

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: P159636

Luminaire Tested: **VTS-F02-LED-E1-T4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159636
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F02-LED-E1-T4-7050
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5042.4 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

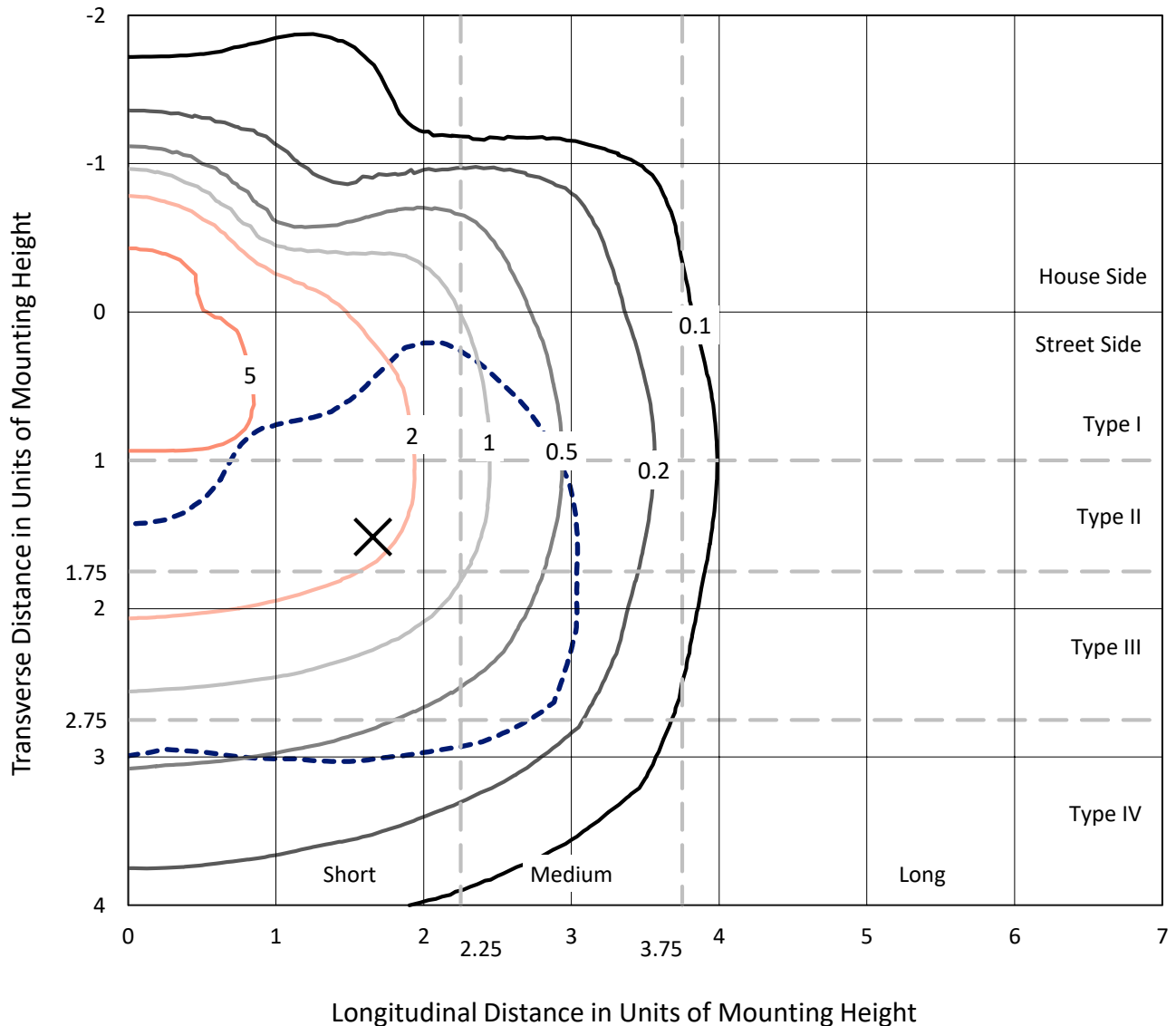
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

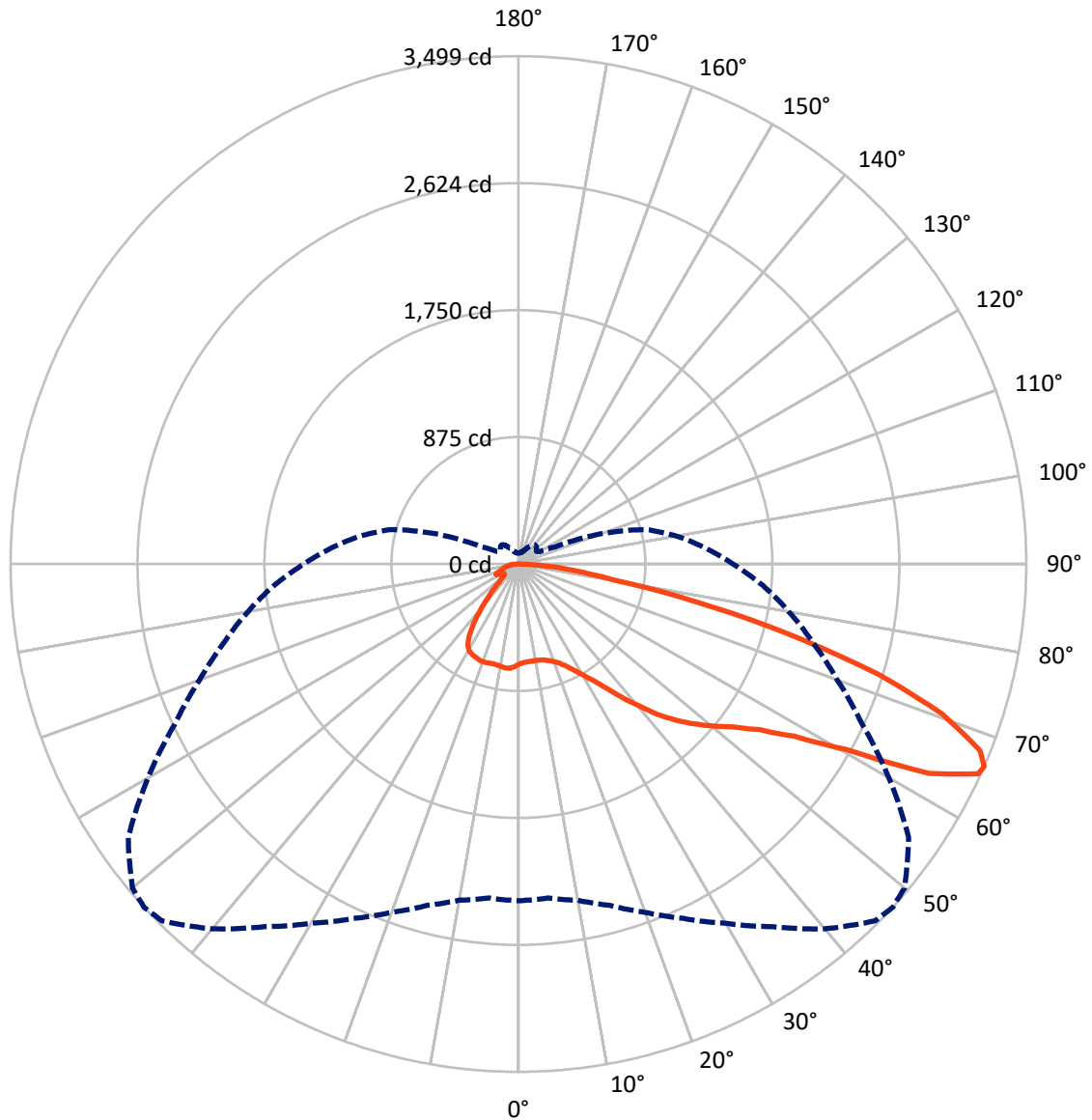


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1044.0 | 0.0 | 1044.0 |
| | % Fixture | 20.7 | 0.0 | 20.7 |
| Street Side | Lumens | 3998.4 | 0.0 | 3998.4 |
| | % Fixture | 79.3 | 0.0 | 79.3 |
| Total | Lumens | 5042.4 | 0.0 | 5042.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.5 | 1.3 |
| 10°-20° | 199.4 | 4.0 |
| 20°-30° | 340.2 | 6.7 |
| 30°-40° | 513.5 | 10.2 |
| 40°-50° | 667.4 | 13.2 |
| 50°-60° | 915.6 | 18.2 |
| 60°-70° | 1408.5 | 27.9 |
| 70°-80° | 814.2 | 16.1 |
| 80°-90° | 117.0 | 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° | 5042.4 | 100.0 |
| 0°-180° | 5042.4 | 100.0 |



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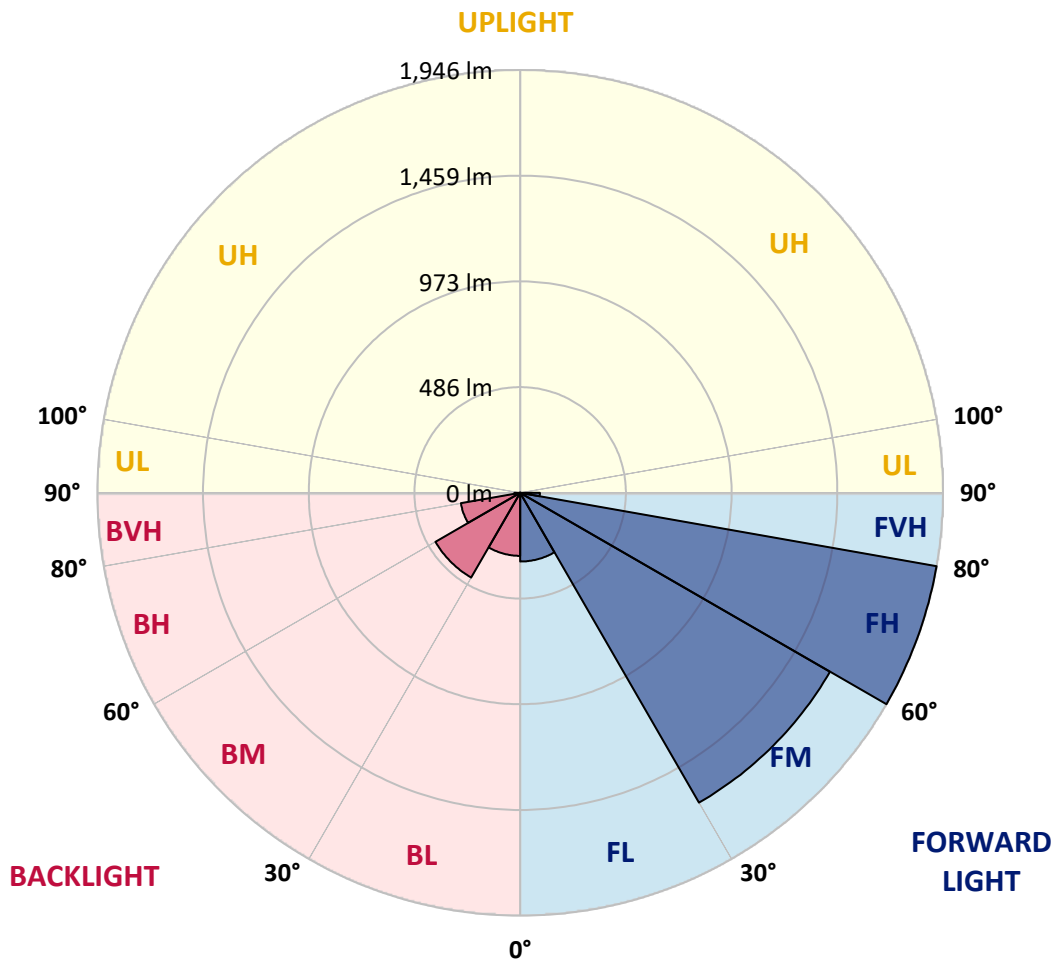
CATALOG NUMBER: VTS-F02-LED-E1-T4-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 316.1 | 6.3 | | | |
| FM | (30°-60°) | 1646.1 | 32.6 | | | |
| FH | (60°-80°) | 1945.7 | 38.6 | | | G2/5000 |
| FVH | (80°-90°) | 90.5 | 1.8 | | | G1/100 |
| BL | (0°-30°) | 290.0 | 5.8 | B1/500 | | |
| BM | (30°-60°) | 450.4 | 8.9 | B1/1000 | | |
| BH | (60°-80°) | 277.1 | 5.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 26.5 | 0.5 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 |
| 2.5° | 672.2 | 672.6 | 672.9 | 672.9 | 673.9 | 673.9 | 675.6 | 676.6 | 677.0 | 679.0 | 680.4 |
| 5° | 659.7 | 659.4 | 659.7 | 660.4 | 662.1 | 663.4 | 666.8 | 669.2 | 671.2 | 674.6 | 676.3 |
| 7.5° | 654.3 | 655.0 | 655.6 | 656.0 | 657.3 | 660.7 | 663.8 | 666.1 | 670.2 | 674.3 | 676.0 |
| 10° | 661.4 | 662.4 | 661.4 | 662.1 | 662.1 | 665.1 | 666.5 | 668.2 | 671.2 | 674.9 | 676.0 |
| 12.5° | 678.0 | 680.0 | 678.0 | 676.3 | 674.9 | 677.7 | 677.0 | 675.6 | 677.3 | 678.3 | 678.3 |
| 15° | 705.4 | 705.4 | 704.1 | 701.7 | 698.3 | 698.7 | 695.6 | 692.6 | 691.2 | 688.8 | 687.1 |
| 17.5° | 732.2 | 731.5 | 728.5 | 725.4 | 723.1 | 722.0 | 717.6 | 713.6 | 708.8 | 705.1 | 701.0 |
| 20° | 758.3 | 761.0 | 757.3 | 752.9 | 749.2 | 746.8 | 743.4 | 735.3 | 729.5 | 723.4 | 719.3 |
| 22.5° | 803.4 | 801.0 | 796.9 | 790.5 | 786.8 | 782.7 | 775.6 | 766.8 | 758.0 | 750.5 | 745.4 |
| 25° | 849.8 | 847.4 | 841.7 | 836.9 | 831.5 | 828.1 | 820.3 | 809.5 | 801.0 | 789.5 | 782.7 |
| 27.5° | 899.6 | 897.6 | 890.8 | 887.1 | 883.3 | 879.3 | 872.5 | 861.3 | 853.5 | 840.3 | 833.2 |
| 30° | 955.8 | 955.5 | 946.4 | 945.7 | 940.3 | 935.8 | 931.1 | 921.6 | 913.8 | 900.6 | 892.1 |
| 32.5° | 1015.8 | 1014.5 | 1008.0 | 1006.0 | 1009.7 | 1006.7 | 999.9 | 990.1 | 979.9 | 972.1 | 962.6 |
| 35° | 1101.2 | 1098.8 | 1095.1 | 1096.8 | 1099.2 | 1107.6 | 1097.1 | 1088.7 | 1076.5 | 1066.3 | 1053.1 |
| 37.5° | 1163.5 | 1160.2 | 1164.6 | 1174.0 | 1187.6 | 1194.0 | 1203.2 | 1203.5 | 1197.8 | 1184.2 | 1172.7 |
| 40° | 1220.8 | 1219.5 | 1229.6 | 1242.8 | 1267.9 | 1286.2 | 1303.5 | 1312.0 | 1314.0 | 1305.2 | 1287.9 |
| 42.5° | 1269.3 | 1273.3 | 1286.9 | 1307.2 | 1342.4 | 1370.2 | 1402.4 | 1422.4 | 1434.9 | 1430.2 | 1422.4 |
| 45° | 1326.9 | 1328.9 | 1345.5 | 1371.2 | 1404.8 | 1450.9 | 1493.2 | 1527.1 | 1549.1 | 1548.8 | 1540.0 |
| 47.5° | 1399.0 | 1399.4 | 1413.6 | 1443.8 | 1479.7 | 1526.4 | 1580.0 | 1625.0 | 1654.2 | 1655.5 | 1648.7 |
| 50° | 1484.8 | 1484.1 | 1499.7 | 1528.1 | 1566.4 | 1611.5 | 1668.4 | 1724.6 | 1765.3 | 1765.3 | 1755.5 |
| 52.5° | 1595.2 | 1593.9 | 1602.3 | 1627.4 | 1664.3 | 1711.8 | 1768.4 | 1833.4 | 1877.5 | 1886.9 | 1865.6 |
| 55° | 1742.6 | 1744.6 | 1746.7 | 1768.7 | 1800.2 | 1837.8 | 1902.9 | 1962.8 | 2021.8 | 2027.2 | 2014.7 |
| 57.5° | 1913.0 | 1906.3 | 1920.8 | 1956.7 | 1992.7 | 2039.8 | 2085.8 | 2156.7 | 2226.5 | 2238.3 | 2236.6 |
| 60° | 2179.4 | 2170.5 | 2185.5 | 2231.2 | 2270.8 | 2345.0 | 2424.0 | 2515.5 | 2598.2 | 2622.5 | 2593.1 |
| 62.5° | 2424.3 | 2435.2 | 2455.5 | 2508.7 | 2566.3 | 2665.2 | 2783.8 | 2940.7 | 3097.6 | 3183.0 | 3176.9 |
| 65° | 2402.3 | 2392.1 | 2431.1 | 2503.6 | 2608.0 | 2734.0 | 2881.4 | 3070.5 | 3296.5 | 3467.9 | 3483.2 |
| 66° | 2320.6 | 2310.1 | 2352.2 | 2435.2 | 2554.4 | 2694.7 | 2858.4 | 3050.8 | 3281.9 | 3475.7 | 3499.1 |
| 67.5° | 2185.8 | 2175.3 | 2222.7 | 2298.3 | 2421.3 | 2597.8 | 2774.7 | 2985.1 | 3225.3 | 3411.0 | 3430.0 |
| 70° | 1925.6 | 1911.3 | 1948.3 | 2033.7 | 2133.3 | 2304.0 | 2472.4 | 2695.4 | 2942.1 | 3090.5 | 3097.6 |
| 72.5° | 1631.1 | 1597.9 | 1637.2 | 1703.0 | 1774.1 | 1915.4 | 2062.1 | 2214.6 | 2411.1 | 2548.3 | 2587.6 |
| 75° | 1183.5 | 1200.8 | 1212.3 | 1255.7 | 1302.8 | 1419.7 | 1505.8 | 1633.5 | 1785.6 | 1884.9 | 1916.4 |
| 77.5° | 627.9 | 653.9 | 670.2 | 713.6 | 791.5 | 880.6 | 973.8 | 1052.7 | 1152.7 | 1208.3 | 1246.9 |
| 80° | 352.4 | 370.7 | 397.1 | 431.3 | 469.3 | 537.7 | 593.0 | 633.6 | 647.8 | 657.7 | 666.5 |
| 82.5° | 193.8 | 240.2 | 279.5 | 303.3 | 325.6 | 353.1 | 385.9 | 419.8 | 430.7 | 414.4 | 405.9 |
| 85° | 30.2 | 44.4 | 135.2 | 165.0 | 179.6 | 200.6 | 224.3 | 249.4 | 249.7 | 214.8 | 234.5 |
| 87.5° | 8.5 | 9.5 | 19.3 | 29.1 | 28.5 | 23.0 | 28.5 | 51.8 | 30.5 | 15.2 | 17.6 |
| 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-F02-LED-E1-T4-7050

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 |
| 2.5° | 681.0 | 681.7 | 683.4 | 685.1 | 686.8 | 688.5 | 689.5 | 691.2 | 692.6 | 694.6 | 697.0 |
| 5° | 678.3 | 680.0 | 683.1 | 686.8 | 690.2 | 693.2 | 695.6 | 699.0 | 702.1 | 704.8 | 708.8 |
| 7.5° | 678.3 | 681.7 | 686.8 | 690.9 | 693.9 | 697.7 | 701.4 | 704.8 | 708.2 | 710.9 | 713.6 |
| 10° | 678.7 | 682.1 | 687.1 | 691.9 | 695.3 | 699.3 | 702.4 | 705.4 | 709.2 | 710.9 | 714.3 |
| 12.5° | 680.0 | 681.4 | 685.1 | 689.9 | 693.9 | 698.0 | 701.0 | 704.1 | 708.2 | 708.8 | 711.2 |
| 15° | 686.8 | 684.8 | 685.8 | 689.2 | 693.6 | 697.0 | 700.4 | 702.7 | 705.4 | 704.8 | 706.8 |
| 17.5° | 699.3 | 694.3 | 692.2 | 692.6 | 694.6 | 697.0 | 698.3 | 698.7 | 699.0 | 696.0 | 696.3 |
| 20° | 716.3 | 709.2 | 704.4 | 702.1 | 699.3 | 697.0 | 693.2 | 688.8 | 684.8 | 678.7 | 678.0 |
| 22.5° | 741.7 | 731.2 | 726.1 | 719.7 | 711.5 | 701.4 | 692.2 | 681.4 | 672.6 | 663.4 | 660.0 |
| 25° | 778.6 | 767.8 | 762.4 | 752.2 | 737.6 | 723.1 | 709.8 | 695.3 | 682.4 | 671.6 | 666.5 |
| 27.5° | 828.1 | 817.3 | 811.5 | 801.0 | 783.0 | 768.5 | 750.2 | 734.6 | 719.0 | 703.1 | 696.6 |
| 30° | 888.1 | 878.6 | 872.1 | 863.7 | 848.1 | 832.2 | 810.8 | 786.8 | 762.0 | 736.6 | 724.1 |
| 32.5° | 958.9 | 948.4 | 943.6 | 933.8 | 917.6 | 900.9 | 877.2 | 846.4 | 805.1 | 765.1 | 740.0 |
| 35° | 1047.3 | 1035.5 | 1030.0 | 1017.2 | 998.2 | 973.8 | 948.4 | 907.0 | 851.1 | 795.6 | 754.6 |
| 37.5° | 1165.6 | 1139.1 | 1121.2 | 1091.7 | 1061.2 | 1027.0 | 990.7 | 948.4 | 882.3 | 813.5 | 756.6 |
| 40° | 1270.3 | 1243.5 | 1208.9 | 1166.6 | 1119.2 | 1072.1 | 1030.7 | 982.6 | 910.8 | 826.4 | 750.2 |
| 42.5° | 1400.4 | 1352.9 | 1297.7 | 1240.5 | 1177.4 | 1119.5 | 1070.4 | 1013.8 | 930.1 | 829.8 | 732.2 |
| 45° | 1519.3 | 1462.7 | 1388.9 | 1312.6 | 1234.4 | 1161.5 | 1106.3 | 1043.3 | 946.7 | 829.8 | 710.5 |
| 47.5° | 1627.7 | 1560.0 | 1471.5 | 1376.7 | 1285.5 | 1205.9 | 1143.2 | 1073.4 | 970.1 | 840.3 | 704.1 |
| 50° | 1728.0 | 1650.1 | 1549.5 | 1439.4 | 1337.0 | 1252.0 | 1184.6 | 1112.0 | 1005.6 | 867.4 | 719.7 |
| 52.5° | 1833.7 | 1751.1 | 1628.4 | 1511.5 | 1398.7 | 1307.5 | 1235.7 | 1159.8 | 1051.7 | 910.1 | 747.1 |
| 55° | 1972.3 | 1875.4 | 1736.2 | 1607.4 | 1483.4 | 1382.8 | 1301.1 | 1217.1 | 1102.2 | 958.2 | 780.7 |
| 57.5° | 2190.9 | 2050.3 | 1911.0 | 1743.6 | 1626.7 | 1494.2 | 1404.8 | 1308.2 | 1184.2 | 1020.9 | 831.2 |
| 60° | 2573.4 | 2400.6 | 2233.2 | 2040.8 | 1896.4 | 1757.9 | 1622.7 | 1496.6 | 1347.2 | 1162.5 | 941.9 |
| 62.5° | 3119.6 | 2944.1 | 2681.2 | 2445.7 | 2227.8 | 2044.2 | 1868.0 | 1707.7 | 1515.9 | 1314.0 | 1078.5 |
| 65° | 3445.9 | 3245.0 | 2931.6 | 2615.1 | 2350.5 | 2122.8 | 1921.2 | 1725.0 | 1518.0 | 1321.1 | 1119.8 |
| 66° | 3472.0 | 3281.9 | 2947.1 | 2612.7 | 2337.9 | 2101.8 | 1892.0 | 1689.1 | 1477.0 | 1288.6 | 1106.3 |
| 67.5° | 3423.5 | 3259.9 | 2915.3 | 2566.6 | 2285.7 | 2030.6 | 1815.1 | 1602.3 | 1389.2 | 1214.7 | 1061.2 |
| 70° | 3081.7 | 2963.4 | 2667.9 | 2341.3 | 2061.1 | 1836.1 | 1608.8 | 1404.1 | 1202.2 | 1055.5 | 941.6 |
| 72.5° | 2526.3 | 2376.6 | 2169.9 | 1950.3 | 1729.7 | 1530.2 | 1323.5 | 1149.3 | 979.9 | 873.2 | 792.5 |
| 75° | 1855.8 | 1720.9 | 1493.2 | 1356.3 | 1210.6 | 1085.3 | 946.0 | 781.0 | 660.7 | 607.2 | 587.5 |
| 77.5° | 1176.4 | 1030.0 | 837.9 | 686.8 | 590.6 | 507.6 | 400.2 | 318.2 | 254.8 | 265.3 | 293.8 |
| 80° | 594.3 | 512.0 | 383.2 | 302.6 | 261.6 | 217.5 | 172.1 | 130.4 | 95.2 | 108.8 | 123.0 |
| 82.5° | 381.5 | 318.5 | 253.8 | 199.9 | 168.7 | 148.7 | 118.9 | 86.4 | 64.4 | 72.5 | 88.8 |
| 85° | 229.7 | 194.1 | 154.8 | 126.7 | 110.1 | 91.8 | 67.4 | 47.8 | 47.4 | 50.8 | 62.7 |
| 87.5° | 34.9 | 49.8 | 28.8 | 30.8 | 32.5 | 34.9 | 30.8 | 26.1 | 22.7 | 29.5 | 37.3 |
| 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: P159636

CATALOG NUMBER: VTS-F02-LED-E1-T4-7050

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 |
| 2.5° | 699.3 | 700.0 | 701.4 | 703.1 | 702.7 | 705.1 | 706.5 | 705.1 | 708.2 | 708.2 | 709.8 |
| 5° | 712.2 | 713.2 | 715.6 | 717.3 | 718.0 | 720.0 | 720.7 | 720.4 | 721.0 | 721.4 | 722.0 |
| 7.5° | 715.9 | 718.7 | 719.7 | 720.7 | 721.0 | 721.7 | 721.7 | 721.0 | 721.0 | 720.7 | 721.4 |
| 10° | 714.9 | 715.9 | 716.6 | 716.3 | 716.3 | 715.6 | 715.3 | 714.9 | 714.9 | 714.3 | 715.3 |
| 12.5° | 711.5 | 711.5 | 711.5 | 710.9 | 710.9 | 710.5 | 710.5 | 710.5 | 711.2 | 711.5 | 713.2 |
| 15° | 704.8 | 704.8 | 705.4 | 705.1 | 706.1 | 707.8 | 709.8 | 711.2 | 712.9 | 713.2 | 714.3 |
| 17.5° | 694.3 | 694.6 | 696.6 | 701.0 | 705.4 | 710.5 | 714.3 | 715.3 | 713.9 | 710.5 | 708.2 |
| 20° | 676.0 | 680.4 | 688.5 | 699.0 | 708.8 | 715.3 | 717.0 | 712.9 | 706.5 | 697.7 | 692.9 |
| 22.5° | 659.7 | 668.5 | 683.1 | 700.4 | 712.6 | 717.0 | 711.9 | 702.4 | 690.9 | 680.7 | 673.6 |
| 25° | 666.1 | 676.3 | 691.6 | 706.5 | 714.3 | 711.9 | 701.7 | 688.2 | 676.0 | 664.1 | 652.6 |
| 27.5° | 693.2 | 703.4 | 714.3 | 718.7 | 715.9 | 707.1 | 692.9 | 678.3 | 662.1 | 645.1 | 630.9 |
| 30° | 719.0 | 724.8 | 725.4 | 721.0 | 711.2 | 697.0 | 680.4 | 663.4 | 642.8 | 622.4 | 604.5 |
| 32.5° | 727.1 | 720.4 | 708.2 | 695.6 | 682.1 | 667.5 | 648.2 | 625.8 | 603.8 | 580.8 | 560.8 |
| 35° | 724.8 | 697.3 | 667.2 | 640.4 | 624.1 | 607.5 | 589.9 | 560.1 | 535.4 | 515.7 | 502.8 |
| 37.5° | 703.4 | 653.3 | 606.8 | 567.9 | 542.5 | 522.8 | 496.7 | 472.0 | 450.6 | 441.8 | 431.3 |
| 40° | 673.6 | 597.0 | 532.6 | 478.1 | 451.7 | 426.6 | 397.4 | 378.5 | 372.4 | 364.2 | 364.6 |
| 42.5° | 630.9 | 531.3 | 448.3 | 385.6 | 356.8 | 329.3 | 308.7 | 297.5 | 297.8 | 291.1 | 292.4 |
| 45° | 585.8 | 465.2 | 360.9 | 298.5 | 270.0 | 246.7 | 235.1 | 231.8 | 232.1 | 232.4 | 230.4 |
| 47.5° | 558.4 | 413.7 | 289.4 | 226.3 | 201.3 | 188.1 | 182.0 | 180.3 | 180.6 | 180.9 | 178.6 |
| 50° | 554.3 | 386.9 | 241.6 | 173.1 | 156.9 | 149.4 | 146.4 | 144.7 | 144.7 | 143.3 | 141.3 |
| 52.5° | 565.8 | 380.2 | 218.2 | 150.1 | 134.5 | 127.7 | 125.4 | 124.0 | 122.0 | 119.3 | 115.5 |
| 55° | 584.1 | 386.3 | 211.1 | 142.3 | 127.1 | 120.3 | 117.2 | 116.6 | 113.2 | 108.1 | 102.0 |
| 57.5° | 618.0 | 408.3 | 215.8 | 144.3 | 128.4 | 122.3 | 120.3 | 119.6 | 114.9 | 107.1 | 99.3 |
| 60° | 715.3 | 472.3 | 239.6 | 155.9 | 138.2 | 133.2 | 133.2 | 132.1 | 125.7 | 114.5 | 103.3 |
| 62.5° | 849.4 | 566.2 | 271.7 | 171.8 | 151.8 | 151.1 | 156.9 | 157.2 | 145.7 | 127.7 | 110.1 |
| 65° | 914.2 | 610.2 | 282.9 | 175.2 | 155.5 | 163.3 | 174.8 | 174.8 | 158.6 | 133.8 | 111.1 |
| 66° | 914.5 | 609.2 | 279.5 | 171.1 | 151.5 | 161.6 | 173.5 | 173.5 | 156.5 | 132.1 | 109.4 |
| 67.5° | 891.1 | 590.2 | 268.4 | 163.7 | 142.3 | 151.8 | 162.3 | 162.0 | 146.7 | 125.4 | 104.7 |
| 70° | 799.3 | 522.1 | 236.5 | 151.5 | 131.5 | 131.8 | 135.5 | 133.2 | 123.0 | 108.4 | 95.2 |
| 72.5° | 689.2 | 436.8 | 205.0 | 143.7 | 123.0 | 116.6 | 113.5 | 111.5 | 105.0 | 96.2 | 88.1 |
| 75° | 528.6 | 339.2 | 178.6 | 136.5 | 115.5 | 104.4 | 100.3 | 98.6 | 94.2 | 89.1 | 82.7 |
| 77.5° | 323.9 | 232.4 | 151.5 | 125.0 | 107.1 | 96.9 | 92.5 | 89.1 | 84.7 | 80.0 | 75.6 |
| 80° | 139.6 | 140.3 | 121.3 | 106.1 | 93.2 | 81.3 | 75.6 | 71.5 | 69.1 | 67.4 | 65.1 |
| 82.5° | 97.6 | 100.6 | 92.5 | 82.3 | 71.2 | 62.7 | 57.6 | 56.6 | 56.9 | 56.9 | 56.2 |
| 85° | 73.2 | 71.8 | 64.7 | 59.0 | 53.9 | 48.5 | 44.4 | 44.0 | 45.4 | 45.4 | 44.4 |
| 87.5° | 42.4 | 42.7 | 36.6 | 34.2 | 35.6 | 30.5 | 27.8 | 28.1 | 31.5 | 31.2 | 30.5 |
| 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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CATALOG NUMBER: VTS-F02-LED-E1-T4-7050

CANDELA DISTRIBUTION (continued):

| | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|-------|
| 0° | 689.9 | 689.9 | 689.9 | 689.9 | 689.9 |
| 2.5° | 709.8 | 710.9 | 710.5 | 711.5 | 710.5 |
| 5° | 723.1 | 722.7 | 722.4 | 723.7 | 722.0 |
| 7.5° | 721.0 | 721.4 | 721.4 | 721.4 | 721.0 |
| 10° | 715.9 | 717.3 | 718.0 | 719.3 | 719.0 |
| 12.5° | 714.3 | 716.3 | 718.3 | 720.4 | 720.7 |
| 15° | 714.6 | 715.9 | 717.0 | 718.0 | 718.3 |
| 17.5° | 705.8 | 705.4 | 704.4 | 703.8 | 703.1 |
| 20° | 687.8 | 686.1 | 684.4 | 681.7 | 683.1 |
| 22.5° | 665.5 | 660.7 | 655.3 | 650.9 | 650.6 |
| 25° | 639.4 | 630.6 | 621.8 | 616.0 | 614.0 |
| 27.5° | 616.3 | 605.8 | 596.7 | 591.6 | 590.2 |
| 30° | 588.9 | 579.4 | 571.3 | 566.9 | 564.2 |
| 32.5° | 548.2 | 540.8 | 530.6 | 527.2 | 526.9 |
| 35° | 491.6 | 485.9 | 478.8 | 477.4 | 475.7 |
| 37.5° | 427.6 | 425.6 | 422.2 | 418.1 | 417.4 |
| 40° | 359.2 | 360.5 | 359.5 | 357.1 | 353.4 |
| 42.5° | 293.1 | 295.5 | 295.8 | 297.5 | 299.2 |
| 45° | 233.5 | 235.5 | 235.5 | 237.2 | 239.2 |
| 47.5° | 179.2 | 177.9 | 178.9 | 180.6 | 181.6 |
| 50° | 135.5 | 134.5 | 132.8 | 131.5 | 130.1 |
| 52.5° | 109.1 | 107.1 | 102.3 | 101.0 | 99.6 |
| 55° | 96.2 | 92.5 | 89.1 | 87.8 | 87.8 |
| 57.5° | 92.5 | 87.8 | 84.0 | 82.3 | 81.7 |
| 60° | 93.2 | 86.4 | 81.7 | 78.9 | 77.9 |
| 62.5° | 96.2 | 86.7 | 80.3 | 77.3 | 76.2 |
| 65° | 95.9 | 86.1 | 80.0 | 76.6 | 75.6 |
| 66° | 94.2 | 85.0 | 79.3 | 76.2 | 75.6 |
| 67.5° | 91.5 | 83.7 | 78.6 | 75.9 | 74.9 |
| 70° | 86.1 | 81.0 | 77.3 | 74.9 | 73.9 |
| 72.5° | 81.7 | 78.3 | 74.9 | 72.2 | 71.5 |
| 75° | 77.6 | 74.2 | 71.2 | 69.8 | 68.8 |
| 77.5° | 71.5 | 68.4 | 66.7 | 65.4 | 64.7 |
| 80° | 63.4 | 61.3 | 59.3 | 57.9 | 56.9 |
| 82.5° | 55.2 | 52.5 | 50.5 | 49.5 | 48.8 |
| 85° | 45.1 | 43.4 | 40.3 | 38.3 | 37.9 |
| 87.5° | 30.2 | 28.5 | 27.4 | 25.8 | 24.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)