

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: P165098

Luminaire Tested: **VST-E10-LED-E-U-SL2-HSS-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P165098  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E10-LED-E-U-SL2-HSS-7050  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (210) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18589.6 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1' x H: 0.1')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 247.7  
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

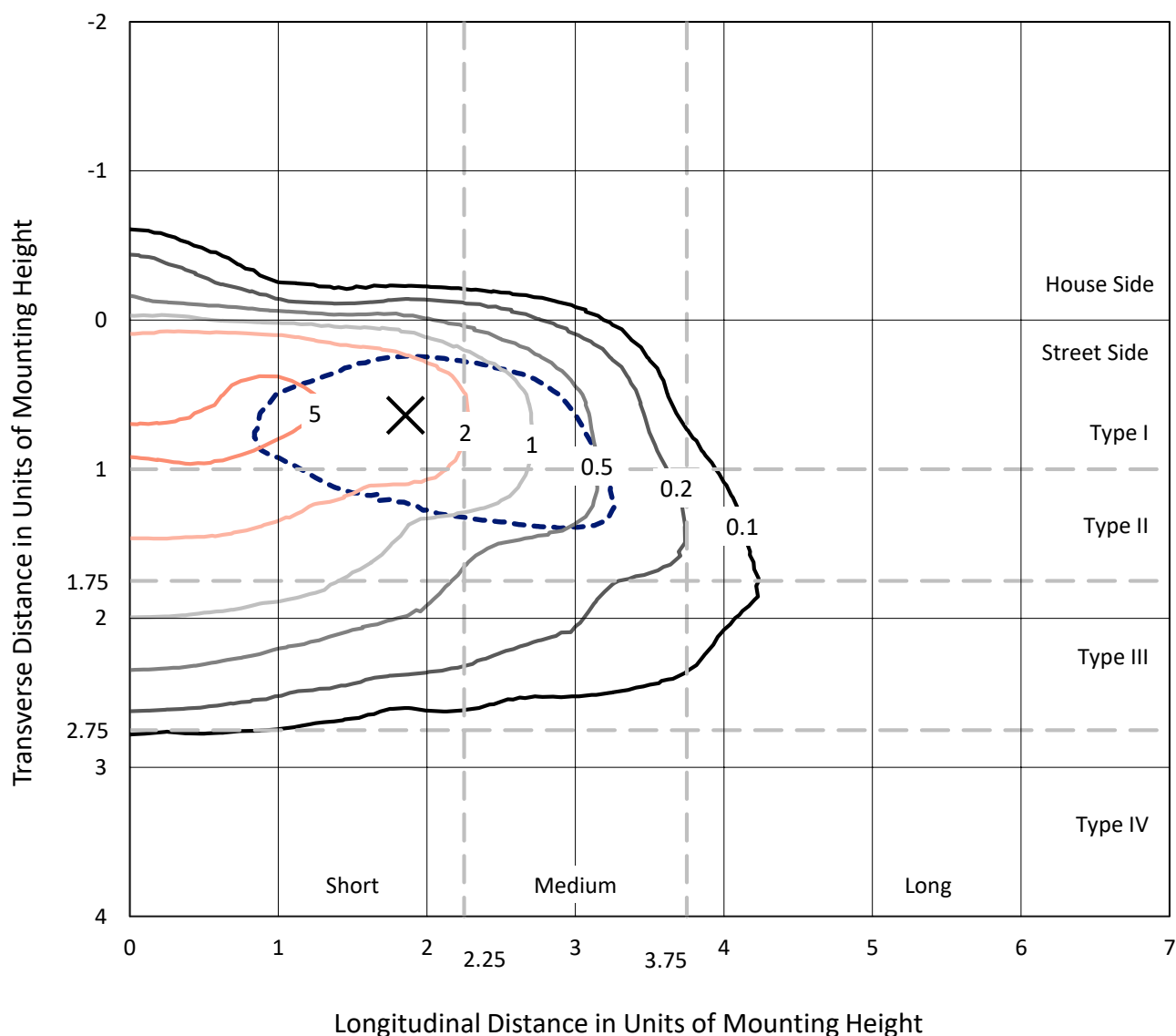


REPORT NUMBER: P165098

CATALOG NUMBER: VST-E10-LED-E-U-SL2-HSS-7050

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

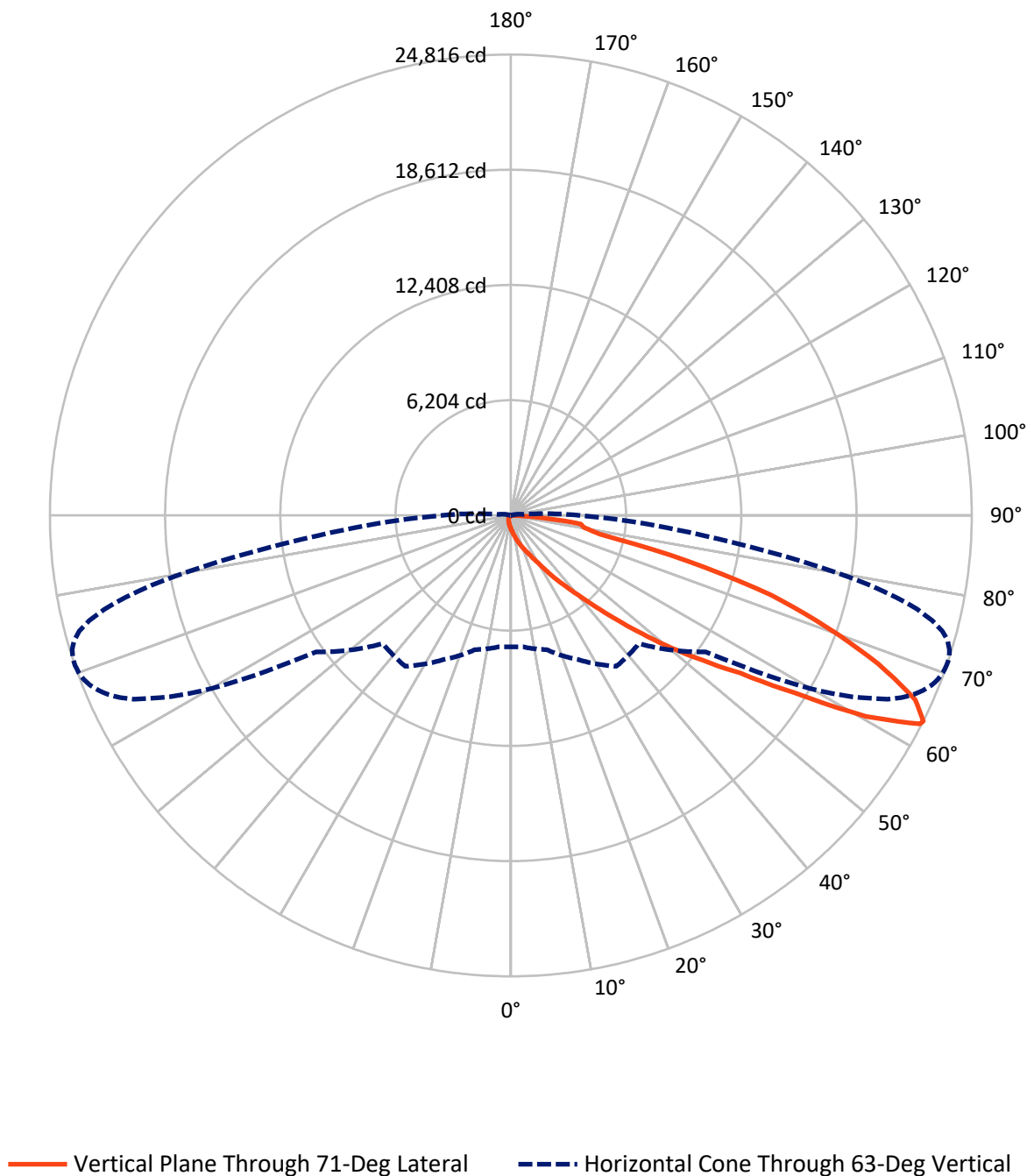


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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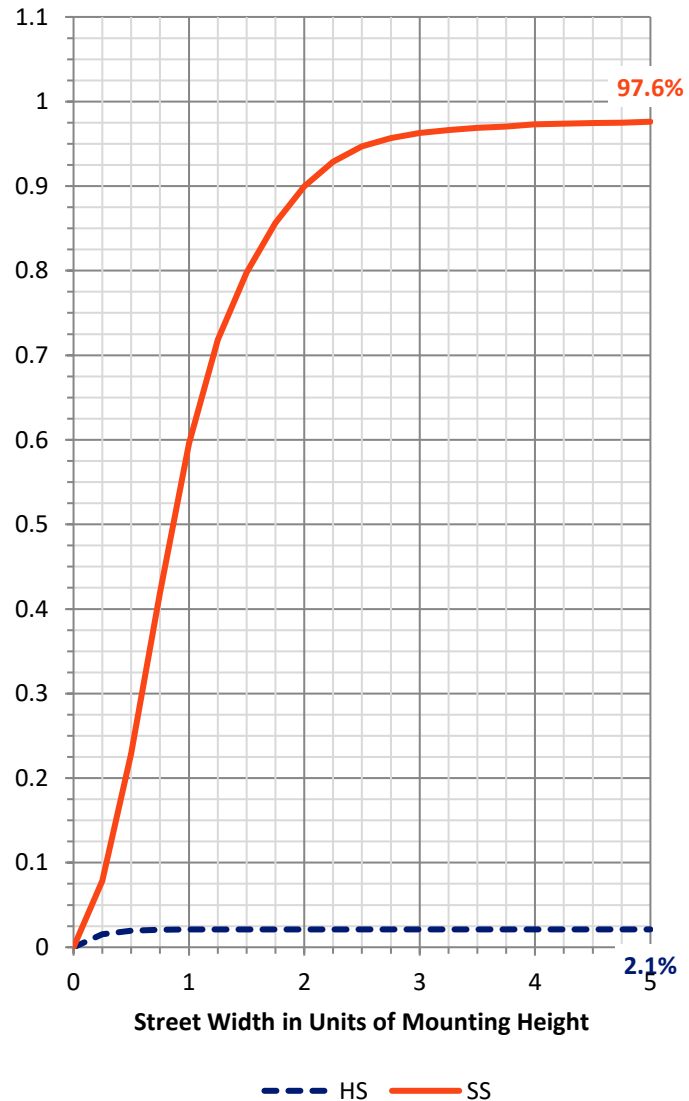
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 394.7    | 0.0    | 394.7   |
|                    | % Fixture | 2.1      | 0.0    | 2.1     |
| <b>Street Side</b> | Lumens    | 18194.9  | 0.0    | 18194.9 |
|                    | % Fixture | 97.9     | 0.0    | 97.9    |
| <b>Total</b>       | Lumens    | 18589.6  | 0.0    | 18589.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 78.8    | 0.4       |
| 10°-20°   | 305.7   | 1.6       |
| 20°-30°   | 620.8   | 3.3       |
| 30°-40°   | 1516.8  | 8.2       |
| 40°-50°   | 3392.3  | 18.2      |
| 50°-60°   | 4769.9  | 25.7      |
| 60°-70°   | 5609.0  | 30.2      |
| 70°-80°   | 2025.4  | 10.9      |
| 80°-90°   | 270.8   | 1.5       |
| 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°    | 18589.6 | 100.0     |
| 0°-180°   | 18589.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P165098

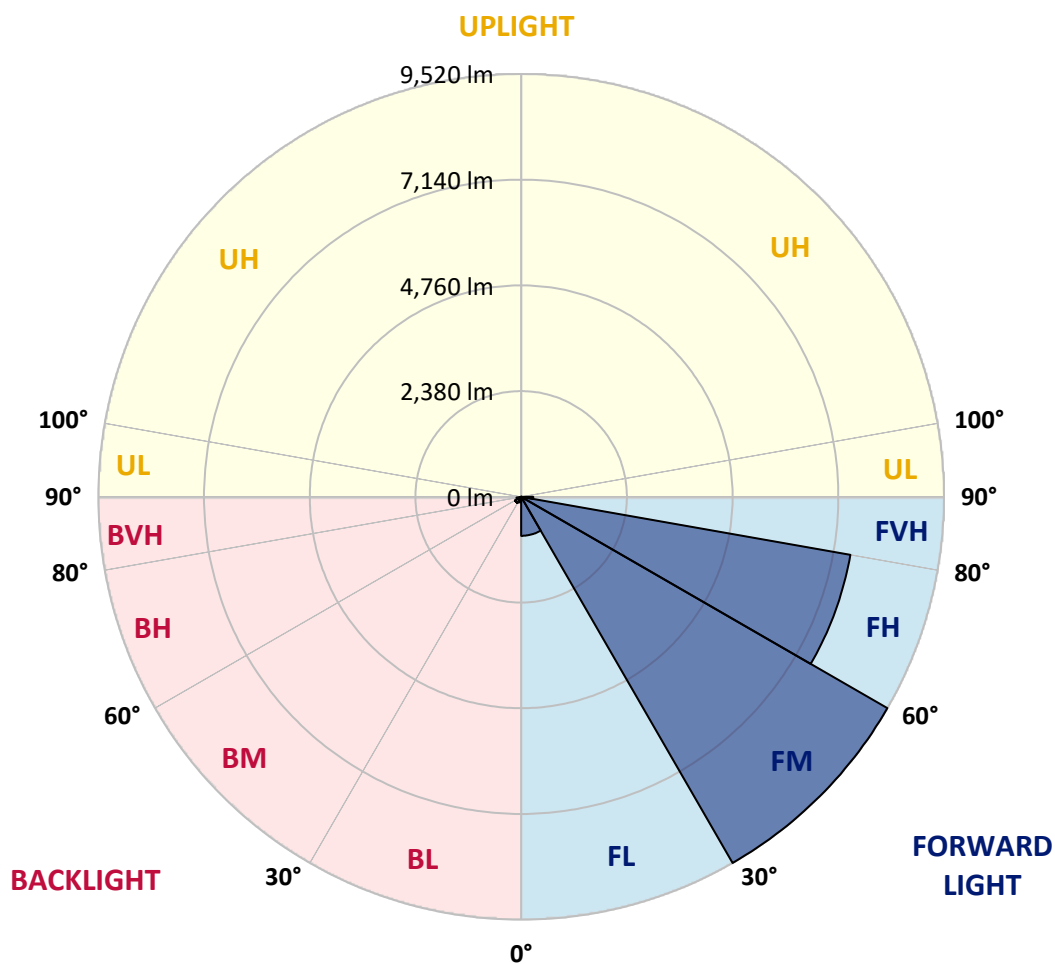
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 878.4  | 4.7       |                         |      |          |
| FM   | (30°-60°)   | 9520.0 | 51.2      |                         |      |          |
| FH   | (60°-80°)   | 7526.2 | 40.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 270.3  | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 126.9  | 0.7       | B1/500                  |      |          |
| BM   | (30°-60°)   | 159.0  | 0.9       | B0/220                  |      |          |
| BH   | (60°-80°)   | 108.2  | 0.6       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 0.6    | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B1-U0-G4**

Type II Short





REPORT NUMBER: P165098

CATALOG NUMBER: VST-E10-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 713.1  | 713.1  | 713.1  | 713.1  | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   |
| 2.5°  | 932.7  | 942.8  | 936.0  | 919.2  | 898.9   | 872.0   | 848.2   | 848.2   | 844.9   | 834.6   | 838.1   |
| 5°    | 1223.3 | 1226.8 | 1213.3 | 1172.6 | 1135.5  | 1078.0  | 1013.8  | 1007.0  | 1000.2  | 990.2   | 986.9   |
| 7.5°  | 1507.3 | 1520.7 | 1507.3 | 1463.2 | 1388.9  | 1301.1  | 1199.7  | 1189.7  | 1169.3  | 1169.3  | 1155.8  |
| 10°   | 1797.9 | 1797.9 | 1784.4 | 1733.7 | 1666.0  | 1541.0  | 1412.5  | 1395.7  | 1372.1  | 1365.3  | 1345.0  |
| 12.5° | 2004.0 | 2004.0 | 1997.2 | 1970.3 | 1916.1  | 1804.7  | 1649.2  | 1632.3  | 1602.0  | 1591.7  | 1568.1  |
| 15°   | 2085.0 | 2085.0 | 2088.5 | 2112.1 | 2115.6  | 2064.9  | 1902.6  | 1889.1  | 1858.7  | 1831.6  | 1821.5  |
| 17.5° | 2135.7 | 2132.5 | 2132.5 | 2166.3 | 2227.1  | 2260.9  | 2156.1  | 2142.5  | 2108.9  | 2095.3  | 2061.4  |
| 20°   | 2247.4 | 2240.6 | 2220.3 | 2220.3 | 2277.7  | 2396.0  | 2396.0  | 2392.7  | 2355.5  | 2345.3  | 2328.4  |
| 22.5° | 2413.0 | 2406.2 | 2345.3 | 2294.6 | 2321.7  | 2470.5  | 2609.0  | 2602.2  | 2588.7  | 2575.1  | 2565.1  |
| 25°   | 2683.3 | 2659.7 | 2554.8 | 2406.2 | 2382.6  | 2541.5  | 2771.1  | 2788.1  | 2798.2  | 2798.2  | 2805.0  |
| 27.5° | 3092.3 | 3061.9 | 2876.0 | 2598.9 | 2494.1  | 2656.2  | 2950.3  | 2984.1  | 3014.5  | 3021.3  | 3051.6  |
| 30°   | 3659.9 | 3605.9 | 3338.9 | 2933.4 | 2693.5  | 2825.3  | 3214.0  | 3251.1  | 3295.0  | 3308.6  | 3355.8  |
| 32.5° | 4592.6 | 4562.3 | 4305.5 | 3697.1 | 3183.4  | 3156.5  | 3582.3  | 3629.5  | 3687.0  | 3710.6  | 3768.1  |
| 35°   | 6012.2 | 6018.9 | 5809.4 | 5261.9 | 4552.2  | 4180.4  | 4241.3  | 4281.7  | 4302.0  | 4373.1  | 4403.4  |
| 37.5° | 6975.3 | 6992.1 | 7039.5 | 6823.2 | 6316.3  | 5937.7  | 5461.1  | 5505.3  | 5400.4  | 5410.4  | 5413.9  |
| 40°   | 7502.5 | 7556.4 | 7833.7 | 8043.2 | 8002.6  | 7783.0  | 7401.1  | 7424.7  | 7228.7  | 7184.8  | 6971.8  |
| 42.5° | 7853.8 | 7924.8 | 8367.7 | 9016.4 | 9347.6  | 9547.1  | 9459.3  | 9449.0  | 9296.9  | 9239.5  | 9060.3  |
| 45°   | 8073.6 | 8137.8 | 8695.4 | 9651.8 | 10415.6 | 10996.8 | 11236.7 | 11263.8 | 11135.3 | 11077.8 | 10929.3 |
| 47.5° | 8063.3 | 8137.8 | 8735.9 | 9888.4 | 11013.8 | 11943.0 | 12619.0 | 12652.7 | 12730.5 | 12679.8 | 12689.8 |
| 50°   | 7617.4 | 7688.4 | 8289.9 | 9486.1 | 10837.9 | 12375.7 | 13612.5 | 13720.7 | 13845.7 | 13930.2 | 13970.8 |
| 52.5° | 7076.6 | 7127.3 | 7661.3 | 8796.8 | 10087.6 | 12196.5 | 14200.5 | 14386.4 | 14572.3 | 14731.2 | 14842.6 |
| 55°   | 6877.2 | 6934.6 | 7353.7 | 8296.7 | 9486.1  | 11446.2 | 14474.2 | 14748.0 | 15011.7 | 15271.9 | 15484.8 |
| 57.5° | 6982.0 | 7036.0 | 7336.9 | 8060.1 | 9128.0  | 10655.5 | 14552.0 | 14977.9 | 15410.5 | 15832.8 | 16251.9 |
| 60°   | 7367.2 | 7424.7 | 7681.6 | 8279.6 | 9033.4  | 10199.3 | 14247.9 | 14954.3 | 15674.0 | 16410.7 | 17103.5 |
| 62.5° | 7215.2 | 7238.8 | 7617.4 | 8665.1 | 9709.2  | 9810.6  | 13142.8 | 14129.7 | 15228.0 | 16363.5 | 17482.0 |
| 63°   | 7069.9 | 7097.0 | 7482.2 | 8560.2 | 9915.5  | 9753.1  | 12801.5 | 13842.4 | 15001.5 | 16224.8 | 17441.5 |
| 65°   | 6410.9 | 6414.2 | 6708.3 | 7559.9 | 9685.6  | 9854.5  | 11280.8 | 12274.3 | 13605.7 | 15072.5 | 16610.2 |
| 67.5° | 4785.3 | 4761.7 | 5045.6 | 5694.5 | 7603.9  | 9858.0  | 9682.1  | 10239.9 | 11165.9 | 12467.0 | 13845.7 |
| 70°   | 1696.6 | 1659.4 | 2118.9 | 3017.8 | 4737.9  | 8063.3  | 8320.3  | 8357.4  | 8614.4  | 9317.2  | 10182.5 |
| 72.5° | 550.8  | 561.1  | 675.8  | 1105.1 | 2183.1  | 5427.5  | 7532.8  | 7417.9  | 7350.4  | 7346.9  | 7461.8  |
| 75°   | 219.6  | 223.1  | 270.3  | 490.1  | 980.1   | 2615.7  | 6596.8  | 6660.9  | 6684.7  | 6718.3  | 6755.7  |
| 77.5° | 104.7  | 114.9  | 152.1  | 273.8  | 486.6   | 1294.3  | 4721.1  | 5265.2  | 5576.1  | 5816.2  | 5961.5  |
| 80°   | 37.1   | 43.9   | 84.6   | 168.9  | 226.4   | 594.7   | 2487.3  | 3000.9  | 3457.2  | 4045.3  | 4552.2  |
| 82.5° | 0.0    | 0.0    | 16.8   | 118.2  | 125.0   | 239.9   | 1020.6  | 1196.2  | 1368.6  | 1774.1  | 2277.7  |
| 85°   | 0.0    | 0.0    | 0.0    | 33.9   | 37.1    | 40.6    | 344.8   | 415.8   | 466.5   | 544.0   | 628.6   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 3.3     | 10.1    | 20.3    | 50.7    | 77.8    |
| 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: P165098

CATALOG NUMBER: VST-E10-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 60°     | 61°     | 62°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     | 71°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   |
| 2.5°  | 831.4   | 828.1   | 828.1   | 821.3   | 817.8   | 811.0   | 807.8   | 797.5   | 794.2   | 794.2   | 794.2   |
| 5°    | 983.4   | 969.9   | 963.1   | 946.3   | 936.0   | 932.7   | 915.9   | 909.1   | 898.9   | 902.4   | 885.3   |
| 7.5°  | 1152.3  | 1128.7  | 1118.7  | 1094.9  | 1088.3  | 1064.5  | 1057.7  | 1040.9  | 1030.8  | 1010.5  | 1003.7  |
| 10°   | 1338.2  | 1307.9  | 1291.0  | 1253.7  | 1243.6  | 1226.8  | 1206.5  | 1186.2  | 1169.3  | 1149.0  | 1139.0  |
| 12.5° | 1551.3  | 1524.2  | 1510.6  | 1459.9  | 1436.3  | 1412.5  | 1385.7  | 1358.6  | 1331.5  | 1314.6  | 1291.0  |
| 15°   | 1801.2  | 1757.3  | 1743.8  | 1696.6  | 1655.9  | 1625.6  | 1588.4  | 1554.5  | 1534.2  | 1500.6  | 1476.8  |
| 17.5° | 2047.9  | 2004.0  | 1993.9  | 1922.9  | 1879.0  | 1858.7  | 1818.3  | 1774.1  | 1737.0  | 1703.3  | 1666.0  |
| 20°   | 2294.6  | 2264.2  | 2237.1  | 2169.6  | 2122.4  | 2088.5  | 2034.4  | 1990.4  | 1960.1  | 1912.9  | 1865.5  |
| 22.5° | 2541.5  | 2510.9  | 2490.8  | 2419.8  | 2375.8  | 2328.4  | 2281.2  | 2233.8  | 2189.9  | 2132.5  | 2078.5  |
| 25°   | 2794.9  | 2774.6  | 2764.3  | 2700.3  | 2659.7  | 2615.7  | 2568.3  | 2514.4  | 2460.2  | 2396.0  | 2338.7  |
| 27.5° | 3058.4  | 3065.2  | 3044.9  | 3031.3  | 2987.4  | 2957.0  | 2882.7  | 2845.6  | 2805.0  | 2727.2  | 2656.2  |
| 30°   | 3392.9  | 3413.2  | 3406.5  | 3416.7  | 3389.6  | 3369.3  | 3311.9  | 3264.7  | 3217.3  | 3143.0  | 3061.9  |
| 32.5° | 3815.5  | 3842.6  | 3855.9  | 3893.2  | 3879.7  | 3872.9  | 3855.9  | 3788.4  | 3754.5  | 3626.3  | 3592.4  |
| 35°   | 4467.7  | 4454.1  | 4511.6  | 4542.0  | 4528.4  | 4521.8  | 4501.5  | 4464.4  | 4423.7  | 4332.4  | 4248.1  |
| 37.5° | 5315.8  | 5329.4  | 5349.7  | 5289.0  | 5248.3  | 5245.0  | 5184.1  | 5146.9  | 5089.5  | 4988.1  | 4886.7  |
| 40°   | 6870.4  | 6786.0  | 6691.4  | 6434.5  | 6323.1  | 6258.8  | 6079.7  | 6029.0  | 5930.9  | 5792.4  | 5687.7  |
| 42.5° | 8891.4  | 8806.9  | 8523.0  | 8093.9  | 7864.1  | 7546.4  | 7401.1  | 7221.9  | 7083.4  | 6857.1  | 6735.4  |
| 45°   | 10898.9 | 10655.5 | 10621.6 | 10121.5 | 9837.7  | 9418.6  | 9158.4  | 8857.5  | 8543.4  | 8246.0  | 8029.7  |
| 47.5° | 12592.0 | 12537.8 | 12372.4 | 12068.0 | 11804.5 | 11453.0 | 11118.5 | 10655.5 | 10331.0 | 9908.7  | 9520.0  |
| 50°   | 13947.0 | 13943.7 | 13882.8 | 13707.1 | 13487.5 | 13203.7 | 12909.6 | 12517.7 | 12149.3 | 11632.1 | 11216.6 |
| 52.5° | 14961.0 | 15015.0 | 15035.3 | 14981.1 | 14896.8 | 14646.6 | 14498.0 | 14170.1 | 13859.2 | 13419.8 | 12970.4 |
| 55°   | 15704.3 | 15903.8 | 16005.2 | 16120.1 | 16096.5 | 16008.7 | 16001.9 | 15788.9 | 15647.1 | 15298.8 | 14981.1 |
| 57.5° | 16623.7 | 16951.5 | 17265.7 | 17823.5 | 17843.6 | 18039.8 | 18141.1 | 18242.5 | 18269.4 | 18130.9 | 18026.2 |
| 60°   | 17792.9 | 18462.1 | 19056.8 | 20222.9 | 20527.0 | 21006.8 | 21317.8 | 21655.8 | 21942.9 | 21966.7 | 21959.9 |
| 62.5° | 18617.5 | 19648.3 | 20608.1 | 22338.3 | 22929.8 | 23484.1 | 23899.6 | 24227.6 | 24426.9 | 24629.6 | 24724.2 |
| 63°   | 18641.3 | 19770.0 | 20790.5 | 22574.9 | 23196.8 | 23724.0 | 24119.4 | 24423.6 | 24633.1 | 24754.6 | 24815.5 |
| 65°   | 18070.1 | 19438.7 | 20655.3 | 22432.9 | 23017.6 | 23548.3 | 23754.3 | 23953.8 | 24055.2 | 24102.4 | 23923.2 |
| 67.5° | 15315.9 | 16654.1 | 18073.4 | 20060.6 | 20560.7 | 21196.1 | 21365.2 | 21466.5 | 21513.7 | 21503.7 | 21351.6 |
| 70°   | 11453.0 | 12575.1 | 14153.3 | 16424.3 | 17086.7 | 17708.5 | 18093.7 | 18259.3 | 18313.3 | 18296.5 | 18070.1 |
| 72.5° | 7995.8  | 8654.8  | 9955.9  | 12483.8 | 13386.2 | 14183.7 | 14660.2 | 14906.8 | 14957.5 | 14856.2 | 14646.6 |
| 75°   | 6715.0  | 6748.9  | 7042.8  | 8424.9  | 9269.8  | 10121.5 | 10658.8 | 10814.3 | 10713.0 | 10405.3 | 9871.5  |
| 77.5° | 5995.1  | 6069.6  | 6069.6  | 6275.7  | 6441.3  | 6677.9  | 6728.6  | 6350.0  | 5910.8  | 5342.9  | 4883.4  |
| 80°   | 5028.7  | 5289.0  | 5471.4  | 5623.5  | 5640.3  | 5593.1  | 5467.9  | 5255.1  | 4917.1  | 4484.5  | 4004.7  |
| 82.5° | 3055.1  | 3568.8  | 3778.3  | 4562.3  | 4947.5  | 5207.7  | 5187.6  | 4903.6  | 4646.8  | 4197.4  | 3788.4  |
| 85°   | 770.6   | 831.4   | 902.4   | 1172.6  | 1314.6  | 1605.2  | 1787.7  | 1872.2  | 1902.6  | 1747.3  | 1581.6  |
| 87.5° | 74.3    | 50.7    | 84.6    | 64.2    | 91.3    | 67.5    | 91.3    | 84.6    | 104.7   | 111.4   | 121.7   |
| 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: P165098

CATALOG NUMBER: VST-E10-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 72°     | 73°     | 74°     | 75°     | 76°     | 77°     | 78°     | 79°     | 80°     | 81°     | 82°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   | 713.1   |
| 2.5°  | 787.4   | 783.9   | 780.7   | 777.4   | 773.9   | 770.6   | 763.8   | 763.8   | 757.1   | 753.6   | 750.3   |
| 5°    | 875.3   | 868.5   | 865.2   | 858.4   | 848.2   | 841.4   | 831.4   | 817.8   | 807.8   | 804.3   | 797.5   |
| 7.5°  | 986.9   | 969.9   | 963.1   | 953.0   | 939.5   | 919.2   | 905.6   | 895.6   | 878.8   | 868.5   | 848.2   |
| 10°   | 1111.9  | 1094.9  | 1074.7  | 1054.4  | 1034.1  | 1010.5  | 993.5   | 980.1   | 953.0   | 939.5   | 915.9   |
| 12.5° | 1270.7  | 1240.4  | 1216.6  | 1189.7  | 1162.6  | 1135.5  | 1115.2  | 1074.7  | 1050.9  | 1020.6  | 1000.2  |
| 15°   | 1432.9  | 1405.8  | 1378.9  | 1345.0  | 1304.4  | 1260.5  | 1240.4  | 1203.0  | 1172.6  | 1125.4  | 1098.3  |
| 17.5° | 1628.8  | 1578.2  | 1537.7  | 1497.1  | 1459.9  | 1419.3  | 1378.9  | 1321.4  | 1277.5  | 1236.9  | 1182.9  |
| 20°   | 1821.5  | 1760.8  | 1716.7  | 1662.7  | 1608.7  | 1544.5  | 1497.1  | 1456.5  | 1395.7  | 1341.7  | 1284.3  |
| 22.5° | 2027.6  | 1966.8  | 1895.8  | 1841.9  | 1767.6  | 1716.7  | 1652.6  | 1584.9  | 1524.2  | 1453.2  | 1382.2  |
| 25°   | 2277.7  | 2213.5  | 2132.5  | 2061.4  | 1976.9  | 1906.1  | 1828.3  | 1750.5  | 1676.2  | 1595.2  | 1503.9  |
| 27.5° | 2585.4  | 2517.7  | 2429.8  | 2345.3  | 2233.8  | 2146.0  | 2071.7  | 1966.8  | 1872.2  | 1770.9  | 1666.0  |
| 30°   | 2973.9  | 2899.6  | 2791.4  | 2669.7  | 2558.3  | 2460.2  | 2355.5  | 2217.0  | 2112.1  | 1990.4  | 1855.4  |
| 32.5° | 3481.0  | 3392.9  | 3247.6  | 3132.7  | 2994.2  | 2865.7  | 2720.4  | 2581.9  | 2433.3  | 2274.5  | 2118.9  |
| 35°   | 4119.6  | 4038.5  | 3869.4  | 3700.5  | 3548.5  | 3396.4  | 3214.0  | 3055.1  | 2845.6  | 2652.9  | 2453.4  |
| 37.5° | 4782.1  | 4636.6  | 4481.2  | 4298.8  | 4109.3  | 3926.9  | 3703.8  | 3484.2  | 3244.3  | 3034.8  | 2784.6  |
| 40°   | 5538.9  | 5363.2  | 5234.8  | 5038.8  | 4771.8  | 4511.6  | 4305.5  | 4031.8  | 3730.9  | 3450.4  | 3156.5  |
| 42.5° | 6576.5  | 6380.5  | 6150.7  | 5853.3  | 5660.6  | 5356.5  | 5089.5  | 4765.0  | 4369.6  | 4055.4  | 3700.5  |
| 45°   | 7776.2  | 7509.2  | 7286.2  | 6998.9  | 6765.7  | 6387.3  | 6076.4  | 5643.8  | 5248.3  | 4836.0  | 4403.4  |
| 47.5° | 9144.9  | 8813.6  | 8489.2  | 8205.4  | 7833.7  | 7461.8  | 7066.6  | 6606.9  | 6100.0  | 5647.1  | 5133.4  |
| 50°   | 10716.2 | 10246.5 | 9797.0  | 9432.2  | 8921.8  | 8492.7  | 8063.3  | 7546.4  | 6985.3  | 6464.9  | 5880.2  |
| 52.5° | 12463.5 | 11919.4 | 11324.7 | 10763.6 | 10172.2 | 9621.4  | 9104.2  | 8509.5  | 7884.4  | 7249.0  | 6596.8  |
| 55°   | 14572.3 | 14163.3 | 13463.9 | 12750.8 | 11959.9 | 11223.3 | 10557.4 | 9820.9  | 9060.3  | 8225.7  | 7539.6  |
| 57.5° | 17874.1 | 17674.7 | 17090.0 | 16377.1 | 15346.2 | 14450.6 | 13321.9 | 12419.6 | 11317.9 | 10168.9 | 9283.4  |
| 60°   | 22348.6 | 22101.7 | 21774.0 | 21196.1 | 20378.2 | 19161.7 | 17918.1 | 16515.6 | 14839.3 | 13247.6 | 11737.0 |
| 62.5° | 24734.5 | 24646.4 | 24379.6 | 23980.7 | 23217.1 | 22257.3 | 21003.6 | 19462.3 | 17570.0 | 15636.8 | 13710.6 |
| 63°   | 24805.3 | 24693.8 | 24464.0 | 24058.5 | 23386.0 | 22456.7 | 21226.4 | 19729.3 | 17877.4 | 15907.3 | 13940.3 |
| 65°   | 23845.7 | 23801.7 | 23568.4 | 23125.7 | 22666.3 | 21956.4 | 21003.6 | 19715.8 | 18161.2 | 16299.3 | 14342.5 |
| 67.5° | 21148.9 | 21016.9 | 20658.8 | 20523.5 | 20202.6 | 19709.0 | 18982.5 | 18097.0 | 16985.3 | 15521.9 | 13832.1 |
| 70°   | 17887.5 | 17691.5 | 17242.1 | 17002.2 | 16610.2 | 16299.3 | 15856.6 | 15224.5 | 14538.5 | 13517.9 | 12257.4 |
| 72.5° | 14430.3 | 14024.8 | 13612.5 | 12987.4 | 12439.9 | 11885.6 | 11395.5 | 10949.6 | 10195.8 | 9783.5  | 8827.2  |
| 75°   | 9371.2  | 8634.5  | 7928.3  | 6982.0  | 6130.4  | 5376.8  | 4643.3  | 4271.7  | 3497.8  | 3183.4  | 2734.0  |
| 77.5° | 4447.3  | 4035.1  | 3481.0  | 3051.6  | 2504.1  | 2044.6  | 1669.5  | 1253.7  | 983.4   | 770.6   | 588.0   |
| 80°   | 3588.9  | 3240.9  | 2906.3  | 2517.7  | 2105.4  | 1679.5  | 1287.6  | 963.1   | 682.6   | 473.0   | 334.5   |
| 82.5° | 3200.4  | 2821.8  | 2409.5  | 2142.5  | 1862.2  | 1524.2  | 1250.4  | 1020.6  | 753.6   | 550.8   | 375.1   |
| 85°   | 1243.6  | 1047.7  | 807.8   | 659.0   | 513.7   | 422.3   | 381.9   | 263.5   | 206.2   | 162.1   | 125.0   |
| 87.5° | 108.2   | 87.8    | 71.0    | 47.4    | 50.7    | 27.1    | 30.4    | 20.3    | 16.8    | 16.8    | 13.5    |
| 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: P165098

CATALOG NUMBER: VST-E10-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 83°     | 84°     | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    | 95°   | 105°  | 115°  |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 713.1   | 713.1   | 713.1  | 713.1  | 713.1  | 713.1  | 713.1  | 713.1  | 713.1 | 713.1 | 713.1 |
| 2.5°  | 746.8   | 743.5   | 740.0  | 733.3  | 733.3  | 726.7  | 723.2  | 719.9  | 702.9 | 665.7 | 635.4 |
| 5°    | 783.9   | 777.4   | 770.6  | 760.3  | 753.6  | 743.5  | 736.7  | 726.7  | 689.3 | 618.5 | 557.6 |
| 7.5°  | 838.1   | 824.6   | 814.5  | 794.2  | 783.9  | 770.6  | 760.3  | 743.5  | 682.6 | 574.4 | 490.1 |
| 10°   | 902.4   | 878.8   | 861.7  | 838.1  | 817.8  | 801.0  | 783.9  | 760.3  | 675.8 | 527.2 | 429.1 |
| 12.5° | 980.1   | 953.0   | 919.2  | 892.1  | 865.2  | 841.4  | 817.8  | 787.4  | 665.7 | 486.6 | 381.9 |
| 15°   | 1057.7  | 1017.3  | 993.5  | 956.3  | 919.2  | 885.3  | 851.7  | 824.6  | 669.2 | 442.7 | 341.3 |
| 17.5° | 1145.5  | 1105.1  | 1054.4 | 1013.8 | 973.4  | 929.4  | 888.8  | 834.6  | 652.2 | 409.0 | 310.9 |
| 20°   | 1230.1  | 1172.6  | 1125.4 | 1074.7 | 1017.3 | 963.1  | 912.4  | 865.2  | 638.6 | 375.1 | 283.8 |
| 22.5° | 1321.4  | 1253.7  | 1193.0 | 1128.7 | 1057.7 | 997.0  | 936.0  | 875.3  | 615.0 | 344.8 | 260.2 |
| 25°   | 1432.9  | 1355.1  | 1267.2 | 1189.7 | 1115.2 | 1040.9 | 963.1  | 888.8  | 591.4 | 317.7 | 243.4 |
| 27.5° | 1568.1  | 1466.7  | 1378.9 | 1280.8 | 1176.1 | 1081.5 | 997.0  | 915.9  | 567.8 | 297.4 | 226.4 |
| 30°   | 1740.5  | 1622.1  | 1497.1 | 1372.1 | 1260.5 | 1152.3 | 1034.1 | 932.7  | 544.0 | 277.0 | 209.5 |
| 32.5° | 1970.3  | 1821.5  | 1669.5 | 1524.2 | 1375.4 | 1236.9 | 1111.9 | 980.1  | 530.5 | 260.2 | 192.7 |
| 35°   | 2274.5  | 2081.8  | 1895.8 | 1713.4 | 1534.2 | 1365.3 | 1203.0 | 1054.4 | 530.5 | 239.9 | 172.4 |
| 37.5° | 2561.6  | 2338.7  | 2102.1 | 1875.5 | 1662.7 | 1466.7 | 1274.0 | 1094.9 | 503.6 | 223.1 | 155.6 |
| 40°   | 2872.5  | 2605.5  | 2328.4 | 2061.4 | 1804.7 | 1561.3 | 1341.7 | 1135.5 | 479.8 | 202.8 | 138.5 |
| 42.5° | 3349.0  | 3011.2  | 2649.6 | 2338.7 | 2031.1 | 1730.2 | 1456.5 | 1213.3 | 449.4 | 182.4 | 121.7 |
| 45°   | 3974.3  | 3545.0  | 3119.4 | 2740.7 | 2348.8 | 1980.4 | 1655.9 | 1355.1 | 442.7 | 165.6 | 104.7 |
| 47.5° | 4643.3  | 4136.4  | 3636.3 | 3153.0 | 2693.5 | 2264.2 | 1875.5 | 1513.9 | 442.7 | 148.8 | 91.3  |
| 50°   | 5309.1  | 4673.9  | 4139.9 | 3578.9 | 3061.9 | 2554.8 | 2091.8 | 1679.5 | 446.2 | 135.2 | 74.3  |
| 52.5° | 5910.8  | 5231.5  | 4633.3 | 3984.4 | 3413.2 | 2825.3 | 2321.7 | 1841.9 | 439.4 | 118.2 | 60.7  |
| 55°   | 6745.4  | 5947.9  | 5255.1 | 4538.7 | 3869.4 | 3207.2 | 2636.1 | 2085.0 | 442.7 | 104.7 | 50.7  |
| 57.5° | 8283.1  | 7346.9  | 6512.3 | 5572.8 | 4802.2 | 3947.2 | 3254.4 | 2585.4 | 483.3 | 87.8  | 37.1  |
| 60°   | 10489.9 | 9273.3  | 8100.7 | 6954.9 | 5975.0 | 4957.7 | 4058.7 | 3271.4 | 567.8 | 71.0  | 27.1  |
| 62.5° | 11973.4 | 10381.7 | 8982.7 | 7718.8 | 6579.8 | 5515.3 | 4535.2 | 3639.6 | 625.1 | 57.5  | 16.8  |
| 63°   | 12125.5 | 10479.8 | 9073.9 | 7769.5 | 6606.9 | 5542.4 | 4555.5 | 3666.7 | 628.6 | 54.0  | 16.8  |
| 65°   | 12412.8 | 10648.7 | 9124.5 | 7779.5 | 6579.8 | 5505.3 | 4542.0 | 3663.4 | 635.4 | 43.9  | 13.5  |
| 67.5° | 12085.1 | 10388.5 | 8830.7 | 7488.9 | 6343.2 | 5285.5 | 4373.1 | 3528.2 | 631.9 | 30.4  | 10.1  |
| 70°   | 10807.6 | 9401.8  | 8033.0 | 6782.6 | 5741.7 | 4785.3 | 3981.1 | 3217.3 | 581.2 | 20.3  | 6.8   |
| 72.5° | 7935.1  | 6978.5  | 5917.6 | 5015.2 | 4325.7 | 3592.4 | 3065.2 | 2416.3 | 449.4 | 13.5  | 3.3   |
| 75°   | 2352.0  | 2142.5  | 1801.2 | 1588.4 | 1402.5 | 1159.1 | 1030.8 | 804.3  | 229.8 | 6.8   | 0.0   |
| 77.5° | 469.8   | 425.8   | 381.9  | 348.1  | 327.7  | 280.5  | 267.0  | 219.6  | 94.6  | 3.3   | 0.0   |
| 80°   | 246.7   | 202.8   | 172.4  | 152.1  | 131.8  | 108.2  | 91.3   | 74.3   | 16.8  | 0.0   | 0.0   |
| 82.5° | 236.6   | 158.8   | 114.9  | 94.6   | 81.1   | 64.2   | 50.7   | 37.1   | 10.1  | 0.0   | 0.0   |
| 85°   | 87.8    | 67.5    | 50.7   | 40.6   | 33.9   | 30.4   | 23.6   | 20.3   | 0.0   | 0.0   | 0.0   |
| 87.5° | 13.5    | 10.1    | 10.1   | 6.8    | 6.8    | 3.3    | 3.3    | 3.3    | 0.0   | 0.0   | 0.0   |
| 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: P165098

CATALOG NUMBER: VST-E10-LED-E-U-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 713.1 | 713.1 | 713.1 | 713.1 | 713.1 | 713.1 | 713.1 |
| 2.5°  | 605.0 | 577.9 | 564.4 | 547.5 | 547.5 | 544.0 | 550.8 |
| 5°    | 503.6 | 466.5 | 439.4 | 419.1 | 422.3 | 412.3 | 415.8 |
| 7.5°  | 425.8 | 388.7 | 364.9 | 351.5 | 348.1 | 344.8 | 344.8 |
| 10°   | 368.4 | 334.5 | 314.2 | 304.1 | 300.9 | 300.9 | 300.9 |
| 12.5° | 327.7 | 294.1 | 277.0 | 270.3 | 270.3 | 267.0 | 267.0 |
| 15°   | 294.1 | 267.0 | 250.2 | 243.4 | 243.4 | 239.9 | 243.4 |
| 17.5° | 267.0 | 239.9 | 226.4 | 219.6 | 219.6 | 216.3 | 216.3 |
| 20°   | 243.4 | 219.6 | 206.2 | 196.0 | 196.0 | 192.7 | 196.0 |
| 22.5° | 223.1 | 199.5 | 182.4 | 175.7 | 172.4 | 168.9 | 172.4 |
| 25°   | 202.8 | 179.2 | 162.1 | 152.1 | 148.8 | 148.8 | 145.3 |
| 27.5° | 185.9 | 162.1 | 142.0 | 131.8 | 128.5 | 128.5 | 125.0 |
| 30°   | 168.9 | 142.0 | 121.7 | 111.4 | 108.2 | 108.2 | 108.2 |
| 32.5° | 152.1 | 121.7 | 104.7 | 94.6  | 91.3  | 91.3  | 91.3  |
| 35°   | 135.2 | 104.7 | 87.8  | 77.8  | 74.3  | 74.3  | 74.3  |
| 37.5° | 114.9 | 87.8  | 67.5  | 60.7  | 57.5  | 54.0  | 54.0  |
| 40°   | 98.1  | 67.5  | 50.7  | 43.9  | 37.1  | 37.1  | 37.1  |
| 42.5° | 81.1  | 54.0  | 37.1  | 27.1  | 23.6  | 20.3  | 23.6  |
| 45°   | 67.5  | 40.6  | 23.6  | 13.5  | 10.1  | 10.1  | 10.1  |
| 47.5° | 54.0  | 27.1  | 10.1  | 3.3   | 3.3   | 3.3   | 3.3   |
| 50°   | 40.6  | 16.8  | 3.3   | 0.0   | 0.0   | 3.3   | 3.3   |
| 52.5° | 30.4  | 10.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 16.8  | 3.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 10.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 6.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 3.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 63°   | 3.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 3.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)