

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: P159823

Luminaire Tested: **VST-F10-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159823
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
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-T4-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (70) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20737.3 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

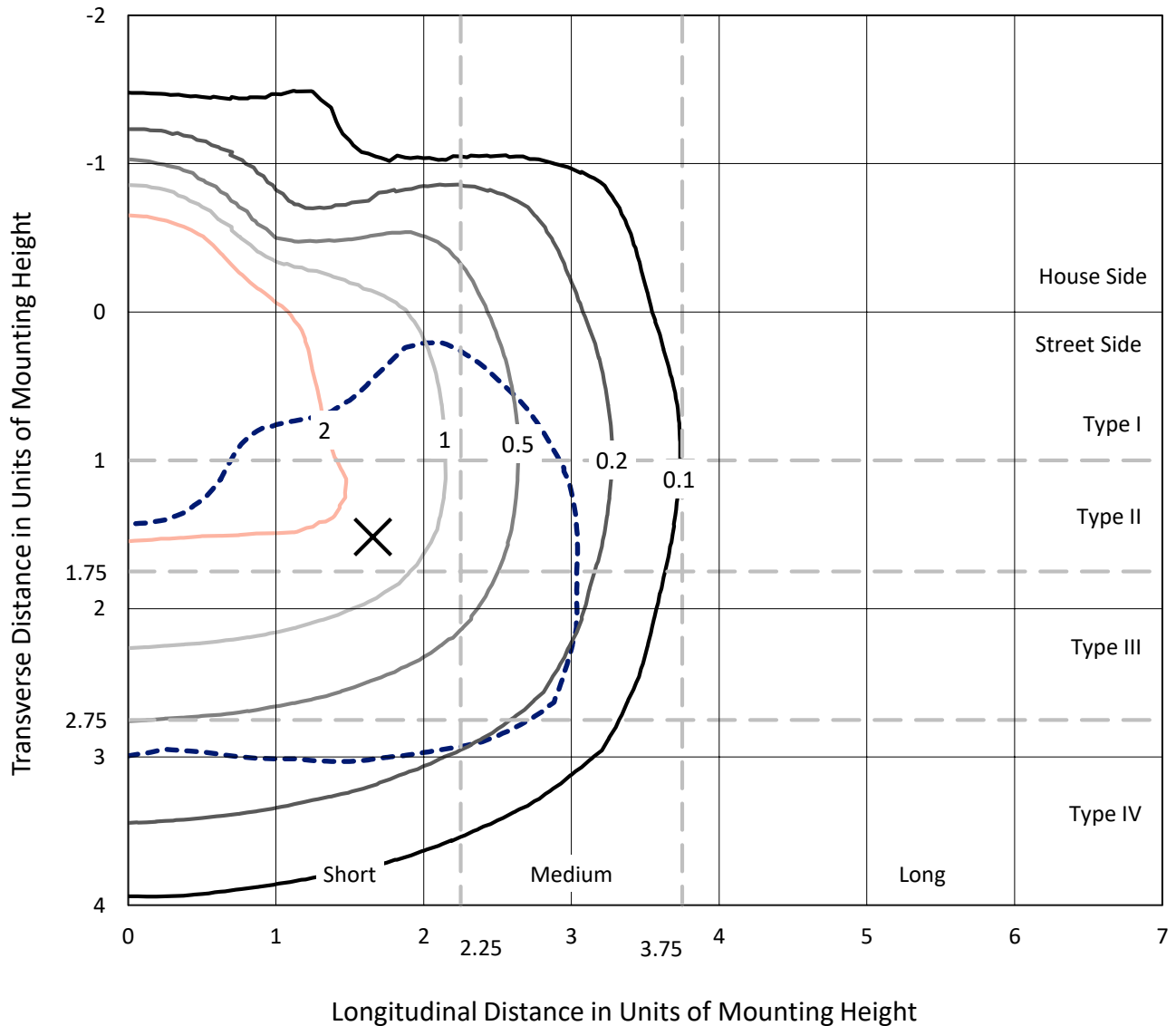
Input Watts (W): 258.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

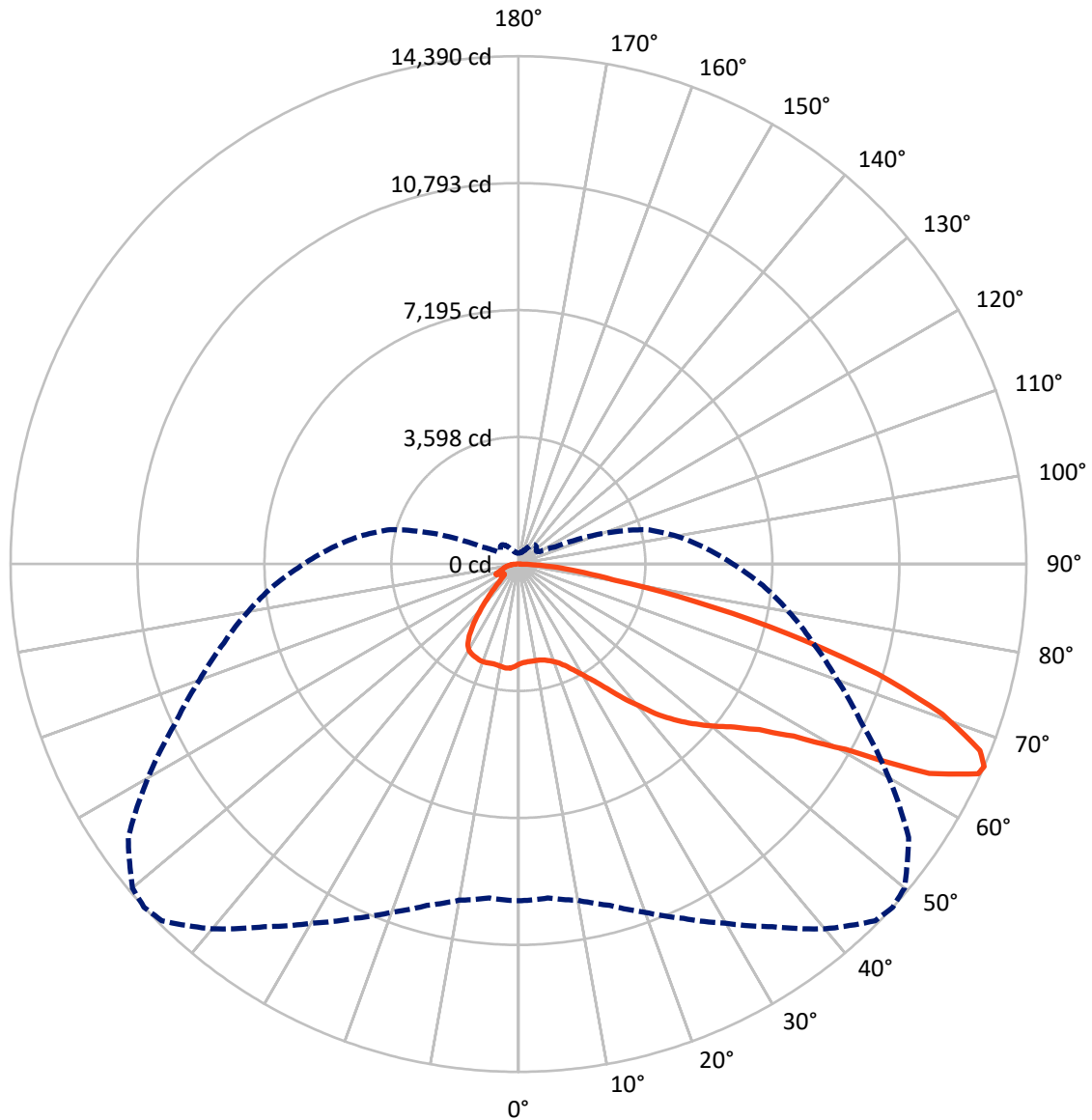


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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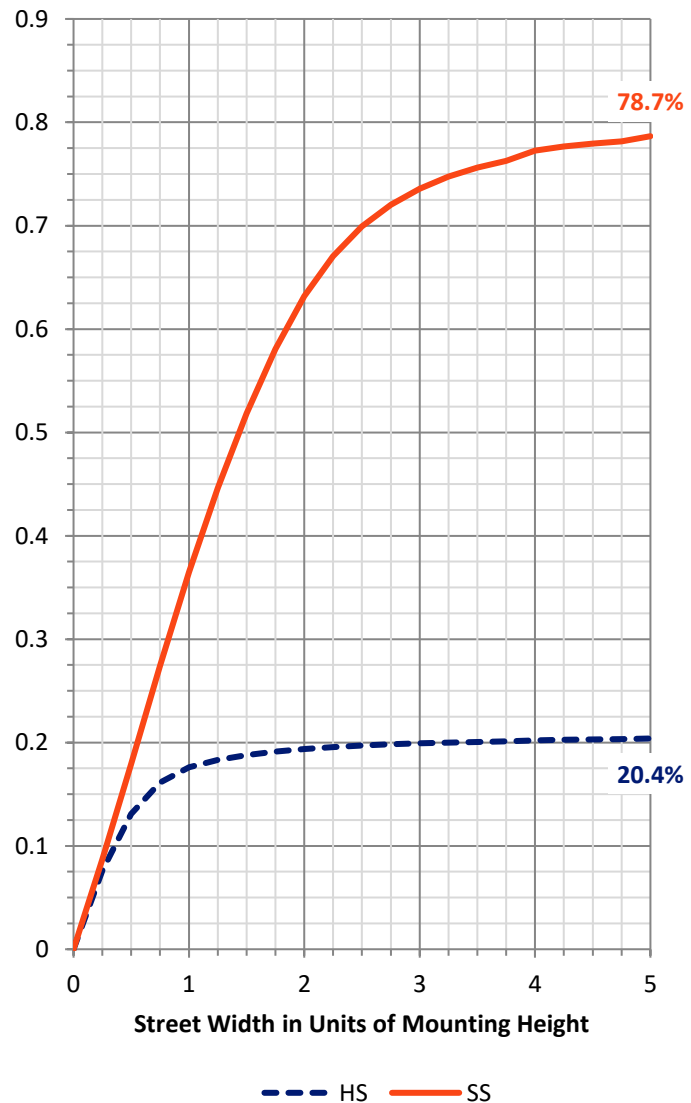
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4293.5 | 0.0 | 4293.5 |
| | % Fixture | 20.7 | 0.0 | 20.7 |
| Street Side | Lumens | 16443.8 | 0.0 | 16443.8 |
| | % Fixture | 79.3 | 0.0 | 79.3 |
| Total | Lumens | 20737.3 | 0.0 | 20737.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 273.5 | 1.3 |
| 10°-20° | 820.0 | 4.0 |
| 20°-30° | 1399.1 | 6.7 |
| 30°-40° | 2111.8 | 10.2 |
| 40°-50° | 2744.8 | 13.2 |
| 50°-60° | 3765.7 | 18.2 |
| 60°-70° | 5792.8 | 27.9 |
| 70°-80° | 3348.6 | 16.1 |
| 80°-90° | 481.0 | 2.3 |
| 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° | 20737.3 | 100.0 |
| 0°-180° | 20737.3 | 100.0 |



REPORT NUMBER: P159823

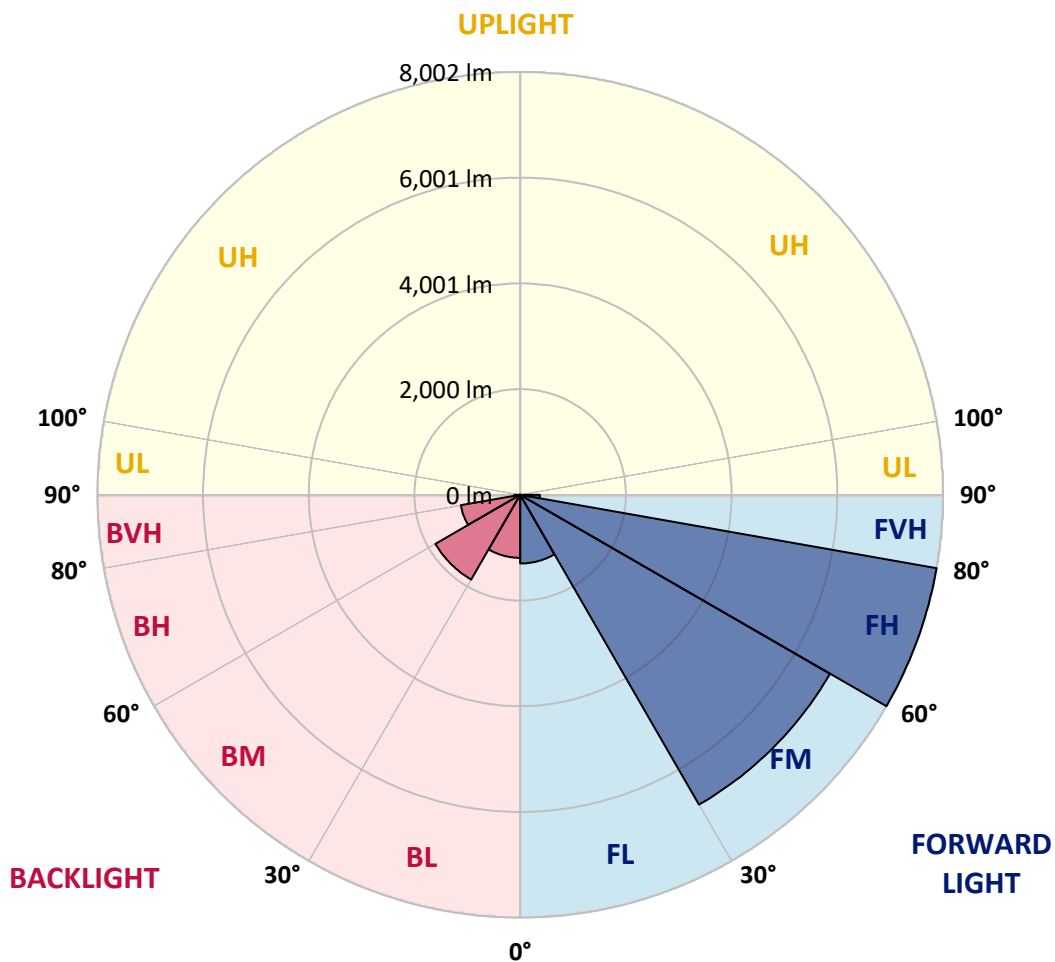
CATALOG NUMBER: VST-F10-LED-E-U-T4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1299.8 | 6.3 | | | |
| FM | (30°-60°) | 6769.8 | 32.6 | | | |
| FH | (60°-80°) | 8001.8 | 38.6 | | | G4/12000 |
| FVH | (80°-90°) | 372.3 | 1.8 | | | G3/500 |
| BL | (0°-30°) | 1192.8 | 5.8 | B3/2500 | | |
| BM | (30°-60°) | 1852.4 | 8.9 | B2/2500 | | |
| BH | (60°-80°) | 1139.5 | 5.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 108.8 | 0.5 | | | 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 IV Short





REPORT NUMBER: P159823

CATALOG NUMBER: VST-F10-LED-E-U-T4-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 47.5° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 |
| 2.5° | 2764.6 | 2766.0 | 2767.4 | 2767.4 | 2771.6 | 2771.6 | 2778.6 | 2782.8 | 2784.2 | 2792.5 | 2798.1 |
| 5° | 2713.1 | 2711.7 | 2713.1 | 2715.9 | 2722.8 | 2728.4 | 2742.4 | 2752.1 | 2760.5 | 2774.4 | 2781.4 |
| 7.5° | 2690.8 | 2693.6 | 2696.4 | 2697.8 | 2703.3 | 2717.3 | 2729.8 | 2739.6 | 2756.3 | 2773.0 | 2780.0 |
| 10° | 2720.1 | 2724.2 | 2720.1 | 2722.8 | 2722.8 | 2735.4 | 2741.0 | 2747.9 | 2760.5 | 2775.8 | 2780.0 |
| 12.5° | 2788.3 | 2796.7 | 2788.3 | 2781.4 | 2775.8 | 2786.9 | 2784.2 | 2778.6 | 2785.5 | 2789.7 | 2789.7 |
| 15° | 2901.2 | 2901.2 | 2895.6 | 2885.9 | 2871.9 | 2873.3 | 2860.8 | 2848.3 | 2842.7 | 2832.9 | 2826.0 |
| 17.5° | 3011.3 | 3008.5 | 2996.0 | 2983.4 | 2973.7 | 2969.5 | 2951.4 | 2934.7 | 2915.1 | 2899.8 | 2883.1 |
| 20° | 3118.6 | 3129.7 | 3114.4 | 3096.3 | 3081.0 | 3071.2 | 3057.3 | 3023.8 | 3000.1 | 2975.1 | 2958.3 |
| 22.5° | 3303.9 | 3294.2 | 3277.4 | 3251.0 | 3235.6 | 3218.9 | 3189.7 | 3153.4 | 3117.2 | 3086.5 | 3065.6 |
| 25° | 3494.8 | 3485.1 | 3461.4 | 3441.9 | 3419.6 | 3405.6 | 3373.6 | 3329.0 | 3294.2 | 3246.8 | 3218.9 |
| 27.5° | 3699.7 | 3691.3 | 3663.4 | 3648.1 | 3632.8 | 3616.1 | 3588.2 | 3542.2 | 3510.2 | 3455.8 | 3426.5 |
| 30° | 3931.0 | 3929.6 | 3892.0 | 3889.2 | 3866.9 | 3848.8 | 3829.3 | 3790.2 | 3758.2 | 3703.8 | 3669.0 |
| 32.5° | 4177.6 | 4172.1 | 4145.6 | 4137.2 | 4152.5 | 4140.0 | 4112.1 | 4071.7 | 4029.9 | 3997.9 | 3958.9 |
| 35° | 4528.8 | 4519.0 | 4503.7 | 4510.7 | 4520.4 | 4555.3 | 4512.1 | 4477.2 | 4427.1 | 4385.3 | 4330.9 |
| 37.5° | 4785.2 | 4771.2 | 4789.4 | 4828.4 | 4884.1 | 4910.6 | 4948.2 | 4949.6 | 4925.9 | 4870.2 | 4822.8 |
| 40° | 5020.7 | 5015.1 | 5056.9 | 5111.3 | 5214.4 | 5289.6 | 5360.7 | 5395.5 | 5403.9 | 5367.7 | 5296.6 |
| 42.5° | 5219.9 | 5236.7 | 5292.4 | 5376.0 | 5520.9 | 5635.2 | 5767.6 | 5849.8 | 5901.4 | 5881.8 | 5849.8 |
| 45° | 5456.8 | 5465.2 | 5533.5 | 5639.4 | 5777.3 | 5966.8 | 6141.0 | 6280.4 | 6370.9 | 6369.6 | 6333.3 |
| 47.5° | 5753.6 | 5755.0 | 5813.6 | 5937.6 | 6085.3 | 6277.6 | 6497.8 | 6683.1 | 6802.9 | 6808.5 | 6780.6 |
| 50° | 6106.2 | 6103.4 | 6167.5 | 6284.6 | 6442.0 | 6627.3 | 6861.5 | 7092.8 | 7260.0 | 7260.0 | 7219.6 |
| 52.5° | 6560.5 | 6554.9 | 6589.7 | 6692.8 | 6844.7 | 7039.8 | 7272.5 | 7540.1 | 7721.2 | 7760.2 | 7672.5 |
| 55° | 7166.6 | 7175.0 | 7183.3 | 7273.9 | 7403.5 | 7558.2 | 7825.7 | 8072.4 | 8314.8 | 8337.1 | 8285.6 |
| 57.5° | 7867.5 | 7839.7 | 7899.6 | 8047.3 | 8195.0 | 8388.7 | 8578.2 | 8869.4 | 9156.5 | 9205.3 | 9198.3 |
| 60° | 8962.8 | 8926.6 | 8987.9 | 9176.0 | 9339.0 | 9644.2 | 9968.9 | 10345.1 | 10685.1 | 10785.5 | 10664.2 |
| 62.5° | 9970.3 | 10014.9 | 10098.5 | 10317.3 | 10554.2 | 10961.0 | 11448.8 | 12093.9 | 12739.1 | 13090.3 | 13065.2 |
| 65° | 9879.7 | 9837.9 | 9998.2 | 10296.4 | 10725.5 | 11243.9 | 11850.1 | 12627.6 | 13557.1 | 14262.2 | 14324.9 |
| 66° | 9543.9 | 9500.7 | 9673.5 | 10014.9 | 10505.4 | 11082.3 | 11755.3 | 12546.8 | 13497.2 | 14294.2 | 14390.4 |
| 67.5° | 8989.3 | 8946.1 | 9141.2 | 9451.9 | 9957.7 | 10683.7 | 11411.1 | 12276.5 | 13264.5 | 14028.1 | 14106.1 |
| 70° | 7919.1 | 7860.6 | 8012.5 | 8363.6 | 8773.3 | 9475.6 | 10168.2 | 11085.1 | 12099.5 | 12709.8 | 12739.1 |
| 72.5° | 6708.2 | 6571.6 | 6733.3 | 7003.6 | 7296.2 | 7877.3 | 8480.7 | 9107.7 | 9915.9 | 10480.3 | 10641.9 |
| 75° | 4867.4 | 4938.5 | 4985.8 | 5164.2 | 5357.9 | 5838.6 | 6192.6 | 6717.9 | 7343.6 | 7751.9 | 7881.5 |
| 77.5° | 2582.1 | 2689.4 | 2756.3 | 2934.7 | 3255.1 | 3621.6 | 4004.8 | 4329.5 | 4740.6 | 4969.1 | 5128.0 |
| 80° | 1449.2 | 1524.5 | 1633.1 | 1773.9 | 1930.0 | 2211.4 | 2438.6 | 2605.8 | 2664.3 | 2704.7 | 2741.0 |
| 82.5° | 797.1 | 988.0 | 1149.6 | 1247.2 | 1339.1 | 1452.0 | 1587.2 | 1726.5 | 1771.1 | 1704.2 | 1669.4 |
| 85° | 124.0 | 182.5 | 556.0 | 678.6 | 738.5 | 824.9 | 922.5 | 1025.6 | 1027.0 | 883.5 | 964.3 |
| 87.5° | 34.8 | 39.0 | 79.4 | 119.8 | 117.1 | 94.8 | 117.1 | 213.2 | 125.4 | 62.7 | 72.5 |
| 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: P159823

CATALOG NUMBER: VST-F10-LED-E-U-T4-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 |
| 2.5° | 2800.9 | 2803.7 | 2810.6 | 2817.6 | 2824.6 | 2831.5 | 2835.7 | 2842.7 | 2848.3 | 2856.6 | 2866.4 |
| 5° | 2789.7 | 2796.7 | 2809.2 | 2824.6 | 2838.5 | 2851.0 | 2860.8 | 2874.7 | 2887.3 | 2898.4 | 2915.1 |
| 7.5° | 2789.7 | 2803.7 | 2824.6 | 2841.3 | 2853.8 | 2869.2 | 2884.5 | 2898.4 | 2912.4 | 2923.5 | 2934.7 |
| 10° | 2791.1 | 2805.1 | 2826.0 | 2845.5 | 2859.4 | 2876.1 | 2888.7 | 2901.2 | 2916.5 | 2923.5 | 2937.4 |
| 12.5° | 2796.7 | 2802.3 | 2817.6 | 2837.1 | 2853.8 | 2870.6 | 2883.1 | 2895.6 | 2912.4 | 2915.1 | 2924.9 |
| 15° | 2824.6 | 2816.2 | 2820.4 | 2834.3 | 2852.4 | 2866.4 | 2880.3 | 2890.1 | 2901.2 | 2898.4 | 2906.8 |
| 17.5° | 2876.1 | 2855.2 | 2846.9 | 2848.3 | 2856.6 | 2866.4 | 2871.9 | 2873.3 | 2874.7 | 2862.2 | 2863.6 |
| 20° | 2945.8 | 2916.5 | 2897.0 | 2887.3 | 2876.1 | 2866.4 | 2851.0 | 2832.9 | 2816.2 | 2791.1 | 2788.3 |
| 22.5° | 3050.3 | 3007.1 | 2986.2 | 2959.7 | 2926.3 | 2884.5 | 2846.9 | 2802.3 | 2766.0 | 2728.4 | 2714.5 |
| 25° | 3202.2 | 3157.6 | 3135.3 | 3093.5 | 3033.6 | 2973.7 | 2919.3 | 2859.4 | 2806.5 | 2761.9 | 2741.0 |
| 27.5° | 3405.6 | 3361.1 | 3337.4 | 3294.2 | 3220.3 | 3160.4 | 3085.1 | 3021.0 | 2956.9 | 2891.5 | 2865.0 |
| 30° | 3652.3 | 3613.3 | 3586.8 | 3552.0 | 3487.9 | 3422.4 | 3334.6 | 3235.6 | 3133.9 | 3029.4 | 2977.8 |
| 32.5° | 3943.5 | 3900.3 | 3880.8 | 3840.4 | 3773.5 | 3705.2 | 3607.7 | 3480.9 | 3310.9 | 3146.5 | 3043.3 |
| 35° | 4307.2 | 4258.4 | 4236.2 | 4183.2 | 4105.2 | 4004.8 | 3900.3 | 3730.3 | 3500.4 | 3271.9 | 3103.3 |
| 37.5° | 4793.5 | 4684.8 | 4611.0 | 4489.8 | 4364.4 | 4223.6 | 4074.5 | 3900.3 | 3628.6 | 3345.7 | 3111.6 |
| 40° | 5224.1 | 5114.0 | 4971.9 | 4797.7 | 4602.6 | 4408.9 | 4238.9 | 4041.1 | 3745.7 | 3398.7 | 3085.1 |
| 42.5° | 5759.2 | 5564.1 | 5337.0 | 5101.5 | 4842.3 | 4604.0 | 4402.0 | 4169.3 | 3825.1 | 3412.6 | 3011.3 |
| 45° | 6248.3 | 6015.6 | 5711.8 | 5398.3 | 5076.4 | 4776.8 | 4549.7 | 4290.5 | 3893.4 | 3412.6 | 2922.1 |
| 47.5° | 6694.2 | 6415.5 | 6051.8 | 5661.7 | 5286.8 | 4959.4 | 4701.6 | 4414.5 | 3989.5 | 3455.8 | 2895.6 |
| 50° | 7106.7 | 6786.2 | 6372.3 | 5919.5 | 5498.6 | 5148.9 | 4871.6 | 4573.4 | 4135.8 | 3567.3 | 2959.7 |
| 52.5° | 7541.5 | 7201.5 | 6697.0 | 6216.3 | 5752.2 | 5377.4 | 5082.0 | 4769.9 | 4325.3 | 3742.9 | 3072.6 |
| 55° | 8111.4 | 7712.9 | 7140.1 | 6610.6 | 6100.6 | 5686.8 | 5350.9 | 5005.3 | 4533.0 | 3940.7 | 3210.6 |
| 57.5° | 9010.2 | 8431.9 | 7859.2 | 7170.8 | 6690.1 | 6145.2 | 5777.3 | 5380.2 | 4870.2 | 4198.5 | 3418.2 |
| 60° | 10583.4 | 9872.7 | 9184.4 | 8392.9 | 7799.3 | 7229.3 | 6673.3 | 6155.0 | 5540.4 | 4781.0 | 3873.8 |
| 62.5° | 12829.7 | 12107.9 | 11026.5 | 10058.1 | 9162.1 | 8406.8 | 7682.2 | 7023.1 | 6234.4 | 5403.9 | 4435.4 |
| 65° | 14171.6 | 13345.3 | 12056.3 | 10754.8 | 9666.5 | 8730.1 | 7901.0 | 7094.2 | 6242.8 | 5433.1 | 4605.4 |
| 66° | 14278.9 | 13497.2 | 12120.4 | 10745.1 | 9615.0 | 8643.7 | 7781.1 | 6946.5 | 6074.1 | 5299.4 | 4549.7 |
| 67.5° | 14079.6 | 13406.6 | 11989.4 | 10555.5 | 9400.4 | 8351.1 | 7464.8 | 6589.7 | 5713.2 | 4995.6 | 4364.4 |
| 70° | 12673.6 | 12187.3 | 10972.2 | 9628.9 | 8476.5 | 7551.2 | 6616.2 | 5774.5 | 4944.0 | 4340.7 | 3872.5 |
| 72.5° | 10389.7 | 9773.8 | 8923.8 | 8020.8 | 7113.7 | 6292.9 | 5442.9 | 4726.7 | 4029.9 | 3591.0 | 3259.3 |
| 75° | 7632.0 | 7077.4 | 6141.0 | 5578.1 | 4978.9 | 4463.3 | 3890.6 | 3212.0 | 2717.3 | 2497.1 | 2416.3 |
| 77.5° | 4838.1 | 4236.2 | 3446.1 | 2824.6 | 2428.8 | 2087.4 | 1645.7 | 1308.5 | 1047.9 | 1091.1 | 1208.1 |
| 80° | 2444.1 | 2105.5 | 1576.0 | 1244.4 | 1075.8 | 894.6 | 707.9 | 536.5 | 391.6 | 447.3 | 505.8 |
| 82.5° | 1569.0 | 1309.9 | 1043.7 | 822.1 | 693.9 | 611.7 | 489.1 | 355.3 | 264.8 | 298.2 | 365.1 |
| 85° | 944.8 | 798.5 | 636.8 | 521.2 | 452.9 | 377.6 | 277.3 | 196.5 | 195.1 | 209.0 | 257.8 |
| 87.5° | 143.5 | 204.8 | 118.4 | 126.8 | 133.8 | 143.5 | 126.8 | 107.3 | 93.4 | 121.2 | 153.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: VST-F10-LED-E-U-T4-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 | 2837.1 |
| 2.5° | 2876.1 | 2878.9 | 2884.5 | 2891.5 | 2890.1 | 2899.8 | 2905.4 | 2899.8 | 2912.4 | 2912.4 | 2919.3 |
| 5° | 2929.1 | 2933.3 | 2943.0 | 2950.0 | 2952.8 | 2961.1 | 2963.9 | 2962.5 | 2965.3 | 2966.7 | 2969.5 |
| 7.5° | 2944.4 | 2955.6 | 2959.7 | 2963.9 | 2965.3 | 2968.1 | 2968.1 | 2965.3 | 2965.3 | 2963.9 | 2966.7 |
| 10° | 2940.2 | 2944.4 | 2947.2 | 2945.8 | 2945.8 | 2943.0 | 2941.6 | 2940.2 | 2940.2 | 2937.4 | 2941.6 |
| 12.5° | 2926.3 | 2926.3 | 2926.3 | 2923.5 | 2923.5 | 2922.1 | 2922.1 | 2922.1 | 2924.9 | 2926.3 | 2933.3 |
| 15° | 2898.4 | 2898.4 | 2901.2 | 2899.8 | 2904.0 | 2911.0 | 2919.3 | 2924.9 | 2931.9 | 2933.3 | 2937.4 |
| 17.5° | 2855.2 | 2856.6 | 2865.0 | 2883.1 | 2901.2 | 2922.1 | 2937.4 | 2941.6 | 2936.0 | 2922.1 | 2912.4 |
| 20° | 2780.0 | 2798.1 | 2831.5 | 2874.7 | 2915.1 | 2941.6 | 2948.6 | 2931.9 | 2905.4 | 2869.2 | 2849.6 |
| 22.5° | 2713.1 | 2749.3 | 2809.2 | 2880.3 | 2930.5 | 2948.6 | 2927.7 | 2888.7 | 2841.3 | 2799.5 | 2770.2 |
| 25° | 2739.6 | 2781.4 | 2844.1 | 2905.4 | 2937.4 | 2927.7 | 2885.9 | 2830.1 | 2780.0 | 2731.2 | 2683.8 |
| 27.5° | 2851.0 | 2892.8 | 2937.4 | 2955.6 | 2944.4 | 2908.2 | 2849.6 | 2789.7 | 2722.8 | 2653.2 | 2594.6 |
| 30° | 2956.9 | 2980.6 | 2983.4 | 2965.3 | 2924.9 | 2866.4 | 2798.1 | 2728.4 | 2643.4 | 2559.8 | 2486.0 |
| 32.5° | 2990.4 | 2962.5 | 2912.4 | 2860.8 | 2805.1 | 2745.1 | 2665.7 | 2573.7 | 2483.2 | 2388.4 | 2306.2 |
| 35° | 2980.6 | 2867.8 | 2743.7 | 2633.7 | 2566.8 | 2498.5 | 2426.0 | 2303.4 | 2201.7 | 2120.9 | 2067.9 |
| 37.5° | 2892.8 | 2686.6 | 2495.7 | 2335.5 | 2230.9 | 2150.1 | 2042.8 | 1941.1 | 1853.3 | 1817.1 | 1773.9 |
| 40° | 2770.2 | 2455.3 | 2190.5 | 1966.2 | 1857.5 | 1754.4 | 1634.5 | 1556.5 | 1531.4 | 1498.0 | 1499.4 |
| 42.5° | 2594.6 | 2185.0 | 1843.6 | 1585.8 | 1467.3 | 1354.5 | 1269.5 | 1223.5 | 1224.9 | 1197.0 | 1202.6 |
| 45° | 2409.3 | 1913.2 | 1484.0 | 1227.6 | 1110.6 | 1014.4 | 967.1 | 953.1 | 954.5 | 955.9 | 947.6 |
| 47.5° | 2296.4 | 1701.4 | 1190.0 | 930.8 | 827.7 | 773.4 | 748.3 | 741.3 | 742.7 | 744.1 | 734.4 |
| 50° | 2279.7 | 1591.3 | 993.5 | 712.1 | 645.2 | 614.5 | 602.0 | 595.0 | 595.0 | 589.4 | 581.1 |
| 52.5° | 2327.1 | 1563.5 | 897.4 | 617.3 | 553.2 | 525.3 | 515.6 | 510.0 | 501.6 | 490.5 | 475.2 |
| 55° | 2402.3 | 1588.6 | 868.1 | 585.3 | 522.6 | 494.7 | 482.1 | 479.4 | 465.4 | 444.5 | 419.4 |
| 57.5° | 2541.7 | 1679.1 | 887.6 | 593.6 | 528.1 | 503.0 | 494.7 | 491.9 | 472.4 | 440.3 | 408.3 |
| 60° | 2941.6 | 1942.5 | 985.2 | 641.0 | 568.5 | 547.6 | 547.6 | 543.5 | 517.0 | 471.0 | 425.0 |
| 62.5° | 3493.4 | 2328.5 | 1117.6 | 706.5 | 624.3 | 621.5 | 645.2 | 646.6 | 599.2 | 525.3 | 452.9 |
| 65° | 3759.6 | 2509.6 | 1163.5 | 720.4 | 639.6 | 671.7 | 719.0 | 719.0 | 652.1 | 550.4 | 457.1 |
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| 67.5° | 3664.8 | 2427.4 | 1103.6 | 673.0 | 585.3 | 624.3 | 667.5 | 666.1 | 603.4 | 515.6 | 430.6 |
| 70° | 3287.2 | 2147.3 | 972.6 | 622.9 | 540.7 | 542.1 | 557.4 | 547.6 | 505.8 | 445.9 | 391.6 |
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| 75° | 2173.8 | 1394.9 | 734.4 | 561.6 | 475.2 | 429.2 | 412.5 | 405.5 | 387.4 | 366.5 | 340.0 |
| 77.5° | 1332.2 | 955.9 | 622.9 | 514.2 | 440.3 | 398.5 | 380.4 | 366.5 | 348.4 | 328.9 | 310.7 |
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| 82.5° | 401.3 | 413.9 | 380.4 | 338.6 | 292.6 | 257.8 | 236.9 | 232.7 | 234.1 | 234.1 | 231.3 |
| 85° | 301.0 | 295.4 | 266.2 | 242.5 | 221.6 | 199.3 | 182.5 | 181.2 | 186.7 | 186.7 | 182.5 |
| 87.5° | 174.2 | 175.6 | 150.5 | 140.7 | 146.3 | 125.4 | 114.3 | 115.7 | 129.6 | 128.2 | 125.4 |
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