

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: P159166

Luminaire Tested: **VST-F10-LED-E-U-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159166
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-SLR-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (70) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22763.3 lumens
Efficiency: N/A
Efficacy: 88.0 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 - G5

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



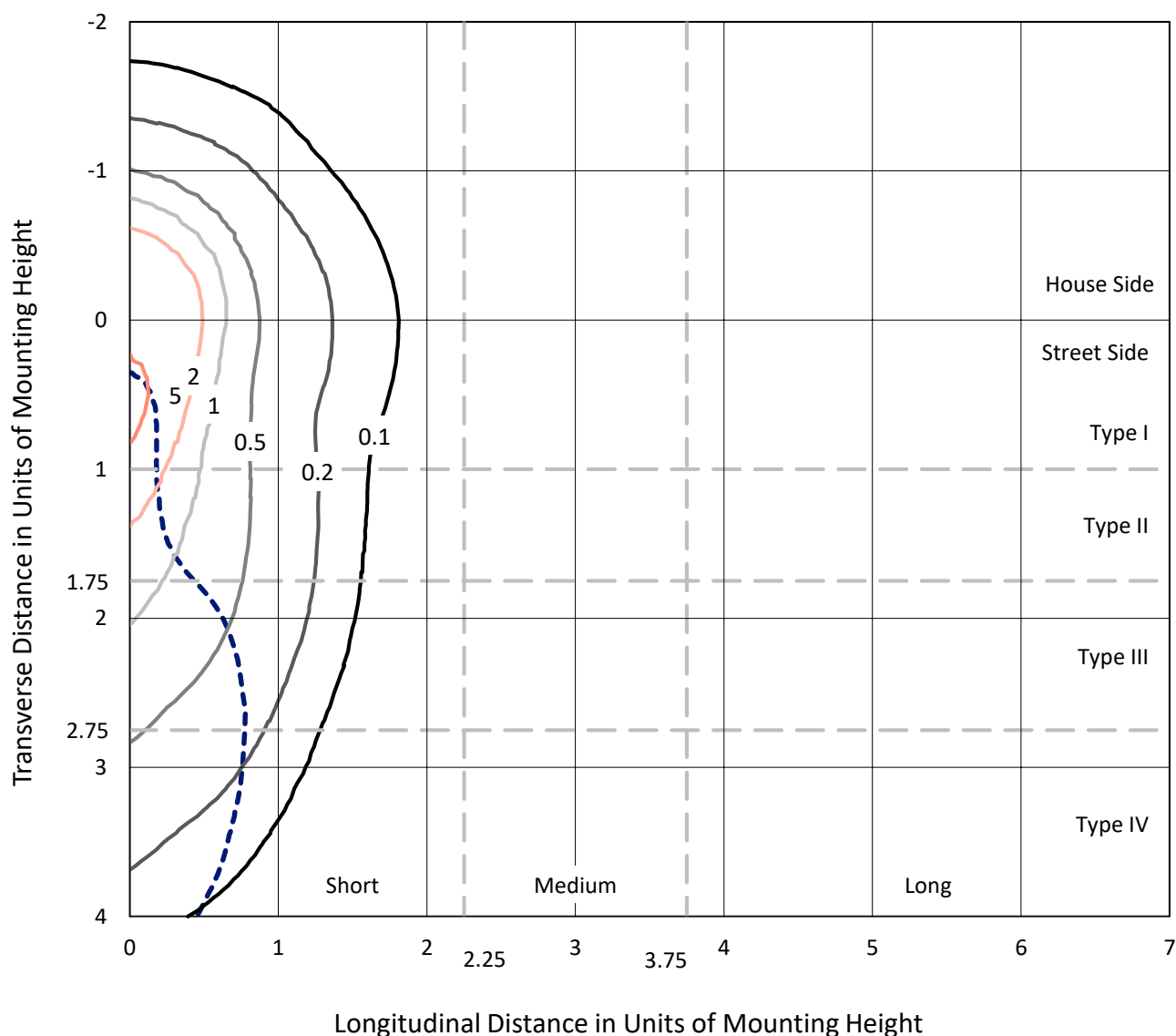
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

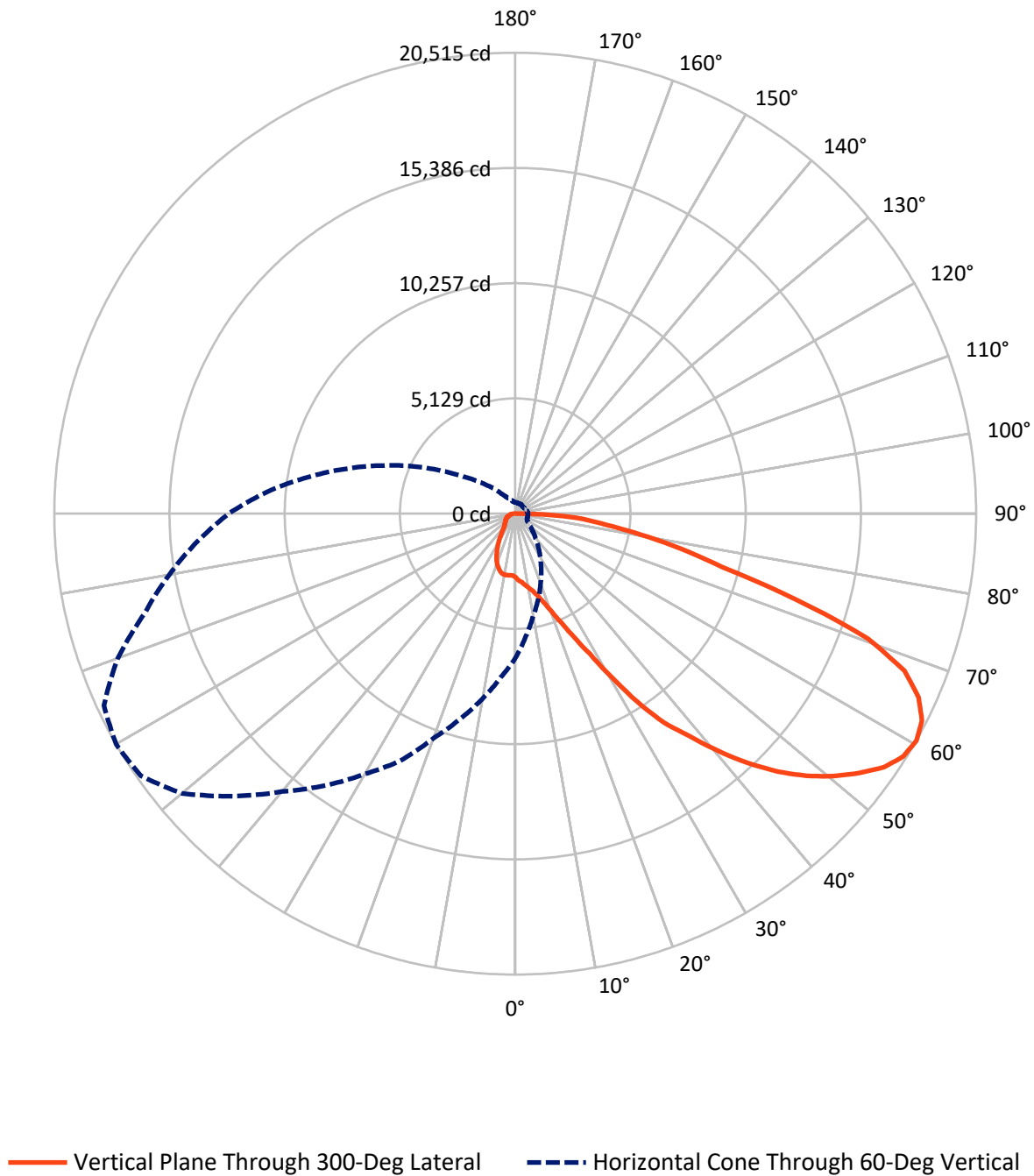


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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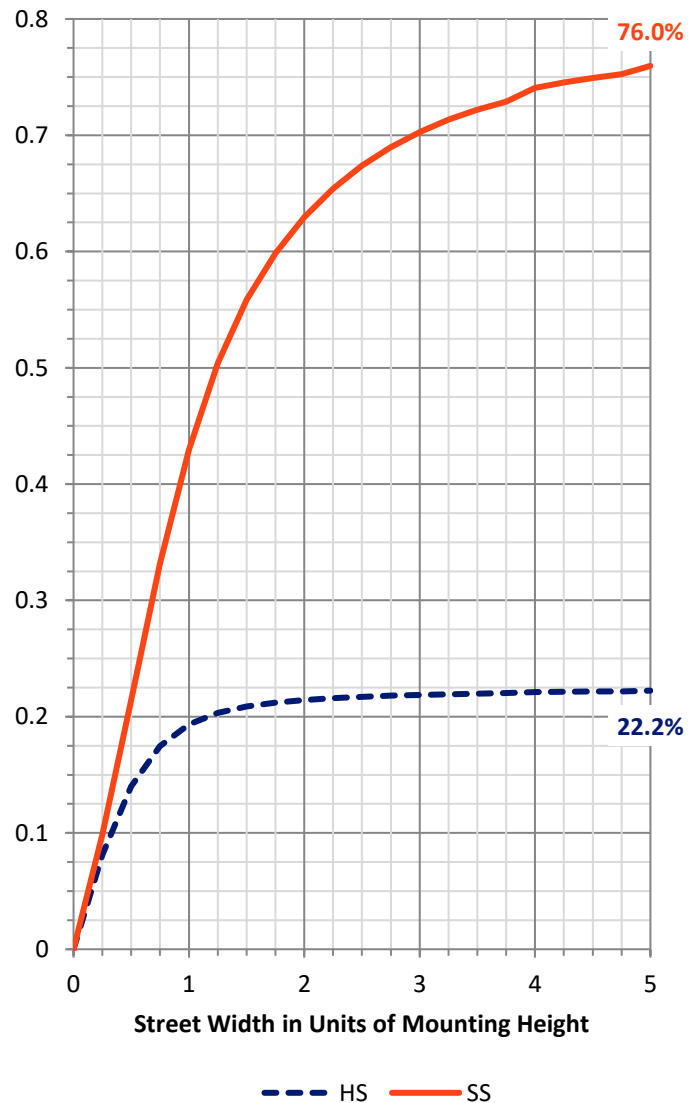
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5125.6	0.0	5125.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	17637.7	0.0	17637.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	22763.3	0.0	22763.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	1.2
10°-20°	901.8	4.0
20°-30°	1711.2	7.5
30°-40°	2694.8	11.8
40°-50°	3761.3	16.5
50°-60°	4651.9	20.4
60°-70°	4821.9	21.2
70°-80°	3034.1	13.3
80°-90°	907.0	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°	22763.3	100.0
0°-180°	22763.3	100.0

Coefficient of Utilization



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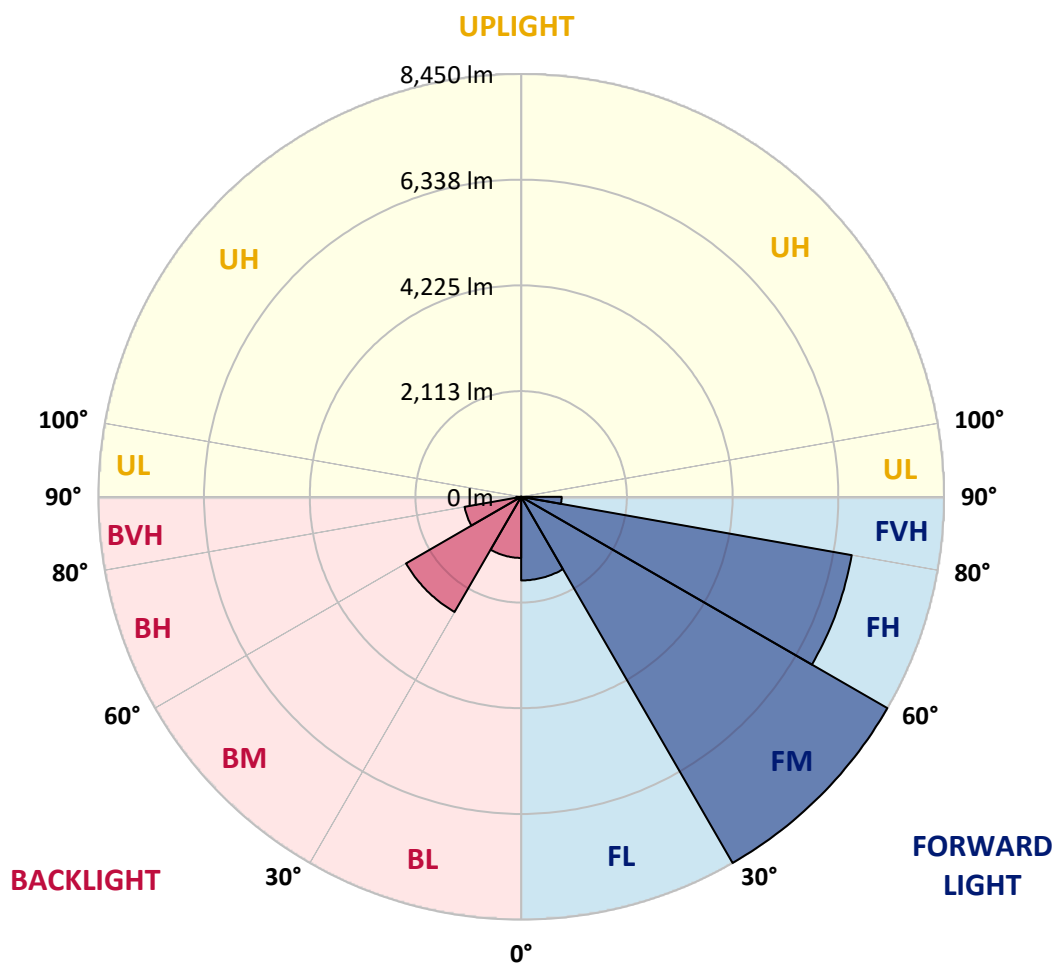
CATALOG NUMBER: VST-F10-LED-E-U-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1671.2	7.3			
FM	(30°-60°)	8450.1	37.1			
FH	(60°-80°)	6708.1	29.5			G3/7500
FVH	(80°-90°)	808.3	3.6			G5
BL	(0°-30°)	1221.1	5.4	B3/2500		
BM	(30°-60°)	2657.9	11.7	B3/5000		
BH	(60°-80°)	1147.9	5.0	B3/2500		G3/2500
BVH	(80°-90°)	98.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9
2.5°	2998.6	2819.1	2822.5	2817.4	2817.4	2814.0	2817.4	2814.0	2810.6	2810.6	2812.3
5°	3037.6	2839.4	2839.4	2834.3	2830.9	2827.5	2830.9	2827.5	2825.8	2822.5	2824.2
7.5°	3074.9	2851.3	2844.5	2837.7	2829.2	2832.6	2832.6	2830.9	2832.6	2830.9	2834.3
10°	3135.9	2890.2	2873.3	2858.0	2856.3	2853.0	2853.0	2847.9	2847.9	2844.5	2846.2
12.5°	3291.7	3010.5	2991.9	2964.8	2959.7	2944.4	2936.0	2925.8	2908.9	2893.6	2881.8
15°	3554.3	3210.4	3174.8	3151.1	3141.0	3110.5	3063.0	3025.8	2976.6	2934.3	2890.2
17.5°	3876.2	3478.1	3435.7	3405.2	3354.4	3271.4	3191.8	3100.3	3005.4	2919.0	2839.4
20°	4326.9	3862.7	3779.7	3706.8	3579.7	3437.4	3288.3	3129.1	2983.4	2847.9	2731.0
22.5°	4936.8	4359.1	4204.9	4010.1	3774.6	3534.0	3296.8	3076.6	2881.8	2705.6	2549.7
25°	5638.1	4833.4	4555.6	4220.1	3859.3	3527.2	3215.5	2932.6	2705.6	2478.5	2309.1
27.5°	6154.9	5229.8	4819.9	4379.4	3918.6	3495.0	3112.2	2769.9	2495.5	2263.4	2058.4
30°	6449.6	5456.9	4963.9	4447.1	3928.7	3440.8	2981.7	2585.3	2268.5	1992.3	1795.8
32.5°	6639.4	5578.8	4979.1	4379.4	3806.8	3279.9	2783.5	2371.8	2027.9	1733.1	1524.7
35°	6798.6	5628.0	4908.0	4228.6	3576.4	3035.9	2529.4	2117.7	1753.4	1482.4	1268.9
37.5°	6863.0	5619.5	4794.4	4027.0	3351.0	2769.9	2270.2	1848.3	1523.0	1284.2	1101.2
40°	6851.1	5541.6	4640.3	3811.8	3086.7	2492.1	1995.7	1624.7	1360.4	1158.8	1025.0
42.5°	6771.5	5438.2	4469.2	3593.3	2844.5	2261.7	1809.4	1480.7	1267.2	1114.8	997.9
45°	6671.6	5314.6	4313.3	3393.4	2653.0	2097.4	1700.9	1440.0	1255.4	1109.7	984.3
47.5°	6536.0	5177.3	4155.8	3251.1	2551.4	2048.2	1699.2	1463.7	1265.5	1097.8	960.6
50°	6388.6	5077.4	4069.4	3190.1	2539.5	2078.7	1758.5	1501.0	1272.3	1086.0	928.4
52.5°	6285.3	5033.3	4067.7	3212.1	2602.2	2163.4	1828.0	1548.5	1297.7	1092.7	921.6
55°	6158.2	5026.5	4111.7	3307.0	2739.4	2307.4	1938.1	1629.8	1350.2	1118.1	926.7
57.5°	6166.7	5160.4	4282.8	3540.8	2986.8	2502.3	2078.7	1729.7	1401.1	1133.4	918.2
60°	6434.4	5472.1	4620.0	3940.6	3310.4	2731.0	2222.7	1783.9	1397.7	1099.5	877.6
62.5°	6986.7	5939.7	5124.8	4409.9	3639.0	2907.2	2275.2	1768.7	1346.9	1026.7	811.5
65°	7645.7	6486.9	5616.1	4774.1	3838.9	2947.8	2229.5	1684.0	1245.2	931.8	731.9
67.5°	8304.7	6874.9	5899.0	4877.5	3757.6	2783.5	2060.1	1494.2	1072.4	803.0	642.1
70°	8541.9	6954.5	5877.0	4645.4	3388.3	2375.2	1695.8	1202.8	860.6	657.3	540.4
72.5°	8186.1	6456.4	5224.8	3947.4	2754.7	1841.5	1243.5	887.7	657.3	515.0	440.5
75°	6866.4	5199.4	4130.3	2973.2	1988.9	1302.8	897.9	647.2	494.7	408.3	352.4
77.5°	4894.4	3620.4	2814.0	1953.4	1290.9	903.0	643.8	486.2	393.0	327.0	286.3
80°	3074.9	2222.7	1714.5	1172.4	804.7	613.3	462.5	384.6	316.8	266.0	238.9
82.5°	1851.7	1294.3	1009.7	728.5	528.6	420.1	340.5	301.6	252.4	220.2	205.0
85°	1257.1	952.1	662.4	430.3	318.5	247.3	232.1	208.4	188.1	157.6	152.5
87.5°	240.6	340.5	296.5	176.2	116.9	100.0	88.1	84.7	76.2	61.0	69.5
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°	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9
2.5°	2802.1	2798.7	2792.0	2792.0	2786.9	2776.7	2775.0	2768.2	2759.8	2761.5	2759.8
5°	2812.3	2805.5	2797.0	2793.7	2786.9	2776.7	2771.6	2763.2	2754.7	2754.7	2754.7
7.5°	2824.2	2815.7	2808.9	2797.0	2783.5	2773.3	2759.8	2749.6	2744.5	2742.8	2744.5
10°	2834.3	2829.2	2819.1	2802.1	2783.5	2763.2	2749.6	2736.1	2722.5	2724.2	2725.9
12.5°	2856.3	2839.4	2812.3	2786.9	2758.1	2732.7	2708.9	2692.0	2675.1	2675.1	2676.8
15°	2841.1	2792.0	2754.7	2705.6	2673.4	2632.7	2605.6	2590.4	2580.2	2576.8	2578.5
17.5°	2751.3	2692.0	2636.1	2592.1	2548.0	2515.8	2504.0	2493.8	2480.2	2487.0	2480.2
20°	2615.8	2542.9	2463.3	2410.8	2358.3	2336.2	2315.9	2305.7	2297.3	2327.8	2327.8
22.5°	2420.9	2332.8	2251.5	2187.1	2127.9	2104.1	2083.8	2071.9	2077.0	2114.3	2117.7
25°	2175.3	2068.6	1961.8	1922.9	1863.6	1844.9	1833.1	1831.4	1836.5	1873.7	1882.2
27.5°	1914.4	1802.6	1711.1	1621.3	1594.2	1578.9	1556.9	1582.3	1587.4	1628.1	1645.0
30°	1636.6	1516.3	1419.7	1360.4	1302.8	1311.3	1292.6	1323.1	1336.7	1379.0	1392.6
32.5°	1351.9	1238.4	1141.9	1082.6	1041.9	1047.0	1033.4	1060.5	1074.1	1124.9	1150.3
35°	1118.1	1021.6	943.6	892.8	874.2	855.5	852.2	855.5	869.1	908.1	953.8
37.5°	984.3	904.7	848.8	811.5	786.1	774.2	767.5	767.5	767.5	775.9	797.9
40°	926.7	855.5	806.4	770.8	753.9	747.1	742.0	737.0	728.5	725.1	726.8
42.5°	901.3	820.0	767.5	740.3	730.2	730.2	730.2	726.8	718.3	709.8	701.4
45°	875.9	787.8	735.3	716.6	711.5	713.2	713.2	713.2	706.5	696.3	681.0
47.5°	843.7	752.2	699.7	687.8	687.8	692.9	694.6	694.6	687.8	677.7	665.8
50°	804.7	706.5	659.0	648.9	643.8	643.8	643.8	643.8	638.7	631.9	623.4
52.5°	784.4	681.0	631.9	621.8	621.8	616.7	615.0	609.9	604.8	599.7	587.9
55°	777.6	670.9	620.1	611.6	611.6	606.5	601.4	596.3	587.9	579.4	567.5
57.5°	759.0	648.9	604.8	598.0	598.0	594.6	589.6	584.5	576.0	564.2	548.9
60°	716.6	611.6	574.3	572.6	572.6	570.9	567.5	567.5	559.1	547.2	528.6
62.5°	662.4	572.6	537.0	537.0	535.4	533.7	526.9	525.2	515.0	499.8	482.8
65°	609.9	538.7	515.0	508.2	504.9	499.8	496.4	487.9	479.4	465.9	449.0
67.5°	543.8	487.9	472.7	465.9	459.1	454.0	449.0	443.9	433.7	423.5	410.0
70°	472.7	432.0	423.5	421.8	413.4	408.3	406.6	401.5	391.3	381.2	364.2
72.5°	404.9	381.2	374.4	374.4	364.2	357.5	354.1	352.4	345.6	337.1	321.9
75°	327.0	310.0	308.3	316.8	316.8	311.7	308.3	311.7	301.6	296.5	281.2
77.5°	267.7	259.2	254.1	257.5	267.7	262.6	255.8	255.8	255.8	247.3	242.3
80°	227.0	220.2	215.2	218.5	216.9	215.2	211.8	205.0	205.0	205.0	203.3
82.5°	205.0	203.3	184.7	184.7	177.9	172.8	169.4	166.0	162.6	162.6	171.1
85°	154.2	159.3	149.1	147.4	138.9	132.1	125.4	122.0	118.6	123.7	140.6
87.5°	74.5	74.5	71.2	79.6	72.8	69.5	64.4	61.0	64.4	79.6	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9
2.5°	2756.4	2754.7	2753.0	2749.6	2742.8	2741.1	2737.7	2737.7	2736.1	2732.7	2736.1
5°	2751.3	2754.7	2754.7	2753.0	2747.9	2751.3	2751.3	2756.4	2756.4	2759.8	2768.2
7.5°	2744.5	2753.0	2759.8	2764.9	2771.6	2776.7	2786.9	2802.1	2808.9	2820.8	2825.8
10°	2731.0	2746.2	2758.1	2773.3	2790.3	2808.9	2824.2	2847.9	2856.3	2873.3	2881.8
12.5°	2692.0	2717.4	2737.7	2768.2	2797.0	2825.8	2853.0	2883.4	2898.7	2917.3	2929.2
15°	2597.1	2625.9	2654.7	2681.8	2732.7	2788.6	2832.6	2873.3	2895.3	2919.0	2930.9
17.5°	2483.6	2502.3	2526.0	2561.6	2610.7	2659.8	2731.0	2788.6	2822.5	2849.6	2853.0
20°	2351.5	2378.6	2395.5	2409.1	2448.0	2481.9	2558.2	2624.2	2668.3	2700.5	2708.9
22.5°	2149.9	2178.7	2207.5	2217.6	2248.1	2292.2	2334.5	2405.7	2468.4	2515.8	2544.6
25°	1919.5	1946.6	1985.5	2016.0	2022.8	2058.4	2100.7	2182.1	2246.4	2322.7	2356.6
27.5°	1689.1	1712.8	1755.1	1772.1	1792.4	1828.0	1861.9	1929.6	1997.4	2085.5	2122.8
30°	1419.7	1470.5	1519.7	1551.8	1568.8	1611.1	1634.9	1700.9	1763.6	1828.0	1882.2
32.5°	1189.3	1235.0	1290.9	1331.6	1351.9	1384.1	1421.4	1477.3	1526.4	1589.1	1651.8
35°	977.5	1040.2	1077.5	1113.1	1165.6	1180.8	1218.1	1268.9	1297.7	1365.5	1436.6
37.5°	828.4	865.7	903.0	938.6	982.6	1002.9	1038.5	1080.9	1114.8	1155.4	1219.8
40°	737.0	757.3	784.4	808.1	840.3	865.7	884.3	919.9	945.3	986.0	1031.7
42.5°	694.6	699.7	703.1	720.0	737.0	753.9	774.2	789.5	820.0	850.5	879.3
45°	670.9	660.7	655.6	657.3	664.1	674.3	691.2	708.2	728.5	747.1	764.1
47.5°	650.6	637.0	621.8	613.3	615.0	618.4	631.9	645.5	655.6	670.9	677.7
50°	603.1	591.3	577.7	565.8	567.5	569.2	581.1	591.3	598.0	603.1	611.6
52.5°	572.6	555.7	543.8	532.0	530.3	535.4	545.5	555.7	559.1	562.5	564.2
55°	550.6	533.7	518.4	506.6	501.5	513.3	516.7	530.3	535.4	535.4	537.0
57.5°	533.7	513.3	498.1	486.2	477.8	486.2	494.7	509.9	511.6	508.2	508.2
60°	508.2	493.0	477.8	465.9	457.4	464.2	471.0	487.9	487.9	479.4	477.8
62.5°	464.2	455.7	445.6	440.5	438.8	445.6	450.6	464.2	459.1	449.0	445.6
65°	432.0	425.2	415.1	411.7	410.0	420.1	421.8	430.3	423.5	418.5	416.8
67.5°	393.0	388.0	382.9	381.2	376.1	376.1	379.5	384.6	381.2	381.2	382.9
70°	349.0	342.2	337.1	338.8	335.4	335.4	337.1	340.5	338.8	342.2	345.6
72.5°	308.3	299.9	298.2	298.2	294.8	296.5	296.5	298.2	301.6	303.3	311.7
75°	269.4	260.9	260.9	259.2	259.2	259.2	260.9	264.3	267.7	269.4	272.8
77.5°	233.8	228.7	230.4	228.7	228.7	228.7	228.7	233.8	235.5	237.2	242.3
80°	201.6	201.6	203.3	203.3	201.6	199.9	201.6	205.0	206.7	208.4	210.1
82.5°	183.0	184.7	184.7	184.7	176.2	172.8	177.9	181.3	184.7	186.4	189.7
85°	157.6	150.8	157.6	155.9	144.0	142.3	142.3	144.0	147.4	144.0	144.0
87.5°	101.6	91.5	96.6	96.6	84.7	69.5	88.1	94.9	84.7	89.8	89.8
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: P159166

CATALOG NUMBER: VST-F10-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9
2.5°	2741.1	2737.7	2739.4	2739.4	2742.8	2737.7	2744.5	2751.3	2753.0	2753.0	2754.7
5°	2776.7	2773.3	2785.2	2780.1	2792.0	2790.3	2798.7	2805.5	2808.9	2808.9	2808.9
7.5°	2832.6	2844.5	2851.3	2869.9	2871.6	2881.8	2890.2	2898.7	2895.3	2897.0	2895.3
10°	2895.3	2910.6	2927.5	2946.1	2947.8	2959.7	2973.2	2981.7	2978.3	2976.6	2971.5
12.5°	2949.5	2959.7	2980.0	2998.6	3008.8	3027.4	3041.0	3047.8	3047.8	3042.7	3037.6
15°	2946.1	2961.4	2983.4	3010.5	3029.1	3056.2	3080.0	3095.2	3096.9	3091.8	3090.1
17.5°	2871.6	2893.6	2913.9	2951.2	2985.1	3022.4	3061.3	3083.4	3103.7	3115.5	3122.3
20°	2737.7	2764.9	2793.7	2842.8	2888.5	2937.7	2983.4	3015.6	3046.1	3081.7	3124.0
22.5°	2580.2	2620.9	2661.5	2724.2	2780.1	2836.0	2888.5	2927.5	2974.9	3035.9	3115.5
25°	2395.5	2437.9	2488.7	2561.6	2632.7	2714.0	2792.0	2869.9	2961.4	3066.4	3190.1
27.5°	2177.0	2224.4	2290.5	2378.6	2459.9	2542.9	2664.9	2788.6	2937.7	3073.2	3213.8
30°	1960.1	2021.1	2092.3	2180.4	2261.7	2380.3	2502.3	2654.7	2812.3	2964.8	3132.5
32.5°	1726.3	1802.6	1890.7	1963.5	2055.0	2175.3	2297.3	2459.9	2627.6	2807.2	2991.9
35°	1501.0	1573.9	1643.3	1724.6	1816.1	1929.6	2048.2	2204.1	2415.9	2607.3	2827.5
37.5°	1272.3	1340.1	1389.2	1453.6	1533.2	1658.6	1785.6	1965.2	2165.1	2400.6	2620.9
40°	1072.4	1128.3	1184.2	1235.0	1302.8	1421.4	1556.9	1733.1	1929.6	2158.3	2404.0
42.5°	913.1	955.5	1016.5	1077.5	1135.1	1236.7	1363.8	1536.6	1731.4	1965.2	2210.9
45°	779.3	808.1	857.2	908.1	979.2	1063.9	1185.9	1362.1	1560.3	1795.8	2055.0
47.5°	682.7	696.3	730.2	782.7	848.8	931.8	1036.8	1196.1	1389.2	1626.4	1899.1
50°	616.7	631.9	648.9	692.9	752.2	836.9	923.3	1062.2	1238.4	1470.5	1741.6
52.5°	570.9	577.7	584.5	611.6	665.8	737.0	828.4	933.5	1111.4	1333.3	1577.3
55°	543.8	545.5	550.6	564.2	604.8	670.9	750.5	850.5	989.4	1199.5	1448.5
57.5°	511.6	515.0	520.1	528.6	554.0	613.3	681.0	762.4	877.6	1053.8	1292.6
60°	481.1	489.6	498.1	503.2	516.7	552.3	609.9	674.3	767.5	899.6	1089.3
62.5°	449.0	459.1	465.9	471.0	476.1	498.1	540.4	582.8	640.4	726.8	869.1
65°	420.1	426.9	432.0	435.4	438.8	445.6	464.2	481.1	498.1	550.6	653.9
67.5°	388.0	391.3	393.0	394.7	393.0	393.0	394.7	401.5	408.3	428.6	477.8
70°	350.7	355.8	355.8	357.5	357.5	352.4	352.4	352.4	352.4	357.5	384.6
72.5°	315.1	321.9	321.9	323.6	321.9	320.2	320.2	320.2	325.3	328.7	338.8
75°	281.2	288.0	286.3	288.0	289.7	289.7	293.1	294.8	299.9	301.6	308.3
77.5°	247.3	252.4	254.1	252.4	255.8	259.2	266.0	269.4	271.1	272.8	274.5
80°	215.2	218.5	216.9	211.8	220.2	225.3	235.5	247.3	244.0	245.7	249.0
82.5°	177.9	172.8	169.4	172.8	177.9	184.7	194.8	210.1	211.8	220.2	218.5
85°	137.2	122.0	120.3	128.8	127.1	135.5	152.5	164.3	174.5	183.0	174.5
87.5°	81.3	72.8	61.0	57.6	62.7	83.0	86.4	105.0	113.5	116.9	105.0
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: P159166

CATALOG NUMBER: VST-F10-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9
2.5°	2908.9	2917.3	2917.3	2920.7	2925.8	2927.5	2934.3	2946.1	2947.8	2947.8	2952.9
5°	2963.1	2971.5	2971.5	2978.3	2980.0	2988.5	2997.0	3010.5	3017.3	3015.6	3037.6
7.5°	3051.2	3044.4	3039.3	3049.5	3054.6	3064.7	3081.7	3093.5	3105.4	3124.0	3154.5
10°	3125.7	3115.5	3110.5	3117.2	3120.6	3132.5	3142.7	3159.6	3188.4	3217.2	3254.5
12.5°	3186.7	3174.8	3161.3	3164.7	3169.8	3185.0	3201.9	3224.0	3266.3	3303.6	3359.5
15°	3237.5	3220.6	3207.0	3213.8	3225.7	3246.0	3274.8	3313.8	3383.2	3447.6	3522.1
17.5°	3286.7	3283.3	3278.2	3300.2	3308.7	3356.1	3398.5	3469.6	3564.5	3661.1	3767.8
20°	3334.1	3371.4	3390.0	3434.0	3461.2	3525.5	3589.9	3676.3	3796.6	3928.7	4074.4
22.5°	3400.2	3501.8	3564.5	3654.3	3700.0	3769.5	3864.4	3977.9	4111.7	4281.1	4467.5
25°	3557.7	3706.8	3832.2	3972.8	4088.0	4194.7	4308.2	4445.5	4638.6	4792.8	5036.7
27.5°	3627.2	3837.3	4025.3	4223.5	4396.3	4560.7	4740.2	4906.3	5135.0	5343.4	5638.1
30°	3561.1	3798.3	4042.2	4301.4	4553.9	4802.9	5063.8	5317.9	5582.2	5873.6	6187.0
32.5°	3439.1	3705.1	3979.6	4284.5	4597.9	4921.5	5260.3	5629.7	6002.4	6364.9	6685.1
35°	3315.5	3601.8	3906.7	4255.7	4625.0	5026.5	5446.7	5914.3	6407.3	6866.4	7284.9
37.5°	3135.9	3451.0	3800.0	4203.2	4642.0	5136.7	5677.1	6253.1	6876.6	7508.5	8057.4
40°	2919.0	3252.8	3634.0	4098.2	4625.0	5250.2	5953.2	6691.9	7493.2	8264.1	8938.3
42.5°	2720.8	3046.1	3452.7	3957.5	4581.0	5350.1	6215.8	7135.8	8084.5	8946.8	9827.8
45°	2546.3	2905.5	3313.8	3859.3	4559.0	5434.8	6410.7	7467.8	8553.8	9580.4	10620.6
47.5°	2387.1	2759.8	3217.2	3805.1	4548.8	5485.7	6546.2	7684.7	8887.5	10066.6	11274.6
50°	2222.7	2585.3	3074.9	3745.8	4523.4	5484.0	6617.4	7832.1	9121.3	10444.4	11725.2
52.5°	2046.5	2410.8	2902.1	3637.3	4469.2	5453.5	6636.0	7932.0	9306.0	10676.5	12108.1
55°	1885.6	2226.1	2717.4	3456.1	4355.7	5378.9	6593.6	7974.4	9436.4	10906.9	12377.5
57.5°	1700.9	2055.0	2522.6	3207.0	4142.2	5246.8	6473.4	7915.1	9473.7	11061.1	12590.9
60°	1446.8	1794.1	2275.2	2912.2	3808.5	4967.3	6249.7	7735.5	9355.1	11088.2	12743.4
62.5°	1155.4	1455.3	1919.5	2505.6	3339.2	4528.5	5836.4	7332.3	8985.8	10834.1	12665.5
65°	858.9	1058.8	1458.7	1973.7	2795.3	3867.7	5170.5	6656.3	8264.1	10127.6	12175.9
67.5°	598.0	742.0	987.7	1370.6	2033.0	2986.8	4220.1	5600.9	7147.6	8819.8	11159.4
70°	452.3	518.4	652.2	865.7	1316.4	2034.7	3068.1	4298.1	5733.0	7344.1	9548.2
72.5°	386.3	420.1	494.7	593.0	806.4	1236.7	1926.2	2958.0	4230.3	5541.6	7325.5
75°	347.3	376.1	423.5	486.2	570.9	750.5	1130.0	1872.0	2802.1	3711.9	5111.3
77.5°	315.1	340.5	382.9	415.1	460.8	540.4	720.0	1119.8	1678.9	2293.9	3171.5
80°	281.2	296.5	335.4	367.6	403.2	449.0	516.7	703.1	964.0	1358.7	1870.3
82.5°	240.6	252.4	281.2	325.3	352.4	371.0	391.3	465.9	577.7	737.0	1038.5
85°	186.4	194.8	220.2	252.4	264.3	266.0	269.4	289.7	359.2	552.3	894.5
87.5°	94.9	105.0	132.1	142.3	120.3	130.4	132.1	140.6	186.4	303.3	308.3
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: P159166
CATALOG NUMBER: VST-F10-LED-E-U-SLR-7050

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	0°
2.5°	2952.9	2958.0	2969.8	2968.2	2976.6	2976.6	2976.6	2985.1	2980.0	2985.1	2993.6	2.5°
5°	3037.6	3046.1	3063.0	3063.0	3064.7	3059.6	3069.8	3076.6	3068.1	3064.7	3066.4	5°
7.5°	3161.3	3174.8	3188.4	3201.9	3212.1	3207.0	3208.7	3193.5	3190.1	3178.2	3163.0	7.5°
10°	3281.6	3318.8	3344.3	3368.0	3369.7	3364.6	3366.3	3340.9	3335.8	3312.1	3296.8	10°
12.5°	3405.2	3452.7	3493.3	3518.8	3534.0	3537.4	3539.1	3539.1	3515.4	3495.0	3459.5	12.5°
15°	3588.2	3671.2	3733.9	3761.0	3783.0	3803.4	3808.5	3815.2	3796.6	3769.5	3764.4	15°
17.5°	3877.9	3955.8	4038.9	4111.7	4160.8	4164.2	4206.6	4203.2	4242.2	4211.7	4203.2	17.5°
20°	4221.8	4391.2	4477.6	4574.2	4630.1	4657.2	4755.5	4725.0	4753.8	4802.9	4753.8	20°
22.5°	4652.1	4867.3	4992.7	5124.8	5216.3	5282.4	5353.5	5409.4	5487.4	5524.6	5490.7	22.5°
25°	5223.1	5468.7	5617.8	5800.8	5946.5	6065.1	6188.7	6337.8	6336.1	6425.9	6488.6	25°
27.5°	5878.7	6192.1	6409.0	6730.9	6856.2	7056.1	7267.9	7498.3	7539.0	7655.9	7715.2	27.5°
30°	6495.4	6883.3	7313.7	7696.5	8130.2	8426.7	8672.4	8835.0	9080.7	9019.7	8985.8	30°
32.5°	7064.6	7581.3	8194.6	8823.1	9511.0	9980.2	10413.9	10615.6	10768.0	10444.4	10015.8	32.5°
35°	7803.3	8421.6	9123.0	9898.9	10773.1	11438.9	11886.2	11948.8	11862.4	11447.4	10737.5	35°
37.5°	8718.1	9367.0	10164.9	10984.9	11913.3	12538.4	13048.4	13139.8	12911.1	12170.8	11425.4	37.5°
40°	9621.1	10381.8	11247.5	12218.2	13180.5	13868.3	14380.0	14407.1	14034.3	13168.6	12296.1	40°
42.5°	10608.8	11440.6	12404.6	13480.4	14474.8	15171.1	15540.4	15657.3	15130.5	14020.8	13183.9	42.5°
45°	11460.9	12455.4	13529.5	14673.0	15713.3	16374.0	16750.1	16712.8	16075.8	14979.7	13998.8	45°
47.5°	12291.1	13385.5	14517.2	15731.9	16765.3	17432.8	17819.1	17785.2	16977.1	15714.9	14635.8	47.5°
50°	13029.7	14217.3	15426.9	16724.7	17754.7	18366.3	18839.0	18689.9	17668.3	16306.2	15045.8	50°
52.5°	13543.0	14867.9	16131.7	17534.5	18595.0	19174.4	19775.8	19296.4	18076.6	16668.8	15266.0	52.5°
55°	13868.3	15315.1	16633.2	18185.0	19226.9	19919.8	20307.8	19626.7	18234.1	16768.7	15342.2	55°
57.5°	14088.6	15560.8	16928.0	18561.1	19796.2	20377.3	20472.1	19638.6	18132.5	16611.2	15266.0	57.5°
60°	14197.0	15633.6	17061.8	18825.4	20196.0	20514.5	20341.7	19364.1	17781.8	16148.6	14774.7	60°
62.5°	14185.1	15542.1	16992.3	18913.5	20275.6	20316.3	19923.2	18896.6	17136.3	15177.9	13958.1	62.5°
65°	13883.6	15208.4	16601.0	18586.5	19904.6	19730.1	19235.4	18019.0	15881.0	13910.7	13294.0	65°
67.5°	13014.5	14285.1	15577.7	17515.8	18859.3	18689.9	17941.1	16294.3	14422.3	12789.1	12457.1	67.5°
70°	11560.9	12638.4	13773.4	15476.1	16885.6	16656.9	15347.3	14346.1	12977.2	11493.1	11377.9	70°
72.5°	9665.1	10481.7	11305.1	12572.3	13543.0	13075.5	12252.1	12199.6	11093.3	9959.9	9983.6	72.5°
75°	7559.3	8172.6	8557.2	9302.6	9948.1	9529.6	9578.7	9870.1	9505.9	8613.1	8323.4	75°
77.5°	5477.2	6065.1	6187.0	6629.2	7083.2	7559.3	8189.5	8875.7	8990.9	8489.4	7439.0	77.5°
80°	3584.8	4232.0	3991.4	4149.0	4787.7	5656.8	6807.1	7937.1	8325.1	7874.4	6581.8	80°
82.5°	2114.3	3020.7	2637.8	2907.2	3312.1	4069.4	4863.9	5716.1	6364.9	5885.5	5497.5	82.5°
85°	1606.1	2382.0	2522.6	2849.6	2981.7	3013.9	3152.8	3430.7	3766.1	3891.5	3881.3	85°
87.5°	836.9	1851.7	2078.7	1922.9	1794.1	1555.2	1213.0	1306.2	1194.4	1633.2	1546.8	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: P159166

NUMBER: VST-F10-LED-E-U-SLR-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2830.9	2830.9	2830.9	2830.9	2830.9	2830.9	2830.9
2995.3	2990.2	2993.6	2995.3	2995.3	2995.3	2998.6
3064.7	3051.2	3046.1	3046.1	3044.4	3039.3	3037.6
3139.3	3115.5	3107.1	3096.9	3088.4	3083.4	3074.9
3273.1	3252.8	3210.4	3186.7	3164.7	3149.4	3135.9
3452.7	3423.9	3383.2	3352.7	3318.8	3308.7	3291.7
3730.5	3705.1	3669.5	3635.6	3615.3	3579.7	3554.3
4164.2	4113.4	4077.8	4033.8	3984.6	3911.8	3876.2
4735.2	4633.5	4562.3	4523.4	4425.1	4413.3	4326.9
5390.8	5360.3	5251.9	5204.4	5109.6	5072.3	4936.8
6371.7	6348.0	6126.1	6102.3	5956.6	5848.2	5638.1
7661.0	7466.1	7215.4	7040.9	6791.9	6512.3	6154.9
8787.6	8389.4	8006.6	7600.0	7256.0	6854.5	6449.6
9505.9	8972.2	8479.2	8062.5	7637.2	7159.5	6639.4
10136.1	9597.4	9060.3	8567.3	8052.3	7440.7	6798.6
10890.0	10354.7	9749.8	9056.9	8396.2	7647.4	6863.0
11662.5	11035.7	10280.1	9431.3	8601.2	7749.0	6851.1
12453.7	11652.4	10647.7	9680.4	8731.7	7764.3	6771.5
13095.8	12082.7	10920.5	9807.4	8758.8	7711.8	6671.6
13549.8	12358.8	11042.5	9851.5	8724.9	7628.8	6536.0
13809.0	12509.6	11073.0	9819.3	8655.4	7510.2	6388.6
13903.9	12555.4	11042.5	9753.2	8592.7	7383.1	6285.3
13893.7	12529.9	10930.7	9599.1	8425.0	7213.7	6158.2
13702.3	12294.5	10702.0	9414.4	8282.7	7135.8	6166.7
13377.0	12145.4	10634.2	9451.7	8357.2	7303.5	6434.4
13229.6	12443.5	11015.4	9824.4	8740.1	7782.9	6986.7
13146.6	12928.1	11560.9	10225.9	9194.2	8364.0	7645.7
12807.8	13067.0	11870.9	10454.6	9599.1	8946.8	8304.7
12260.6	12743.4	11635.4	10410.6	9822.7	9394.1	8541.9
11118.7	11628.7	10586.8	9761.7	9543.2	9400.8	8186.1
9007.8	9272.1	8679.1	8492.8	8574.1	8575.8	6866.4
6642.8	6483.5	6215.8	6229.4	6776.6	6691.9	4894.4
5423.0	4438.7	4059.2	4203.2	4879.2	4514.9	3074.9
5046.9	3959.2	3268.0	3301.9	3684.8	2908.9	1851.7
4081.2	3608.5	2893.6	2597.1	2520.9	1938.1	1257.1
1707.7	1570.5	1169.0	1053.8	864.0	528.6	240.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)