

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: P165259

Luminaire Tested: **VST-E04-LED-E-U-SL3-HSS-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165259  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)  
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-SL3-HSS-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (84) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7031.3 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2  
  
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



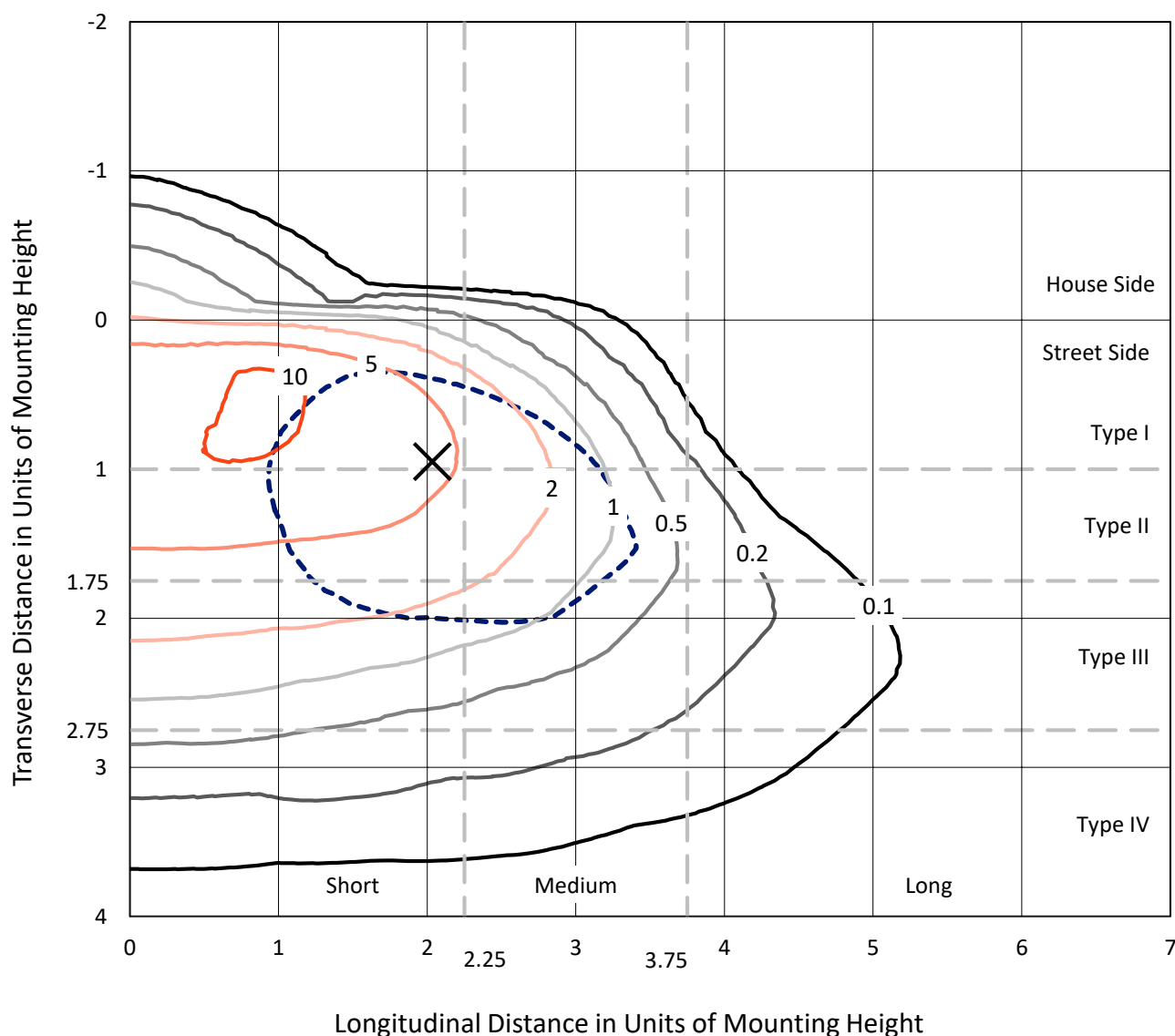
REPORT NUMBER: P165259

CATALOG NUMBER: VST-E04-LED-E-U-SL3-HSS-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

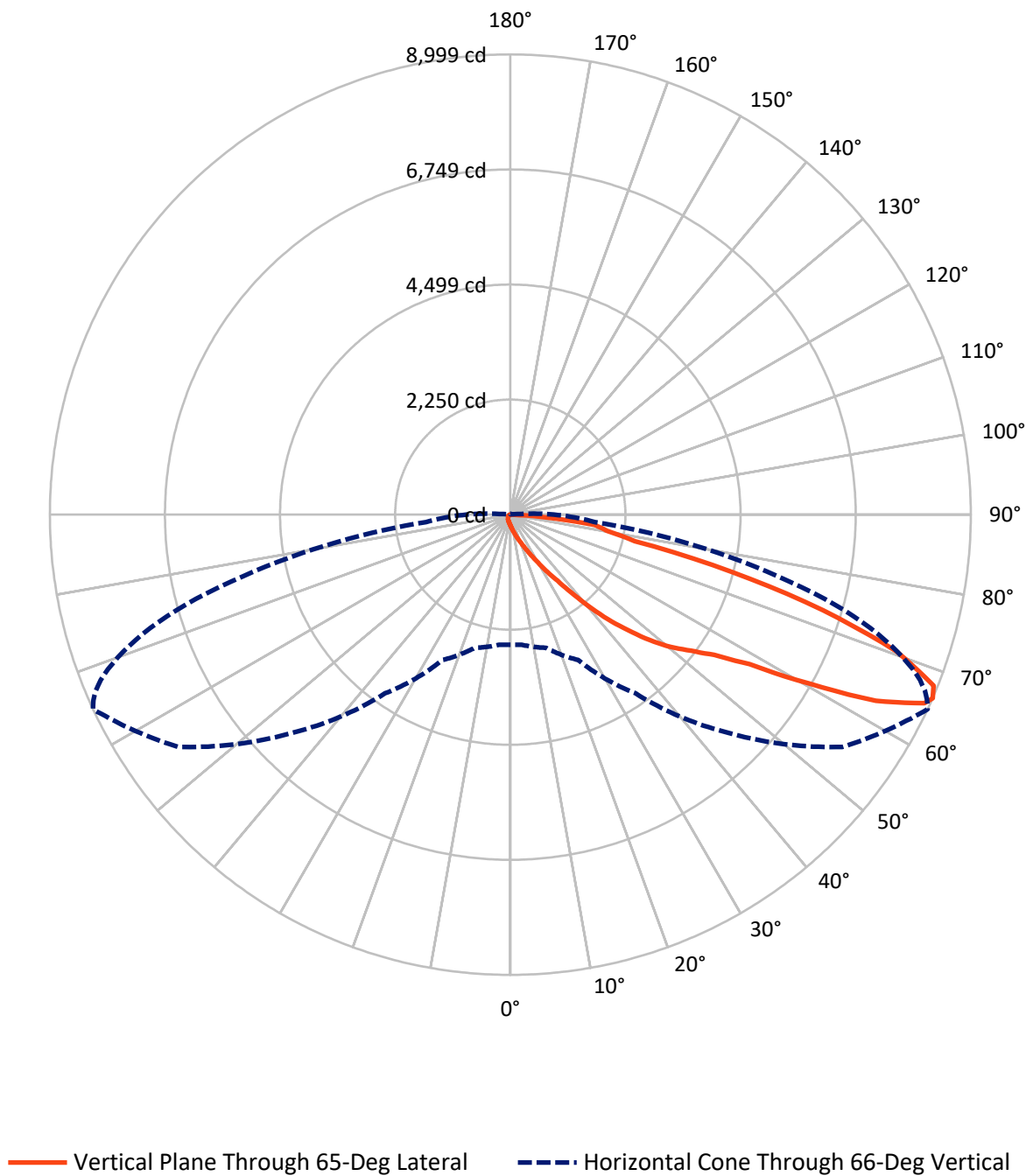


Based on 10 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P165259

CATALOG NUMBER: VST-E04-LED-E-U-SL3-HSS-7060

## Luminous Intensity Polar Plot



REPORT NUMBER: P165259

CATALOG NUMBER: VST-E04-LED-E-U-SL3-HSS-7060

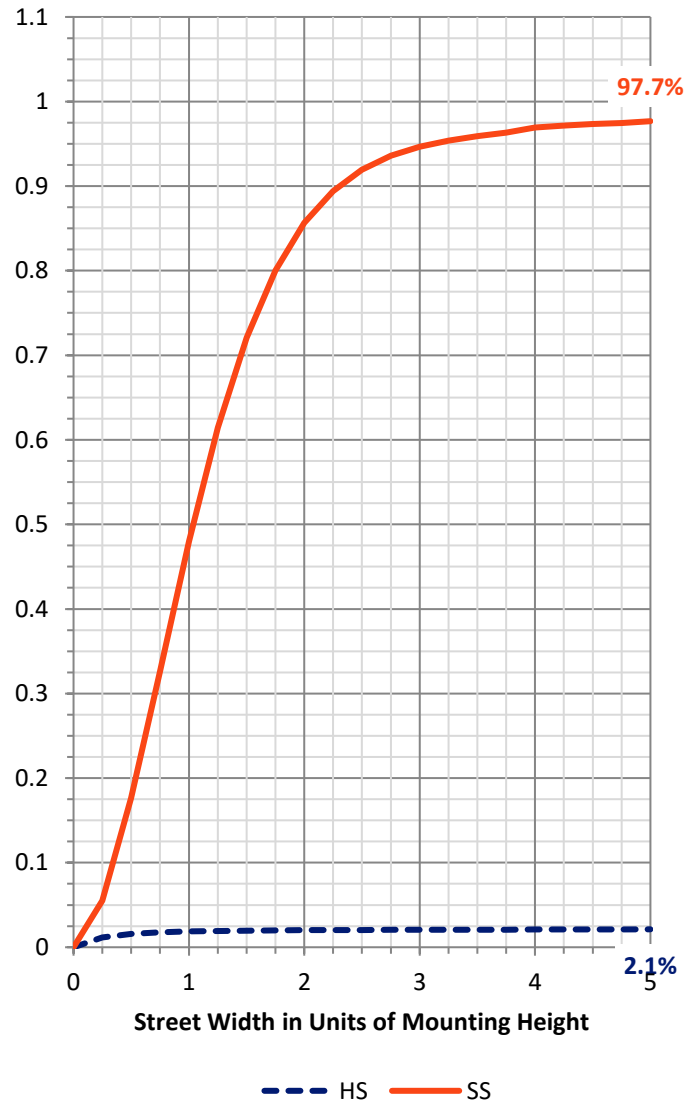
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 152.4    | 0.0    | 152.4  |
|                    | % Fixture | 2.2      | 0.0    | 2.2    |
| <b>Street Side</b> | Lumens    | 6878.9   | 0.0    | 6878.9 |
|                    | % Fixture | 97.8     | 0.0    | 97.8   |
| <b>Total</b>       | Lumens    | 7031.3   | 0.0    | 7031.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.8   | 0.3       |
| 10°-20°   | 100.7  | 1.4       |
| 20°-30°   | 217.3  | 3.1       |
| 30°-40°   | 464.0  | 6.6       |
| 40°-50°   | 1026.1 | 14.6      |
| 50°-60°   | 1739.0 | 24.7      |
| 60°-70°   | 2320.5 | 33.0      |
| 70°-80°   | 1022.1 | 14.5      |
| 80°-90°   | 117.7  | 1.7       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 7031.3 | 100.0     |
| 0°-180°   | 7031.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P165259

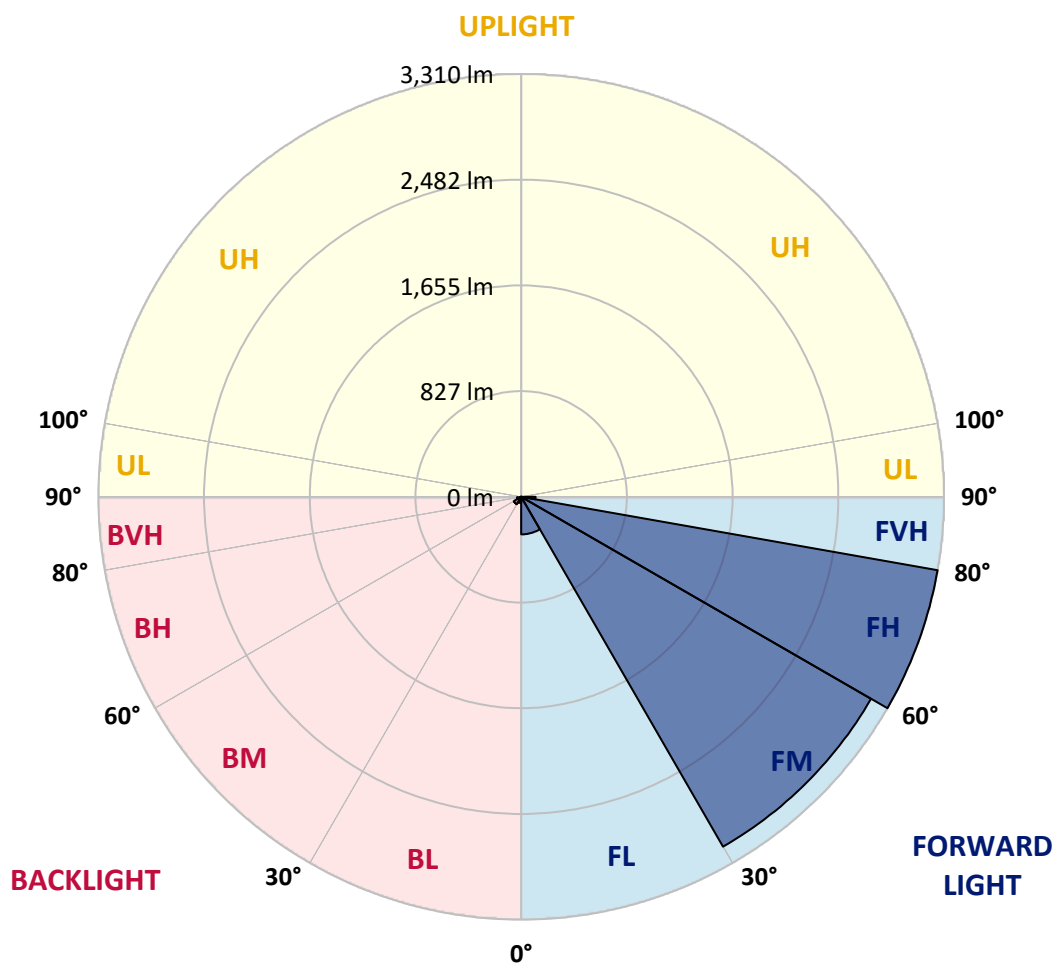
CATALOG NUMBER: VST-E04-LED-E-U-SL3-HSS-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 293.7  | 4.2       |                         |      |         |
| FM   | (30°-60°)   | 3162.2 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 3310.0 | 47.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 113.0  | 1.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 48.1   | 0.7       | B0/110                  |      |         |
| BM   | (30°-60°)   | 66.9   | 1.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 32.7   | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 4.7    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type III Short





REPORT NUMBER: P165259

CATALOG NUMBER: VST-E04-LED-E-U-SL3-HSS-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  |
| 2.5°  | 267.7  | 266.3  | 260.9  | 260.9  | 252.8  | 247.4  | 240.6  | 233.9  | 233.9  | 232.5  | 231.2  |
| 5°    | 354.1  | 346.1  | 344.7  | 329.8  | 317.7  | 300.1  | 283.9  | 262.3  | 259.6  | 256.9  | 255.5  |
| 7.5°  | 450.2  | 448.8  | 436.6  | 419.1  | 394.8  | 362.3  | 329.8  | 294.7  | 289.3  | 286.6  | 281.2  |
| 10°   | 574.5  | 567.7  | 551.6  | 521.8  | 485.3  | 442.0  | 389.3  | 333.9  | 327.1  | 321.7  | 319.0  |
| 12.5° | 693.5  | 681.3  | 671.8  | 634.0  | 588.0  | 524.5  | 460.9  | 381.2  | 375.8  | 369.1  | 358.2  |
| 15°   | 804.3  | 793.5  | 777.3  | 744.9  | 693.5  | 613.7  | 539.4  | 442.0  | 428.5  | 419.1  | 410.9  |
| 17.5° | 890.8  | 884.1  | 865.1  | 828.7  | 773.2  | 702.9  | 613.7  | 504.2  | 493.4  | 481.2  | 466.3  |
| 20°   | 973.3  | 963.8  | 934.1  | 884.1  | 824.6  | 770.5  | 701.6  | 585.3  | 570.4  | 555.6  | 539.4  |
| 22.5° | 1051.7 | 1042.2 | 993.6  | 911.1  | 847.6  | 824.6  | 800.3  | 677.2  | 654.2  | 642.1  | 625.8  |
| 25°   | 1161.2 | 1140.9 | 1065.2 | 934.1  | 849.0  | 866.5  | 908.4  | 796.2  | 774.6  | 757.0  | 731.3  |
| 27.5° | 1308.6 | 1281.5 | 1162.5 | 967.9  | 854.3  | 912.5  | 1032.8 | 940.8  | 917.8  | 897.6  | 869.2  |
| 30°   | 1474.8 | 1457.2 | 1315.3 | 1049.0 | 893.5  | 980.1  | 1172.0 | 1124.7 | 1097.7 | 1073.3 | 1039.6 |
| 32.5° | 1642.4 | 1618.1 | 1477.5 | 1203.1 | 998.9  | 1111.1 | 1346.4 | 1338.3 | 1303.2 | 1280.2 | 1243.6 |
| 35°   | 1789.8 | 1777.6 | 1673.5 | 1455.8 | 1239.6 | 1341.0 | 1578.9 | 1588.3 | 1557.3 | 1532.9 | 1492.4 |
| 37.5° | 1889.8 | 1889.8 | 1869.6 | 1727.6 | 1622.1 | 1697.8 | 1920.9 | 1922.3 | 1891.2 | 1835.7 | 1815.5 |
| 40°   | 1941.1 | 1956.0 | 2029.1 | 2056.1 | 2050.7 | 2148.0 | 2369.7 | 2345.3 | 2319.7 | 2291.3 | 2223.7 |
| 42.5° | 2046.6 | 2060.1 | 2215.6 | 2402.2 | 2523.8 | 2652.2 | 2805.0 | 2796.8 | 2765.8 | 2714.4 | 2652.2 |
| 45°   | 2225.1 | 2242.7 | 2427.8 | 2723.9 | 2973.9 | 3156.5 | 3253.7 | 3215.9 | 3184.8 | 3136.2 | 3103.7 |
| 47.5° | 2452.1 | 2486.0 | 2695.5 | 3061.8 | 3363.2 | 3664.7 | 3766.1 | 3666.1 | 3639.1 | 3601.1 | 3548.4 |
| 50°   | 2694.1 | 2726.6 | 2949.6 | 3368.7 | 3709.3 | 4068.9 | 4237.9 | 4068.9 | 4029.7 | 4017.5 | 3958.1 |
| 52.5° | 2903.6 | 2930.7 | 3145.6 | 3605.2 | 3974.2 | 4396.0 | 4642.0 | 4419.0 | 4390.6 | 4350.0 | 4306.8 |
| 55°   | 3028.0 | 3049.7 | 3251.0 | 3718.8 | 4154.1 | 4690.7 | 5032.8 | 4836.7 | 4794.8 | 4778.6 | 4716.4 |
| 57.5° | 3069.9 | 3091.5 | 3272.7 | 3733.6 | 4251.4 | 4959.7 | 5507.2 | 5514.0 | 5464.0 | 5405.9 | 5386.9 |
| 60°   | 3069.9 | 3094.2 | 3247.0 | 3697.2 | 4346.0 | 5246.3 | 6139.8 | 6703.5 | 6595.4 | 6584.6 | 6515.6 |
| 62.5° | 2942.9 | 2965.9 | 3119.9 | 3585.0 | 4473.1 | 5632.9 | 7021.2 | 8016.1 | 7985.1 | 7914.7 | 7801.2 |
| 65°   | 2667.1 | 2680.6 | 2832.0 | 3298.4 | 4424.4 | 5988.4 | 7784.9 | 8889.4 | 8839.4 | 8701.5 | 8555.5 |
| 66°   | 2542.7 | 2553.5 | 2695.5 | 3134.8 | 4264.9 | 6037.1 | 7920.1 | 8998.9 | 8916.4 | 8800.1 | 8635.2 |
| 67.5° | 2362.9 | 2381.9 | 2481.9 | 2830.7 | 3882.4 | 5868.1 | 7835.0 | 8921.9 | 8850.2 | 8709.6 | 8544.7 |
| 70°   | 1577.6 | 1564.0 | 1916.8 | 2172.3 | 2957.7 | 4781.3 | 7029.3 | 8010.7 | 8012.1 | 7945.8 | 7879.6 |
| 72.5° | 748.9  | 757.0  | 859.7  | 1336.9 | 1935.7 | 3194.3 | 5595.1 | 6394.0 | 6485.9 | 6366.9 | 6284.4 |
| 75°   | 538.0  | 550.2  | 612.4  | 817.8  | 1154.4 | 1916.8 | 3626.8 | 4471.7 | 4474.4 | 4263.5 | 4075.7 |
| 77.5° | 156.8  | 163.6  | 229.8  | 504.2  | 865.1  | 1293.6 | 2083.1 | 2486.0 | 2427.8 | 2276.4 | 2134.5 |
| 80°   | 64.8   | 64.8   | 67.6   | 160.9  | 347.4  | 878.7  | 1457.2 | 1914.1 | 1907.4 | 1849.3 | 1765.5 |
| 82.5° | 24.3   | 25.7   | 32.4   | 66.2   | 82.5   | 216.3  | 971.9  | 1661.4 | 1657.3 | 1574.9 | 1515.4 |
| 85°   | 2.7    | 2.7    | 8.1    | 28.4   | 31.1   | 40.6   | 194.6  | 732.6  | 728.6  | 732.6  | 642.1  |
| 87.5° | 0.0    | 0.0    | 1.3    | 2.7    | 4.0    | 5.4    | 8.1    | 28.4   | 31.1   | 29.7   | 27.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P165259

CATALOG NUMBER: VST-E04-LED-E-U-SL3-HSS-7060

**CANDELA DISTRIBUTION (continued):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  |
| 2.5°  | 231.2  | 228.5  | 228.5  | 227.1  | 227.1  | 227.1  | 225.7  | 224.4  | 224.4  | 223.0  | 221.7  |
| 5°    | 252.8  | 250.0  | 248.7  | 246.0  | 244.7  | 243.3  | 240.6  | 239.3  | 236.6  | 235.2  | 233.9  |
| 7.5°  | 278.4  | 273.0  | 271.7  | 267.7  | 263.6  | 260.9  | 258.2  | 254.1  | 251.4  | 246.0  | 244.7  |
| 10°   | 311.0  | 304.1  | 298.7  | 293.3  | 289.3  | 282.5  | 278.4  | 273.0  | 267.7  | 263.6  | 259.6  |
| 12.5° | 352.8  | 343.4  | 335.2  | 329.8  | 320.4  | 312.3  | 304.1  | 300.1  | 289.3  | 283.9  | 277.1  |
| 15°   | 398.8  | 387.9  | 378.5  | 367.7  | 360.9  | 347.4  | 336.6  | 324.4  | 319.0  | 309.6  | 298.7  |
| 17.5° | 458.2  | 440.7  | 425.8  | 415.0  | 401.5  | 387.9  | 375.8  | 363.7  | 347.4  | 336.6  | 323.1  |
| 20°   | 521.8  | 506.9  | 486.6  | 467.7  | 451.5  | 435.3  | 417.7  | 401.5  | 386.6  | 369.1  | 352.8  |
| 22.5° | 602.9  | 581.3  | 557.0  | 538.0  | 516.4  | 498.9  | 474.5  | 452.9  | 428.5  | 405.5  | 386.6  |
| 25°   | 705.6  | 677.2  | 654.2  | 627.2  | 601.5  | 574.5  | 544.7  | 517.7  | 486.6  | 465.0  | 432.6  |
| 27.5° | 832.7  | 805.7  | 774.6  | 739.5  | 713.8  | 673.2  | 634.0  | 600.2  | 563.7  | 529.9  | 493.4  |
| 30°   | 994.9  | 955.8  | 923.2  | 889.5  | 838.1  | 798.9  | 752.9  | 707.0  | 657.0  | 623.2  | 567.7  |
| 32.5° | 1189.5 | 1147.7 | 1099.0 | 1050.3 | 1003.0 | 947.6  | 890.8  | 834.0  | 778.6  | 716.5  | 659.7  |
| 35°   | 1427.5 | 1377.4 | 1322.0 | 1269.3 | 1196.4 | 1136.8 | 1065.2 | 986.8  | 924.6  | 853.0  | 781.3  |
| 37.5° | 1742.5 | 1660.0 | 1611.3 | 1555.9 | 1457.2 | 1376.1 | 1296.3 | 1217.9 | 1108.4 | 1032.8 | 931.4  |
| 40°   | 2137.2 | 2088.5 | 2008.8 | 1919.6 | 1830.3 | 1723.5 | 1615.4 | 1511.3 | 1384.3 | 1278.8 | 1161.2 |
| 42.5° | 2600.8 | 2529.2 | 2448.1 | 2319.7 | 2229.1 | 2103.4 | 1980.4 | 1842.5 | 1687.0 | 1551.9 | 1414.0 |
| 45°   | 3036.1 | 2951.0 | 2888.8 | 2760.4 | 2665.7 | 2517.0 | 2368.3 | 2222.4 | 2042.5 | 1868.2 | 1708.7 |
| 47.5° | 3506.6 | 3436.2 | 3333.5 | 3229.4 | 3133.5 | 2965.9 | 2805.0 | 2627.9 | 2438.6 | 2231.8 | 2025.0 |
| 50°   | 3920.2 | 3864.8 | 3794.5 | 3668.8 | 3562.0 | 3421.4 | 3232.2 | 3038.8 | 2799.5 | 2594.1 | 2358.9 |
| 52.5° | 4271.6 | 4228.4 | 4129.7 | 4040.5 | 3944.5 | 3812.0 | 3643.1 | 3457.9 | 3199.7 | 2973.9 | 2706.3 |
| 55°   | 4686.7 | 4655.6 | 4569.0 | 4513.6 | 4428.5 | 4301.4 | 4143.2 | 3971.6 | 3698.5 | 3452.5 | 3149.7 |
| 57.5° | 5366.6 | 5342.3 | 5266.5 | 5243.6 | 5159.8 | 5048.9 | 4854.3 | 4670.4 | 4351.4 | 4045.9 | 3699.9 |
| 60°   | 6492.6 | 6444.0 | 6333.1 | 6276.4 | 6099.3 | 5950.6 | 5697.8 | 5445.0 | 5059.8 | 4670.4 | 4254.1 |
| 62.5° | 7698.4 | 7561.9 | 7351.0 | 7169.9 | 6918.5 | 6660.2 | 6322.3 | 5935.7 | 5484.2 | 5021.9 | 4543.3 |
| 65°   | 8348.6 | 8116.2 | 7849.9 | 7561.9 | 7236.2 | 6856.3 | 6430.5 | 5966.8 | 5481.5 | 4993.5 | 4487.9 |
| 66°   | 8423.0 | 8160.7 | 7878.3 | 7557.9 | 7195.6 | 6791.4 | 6358.8 | 5872.2 | 5367.9 | 4892.1 | 4386.6 |
| 67.5° | 8329.8 | 8055.3 | 7756.6 | 7401.1 | 7009.0 | 6590.0 | 6135.8 | 5630.2 | 5144.9 | 4662.3 | 4170.3 |
| 70°   | 7676.8 | 7403.7 | 7137.4 | 6763.0 | 6345.3 | 5923.6 | 5493.7 | 4928.7 | 4469.1 | 4025.6 | 3587.7 |
| 72.5° | 6130.4 | 5945.2 | 5681.6 | 5361.2 | 4954.3 | 4459.5 | 4101.3 | 3595.8 | 3197.0 | 2767.1 | 2427.8 |
| 75°   | 3831.0 | 3570.1 | 3244.3 | 2836.1 | 2525.1 | 2123.6 | 1914.1 | 1530.2 | 1303.2 | 1104.4 | 912.5  |
| 77.5° | 1958.7 | 1762.8 | 1534.3 | 1304.5 | 1084.1 | 865.1  | 669.1  | 473.2  | 319.0  | 221.7  | 164.9  |
| 80°   | 1618.1 | 1445.1 | 1255.8 | 1046.3 | 851.7  | 661.1  | 475.9  | 324.4  | 206.9  | 135.2  | 105.4  |
| 82.5° | 1336.9 | 1190.9 | 1021.9 | 827.3  | 658.3  | 519.1  | 360.9  | 235.2  | 146.0  | 94.6   | 74.4   |
| 85°   | 569.1  | 516.4  | 398.8  | 316.3  | 237.9  | 175.8  | 123.1  | 82.5   | 58.1   | 47.3   | 43.3   |
| 87.5° | 24.3   | 27.0   | 25.7   | 20.3   | 14.9   | 14.9   | 13.5   | 10.8   | 10.8   | 10.8   | 10.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P165259

CATALOG NUMBER: VST-E04-LED-E-U-SL3-HSS-7060

**CANDELA DISTRIBUTION (continued):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 95°   | 105°  | 115°  | 125°  | 135°  |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 0°    | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2  | 212.2 | 212.2 | 212.2 | 212.2 | 212.2 |
| 2.5°  | 221.7  | 220.3  | 219.0  | 219.0  | 217.6  | 216.3  | 208.2 | 201.4 | 193.3 | 187.9 | 182.5 |
| 5°    | 231.2  | 229.8  | 227.1  | 225.7  | 223.0  | 221.7  | 204.2 | 189.2 | 177.1 | 167.6 | 160.9 |
| 7.5°  | 240.6  | 239.3  | 235.2  | 231.2  | 229.8  | 227.1  | 198.7 | 179.8 | 163.6 | 152.8 | 146.0 |
| 10°   | 252.8  | 248.7  | 244.7  | 239.3  | 235.2  | 231.2  | 193.3 | 168.9 | 151.4 | 141.9 | 135.2 |
| 12.5° | 270.3  | 263.6  | 256.9  | 250.0  | 244.7  | 237.9  | 190.6 | 159.5 | 141.9 | 131.1 | 124.4 |
| 15°   | 290.7  | 281.2  | 273.0  | 265.0  | 255.5  | 248.7  | 185.2 | 151.4 | 133.8 | 123.1 | 114.9 |
| 17.5° | 309.6  | 298.7  | 286.6  | 274.4  | 265.0  | 255.5  | 179.8 | 143.3 | 125.7 | 114.9 | 106.8 |
| 20°   | 336.6  | 320.4  | 305.5  | 290.7  | 277.1  | 265.0  | 171.6 | 135.2 | 118.9 | 106.8 | 98.7  |
| 22.5° | 366.4  | 347.4  | 328.5  | 308.2  | 290.7  | 274.4  | 164.9 | 128.4 | 112.2 | 100.1 | 90.5  |
| 25°   | 404.2  | 381.2  | 355.5  | 329.8  | 309.6  | 288.0  | 158.2 | 121.7 | 105.4 | 93.3  | 83.8  |
| 27.5° | 456.9  | 424.5  | 396.1  | 363.7  | 332.5  | 308.2  | 152.8 | 116.2 | 98.7  | 86.5  | 77.1  |
| 30°   | 528.6  | 481.2  | 436.6  | 401.5  | 365.0  | 329.8  | 147.3 | 109.5 | 93.3  | 79.8  | 69.0  |
| 32.5° | 608.3  | 552.9  | 501.5  | 448.8  | 402.8  | 362.3  | 141.9 | 104.1 | 86.5  | 73.0  | 63.5  |
| 35°   | 707.0  | 636.7  | 567.7  | 506.9  | 451.5  | 397.4  | 136.5 | 98.7  | 81.1  | 66.2  | 56.8  |
| 37.5° | 849.0  | 761.0  | 670.5  | 592.1  | 520.4  | 448.8  | 132.5 | 93.3  | 74.4  | 59.5  | 50.0  |
| 40°   | 1043.6 | 930.1  | 819.2  | 712.4  | 619.1  | 529.9  | 127.1 | 87.8  | 69.0  | 54.1  | 44.6  |
| 42.5° | 1254.5 | 1116.6 | 970.6  | 850.3  | 721.9  | 609.7  | 121.7 | 82.5  | 63.5  | 48.7  | 39.2  |
| 45°   | 1516.7 | 1345.0 | 1168.0 | 1004.4 | 847.6  | 702.9  | 116.2 | 77.1  | 56.8  | 43.3  | 33.8  |
| 47.5° | 1803.3 | 1584.3 | 1384.3 | 1178.8 | 992.2  | 819.2  | 109.5 | 73.0  | 51.4  | 37.8  | 29.7  |
| 50°   | 2098.0 | 1866.9 | 1614.0 | 1380.2 | 1158.5 | 935.5  | 102.8 | 66.2  | 46.0  | 33.8  | 24.3  |
| 52.5° | 2415.6 | 2142.6 | 1884.4 | 1593.7 | 1335.6 | 1088.2 | 96.0  | 60.8  | 41.9  | 29.7  | 20.3  |
| 55°   | 2819.8 | 2514.4 | 2211.5 | 1885.7 | 1574.9 | 1265.3 | 89.2  | 54.1  | 36.5  | 25.7  | 16.3  |
| 57.5° | 3328.1 | 2965.9 | 2594.1 | 2226.4 | 1849.3 | 1497.8 | 83.8  | 47.3  | 31.1  | 21.6  | 13.5  |
| 60°   | 3808.0 | 3384.9 | 2934.7 | 2511.7 | 2085.8 | 1676.2 | 75.7  | 41.9  | 27.0  | 17.6  | 13.5  |
| 62.5° | 4056.7 | 3574.1 | 3088.8 | 2622.5 | 2168.3 | 1739.8 | 67.6  | 35.1  | 23.0  | 14.9  | 12.1  |
| 65°   | 3995.9 | 3503.9 | 3033.4 | 2563.0 | 2118.3 | 1699.2 | 59.5  | 31.1  | 20.3  | 13.5  | 12.1  |
| 66°   | 3908.1 | 3421.4 | 2948.3 | 2500.8 | 2076.3 | 1656.0 | 55.4  | 29.7  | 19.0  | 13.5  | 10.8  |
| 67.5° | 3716.1 | 3245.6 | 2794.1 | 2377.8 | 1961.4 | 1573.5 | 50.0  | 27.0  | 17.6  | 12.1  | 10.8  |
| 70°   | 3174.0 | 2746.8 | 2385.9 | 2015.5 | 1676.2 | 1326.1 | 40.6  | 23.0  | 14.9  | 10.8  | 10.8  |
| 72.5° | 2100.6 | 1810.0 | 1569.4 | 1350.4 | 1128.7 | 876.0  | 33.8  | 19.0  | 12.1  | 10.8  | 9.4   |
| 75°   | 792.2  | 716.5  | 615.1  | 552.9  | 482.6  | 423.1  | 27.0  | 12.1  | 9.4   | 9.4   | 9.4   |
| 77.5° | 140.6  | 129.8  | 114.9  | 105.4  | 97.4   | 89.2   | 21.6  | 8.1   | 8.1   | 9.4   | 9.4   |
| 80°   | 94.6   | 87.8   | 79.8   | 73.0   | 67.6   | 60.8   | 14.9  | 6.7   | 8.1   | 8.1   | 9.4   |
| 82.5° | 67.6   | 63.5   | 59.5   | 54.1   | 50.0   | 44.6   | 9.4   | 6.7   | 8.1   | 8.1   | 8.1   |
| 85°   | 40.6   | 37.8   | 35.1   | 32.4   | 28.4   | 27.0   | 6.7   | 6.7   | 6.7   | 8.1   | 8.1   |
| 87.5° | 10.8   | 9.4    | 10.8   | 10.8   | 8.1    | 9.4    | 5.4   | 5.4   | 5.4   | 6.7   | 6.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



REPORT NUMBER: P165259

CATALOG NUMBER: VST-E04-LED-E-U-SL3-HSS-7060

**CANDELA DISTRIBUTION (continued):**

|       | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|
| 0°    | 212.2 | 212.2 | 212.2 | 212.2 | 212.2 |
| 2.5°  | 179.8 | 179.8 | 177.1 | 181.2 | 181.2 |
| 5°    | 155.5 | 155.5 | 154.1 | 155.5 | 155.5 |
| 7.5°  | 141.9 | 140.6 | 140.6 | 140.6 | 141.9 |
| 10°   | 129.8 | 128.4 | 128.4 | 128.4 | 128.4 |
| 12.5° | 118.9 | 117.6 | 116.2 | 117.6 | 117.6 |
| 15°   | 109.5 | 106.8 | 106.8 | 106.8 | 106.8 |
| 17.5° | 101.4 | 98.7  | 97.4  | 97.4  | 97.4  |
| 20°   | 93.3  | 89.2  | 89.2  | 89.2  | 89.2  |
| 22.5° | 85.1  | 81.1  | 81.1  | 81.1  | 81.1  |
| 25°   | 77.1  | 73.0  | 73.0  | 73.0  | 73.0  |
| 27.5° | 70.3  | 66.2  | 66.2  | 66.2  | 66.2  |
| 30°   | 62.2  | 59.5  | 59.5  | 60.8  | 59.5  |
| 32.5° | 56.8  | 52.7  | 52.7  | 54.1  | 54.1  |
| 35°   | 50.0  | 47.3  | 47.3  | 47.3  | 47.3  |
| 37.5° | 43.3  | 40.6  | 40.6  | 40.6  | 40.6  |
| 40°   | 37.8  | 35.1  | 33.8  | 35.1  | 35.1  |
| 42.5° | 32.4  | 29.7  | 28.4  | 28.4  | 28.4  |
| 45°   | 28.4  | 24.3  | 23.0  | 24.3  | 24.3  |
| 47.5° | 23.0  | 20.3  | 20.3  | 21.6  | 21.6  |
| 50°   | 17.6  | 17.6  | 19.0  | 21.6  | 21.6  |
| 52.5° | 16.3  | 16.3  | 19.0  | 21.6  | 21.6  |
| 55°   | 14.9  | 16.3  | 19.0  | 20.3  | 21.6  |
| 57.5° | 13.5  | 16.3  | 19.0  | 20.3  | 20.3  |
| 60°   | 13.5  | 14.9  | 17.6  | 20.3  | 20.3  |
| 62.5° | 12.1  | 13.5  | 16.3  | 19.0  | 19.0  |
| 65°   | 12.1  | 13.5  | 16.3  | 19.0  | 19.0  |
| 66°   | 12.1  | 13.5  | 16.3  | 19.0  | 19.0  |
| 67.5° | 12.1  | 13.5  | 16.3  | 19.0  | 19.0  |
| 70°   | 12.1  | 13.5  | 16.3  | 17.6  | 17.6  |
| 72.5° | 10.8  | 12.1  | 14.9  | 17.6  | 17.6  |
| 75°   | 10.8  | 12.1  | 14.9  | 17.6  | 17.6  |
| 77.5° | 10.8  | 12.1  | 14.9  | 17.6  | 17.6  |
| 80°   | 10.8  | 12.1  | 14.9  | 16.3  | 17.6  |
| 82.5° | 9.4   | 12.1  | 13.5  | 16.3  | 16.3  |
| 85°   | 9.4   | 10.8  | 13.5  | 14.9  | 16.3  |
| 87.5° | 8.1   | 9.4   | 10.8  | 13.5  | 13.5  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)