

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: P158507

Luminaire Tested: **VST-F10-LED-E-U-SL3-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158507  
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-F10-LED-E-U-SL3-7060  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (70) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25555.1 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 258.7  
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

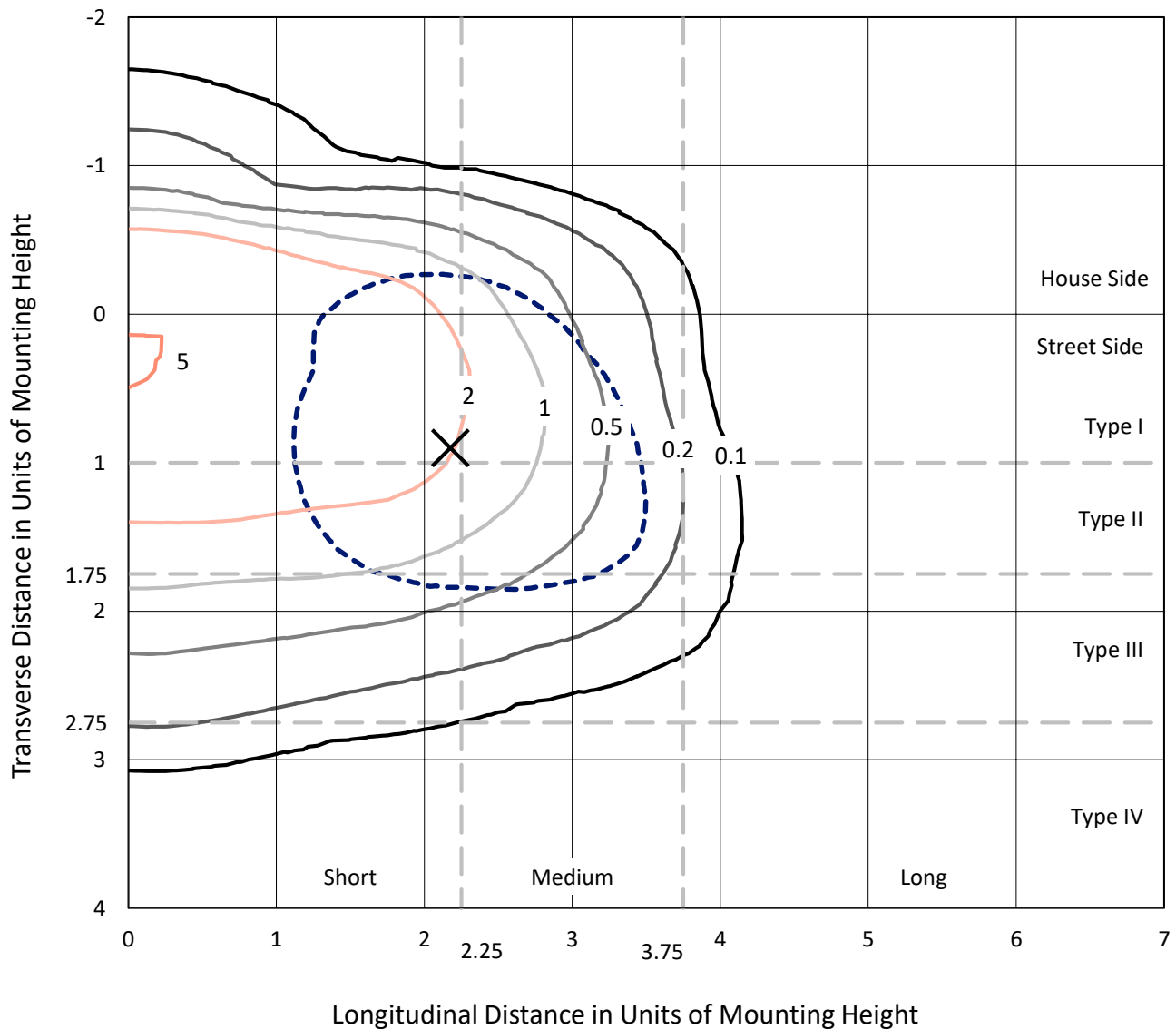


REPORT NUMBER: P158507

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7060

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

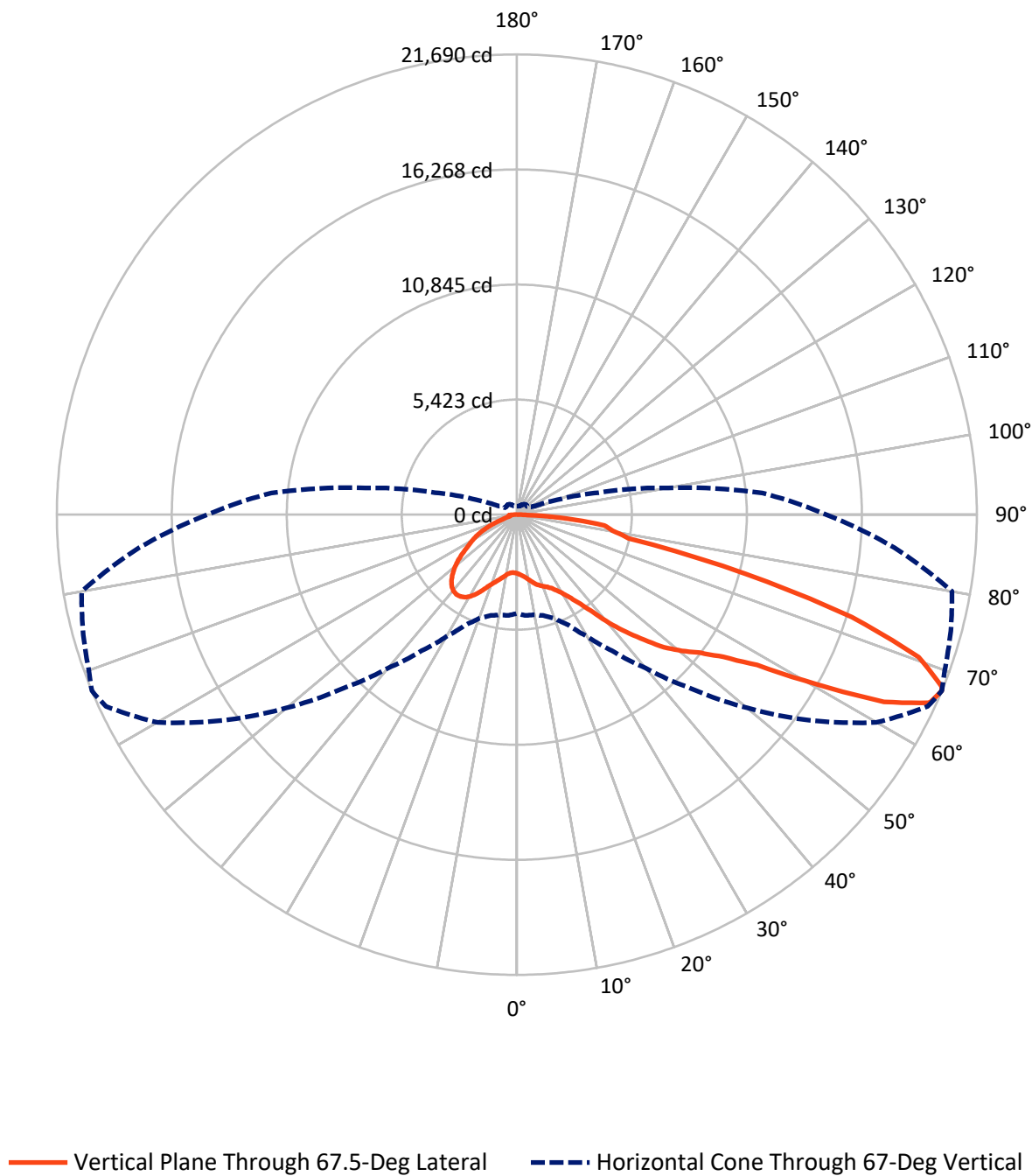


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P158507

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7060

## Luminous Intensity Polar Plot



REPORT NUMBER: P158507

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7060

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6130.7   | 0.0    | 6130.7  |
|                    | % Fixture | 24.0     | 0.0    | 24.0    |
| <b>Street Side</b> | Lumens    | 19424.4  | 0.0    | 19424.4 |
|                    | % Fixture | 76.0     | 0.0    | 76.0    |
| <b>Total</b>       | Lumens    | 25555.1  | 0.0    | 25555.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 275.3   | 1.1       |
| 10°-20°   | 937.9   | 3.7       |
| 20°-30°   | 1674.5  | 6.6       |
| 30°-40°   | 2454.1  | 9.6       |
| 40°-50°   | 3791.9  | 14.8      |
| 50°-60°   | 5521.7  | 21.6      |
| 60°-70°   | 7193.0  | 28.1      |
| 70°-80°   | 3219.8  | 12.6      |
| 80°-90°   | 486.8   | 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°    | 25555.1 | 100.0     |
| 0°-180°   | 25555.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P158507

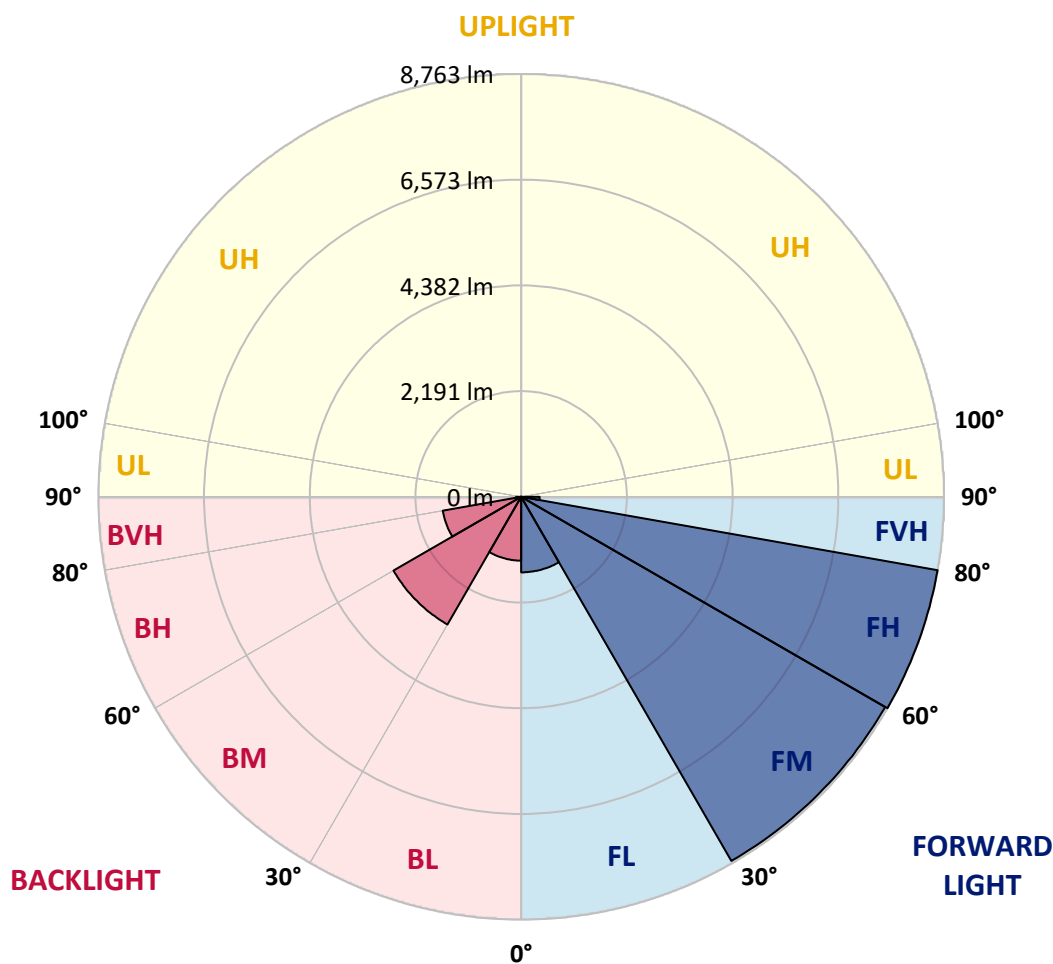
CATALOG NUMBER: VST-F10-LED-E-U-SL3-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1565.8 | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 8713.0 | 34.1      |                         |      |          |
| FH   | (60°-80°)   | 8763.4 | 34.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 382.3  | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1322.0 | 5.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3054.8 | 12.0      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1649.4 | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 104.5  | 0.4       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short





REPORT NUMBER: P158507

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7060

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9  | 2769.9  | 2769.9  |
| 2.5°  | 2878.4 | 2885.1 | 2886.8 | 2885.1 | 2886.8 | 2880.1 | 2878.4 | 2868.2 | 2873.3  | 2859.7  | 2856.3  |
| 5°    | 3034.2 | 3039.3 | 3042.7 | 3029.1 | 3032.5 | 3025.8 | 3017.3 | 3007.1 | 2993.6  | 2974.9  | 2963.1  |
| 7.5°  | 3186.7 | 3195.2 | 3193.5 | 3188.4 | 3176.5 | 3169.8 | 3152.8 | 3137.6 | 3113.8  | 3091.8  | 3076.6  |
| 10°   | 3391.7 | 3390.0 | 3390.0 | 3361.2 | 3344.3 | 3329.0 | 3298.5 | 3274.8 | 3251.1  | 3218.9  | 3201.9  |
| 12.5° | 3628.9 | 3617.0 | 3611.9 | 3591.6 | 3556.0 | 3528.9 | 3484.9 | 3439.1 | 3396.8  | 3362.9  | 3335.8  |
| 15°   | 3857.6 | 3857.6 | 3844.0 | 3811.8 | 3778.0 | 3742.4 | 3679.7 | 3613.6 | 3544.2  | 3490.0  | 3462.8  |
| 17.5° | 4066.0 | 4047.3 | 4035.5 | 3993.1 | 3957.5 | 3899.9 | 3830.5 | 3759.3 | 3672.9  | 3596.7  | 3544.2  |
| 20°   | 4218.4 | 4203.2 | 4177.8 | 4125.3 | 4064.3 | 3996.5 | 3915.2 | 3832.2 | 3739.0  | 3656.0  | 3596.7  |
| 22.5° | 4306.5 | 4287.9 | 4248.9 | 4179.5 | 4096.5 | 4001.6 | 3906.7 | 3828.8 | 3744.1  | 3681.4  | 3632.3  |
| 25°   | 4352.3 | 4333.6 | 4281.1 | 4189.6 | 4077.8 | 3952.5 | 3844.0 | 3767.8 | 3718.7  | 3703.4  | 3696.6  |
| 27.5° | 4350.6 | 4335.3 | 4279.4 | 4174.4 | 4030.4 | 3886.4 | 3769.5 | 3705.1 | 3700.0  | 3759.3  | 3803.4  |
| 30°   | 4306.5 | 4296.4 | 4245.5 | 4140.5 | 3989.7 | 3838.9 | 3730.5 | 3696.6 | 3749.2  | 3874.5  | 3982.9  |
| 32.5° | 4262.5 | 4257.4 | 4221.8 | 4127.0 | 3998.2 | 3871.1 | 3796.6 | 3800.0 | 3908.4  | 4101.5  | 4276.0  |
| 35°   | 4267.6 | 4274.3 | 4269.3 | 4218.4 | 4137.1 | 4071.0 | 4035.5 | 4110.0 | 4279.4  | 4513.2  | 4747.0  |
| 37.5° | 4311.6 | 4337.0 | 4369.2 | 4374.3 | 4376.0 | 4365.8 | 4440.4 | 4597.9 | 4845.3  | 5150.2  | 5516.2  |
| 40°   | 4408.2 | 4437.0 | 4530.2 | 4611.5 | 4716.5 | 4841.9 | 4992.7 | 5211.2 | 5517.9  | 5894.0  | 6342.9  |
| 42.5° | 4708.0 | 4748.7 | 4863.9 | 5014.7 | 5207.8 | 5404.3 | 5629.7 | 5927.8 | 6303.9  | 6700.4  | 7171.3  |
| 45°   | 5099.4 | 5184.1 | 5311.2 | 5478.9 | 5768.6 | 6044.7 | 6336.1 | 6669.9 | 7069.7  | 7566.1  | 8040.4  |
| 47.5° | 5587.3 | 5672.0 | 5856.7 | 6036.3 | 6378.5 | 6722.4 | 7040.9 | 7389.9 | 7823.6  | 8331.8  | 8857.0  |
| 50°   | 6014.2 | 6110.8 | 6275.1 | 6517.4 | 6913.8 | 7335.7 | 7688.1 | 8065.9 | 8430.1  | 8965.4  | 9495.7  |
| 52.5° | 6349.7 | 6419.1 | 6576.7 | 6798.6 | 7240.8 | 7703.3 | 8148.9 | 8569.0 | 9001.0  | 9536.4  | 10027.7 |
| 55°   | 6392.0 | 6456.4 | 6610.6 | 6864.7 | 7313.7 | 7827.0 | 8340.3 | 8838.4 | 9450.0  | 10034.5 | 10685.0 |
| 57.5° | 6209.1 | 6261.6 | 6417.4 | 6644.5 | 7081.6 | 7666.0 | 8314.9 | 8953.6 | 9736.3  | 10525.8 | 11320.3 |
| 60°   | 5949.9 | 6002.4 | 6124.4 | 6305.6 | 6700.4 | 7330.6 | 8087.9 | 8962.1 | 10002.3 | 11142.4 | 12311.4 |
| 62.5° | 5665.2 | 5711.0 | 5809.2 | 5938.0 | 6285.3 | 6866.4 | 7733.8 | 8906.2 | 10219.1 | 11755.7 | 13558.3 |
| 65°   | 5185.8 | 5295.9 | 5338.3 | 5470.4 | 5817.7 | 6366.6 | 7249.3 | 8528.4 | 10131.0 | 12028.5 | 14341.0 |
| 67°   | 4655.5 | 4767.3 | 4789.4 | 4923.2 | 5201.0 | 5727.9 | 6625.8 | 7828.7 | 9433.0  | 11557.5 | 14168.2 |
| 67.5° | 4486.1 | 4581.0 | 4614.9 | 4748.7 | 5011.3 | 5507.7 | 6359.8 | 7576.2 | 9219.6  | 11300.0 | 13959.8 |
| 70°   | 3298.5 | 3403.5 | 3440.8 | 3496.7 | 3684.8 | 4098.2 | 4662.3 | 5717.8 | 7350.9  | 9221.3  | 11776.0 |
| 72.5° | 1765.3 | 1850.0 | 1885.6 | 1968.6 | 2065.2 | 2290.5 | 2722.5 | 3479.8 | 4511.5  | 6170.1  | 8377.6  |
| 75°   | 1194.4 | 1228.3 | 1253.7 | 1311.3 | 1411.2 | 1590.8 | 1780.6 | 2046.5 | 2670.0  | 3481.5  | 4767.3  |
| 77.5° | 681.0  | 696.3  | 699.7  | 709.8  | 789.5  | 960.6  | 1272.3 | 1723.0 | 2209.2  | 2522.6  | 3049.5  |
| 80°   | 294.8  | 325.3  | 349.0  | 333.7  | 328.7  | 364.2  | 455.7  | 679.4  | 1331.6  | 2114.3  | 2509.0  |
| 82.5° | 159.3  | 172.8  | 193.1  | 194.8  | 205.0  | 216.9  | 235.5  | 279.5  | 393.0   | 792.9   | 1729.7  |
| 85°   | 83.0   | 86.4   | 115.2  | 132.1  | 140.6  | 147.4  | 150.8  | 167.7  | 193.1   | 245.7   | 430.3   |
| 87.5° | 11.9   | 16.9   | 20.3   | 27.1   | 30.5   | 32.2   | 37.3   | 47.4   | 55.9    | 67.8    | 115.2   |
| 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: P158507

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7060

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 67.5°   | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°   |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 2769.9  | 2769.9  | 2769.9  | 2769.9  | 2769.9  | 2769.9  | 2769.9  | 2769.9  | 2769.9  | 2769.9  | 2769.9 |
| 2.5°  | 2841.1  | 2837.7  | 2827.5  | 2820.8  | 2814.0  | 2807.2  | 2798.7  | 2792.0  | 2780.1  | 2771.6  | 2761.5 |
| 5°    | 2946.1  | 2925.8  | 2912.2  | 2893.6  | 2890.2  | 2868.2  | 2846.2  | 2836.0  | 2815.7  | 2798.7  | 2778.4 |
| 7.5°  | 3052.9  | 3029.1  | 3007.1  | 2991.9  | 2983.4  | 2952.9  | 2930.9  | 2905.5  | 2881.8  | 2859.7  | 2836.0 |
| 10°   | 3178.2  | 3154.5  | 3130.8  | 3120.6  | 3105.4  | 3076.6  | 3057.9  | 3025.8  | 3002.0  | 2974.9  | 2942.7 |
| 12.5° | 3308.7  | 3291.7  | 3274.8  | 3261.2  | 3254.5  | 3240.9  | 3213.8  | 3186.7  | 3154.5  | 3127.4  | 3090.1 |
| 15°   | 3423.9  | 3412.0  | 3405.2  | 3401.9  | 3401.9  | 3393.4  | 3368.0  | 3342.6  | 3308.7  | 3278.2  | 3237.5 |
| 17.5° | 3505.2  | 3500.1  | 3505.2  | 3510.3  | 3517.1  | 3510.3  | 3505.2  | 3476.4  | 3454.4  | 3417.1  | 3376.4 |
| 20°   | 3552.6  | 3562.8  | 3588.2  | 3605.2  | 3620.4  | 3632.3  | 3637.3  | 3613.6  | 3584.8  | 3557.7  | 3530.6 |
| 22.5° | 3603.5  | 3632.3  | 3676.3  | 3701.7  | 3727.1  | 3769.5  | 3779.7  | 3762.7  | 3740.7  | 3723.7  | 3694.9 |
| 25°   | 3688.2  | 3730.5  | 3806.8  | 3847.4  | 3883.0  | 3945.7  | 3954.1  | 3957.5  | 3952.5  | 3938.9  | 3903.3 |
| 27.5° | 3820.3  | 3903.3  | 4005.0  | 4057.5  | 4096.5  | 4177.8  | 4210.0  | 4210.0  | 4196.4  | 4211.7  | 4211.7 |
| 30°   | 4050.7  | 4160.8  | 4293.0  | 4323.5  | 4384.5  | 4455.6  | 4508.1  | 4514.9  | 4516.6  | 4548.8  | 4596.2 |
| 32.5° | 4404.8  | 4509.8  | 4657.2  | 4691.1  | 4743.6  | 4811.4  | 4870.7  | 4863.9  | 4879.2  | 4948.6  | 5011.3 |
| 35°   | 4919.8  | 5026.5  | 5123.1  | 5168.9  | 5192.6  | 5253.6  | 5275.6  | 5312.9  | 5358.6  | 5445.0  | 5436.5 |
| 37.5° | 5682.2  | 5777.1  | 5790.6  | 5819.4  | 5790.6  | 5802.5  | 5819.4  | 5863.5  | 5985.4  | 6063.4  | 5938.0 |
| 40°   | 6600.4  | 6758.0  | 6742.7  | 6708.8  | 6644.5  | 6558.1  | 6588.6  | 6656.3  | 6788.5  | 6720.7  | 6383.6 |
| 42.5° | 7466.1  | 7628.8  | 7598.3  | 7559.3  | 7417.0  | 7384.8  | 7381.4  | 7437.3  | 7508.5  | 7315.3  | 6732.6 |
| 45°   | 8318.3  | 8484.3  | 8431.8  | 8409.8  | 8314.9  | 8245.4  | 8303.0  | 8306.4  | 8287.8  | 7874.4  | 7037.5 |
| 47.5° | 9197.5  | 9350.0  | 9316.1  | 9334.8  | 9236.5  | 9190.8  | 9195.9  | 9172.1  | 8997.6  | 8348.8  | 7274.7 |
| 50°   | 9907.4  | 10112.4 | 10132.7 | 10090.4 | 10037.8 | 9968.4  | 10146.3 | 10081.9 | 9693.9  | 8809.6  | 7503.4 |
| 52.5° | 10459.7 | 10735.8 | 10840.9 | 10813.8 | 10771.4 | 10779.9 | 11113.6 | 11186.5 | 10544.4 | 9390.7  | 7755.8 |
| 55°   | 11113.6 | 11549.0 | 11720.1 | 11821.8 | 11777.7 | 11947.2 | 12711.2 | 12748.5 | 11726.9 | 10149.7 | 8084.5 |
| 57.5° | 12057.3 | 12680.7 | 13221.2 | 13365.2 | 13504.1 | 14054.7 | 15294.8 | 14917.0 | 13261.8 | 11298.3 | 8501.3 |
| 60°   | 13492.2 | 14857.7 | 15735.3 | 16196.1 | 16521.4 | 17290.5 | 18469.6 | 17512.4 | 15174.5 | 12665.5 | 9024.7 |
| 62.5° | 15501.5 | 17497.2 | 18964.3 | 19426.8 | 19560.7 | 20002.8 | 20856.7 | 19025.3 | 16216.4 | 13278.8 | 9070.5 |
| 65°   | 16997.4 | 19391.3 | 21148.1 | 21385.3 | 21226.0 | 21234.5 | 21458.1 | 18945.7 | 15828.5 | 12743.4 | 8284.4 |
| 67°   | 16899.2 | 19579.3 | 21378.5 | 21690.2 | 21470.0 | 21180.3 | 20831.3 | 17866.5 | 14581.6 | 11621.9 | 7254.4 |
| 67.5° | 16748.4 | 19398.0 | 21278.5 | 21607.2 | 21405.6 | 21075.2 | 20565.3 | 17448.1 | 14193.6 | 11272.9 | 7044.3 |
| 70°   | 14478.2 | 17109.2 | 19642.0 | 20104.5 | 20189.2 | 19887.6 | 18456.1 | 14712.0 | 11523.6 | 9170.4  | 5470.4 |
| 72.5° | 11269.5 | 13612.5 | 16118.2 | 16519.7 | 16844.9 | 15975.8 | 13432.9 | 10161.5 | 8399.6  | 6608.9  | 3960.9 |
| 75°   | 7440.7  | 9824.4  | 11088.2 | 11147.5 | 10732.4 | 9123.0  | 6563.1  | 5089.2  | 4684.3  | 3884.7  | 2451.4 |
| 77.5° | 3981.3  | 5777.1  | 5812.6  | 5382.3  | 5185.8  | 3866.1  | 1568.8  | 865.7   | 964.0   | 1094.4  | 975.8  |
| 80°   | 2969.8  | 3679.7  | 4264.2  | 4584.4  | 4679.2  | 3315.5  | 811.5   | 459.1   | 401.5   | 365.9   | 360.9  |
| 82.5° | 2678.5  | 3554.3  | 3984.6  | 4159.1  | 4115.1  | 2727.6  | 455.7   | 308.3   | 255.8   | 277.8   | 316.8  |
| 85°   | 1050.4  | 1897.4  | 2495.5  | 2415.9  | 2029.6  | 1016.5  | 249.0   | 166.0   | 166.0   | 240.6   | 311.7  |
| 87.5° | 215.2   | 389.7   | 528.6   | 504.9   | 454.0   | 196.5   | 122.0   | 100.0   | 101.6   | 194.8   | 294.8  |
| 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: P158507

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7060

**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 |
| 2.5°  | 2751.3 | 2741.1 | 2734.4 | 2727.6 | 2720.8 | 2717.4 | 2712.3 | 2712.3 | 2702.2 | 2698.8 | 2695.4 |
| 5°    | 2763.2 | 2746.2 | 2734.4 | 2719.1 | 2707.3 | 2697.1 | 2683.5 | 2680.1 | 2668.3 | 2659.8 | 2656.4 |
| 7.5°  | 2814.0 | 2788.6 | 2763.2 | 2744.5 | 2727.6 | 2705.6 | 2690.3 | 2676.8 | 2664.9 | 2656.4 | 2646.3 |
| 10°   | 2910.6 | 2883.4 | 2847.9 | 2814.0 | 2792.0 | 2758.1 | 2734.4 | 2710.6 | 2697.1 | 2686.9 | 2673.4 |
| 12.5° | 3052.9 | 3013.9 | 2971.5 | 2930.9 | 2893.6 | 2849.6 | 2825.8 | 2797.0 | 2780.1 | 2771.6 | 2761.5 |
| 15°   | 3198.6 | 3156.2 | 3103.7 | 3064.7 | 3022.4 | 2988.5 | 2966.5 | 2941.0 | 2927.5 | 2917.3 | 2910.6 |
| 17.5° | 3347.6 | 3298.5 | 3261.2 | 3222.3 | 3201.9 | 3176.5 | 3147.7 | 3115.5 | 3076.6 | 3052.9 | 3020.7 |
| 20°   | 3500.1 | 3462.8 | 3440.8 | 3418.8 | 3395.1 | 3359.5 | 3301.9 | 3235.8 | 3163.0 | 3093.5 | 3027.4 |
| 22.5° | 3678.0 | 3656.0 | 3652.6 | 3632.3 | 3583.1 | 3498.4 | 3391.7 | 3268.0 | 3144.3 | 3029.1 | 2939.4 |
| 25°   | 3928.7 | 3928.7 | 3911.8 | 3828.8 | 3713.6 | 3561.1 | 3381.5 | 3203.6 | 3039.3 | 2881.8 | 2763.2 |
| 27.5° | 4243.8 | 4232.0 | 4149.0 | 3977.9 | 3771.2 | 3534.0 | 3293.4 | 3068.1 | 2858.0 | 2685.2 | 2532.8 |
| 30°   | 4591.1 | 4508.1 | 4330.3 | 4060.9 | 3750.9 | 3445.9 | 3151.1 | 2890.2 | 2642.9 | 2431.1 | 2251.5 |
| 32.5° | 4952.0 | 4750.4 | 4430.2 | 4060.9 | 3679.7 | 3313.8 | 2973.2 | 2653.0 | 2370.1 | 2132.9 | 1919.5 |
| 35°   | 5279.0 | 4911.3 | 4453.9 | 3994.8 | 3540.8 | 3118.9 | 2724.2 | 2361.6 | 2022.8 | 1767.0 | 1533.2 |
| 37.5° | 5575.5 | 5018.1 | 4428.5 | 3866.1 | 3339.2 | 2844.5 | 2382.0 | 1982.2 | 1599.3 | 1351.9 | 1152.0 |
| 40°   | 5768.6 | 5040.1 | 4323.5 | 3664.4 | 3051.2 | 2473.5 | 1961.8 | 1514.6 | 1211.3 | 986.0  | 852.2  |
| 42.5° | 5888.9 | 4997.7 | 4154.1 | 3388.3 | 2663.2 | 2007.6 | 1472.2 | 1086.0 | 860.6  | 735.3  | 684.4  |
| 45°   | 5956.6 | 4887.6 | 3903.3 | 3010.5 | 2193.9 | 1526.4 | 1045.3 | 784.4  | 662.4  | 618.4  | 601.4  |
| 47.5° | 5953.2 | 4709.7 | 3589.9 | 2573.4 | 1675.5 | 1063.9 | 740.3  | 611.6  | 577.7  | 564.2  | 560.8  |
| 50°   | 5917.7 | 4491.2 | 3222.3 | 2099.1 | 1209.6 | 742.0  | 586.2  | 548.9  | 540.4  | 532.0  | 528.6  |
| 52.5° | 5868.5 | 4220.1 | 2815.7 | 1636.6 | 858.9  | 593.0  | 532.0  | 521.8  | 515.0  | 506.6  | 503.2  |
| 55°   | 5777.1 | 3886.4 | 2375.2 | 1231.6 | 672.6  | 535.4  | 513.3  | 509.9  | 501.5  | 489.6  | 482.8  |
| 57.5° | 5665.2 | 3547.6 | 1953.4 | 962.3  | 594.6  | 521.8  | 509.9  | 504.9  | 493.0  | 479.4  | 465.9  |
| 60°   | 5624.6 | 3268.0 | 1623.0 | 811.5  | 576.0  | 526.9  | 518.4  | 511.6  | 494.7  | 474.4  | 459.1  |
| 62.5° | 5370.5 | 2952.9 | 1385.8 | 752.2  | 586.2  | 548.9  | 545.5  | 535.4  | 509.9  | 486.2  | 462.5  |
| 65°   | 4713.1 | 2497.2 | 1174.0 | 711.5  | 606.5  | 586.2  | 589.6  | 574.3  | 548.9  | 516.7  | 474.4  |
| 67°   | 3986.3 | 2036.4 | 977.5  | 672.6  | 621.8  | 625.1  | 637.0  | 625.1  | 593.0  | 547.2  | 489.6  |
| 67.5° | 3793.2 | 1919.5 | 928.4  | 660.7  | 625.1  | 635.3  | 648.9  | 640.4  | 608.2  | 555.7  | 496.4  |
| 70°   | 2819.1 | 1351.9 | 692.9  | 598.0  | 625.1  | 665.8  | 696.3  | 704.8  | 669.2  | 596.3  | 509.9  |
| 72.5° | 1985.5 | 872.5  | 532.0  | 518.4  | 567.5  | 621.8  | 679.4  | 708.2  | 667.5  | 587.9  | 491.3  |
| 75°   | 1192.7 | 545.5  | 432.0  | 440.5  | 477.8  | 533.7  | 579.4  | 591.3  | 540.4  | 489.6  | 425.2  |
| 77.5° | 552.3  | 362.5  | 338.8  | 350.7  | 386.3  | 411.7  | 411.7  | 388.0  | 349.0  | 318.5  | 304.9  |
| 80°   | 325.3  | 296.5  | 294.8  | 316.8  | 340.5  | 321.9  | 293.1  | 260.9  | 240.6  | 230.4  | 225.3  |
| 82.5° | 304.9  | 316.8  | 337.1  | 342.2  | 323.6  | 277.8  | 242.3  | 210.1  | 199.9  | 194.8  | 189.7  |
| 85°   | 359.2  | 384.6  | 350.7  | 323.6  | 286.3  | 233.8  | 189.7  | 162.6  | 157.6  | 152.5  | 145.7  |
| 87.5° | 332.1  | 316.8  | 276.1  | 237.2  | 196.5  | 142.3  | 103.3  | 93.2   | 100.0  | 98.3   | 94.9   |
| 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: P158507

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7060

**CANDELA DISTRIBUTION (continued):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2769.9 | 2769.9 | 2769.9 | 2769.9 | 2769.9 |
| 2.5°  | 2697.1 | 2697.1 | 2690.3 | 2686.9 | 2695.4 |
| 5°    | 2649.7 | 2651.3 | 2646.3 | 2644.6 | 2646.3 |
| 7.5°  | 2639.5 | 2637.8 | 2634.4 | 2631.0 | 2634.4 |
| 10°   | 2670.0 | 2668.3 | 2663.2 | 2666.6 | 2661.5 |
| 12.5° | 2761.5 | 2771.6 | 2769.9 | 2773.3 | 2780.1 |
| 15°   | 2910.6 | 2908.9 | 2903.8 | 2907.2 | 2912.2 |
| 17.5° | 2995.3 | 2981.7 | 2969.8 | 2964.8 | 2964.8 |
| 20°   | 2974.9 | 2936.0 | 2915.6 | 2903.8 | 2900.4 |
| 22.5° | 2854.6 | 2798.7 | 2756.4 | 2746.2 | 2737.7 |
| 25°   | 2658.1 | 2588.7 | 2534.5 | 2522.6 | 2500.6 |
| 27.5° | 2429.4 | 2336.2 | 2271.9 | 2258.3 | 2246.4 |
| 30°   | 2129.5 | 2022.8 | 1948.3 | 1900.8 | 1916.1 |
| 32.5° | 1763.6 | 1662.0 | 1575.6 | 1499.3 | 1487.5 |
| 35°   | 1362.1 | 1250.3 | 1174.0 | 1140.2 | 1118.1 |
| 37.5° | 1016.5 | 923.3  | 872.5  | 840.3  | 842.0  |
| 40°   | 777.6  | 728.5  | 701.4  | 679.4  | 681.0  |
| 42.5° | 648.9  | 626.8  | 620.1  | 609.9  | 604.8  |
| 45°   | 587.9  | 581.1  | 582.8  | 572.6  | 569.2  |
| 47.5° | 554.0  | 548.9  | 550.6  | 543.8  | 542.1  |
| 50°   | 526.9  | 523.5  | 525.2  | 520.1  | 518.4  |
| 52.5° | 499.8  | 501.5  | 499.8  | 496.4  | 496.4  |
| 55°   | 476.1  | 474.4  | 477.8  | 472.7  | 472.7  |
| 57.5° | 457.4  | 455.7  | 455.7  | 454.0  | 454.0  |
| 60°   | 447.3  | 440.5  | 438.8  | 438.8  | 440.5  |
| 62.5° | 442.2  | 430.3  | 428.6  | 428.6  | 430.3  |
| 65°   | 443.9  | 425.2  | 418.5  | 416.8  | 415.1  |
| 67°   | 445.6  | 418.5  | 404.9  | 398.1  | 396.4  |
| 67.5° | 447.3  | 415.1  | 399.8  | 393.0  | 389.7  |
| 70°   | 437.1  | 391.3  | 369.3  | 357.5  | 354.1  |
| 72.5° | 411.7  | 362.5  | 335.4  | 320.2  | 316.8  |
| 75°   | 365.9  | 328.7  | 304.9  | 288.0  | 281.2  |
| 77.5° | 282.9  | 266.0  | 257.5  | 247.3  | 244.0  |
| 80°   | 220.2  | 211.8  | 208.4  | 201.6  | 199.9  |
| 82.5° | 183.0  | 174.5  | 169.4  | 160.9  | 155.9  |
| 85°   | 142.3  | 132.1  | 128.8  | 122.0  | 118.6  |
| 87.5° | 93.2   | 88.1   | 86.4   | 77.9   | 74.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)