

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: P157792

Luminaire Tested: **VST-E05-LED-E-U-5XQ-7060**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P157792  
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-E05-LED-E-U-5XQ-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (105) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 16225.7 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U1 - G3

Input Watts (W): 127.3  
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: 28.75 FT

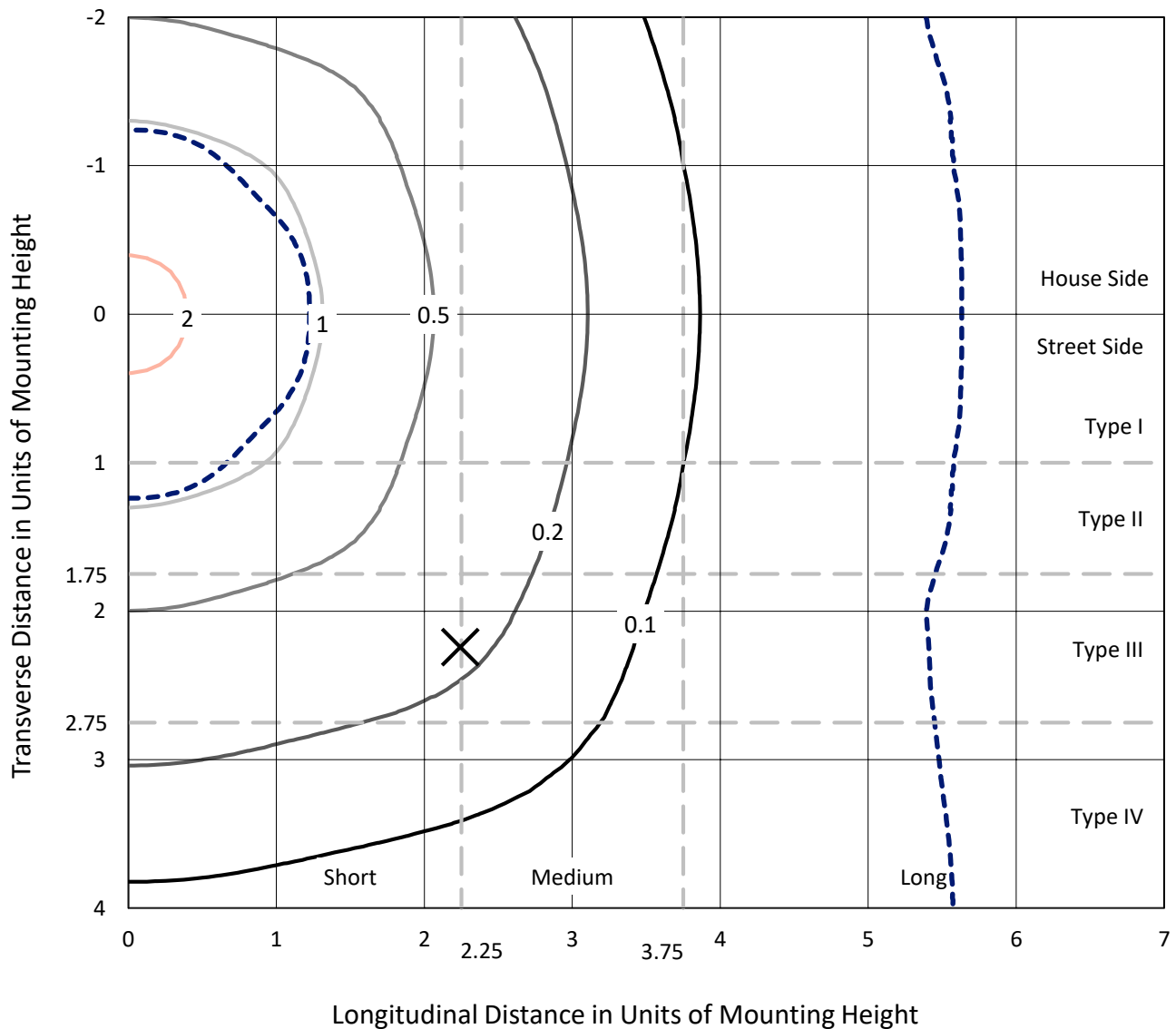


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

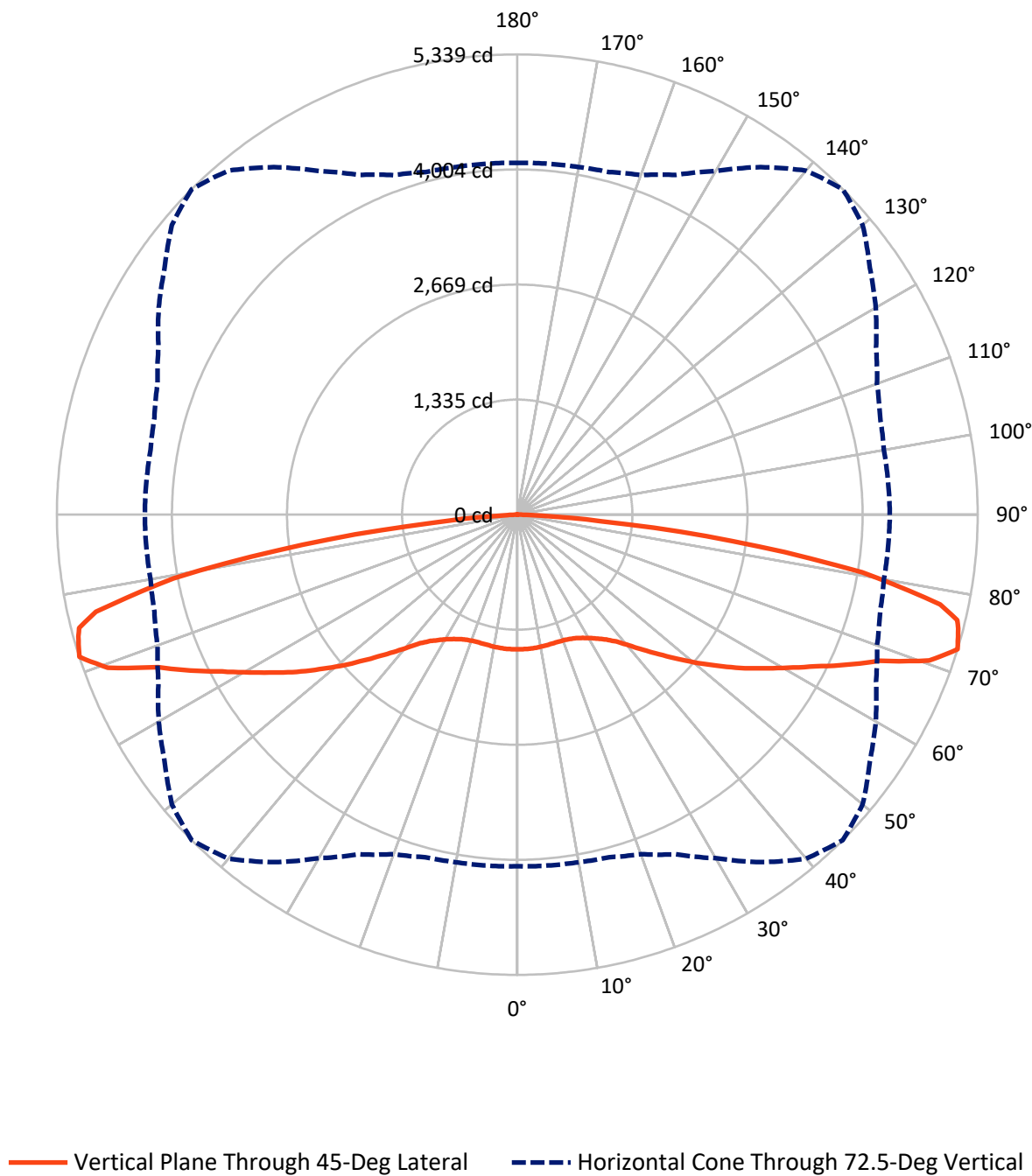


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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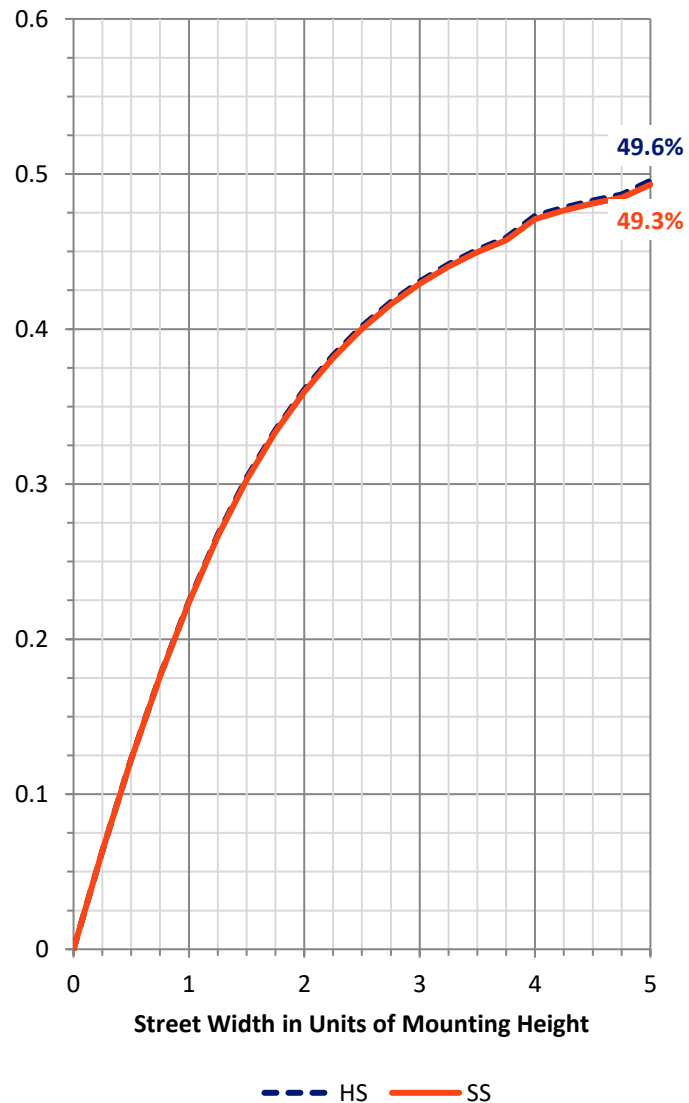
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8108.9   | 4.0    | 8112.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 8108.9   | 4.0    | 8112.9  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 16217.8  | 7.9    | 16225.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 149.0   | 0.9       |
| 10°-20°   | 440.1   | 2.7       |
| 20°-30°   | 735.9   | 4.5       |
| 30°-40°   | 1118.6  | 6.9       |
| 40°-50°   | 1771.6  | 10.9      |
| 50°-60°   | 2709.9  | 16.7      |
| 60°-70°   | 3878.4  | 23.9      |
| 70°-80°   | 4437.7  | 27.3      |
| 80°-90°   | 976.7   | 6.0       |
| 90°-100°  | 0.8     | 0.0       |
| 100°-110° | 1.7     | 0.0       |
| 110°-120° | 1.1     | 0.0       |
| 120°-130° | 1.3     | 0.0       |
| 130°-140° | 1.2     | 0.0       |
| 140°-150° | 0.9     | 0.0       |
| 150°-160° | 0.6     | 0.0       |
| 160°-170° | 0.3     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 16217.8 | 100.0     |
| 0°-180°   | 16225.7 | 100.0     |

**Coefficient of Utilization**



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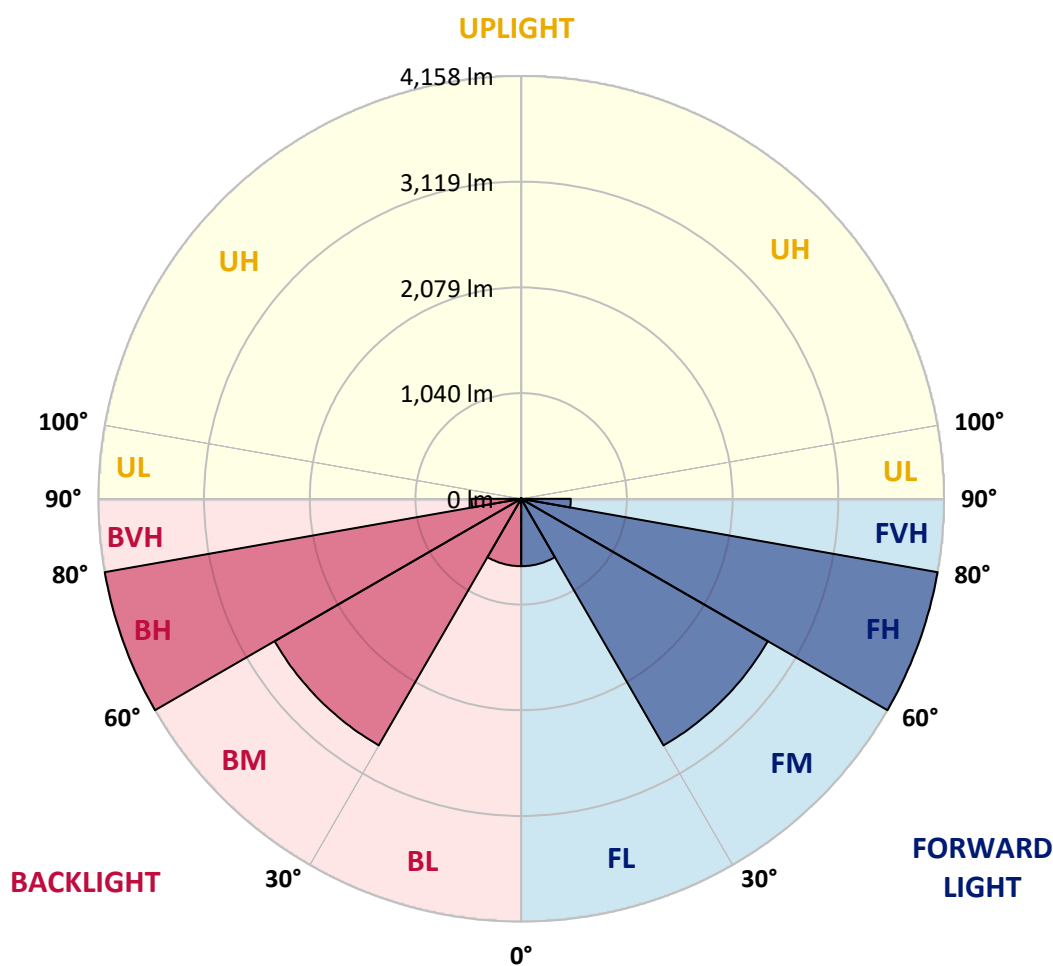
CATALOG NUMBER: VST-E05-LED-E-U-5XQ-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 662.5  | 4.1       |                         |       |         |
| FM   | (30°-60°)   | 2800.0 | 17.3      |                         |       |         |
| FH   | (60°-80°)   | 4158.0 | 25.6      |                         |       | G2/5000 |
| FVH  | (80°-90°)   | 488.3  | 3.0       |                         |       | G3/500  |
| BL   | (0°-30°)    | 662.5  | 4.1       | B2/1000                 |       |         |
| BM   | (30°-60°)   | 2800.0 | 17.3      | B3/5000                 |       |         |
| BH   | (60°-80°)   | 4158.0 | 25.6      | B4/5000                 |       | G2/5000 |
| BVH  | (80°-90°)   | 488.3  | 3.0       |                         |       | G3/500  |
| UL   | (90°-100°)  | 0.8    | 0.0       |                         | U1/10 |         |
| UH   | (100°-180°) | 4.0    | 0.0       |                         | U1/10 |         |

**BUG Rating: B4-U1-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 |
| 2.5°   | 1562.8 | 1560.7 | 1561.7 | 1563.8 | 1562.8 | 1562.8 | 1561.7 | 1561.7 | 1563.8 | 1561.7 | 1562.8 |
| 5°     | 1563.8 | 1561.7 | 1562.8 | 1563.8 | 1562.8 | 1563.8 | 1562.8 | 1562.8 | 1562.8 | 1561.7 | 1563.8 |
| 7.5°   | 1559.7 | 1559.7 | 1560.7 | 1560.7 | 1559.7 | 1560.7 | 1560.7 | 1560.7 | 1559.7 | 1559.7 | 1561.7 |
| 10°    | 1557.6 | 1556.6 | 1556.6 | 1557.6 | 1556.6 | 1556.6 | 1557.6 | 1557.6 | 1555.6 | 1555.6 | 1557.6 |
| 12.5°  | 1554.5 | 1553.5 | 1553.5 | 1553.5 | 1552.5 | 1552.5 | 1553.5 | 1553.5 | 1552.5 | 1551.5 | 1554.5 |
| 15°    | 1552.5 | 1551.5 | 1551.5 | 1551.5 | 1549.4 | 1550.4 | 1550.4 | 1550.4 | 1549.4 | 1548.4 | 1551.5 |
| 17.5°  | 1551.5 | 1550.4 | 1550.4 | 1550.4 | 1549.4 | 1549.4 | 1549.4 | 1549.4 | 1548.4 | 1548.4 | 1550.4 |
| 20°    | 1553.5 | 1553.5 | 1553.5 | 1553.5 | 1552.5 | 1552.5 | 1552.5 | 1553.5 | 1553.5 | 1553.5 | 1555.6 |
| 22.5°  | 1558.7 | 1558.7 | 1559.7 | 1560.7 | 1560.7 | 1562.8 | 1563.8 | 1564.8 | 1564.8 | 1565.8 | 1567.9 |
| 25°    | 1572.0 | 1572.0 | 1573.0 | 1574.0 | 1577.1 | 1579.2 | 1583.3 | 1585.3 | 1586.4 | 1586.4 | 1587.4 |
| 27.5°  | 1596.6 | 1597.6 | 1599.7 | 1601.8 | 1605.9 | 1608.9 | 1613.0 | 1617.1 | 1618.2 | 1619.2 | 1620.2 |
| 30°    | 1627.4 | 1628.4 | 1632.5 | 1634.6 | 1639.7 | 1645.9 | 1651.0 | 1655.1 | 1658.2 | 1660.2 | 1659.2 |
| 32.5°  | 1671.5 | 1673.6 | 1678.7 | 1681.8 | 1689.0 | 1695.1 | 1702.3 | 1708.5 | 1711.5 | 1714.6 | 1713.6 |
| 35°    | 1733.1 | 1738.2 | 1743.4 | 1746.4 | 1753.6 | 1758.7 | 1768.0 | 1774.1 | 1780.3 | 1778.2 | 1779.3 |
| 37.5°  | 1824.4 | 1828.5 | 1829.5 | 1831.6 | 1838.8 | 1842.9 | 1853.1 | 1861.4 | 1864.4 | 1866.5 | 1867.5 |
| 40°    | 1947.5 | 1947.5 | 1952.7 | 1948.6 | 1957.8 | 1958.8 | 1971.1 | 1982.4 | 1985.5 | 1993.7 | 1987.6 |
| 42.5°  | 2091.2 | 2090.2 | 2093.3 | 2090.2 | 2090.2 | 2100.4 | 2110.7 | 2131.2 | 2133.3 | 2143.5 | 2137.4 |
| 45°    | 2247.2 | 2247.2 | 2244.1 | 2245.1 | 2247.2 | 2258.5 | 2270.8 | 2293.3 | 2303.6 | 2309.8 | 2305.7 |
| 47.5°  | 2416.5 | 2412.4 | 2411.3 | 2410.3 | 2416.5 | 2428.8 | 2447.3 | 2468.8 | 2494.5 | 2496.5 | 2494.5 |
| 50°    | 2587.8 | 2586.8 | 2579.6 | 2585.8 | 2589.9 | 2596.0 | 2630.9 | 2659.7 | 2686.3 | 2702.8 | 2697.6 |
| 52.5°  | 2768.4 | 2759.2 | 2759.2 | 2759.2 | 2769.5 | 2789.0 | 2819.7 | 2858.7 | 2894.6 | 2912.1 | 2909.0 |
| 55°    | 2951.1 | 2948.0 | 2938.8 | 2934.7 | 2948.0 | 2975.7 | 3019.8 | 3067.0 | 3114.2 | 3140.9 | 3130.6 |
| 57.5°  | 3118.3 | 3113.2 | 3114.2 | 3115.3 | 3130.6 | 3167.6 | 3218.9 | 3281.5 | 3332.8 | 3361.5 | 3354.3 |
| 60°    | 3249.7 | 3243.5 | 3254.8 | 3257.9 | 3285.6 | 3347.2 | 3429.2 | 3508.3 | 3576.0 | 3604.7 | 3593.4 |
| 62.5°  | 3398.5 | 3394.4 | 3401.5 | 3400.5 | 3430.3 | 3499.0 | 3608.8 | 3735.0 | 3837.6 | 3874.6 | 3858.2 |
| 65°    | 3638.6 | 3626.3 | 3623.2 | 3611.9 | 3631.4 | 3684.7 | 3794.5 | 3941.3 | 4105.4 | 4199.8 | 4177.3 |
| 67.5°  | 3925.9 | 3922.8 | 3912.5 | 3906.4 | 3913.6 | 3980.3 | 4086.0 | 4227.6 | 4394.8 | 4525.1 | 4553.9 |
| 70°    | 4115.7 | 4119.8 | 4130.1 | 4145.5 | 4205.0 | 4334.3 | 4527.2 | 4741.6 | 4971.5 | 5069.0 | 5051.5 |
| 72.5°  | 4079.8 | 4086.0 | 4094.2 | 4113.7 | 4191.6 | 4346.6 | 4601.1 | 4921.2 | 5209.5 | 5338.8 | 5228.0 |
| 75°    | 3904.3 | 3909.5 | 3927.9 | 3957.7 | 4053.1 | 4240.9 | 4514.9 | 4854.5 | 5152.1 | 5281.4 | 5165.4 |
| 76°    | 3742.2 | 3758.6 | 3792.5 | 3827.4 | 3942.3 | 4146.5 | 4438.9 | 4801.1 | 5116.2 | 5247.5 | 5135.7 |
| 77.5°  | 3374.9 | 3389.2 | 3416.9 | 3477.5 | 3607.8 | 3869.4 | 4211.1 | 4567.2 | 4895.5 | 5013.6 | 4919.1 |
| 80°    | 2539.6 | 2551.9 | 2577.6 | 2650.4 | 2763.3 | 2925.4 | 3190.2 | 3538.0 | 3898.2 | 4053.1 | 3991.6 |
| 82.5°  | 1072.3 | 1086.6 | 1188.2 | 1293.9 | 1418.1 | 1593.5 | 1765.9 | 2073.8 | 2338.5 | 2515.0 | 2420.6 |
| 85°    | 118.0  | 145.7  | 179.6  | 244.2  | 299.6  | 399.2  | 496.6  | 683.4  | 864.0  | 973.8  | 860.9  |
| 87.5°  | 20.5   | 23.6   | 33.9   | 43.1   | 48.2   | 55.4   | 66.7   | 93.4   | 127.2  | 109.8  | 111.8  |
| 90°    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 100°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    | 2.1    |
| 102.5° | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 105°   | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 107.5° | 1.0    | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    | 1.0    | 1.0    | 1.0    | 2.1    | 1.0    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 112.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 115°   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 117.5° | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 120°   | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 122.5° | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 125°   | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 127.5° | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 130°   | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 132.5° | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 135°   | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 137.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 140°   | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 142.5° | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 145°   | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 1.0 |
| 147.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 150°   | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 |
| 155°   | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 1.0 |
| 157.5° | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 2.1 | 2.1 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 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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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 | 1561.7 |
| 2.5°   | 1561.7 | 1561.7 | 1563.8 | 1562.8 | 1562.8 | 1563.8 | 1565.8 | 1564.8 |
| 5°     | 1562.8 | 1563.8 | 1561.7 | 1562.8 | 1563.8 | 1563.8 | 1564.8 | 1563.8 |
| 7.5°   | 1560.7 | 1560.7 | 1560.7 | 1561.7 | 1562.8 | 1561.7 | 1562.8 | 1562.8 |
| 10°    | 1556.6 | 1557.6 | 1556.6 | 1558.7 | 1559.7 | 1559.7 | 1560.7 | 1560.7 |
| 12.5°  | 1553.5 | 1553.5 | 1553.5 | 1555.6 | 1556.6 | 1556.6 | 1557.6 | 1556.6 |
| 15°    | 1550.4 | 1550.4 | 1549.4 | 1551.5 | 1553.5 | 1553.5 | 1554.5 | 1554.5 |
| 17.5°  | 1549.4 | 1549.4 | 1548.4 | 1550.4 | 1552.5 | 1552.5 | 1553.5 | 1553.5 |
| 20°    | 1552.5 | 1553.5 | 1551.5 | 1553.5 | 1555.6 | 1556.6 | 1556.6 | 1556.6 |
| 22.5°  | 1564.8 | 1563.8 | 1560.7 | 1561.7 | 1562.8 | 1562.8 | 1562.8 | 1562.8 |
| 25°    | 1583.3 | 1581.2 | 1578.2 | 1577.1 | 1576.1 | 1575.1 | 1575.1 | 1575.1 |
| 27.5°  | 1615.1 | 1612.0 | 1606.9 | 1605.9 | 1604.8 | 1602.8 | 1602.8 | 1602.8 |
| 30°    | 1653.1 | 1649.0 | 1642.8 | 1640.7 | 1637.7 | 1635.6 | 1634.6 | 1633.6 |
| 32.5°  | 1707.4 | 1699.2 | 1692.0 | 1686.9 | 1683.8 | 1677.7 | 1676.7 | 1674.6 |
| 35°    | 1770.0 | 1763.9 | 1753.6 | 1750.5 | 1745.4 | 1742.3 | 1741.3 | 1736.2 |
| 37.5°  | 1856.2 | 1849.0 | 1839.8 | 1837.8 | 1836.7 | 1833.7 | 1833.7 | 1832.6 |
| 40°    | 1976.3 | 1969.1 | 1960.9 | 1952.7 | 1954.7 | 1955.8 | 1955.8 | 1951.7 |
| 42.5°  | 2123.0 | 2111.7 | 2095.3 | 2100.4 | 2097.4 | 2093.3 | 2101.5 | 2096.3 |
| 45°    | 2290.3 | 2274.9 | 2262.6 | 2257.4 | 2257.4 | 2252.3 | 2260.5 | 2260.5 |
| 47.5°  | 2476.0 | 2451.4 | 2428.8 | 2429.8 | 2421.6 | 2423.7 | 2428.8 | 2436.0 |
| 50°    | 2672.0 | 2639.1 | 2617.6 | 2607.3 | 2599.1 | 2602.2 | 2611.4 | 2613.5 |
| 52.5°  | 2875.1 | 2835.1 | 2806.4 | 2791.0 | 2780.7 | 2784.9 | 2792.0 | 2798.2 |
| 55°    | 3086.5 | 3042.4 | 2999.3 | 2982.9 | 2970.6 | 2978.8 | 2979.8 | 2988.0 |
| 57.5°  | 3307.1 | 3246.6 | 3196.3 | 3171.7 | 3159.4 | 3167.6 | 3173.7 | 3182.0 |
| 60°    | 3529.8 | 3460.0 | 3400.5 | 3371.8 | 3354.3 | 3365.6 | 3380.0 | 3384.1 |
| 62.5°  | 3788.4 | 3691.9 | 3625.2 | 3584.2 | 3576.0 | 3587.3 | 3591.4 | 3603.7 |
| 65°    | 4094.2 | 3978.2 | 3885.9 | 3835.6 | 3833.5 | 3839.7 | 3848.9 | 3852.0 |
| 67.5°  | 4443.0 | 4313.7 | 4189.6 | 4139.3 | 4119.8 | 4138.3 | 4147.5 | 4159.8 |
| 70°    | 4935.6 | 4758.1 | 4578.5 | 4466.6 | 4419.4 | 4405.1 | 4409.2 | 4422.5 |
| 72.5°  | 4991.0 | 4800.1 | 4590.8 | 4438.9 | 4355.8 | 4317.9 | 4316.8 | 4318.9 |
| 75°    | 4869.9 | 4565.1 | 4417.4 | 4242.9 | 4124.9 | 4063.4 | 4055.2 | 4054.1 |
| 76°    | 4809.4 | 4449.2 | 4235.8 | 4097.2 | 3955.6 | 3893.0 | 3883.8 | 3878.7 |
| 77.5°  | 4553.9 | 4167.0 | 3845.8 | 3761.7 | 3626.3 | 3547.2 | 3563.7 | 3550.3 |
| 80°    | 3650.9 | 3267.1 | 2964.4 | 2727.4 | 2734.6 | 2677.1 | 2653.5 | 2646.3 |
| 82.5°  | 2151.7 | 1836.7 | 1502.2 | 1306.2 | 1119.5 | 1070.2 | 921.4  | 887.6  |
| 85°    | 687.5  | 487.4  | 295.5  | 214.5  | 145.7  | 122.1  | 95.4   | 87.2   |
| 87.5°  | 91.3   | 71.8   | 58.5   | 56.4   | 51.3   | 44.1   | 28.7   | 20.5   |
| 90°    | 1.0    | 1.0    | 1.0    | 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°    | 1.0    | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 100°   | 2.1    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 102.5° | 2.1    | 2.1    | 2.1    | 2.1    | 1.0    | 1.0    | 1.0    | 1.0    |
| 105°   | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |
| 107.5° | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    | 2.1    |



REPORT NUMBER: P157792

CATALOG NUMBER: VST-E05-LED-E-U-5XQ-7060

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 |
| 112.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 |
| 115°   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 |
| 117.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 |
| 120°   | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 |
| 122.5° | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 125°   | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 127.5° | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 130°   | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 132.5° | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 135°   | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 137.5° | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 140°   | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 142.5° | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 145°   | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 147.5° | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 150°   | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 152.5° | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 155°   | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 157.5° | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 160°   | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 |
| 162.5° | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 165°   | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 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)