

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: STREETWORKS

Report Number: P157823

Luminaire Tested: **VST-F08-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157823  
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: STREETWORKS  
Catalog Number: VST-F08-LED-E-U-5XQ-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (56) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17627.7 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U1 - G4

Input Watts (W): 204.4  
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: 28.75 FT

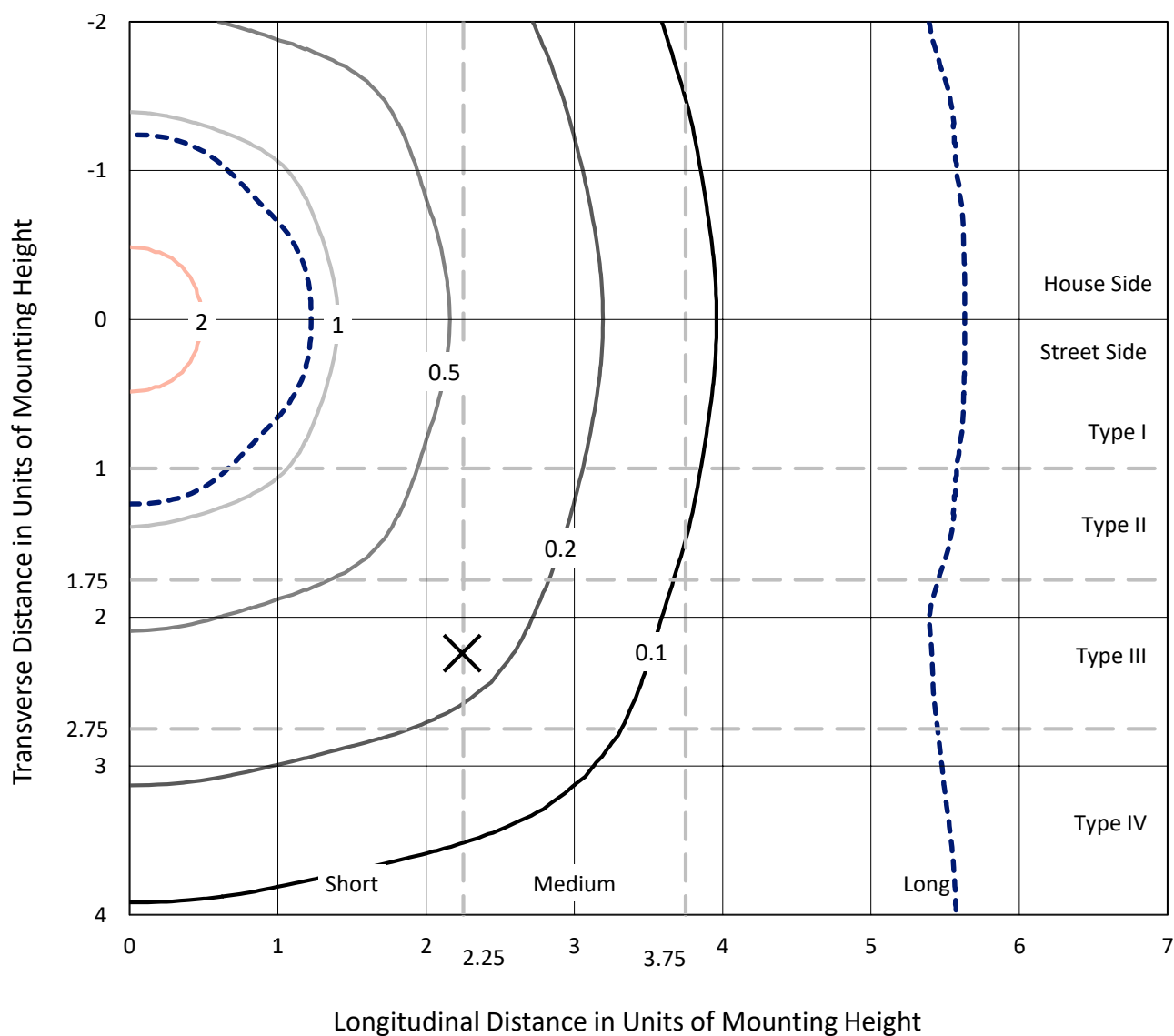


REPORT NUMBER: P157823

CATALOG NUMBER: VST-F08-LED-E-U-5XQ-8030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

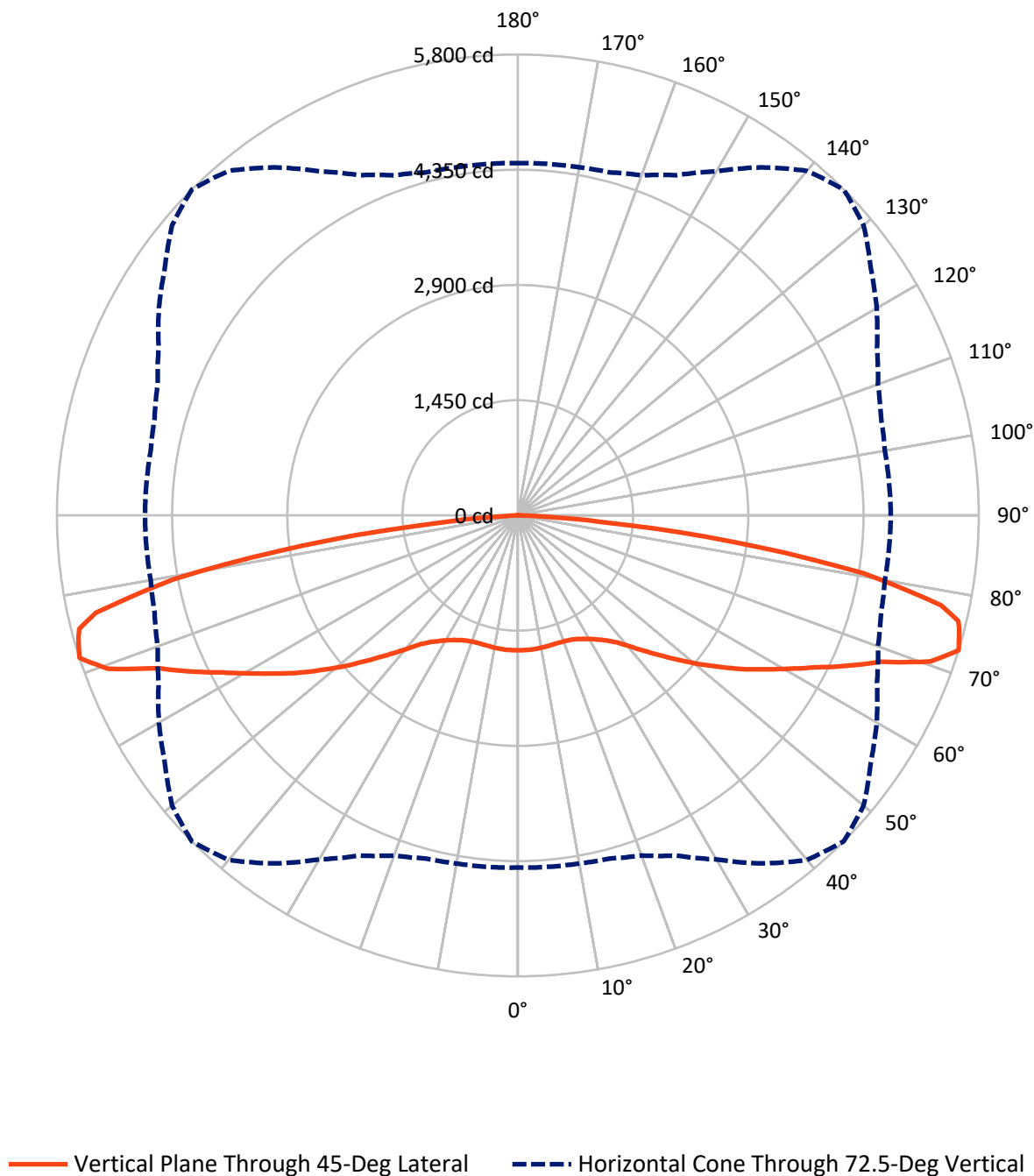


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157823

CATALOG NUMBER: VST-F08-LED-E-U-5XQ-8030

## Luminous Intensity Polar Plot



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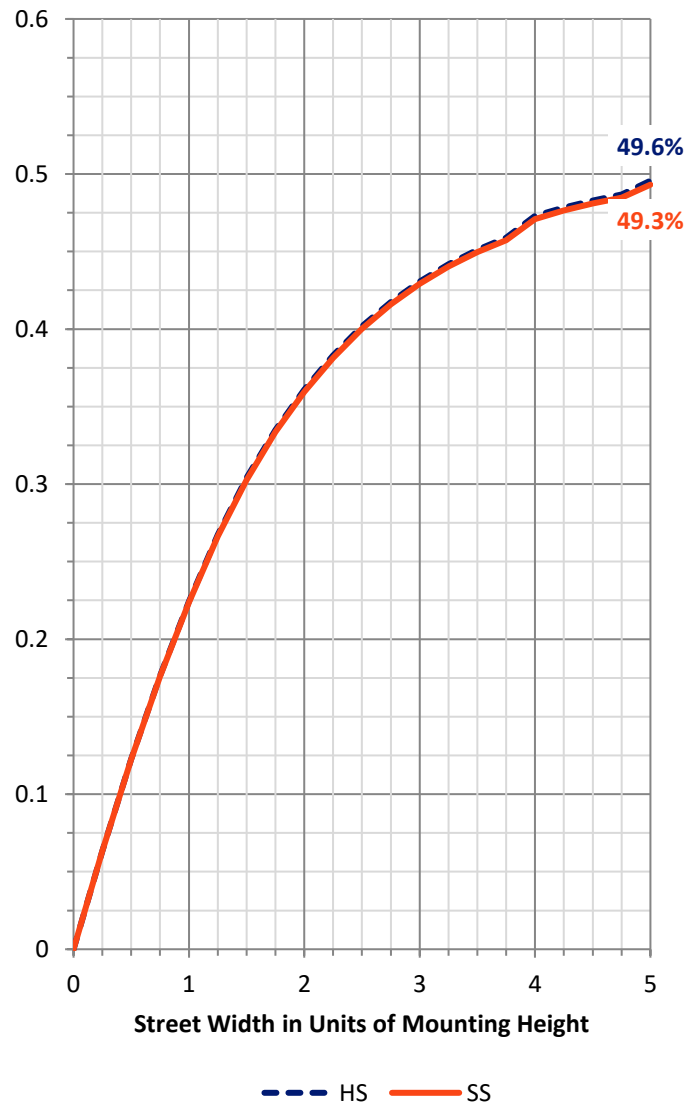
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8809.6   | 4.2    | 8813.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8809.6   | 4.2    | 8813.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 17619.3  | 8.5    | 17627.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 161.9   | 0.9       |
| 10°-20°   | 478.1   | 2.7       |
| 20°-30°   | 799.5   | 4.5       |
| 30°-40°   | 1215.2  | 6.9       |
| 40°-50°   | 1924.7  | 10.9      |
| 50°-60°   | 2944.1  | 16.7      |
| 60°-70°   | 4213.5  | 23.9      |
| 70°-80°   | 4821.2  | 27.3      |
| 80°-90°   | 1061.1  | 6.0       |
| 90°-100°  | 0.9     | 0.0       |
| 100°-110° | 1.8     | 0.0       |
| 110°-120° | 1.2     | 0.0       |
| 120°-130° | 1.4     | 0.0       |
| 130°-140° | 1.3     | 0.0       |
| 140°-150° | 1.0     | 0.0       |
| 150°-160° | 0.7     | 0.0       |
| 160°-170° | 0.3     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 17619.3 | 100.0     |
| 0°-180°   | 17627.7 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P157823

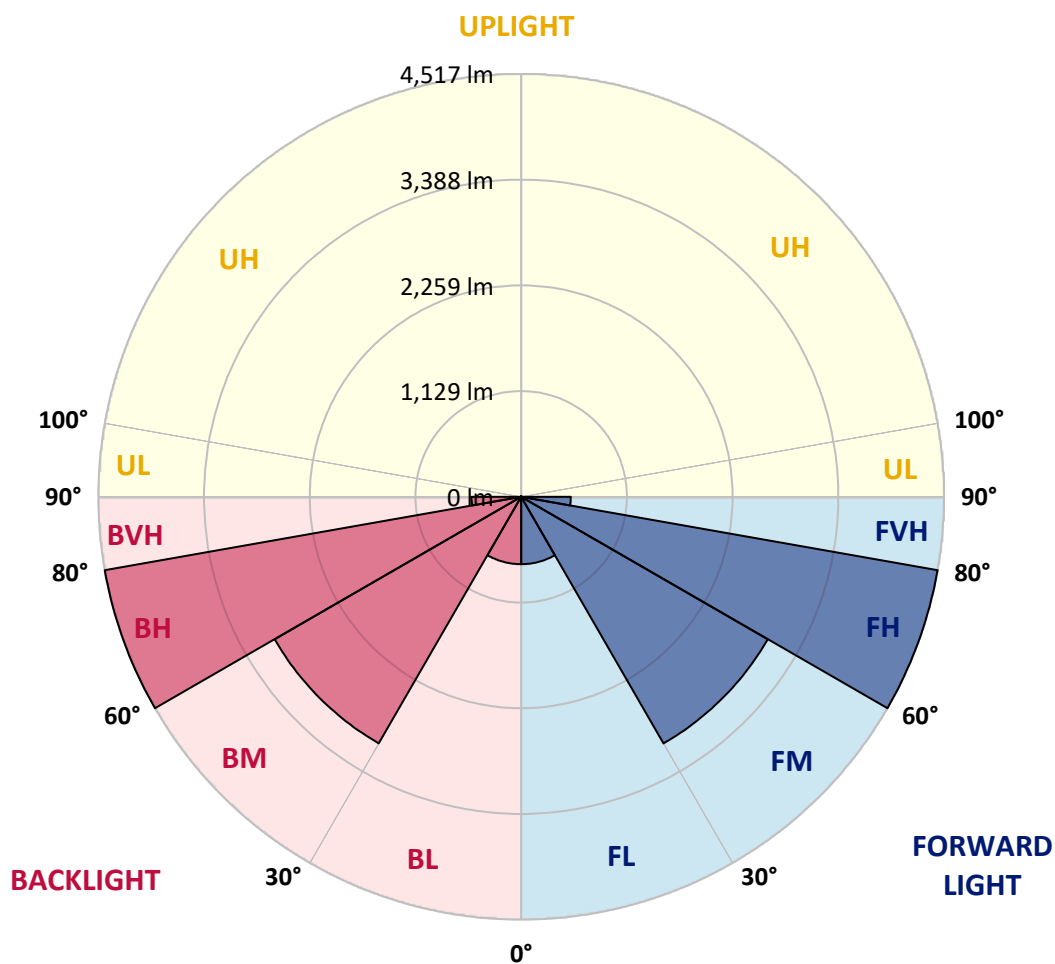
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 719.8  | 4.1       |                         |       |         |
| FM   | (30°-60°)   | 3042.0 | 17.3      |                         |       |         |
| FH   | (60°-80°)   | 4517.3 | 25.6      |                         |       | G2/5000 |
| FVH  | (80°-90°)   | 530.5  | 3.0       |                         |       | G4/750  |
| BL   | (0°-30°)    | 719.8  | 4.1       | B2/1000                 |       |         |
| BM   | (30°-60°)   | 3042.0 | 17.3      | B3/5000                 |       |         |
| BH   | (60°-80°)   | 4517.3 | 25.6      | B4/5000                 |       | G2/5000 |
| BVH  | (80°-90°)   | 530.5  | 3.0       |                         |       | G4/750  |
| UL   | (90°-100°)  | 0.9    | 0.0       |                         | U1/10 |         |
| UH   | (100°-180°) | 4.2    | 0.0       |                         | U1/10 |         |

**BUG Rating: B4-U1-G4**

Type V Short





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CATALOG NUMBER: VST-F08-LED-E-U-5XQ-8030

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 |
| 2.5°   | 1697.8 | 1695.6 | 1696.7 | 1698.9 | 1697.8 | 1697.8 | 1696.7 | 1696.7 | 1698.9 | 1696.7 | 1697.8 |
| 5°     | 1698.9 | 1696.7 | 1697.8 | 1698.9 | 1697.8 | 1698.9 | 1697.8 | 1697.8 | 1697.8 | 1696.7 | 1698.9 |
| 7.5°   | 1694.5 | 1694.5 | 1695.6 | 1695.6 | 1694.5 | 1695.6 | 1695.6 | 1695.6 | 1694.5 | 1694.5 | 1696.7 |
| 10°    | 1692.2 | 1691.1 | 1691.1 | 1692.2 | 1691.1 | 1691.1 | 1692.2 | 1692.2 | 1690.0 | 1690.0 | 1692.2 |
| 12.5°  | 1688.9 | 1687.8 | 1687.8 | 1687.8 | 1686.7 | 1686.7 | 1687.8 | 1687.8 | 1686.7 | 1685.5 | 1688.9 |
| 15°    | 1686.7 | 1685.5 | 1685.5 | 1685.5 | 1683.3 | 1684.4 | 1684.4 | 1684.4 | 1683.3 | 1682.2 | 1685.5 |
| 17.5°  | 1685.5 | 1684.4 | 1684.4 | 1684.4 | 1683.3 | 1683.3 | 1683.3 | 1683.3 | 1682.2 | 1682.2 | 1684.4 |
| 20°    | 1687.8 | 1687.8 | 1687.8 | 1687.8 | 1686.7 | 1686.7 | 1686.7 | 1687.8 | 1687.8 | 1687.8 | 1690.0 |
| 22.5°  | 1693.3 | 1693.3 | 1694.5 | 1695.6 | 1695.6 | 1697.8 | 1698.9 | 1700.0 | 1700.0 | 1701.1 | 1703.4 |
| 25°    | 1707.8 | 1707.8 | 1709.0 | 1710.1 | 1713.4 | 1715.6 | 1720.1 | 1722.3 | 1723.4 | 1723.4 | 1724.6 |
| 27.5°  | 1734.6 | 1735.7 | 1737.9 | 1740.2 | 1744.6 | 1748.0 | 1752.4 | 1756.9 | 1758.0 | 1759.1 | 1760.2 |
| 30°    | 1768.0 | 1769.2 | 1773.6 | 1775.8 | 1781.4 | 1788.1 | 1793.7 | 1798.1 | 1801.5 | 1803.7 | 1802.6 |
| 32.5°  | 1816.0 | 1818.2 | 1823.8 | 1827.1 | 1834.9 | 1841.6 | 1849.4 | 1856.1 | 1859.4 | 1862.8 | 1861.7 |
| 35°    | 1882.9 | 1888.4 | 1894.0 | 1897.4 | 1905.2 | 1910.7 | 1920.8 | 1927.4 | 1934.1 | 1931.9 | 1933.0 |
| 37.5°  | 1982.1 | 1986.5 | 1987.6 | 1989.9 | 1997.7 | 2002.1 | 2013.3 | 2022.2 | 2025.5 | 2027.8 | 2028.9 |
| 40°    | 2115.8 | 2115.8 | 2121.4 | 2117.0 | 2127.0 | 2128.1 | 2141.5 | 2153.7 | 2157.1 | 2166.0 | 2159.3 |
| 42.5°  | 2271.9 | 2270.8 | 2274.1 | 2270.8 | 2270.8 | 2281.9 | 2293.1 | 2315.4 | 2317.6 | 2328.8 | 2322.1 |
| 45°    | 2441.4 | 2441.4 | 2438.0 | 2439.1 | 2441.4 | 2453.6 | 2467.0 | 2491.5 | 2502.7 | 2509.4 | 2504.9 |
| 47.5°  | 2625.3 | 2620.8 | 2619.7 | 2618.6 | 2625.3 | 2638.7 | 2658.7 | 2682.2 | 2710.0 | 2712.3 | 2710.0 |
| 50°    | 2811.5 | 2810.4 | 2802.5 | 2809.2 | 2813.7 | 2820.4 | 2858.3 | 2889.5 | 2918.5 | 2936.3 | 2930.7 |
| 52.5°  | 3007.7 | 2997.6 | 2997.6 | 2997.6 | 3008.8 | 3030.0 | 3063.4 | 3105.8 | 3144.8 | 3163.7 | 3160.4 |
| 55°    | 3206.1 | 3202.8 | 3192.7 | 3188.3 | 3202.8 | 3232.9 | 3280.8 | 3332.1 | 3383.3 | 3412.3 | 3401.2 |
| 57.5°  | 3387.8 | 3382.2 | 3383.3 | 3384.5 | 3401.2 | 3441.3 | 3497.1 | 3565.1 | 3620.8 | 3652.0 | 3644.2 |
| 60°    | 3530.5 | 3523.8 | 3536.1 | 3539.4 | 3569.5 | 3636.4 | 3725.6 | 3811.4 | 3885.0 | 3916.2 | 3903.9 |
| 62.5°  | 3692.1 | 3687.7 | 3695.5 | 3694.4 | 3726.7 | 3801.4 | 3920.7 | 4057.8 | 4169.3 | 4209.4 | 4191.6 |
| 65°    | 3953.0 | 3939.6 | 3936.3 | 3924.0 | 3945.2 | 4003.2 | 4122.4 | 4281.9 | 4460.2 | 4562.8 | 4538.3 |
| 67.5°  | 4265.1 | 4261.8 | 4250.6 | 4244.0 | 4251.8 | 4324.2 | 4439.0 | 4592.9 | 4774.6 | 4916.2 | 4947.4 |
| 70°    | 4471.4 | 4475.8 | 4487.0 | 4503.7 | 4568.4 | 4708.8 | 4918.4 | 5151.4 | 5401.1 | 5507.0 | 5488.0 |
| 72.5°  | 4432.4 | 4439.0 | 4448.0 | 4469.1 | 4553.9 | 4722.2 | 4998.7 | 5346.5 | 5659.7 | 5800.2 | 5679.8 |
| 75°    | 4241.7 | 4247.3 | 4267.4 | 4299.7 | 4403.4 | 4607.4 | 4905.0 | 5274.0 | 5597.3 | 5737.8 | 5611.8 |
| 76°    | 4065.6 | 4083.4 | 4120.2 | 4158.1 | 4283.0 | 4504.8 | 4822.5 | 5216.0 | 5558.3 | 5701.0 | 5579.5 |
| 77.5°  | 3666.5 | 3682.1 | 3712.2 | 3778.0 | 3919.6 | 4203.8 | 4575.0 | 4961.9 | 5318.6 | 5446.8 | 5344.2 |
| 80°    | 2759.1 | 2772.5 | 2800.3 | 2879.5 | 3002.1 | 3178.2 | 3465.8 | 3843.8 | 4235.0 | 4403.4 | 4336.5 |
| 82.5°  | 1164.9 | 1180.5 | 1290.9 | 1405.7 | 1540.6 | 1731.2 | 1918.5 | 2253.0 | 2540.6 | 2732.3 | 2629.8 |
| 85°    | 128.2  | 158.3  | 195.1  | 265.3  | 325.5  | 433.6  | 539.6  | 742.4  | 938.6  | 1057.9 | 935.3  |
| 87.5°  | 22.3   | 25.6   | 36.8   | 46.8   | 52.4   | 60.2   | 72.5   | 101.4  | 138.2  | 119.3  | 121.5  |
| 90°    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 3.3    | 2.2    | 2.2    | 2.2    | 2.2    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 100°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    | 2.2    |
| 102.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 105°   | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 107.5° | 1.1    | 1.1    | 1.1    | 1.1    | 2.2    | 2.2    | 1.1    | 1.1    | 1.1    | 2.2    | 1.1    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 112.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 115°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 117.5° | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 120°   | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 122.5° | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 125°   | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 127.5° | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 130°   | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 132.5° | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 135°   | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 137.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 140°   | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 142.5° | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 145°   | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 1.1 |
| 147.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 150°   | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 152.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 |
| 155°   | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 1.1 |
| 157.5° | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 160°   | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 162.5° | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 165°   | 2.2 | 2.2 | 2.2 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 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 |





REPORT NUMBER: P157823

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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 | 1696.7 |
| 2.5°   | 1696.7 | 1696.7 | 1698.9 | 1697.8 | 1697.8 | 1698.9 | 1701.1 | 1700.0 |
| 5°     | 1697.8 | 1698.9 | 1696.7 | 1697.8 | 1698.9 | 1698.9 | 1700.0 | 1698.9 |
| 7.5°   | 1695.6 | 1695.6 | 1695.6 | 1696.7 | 1697.8 | 1696.7 | 1697.8 | 1697.8 |
| 10°    | 1691.1 | 1692.2 | 1691.1 | 1693.3 | 1694.5 | 1694.5 | 1695.6 | 1695.6 |
| 12.5°  | 1687.8 | 1687.8 | 1687.8 | 1690.0 | 1691.1 | 1691.1 | 1692.2 | 1691.1 |
| 15°    | 1684.4 | 1684.4 | 1683.3 | 1685.5 | 1687.8 | 1687.8 | 1688.9 | 1688.9 |
| 17.5°  | 1683.3 | 1683.3 | 1682.2 | 1684.4 | 1686.7 | 1686.7 | 1687.8 | 1687.8 |
| 20°    | 1686.7 | 1687.8 | 1685.5 | 1687.8 | 1690.0 | 1691.1 | 1691.1 | 1691.1 |
| 22.5°  | 1700.0 | 1698.9 | 1695.6 | 1696.7 | 1697.8 | 1697.8 | 1697.8 | 1697.8 |
| 25°    | 1720.1 | 1717.9 | 1714.5 | 1713.4 | 1712.3 | 1711.2 | 1711.2 | 1711.2 |
| 27.5°  | 1754.7 | 1751.3 | 1745.7 | 1744.6 | 1743.5 | 1741.3 | 1741.3 | 1741.3 |
| 30°    | 1795.9 | 1791.4 | 1784.8 | 1782.5 | 1779.2 | 1777.0 | 1775.8 | 1774.7 |
| 32.5°  | 1855.0 | 1846.1 | 1838.3 | 1832.7 | 1829.3 | 1822.7 | 1821.5 | 1819.3 |
| 35°    | 1923.0 | 1916.3 | 1905.2 | 1901.8 | 1896.2 | 1892.9 | 1891.8 | 1886.2 |
| 37.5°  | 2016.6 | 2008.8 | 1998.8 | 1996.6 | 1995.5 | 1992.1 | 1992.1 | 1991.0 |
| 40°    | 2147.1 | 2139.3 | 2130.3 | 2121.4 | 2123.6 | 2124.8 | 2124.8 | 2120.3 |
| 42.5°  | 2306.5 | 2294.2 | 2276.4 | 2281.9 | 2278.6 | 2274.1 | 2283.1 | 2277.5 |
| 45°    | 2488.2 | 2471.5 | 2458.1 | 2452.5 | 2452.5 | 2446.9 | 2455.9 | 2455.9 |
| 47.5°  | 2690.0 | 2663.2 | 2638.7 | 2639.8 | 2630.9 | 2633.1 | 2638.7 | 2646.5 |
| 50°    | 2902.9 | 2867.2 | 2843.8 | 2832.6 | 2823.7 | 2827.1 | 2837.1 | 2839.3 |
| 52.5°  | 3123.6 | 3080.1 | 3048.9 | 3032.2 | 3021.0 | 3025.5 | 3033.3 | 3040.0 |
| 55°    | 3353.2 | 3305.3 | 3258.5 | 3240.7 | 3227.3 | 3236.2 | 3237.3 | 3246.2 |
| 57.5°  | 3592.9 | 3527.2 | 3472.5 | 3445.8 | 3432.4 | 3441.3 | 3448.0 | 3456.9 |
| 60°    | 3834.8 | 3759.0 | 3694.4 | 3663.2 | 3644.2 | 3656.5 | 3672.1 | 3676.5 |
| 62.5°  | 4115.8 | 4011.0 | 3938.5 | 3893.9 | 3885.0 | 3897.3 | 3901.7 | 3915.1 |
| 65°    | 4448.0 | 4322.0 | 4221.7 | 4167.0 | 4164.8 | 4171.5 | 4181.5 | 4184.9 |
| 67.5°  | 4827.0 | 4686.5 | 4551.6 | 4497.0 | 4475.8 | 4495.9 | 4505.9 | 4519.3 |
| 70°    | 5362.1 | 5169.2 | 4974.1 | 4852.6 | 4801.3 | 4785.7 | 4790.2 | 4804.7 |
| 72.5°  | 5422.3 | 5214.9 | 4987.5 | 4822.5 | 4732.2 | 4691.0 | 4689.9 | 4692.1 |
| 75°    | 5290.7 | 4959.6 | 4799.1 | 4609.6 | 4481.4 | 4414.5 | 4405.6 | 4404.5 |
| 76°    | 5225.0 | 4833.7 | 4601.8 | 4451.3 | 4297.5 | 4229.5 | 4219.4 | 4213.9 |
| 77.5°  | 4947.4 | 4527.1 | 4178.2 | 4086.8 | 3939.6 | 3853.8 | 3871.6 | 3857.1 |
| 80°    | 3966.4 | 3549.4 | 3220.6 | 2963.1 | 2970.9 | 2908.5 | 2882.8 | 2875.0 |
| 82.5°  | 2337.7 | 1995.5 | 1632.0 | 1419.1 | 1216.2 | 1162.7 | 1001.1 | 964.3  |
| 85°    | 746.9  | 529.5  | 321.1  | 233.0  | 158.3  | 132.7  | 103.7  | 94.8   |
| 87.5°  | 99.2   | 78.0   | 63.5   | 61.3   | 55.7   | 47.9   | 31.2   | 22.3   |
| 90°    | 1.1    | 1.1    | 1.1    | 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°    | 1.1    | 1.1    | 1.1    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 100°   | 2.2    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    |
| 102.5° | 2.2    | 2.2    | 2.2    | 2.2    | 1.1    | 1.1    | 1.1    | 1.1    |
| 105°   | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |
| 107.5° | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    |



REPORT NUMBER: P157823

CATALOG NUMBER: VST-F08-LED-E-U-5XQ-8030

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 |
| 112.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 |
| 115°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 |
| 117.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 |
| 120°   | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 |
| 122.5° | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 125°   | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 127.5° | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 130°   | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 132.5° | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 135°   | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 137.5° | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 140°   | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 142.5° | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 145°   | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 147.5° | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 150°   | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 152.5° | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 155°   | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 157.5° | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 160°   | 1.1 | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 |
| 162.5° | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 165°   | 1.1 | 1.1 | 1.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 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)