

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: P158504

Luminaire Tested: **VST-F10-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158504  
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-SL3-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (70) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22747 lumens  
Efficiency: N/A  
Efficacy: 87.9 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



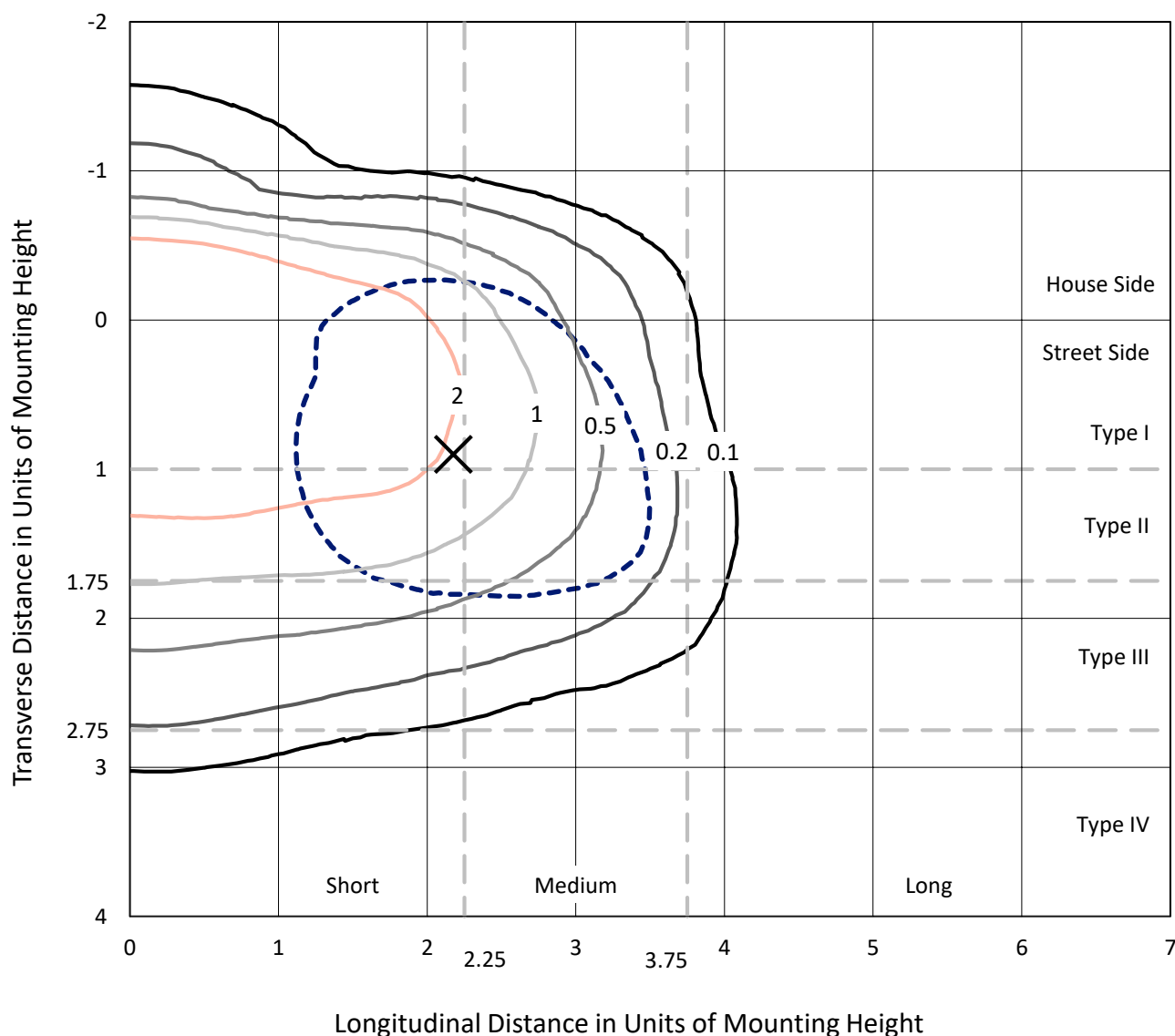
REPORT NUMBER: P158504

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

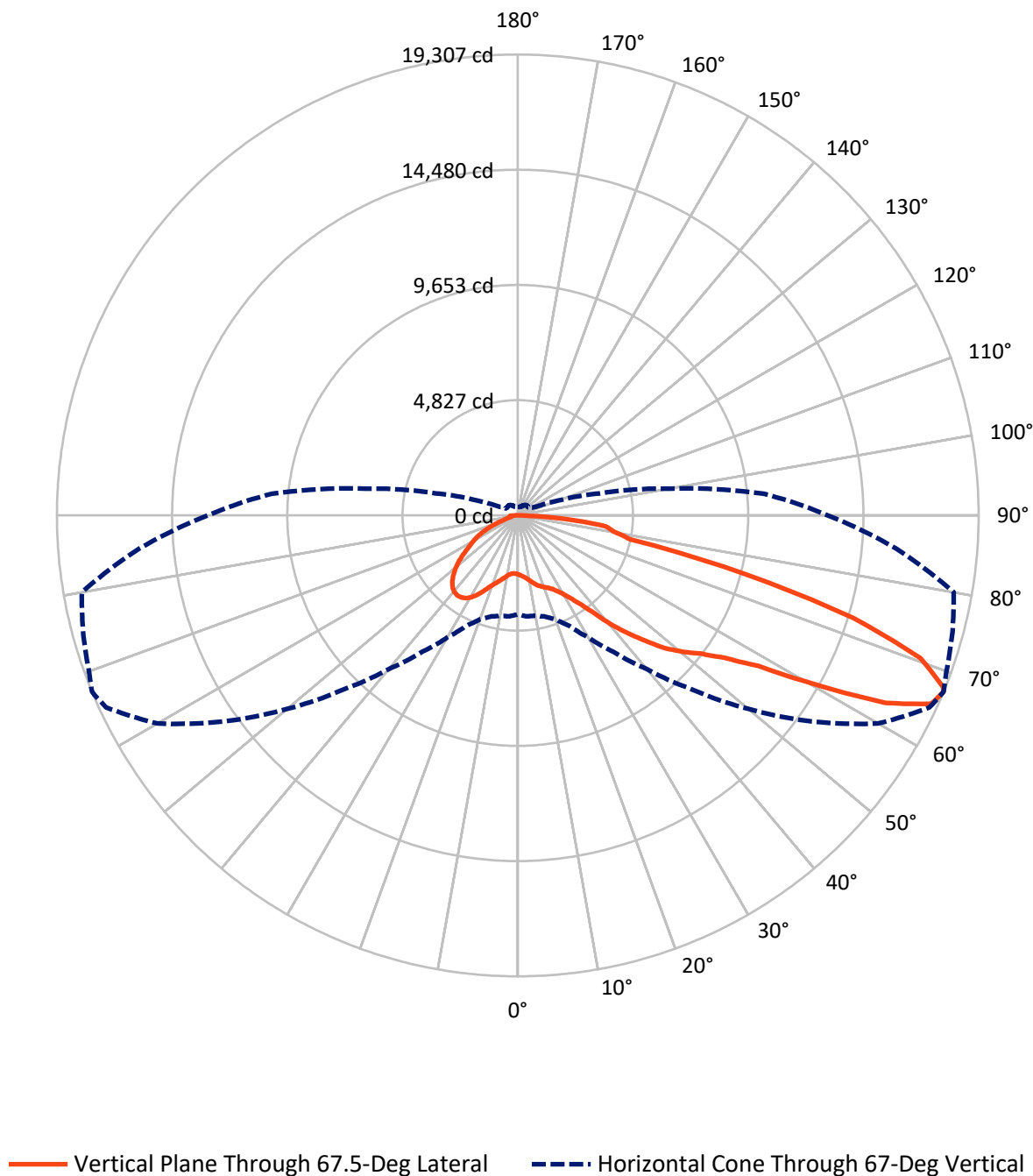


Based on 25 foot mounting height. Maximum calculated value = 5 fc  
Type III - Short - Semi-Cutoff

REPORT NUMBER: P158504

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7030

## Luminous Intensity Polar Plot



REPORT NUMBER: P158504

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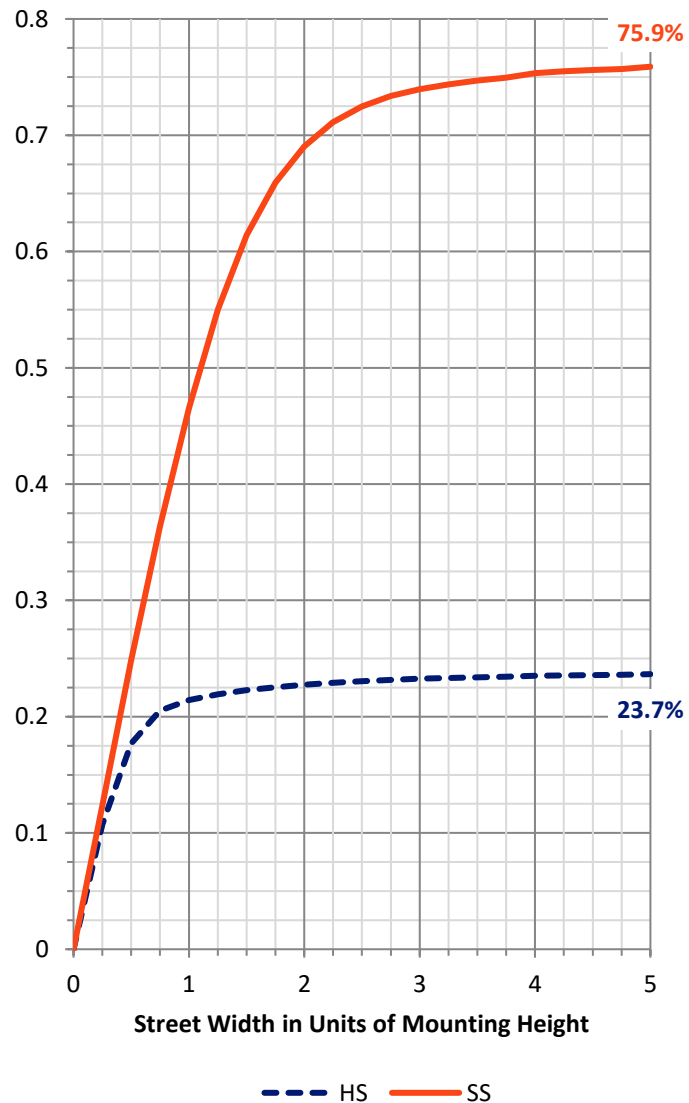
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5457.0   | 0.0    | 5457.0  |
|                    | % Fixture | 24.0     | 0.0    | 24.0    |
| <b>Street Side</b> | Lumens    | 17289.9  | 0.0    | 17289.9 |
|                    | % Fixture | 76.0     | 0.0    | 76.0    |
| <b>Total</b>       | Lumens    | 22747.0  | 0.0    | 22747.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 245.0   | 1.1       |
| 10°-20°   | 834.9   | 3.7       |
| 20°-30°   | 1490.5  | 6.6       |
| 30°-40°   | 2184.4  | 9.6       |
| 40°-50°   | 3375.3  | 14.8      |
| 50°-60°   | 4915.0  | 21.6      |
| 60°-70°   | 6402.6  | 28.1      |
| 70°-80°   | 2866.0  | 12.6      |
| 80°-90°   | 433.3   | 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°    | 22747.0 | 100.0     |
| 0°-180°   | 22747.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P158504

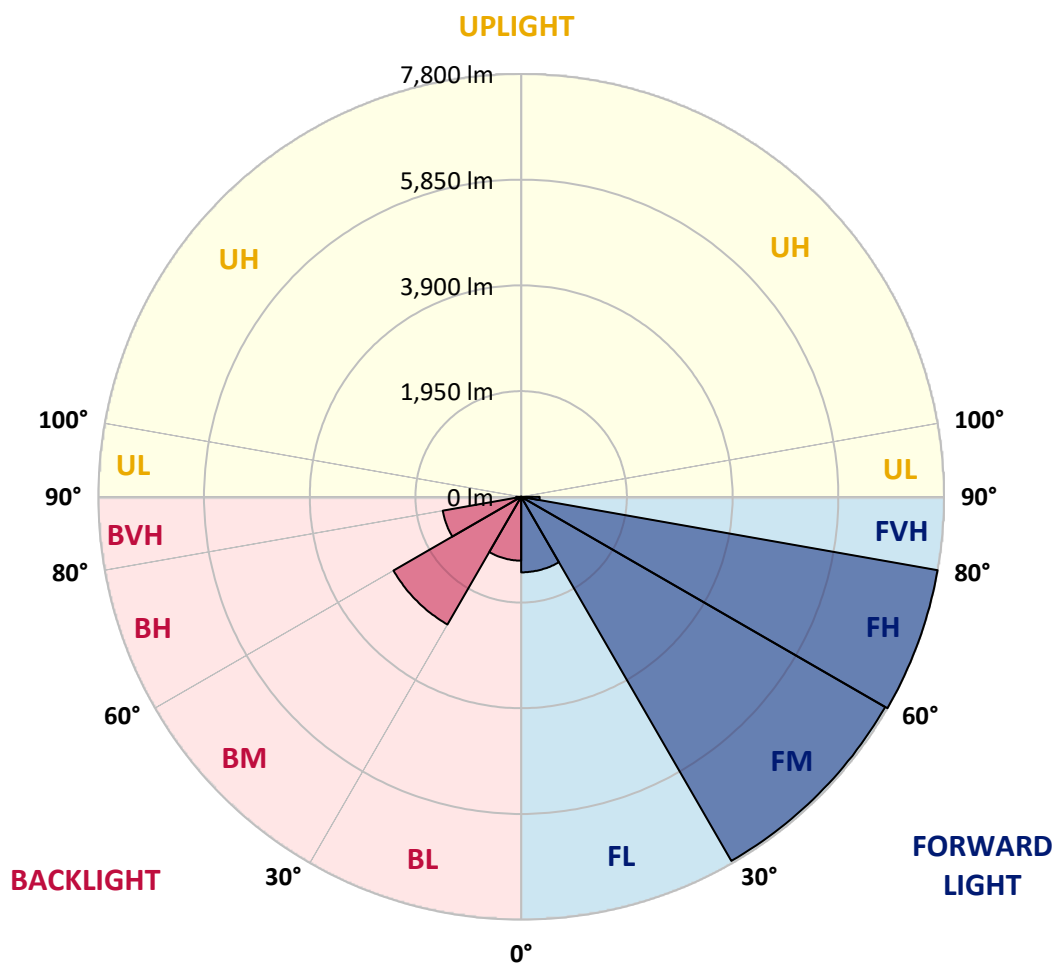
CATALOG NUMBER: VST-F10-LED-E-U-SL3-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1393.7 | 6.1       |                         |      |          |
| FM   | (30°-60°)   | 7755.5 | 34.1      |                         |      |          |
| FH   | (60°-80°)   | 7800.4 | 34.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 340.3  | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1176.7 | 5.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2719.1 | 12.0      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1468.1 | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 93.0   | 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-G4**

Type III Short





REPORT NUMBER: P158504

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7030

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°     | 50°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6  | 2465.6  |
| 2.5°  | 2562.1 | 2568.1 | 2569.6 | 2568.1 | 2569.6 | 2563.6 | 2562.1 | 2553.0 | 2557.5 | 2545.5  | 2542.5  |
| 5°    | 2700.8 | 2705.3 | 2708.3 | 2696.3 | 2699.3 | 2693.3 | 2685.7 | 2676.7 | 2664.6 | 2648.0  | 2637.5  |
| 7.5°  | 2836.5 | 2844.1 | 2842.6 | 2838.0 | 2827.5 | 2821.4 | 2806.4 | 2792.8 | 2771.7 | 2752.1  | 2738.5  |
| 10°   | 3019.0 | 3017.5 | 3017.5 | 2991.8 | 2976.8 | 2963.2 | 2936.1 | 2914.9 | 2893.8 | 2865.2  | 2850.1  |
| 12.5° | 3230.1 | 3219.6 | 3215.0 | 3196.9 | 3165.3 | 3141.1 | 3101.9 | 3061.2 | 3023.5 | 2993.4  | 2969.2  |
| 15°   | 3433.7 | 3433.7 | 3421.6 | 3393.0 | 3362.8 | 3331.1 | 3275.3 | 3216.5 | 3154.7 | 3106.5  | 3082.3  |
| 17.5° | 3619.2 | 3602.6 | 3592.0 | 3554.3 | 3522.7 | 3471.4 | 3409.6 | 3346.2 | 3269.3 | 3201.5  | 3154.7  |
| 20°   | 3754.9 | 3741.3 | 3718.7 | 3671.9 | 3617.7 | 3557.3 | 3485.0 | 3411.1 | 3328.1 | 3254.2  | 3201.5  |
| 22.5° | 3833.3 | 3816.7 | 3782.0 | 3720.2 | 3646.3 | 3561.9 | 3477.4 | 3408.1 | 3332.7 | 3276.9  | 3233.1  |
| 25°   | 3874.0 | 3857.4 | 3810.7 | 3729.3 | 3629.7 | 3518.1 | 3421.6 | 3353.8 | 3310.0 | 3296.5  | 3290.4  |
| 27.5° | 3872.5 | 3858.9 | 3809.2 | 3715.7 | 3587.5 | 3459.3 | 3355.3 | 3298.0 | 3293.4 | 3346.2  | 3385.4  |
| 30°   | 3833.3 | 3824.3 | 3779.0 | 3685.5 | 3551.3 | 3417.1 | 3320.6 | 3290.4 | 3337.2 | 3448.8  | 3545.3  |
| 32.5° | 3794.1 | 3789.6 | 3757.9 | 3673.5 | 3558.8 | 3445.8 | 3379.4 | 3382.4 | 3478.9 | 3650.8  | 3806.2  |
| 35°   | 3798.6 | 3804.7 | 3800.1 | 3754.9 | 3682.5 | 3623.7 | 3592.0 | 3658.4 | 3809.2 | 4017.3  | 4225.4  |
| 37.5° | 3837.8 | 3860.4 | 3889.1 | 3893.6 | 3895.1 | 3886.1 | 3952.4 | 4092.7 | 4312.8 | 4584.3  | 4910.0  |
| 40°   | 3923.8 | 3949.4 | 4032.4 | 4104.7 | 4198.2 | 4309.8 | 4444.0 | 4638.6 | 4911.5 | 5246.3  | 5645.9  |
| 42.5° | 4190.7 | 4226.9 | 4329.4 | 4463.6 | 4635.6 | 4810.5 | 5011.0 | 5276.4 | 5611.2 | 5964.1  | 6383.3  |
| 45°   | 4539.0 | 4614.4 | 4727.5 | 4876.8 | 5134.7 | 5380.5 | 5639.9 | 5936.9 | 6292.8 | 6734.7  | 7156.9  |
| 47.5° | 4973.3 | 5048.7 | 5213.1 | 5373.0 | 5677.6 | 5983.7 | 6267.2 | 6577.8 | 6963.9 | 7416.3  | 7883.8  |
| 50°   | 5353.4 | 5439.3 | 5585.6 | 5801.2 | 6154.1 | 6529.6 | 6843.2 | 7179.5 | 7503.7 | 7980.3  | 8452.3  |
| 52.5° | 5651.9 | 5713.8 | 5854.0 | 6051.6 | 6445.1 | 6856.8 | 7253.4 | 7627.4 | 8011.9 | 8488.5  | 8925.8  |
| 55°   | 5689.6 | 5746.9 | 5884.2 | 6110.4 | 6510.0 | 6966.9 | 7423.8 | 7867.2 | 8411.6 | 8931.8  | 9510.9  |
| 57.5° | 5526.8 | 5573.5 | 5712.3 | 5914.3 | 6303.4 | 6823.6 | 7401.2 | 7969.7 | 8666.4 | 9369.1  | 10076.4 |
| 60°   | 5296.1 | 5342.8 | 5451.4 | 5612.7 | 5964.1 | 6525.1 | 7199.1 | 7977.3 | 8903.2 | 9918.0  | 10958.5 |
| 62.5° | 5042.7 | 5083.4 | 5170.9 | 5285.5 | 5594.6 | 6111.9 | 6884.0 | 7927.5 | 9096.2 | 10463.9 | 12068.4 |
| 65°   | 4615.9 | 4714.0 | 4751.7 | 4869.3 | 5178.4 | 5667.0 | 6452.7 | 7591.2 | 9017.8 | 10706.7 | 12765.1 |
| 67°   | 4143.9 | 4243.5 | 4263.1 | 4382.2 | 4629.5 | 5098.5 | 5897.7 | 6968.4 | 8396.5 | 10287.5 | 12611.3 |
| 67.5° | 3993.1 | 4077.6 | 4107.8 | 4226.9 | 4460.6 | 4902.5 | 5661.0 | 6743.7 | 8206.5 | 10058.3 | 12425.8 |
| 70°   | 2936.1 | 3029.5 | 3062.7 | 3112.5 | 3279.9 | 3647.8 | 4150.0 | 5089.5 | 6543.2 | 8208.0  | 10482.0 |
| 72.5° | 1571.3 | 1646.7 | 1678.4 | 1752.3 | 1838.2 | 2038.8 | 2423.3 | 3097.4 | 4015.8 | 5492.1  | 7457.0  |
| 75°   | 1063.1 | 1093.3 | 1115.9 | 1167.2 | 1256.2 | 1416.0 | 1584.9 | 1821.6 | 2376.6 | 3098.9  | 4243.5  |
| 77.5° | 606.2  | 619.8  | 622.8  | 631.8  | 702.7  | 855.0  | 1132.5 | 1533.6 | 1966.4 | 2245.4  | 2714.4  |
| 80°   | 262.4  | 289.5  | 310.6  | 297.1  | 292.5  | 324.2  | 405.6  | 604.7  | 1185.3 | 1882.0  | 2233.3  |
| 82.5° | 141.8  | 153.8  | 171.9  | 173.4  | 182.5  | 193.0  | 209.6  | 248.8  | 349.9  | 705.7   | 1539.7  |
| 85°   | 73.9   | 76.9   | 102.5  | 117.6  | 125.2  | 131.2  | 134.2  | 149.3  | 171.9  | 218.7   | 383.0   |
| 87.5° | 10.6   | 15.1   | 18.1   | 24.1   | 27.1   | 28.7   | 33.2   | 42.2   | 49.8   | 60.3    | 102.5   |
| 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: P158504

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7030

**CANDELA DISTRIBUTION (continued):**

|       | 55°     | 60°     | 65°     | 67.5°   | 70°     | 75°     | 80°     | 85°     | 90°     | 95°     | 100°   |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 2465.6  | 2465.6  | 2465.6  | 2465.6  | 2465.6  | 2465.6  | 2465.6  | 2465.6  | 2465.6  | 2465.6  | 2465.6 |
| 2.5°  | 2528.9  | 2525.9  | 2516.8  | 2510.8  | 2504.8  | 2498.7  | 2491.2  | 2485.2  | 2474.6  | 2467.1  | 2458.0 |
| 5°    | 2622.4  | 2604.3  | 2592.2  | 2575.6  | 2572.6  | 2553.0  | 2533.4  | 2524.4  | 2506.3  | 2491.2  | 2473.1 |
| 7.5°  | 2717.4  | 2696.3  | 2676.7  | 2663.1  | 2655.6  | 2628.4  | 2608.8  | 2586.2  | 2565.1  | 2545.5  | 2524.4 |
| 10°   | 2829.0  | 2807.9  | 2786.8  | 2777.7  | 2764.1  | 2738.5  | 2721.9  | 2693.3  | 2672.2  | 2648.0  | 2619.4 |
| 12.5° | 2945.1  | 2930.0  | 2914.9  | 2902.9  | 2896.8  | 2884.8  | 2860.7  | 2836.5  | 2807.9  | 2783.7  | 2750.6 |
| 15°   | 3047.6  | 3037.1  | 3031.1  | 3028.0  | 3028.0  | 3020.5  | 2997.9  | 2975.3  | 2945.1  | 2918.0  | 2881.8 |
| 17.5° | 3120.0  | 3115.5  | 3120.0  | 3124.5  | 3130.6  | 3124.5  | 3120.0  | 3094.4  | 3074.8  | 3041.6  | 3005.4 |
| 20°   | 3162.2  | 3171.3  | 3193.9  | 3209.0  | 3222.6  | 3233.1  | 3237.6  | 3216.5  | 3190.9  | 3166.8  | 3142.6 |
| 22.5° | 3207.5  | 3233.1  | 3272.3  | 3295.0  | 3317.6  | 3355.3  | 3364.3  | 3349.2  | 3329.6  | 3314.6  | 3288.9 |
| 25°   | 3282.9  | 3320.6  | 3388.4  | 3424.6  | 3456.3  | 3512.1  | 3519.6  | 3522.7  | 3518.1  | 3506.1  | 3474.4 |
| 27.5° | 3400.5  | 3474.4  | 3564.9  | 3611.6  | 3646.3  | 3718.7  | 3747.3  | 3747.3  | 3735.3  | 3748.9  | 3748.9 |
| 30°   | 3605.6  | 3703.6  | 3821.2  | 3848.4  | 3902.7  | 3966.0  | 4012.8  | 4018.8  | 4020.3  | 4048.9  | 4091.2 |
| 32.5° | 3920.8  | 4014.3  | 4145.5  | 4175.6  | 4222.4  | 4282.7  | 4335.5  | 4329.4  | 4343.0  | 4404.8  | 4460.6 |
| 35°   | 4379.2  | 4474.2  | 4560.2  | 4600.9  | 4622.0  | 4676.3  | 4695.9  | 4729.0  | 4769.8  | 4846.7  | 4839.1 |
| 37.5° | 5057.8  | 5142.2  | 5154.3  | 5179.9  | 5154.3  | 5164.9  | 5179.9  | 5219.1  | 5327.7  | 5397.1  | 5285.5 |
| 40°   | 5875.1  | 6015.4  | 6001.8  | 5971.6  | 5914.3  | 5837.4  | 5864.6  | 5924.9  | 6042.5  | 5982.2  | 5682.1 |
| 42.5° | 6645.7  | 6790.5  | 6763.3  | 6728.6  | 6602.0  | 6573.3  | 6570.3  | 6620.1  | 6683.4  | 6511.5  | 5992.7 |
| 45°   | 7404.2  | 7552.0  | 7505.3  | 7485.6  | 7401.2  | 7339.4  | 7390.6  | 7393.7  | 7377.1  | 7009.1  | 6264.2 |
| 47.5° | 8186.9  | 8322.6  | 8292.4  | 8309.0  | 8221.5  | 8180.8  | 8185.4  | 8164.2  | 8008.9  | 7431.4  | 6475.3 |
| 50°   | 8818.7  | 9001.2  | 9019.3  | 8981.6  | 8934.8  | 8873.0  | 9031.3  | 8974.0  | 8628.7  | 7841.5  | 6678.9 |
| 52.5° | 9310.3  | 9556.1  | 9649.6  | 9625.5  | 9587.8  | 9595.3  | 9892.4  | 9957.2  | 9385.7  | 8358.8  | 6903.6 |
| 55°   | 9892.4  | 10279.9 | 10432.3 | 10522.7 | 10483.5 | 10634.3 | 11314.4 | 11347.6 | 10438.3 | 9034.3  | 7196.1 |
| 57.5° | 10732.3 | 11287.3 | 11768.3 | 11896.5 | 12020.2 | 12510.3 | 13614.1 | 13277.8 | 11804.5 | 10056.8 | 7567.1 |
| 60°   | 12009.6 | 13225.0 | 14006.2 | 14416.4 | 14705.9 | 15390.5 | 16440.1 | 15588.1 | 13507.0 | 11273.7 | 8033.0 |
| 62.5° | 13798.1 | 15574.5 | 16880.4 | 17292.1 | 17411.2 | 17804.8 | 18564.8 | 16934.7 | 14434.5 | 11819.6 | 8073.8 |
| 65°   | 15129.6 | 17260.4 | 18824.2 | 19035.3 | 18893.6 | 18901.1 | 19100.2 | 16863.8 | 14089.1 | 11343.1 | 7374.1 |
| 67°   | 15042.2 | 17427.8 | 19029.3 | 19306.8 | 19110.7 | 18852.9 | 18542.2 | 15903.2 | 12979.2 | 10344.8 | 6457.2 |
| 67.5° | 14908.0 | 17266.5 | 18940.3 | 19232.9 | 19053.4 | 18759.4 | 18305.5 | 15530.8 | 12633.9 | 10034.1 | 6270.2 |
| 70°   | 12887.3 | 15229.2 | 17483.6 | 17895.3 | 17970.7 | 17702.3 | 16428.0 | 13095.4 | 10257.3 | 8162.7  | 4869.3 |
| 72.5° | 10031.1 | 12116.7 | 14347.0 | 14704.4 | 14993.9 | 14220.3 | 11956.8 | 9044.9  | 7476.6  | 5882.7  | 3525.7 |
| 75°   | 6623.1  | 8744.8  | 9869.8  | 9922.6  | 9553.1  | 8120.5  | 5841.9  | 4530.0  | 4169.6  | 3457.8  | 2182.1 |
| 77.5° | 3543.8  | 5142.2  | 5173.9  | 4790.9  | 4615.9  | 3441.2  | 1396.4  | 770.6   | 858.0   | 974.2   | 868.6  |
| 80°   | 2643.5  | 3275.3  | 3795.6  | 4080.6  | 4165.1  | 2951.1  | 722.3   | 408.7   | 357.4   | 325.7   | 321.2  |
| 82.5° | 2384.1  | 3163.8  | 3546.8  | 3702.1  | 3662.9  | 2427.9  | 405.6   | 274.5   | 227.7   | 247.3   | 282.0  |
| 85°   | 935.0   | 1688.9  | 2221.3  | 2150.4  | 1806.6  | 904.8   | 221.7   | 147.8   | 147.8   | 214.1   | 277.5  |
| 87.5° | 191.5   | 346.8   | 470.5   | 449.4   | 404.1   | 174.9   | 108.6   | 89.0    | 90.5    | 173.4   | 262.4  |
| 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: P158504

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7030

**CANDELA DISTRIBUTION (continued):**

|       | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 |
| 2.5°  | 2449.0 | 2439.9 | 2433.9 | 2427.9 | 2421.8 | 2418.8 | 2414.3 | 2414.3 | 2405.2 | 2402.2 | 2399.2 |
| 5°    | 2459.5 | 2444.4 | 2433.9 | 2420.3 | 2409.8 | 2400.7 | 2388.7 | 2385.6 | 2375.1 | 2367.5 | 2364.5 |
| 7.5°  | 2504.8 | 2482.1 | 2459.5 | 2442.9 | 2427.9 | 2408.3 | 2394.7 | 2382.6 | 2372.1 | 2364.5 | 2355.5 |
| 10°   | 2590.7 | 2566.6 | 2534.9 | 2504.8 | 2485.2 | 2455.0 | 2433.9 | 2412.8 | 2400.7 | 2391.7 | 2379.6 |
| 12.5° | 2717.4 | 2682.7 | 2645.0 | 2608.8 | 2575.6 | 2536.4 | 2515.3 | 2489.7 | 2474.6 | 2467.1 | 2458.0 |
| 15°   | 2847.1 | 2809.4 | 2762.6 | 2727.9 | 2690.2 | 2660.1 | 2640.5 | 2617.9 | 2605.8 | 2596.8 | 2590.7 |
| 17.5° | 2979.8 | 2936.1 | 2902.9 | 2868.2 | 2850.1 | 2827.5 | 2801.8 | 2773.2 | 2738.5 | 2717.4 | 2688.7 |
| 20°   | 3115.5 | 3082.3 | 3062.7 | 3043.1 | 3022.0 | 2990.3 | 2939.1 | 2880.3 | 2815.4 | 2753.6 | 2694.8 |
| 22.5° | 3273.8 | 3254.2 | 3251.2 | 3233.1 | 3189.4 | 3114.0 | 3019.0 | 2908.9 | 2798.8 | 2696.3 | 2616.4 |
| 25°   | 3497.0 | 3497.0 | 3481.9 | 3408.1 | 3305.5 | 3169.8 | 3009.9 | 2851.6 | 2705.3 | 2565.1 | 2459.5 |
| 27.5° | 3777.5 | 3767.0 | 3693.1 | 3540.8 | 3356.8 | 3145.7 | 2931.5 | 2731.0 | 2544.0 | 2390.2 | 2254.4 |
| 30°   | 4086.6 | 4012.8 | 3854.4 | 3614.6 | 3338.7 | 3067.2 | 2804.9 | 2572.6 | 2352.5 | 2164.0 | 2004.1 |
| 32.5° | 4407.8 | 4228.4 | 3943.4 | 3614.6 | 3275.3 | 2949.6 | 2646.5 | 2361.5 | 2109.7 | 1898.6 | 1708.5 |
| 35°   | 4698.9 | 4371.7 | 3964.5 | 3555.8 | 3151.7 | 2776.2 | 2424.8 | 2102.1 | 1800.5 | 1572.8 | 1364.7 |
| 37.5° | 4962.8 | 4466.7 | 3941.9 | 3441.2 | 2972.2 | 2531.9 | 2120.2 | 1764.3 | 1423.5 | 1203.4 | 1025.4 |
| 40°   | 5134.7 | 4486.3 | 3848.4 | 3261.8 | 2715.9 | 2201.7 | 1746.2 | 1348.1 | 1078.2 | 877.6  | 758.5  |
| 42.5° | 5241.8 | 4448.6 | 3697.6 | 3016.0 | 2370.6 | 1787.0 | 1310.4 | 966.6  | 766.1  | 654.5  | 609.2  |
| 45°   | 5302.1 | 4350.5 | 3474.4 | 2679.7 | 1952.8 | 1358.7 | 930.4  | 698.2  | 589.6  | 550.4  | 535.3  |
| 47.5° | 5299.1 | 4192.2 | 3195.4 | 2290.6 | 1491.4 | 947.0  | 659.0  | 544.4  | 514.2  | 502.2  | 499.1  |
| 50°   | 5267.4 | 3997.7 | 2868.2 | 1868.4 | 1076.7 | 660.5  | 521.8  | 488.6  | 481.0  | 473.5  | 470.5  |
| 52.5° | 5223.7 | 3756.4 | 2506.3 | 1456.7 | 764.5  | 527.8  | 473.5  | 464.5  | 458.4  | 450.9  | 447.9  |
| 55°   | 5142.2 | 3459.3 | 2114.2 | 1096.3 | 598.7  | 476.5  | 456.9  | 453.9  | 446.4  | 435.8  | 429.8  |
| 57.5° | 5042.7 | 3157.7 | 1738.7 | 856.5  | 529.3  | 464.5  | 453.9  | 449.4  | 438.8  | 426.8  | 414.7  |
| 60°   | 5006.5 | 2908.9 | 1444.7 | 722.3  | 512.7  | 469.0  | 461.4  | 455.4  | 440.3  | 422.2  | 408.7  |
| 62.5° | 4780.3 | 2628.4 | 1233.5 | 669.5  | 521.8  | 488.6  | 485.6  | 476.5  | 453.9  | 432.8  | 411.7  |
| 65°   | 4195.2 | 2222.8 | 1045.0 | 633.4  | 539.9  | 521.8  | 524.8  | 511.2  | 488.6  | 459.9  | 422.2  |
| 67°   | 3548.3 | 1812.6 | 870.1  | 598.7  | 553.4  | 556.4  | 567.0  | 556.4  | 527.8  | 487.1  | 435.8  |
| 67.5° | 3376.4 | 1708.5 | 826.4  | 588.1  | 556.4  | 565.5  | 577.6  | 570.0  | 541.4  | 494.6  | 441.8  |
| 70°   | 2509.3 | 1203.4 | 616.8  | 532.3  | 556.4  | 592.6  | 619.8  | 627.3  | 595.7  | 530.8  | 453.9  |
| 72.5° | 1767.4 | 776.6  | 473.5  | 461.4  | 505.2  | 553.4  | 604.7  | 630.3  | 594.1  | 523.3  | 437.3  |
| 75°   | 1061.6 | 485.6  | 384.5  | 392.1  | 425.3  | 475.0  | 515.7  | 526.3  | 481.0  | 435.8  | 378.5  |
| 77.5° | 491.6  | 322.7  | 301.6  | 312.2  | 343.8  | 366.4  | 366.4  | 345.3  | 310.6  | 283.5  | 271.4  |
| 80°   | 289.5  | 263.9  | 262.4  | 282.0  | 303.1  | 286.5  | 260.9  | 232.2  | 214.1  | 205.1  | 200.6  |
| 82.5° | 271.4  | 282.0  | 300.1  | 304.6  | 288.0  | 247.3  | 215.6  | 187.0  | 177.9  | 173.4  | 168.9  |
| 85°   | 319.7  | 342.3  | 312.2  | 288.0  | 254.8  | 208.1  | 168.9  | 144.8  | 140.2  | 135.7  | 129.7  |
| 87.5° | 295.6  | 282.0  | 245.8  | 211.1  | 174.9  | 126.7  | 92.0   | 82.9   | 89.0   | 87.5   | 84.4   |
| 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: P158504

CATALOG NUMBER: VST-F10-LED-E-U-SL3-7030

**CANDELA DISTRIBUTION (continued):**

|       | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2465.6 | 2465.6 | 2465.6 | 2465.6 | 2465.6 |
| 2.5°  | 2400.7 | 2400.7 | 2394.7 | 2391.7 | 2399.2 |
| 5°    | 2358.5 | 2360.0 | 2355.5 | 2354.0 | 2355.5 |
| 7.5°  | 2349.4 | 2347.9 | 2344.9 | 2341.9 | 2344.9 |
| 10°   | 2376.6 | 2375.1 | 2370.6 | 2373.6 | 2369.0 |
| 12.5° | 2458.0 | 2467.1 | 2465.6 | 2468.6 | 2474.6 |
| 15°   | 2590.7 | 2589.2 | 2584.7 | 2587.7 | 2592.2 |
| 17.5° | 2666.1 | 2654.1 | 2643.5 | 2639.0 | 2639.0 |
| 20°   | 2648.0 | 2613.3 | 2595.2 | 2584.7 | 2581.7 |
| 22.5° | 2541.0 | 2491.2 | 2453.5 | 2444.4 | 2436.9 |
| 25°   | 2366.0 | 2304.2 | 2255.9 | 2245.4 | 2225.8 |
| 27.5° | 2162.5 | 2079.5 | 2022.2 | 2010.1 | 1999.6 |
| 30°   | 1895.5 | 1800.5 | 1734.2 | 1692.0 | 1705.5 |
| 32.5° | 1569.8 | 1479.3 | 1402.4 | 1334.6 | 1324.0 |
| 35°   | 1212.4 | 1112.9 | 1045.0 | 1014.9 | 995.3  |
| 37.5° | 904.8  | 821.9  | 776.6  | 748.0  | 749.5  |
| 40°   | 692.2  | 648.4  | 624.3  | 604.7  | 606.2  |
| 42.5° | 577.6  | 558.0  | 551.9  | 542.9  | 538.4  |
| 45°   | 523.3  | 517.2  | 518.7  | 509.7  | 506.7  |
| 47.5° | 493.1  | 488.6  | 490.1  | 484.1  | 482.6  |
| 50°   | 469.0  | 466.0  | 467.5  | 463.0  | 461.4  |
| 52.5° | 444.9  | 446.4  | 444.9  | 441.8  | 441.8  |
| 55°   | 423.7  | 422.2  | 425.3  | 420.7  | 420.7  |
| 57.5° | 407.2  | 405.6  | 405.6  | 404.1  | 404.1  |
| 60°   | 398.1  | 392.1  | 390.6  | 390.6  | 392.1  |
| 62.5° | 393.6  | 383.0  | 381.5  | 381.5  | 383.0  |
| 65°   | 395.1  | 378.5  | 372.5  | 371.0  | 369.5  |
| 67°   | 396.6  | 372.5  | 360.4  | 354.4  | 352.9  |
| 67.5° | 398.1  | 369.5  | 355.9  | 349.9  | 346.8  |
| 70°   | 389.1  | 348.3  | 328.7  | 318.2  | 315.2  |
| 72.5° | 366.4  | 322.7  | 298.6  | 285.0  | 282.0  |
| 75°   | 325.7  | 292.5  | 271.4  | 256.4  | 250.3  |
| 77.5° | 251.8  | 236.8  | 229.2  | 220.2  | 217.2  |
| 80°   | 196.0  | 188.5  | 185.5  | 179.5  | 177.9  |
| 82.5° | 162.9  | 155.3  | 150.8  | 143.3  | 138.7  |
| 85°   | 126.7  | 117.6  | 114.6  | 108.6  | 105.6  |
| 87.5° | 82.9   | 78.4   | 76.9   | 69.4   | 66.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)