

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: P157664

Luminaire Tested: **VTS-F03-LED-E1-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157664
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-7030
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

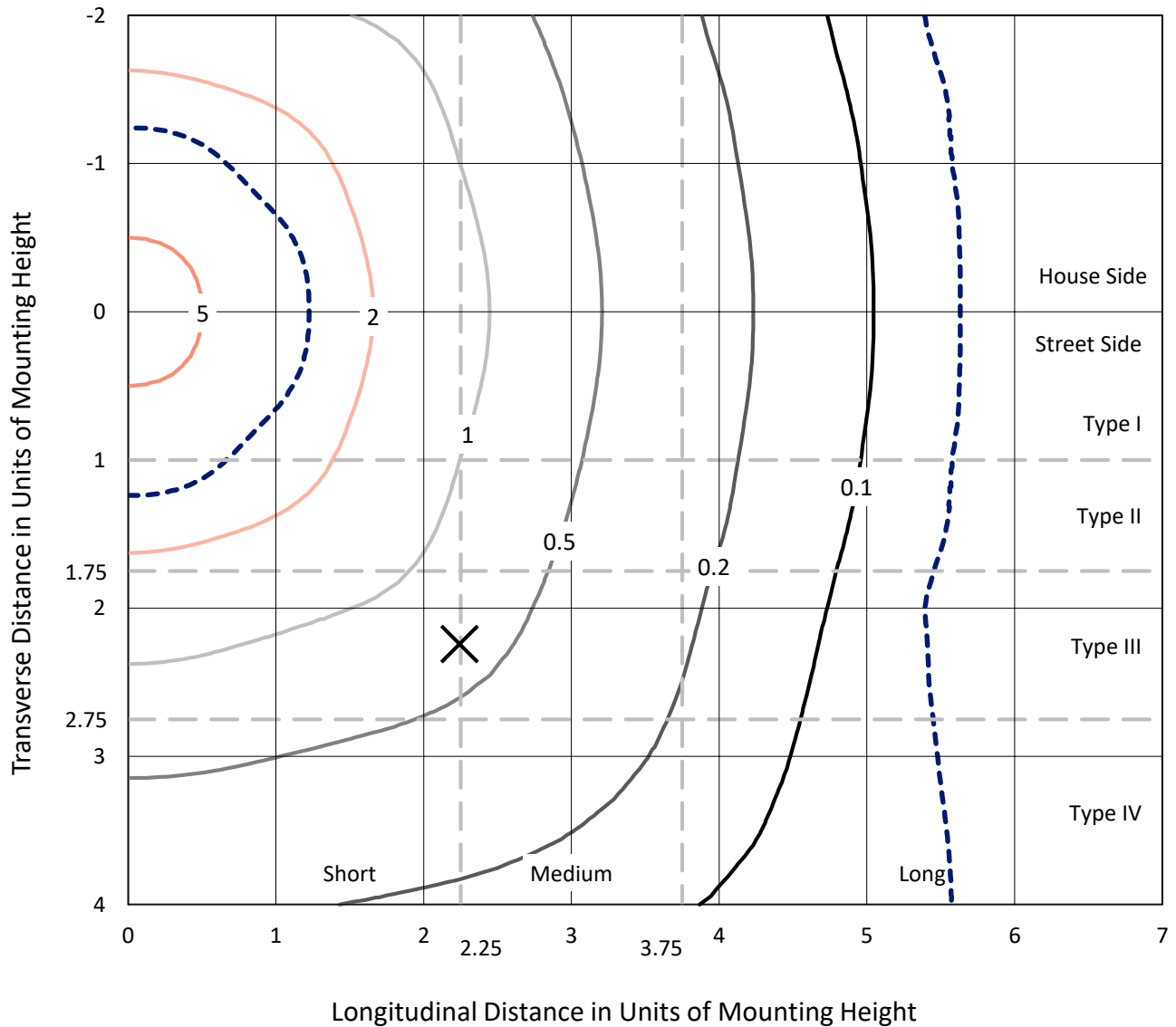
Lumens per Lamp: N/A
Luminaire Lumens: 7153.9 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U1 - G2

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

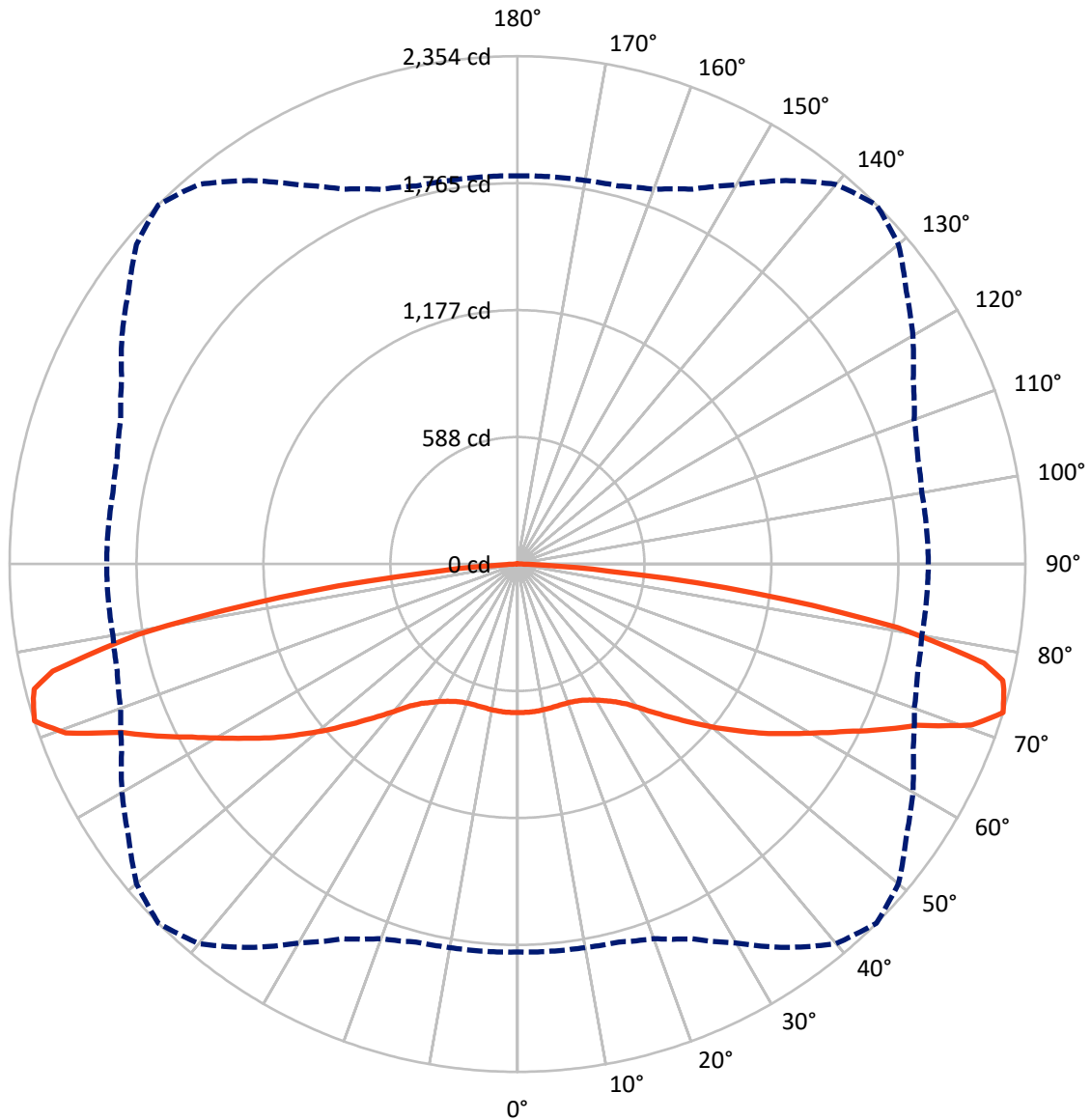
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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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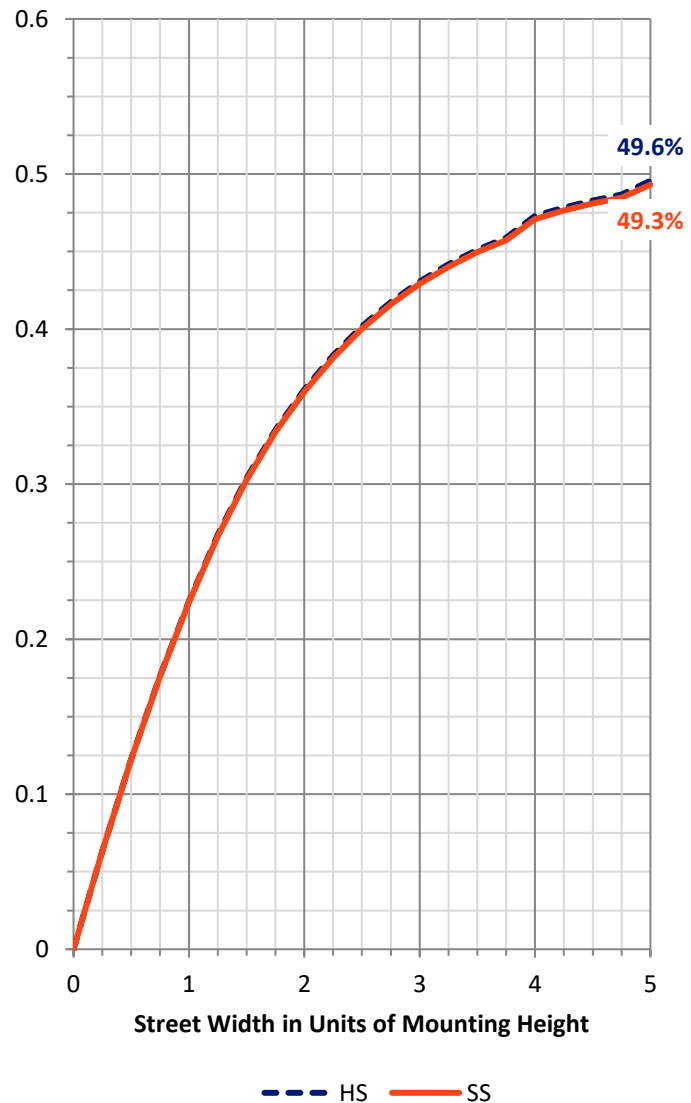
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3575.1 | 1.8 | 3576.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3575.1 | 1.8 | 3576.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7150.2 | 3.6 | 7153.9 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.7 | 0.9 |
| 10°-20° | 194.0 | 2.7 |
| 20°-30° | 324.5 | 4.5 |
| 30°-40° | 493.2 | 6.9 |
| 40°-50° | 781.1 | 10.9 |
| 50°-60° | 1194.8 | 16.7 |
| 60°-70° | 1709.9 | 23.9 |
| 70°-80° | 1956.5 | 27.3 |
| 80°-90° | 430.6 | 6.0 |
| 90°-100° | 0.4 | 0.0 |
| 100°-110° | 0.8 | 0.0 |
| 110°-120° | 0.5 | 0.0 |
| 120°-130° | 0.6 | 0.0 |
| 130°-140° | 0.5 | 0.0 |
| 140°-150° | 0.4 | 0.0 |
| 150°-160° | 0.3 | 0.0 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 7150.2 | 99.9 |
| 0°-180° | 7153.9 | 100.0 |



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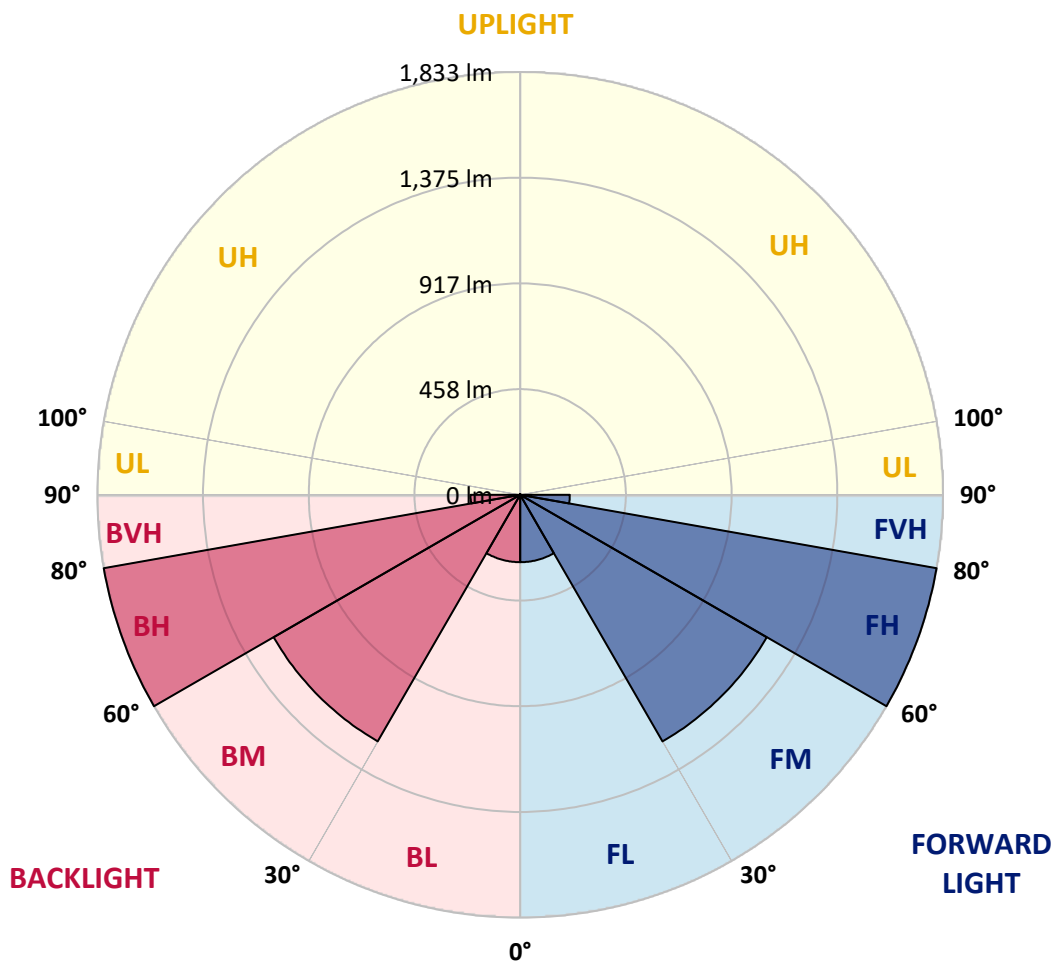
CATALOG NUMBER: VTS-F03-LED-E1-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|-------|---------|
| | | | B | U | G |
| FL (0°-30°) | 292.1 | 4.1 | | | |
| FM (30°-60°) | 1234.5 | 17.3 | | | |
| FH (60°-80°) | 1833.2 | 25.6 | | | G2/5000 |
| FVH (80°-90°) | 215.3 | 3.0 | | | G2/225 |
| BL (0°-30°) | 292.1 | 4.1 | B1/500 | | |
| BM (30°-60°) | 1234.5 | 17.3 | B2/2500 | | |
| BH (60°-80°) | 1833.2 | 25.6 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 215.3 | 3.0 | | | G2/225 |
| UL (90°-100°) | 0.4 | 0.0 | | U1/10 | |
| UH (100°-180°) | 1.8 | 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° | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 |
| 2.5° | 689.0 | 688.1 | 688.5 | 689.5 | 689.0 | 689.0 | 688.5 | 688.5 | 689.5 | 688.5 | 689.0 |
| 5° | 689.5 | 688.5 | 689.0 | 689.5 | 689.0 | 689.5 | 689.0 | 689.0 | 689.0 | 688.5 | 689.5 |
| 7.5° | 687.6 | 687.6 | 688.1 | 688.1 | 687.6 | 688.1 | 688.1 | 688.1 | 687.6 | 687.6 | 688.5 |
| 10° | 686.7 | 686.3 | 686.3 | 686.7 | 686.3 | 686.3 | 686.7 | 686.7 | 685.8 | 685.8 | 686.7 |
| 12.5° | 685.4 | 684.9 | 684.9 | 684.9 | 684.5 | 684.5 | 684.9 | 684.9 | 684.5 | 684.0 | 685.4 |
| 15° | 684.5 | 684.0 | 684.0 | 684.0 | 683.1 | 683.6 | 683.6 | 683.6 | 683.1 | 682.7 | 684.0 |
| 17.5° | 684.0 | 683.6 | 683.6 | 683.6 | 683.1 | 683.1 | 683.1 | 683.1 | 682.7 | 682.7 | 683.6 |
| 20° | 684.9 | 684.9 | 684.9 | 684.9 | 684.5 | 684.5 | 684.5 | 684.9 | 684.9 | 684.9 | 685.8 |
| 22.5° | 687.2 | 687.2 | 687.6 | 688.1 | 688.1 | 689.0 | 689.5 | 689.9 | 689.9 | 690.4 | 691.3 |
| 25° | 693.1 | 693.1 | 693.5 | 694.0 | 695.3 | 696.2 | 698.0 | 699.0 | 699.4 | 699.4 | 699.9 |
| 27.5° | 703.9 | 704.4 | 705.3 | 706.2 | 708.0 | 709.4 | 711.2 | 713.0 | 713.4 | 713.9 | 714.3 |
| 30° | 717.5 | 718.0 | 719.8 | 720.7 | 722.9 | 725.6 | 727.9 | 729.7 | 731.1 | 732.0 | 731.5 |
| 32.5° | 737.0 | 737.9 | 740.1 | 741.5 | 744.6 | 747.4 | 750.5 | 753.2 | 754.6 | 756.0 | 755.5 |
| 35° | 764.1 | 766.4 | 768.6 | 770.0 | 773.1 | 775.4 | 779.5 | 782.2 | 784.9 | 784.0 | 784.5 |
| 37.5° | 804.4 | 806.2 | 806.6 | 807.5 | 810.7 | 812.5 | 817.0 | 820.6 | 822.0 | 822.9 | 823.4 |
| 40° | 858.6 | 858.6 | 860.9 | 859.1 | 863.2 | 863.6 | 869.1 | 874.0 | 875.4 | 879.0 | 876.3 |
| 42.5° | 922.0 | 921.5 | 922.9 | 921.5 | 921.5 | 926.1 | 930.6 | 939.6 | 940.5 | 945.1 | 942.3 |
| 45° | 990.7 | 990.7 | 989.4 | 989.8 | 990.7 | 995.7 | 1001.2 | 1011.1 | 1015.6 | 1018.3 | 1016.5 |
| 47.5° | 1065.4 | 1063.6 | 1063.1 | 1062.7 | 1065.4 | 1070.8 | 1079.0 | 1088.5 | 1099.8 | 1100.7 | 1099.8 |
| 50° | 1140.9 | 1140.5 | 1137.3 | 1140.0 | 1141.8 | 1144.6 | 1159.9 | 1172.6 | 1184.4 | 1191.6 | 1189.3 |
| 52.5° | 1220.6 | 1216.5 | 1216.5 | 1216.5 | 1221.0 | 1229.6 | 1243.2 | 1260.4 | 1276.2 | 1283.9 | 1282.5 |
| 55° | 1301.1 | 1299.7 | 1295.7 | 1293.9 | 1299.7 | 1311.9 | 1331.4 | 1352.2 | 1373.0 | 1384.8 | 1380.3 |
| 57.5° | 1374.8 | 1372.6 | 1373.0 | 1373.5 | 1380.3 | 1396.5 | 1419.2 | 1446.8 | 1469.4 | 1482.0 | 1478.9 |
| 60° | 1432.7 | 1430.0 | 1435.0 | 1436.4 | 1448.6 | 1475.7 | 1511.9 | 1546.7 | 1576.6 | 1589.3 | 1584.3 |
| 62.5° | 1498.3 | 1496.5 | 1499.7 | 1499.2 | 1512.4 | 1542.7 | 1591.1 | 1646.7 | 1692.0 | 1708.2 | 1701.0 |
| 65° | 1604.2 | 1598.8 | 1597.4 | 1592.4 | 1601.0 | 1624.6 | 1673.0 | 1737.7 | 1810.0 | 1851.7 | 1841.7 |
| 67.5° | 1730.9 | 1729.5 | 1725.0 | 1722.3 | 1725.4 | 1754.8 | 1801.4 | 1863.9 | 1937.6 | 1995.1 | 2007.7 |
| 70° | 1814.6 | 1816.4 | 1820.9 | 1827.7 | 1853.9 | 1910.9 | 1996.0 | 2090.5 | 2191.9 | 2234.8 | 2227.1 |
| 72.5° | 1798.7 | 1801.4 | 1805.1 | 1813.7 | 1848.0 | 1916.3 | 2028.5 | 2169.7 | 2296.8 | 2353.8 | 2305.0 |
| 75° | 1721.4 | 1723.6 | 1731.8 | 1744.9 | 1787.0 | 1869.8 | 1990.5 | 2140.3 | 2271.5 | 2328.5 | 2277.4 |
| 76° | 1649.9 | 1657.1 | 1672.1 | 1687.4 | 1738.1 | 1828.1 | 1957.1 | 2116.8 | 2255.6 | 2313.6 | 2264.2 |
| 77.5° | 1487.9 | 1494.3 | 1506.5 | 1533.2 | 1590.6 | 1706.0 | 1856.6 | 2013.6 | 2158.4 | 2210.4 | 2168.8 |
| 80° | 1119.7 | 1125.1 | 1136.4 | 1168.5 | 1218.3 | 1289.8 | 1406.5 | 1559.9 | 1718.7 | 1787.0 | 1759.8 |
| 82.5° | 472.8 | 479.1 | 523.9 | 570.5 | 625.2 | 702.6 | 778.6 | 914.3 | 1031.0 | 1108.8 | 1067.2 |
| 85° | 52.0 | 64.2 | 79.2 | 107.7 | 132.1 | 176.0 | 219.0 | 301.3 | 380.9 | 429.3 | 379.6 |
| 87.5° | 9.0 | 10.4 | 14.9 | 19.0 | 21.3 | 24.4 | 29.4 | 41.2 | 56.1 | 48.4 | 49.3 |
| 90° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.9 | 0.9 | 0.9 | 0.9 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 100° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 |
| 102.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 105° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 107.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.9 | 0.5 |



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CATALOG NUMBER: VTS-F03-LED-E1-5XQ-7030

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 112.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 115° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 117.5° | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 120° | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 122.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 125° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 127.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 130° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 132.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 135° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 137.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 140° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 142.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 145° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.5 |
| 147.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 150° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 |
| 155° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.5 |
| 157.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 160° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 165° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 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-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 | 688.5 |
| 2.5° | 688.5 | 688.5 | 689.5 | 689.0 | 689.0 | 689.5 | 690.4 | 689.9 |
| 5° | 689.0 | 689.5 | 688.5 | 689.0 | 689.5 | 689.5 | 689.9 | 689.5 |
| 7.5° | 688.1 | 688.1 | 688.1 | 688.5 | 689.0 | 688.5 | 689.0 | 689.0 |
| 10° | 686.3 | 686.7 | 686.3 | 687.2 | 687.6 | 687.6 | 688.1 | 688.1 |
| 12.5° | 684.9 | 684.9 | 684.9 | 685.8 | 686.3 | 686.3 | 686.7 | 686.3 |
| 15° | 683.6 | 683.6 | 683.1 | 684.0 | 684.9 | 684.9 | 685.4 | 685.4 |
| 17.5° | 683.1 | 683.1 | 682.7 | 683.6 | 684.5 | 684.5 | 684.9 | 684.9 |
| 20° | 684.5 | 684.9 | 684.0 | 684.9 | 685.8 | 686.3 | 686.3 | 686.3 |
| 22.5° | 689.9 | 689.5 | 688.1 | 688.5 | 689.0 | 689.0 | 689.0 | 689.0 |
| 25° | 698.0 | 697.1 | 695.8 | 695.3 | 694.9 | 694.4 | 694.4 | 694.4 |
| 27.5° | 712.1 | 710.7 | 708.5 | 708.0 | 707.5 | 706.6 | 706.6 | 706.6 |
| 30° | 728.8 | 727.0 | 724.3 | 723.4 | 722.0 | 721.1 | 720.7 | 720.2 |
| 32.5° | 752.8 | 749.2 | 746.0 | 743.7 | 742.4 | 739.7 | 739.2 | 738.3 |
| 35° | 780.4 | 777.7 | 773.1 | 771.8 | 769.5 | 768.2 | 767.7 | 765.5 |
| 37.5° | 818.4 | 815.2 | 811.1 | 810.2 | 809.8 | 808.4 | 808.4 | 808.0 |
| 40° | 871.3 | 868.1 | 864.5 | 860.9 | 861.8 | 862.3 | 862.3 | 860.5 |
| 42.5° | 936.0 | 931.0 | 923.8 | 926.1 | 924.7 | 922.9 | 926.5 | 924.2 |
| 45° | 1009.7 | 1003.0 | 997.5 | 995.3 | 995.3 | 993.0 | 996.6 | 996.6 |
| 47.5° | 1091.6 | 1080.8 | 1070.8 | 1071.3 | 1067.7 | 1068.6 | 1070.8 | 1074.0 |
| 50° | 1178.0 | 1163.6 | 1154.1 | 1149.5 | 1145.9 | 1147.3 | 1151.3 | 1152.3 |
| 52.5° | 1267.6 | 1250.0 | 1237.3 | 1230.5 | 1226.0 | 1227.8 | 1231.0 | 1233.7 |
| 55° | 1360.8 | 1341.4 | 1322.4 | 1315.1 | 1309.7 | 1313.3 | 1313.8 | 1317.4 |
| 57.5° | 1458.1 | 1431.4 | 1409.2 | 1398.4 | 1392.9 | 1396.5 | 1399.3 | 1402.9 |
| 60° | 1556.2 | 1525.5 | 1499.2 | 1486.6 | 1478.9 | 1483.9 | 1490.2 | 1492.0 |
| 62.5° | 1670.2 | 1627.7 | 1598.3 | 1580.2 | 1576.6 | 1581.6 | 1583.4 | 1588.8 |
| 65° | 1805.1 | 1753.9 | 1713.2 | 1691.1 | 1690.2 | 1692.9 | 1696.9 | 1698.3 |
| 67.5° | 1958.9 | 1901.9 | 1847.1 | 1825.0 | 1816.4 | 1824.5 | 1828.6 | 1834.0 |
| 70° | 2176.0 | 2097.8 | 2018.6 | 1969.3 | 1948.5 | 1942.1 | 1943.9 | 1949.8 |
| 72.5° | 2200.5 | 2116.3 | 2024.0 | 1957.1 | 1920.4 | 1903.7 | 1903.2 | 1904.1 |
| 75° | 2147.1 | 2012.7 | 1947.6 | 1870.7 | 1818.6 | 1791.5 | 1787.9 | 1787.4 |
| 76° | 2120.4 | 1961.6 | 1867.5 | 1806.4 | 1744.0 | 1716.4 | 1712.3 | 1710.1 |
| 77.5° | 2007.7 | 1837.2 | 1695.6 | 1658.5 | 1598.8 | 1563.9 | 1571.2 | 1565.3 |
| 80° | 1609.6 | 1440.4 | 1307.0 | 1202.5 | 1205.6 | 1180.3 | 1169.9 | 1166.7 |
| 82.5° | 948.7 | 809.8 | 662.3 | 575.9 | 493.6 | 471.8 | 406.3 | 391.3 |
| 85° | 303.1 | 214.9 | 130.3 | 94.6 | 64.2 | 53.8 | 42.1 | 38.5 |
| 87.5° | 40.3 | 31.7 | 25.8 | 24.9 | 22.6 | 19.5 | 12.7 | 9.0 |
| 90° | 0.5 | 0.5 | 0.5 | 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° | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 100° | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 102.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 |
| 105° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 107.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |



REPORT NUMBER: P157664

CATALOG NUMBER: VTS-F03-LED-E1-5XQ-7030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 |
| 112.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 |
| 115° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 |
| 117.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 |
| 120° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 |
| 122.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 |
| 125° | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 |
| 127.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 |
| 130° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 132.5° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 135° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 137.5° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 140° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 142.5° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 145° | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 |
| 147.5° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 150° | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 |
| 152.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 |
| 155° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 157.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 |
| 160° | 0.5 | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 |
| 162.5° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 165° | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 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)