

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: P157780

Luminaire Tested: **VST-E04-LED-E-U-5XQ**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P157780  
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-E04-LED-E-U-5XQ  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12650.3 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U1 - G3

Input Watts (W): 97.2  
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

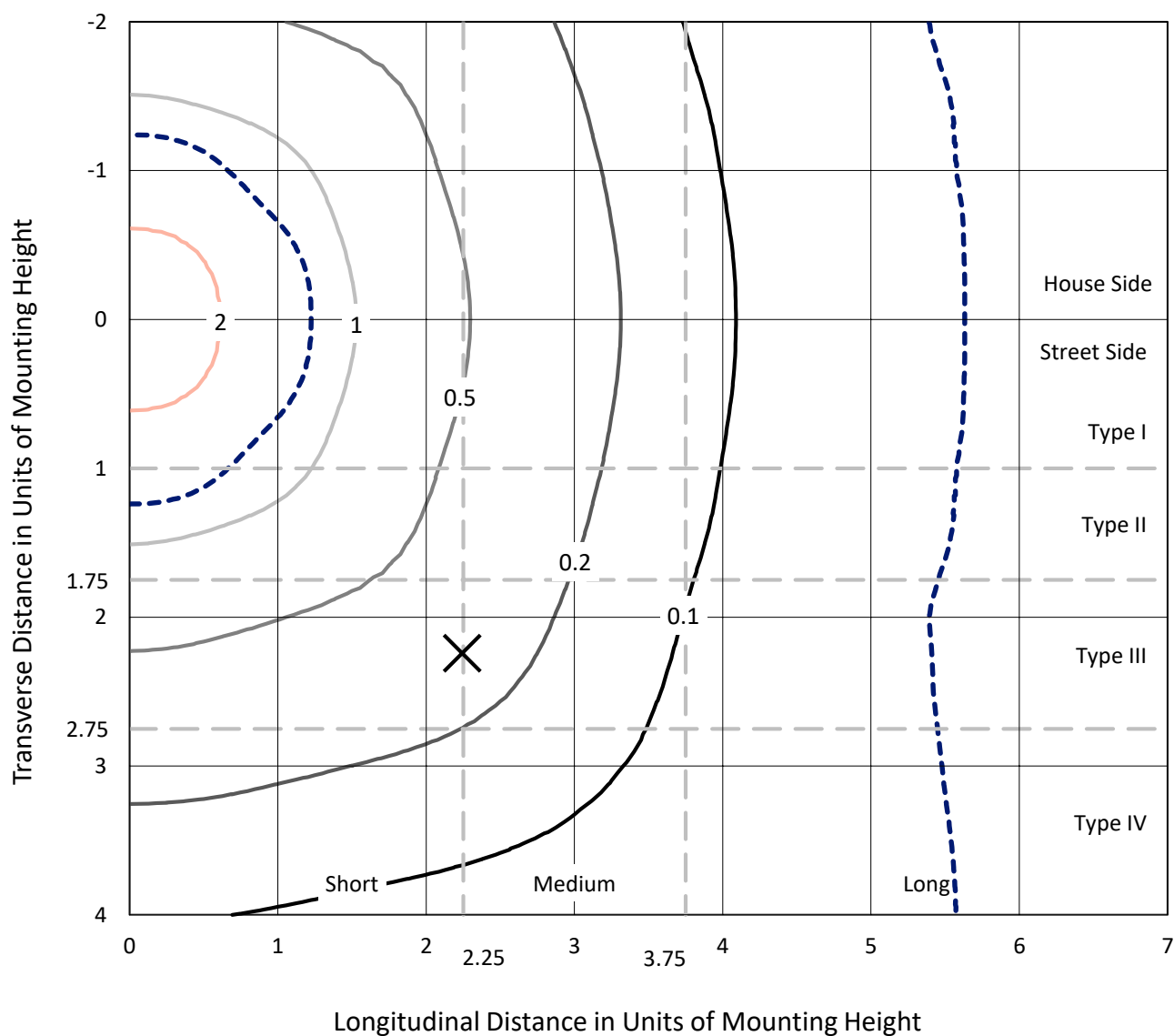


REPORT NUMBER: P157780

CATALOG NUMBER: VST-E04-LED-E-U-5XQ

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

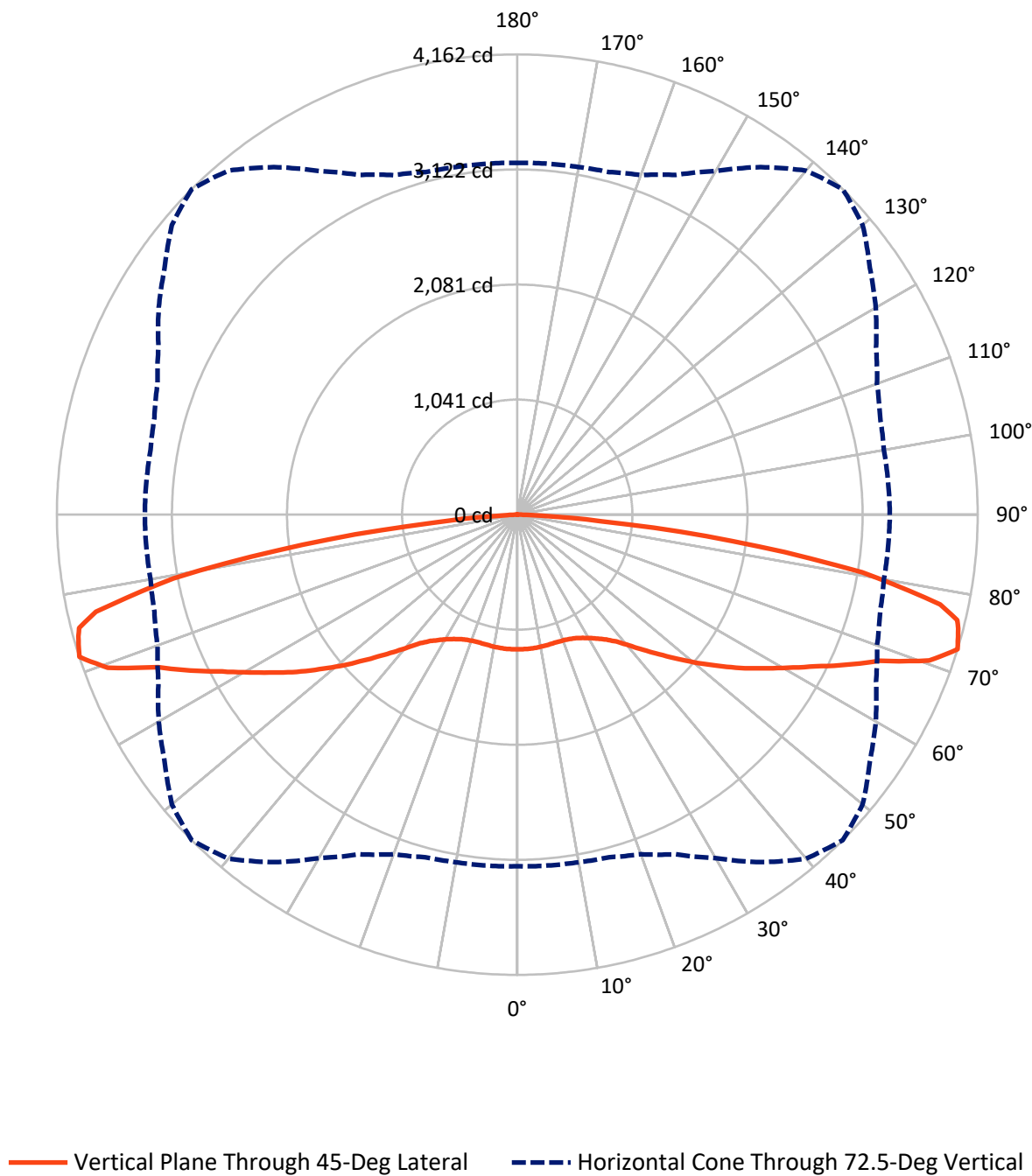


Based on 20 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157780

CATALOG NUMBER: VST-E04-LED-E-U-5XQ

## Luminous Intensity Polar Plot



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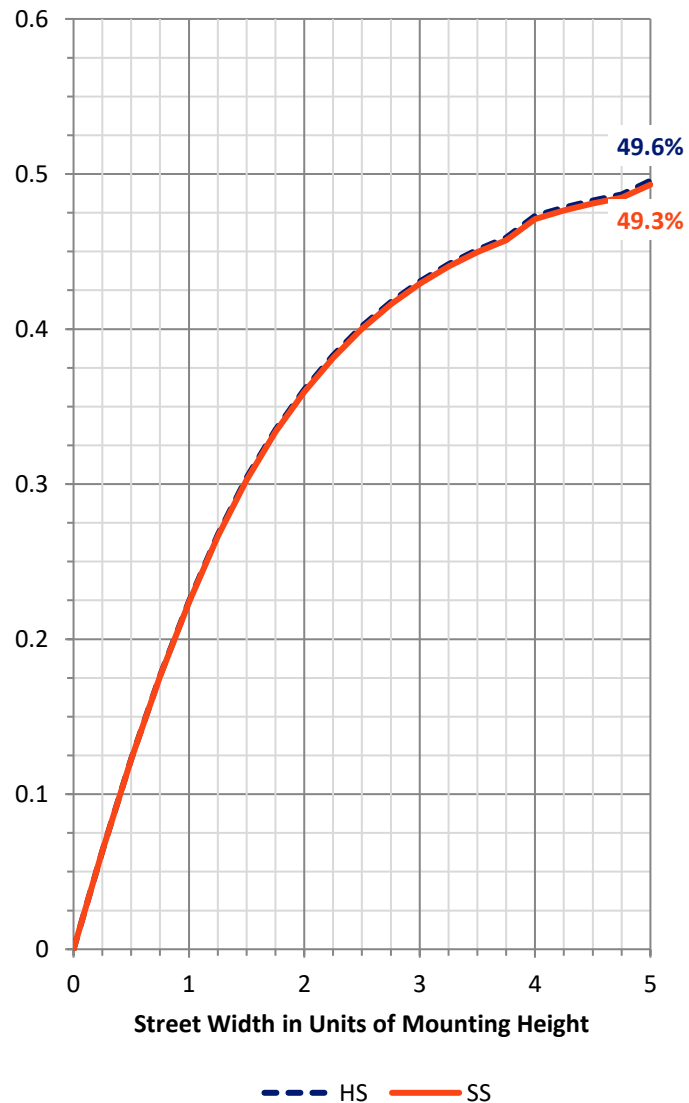
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6322.1   | 3.1    | 6325.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6322.1   | 3.1    | 6325.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12644.2  | 6.2    | 12650.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 116.2   | 0.9       |
| 10°-20°   | 343.1   | 2.7       |
| 20°-30°   | 573.8   | 4.5       |
| 30°-40°   | 872.1   | 6.9       |
| 40°-50°   | 1381.2  | 10.9      |
| 50°-60°   | 2112.8  | 16.7      |
| 60°-70°   | 3023.7  | 23.9      |
| 70°-80°   | 3459.8  | 27.3      |
| 80°-90°   | 761.5   | 6.0       |
| 90°-100°  | 0.6     | 0.0       |
| 100°-110° | 1.3     | 0.0       |
| 110°-120° | 0.9     | 0.0       |
| 120°-130° | 1.0     | 0.0       |
| 130°-140° | 0.9     | 0.0       |
| 140°-150° | 0.7     | 0.0       |
| 150°-160° | 0.5     | 0.0       |
| 160°-170° | 0.2     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 12644.2 | 100.0     |
| 0°-180°   | 12650.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P157780

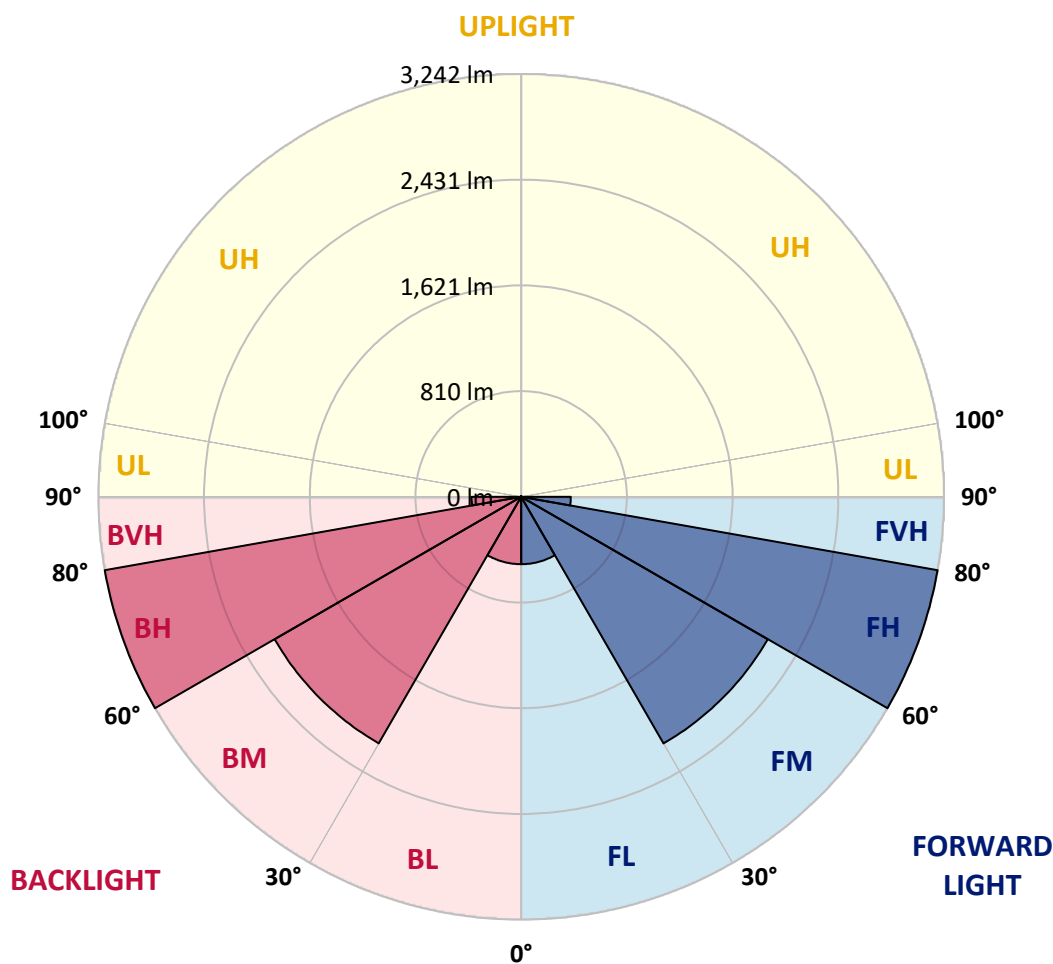
CATALOG NUMBER: VST-E04-LED-E-U-5XQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 516.5  | 4.1       |                         |       |         |
| FM   | (30°-60°)   | 2183.0 | 17.3      |                         |       |         |
| FH   | (60°-80°)   | 3241.8 | 25.6      |                         |       | G2/5000 |
| FVH  | (80°-90°)   | 380.7  | 3.0       |                         |       | G3/500  |
| BL   | (0°-30°)    | 516.5  | 4.1       | B2/1000                 |       |         |
| BM   | (30°-60°)   | 2183.0 | 17.3      | B2/2500                 |       |         |
| BH   | (60°-80°)   | 3241.8 | 25.6      | B4/5000                 |       | G2/5000 |
| BVH  | (80°-90°)   | 380.7  | 3.0       |                         |       | G3/500  |
| UL   | (90°-100°)  | 0.6    | 0.0       |                         | U1/10 |         |
| UH   | (100°-180°) | 3.1    | 0.0       |                         | U1/10 |         |

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

Type V Short





REPORT NUMBER: P157780

CATALOG NUMBER: VST-E04-LED-E-U-5XQ

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 |
| 2.5°   | 1218.4 | 1216.8 | 1217.6 | 1219.2 | 1218.4 | 1218.4 | 1217.6 | 1217.6 | 1219.2 | 1217.6 | 1218.4 |
| 5°     | 1219.2 | 1217.6 | 1218.4 | 1219.2 | 1218.4 | 1219.2 | 1218.4 | 1218.4 | 1218.4 | 1217.6 | 1219.2 |
| 7.5°   | 1216.0 | 1216.0 | 1216.8 | 1216.8 | 1216.0 | 1216.8 | 1216.8 | 1216.8 | 1216.0 | 1216.0 | 1217.6 |
| 10°    | 1214.4 | 1213.6 | 1213.6 | 1214.4 | 1213.6 | 1213.6 | 1214.4 | 1214.4 | 1212.8 | 1212.8 | 1214.4 |
| 12.5°  | 1212.0 | 1211.2 | 1211.2 | 1211.2 | 1210.4 | 1210.4 | 1211.2 | 1211.2 | 1210.4 | 1209.6 | 1212.0 |
| 15°    | 1210.4 | 1209.6 | 1209.6 | 1209.6 | 1208.0 | 1208.8 | 1208.8 | 1208.8 | 1208.0 | 1207.2 | 1209.6 |
| 17.5°  | 1209.6 | 1208.8 | 1208.8 | 1208.8 | 1208.0 | 1208.0 | 1208.0 | 1208.0 | 1207.2 | 1207.2 | 1208.8 |
| 20°    | 1211.2 | 1211.2 | 1211.2 | 1211.2 | 1210.4 | 1210.4 | 1210.4 | 1211.2 | 1211.2 | 1211.2 | 1212.8 |
| 22.5°  | 1215.2 | 1215.2 | 1216.0 | 1216.8 | 1216.8 | 1218.4 | 1219.2 | 1220.0 | 1220.0 | 1220.8 | 1222.4 |
| 25°    | 1225.6 | 1225.6 | 1226.4 | 1227.2 | 1229.6 | 1231.2 | 1234.4 | 1236.0 | 1236.8 | 1236.8 | 1237.6 |
| 27.5°  | 1244.8 | 1245.6 | 1247.2 | 1248.8 | 1252.0 | 1254.4 | 1257.6 | 1260.8 | 1261.6 | 1262.4 | 1263.2 |
| 30°    | 1268.8 | 1269.6 | 1272.8 | 1274.4 | 1278.4 | 1283.2 | 1287.2 | 1290.4 | 1292.8 | 1294.4 | 1293.6 |
| 32.5°  | 1303.2 | 1304.8 | 1308.8 | 1311.2 | 1316.8 | 1321.6 | 1327.2 | 1332.0 | 1334.4 | 1336.8 | 1336.0 |
| 35°    | 1351.2 | 1355.2 | 1359.2 | 1361.6 | 1367.2 | 1371.2 | 1378.4 | 1383.2 | 1388.0 | 1386.4 | 1387.2 |
| 37.5°  | 1422.4 | 1425.6 | 1426.4 | 1428.0 | 1433.6 | 1436.8 | 1444.8 | 1451.2 | 1453.6 | 1455.2 | 1456.0 |
| 40°    | 1518.4 | 1518.4 | 1522.4 | 1519.2 | 1526.4 | 1527.2 | 1536.8 | 1545.6 | 1548.0 | 1554.4 | 1549.6 |
| 42.5°  | 1630.4 | 1629.6 | 1632.0 | 1629.6 | 1629.6 | 1637.6 | 1645.6 | 1661.6 | 1663.2 | 1671.2 | 1666.4 |
| 45°    | 1752.0 | 1752.0 | 1749.6 | 1750.4 | 1752.0 | 1760.8 | 1770.4 | 1788.0 | 1796.0 | 1800.8 | 1797.6 |
| 47.5°  | 1884.0 | 1880.8 | 1880.0 | 1879.2 | 1884.0 | 1893.6 | 1908.0 | 1924.8 | 1944.8 | 1946.4 | 1944.8 |
| 50°    | 2017.6 | 2016.8 | 2011.2 | 2016.0 | 2019.2 | 2024.0 | 2051.2 | 2073.6 | 2094.4 | 2107.2 | 2103.2 |
| 52.5°  | 2158.4 | 2151.2 | 2151.2 | 2151.2 | 2159.2 | 2174.4 | 2198.4 | 2228.8 | 2256.8 | 2270.4 | 2268.0 |
| 55°    | 2300.8 | 2298.4 | 2291.2 | 2288.0 | 2298.4 | 2320.0 | 2354.4 | 2391.2 | 2428.0 | 2448.8 | 2440.8 |
| 57.5°  | 2431.2 | 2427.2 | 2428.0 | 2428.8 | 2440.8 | 2469.6 | 2509.6 | 2558.4 | 2598.4 | 2620.8 | 2615.2 |
| 60°    | 2533.6 | 2528.8 | 2537.6 | 2540.0 | 2561.6 | 2609.6 | 2673.6 | 2735.2 | 2788.0 | 2810.4 | 2801.6 |
| 62.5°  | 2649.6 | 2646.4 | 2652.0 | 2651.2 | 2674.4 | 2728.0 | 2813.6 | 2912.0 | 2992.0 | 3020.8 | 3008.0 |
| 65°    | 2836.8 | 2827.2 | 2824.8 | 2816.0 | 2831.2 | 2872.8 | 2958.4 | 3072.8 | 3200.8 | 3274.4 | 3256.8 |
| 67.5°  | 3060.8 | 3058.4 | 3050.4 | 3045.6 | 3051.2 | 3103.2 | 3185.6 | 3296.0 | 3426.4 | 3528.0 | 3550.4 |
| 70°    | 3208.8 | 3212.0 | 3220.0 | 3232.0 | 3278.4 | 3379.2 | 3529.6 | 3696.8 | 3876.0 | 3952.0 | 3938.4 |
| 72.5°  | 3180.8 | 3185.6 | 3192.0 | 3207.2 | 3268.0 | 3388.8 | 3587.2 | 3836.8 | 4061.6 | 4162.4 | 4076.0 |
| 75°    | 3044.0 | 3048.0 | 3062.4 | 3085.6 | 3160.0 | 3306.4 | 3520.0 | 3784.8 | 4016.8 | 4117.6 | 4027.2 |
| 76°    | 2917.6 | 2930.4 | 2956.8 | 2984.0 | 3073.6 | 3232.8 | 3460.8 | 3743.2 | 3988.8 | 4091.2 | 4004.0 |
| 77.5°  | 2631.2 | 2642.4 | 2664.0 | 2711.2 | 2812.8 | 3016.8 | 3283.2 | 3560.8 | 3816.8 | 3908.8 | 3835.2 |
| 80°    | 1980.0 | 1989.6 | 2009.6 | 2066.4 | 2154.4 | 2280.8 | 2487.2 | 2758.4 | 3039.2 | 3160.0 | 3112.0 |
| 82.5°  | 836.0  | 847.2  | 926.4  | 1008.8 | 1105.6 | 1242.4 | 1376.8 | 1616.8 | 1823.2 | 1960.8 | 1887.2 |
| 85°    | 92.0   | 113.6  | 140.0  | 190.4  | 233.6  | 311.2  | 387.2  | 532.8  | 673.6  | 759.2  | 671.2  |
| 87.5°  | 16.0   | 18.4   | 26.4   | 33.6   | 37.6   | 43.2   | 52.0   | 72.8   | 99.2   | 85.6   | 87.2   |
| 90°    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 1.6    | 1.6    | 1.6    | 1.6    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 100°   | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    | 1.6    |
| 102.5° | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 105°   | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 107.5° | 0.8    | 0.8    | 0.8    | 0.8    | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 1.6    | 0.8    |



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CATALOG NUMBER: VST-E04-LED-E-U-5XQ

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 112.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 115°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 117.5° | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 120°   | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 122.5° | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 125°   | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 127.5° | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 130°   | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 132.5° | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 135°   | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 137.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 140°   | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 142.5° | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 145°   | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.8 |
| 147.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 150°   | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 152.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 |
| 155°   | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.8 |
| 157.5° | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 160°   | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 162.5° | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 |
| 165°   | 1.6 | 1.6 | 1.6 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 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: P157780

CATALOG NUMBER: VST-E04-LED-E-U-5XQ

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 | 1217.6 |
| 2.5°   | 1217.6 | 1217.6 | 1219.2 | 1218.4 | 1218.4 | 1219.2 | 1220.8 | 1220.0 |
| 5°     | 1218.4 | 1219.2 | 1217.6 | 1218.4 | 1219.2 | 1219.2 | 1220.0 | 1219.2 |
| 7.5°   | 1216.8 | 1216.8 | 1216.8 | 1217.6 | 1218.4 | 1217.6 | 1218.4 | 1218.4 |
| 10°    | 1213.6 | 1214.4 | 1213.6 | 1215.2 | 1216.0 | 1216.0 | 1216.8 | 1216.8 |
| 12.5°  | 1211.2 | 1211.2 | 1211.2 | 1212.8 | 1213.6 | 1213.6 | 1214.4 | 1213.6 |
| 15°    | 1208.8 | 1208.8 | 1208.0 | 1209.6 | 1211.2 | 1211.2 | 1212.0 | 1212.0 |
| 17.5°  | 1208.0 | 1208.0 | 1207.2 | 1208.8 | 1210.4 | 1210.4 | 1211.2 | 1211.2 |
| 20°    | 1210.4 | 1211.2 | 1209.6 | 1211.2 | 1212.8 | 1213.6 | 1213.6 | 1213.6 |
| 22.5°  | 1220.0 | 1219.2 | 1216.8 | 1217.6 | 1218.4 | 1218.4 | 1218.4 | 1218.4 |
| 25°    | 1234.4 | 1232.8 | 1230.4 | 1229.6 | 1228.8 | 1228.0 | 1228.0 | 1228.0 |
| 27.5°  | 1259.2 | 1256.8 | 1252.8 | 1252.0 | 1251.2 | 1249.6 | 1249.6 | 1249.6 |
| 30°    | 1288.8 | 1285.6 | 1280.8 | 1279.2 | 1276.8 | 1275.2 | 1274.4 | 1273.6 |
| 32.5°  | 1331.2 | 1324.8 | 1319.2 | 1315.2 | 1312.8 | 1308.0 | 1307.2 | 1305.6 |
| 35°    | 1380.0 | 1375.2 | 1367.2 | 1364.8 | 1360.8 | 1358.4 | 1357.6 | 1353.6 |
| 37.5°  | 1447.2 | 1441.6 | 1434.4 | 1432.8 | 1432.0 | 1429.6 | 1429.6 | 1428.8 |
| 40°    | 1540.8 | 1535.2 | 1528.8 | 1522.4 | 1524.0 | 1524.8 | 1524.8 | 1521.6 |
| 42.5°  | 1655.2 | 1646.4 | 1633.6 | 1637.6 | 1635.2 | 1632.0 | 1638.4 | 1634.4 |
| 45°    | 1785.6 | 1773.6 | 1764.0 | 1760.0 | 1760.0 | 1756.0 | 1762.4 | 1762.4 |
| 47.5°  | 1930.4 | 1911.2 | 1893.6 | 1894.4 | 1888.0 | 1889.6 | 1893.6 | 1899.2 |
| 50°    | 2083.2 | 2057.6 | 2040.8 | 2032.8 | 2026.4 | 2028.8 | 2036.0 | 2037.6 |
| 52.5°  | 2241.6 | 2210.4 | 2188.0 | 2176.0 | 2168.0 | 2171.2 | 2176.8 | 2181.6 |
| 55°    | 2406.4 | 2372.0 | 2338.4 | 2325.6 | 2316.0 | 2322.4 | 2323.2 | 2329.6 |
| 57.5°  | 2578.4 | 2531.2 | 2492.0 | 2472.8 | 2463.2 | 2469.6 | 2474.4 | 2480.8 |
| 60°    | 2752.0 | 2697.6 | 2651.2 | 2628.8 | 2615.2 | 2624.0 | 2635.2 | 2638.4 |
| 62.5°  | 2953.6 | 2878.4 | 2826.4 | 2794.4 | 2788.0 | 2796.8 | 2800.0 | 2809.6 |
| 65°    | 3192.0 | 3101.6 | 3029.6 | 2990.4 | 2988.8 | 2993.6 | 3000.8 | 3003.2 |
| 67.5°  | 3464.0 | 3363.2 | 3266.4 | 3227.2 | 3212.0 | 3226.4 | 3233.6 | 3243.2 |
| 70°    | 3848.0 | 3709.6 | 3569.6 | 3482.4 | 3445.6 | 3434.4 | 3437.6 | 3448.0 |
| 72.5°  | 3891.2 | 3742.4 | 3579.2 | 3460.8 | 3396.0 | 3366.4 | 3365.6 | 3367.2 |
| 75°    | 3796.8 | 3559.2 | 3444.0 | 3308.0 | 3216.0 | 3168.0 | 3161.6 | 3160.8 |
| 76°    | 3749.6 | 3468.8 | 3302.4 | 3194.4 | 3084.0 | 3035.2 | 3028.0 | 3024.0 |
| 77.5°  | 3550.4 | 3248.8 | 2998.4 | 2932.8 | 2827.2 | 2765.6 | 2778.4 | 2768.0 |
| 80°    | 2846.4 | 2547.2 | 2311.2 | 2126.4 | 2132.0 | 2087.2 | 2068.8 | 2063.2 |
| 82.5°  | 1677.6 | 1432.0 | 1171.2 | 1018.4 | 872.8  | 834.4  | 718.4  | 692.0  |
| 85°    | 536.0  | 380.0  | 230.4  | 167.2  | 113.6  | 95.2   | 74.4   | 68.0   |
| 87.5°  | 71.2   | 56.0   | 45.6   | 44.0   | 40.0   | 34.4   | 22.4   | 16.0   |
| 90°    | 0.8    | 0.8    | 0.8    | 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°    | 0.8    | 0.8    | 0.8    | 0.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 100°   | 1.6    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    | 0.8    |
| 102.5° | 1.6    | 1.6    | 1.6    | 1.6    | 0.8    | 0.8    | 0.8    | 0.8    |
| 105°   | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |
| 107.5° | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    | 1.6    |



REPORT NUMBER: P157780

CATALOG NUMBER: VST-E04-LED-E-U-5XQ

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 |
| 112.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 |
| 115°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 |
| 117.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 |
| 120°   | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 |
| 122.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| 125°   | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| 127.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| 130°   | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 132.5° | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 135°   | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 137.5° | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 140°   | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 142.5° | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 145°   | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| 147.5° | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 150°   | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| 152.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| 155°   | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 157.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| 160°   | 0.8 | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 |
| 162.5° | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 165°   | 0.8 | 0.8 | 0.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| 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)