

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: P157663

Luminaire Tested: **VTS-F03-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157663
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
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-E1-5XQ-8030
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

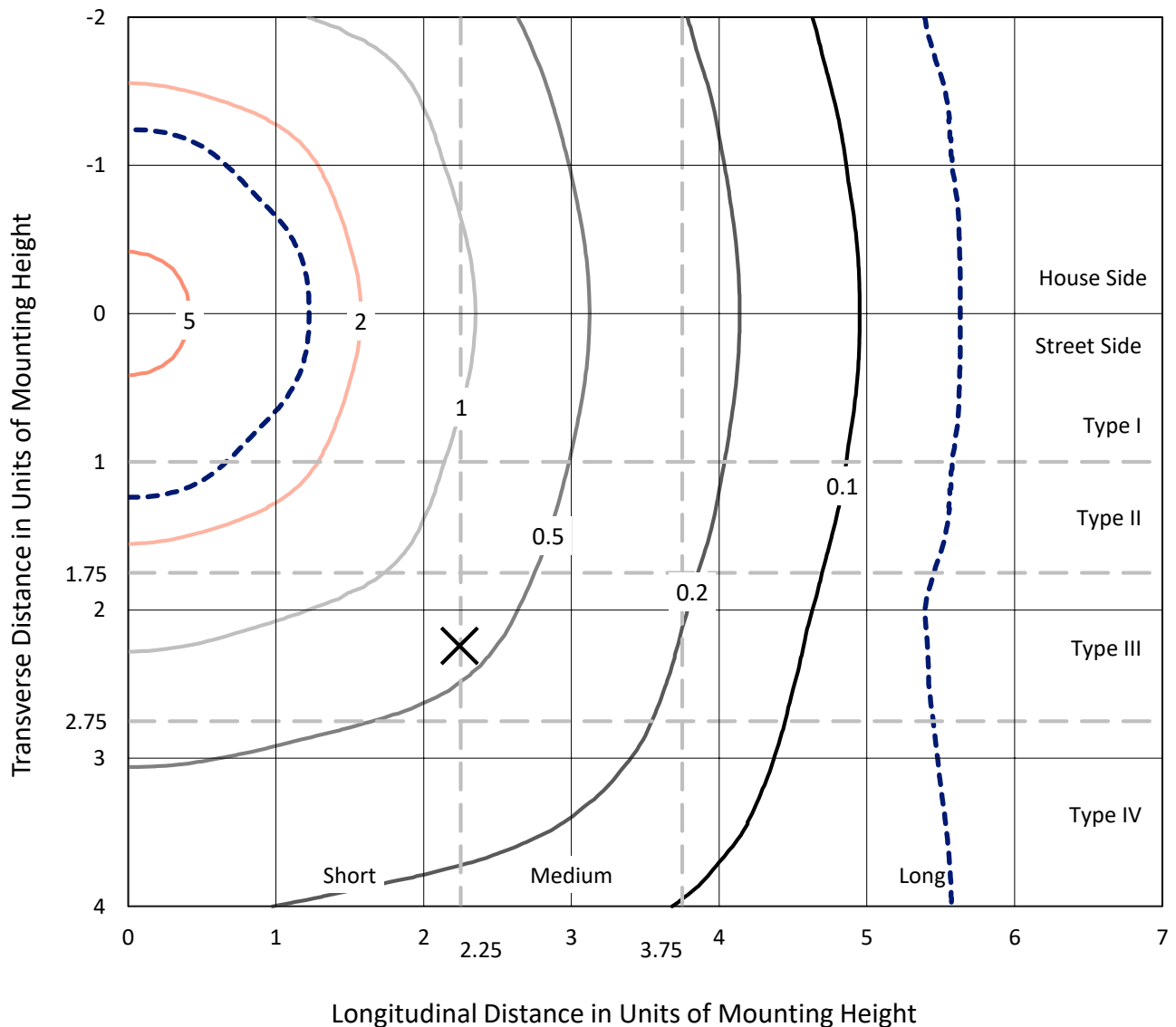
Lumens per Lamp: N/A
Luminaire Lumens: 6610.3 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U1 - G2

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): 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

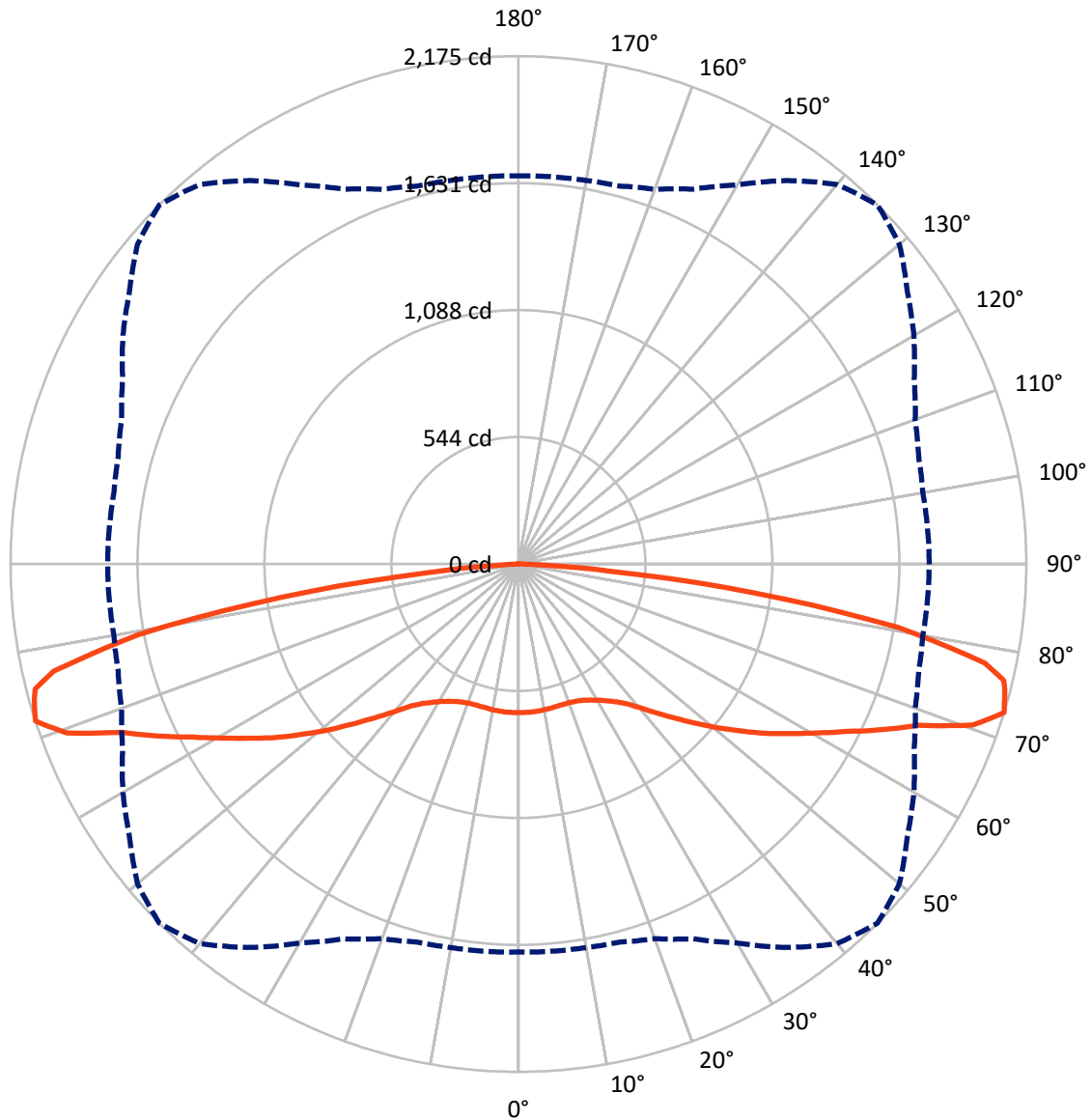
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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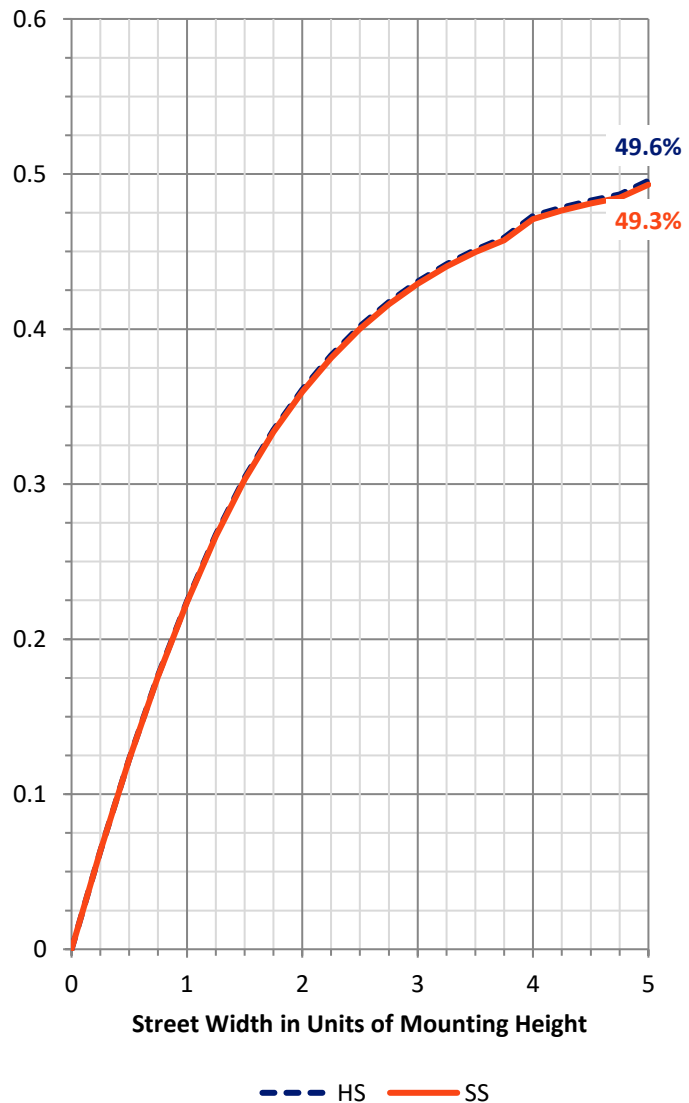
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3303.6 | 1.5 | 3305.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3303.6 | 1.5 | 3305.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6607.2 | 3.1 | 6610.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.7 | 0.9 |
| 10°-20° | 179.3 | 2.7 |
| 20°-30° | 299.8 | 4.5 |
| 30°-40° | 455.7 | 6.9 |
| 40°-50° | 721.8 | 10.9 |
| 50°-60° | 1104.0 | 16.7 |
| 60°-70° | 1580.1 | 23.9 |
| 70°-80° | 1807.9 | 27.4 |
| 80°-90° | 397.9 | 6.0 |
| 90°-100° | 0.3 | 0.0 |
| 100°-110° | 0.7 | 0.0 |
| 110°-120° | 0.5 | 0.0 |
| 120°-130° | 0.5 | 0.0 |
| 130°-140° | 0.5 | 0.0 |
| 140°-150° | 0.4 | 0.0 |
| 150°-160° | 0.2 | 0.0 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 6607.2 | 100.0 |
| 0°-180° | 6610.3 | 100.0 |



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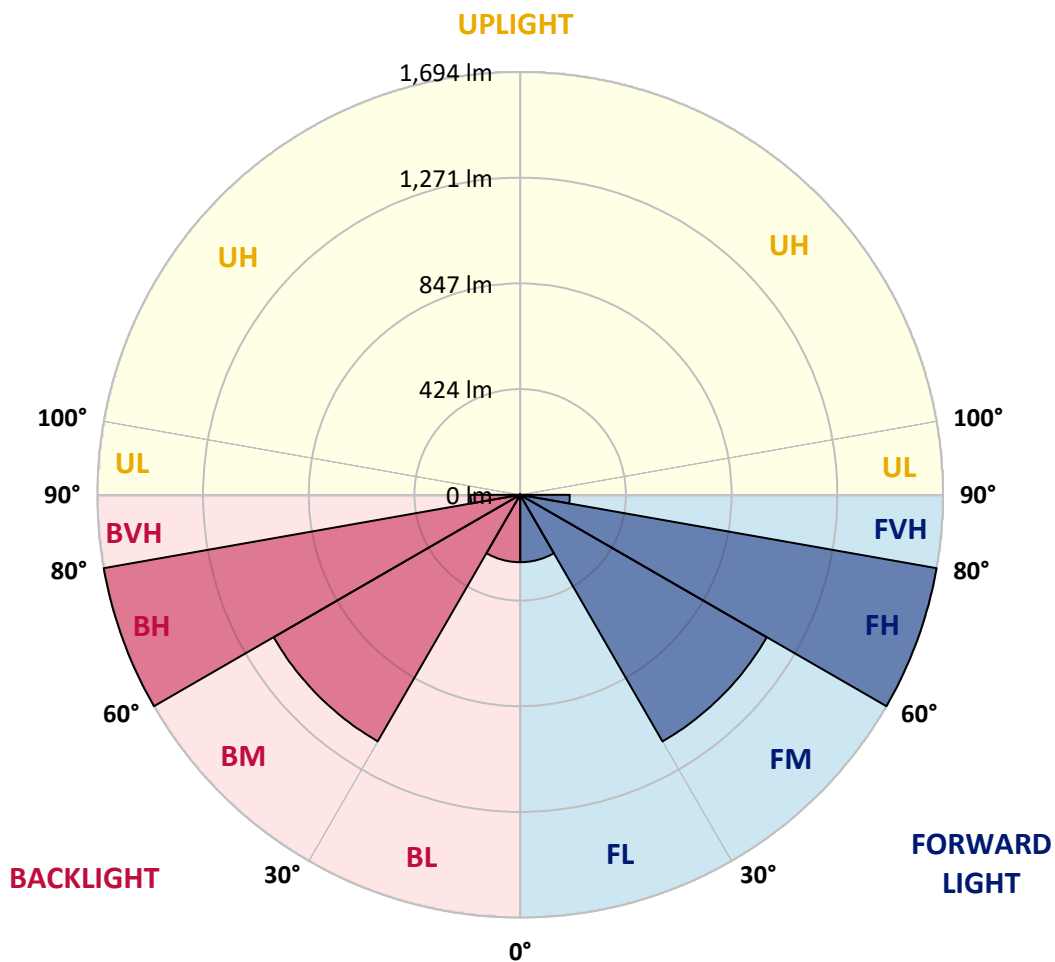
CATALOG NUMBER: VTS-F03-LED-E1-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 269.9 | 4.1 | | | |
| FM | (30°-60°) | 1140.7 | 17.3 | | | |
| FH | (60°-80°) | 1694.0 | 25.6 | | | G1/1800 |
| FVH | (80°-90°) | 199.0 | 3.0 | | | G2/225 |
| BL | (0°-30°) | 269.9 | 4.1 | B1/500 | | |
| BM | (30°-60°) | 1140.7 | 17.3 | B2/2500 | | |
| BH | (60°-80°) | 1694.0 | 25.6 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 199.0 | 3.0 | | | G2/225 |
| UL | (90°-100°) | 0.3 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 1.5 | 0.0 | | U1/10 | |

BUG Rating: B3-U1-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 |
| 2.5° | 636.7 | 635.8 | 636.3 | 637.1 | 636.7 | 636.7 | 636.3 | 636.3 | 637.1 | 636.3 | 636.7 |
| 5° | 637.1 | 636.3 | 636.7 | 637.1 | 636.7 | 637.1 | 636.7 | 636.7 | 636.7 | 636.3 | 637.1 |
| 7.5° | 635.4 | 635.4 | 635.8 | 635.8 | 635.4 | 635.8 | 635.8 | 635.8 | 635.4 | 635.4 | 636.3 |
| 10° | 634.6 | 634.2 | 634.2 | 634.6 | 634.2 | 634.2 | 634.6 | 634.6 | 633.8 | 633.8 | 634.6 |
| 12.5° | 633.3 | 632.9 | 632.9 | 632.9 | 632.5 | 632.5 | 632.9 | 632.9 | 632.5 | 632.1 | 633.3 |
| 15° | 632.5 | 632.1 | 632.1 | 632.1 | 631.2 | 631.7 | 631.7 | 631.7 | 631.2 | 630.8 | 632.1 |
| 17.5° | 632.1 | 631.7 | 631.7 | 631.7 | 631.2 | 631.2 | 631.2 | 631.2 | 630.8 | 630.8 | 631.7 |
| 20° | 632.9 | 632.9 | 632.9 | 632.9 | 632.5 | 632.5 | 632.5 | 632.9 | 632.9 | 632.9 | 633.8 |
| 22.5° | 635.0 | 635.0 | 635.4 | 635.8 | 635.8 | 636.7 | 637.1 | 637.5 | 637.5 | 637.9 | 638.8 |
| 25° | 640.4 | 640.4 | 640.9 | 641.3 | 642.5 | 643.4 | 645.0 | 645.9 | 646.3 | 646.3 | 646.7 |
| 27.5° | 650.5 | 650.9 | 651.7 | 652.6 | 654.2 | 655.5 | 657.2 | 658.8 | 659.3 | 659.7 | 660.1 |
| 30° | 663.0 | 663.4 | 665.1 | 665.9 | 668.0 | 670.5 | 672.6 | 674.3 | 675.6 | 676.4 | 676.0 |
| 32.5° | 681.0 | 681.8 | 683.9 | 685.2 | 688.1 | 690.6 | 693.5 | 696.0 | 697.3 | 698.5 | 698.1 |
| 35° | 706.1 | 708.2 | 710.3 | 711.5 | 714.4 | 716.5 | 720.3 | 722.8 | 725.3 | 724.5 | 724.9 |
| 37.5° | 743.3 | 744.9 | 745.4 | 746.2 | 749.1 | 750.8 | 755.0 | 758.3 | 759.6 | 760.4 | 760.8 |
| 40° | 793.4 | 793.4 | 795.5 | 793.9 | 797.6 | 798.0 | 803.1 | 807.7 | 808.9 | 812.3 | 809.7 |
| 42.5° | 852.0 | 851.6 | 852.8 | 851.6 | 851.6 | 855.7 | 859.9 | 868.3 | 869.1 | 873.3 | 870.8 |
| 45° | 915.5 | 915.5 | 914.3 | 914.7 | 915.5 | 920.1 | 925.1 | 934.3 | 938.5 | 941.0 | 939.3 |
| 47.5° | 984.5 | 982.8 | 982.4 | 982.0 | 984.5 | 989.5 | 997.0 | 1005.8 | 1016.3 | 1017.1 | 1016.3 |
| 50° | 1054.3 | 1053.9 | 1051.0 | 1053.5 | 1055.1 | 1057.6 | 1071.9 | 1083.6 | 1094.4 | 1101.1 | 1099.0 |
| 52.5° | 1127.9 | 1124.1 | 1124.1 | 1124.1 | 1128.3 | 1136.2 | 1148.8 | 1164.7 | 1179.3 | 1186.4 | 1185.1 |
| 55° | 1202.3 | 1201.0 | 1197.3 | 1195.6 | 1201.0 | 1212.3 | 1230.3 | 1249.5 | 1268.8 | 1279.6 | 1275.4 |
| 57.5° | 1270.4 | 1268.3 | 1268.8 | 1269.2 | 1275.4 | 1290.5 | 1311.4 | 1336.9 | 1357.8 | 1369.5 | 1366.6 |
| 60° | 1323.9 | 1321.4 | 1326.0 | 1327.3 | 1338.6 | 1363.7 | 1397.1 | 1429.3 | 1456.9 | 1468.6 | 1464.0 |
| 62.5° | 1384.6 | 1382.9 | 1385.8 | 1385.4 | 1397.5 | 1425.5 | 1470.3 | 1521.7 | 1563.5 | 1578.5 | 1571.8 |
| 65° | 1482.4 | 1477.4 | 1476.1 | 1471.5 | 1479.4 | 1501.2 | 1545.9 | 1605.7 | 1672.6 | 1711.0 | 1701.8 |
| 67.5° | 1599.4 | 1598.2 | 1594.0 | 1591.5 | 1594.4 | 1621.6 | 1664.6 | 1722.3 | 1790.5 | 1843.6 | 1855.3 |
| 70° | 1676.8 | 1678.4 | 1682.6 | 1688.9 | 1713.1 | 1765.8 | 1844.4 | 1931.8 | 2025.4 | 2065.1 | 2058.0 |
| 72.5° | 1662.1 | 1664.6 | 1668.0 | 1675.9 | 1707.7 | 1770.8 | 1874.5 | 2004.9 | 2122.4 | 2175.1 | 2129.9 |
| 75° | 1590.6 | 1592.7 | 1600.3 | 1612.4 | 1651.3 | 1727.8 | 1839.4 | 1977.8 | 2099.0 | 2151.7 | 2104.4 |
| 76° | 1524.6 | 1531.3 | 1545.1 | 1559.3 | 1606.1 | 1689.3 | 1808.4 | 1956.0 | 2084.4 | 2137.9 | 2092.3 |
| 77.5° | 1374.9 | 1380.8 | 1392.1 | 1416.7 | 1469.8 | 1576.4 | 1715.6 | 1860.7 | 1994.5 | 2042.5 | 2004.1 |
| 80° | 1034.7 | 1039.7 | 1050.1 | 1079.8 | 1125.8 | 1191.8 | 1299.7 | 1441.4 | 1588.1 | 1651.3 | 1626.2 |
| 82.5° | 436.9 | 442.7 | 484.1 | 527.2 | 577.7 | 649.2 | 719.4 | 844.9 | 952.7 | 1024.6 | 986.2 |
| 85° | 48.1 | 59.4 | 73.2 | 99.5 | 122.1 | 162.6 | 202.3 | 278.4 | 352.0 | 396.7 | 350.7 |
| 87.5° | 8.4 | 9.6 | 13.8 | 17.6 | 19.6 | 22.6 | 27.2 | 38.0 | 51.8 | 44.7 | 45.6 |
| 90° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 0.8 | 0.8 | 0.8 | 0.8 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 100° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 |
| 102.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 105° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 107.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.8 | 0.4 |



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CATALOG NUMBER: VTS-F03-LED-E1-5XQ-8030

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 112.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 115° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 117.5° | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 120° | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 122.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 125° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 127.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 130° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 132.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 135° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 137.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 140° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 142.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 145° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.4 |
| 147.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 150° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 |
| 155° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.4 |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| 160° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| 165° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 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-E1-5XQ-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 | 636.3 |
| 2.5° | 636.3 | 636.3 | 637.1 | 636.7 | 636.7 | 637.1 | 637.9 | 637.5 |
| 5° | 636.7 | 637.1 | 636.3 | 636.7 | 637.1 | 637.1 | 637.5 | 637.1 |
| 7.5° | 635.8 | 635.8 | 635.8 | 636.3 | 636.7 | 636.3 | 636.7 | 636.7 |
| 10° | 634.2 | 634.6 | 634.2 | 635.0 | 635.4 | 635.4 | 635.8 | 635.8 |
| 12.5° | 632.9 | 632.9 | 632.9 | 633.8 | 634.2 | 634.2 | 634.6 | 634.2 |
| 15° | 631.7 | 631.7 | 631.2 | 632.1 | 632.9 | 632.9 | 633.3 | 633.3 |
| 17.5° | 631.2 | 631.2 | 630.8 | 631.7 | 632.5 | 632.5 | 632.9 | 632.9 |
| 20° | 632.5 | 632.9 | 632.1 | 632.9 | 633.8 | 634.2 | 634.2 | 634.2 |
| 22.5° | 637.5 | 637.1 | 635.8 | 636.3 | 636.7 | 636.7 | 636.7 | 636.7 |
| 25° | 645.0 | 644.2 | 642.9 | 642.5 | 642.1 | 641.7 | 641.7 | 641.7 |
| 27.5° | 658.0 | 656.7 | 654.7 | 654.2 | 653.8 | 653.0 | 653.0 | 653.0 |
| 30° | 673.5 | 671.8 | 669.3 | 668.4 | 667.2 | 666.4 | 665.9 | 665.5 |
| 32.5° | 695.6 | 692.3 | 689.4 | 687.3 | 686.0 | 683.5 | 683.1 | 682.2 |
| 35° | 721.1 | 718.6 | 714.4 | 713.2 | 711.1 | 709.8 | 709.4 | 707.3 |
| 37.5° | 756.2 | 753.3 | 749.5 | 748.7 | 748.3 | 747.0 | 747.0 | 746.6 |
| 40° | 805.1 | 802.2 | 798.9 | 795.5 | 796.4 | 796.8 | 796.8 | 795.1 |
| 42.5° | 864.9 | 860.3 | 853.6 | 855.7 | 854.5 | 852.8 | 856.1 | 854.1 |
| 45° | 933.1 | 926.8 | 921.8 | 919.7 | 919.7 | 917.6 | 920.9 | 920.9 |
| 47.5° | 1008.7 | 998.7 | 989.5 | 989.9 | 986.6 | 987.4 | 989.5 | 992.4 |
| 50° | 1088.6 | 1075.2 | 1066.4 | 1062.2 | 1058.9 | 1060.2 | 1063.9 | 1064.8 |
| 52.5° | 1171.4 | 1155.0 | 1143.3 | 1137.1 | 1132.9 | 1134.6 | 1137.5 | 1140.0 |
| 55° | 1257.5 | 1239.5 | 1221.9 | 1215.2 | 1210.2 | 1213.6 | 1214.0 | 1217.3 |
| 57.5° | 1347.3 | 1322.7 | 1302.2 | 1292.2 | 1287.1 | 1290.5 | 1293.0 | 1296.3 |
| 60° | 1438.1 | 1409.6 | 1385.4 | 1373.7 | 1366.6 | 1371.2 | 1377.0 | 1378.7 |
| 62.5° | 1543.4 | 1504.1 | 1476.9 | 1460.2 | 1456.9 | 1461.5 | 1463.1 | 1468.2 |
| 65° | 1668.0 | 1620.7 | 1583.1 | 1562.6 | 1561.8 | 1564.3 | 1568.1 | 1569.3 |
| 67.5° | 1810.1 | 1757.4 | 1706.9 | 1686.4 | 1678.4 | 1686.0 | 1689.7 | 1694.7 |
| 70° | 2010.8 | 1938.5 | 1865.3 | 1819.7 | 1800.5 | 1794.7 | 1796.3 | 1801.8 |
| 72.5° | 2033.4 | 1955.6 | 1870.3 | 1808.4 | 1774.6 | 1759.1 | 1758.7 | 1759.5 |
| 75° | 1984.0 | 1859.9 | 1799.7 | 1728.6 | 1680.5 | 1655.4 | 1652.1 | 1651.7 |
| 76° | 1959.4 | 1812.6 | 1725.7 | 1669.2 | 1611.5 | 1586.0 | 1582.3 | 1580.2 |
| 77.5° | 1855.3 | 1697.7 | 1566.8 | 1532.5 | 1477.4 | 1445.2 | 1451.9 | 1446.4 |
| 80° | 1487.4 | 1331.0 | 1207.7 | 1111.2 | 1114.1 | 1090.7 | 1081.1 | 1078.1 |
| 82.5° | 876.6 | 748.3 | 612.0 | 532.2 | 456.1 | 436.0 | 375.4 | 361.6 |
| 85° | 280.1 | 198.6 | 120.4 | 87.4 | 59.4 | 49.7 | 38.9 | 35.5 |
| 87.5° | 37.2 | 29.3 | 23.8 | 23.0 | 20.9 | 18.0 | 11.7 | 8.4 |
| 90° | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 100° | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 102.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 |
| 105° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 107.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |



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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 |
| 112.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 |
| 115° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 |
| 117.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 |
| 120° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 |
| 122.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 |
| 125° | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 |
| 127.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 |
| 130° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 132.5° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 135° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 137.5° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 140° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 142.5° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 145° | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 |
| 147.5° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 150° | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 |
| 152.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 |
| 155° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 157.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 |
| 160° | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 |
| 162.5° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 165° | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)