

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: P158468

Luminaire Tested: **VST-E07-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P158468  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VST-E07-LED-E-U-SL3-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (147) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17823.5 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 172.5  
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



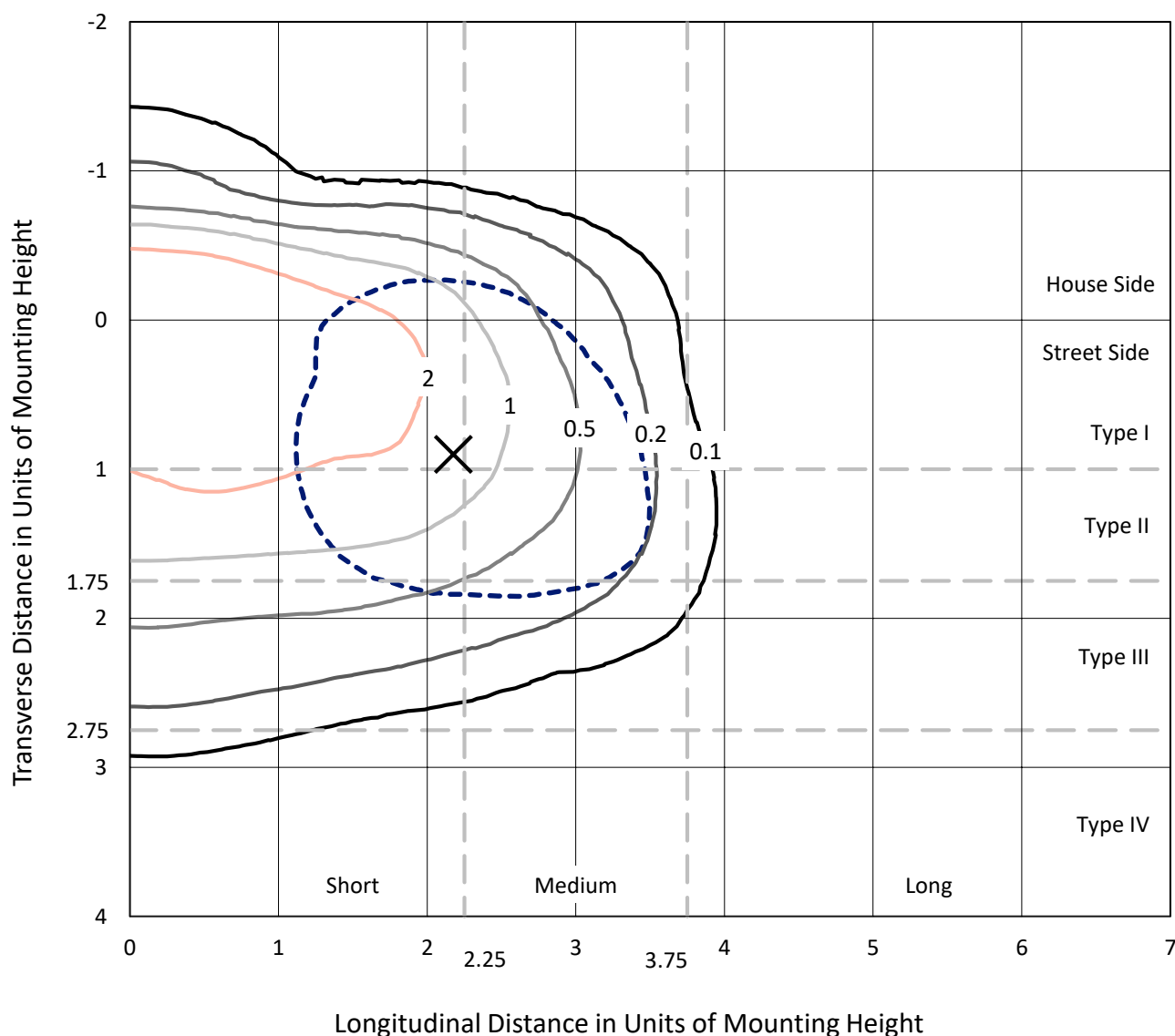
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

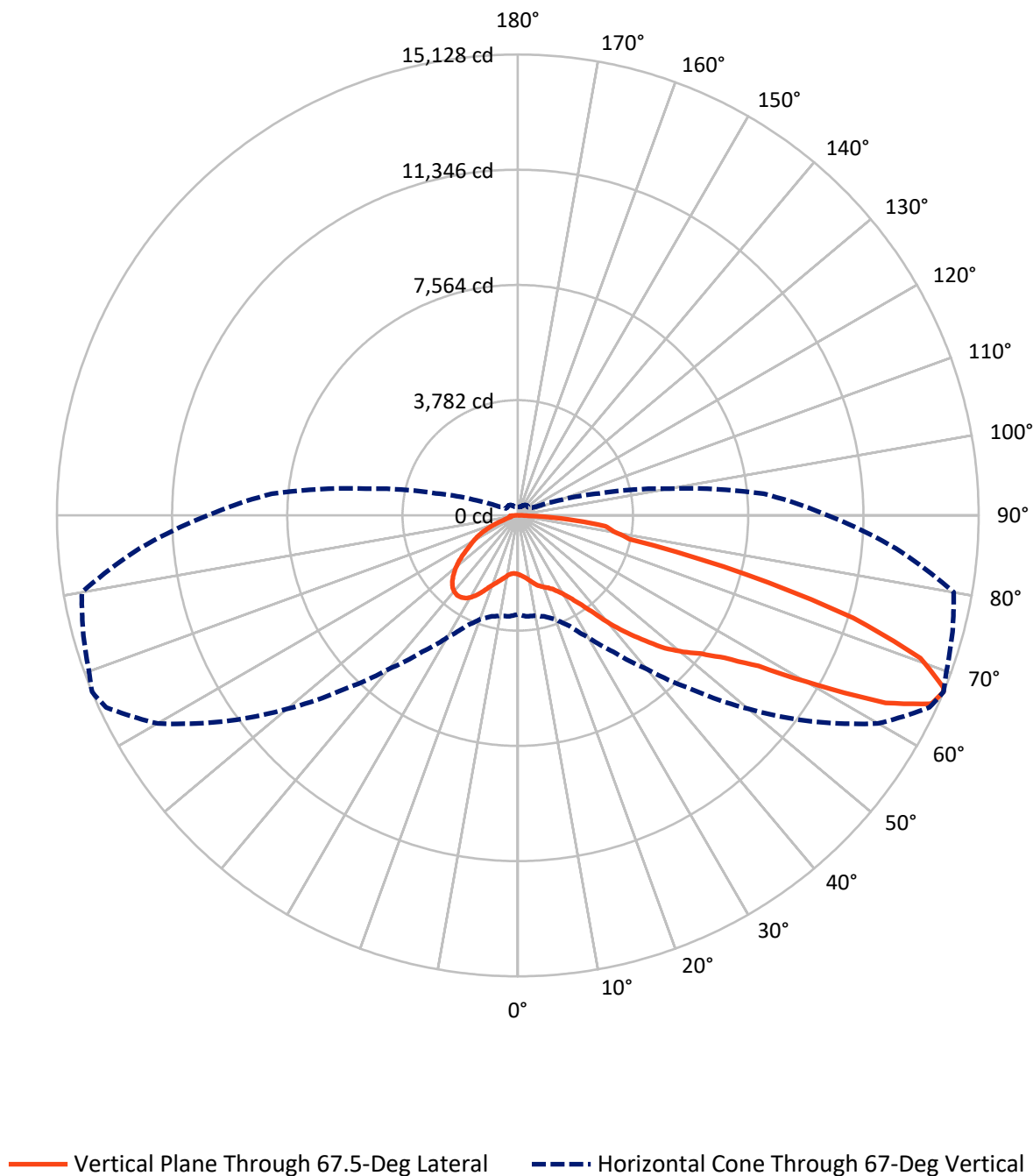


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - Semi-Cutoff

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CATALOG NUMBER: VST-E07-LED-E-U-SL3-8030

## Luminous Intensity Polar Plot



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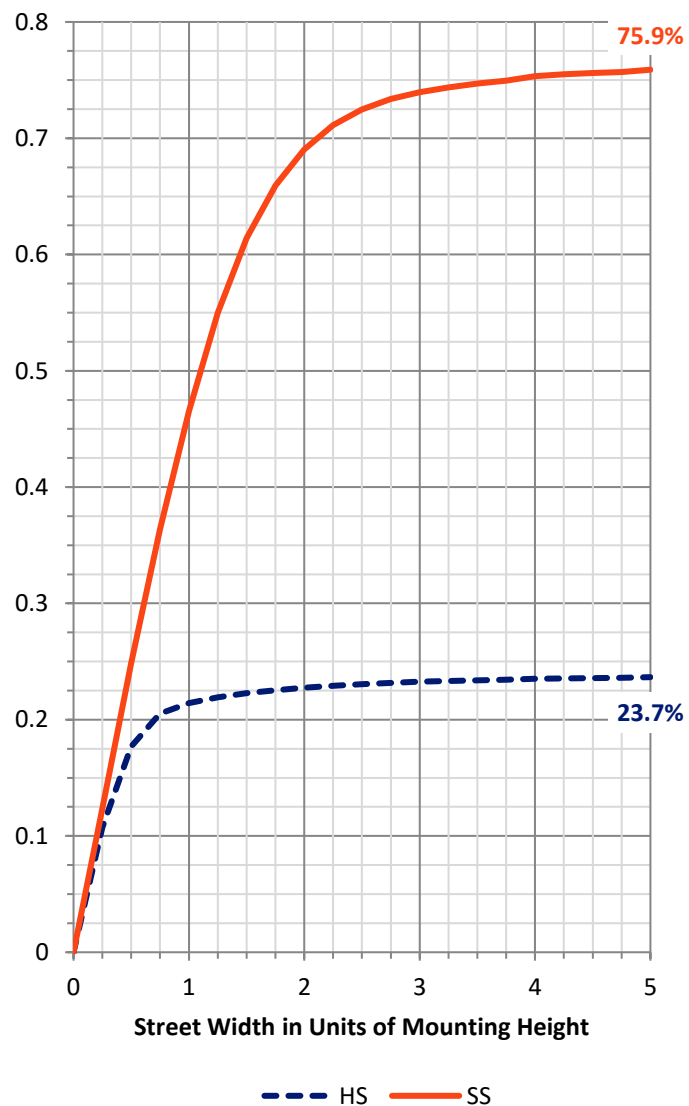
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4275.9   | 0.0    | 4275.9  |
|                    | % Fixture | 24.0     | 0.0    | 24.0    |
| <b>Street Side</b> | Lumens    | 13547.6  | 0.0    | 13547.6 |
|                    | % Fixture | 76.0     | 0.0    | 76.0    |
| <b>Total</b>       | Lumens    | 17823.5  | 0.0    | 17823.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 192.0   | 1.1       |
| 10°-20°   | 654.2   | 3.7       |
| 20°-30°   | 1167.9  | 6.6       |
| 30°-40°   | 1711.6  | 9.6       |
| 40°-50°   | 2644.7  | 14.8      |
| 50°-60°   | 3851.1  | 21.6      |
| 60°-70°   | 5016.7  | 28.1      |
| 70°-80°   | 2245.6  | 12.6      |
| 80°-90°   | 339.6   | 1.9       |
| 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°    | 17823.5 | 100.0     |
| 0°-180°   | 17823.5 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P158468

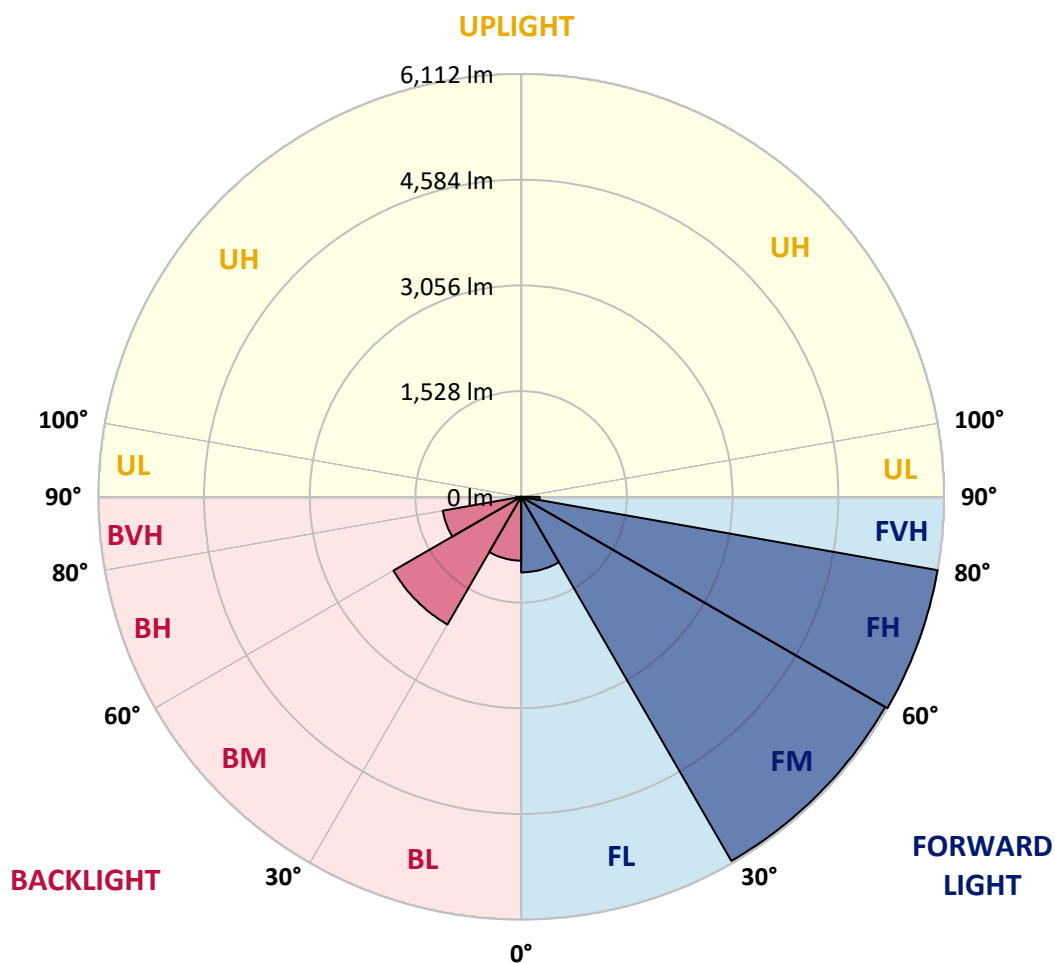
CATALOG NUMBER: VST-E07-LED-E-U-SL3-8030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1092.0 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 6076.9 | 34.1      |                         |      |         |
| FH   | (60°-80°)   | 6112.0 | 34.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 266.6  | 1.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 922.0  | 5.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2130.6 | 12.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1150.4 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 72.9   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





REPORT NUMBER: P158468

CATALOG NUMBER: VST-E07-LED-E-U-SL3-8030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9  |
| 2.5°  | 2007.5 | 2012.2 | 2013.4 | 2012.2 | 2013.4 | 2008.7 | 2007.5 | 2000.4 | 2004.0 | 1994.5 | 1992.2  |
| 5°    | 2116.2 | 2119.8 | 2122.1 | 2112.7 | 2115.0 | 2110.3 | 2104.4 | 2097.3 | 2087.9 | 2074.9 | 2066.6  |
| 7.5°  | 2222.6 | 2228.5 | 2227.3 | 2223.7 | 2215.5 | 2210.7 | 2198.9 | 2188.3 | 2171.8 | 2156.4 | 2145.8  |
| 10°   | 2365.5 | 2364.4 | 2364.4 | 2344.3 | 2332.5 | 2321.8 | 2300.6 | 2284.0 | 2267.5 | 2245.0 | 2233.2  |
| 12.5° | 2531.0 | 2522.7 | 2519.1 | 2505.0 | 2480.2 | 2461.2 | 2430.5 | 2398.6 | 2369.1 | 2345.5 | 2326.5  |
| 15°   | 2690.5 | 2690.5 | 2681.0 | 2658.6 | 2634.9 | 2610.1 | 2566.4 | 2520.3 | 2471.9 | 2434.1 | 2415.2  |
| 17.5° | 2835.8 | 2822.8 | 2814.5 | 2785.0 | 2760.2 | 2720.0 | 2671.6 | 2621.9 | 2561.7 | 2508.5 | 2471.9  |
| 20°   | 2942.2 | 2931.5 | 2913.8 | 2877.2 | 2834.6 | 2787.4 | 2730.6 | 2672.8 | 2607.8 | 2549.9 | 2508.5  |
| 22.5° | 3003.6 | 2990.6 | 2963.4 | 2915.0 | 2857.1 | 2790.9 | 2724.7 | 2670.4 | 2611.3 | 2567.6 | 2533.3  |
| 25°   | 3035.5 | 3022.5 | 2985.9 | 2922.1 | 2844.1 | 2756.6 | 2681.0 | 2627.9 | 2593.6 | 2582.9 | 2578.2  |
| 27.5° | 3034.3 | 3023.7 | 2984.7 | 2911.4 | 2811.0 | 2710.6 | 2629.0 | 2584.1 | 2580.6 | 2621.9 | 2652.7  |
| 30°   | 3003.6 | 2996.5 | 2961.1 | 2887.8 | 2782.6 | 2677.5 | 2601.9 | 2578.2 | 2614.9 | 2702.3 | 2777.9  |
| 32.5° | 2972.9 | 2969.3 | 2944.5 | 2878.3 | 2788.5 | 2699.9 | 2647.9 | 2650.3 | 2725.9 | 2860.6 | 2982.3  |
| 35°   | 2976.4 | 2981.1 | 2977.6 | 2942.2 | 2885.4 | 2839.4 | 2814.5 | 2866.5 | 2984.7 | 3147.7 | 3310.8  |
| 37.5° | 3007.1 | 3024.9 | 3047.3 | 3050.9 | 3052.0 | 3045.0 | 3096.9 | 3206.8 | 3379.3 | 3592.0 | 3847.2  |
| 40°   | 3074.5 | 3094.6 | 3159.6 | 3216.3 | 3289.5 | 3377.0 | 3482.1 | 3634.6 | 3848.4 | 4110.7 | 4423.9  |
| 42.5° | 3283.6 | 3312.0 | 3392.3 | 3497.5 | 3632.2 | 3769.3 | 3926.4 | 4134.4 | 4396.7 | 4673.2 | 5001.7  |
| 45°   | 3556.6 | 3615.7 | 3704.3 | 3821.3 | 4023.3 | 4215.9 | 4419.1 | 4651.9 | 4930.8 | 5277.0 | 5607.8  |
| 47.5° | 3896.9 | 3956.0 | 4084.7 | 4210.0 | 4448.7 | 4688.5 | 4910.7 | 5154.1 | 5456.6 | 5811.0 | 6177.3  |
| 50°   | 4194.6 | 4262.0 | 4376.6 | 4545.6 | 4822.1 | 5116.3 | 5362.0 | 5625.5 | 5879.6 | 6253.0 | 6622.8  |
| 52.5° | 4428.6 | 4477.0 | 4586.9 | 4741.7 | 5050.1 | 5372.7 | 5683.4 | 5976.5 | 6277.8 | 6651.2 | 6993.8  |
| 55°   | 4458.1 | 4503.0 | 4610.6 | 4787.8 | 5100.9 | 5458.9 | 5817.0 | 6164.3 | 6590.9 | 6998.5 | 7452.3  |
| 57.5° | 4330.5 | 4367.1 | 4475.9 | 4634.2 | 4939.0 | 5346.7 | 5799.2 | 6244.7 | 6790.6 | 7341.2 | 7895.4  |
| 60°   | 4149.7 | 4186.4 | 4271.4 | 4397.9 | 4673.2 | 5112.7 | 5640.9 | 6250.6 | 6976.1 | 7771.3 | 8586.6  |
| 62.5° | 3951.2 | 3983.1 | 4051.7 | 4141.5 | 4383.7 | 4789.0 | 5393.9 | 6211.6 | 7127.3 | 8199.0 | 9456.2  |
| 65°   | 3616.8 | 3693.6 | 3723.2 | 3815.3 | 4057.6 | 4440.4 | 5056.0 | 5948.1 | 7065.9 | 8389.3 | 10002.1 |
| 67°   | 3247.0 | 3325.0 | 3340.3 | 3433.7 | 3627.5 | 3994.9 | 4621.2 | 5460.1 | 6579.1 | 8060.8 | 9881.6  |
| 67.5° | 3128.8 | 3195.0 | 3218.6 | 3312.0 | 3495.1 | 3841.3 | 4435.7 | 5284.1 | 6430.2 | 7881.2 | 9736.3  |
| 70°   | 2300.6 | 2373.8 | 2399.8 | 2438.8 | 2570.0 | 2858.3 | 3251.7 | 3987.9 | 5126.9 | 6431.4 | 8213.2  |
| 72.5° | 1231.2 | 1290.3 | 1315.1 | 1373.0 | 1440.4 | 1597.5 | 1898.8 | 2427.0 | 3146.6 | 4303.3 | 5842.9  |
| 75°   | 833.0  | 856.7  | 874.4  | 914.5  | 984.3  | 1109.5 | 1241.8 | 1427.4 | 1862.2 | 2428.2 | 3325.0  |
| 77.5° | 475.0  | 485.6  | 488.0  | 495.1  | 550.6  | 670.0  | 887.4  | 1201.7 | 1540.8 | 1759.4 | 2126.9  |
| 80°   | 205.6  | 226.9  | 243.4  | 232.8  | 229.2  | 254.0  | 317.8  | 473.8  | 928.7  | 1474.6 | 1749.9  |
| 82.5° | 111.1  | 120.5  | 134.7  | 135.9  | 143.0  | 151.2  | 164.2  | 195.0  | 274.1  | 553.0  | 1206.4  |
| 85°   | 57.9   | 60.3   | 80.3   | 92.2   | 98.1   | 102.8  | 105.2  | 117.0  | 134.7  | 171.3  | 300.1   |
| 87.5° | 8.3    | 11.8   | 14.2   | 18.9   | 21.3   | 22.5   | 26.0   | 33.1   | 39.0   | 47.3   | 80.3    |
| 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: P158468

CATALOG NUMBER: VST-E07-LED-E-U-SL3-8030

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 67.5°   | 70°     | 75°     | 80°     | 85°     | 90°     | 95°    | 100°   |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 1931.9  | 1931.9  | 1931.9  | 1931.9  | 1931.9  | 1931.9  | 1931.9  | 1931.9  | 1931.9  | 1931.9 | 1931.9 |
| 2.5°  | 1981.5  | 1979.2  | 1972.1  | 1967.3  | 1962.6  | 1957.9  | 1952.0  | 1947.3  | 1939.0  | 1933.1 | 1926.0 |
| 5°    | 2054.8  | 2040.6  | 2031.1  | 2018.2  | 2015.8  | 2000.4  | 1985.1  | 1978.0  | 1963.8  | 1952.0 | 1937.8 |
| 7.5°  | 2129.2  | 2112.7  | 2097.3  | 2086.7  | 2080.8  | 2059.5  | 2044.1  | 2026.4  | 2009.9  | 1994.5 | 1978.0 |
| 10°   | 2216.7  | 2200.1  | 2183.6  | 2176.5  | 2165.8  | 2145.8  | 2132.8  | 2110.3  | 2093.8  | 2074.9 | 2052.4 |
| 12.5° | 2307.6  | 2295.8  | 2284.0  | 2274.6  | 2269.8  | 2260.4  | 2241.5  | 2222.6  | 2200.1  | 2181.2 | 2155.2 |
| 15°   | 2388.0  | 2379.7  | 2375.0  | 2372.6  | 2372.6  | 2366.7  | 2349.0  | 2331.3  | 2307.6  | 2286.4 | 2258.0 |
| 17.5° | 2444.7  | 2441.2  | 2444.7  | 2448.2  | 2453.0  | 2448.2  | 2444.7  | 2424.6  | 2409.3  | 2383.3 | 2354.9 |
| 20°   | 2477.8  | 2484.9  | 2502.6  | 2514.4  | 2525.1  | 2533.3  | 2536.9  | 2520.3  | 2500.2  | 2481.3 | 2462.4 |
| 22.5° | 2513.2  | 2533.3  | 2564.0  | 2581.8  | 2599.5  | 2629.0  | 2636.1  | 2624.3  | 2608.9  | 2597.1 | 2577.0 |
| 25°   | 2572.3  | 2601.9  | 2655.0  | 2683.4  | 2708.2  | 2751.9  | 2757.8  | 2760.2  | 2756.6  | 2747.2 | 2722.4 |
| 27.5° | 2664.5  | 2722.4  | 2793.3  | 2829.9  | 2857.1  | 2913.8  | 2936.2  | 2936.2  | 2926.8  | 2937.4 | 2937.4 |
| 30°   | 2825.2  | 2902.0  | 2994.1  | 3015.4  | 3057.9  | 3107.6  | 3144.2  | 3148.9  | 3150.1  | 3172.6 | 3205.6 |
| 32.5° | 3072.1  | 3145.4  | 3248.2  | 3271.8  | 3308.4  | 3355.7  | 3397.1  | 3392.3  | 3403.0  | 3451.4 | 3495.1 |
| 35°   | 3431.3  | 3505.8  | 3573.1  | 3605.0  | 3621.6  | 3664.1  | 3679.5  | 3705.5  | 3737.4  | 3797.6 | 3791.7 |
| 37.5° | 3963.0  | 4029.2  | 4038.7  | 4058.8  | 4038.7  | 4046.9  | 4058.8  | 4089.5  | 4174.5  | 4228.9 | 4141.5 |
| 40°   | 4603.5  | 4713.4  | 4702.7  | 4679.1  | 4634.2  | 4573.9  | 4595.2  | 4642.5  | 4734.6  | 4687.4 | 4452.2 |
| 42.5° | 5207.3  | 5320.7  | 5299.4  | 5272.2  | 5173.0  | 5150.5  | 5148.2  | 5187.2  | 5236.8  | 5102.1 | 4695.6 |
| 45°   | 5801.6  | 5917.4  | 5880.8  | 5865.4  | 5799.2  | 5750.8  | 5791.0  | 5793.3  | 5780.3  | 5492.0 | 4908.3 |
| 47.5° | 6414.8  | 6521.2  | 6497.5  | 6510.5  | 6442.0  | 6410.1  | 6413.7  | 6397.1  | 6275.4  | 5822.9 | 5073.7 |
| 50°   | 6909.9  | 7052.9  | 7067.1  | 7037.5  | 7000.9  | 6952.5  | 7076.5  | 7031.6  | 6761.0  | 6144.3 | 5233.3 |
| 52.5° | 7295.1  | 7487.7  | 7561.0  | 7542.1  | 7512.5  | 7518.4  | 7751.2  | 7802.0  | 7354.2  | 6549.5 | 5409.3 |
| 55°   | 7751.2  | 8054.9  | 8174.2  | 8245.1  | 8214.4  | 8332.6  | 8865.4  | 8891.4  | 8178.9  | 7078.9 | 5638.5 |
| 57.5° | 8409.4  | 8844.2  | 9221.1  | 9321.5  | 9418.4  | 9802.4  | 10667.4 | 10403.9 | 9249.5  | 7880.0 | 5929.2 |
| 60°   | 9410.2  | 10362.5 | 10974.6 | 11296.0 | 11522.8 | 12059.3 | 12881.7 | 12214.1 | 10583.5 | 8833.5 | 6294.3 |
| 62.5° | 10811.5 | 12203.4 | 13226.7 | 13549.3 | 13642.6 | 13951.0 | 14546.5 | 13269.2 | 11310.2 | 9261.3 | 6326.2 |
| 65°   | 11854.9 | 13524.4 | 14749.8 | 14915.2 | 14804.1 | 14810.0 | 14966.0 | 13213.7 | 11039.6 | 8887.9 | 5778.0 |
| 67°   | 11786.3 | 13655.6 | 14910.5 | 15127.9 | 14974.3 | 14772.2 | 14528.8 | 12461.0 | 10169.9 | 8105.7 | 5059.6 |
| 67.5° | 11681.2 | 13529.2 | 14840.7 | 15070.0 | 14929.4 | 14698.9 | 14343.3 | 12169.2 | 9899.3  | 7862.3 | 4913.0 |
| 70°   | 10097.8 | 11932.9 | 13699.3 | 14021.9 | 14081.0 | 13870.7 | 12872.2 | 10260.9 | 8037.2  | 6395.9 | 3815.3 |
| 72.5° | 7859.9  | 9494.1  | 11241.6 | 11521.7 | 11748.5 | 11142.4 | 9368.8  | 7087.2  | 5858.3  | 4609.4 | 2762.6 |
| 75°   | 5189.5  | 6852.0  | 7733.5  | 7774.8  | 7485.4  | 6362.8  | 4577.5  | 3549.5  | 3267.1  | 2709.4 | 1709.8 |
| 77.5° | 2776.7  | 4029.2  | 4054.0  | 3753.9  | 3616.8  | 2696.4  | 1094.1  | 603.8   | 672.3   | 763.3  | 680.6  |
| 80°   | 2071.3  | 2566.4  | 2974.1  | 3197.4  | 3263.5  | 2312.4  | 566.0   | 320.2   | 280.0   | 255.2  | 251.7  |
| 82.5° | 1868.1  | 2479.0  | 2779.1  | 2900.8  | 2870.1  | 1902.4  | 317.8   | 215.0   | 178.4   | 193.8  | 221.0  |
| 85°   | 732.6   | 1323.4  | 1740.5  | 1684.9  | 1415.5  | 709.0   | 173.7   | 115.8   | 115.8   | 167.8  | 217.4  |
| 87.5° | 150.1   | 271.8   | 368.7   | 352.1   | 316.7   | 137.1   | 85.1    | 69.7    | 70.9    | 135.9  | 205.6  |
| 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: P158468

CATALOG NUMBER: VST-E07-LED-E-U-SL3-8030

**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 | 1931.9 |
| 2.5°  | 1918.9 | 1911.8 | 1907.1 | 1902.4 | 1897.6 | 1895.3 | 1891.7 | 1891.7 | 1884.6 | 1882.3 | 1879.9 |
| 5°    | 1927.2 | 1915.4 | 1907.1 | 1896.4 | 1888.2 | 1881.1 | 1871.6 | 1869.3 | 1861.0 | 1855.1 | 1852.7 |
| 7.5°  | 1962.6 | 1944.9 | 1927.2 | 1914.2 | 1902.4 | 1887.0 | 1876.4 | 1866.9 | 1858.6 | 1852.7 | 1845.6 |
| 10°   | 2030.0 | 2011.1 | 1986.2 | 1962.6 | 1947.3 | 1923.6 | 1907.1 | 1890.5 | 1881.1 | 1874.0 | 1864.5 |
| 12.5° | 2129.2 | 2102.0 | 2072.5 | 2044.1 | 2018.2 | 1987.4 | 1970.9 | 1950.8 | 1939.0 | 1933.1 | 1926.0 |
| 15°   | 2230.8 | 2201.3 | 2164.7 | 2137.5 | 2108.0 | 2084.3 | 2069.0 | 2051.2 | 2041.8 | 2034.7 | 2030.0 |
| 17.5° | 2334.8 | 2300.6 | 2274.6 | 2247.4 | 2233.2 | 2215.5 | 2195.4 | 2172.9 | 2145.8 | 2129.2 | 2106.8 |
| 20°   | 2441.2 | 2415.2 | 2399.8 | 2384.4 | 2367.9 | 2343.1 | 2302.9 | 2256.8 | 2206.0 | 2157.6 | 2111.5 |
| 22.5° | 2565.2 | 2549.9 | 2547.5 | 2533.3 | 2499.1 | 2440.0 | 2365.5 | 2279.3 | 2193.0 | 2112.7 | 2050.1 |
| 25°   | 2740.1 | 2740.1 | 2728.3 | 2670.4 | 2590.0 | 2483.7 | 2358.4 | 2234.4 | 2119.8 | 2009.9 | 1927.2 |
| 27.5° | 2959.9 | 2951.6 | 2893.7 | 2774.4 | 2630.2 | 2464.8 | 2297.0 | 2139.9 | 1993.3 | 1872.8 | 1766.5 |
| 30°   | 3202.1 | 3144.2 | 3020.1 | 2832.3 | 2616.0 | 2403.3 | 2197.8 | 2015.8 | 1843.3 | 1695.6 | 1570.3 |
| 32.5° | 3453.8 | 3313.2 | 3089.9 | 2832.3 | 2566.4 | 2311.2 | 2073.7 | 1850.4 | 1653.0 | 1487.6 | 1338.7 |
| 35°   | 3681.8 | 3425.4 | 3106.4 | 2786.2 | 2469.5 | 2175.3 | 1900.0 | 1647.1 | 1410.8 | 1232.4 | 1069.3 |
| 37.5° | 3888.6 | 3499.9 | 3088.7 | 2696.4 | 2328.9 | 1983.9 | 1661.3 | 1382.5 | 1115.4 | 942.9  | 803.5  |
| 40°   | 4023.3 | 3515.2 | 3015.4 | 2555.8 | 2128.0 | 1725.1 | 1368.3 | 1056.3 | 844.8  | 687.7  | 594.3  |
| 42.5° | 4107.2 | 3485.7 | 2897.3 | 2363.2 | 1857.5 | 1400.2 | 1026.8 | 757.4  | 600.2  | 512.8  | 477.4  |
| 45°   | 4154.5 | 3408.9 | 2722.4 | 2099.7 | 1530.2 | 1064.6 | 729.0  | 547.1  | 462.0  | 431.3  | 419.5  |
| 47.5° | 4152.1 | 3284.8 | 2503.8 | 1794.8 | 1168.6 | 742.0  | 516.4  | 426.6  | 402.9  | 393.5  | 391.1  |
| 50°   | 4127.3 | 3132.4 | 2247.4 | 1464.0 | 843.7  | 517.5  | 408.8  | 382.8  | 376.9  | 371.0  | 368.7  |
| 52.5° | 4093.0 | 2943.3 | 1963.8 | 1141.4 | 599.1  | 413.6  | 371.0  | 363.9  | 359.2  | 353.3  | 350.9  |
| 55°   | 4029.2 | 2710.6 | 1656.6 | 859.0  | 469.1  | 373.4  | 358.0  | 355.7  | 349.7  | 341.5  | 336.8  |
| 57.5° | 3951.2 | 2474.2 | 1362.4 | 671.1  | 414.7  | 363.9  | 355.7  | 352.1  | 343.8  | 334.4  | 324.9  |
| 60°   | 3922.9 | 2279.3 | 1132.0 | 566.0  | 401.7  | 367.5  | 361.6  | 356.8  | 345.0  | 330.8  | 320.2  |
| 62.5° | 3745.6 | 2059.5 | 966.5  | 524.6  | 408.8  | 382.8  | 380.5  | 373.4  | 355.7  | 339.1  | 322.6  |
| 65°   | 3287.2 | 1741.7 | 818.8  | 496.3  | 423.0  | 408.8  | 411.2  | 400.6  | 382.8  | 360.4  | 330.8  |
| 67°   | 2780.3 | 1420.3 | 681.8  | 469.1  | 433.6  | 436.0  | 444.3  | 436.0  | 413.6  | 381.7  | 341.5  |
| 67.5° | 2645.6 | 1338.7 | 647.5  | 460.8  | 436.0  | 443.1  | 452.5  | 446.6  | 424.2  | 387.6  | 346.2  |
| 70°   | 1966.2 | 942.9  | 483.3  | 417.1  | 436.0  | 464.4  | 485.6  | 491.5  | 466.7  | 415.9  | 355.7  |
| 72.5° | 1384.8 | 608.5  | 371.0  | 361.6  | 395.8  | 433.6  | 473.8  | 493.9  | 465.5  | 410.0  | 342.7  |
| 75°   | 831.8  | 380.5  | 301.3  | 307.2  | 333.2  | 372.2  | 404.1  | 412.4  | 376.9  | 341.5  | 296.6  |
| 77.5° | 385.2  | 252.9  | 236.3  | 244.6  | 269.4  | 287.1  | 287.1  | 270.6  | 243.4  | 222.1  | 212.7  |
| 80°   | 226.9  | 206.8  | 205.6  | 221.0  | 237.5  | 224.5  | 204.4  | 182.0  | 167.8  | 160.7  | 157.2  |
| 82.5° | 212.7  | 221.0  | 235.1  | 238.7  | 225.7  | 193.8  | 169.0  | 146.5  | 139.4  | 135.9  | 132.3  |
| 85°   | 250.5  | 268.2  | 244.6  | 225.7  | 199.7  | 163.1  | 132.3  | 113.4  | 109.9  | 106.3  | 101.6  |
| 87.5° | 231.6  | 221.0  | 192.6  | 165.4  | 137.1  | 99.3   | 72.1   | 65.0   | 69.7   | 68.5   | 66.2   |
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| 57.5° | 319.0  | 317.8  | 317.8  | 316.7  | 316.7  |
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