

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: P158944

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158944
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
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-SLL-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (70) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20261.9 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-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

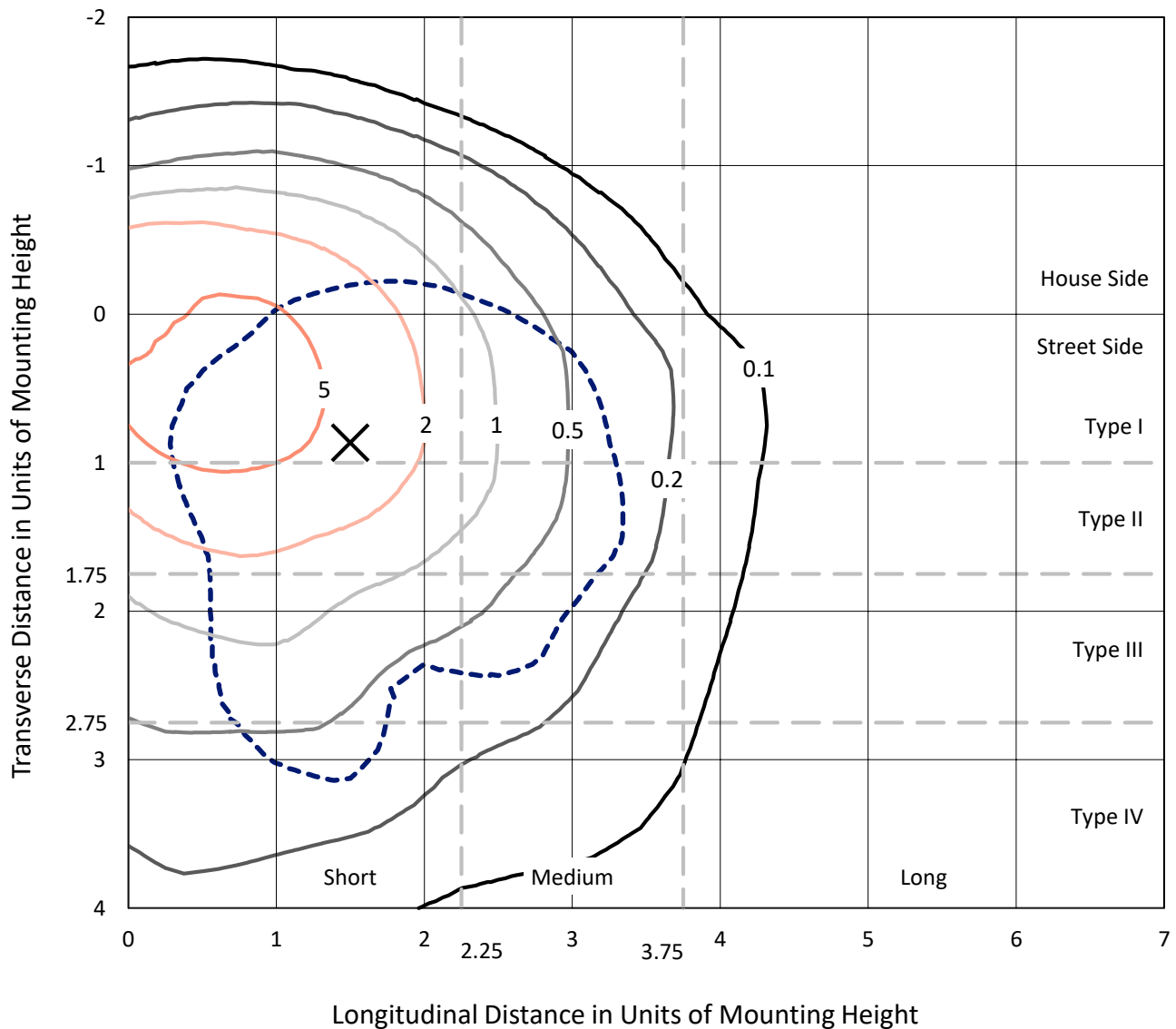


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

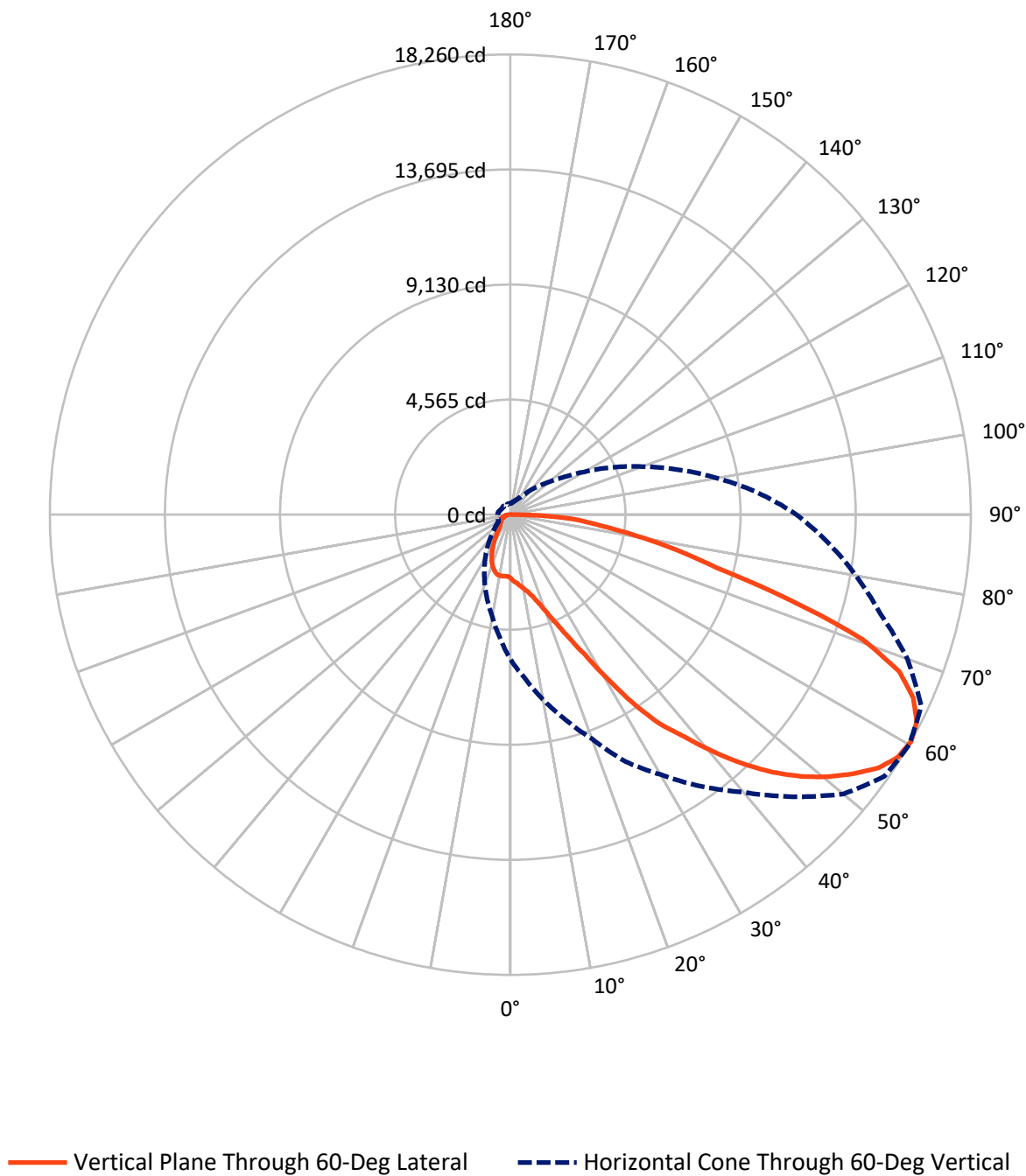


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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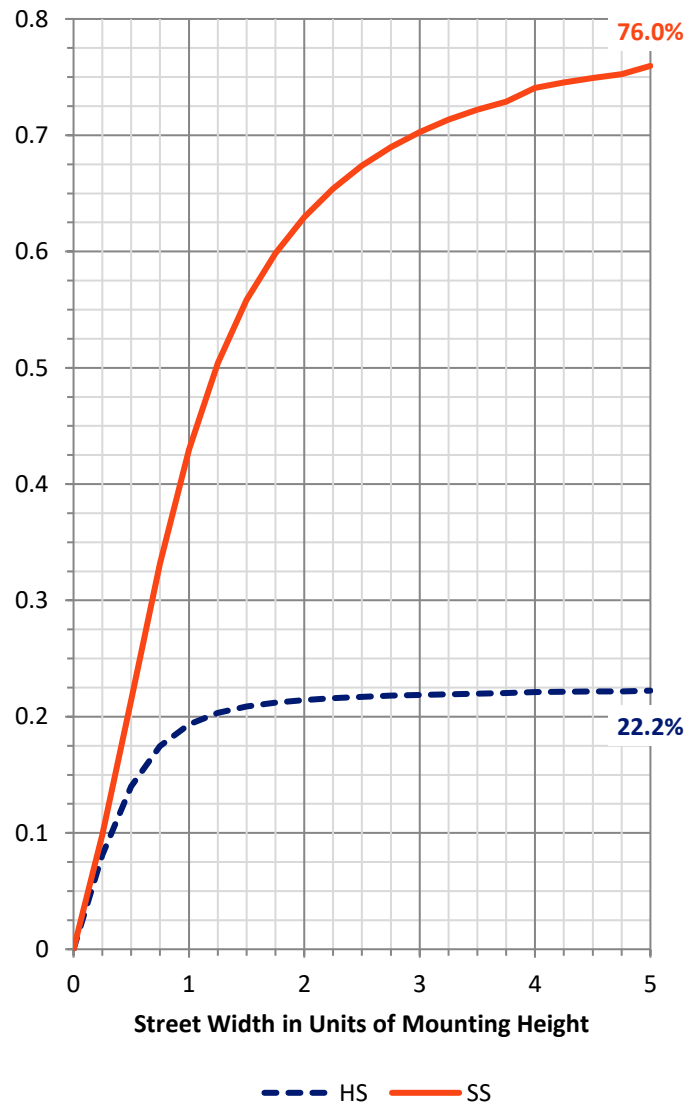
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4562.4	0.0	4562.4
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	15699.6	0.0	15699.6
	% Fixture	77.5	0.0	77.5
Total	Lumens	20261.9	0.0	20261.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	1.2
10°-20°	802.7	4.0
20°-30°	1523.2	7.5
30°-40°	2398.7	11.8
40°-50°	3348.0	16.5
50°-60°	4140.7	20.4
60°-70°	4292.1	21.2
70°-80°	2700.7	13.3
80°-90°	807.3	4.0
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°	20261.9	100.0
0°-180°	20261.9	100.0

Coefficient of Utilization



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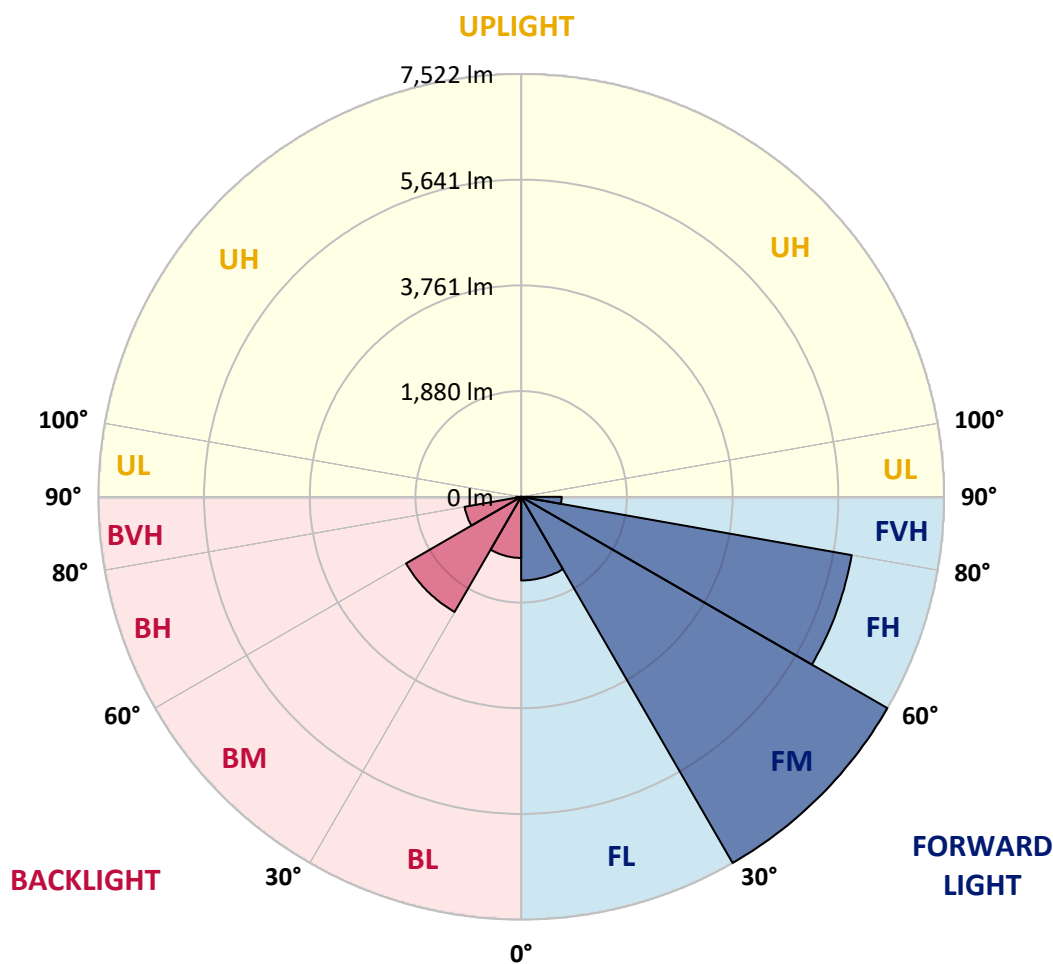
CATALOG NUMBER: VST-F10-LED-E-U-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1487.5	7.3			
FM	(30°-60°)	7521.5	37.1			
FH	(60°-80°)	5971.0	29.5			G3/7500
FVH	(80°-90°)	719.5	3.6			G4/750
BL	(0°-30°)	1086.9	5.4	B3/2500		
BM	(30°-60°)	2365.9	11.7	B2/2500		
BH	(60°-80°)	1021.8	5.0	B3/2500		G3/2500
BVH	(80°-90°)	87.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8
2.5°	2669.1	2666.1	2666.1	2666.1	2664.6	2661.6	2666.1	2664.6	2657.1	2652.5	2657.1
5°	2703.8	2705.3	2709.9	2711.4	2711.4	2715.9	2727.9	2729.5	2727.9	2731.0	2738.5
7.5°	2737.0	2744.5	2749.1	2756.6	2765.6	2773.2	2794.3	2815.4	2829.0	2839.5	2842.6
10°	2791.3	2803.3	2816.9	2836.5	2857.6	2895.3	2913.4	2934.5	2948.1	2969.2	2973.8
12.5°	2930.0	2945.1	2954.1	2984.3	3011.4	3047.6	3073.3	3079.3	3111.0	3129.1	3150.2
15°	3163.8	3186.4	3218.0	3236.1	3266.3	3298.0	3320.6	3350.7	3355.3	3379.4	3396.0
17.5°	3450.3	3481.9	3546.8	3590.5	3629.7	3661.4	3706.6	3741.3	3748.9	3776.0	3741.3
20°	3851.4	3928.3	3938.9	4026.3	4061.0	4124.3	4214.8	4231.4	4275.1	4231.4	4205.8
22.5°	4394.3	4514.9	4548.1	4632.5	4674.8	4771.3	4798.4	4887.4	4917.5	4884.4	4815.0
25°	5018.6	5205.6	5302.1	5431.8	5452.9	5650.4	5671.5	5775.6	5719.8	5639.9	5641.4
27.5°	5478.5	5796.7	6045.5	6267.2	6422.5	6645.7	6819.1	6867.4	6814.6	6710.5	6674.4
30°	5740.9	6101.3	6458.7	6764.8	7126.7	7467.6	7821.9	7998.4	8028.5	8082.8	7864.2
32.5°	5909.8	6372.8	6798.0	7176.5	7547.5	7986.3	8461.3	8915.2	9296.7	9584.8	9449.0
35°	6051.6	6623.1	7167.5	7625.9	8064.7	8542.7	9022.3	9557.6	10189.5	10558.9	10635.8
37.5°	6108.9	6807.1	7473.6	8061.7	8678.5	9216.8	9693.3	10169.9	10833.4	11492.4	11695.9
40°	6098.3	6897.5	7656.0	8395.0	9150.5	9823.0	10381.0	10945.0	11721.6	12492.2	12823.9
42.5°	6027.4	6911.1	7772.2	8616.6	9477.7	10371.9	11085.2	11735.2	12480.1	13467.8	13936.8
45°	5938.5	6864.4	7796.3	8729.7	9720.5	10755.0	11656.7	12460.5	13333.6	14309.3	14876.3
47.5°	5817.8	6790.5	7766.1	8768.9	9829.1	11000.8	12060.9	13027.5	13988.1	15111.5	15830.8
50°	5686.6	6684.9	7704.3	8740.3	9856.2	11135.0	12291.6	13392.4	14514.4	15726.8	16636.1
52.5°	5594.6	6571.8	7648.5	8681.5	9829.1	11175.7	12376.0	13588.5	14837.1	16090.2	17176.0
55°	5481.5	6421.0	7499.2	8544.3	9729.5	11153.1	12367.0	13656.3	14926.1	16230.5	17470.0
57.5°	5489.1	6351.6	7372.5	8379.9	9526.0	10943.5	12196.6	13588.5	14785.8	16140.0	17480.6
60°	5727.3	6500.9	7438.9	8413.1	9465.6	10810.8	11907.1	13151.2	14374.1	15827.8	17236.3
62.5°	6218.9	6927.7	7779.7	8744.8	9804.9	11076.2	11775.9	12424.3	13510.1	15253.3	16820.1
65°	6805.5	7444.9	8183.8	9102.2	10290.5	11507.4	11702.0	11833.2	12382.1	14135.9	16038.9
67.5°	7392.2	7963.7	8544.3	9305.8	10566.5	11631.1	11400.4	11088.2	11383.8	12837.5	14503.8
70°	7603.3	8361.8	8743.3	9266.6	10356.9	11343.1	10913.3	10127.6	10230.2	11551.2	12769.6
72.5°	7286.6	8367.8	8494.5	8689.0	9423.4	10350.8	9896.9	8886.6	8865.5	9874.3	10859.0
75°	6111.9	7633.4	7631.9	7559.5	7725.4	8253.2	8018.0	7408.7	7666.6	8461.3	8785.5
77.5°	4356.6	5956.5	6031.9	5544.9	5532.8	5771.1	5912.8	6621.6	7556.5	8002.9	7900.3
80°	2737.0	4018.8	4343.0	3741.3	3613.1	3950.9	4827.1	5858.5	7009.1	7410.2	7064.9
82.5°	1648.2	2589.2	3279.9	2939.1	2908.9	3524.2	4492.3	4893.4	5238.7	5665.5	5087.9
85°	1118.9	1725.1	2243.9	2311.7	2575.6	3212.0	3632.7	3454.8	3463.8	3352.3	3053.7
87.5°	214.1	470.5	769.1	938.0	1040.5	1397.9	1520.1	1376.8	1453.7	1063.1	1162.7
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8
2.5°	2649.5	2649.5	2649.5	2642.0	2643.5	2632.9	2628.4	2628.4	2623.9	2623.9	2622.4
5°	2732.5	2723.4	2727.9	2726.4	2726.4	2711.4	2703.8	2703.8	2684.2	2685.7	2679.7
7.5°	2856.1	2854.6	2859.1	2850.1	2838.0	2826.0	2813.9	2807.9	2780.7	2764.1	2753.6
10°	2996.4	2994.9	2999.4	2997.9	2976.8	2954.1	2921.0	2896.8	2863.7	2838.0	2812.4
12.5°	3150.2	3148.7	3145.7	3132.1	3109.5	3073.3	3031.1	2990.3	2940.6	2907.4	2869.7
15°	3390.0	3385.4	3367.3	3347.7	3323.6	3267.8	3193.9	3135.1	3068.8	3011.4	2949.6
17.5°	3744.3	3706.6	3703.6	3659.9	3595.0	3521.1	3451.8	3353.8	3258.8	3172.8	3088.4
20°	4232.9	4145.5	4121.3	4071.6	3985.6	3908.7	3757.9	3626.7	3497.0	3379.4	3272.3
22.5°	4765.2	4701.9	4643.1	4561.7	4444.0	4332.4	4140.9	3976.6	3810.7	3659.9	3540.8
25°	5508.7	5398.6	5293.0	5163.3	5000.5	4867.8	4649.1	4483.2	4266.1	4128.9	3957.0
27.5°	6469.3	6280.8	6102.8	5991.2	5704.7	5511.7	5232.7	5018.6	4756.2	4570.7	4367.1
30°	7719.4	7500.7	7236.8	6850.8	6510.0	6127.0	5781.6	5507.2	5228.2	4968.8	4733.6
32.5°	9269.6	8883.6	8465.8	7853.6	7294.1	6748.2	6288.3	5950.5	5665.5	5342.8	5011.0
35°	10580.0	10181.9	9589.3	8811.2	8120.5	7496.2	6945.8	6484.3	6111.9	5703.2	5264.4
37.5°	11614.5	11160.6	10604.2	9777.8	9047.9	8337.7	7760.1	7172.0	6683.4	6120.9	5566.0
40°	12799.8	12344.4	11732.1	10875.6	10011.5	9240.9	8563.9	7956.1	7356.0	6669.8	5956.5
42.5°	13832.8	13504.0	12884.2	11999.1	11041.5	10183.4	9443.0	8747.8	7963.7	7196.1	6351.6
45°	14909.5	14574.7	13986.6	13060.7	12042.8	11086.7	10201.5	9453.6	8527.7	7613.8	6647.2
47.5°	15861.0	15517.2	14923.0	14003.2	12921.9	11914.6	10940.4	10035.7	8960.5	7910.9	6840.2
50°	16768.8	16348.1	15803.7	14886.8	13731.7	12655.0	11597.9	10436.8	9296.7	8119.0	6971.4
52.5°	17602.7	17067.4	16551.7	15607.7	14359.1	13234.1	12054.8	10777.6	9503.3	8283.4	7060.4
55°	18076.2	17730.9	17114.1	16186.7	14805.4	13632.2	12344.4	11017.4	9708.4	8399.5	7098.1
57.5°	18222.5	18138.1	17620.8	16521.5	15067.8	13850.9	12540.4	11207.4	9845.6	8432.7	7045.3
60°	18106.4	18260.2	17976.7	16756.8	15186.9	13915.7	12636.9	11343.1	9869.8	8327.1	6885.5
62.5°	17733.9	18083.8	18047.6	16835.2	15125.1	13834.3	12626.4	11273.7	9643.6	7998.4	6526.6
65°	17121.7	17562.0	17717.3	16544.1	14776.8	13537.2	12358.0	10837.9	9014.7	7356.0	5924.9
67.5°	15969.6	16636.1	16786.9	15591.1	13865.9	12715.3	11584.4	9933.1	7850.6	6362.2	4985.4
70°	13660.9	14826.5	15030.1	13775.5	12259.9	11249.6	10290.5	8499.0	6537.1	5103.0	3825.8
72.5°	10905.8	11638.6	12054.8	11190.8	10062.8	9329.9	8603.1	6520.5	4932.6	3765.4	2632.9
75°	8526.2	8482.4	8854.9	8280.4	7616.8	7274.5	6728.6	4549.6	3304.0	2494.2	1666.3
77.5°	7289.6	6728.6	6304.9	5900.8	5507.2	5398.6	4875.3	2823.0	2041.8	1494.4	996.8
80°	6059.1	5035.2	4261.6	3693.1	3552.8	3767.0	3190.9	1664.8	1209.4	858.0	625.8
82.5°	4329.4	3622.2	2948.1	2587.7	2347.9	2688.7	1882.0	924.4	656.0	514.2	414.7
85°	2806.4	2682.7	2654.1	2536.4	2245.4	2120.2	1429.6	796.2	491.6	319.7	257.9
87.5°	1079.7	1384.3	1597.0	1711.6	1850.3	1648.2	744.9	274.5	269.9	165.9	125.2
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8
2.5°	2611.8	2605.8	2604.3	2599.8	2596.8	2596.8	2589.2	2452.0	2450.5	2450.5	2449.0
5°	2667.6	2660.1	2652.5	2651.0	2645.0	2645.0	2637.5	2500.2	2500.2	2500.2	2497.2
7.5°	2743.0	2727.9	2718.9	2714.4	2705.3	2709.9	2715.9	2577.1	2578.7	2577.1	2580.2
10°	2797.3	2788.3	2777.7	2774.7	2768.7	2773.2	2782.2	2645.0	2649.5	2651.0	2654.1
12.5°	2850.1	2835.0	2821.4	2816.9	2813.9	2826.0	2836.5	2703.8	2708.3	2712.9	2712.9
15°	2914.9	2889.3	2871.2	2860.7	2854.6	2866.7	2881.8	2750.6	2752.1	2756.6	2755.1
17.5°	3025.0	2987.3	2945.1	2937.6	2918.0	2922.5	2925.5	2779.2	2773.2	2762.6	2744.5
20°	3195.4	3138.1	3080.8	3056.7	3017.5	3000.9	2967.7	2780.7	2743.0	2711.4	2684.2
22.5°	3439.7	3355.3	3293.4	3252.7	3172.8	3117.0	3026.5	2773.2	2702.3	2648.0	2605.8
25°	3834.8	3733.8	3638.8	3536.2	3411.1	3299.5	3166.8	2839.5	2729.5	2636.0	2554.5
27.5°	4219.3	4059.5	3913.2	3759.4	3583.0	3415.6	3228.6	2860.7	2735.5	2614.8	2482.1
30°	4507.4	4275.1	4053.5	3828.8	3598.1	3380.9	3169.8	2788.3	2639.0	2503.3	2363.0
32.5°	4682.3	4380.7	4092.7	3813.7	3542.3	3298.0	3061.2	2663.1	2498.7	2338.9	2189.6
35°	4848.2	4474.2	4116.8	3788.1	3477.4	3206.0	2951.1	2516.8	2320.8	2150.4	1961.9
37.5°	5053.3	4572.2	4131.9	3741.3	3382.4	3071.8	2791.3	2332.9	2136.8	1927.2	1749.3
40°	5299.1	4673.3	4116.8	3647.8	3234.6	2895.3	2598.3	2139.8	1921.2	1717.6	1542.7
42.5°	5532.8	4762.2	4077.6	3522.7	3073.3	2711.4	2421.8	1967.9	1749.3	1541.2	1367.7
45°	5706.2	4837.6	4058.0	3435.2	2949.6	2586.2	2266.5	1829.2	1598.5	1388.9	1212.4
47.5°	5826.9	4882.9	4048.9	3386.9	2863.7	2456.5	2124.8	1690.5	1447.7	1236.5	1064.6
50°	5890.2	4881.4	4026.3	3334.2	2737.0	2301.2	1978.5	1550.2	1308.9	1102.3	945.5
52.5°	5906.8	4854.2	3978.1	3237.6	2583.2	2145.9	1821.6	1403.9	1186.8	989.2	830.9
55°	5869.1	4787.9	3877.0	3076.3	2418.8	1981.5	1678.4	1289.3	1067.7	880.7	757.0
57.5°	5762.0	4670.2	3687.0	2854.6	2245.4	1829.2	1514.0	1150.6	938.0	781.1	678.6
60°	5563.0	4421.4	3390.0	2592.2	2025.2	1597.0	1287.8	969.6	800.7	683.1	600.2
62.5°	5195.0	4030.8	2972.2	2230.3	1708.5	1295.4	1028.4	773.6	646.9	570.0	518.7
65°	4602.4	3442.7	2488.2	1756.8	1298.4	942.5	764.5	582.1	490.1	443.3	428.3
67.5°	3756.4	2658.6	1809.6	1220.0	879.2	660.5	532.3	425.3	381.5	363.4	357.4
70°	2731.0	1811.1	1171.7	770.6	580.6	461.4	402.6	342.3	318.2	313.7	313.7
72.5°	1714.6	1100.8	717.8	527.8	440.3	374.0	343.8	301.6	292.5	289.5	285.0
75°	1005.8	668.0	508.2	432.8	377.0	334.8	309.1	274.5	268.4	266.9	262.4
77.5°	640.9	481.0	410.2	369.5	340.8	303.1	280.5	244.3	242.8	241.3	239.8
80°	459.9	399.6	358.9	327.2	298.6	263.9	250.3	221.7	218.7	217.2	220.2
82.5°	348.3	330.2	313.7	289.5	250.3	224.7	214.1	194.5	196.0	188.5	187.0
85°	239.8	236.8	235.2	224.7	196.0	173.4	165.9	155.3	162.9	155.3	146.3
87.5°	117.6	116.1	107.1	126.7	117.6	93.5	84.4	93.5	104.1	101.0	93.5
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: P158944

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8
2.5°	2442.9	2436.9	2441.4	2438.4	2438.4	2436.9	2439.9	2435.4	2432.4	2435.4	2436.9
5°	2491.2	2483.7	2485.2	2474.6	2479.1	2468.6	2471.6	2464.1	2456.5	2453.5	2453.5
7.5°	2572.6	2565.1	2556.0	2554.5	2537.9	2531.9	2521.4	2515.3	2510.8	2500.2	2494.2
10°	2646.5	2634.5	2623.9	2622.4	2605.8	2590.7	2577.1	2565.1	2557.5	2542.5	2534.9
12.5°	2706.8	2694.8	2678.2	2669.1	2652.5	2634.5	2625.4	2607.3	2596.8	2580.2	2566.6
15°	2741.5	2720.4	2696.3	2679.7	2655.6	2636.0	2622.4	2608.8	2598.3	2577.1	2557.5
17.5°	2724.9	2690.2	2657.1	2626.9	2593.7	2575.6	2556.0	2539.5	2536.4	2512.3	2482.1
20°	2655.6	2614.8	2571.1	2530.4	2486.7	2461.0	2436.9	2411.3	2403.7	2375.1	2335.9
22.5°	2571.1	2524.4	2474.6	2424.8	2369.0	2332.9	2296.7	2265.0	2239.4	2197.1	2141.3
25°	2485.2	2415.8	2343.4	2280.1	2215.2	2170.0	2132.3	2097.6	2067.5	1999.6	1942.3
27.5°	2372.1	2263.5	2189.6	2117.2	2038.8	1980.0	1937.8	1889.5	1856.3	1777.9	1717.6
30°	2227.3	2118.7	2013.2	1940.8	1862.4	1799.0	1744.7	1675.4	1627.1	1569.8	1514.0
32.5°	2044.8	1936.3	1829.2	1747.8	1682.9	1604.5	1536.6	1470.3	1414.5	1358.7	1315.0
35°	1823.2	1717.6	1616.6	1535.1	1462.7	1400.9	1336.1	1278.8	1215.4	1155.1	1129.5
37.5°	1589.4	1476.3	1364.7	1293.9	1236.5	1192.8	1132.5	1085.8	1028.4	992.3	962.1
40°	1385.8	1265.2	1159.6	1099.3	1054.1	1004.3	954.6	918.4	877.6	841.5	818.8
42.5°	1213.9	1100.8	1010.4	959.1	904.8	850.5	812.8	782.6	757.0	729.9	702.7
45°	1055.6	947.0	871.6	808.3	763.0	719.3	693.7	680.1	665.0	648.4	630.3
47.5°	922.9	829.4	755.5	696.7	649.9	619.8	607.7	603.2	597.2	583.6	574.5
50°	821.9	744.9	669.5	616.8	577.6	562.5	548.9	544.4	536.8	532.3	526.3
52.5°	737.4	656.0	592.6	544.4	520.3	514.2	508.2	502.2	500.7	497.6	494.6
55°	668.0	597.2	538.4	502.2	490.1	485.6	484.1	478.0	476.5	476.5	472.0
57.5°	606.2	545.9	493.1	470.5	463.0	458.4	455.4	452.4	452.4	455.4	453.9
60°	542.9	491.6	459.9	447.9	443.3	435.8	428.3	425.3	426.8	434.3	434.3
62.5°	481.0	443.3	423.7	419.2	414.7	408.7	399.6	396.6	399.6	408.7	413.2
65°	413.2	396.6	390.6	387.6	384.5	380.0	374.0	371.0	372.5	377.0	383.0
67.5°	351.4	349.9	349.9	351.4	349.9	348.3	345.3	340.8	339.3	339.3	342.3
70°	313.7	313.7	318.2	318.2	316.7	316.7	312.2	307.6	304.6	301.6	303.1
72.5°	285.0	285.0	286.5	288.0	286.5	286.5	280.5	277.5	269.9	268.4	265.4
75°	260.9	257.9	257.9	256.4	254.8	256.4	250.3	242.8	239.8	238.3	235.2
77.5°	236.8	230.7	227.7	224.7	226.2	224.7	220.2	215.6	211.1	209.6	208.1
80°	209.6	200.6	196.0	188.5	193.0	194.5	191.5	187.0	185.5	184.0	182.5
82.5°	173.4	164.4	158.3	153.8	150.8	153.8	158.3	168.9	165.9	164.4	161.4
85°	135.7	120.6	113.1	114.6	107.1	108.6	122.1	128.2	128.2	131.2	128.2
87.5°	76.9	73.9	55.8	51.3	54.3	64.8	72.4	79.9	79.9	75.4	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: P158944

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8
2.5°	2436.9	2439.9	2441.4	2447.5	2450.5	2452.0	2453.5	2456.5	2458.0	2456.5	2464.1
5°	2449.0	2449.0	2446.0	2450.5	2452.0	2452.0	2449.0	2452.0	2452.0	2452.0	2459.5
7.5°	2480.6	2471.6	2467.1	2461.0	2456.5	2450.5	2442.9	2442.9	2441.4	2442.9	2447.5
10°	2513.8	2500.2	2483.7	2468.6	2455.0	2444.4	2430.9	2426.4	2424.8	2423.3	2435.4
12.5°	2539.5	2515.3	2489.7	2464.1	2436.9	2418.8	2396.2	2382.6	2381.1	2381.1	2396.2
15°	2521.4	2482.1	2432.4	2387.1	2363.0	2337.4	2311.7	2295.2	2293.6	2296.7	2305.7
17.5°	2430.9	2367.5	2323.8	2280.1	2248.4	2227.3	2210.7	2207.7	2213.7	2207.7	2219.8
20°	2277.1	2209.2	2179.0	2144.4	2132.3	2117.2	2093.1	2072.0	2072.0	2044.8	2052.4
22.5°	2078.0	2040.3	2001.1	1974.0	1964.9	1939.3	1913.6	1885.0	1882.0	1848.8	1844.3
25°	1869.9	1832.2	1800.5	1794.5	1767.4	1732.7	1708.5	1675.4	1667.8	1634.7	1630.1
27.5°	1657.3	1627.1	1595.5	1577.4	1562.3	1524.6	1503.5	1464.3	1449.2	1413.0	1408.5
30°	1455.2	1434.1	1396.4	1381.3	1352.7	1308.9	1263.7	1239.6	1227.5	1189.8	1177.7
32.5°	1265.2	1232.0	1203.4	1185.3	1149.1	1099.3	1058.6	1023.9	1001.3	956.1	944.0
35°	1084.2	1051.1	1037.5	990.7	959.1	925.9	870.1	849.0	808.3	773.6	761.5
37.5°	924.4	892.7	874.6	835.4	803.8	770.6	737.4	710.3	690.7	683.1	683.1
40°	787.2	770.6	748.0	719.3	698.2	674.1	656.0	646.9	645.4	648.4	656.0
42.5°	689.2	671.1	656.0	640.9	625.8	622.8	618.3	624.3	631.8	639.4	646.9
45°	615.3	600.2	591.1	585.1	583.6	588.1	597.2	606.2	619.8	628.8	634.9
47.5°	562.5	550.4	547.4	545.9	553.4	567.0	579.1	592.6	603.2	612.2	618.3
50°	517.2	506.7	505.2	503.7	514.2	526.3	536.8	554.9	562.5	568.5	573.0
52.5°	485.6	476.5	472.0	473.5	484.1	494.6	509.7	523.3	533.8	538.4	542.9
55°	459.9	456.9	446.4	450.9	461.4	475.0	490.1	505.2	515.7	523.3	530.8
57.5°	440.3	432.8	425.3	432.8	443.3	456.9	475.0	488.6	502.2	512.7	520.3
60°	419.2	413.2	407.2	414.7	425.3	438.8	452.4	470.5	487.1	497.6	505.2
62.5°	401.1	396.6	390.6	392.1	396.6	405.6	413.2	429.8	444.9	458.4	467.5
65°	375.5	374.0	364.9	366.4	369.5	378.5	384.5	399.6	414.7	426.8	434.3
67.5°	337.8	334.8	334.8	339.3	340.8	345.3	349.9	364.9	377.0	386.0	395.1
70°	300.1	298.6	298.6	301.6	300.1	304.6	310.6	324.2	339.3	348.3	357.4
72.5°	263.9	263.9	262.4	265.4	265.4	266.9	274.5	286.5	300.1	307.6	313.7
75°	232.2	230.7	230.7	230.7	232.2	232.2	239.8	250.3	263.9	268.4	277.5
77.5°	203.6	203.6	203.6	203.6	205.1	203.6	208.1	215.6	220.2	227.7	227.7
80°	179.5	177.9	179.5	181.0	181.0	179.5	179.5	181.0	182.5	182.5	182.5
82.5°	158.3	153.8	156.8	164.4	164.4	164.4	162.9	152.3	144.8	144.8	147.8
85°	126.7	126.7	128.2	138.7	140.2	134.2	140.2	125.2	110.1	105.6	108.6
87.5°	78.4	61.8	75.4	86.0	86.0	81.4	90.5	84.4	70.9	57.3	54.3
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: P158944
CATALOG NUMBER: VST-F10-LED-E-U-SLL-7030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	0°
2.5°	2470.1	2471.6	2480.6	2485.2	2485.2	2491.2	2494.2	2503.3	2501.8	2501.8	2504.8	2.5°
5°	2467.1	2471.6	2480.6	2486.7	2489.7	2497.2	2503.3	2513.8	2512.3	2515.3	2516.8	5°
7.5°	2456.5	2468.6	2477.6	2489.7	2500.2	2506.3	2513.8	2522.9	2519.8	2521.4	2519.8	7.5°
10°	2447.5	2459.5	2477.6	2494.2	2509.3	2518.3	2522.9	2533.4	2531.9	2534.9	2534.9	10°
12.5°	2411.3	2432.4	2455.0	2480.6	2503.3	2527.4	2542.5	2565.1	2575.6	2589.2	2604.3	12.5°
15°	2319.3	2343.4	2379.6	2408.3	2452.0	2485.2	2528.9	2572.6	2611.8	2649.5	2693.3	15°
17.5°	2228.8	2239.4	2268.0	2307.2	2346.4	2396.2	2449.0	2527.4	2598.3	2675.2	2759.6	17.5°
20°	2061.4	2079.5	2099.1	2145.9	2192.6	2263.5	2328.3	2430.9	2534.9	2655.6	2785.3	20°
22.5°	1854.8	1872.9	1894.0	1946.8	2004.1	2076.5	2154.9	2269.5	2408.3	2565.1	2738.5	22.5°
25°	1631.6	1642.2	1658.8	1711.6	1746.2	1841.3	1936.3	2055.4	2206.2	2408.3	2610.3	25°
27.5°	1385.8	1405.4	1419.0	1443.1	1523.1	1604.5	1704.0	1832.2	2014.7	2221.3	2465.6	27.5°
30°	1150.6	1167.2	1159.6	1210.9	1263.7	1349.6	1456.7	1598.5	1773.4	2019.2	2301.2	30°
32.5°	919.9	931.9	927.4	963.6	1016.4	1102.3	1203.4	1357.2	1542.7	1805.1	2111.2	32.5°
35°	758.5	761.5	778.1	794.7	839.9	909.3	995.3	1129.5	1319.5	1560.8	1885.0	35°
37.5°	683.1	689.2	699.7	722.3	755.5	805.3	876.1	980.2	1143.1	1355.7	1645.2	37.5°
40°	660.5	665.0	671.1	686.1	717.8	761.5	824.9	912.3	1031.5	1210.9	1446.2	40°
42.5°	649.9	649.9	649.9	659.0	683.1	729.9	802.2	888.2	992.3	1128.0	1318.0	42.5°
45°	634.9	634.9	633.4	637.9	654.5	701.2	779.6	876.1	987.7	1117.4	1281.8	45°
47.5°	618.3	616.8	612.2	612.2	622.8	669.5	751.0	855.0	977.2	1126.5	1302.9	47.5°
50°	573.0	573.0	573.0	577.6	586.6	628.8	716.3	826.4	966.6	1132.5	1336.1	50°
52.5°	547.4	548.9	553.4	553.4	562.5	606.2	698.2	820.3	972.7	1155.1	1378.3	52.5°
55°	535.3	539.9	544.4	544.4	551.9	597.2	692.2	824.9	995.3	1201.9	1450.7	55°
57.5°	524.8	529.3	532.3	532.3	538.4	577.6	675.6	817.3	1008.8	1247.1	1539.7	57.5°
60°	505.2	508.2	509.7	509.7	511.2	544.4	637.9	781.1	978.7	1244.1	1587.9	60°
62.5°	469.0	475.0	476.5	478.0	478.0	509.7	589.6	722.3	913.8	1198.8	1574.3	62.5°
65°	441.8	444.9	449.4	452.4	458.4	479.5	542.9	651.5	829.4	1108.4	1498.9	65°
67.5°	399.6	404.1	408.7	414.7	420.7	434.3	484.1	571.5	714.8	954.6	1330.0	67.5°
70°	361.9	363.4	367.9	375.5	377.0	384.5	420.7	481.0	585.1	766.1	1070.7	70°
72.5°	315.2	318.2	324.2	333.3	333.3	339.3	360.4	392.1	458.4	585.1	790.2	72.5°
75°	274.5	277.5	282.0	282.0	274.5	276.0	291.0	313.7	363.4	440.3	576.1	75°
77.5°	227.7	233.7	238.3	229.2	226.2	230.7	238.3	254.8	291.0	349.9	432.8	77.5°
80°	188.5	191.5	193.0	194.5	191.5	196.0	202.1	212.6	236.8	282.0	342.3	80°
82.5°	150.8	153.8	158.3	164.4	164.4	181.0	182.5	182.5	196.0	224.7	268.4	82.5°
85°	111.6	117.6	123.7	131.2	132.7	141.8	137.2	135.7	140.2	167.4	185.5	85°
87.5°	57.3	61.8	64.8	70.9	63.3	66.4	66.4	61.8	54.3	67.9	75.4	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P158944

NUMBER: VST-F10-LED-E-U-SLL-7030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2519.8	2519.8	2519.8	2519.8	2519.8	2519.8	2519.8
2507.8	2504.8	2507.8	2507.8	2512.3	2509.3	2669.1
2519.8	2516.8	2519.8	2522.9	2527.4	2527.4	2703.8
2521.4	2521.4	2518.3	2525.9	2531.9	2537.9	2737.0
2539.5	2539.5	2542.5	2544.0	2557.5	2572.6	2791.3
2613.3	2620.9	2634.5	2639.0	2663.1	2679.7	2930.0
2726.4	2768.7	2795.8	2804.9	2826.0	2857.6	3163.8
2841.0	2911.9	2985.8	3031.1	3058.2	3095.9	3450.3
2927.0	3059.7	3186.4	3299.5	3364.3	3438.2	3851.4
2934.5	3145.7	3359.8	3569.4	3742.8	3880.1	4394.3
2862.2	3139.6	3435.2	3756.4	4055.0	4302.3	5018.6
2770.2	3111.0	3488.0	3898.1	4290.2	4655.2	5478.5
2654.1	3062.7	3497.0	3958.5	4418.4	4857.2	5740.9
2477.6	2919.5	3388.4	3898.1	4432.0	4965.8	5909.8
2251.4	2702.3	3183.4	3763.9	4368.6	5009.5	6051.6
2020.7	2465.6	2982.8	3584.5	4267.6	5002.0	6108.9
1776.4	2218.2	2747.6	3393.0	4130.4	4932.6	6098.3
1610.5	2013.2	2531.9	3198.4	3978.1	4840.6	6027.4
1514.0	1866.9	2361.5	3020.5	3839.3	4730.6	5938.5
1512.5	1823.2	2271.0	2893.8	3699.1	4608.4	5817.8
1565.3	1850.3	2260.5	2839.5	3622.2	4519.4	5686.6
1627.1	1925.7	2316.3	2859.1	3620.7	4480.2	5594.6
1725.1	2053.9	2438.4	2943.6	3659.9	4474.2	5481.5
1850.3	2227.3	2658.6	3151.7	3812.2	4593.3	5489.1
1978.5	2430.9	2946.6	3507.6	4112.3	4870.8	5727.3
2025.2	2587.7	3239.2	3925.3	4561.7	5287.0	6218.9
1984.5	2623.9	3417.1	4249.5	4999.0	5774.1	6805.5
1833.7	2477.6	3344.7	4341.5	5250.8	6119.4	7392.2
1509.5	2114.2	3016.0	4134.9	5231.2	6190.3	7603.3
1106.9	1639.2	2452.0	3513.6	4650.6	5746.9	7286.6
799.2	1159.6	1770.4	2646.5	3676.5	4628.0	6111.9
573.0	803.8	1149.1	1738.7	2504.8	3222.6	4356.6
411.7	545.9	716.3	1043.5	1526.1	1978.5	2737.0
303.1	374.0	470.5	648.4	898.8	1152.1	1648.2
206.6	220.2	283.5	383.0	589.6	847.5	1118.9
78.4	89.0	104.1	156.8	263.9	303.1	214.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)