100.6 | 96.1 | 95.0 |
| 75° | 109.8 | 98.6 | 91.5 | 86.4 | 84.4 |
| 77.5° | 84.9 | 79.8 | 77.3 | 74.2 | 73.2 |
| 80° | 66.1 | 63.5 | 62.5 | 60.5 | 60.0 |
| 82.5° | 54.9 | 52.3 | 50.8 | 48.3 | 46.8 |
| 85° | 42.7 | 39.6 | 38.6 | 36.6 | 35.6 |
| 87.5° | 28.0 | 26.4 | 25.9 | 23.4 | 22.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)