

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: P159165

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159165
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (70) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22184.2 lumens
Efficiency: N/A
Efficacy: 85.8 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



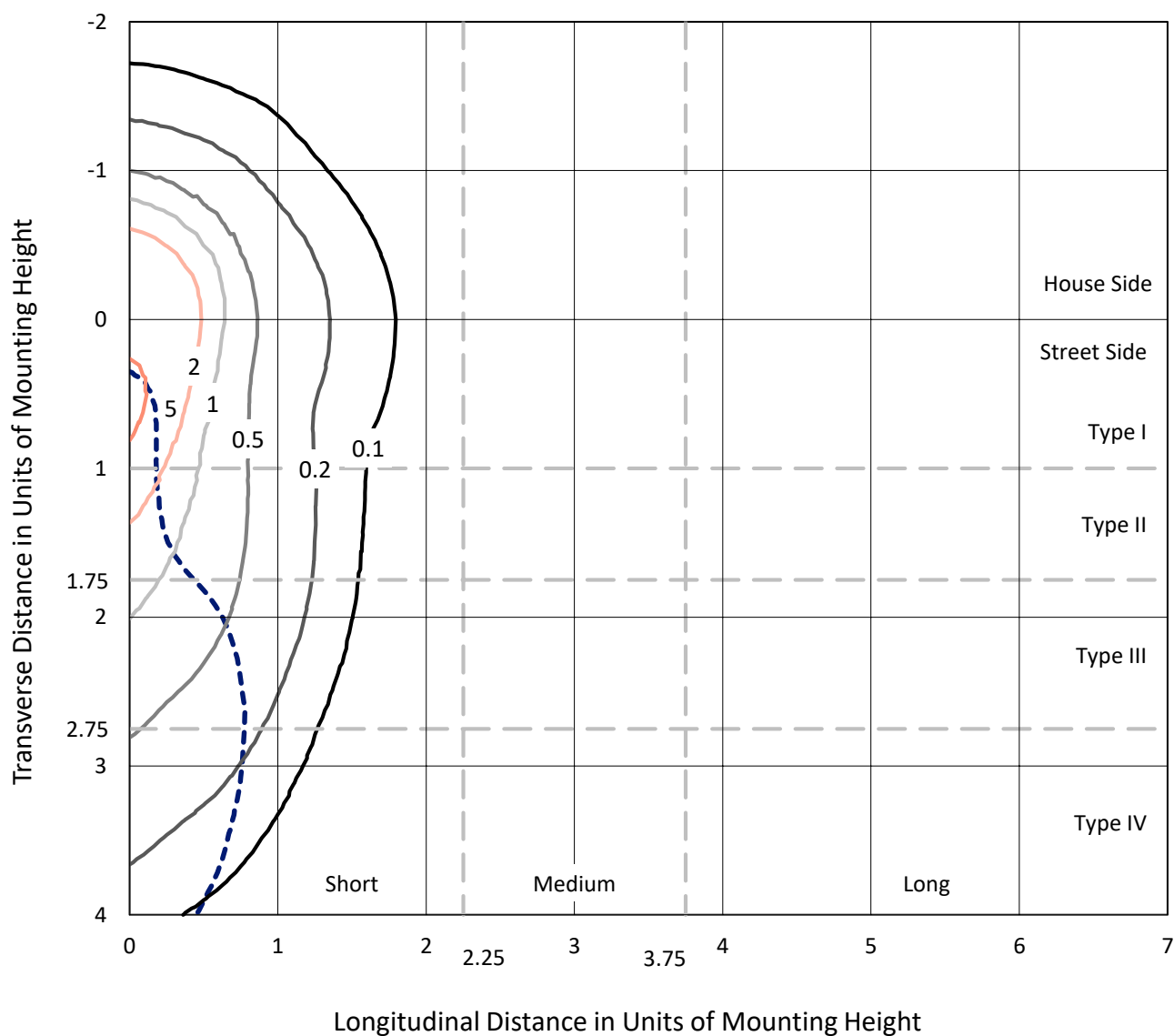
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

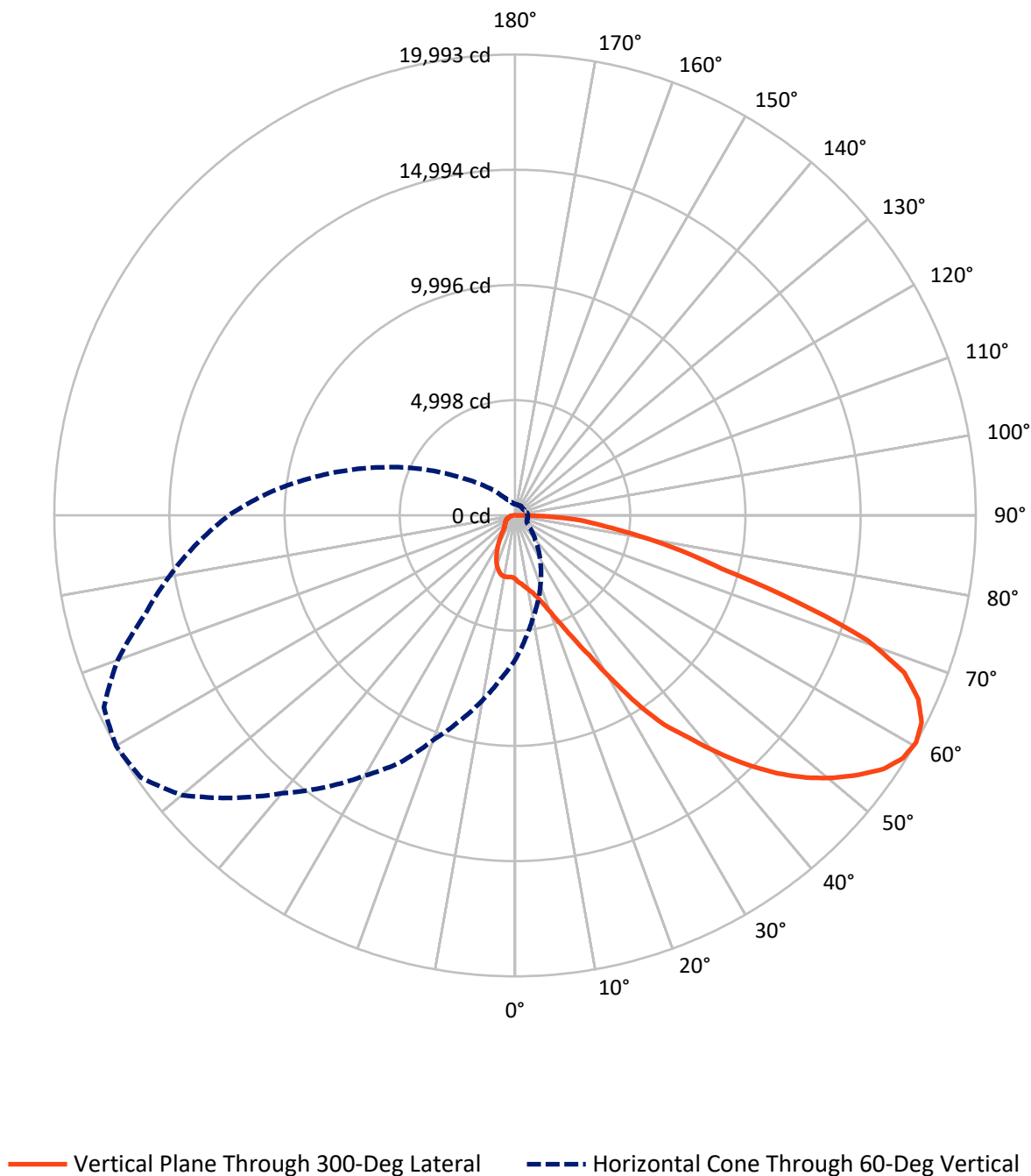


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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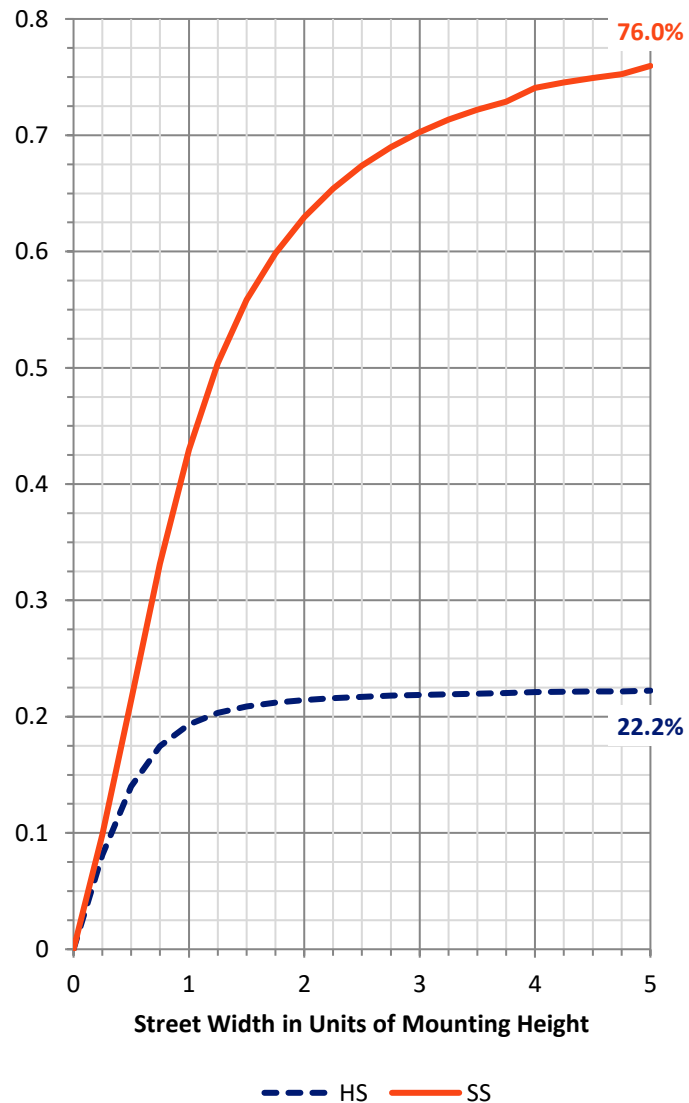
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4995.2	0.0	4995.2
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	17189.0	0.0	17189.0
	% Fixture	77.5	0.0	77.5
Total	Lumens	22184.2	0.0	22184.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	1.2
10°-20°	878.8	4.0
20°-30°	1667.7	7.5
30°-40°	2626.3	11.8
40°-50°	3665.6	16.5
50°-60°	4533.5	20.4
60°-70°	4699.2	21.2
70°-80°	2956.9	13.3
80°-90°	883.9	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°	22184.2	100.0
0°-180°	22184.2	100.0

Coefficient of Utilization



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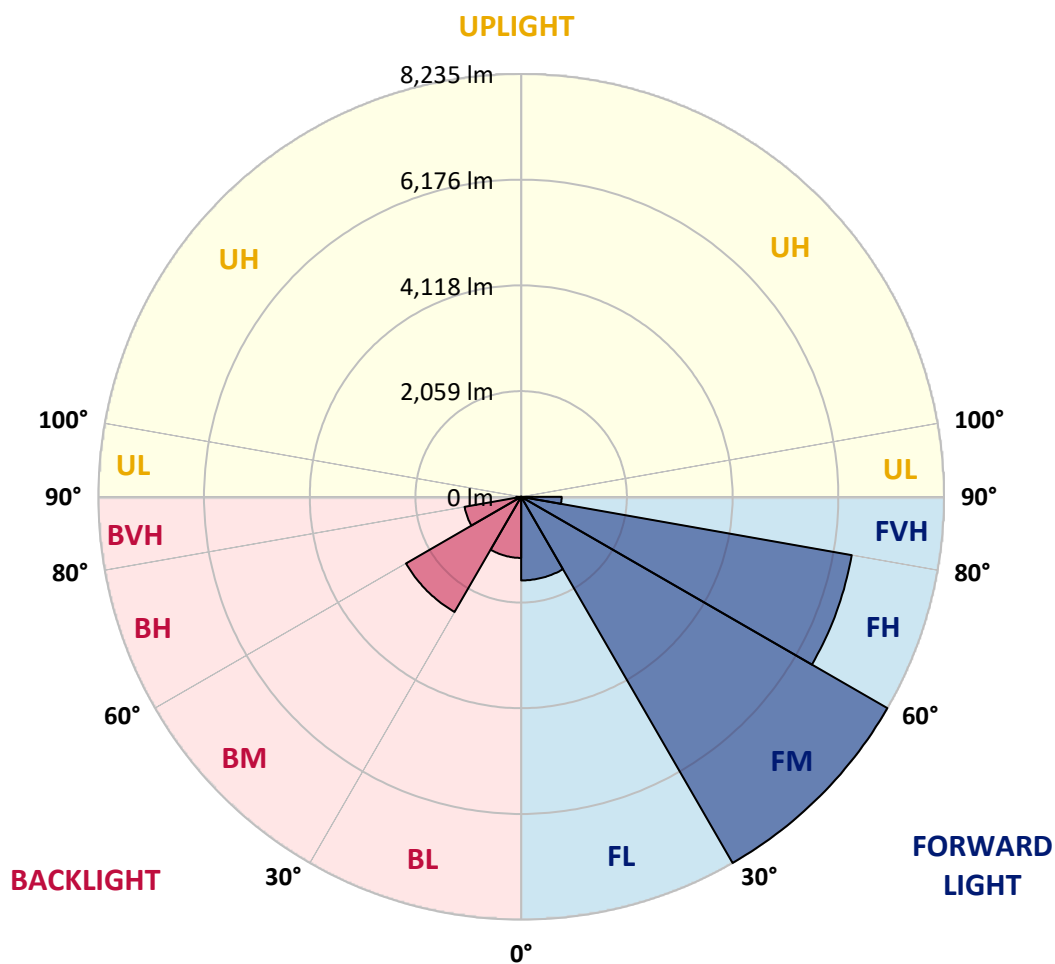
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1628.6	7.3			
FM	(30°-60°)	8235.1	37.1			
FH	(60°-80°)	6537.5	29.5			G3/7500
FVH	(80°-90°)	787.7	3.6			G5
BL	(0°-30°)	1190.0	5.4	B3/2500		
BM	(30°-60°)	2590.3	11.7	B3/5000		
BH	(60°-80°)	1118.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	96.2	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°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2922.4	2747.3	2750.6	2745.7	2745.7	2742.4	2745.7	2742.4	2739.1	2739.1	2740.7
5°	2960.3	2767.2	2767.2	2762.2	2758.9	2755.6	2758.9	2755.6	2754.0	2750.6	2752.3
7.5°	2996.7	2778.7	2772.1	2765.5	2757.3	2760.6	2760.6	2758.9	2760.6	2758.9	2762.2
10°	3056.1	2816.7	2800.2	2785.3	2783.7	2780.4	2780.4	2775.4	2775.4	2772.1	2773.8
12.5°	3208.0	2933.9	2915.8	2889.3	2884.4	2869.5	2861.3	2851.4	2834.9	2820.0	2808.4
15°	3463.9	3128.7	3094.1	3071.0	3061.0	3031.3	2985.1	2948.8	2900.9	2859.6	2816.7
17.5°	3777.6	3389.6	3348.3	3318.6	3269.1	3188.2	3110.6	3021.4	2929.0	2844.8	2767.2
20°	4216.8	3764.4	3683.5	3612.5	3488.7	3350.0	3204.7	3049.5	2907.5	2775.4	2661.5
22.5°	4811.2	4248.2	4097.9	3908.0	3678.5	3444.1	3212.9	2998.3	2808.4	2636.7	2484.8
25°	5494.7	4710.4	4439.7	4112.8	3761.1	3437.5	3133.7	2858.0	2636.7	2415.5	2250.4
27.5°	5998.3	5096.8	4697.2	4268.0	3818.9	3406.1	3033.0	2699.5	2432.0	2205.8	2006.0
30°	6285.5	5318.0	4837.6	4334.0	3828.8	3353.3	2905.8	2519.5	2210.8	1941.6	1750.1
32.5°	6470.5	5436.9	4852.4	4268.0	3709.9	3196.4	2712.7	2311.5	1976.3	1689.0	1485.9
35°	6625.7	5484.8	4783.1	4121.0	3485.4	2958.7	2465.0	2063.8	1708.8	1444.7	1236.6
37.5°	6688.4	5476.5	4672.5	3924.5	3265.8	2699.5	2212.4	1801.3	1484.3	1251.5	1073.2
40°	6676.8	5400.6	4522.2	3714.9	3008.2	2428.7	1944.9	1583.4	1325.8	1129.3	998.9
42.5°	6599.2	5299.9	4355.5	3501.9	2772.1	2204.2	1763.3	1443.0	1235.0	1086.4	972.5
45°	6501.8	5179.3	4203.6	3307.1	2585.5	2044.0	1657.7	1403.4	1223.4	1081.4	959.3
47.5°	6369.8	5045.6	4050.0	3168.4	2486.5	1996.1	1656.0	1426.5	1233.3	1069.9	936.1
50°	6226.1	4948.2	3965.8	3108.9	2474.9	2025.8	1713.8	1462.8	1239.9	1058.3	904.8
52.5°	6125.4	4905.3	3964.2	3130.4	2536.0	2108.4	1781.5	1509.1	1264.7	1064.9	898.2
55°	6001.6	4898.7	4007.1	3222.8	2669.7	2248.7	1888.8	1588.3	1315.9	1089.7	903.1
57.5°	6009.8	5029.1	4173.9	3450.7	2910.8	2438.6	2025.8	1685.7	1365.4	1104.6	894.9
60°	6270.7	5332.9	4502.4	3840.3	3226.2	2661.5	2166.2	1738.6	1362.1	1071.5	855.2
62.5°	6808.9	5788.6	4994.4	4297.7	3546.5	2833.2	2217.4	1723.7	1312.6	1000.5	790.9
65°	7451.2	6321.9	5473.2	4652.7	3741.3	2872.8	2172.8	1641.1	1213.5	908.1	713.3
67.5°	8093.4	6700.0	5749.0	4753.4	3662.0	2712.7	2007.7	1456.2	1045.1	782.6	625.7
70°	8324.6	6777.6	5727.5	4527.2	3302.1	2314.8	1652.7	1172.2	838.7	640.6	526.7
72.5°	7977.9	6292.2	5091.8	3846.9	2684.6	1794.7	1211.9	865.2	640.6	501.9	429.3
75°	6691.7	5067.1	4025.3	2897.6	1938.3	1269.7	875.1	630.7	482.1	397.9	343.4
77.5°	4769.9	3528.3	2742.4	1903.7	1258.1	880.0	627.4	473.9	383.0	318.7	279.0
80°	2996.7	2166.2	1670.9	1142.5	784.2	597.7	450.7	374.8	308.7	259.2	232.8
82.5°	1804.6	1261.4	984.0	710.0	515.1	409.5	331.9	293.9	246.0	214.6	199.8
85°	1225.1	927.9	645.6	419.4	310.4	241.1	226.2	203.1	183.3	153.5	148.6
87.5°	234.4	331.9	288.9	171.7	113.9	97.4	85.9	82.6	74.3	59.4	67.7
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°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2730.8	2727.5	2720.9	2720.9	2716.0	2706.1	2704.4	2697.8	2689.6	2691.2	2689.6
5°	2740.7	2734.1	2725.9	2722.6	2716.0	2706.1	2701.1	2692.9	2684.6	2684.6	2684.6
7.5°	2752.3	2744.0	2737.4	2725.9	2712.7	2702.8	2689.6	2679.7	2674.7	2673.0	2674.7
10°	2762.2	2757.3	2747.3	2730.8	2712.7	2692.9	2679.7	2666.4	2653.2	2654.9	2656.5
12.5°	2783.7	2767.2	2740.7	2716.0	2687.9	2663.1	2640.0	2623.5	2607.0	2607.0	2608.7
15°	2768.8	2720.9	2684.6	2636.7	2605.4	2565.7	2539.3	2524.5	2514.5	2511.2	2512.9
17.5°	2681.3	2623.5	2569.0	2526.1	2483.2	2451.8	2440.3	2430.3	2417.1	2423.7	2417.1
20°	2549.2	2478.2	2400.6	2349.4	2298.3	2276.8	2257.0	2247.1	2238.8	2268.5	2268.5
22.5°	2359.4	2273.5	2194.2	2131.5	2073.7	2050.6	2030.8	2019.2	2024.2	2060.5	2063.8
25°	2119.9	2015.9	1911.9	1873.9	1816.2	1798.0	1786.4	1784.8	1789.7	1826.1	1834.3
27.5°	1865.7	1756.7	1667.6	1580.1	1553.6	1538.8	1517.3	1542.1	1547.0	1586.7	1603.2
30°	1594.9	1477.7	1383.6	1325.8	1269.7	1277.9	1259.8	1289.5	1302.7	1344.0	1357.2
32.5°	1317.5	1206.9	1112.8	1055.0	1015.4	1020.3	1007.1	1033.6	1046.8	1096.3	1121.1
35°	1089.7	995.6	919.6	870.1	851.9	833.8	830.5	833.8	847.0	885.0	929.5
37.5°	959.3	881.7	827.2	790.9	766.1	754.5	747.9	747.9	747.9	756.2	777.6
40°	903.1	833.8	785.9	751.2	734.7	728.1	723.2	718.2	710.0	706.6	708.3
42.5°	878.4	799.1	747.9	721.5	711.6	711.6	711.6	708.3	700.0	691.8	683.5
45°	853.6	767.7	716.6	698.4	693.4	695.1	695.1	695.1	688.5	678.6	663.7
47.5°	822.2	733.1	681.9	670.3	670.3	675.3	676.9	676.9	670.3	660.4	648.9
50°	784.2	688.5	642.3	632.4	627.4	627.4	627.4	627.4	622.4	615.8	607.6
52.5°	764.4	663.7	615.8	605.9	605.9	601.0	599.3	594.4	589.4	584.5	572.9
55°	757.8	653.8	604.3	596.0	596.0	591.1	586.1	581.2	572.9	564.7	553.1
57.5°	739.7	632.4	589.4	582.8	582.8	579.5	574.6	569.6	561.4	549.8	534.9
60°	698.4	596.0	559.7	558.1	558.1	556.4	553.1	553.1	544.8	533.3	515.1
62.5°	645.6	558.1	523.4	523.4	521.7	520.1	513.5	511.8	501.9	487.1	470.5
65°	594.4	525.0	501.9	495.3	492.0	487.1	483.8	475.5	467.2	454.0	437.5
67.5°	530.0	475.5	460.6	454.0	447.4	442.5	437.5	432.6	422.7	412.8	399.6
70°	460.6	421.0	412.8	411.1	402.9	397.9	396.3	391.3	381.4	371.5	355.0
72.5°	394.6	371.5	364.9	364.9	355.0	348.4	345.1	343.4	336.8	328.6	313.7
75°	318.7	302.1	300.5	308.7	308.7	303.8	300.5	303.8	293.9	288.9	274.1
77.5°	260.9	252.6	247.7	251.0	260.9	255.9	249.3	249.3	249.3	241.1	236.1
80°	221.2	214.6	209.7	213.0	211.3	209.7	206.4	199.8	199.8	199.8	198.1
82.5°	199.8	198.1	180.0	180.0	173.4	168.4	165.1	161.8	158.5	158.5	166.8
85°	150.2	155.2	145.3	143.6	135.4	128.8	122.2	118.9	115.6	120.5	137.0
87.5°	72.6	72.6	69.3	77.6	71.0	67.7	62.7	59.4	62.7	77.6	92.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2686.3	2684.6	2683.0	2679.7	2673.0	2671.4	2668.1	2668.1	2666.4	2663.1	2666.4
5°	2681.3	2684.6	2684.6	2683.0	2678.0	2681.3	2681.3	2686.3	2686.3	2689.6	2697.8
7.5°	2674.7	2683.0	2689.6	2694.5	2701.1	2706.1	2716.0	2730.8	2737.4	2749.0	2754.0
10°	2661.5	2676.4	2687.9	2702.8	2719.3	2737.4	2752.3	2775.4	2783.7	2800.2	2808.4
12.5°	2623.5	2648.3	2668.1	2697.8	2725.9	2754.0	2780.4	2810.1	2824.9	2843.1	2854.7
15°	2531.1	2559.1	2587.2	2613.6	2663.1	2717.6	2760.6	2800.2	2821.6	2844.8	2856.3
17.5°	2420.4	2438.6	2461.7	2496.4	2544.3	2592.1	2661.5	2717.6	2750.6	2777.1	2780.4
20°	2291.7	2318.1	2334.6	2347.8	2385.8	2418.8	2493.1	2557.5	2600.4	2631.8	2640.0
22.5°	2095.2	2123.3	2151.3	2161.2	2190.9	2233.9	2275.1	2344.5	2405.6	2451.8	2479.9
25°	1870.6	1897.1	1935.0	1964.7	1971.4	2006.0	2047.3	2126.6	2189.3	2263.6	2296.6
27.5°	1646.1	1669.2	1710.5	1727.0	1746.8	1781.5	1814.5	1880.5	1946.6	2032.4	2068.8
30°	1383.6	1433.1	1481.0	1512.4	1528.9	1570.1	1593.3	1657.7	1718.7	1781.5	1834.3
32.5°	1159.0	1203.6	1258.1	1297.7	1317.5	1348.9	1385.2	1439.7	1487.6	1548.7	1609.8
35°	952.7	1013.7	1050.1	1084.7	1135.9	1150.8	1187.1	1236.6	1264.7	1330.7	1400.1
37.5°	807.4	843.7	880.0	914.7	957.6	977.4	1012.1	1053.4	1086.4	1126.0	1188.8
40°	718.2	738.0	764.4	787.6	818.9	843.7	861.8	896.5	921.3	960.9	1005.5
42.5°	676.9	681.9	685.2	701.7	718.2	734.7	754.5	769.4	799.1	828.8	856.9
45°	653.8	643.9	639.0	640.6	647.2	657.1	673.6	690.1	710.0	728.1	744.6
47.5°	634.0	620.8	605.9	597.7	599.3	602.6	615.8	629.0	639.0	653.8	660.4
50°	587.8	576.2	563.0	551.5	553.1	554.8	566.3	576.2	582.8	587.8	596.0
52.5°	558.1	541.5	530.0	518.4	516.8	521.7	531.6	541.5	544.8	548.1	549.8
55°	536.6	520.1	505.2	493.7	488.7	500.3	503.6	516.8	521.7	521.7	523.4
57.5°	520.1	500.3	485.4	473.9	465.6	473.9	482.1	497.0	498.6	495.3	495.3
60°	495.3	480.5	465.6	454.0	445.8	452.4	459.0	475.5	475.5	467.2	465.6
62.5°	452.4	444.1	434.2	429.3	427.6	434.2	439.2	452.4	447.4	437.5	434.2
65°	421.0	414.4	404.5	401.2	399.6	409.5	411.1	419.4	412.8	407.8	406.2
67.5°	383.0	378.1	373.1	371.5	366.5	366.5	369.8	374.8	371.5	371.5	373.1
70°	340.1	333.5	328.6	330.2	326.9	326.9	328.6	331.9	330.2	333.5	336.8
72.5°	300.5	292.2	290.6	290.6	287.3	288.9	288.9	290.6	293.9	295.5	303.8
75°	262.5	254.3	254.3	252.6	252.6	252.6	254.3	257.6	260.9	262.5	265.8
77.5°	227.8	222.9	224.5	222.9	222.9	222.9	222.9	227.8	229.5	231.1	236.1
80°	196.5	196.5	198.1	198.1	196.5	194.8	196.5	199.8	201.4	203.1	204.7
82.5°	178.3	180.0	180.0	180.0	171.7	168.4	173.4	176.7	180.0	181.6	184.9
85°	153.5	146.9	153.5	151.9	140.3	138.7	138.7	140.3	143.6	140.3	140.3
87.5°	99.1	89.2	94.1	94.1	82.6	67.7	85.9	92.5	82.6	87.5	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



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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2671.4	2668.1	2669.7	2669.7	2673.0	2668.1	2674.7	2681.3	2683.0	2683.0	2684.6
5°	2706.1	2702.8	2714.3	2709.4	2720.9	2719.3	2727.5	2734.1	2737.4	2737.4	2737.4
7.5°	2760.6	2772.1	2778.7	2796.9	2798.5	2808.4	2816.7	2824.9	2821.6	2823.3	2821.6
10°	2821.6	2836.5	2853.0	2871.2	2872.8	2884.4	2897.6	2905.8	2902.5	2900.9	2895.9
12.5°	2874.5	2884.4	2904.2	2922.4	2932.3	2950.4	2963.6	2970.2	2970.2	2965.3	2960.3
15°	2871.2	2886.0	2907.5	2933.9	2952.1	2978.5	3001.6	3016.5	3018.1	3013.2	3011.5
17.5°	2798.5	2820.0	2839.8	2876.1	2909.1	2945.5	2983.4	3004.9	3024.7	3036.3	3042.9
20°	2668.1	2694.5	2722.6	2770.5	2815.0	2862.9	2907.5	2938.9	2968.6	3003.3	3044.5
22.5°	2514.5	2554.2	2593.8	2654.9	2709.4	2763.9	2815.0	2853.0	2899.2	2958.7	3036.3
25°	2334.6	2375.9	2425.4	2496.4	2565.7	2645.0	2720.9	2796.9	2886.0	2988.4	3108.9
27.5°	2121.6	2167.8	2232.2	2318.1	2397.3	2478.2	2597.1	2717.6	2862.9	2995.0	3132.0
30°	1910.3	1969.7	2039.0	2124.9	2204.2	2319.7	2438.6	2587.2	2740.7	2889.3	3052.8
32.5°	1682.4	1756.7	1842.6	1913.6	2002.7	2119.9	2238.8	2397.3	2560.8	2735.8	2915.8
35°	1462.8	1533.8	1601.5	1680.8	1769.9	1880.5	1996.1	2148.0	2354.4	2541.0	2755.6
37.5°	1239.9	1306.0	1353.9	1416.6	1494.2	1616.4	1740.2	1915.2	2110.0	2339.5	2554.2
40°	1045.1	1099.6	1154.1	1203.6	1269.7	1385.2	1517.3	1689.0	1880.5	2103.4	2342.8
42.5°	889.9	931.2	990.6	1050.1	1106.2	1205.3	1329.1	1497.5	1687.4	1915.2	2154.6
45°	759.5	787.6	835.4	885.0	954.3	1036.9	1155.7	1327.4	1520.6	1750.1	2002.7
47.5°	665.4	678.6	711.6	762.8	827.2	908.1	1010.4	1165.6	1353.9	1585.0	1850.8
50°	601.0	615.8	632.4	675.3	733.1	815.6	899.8	1035.2	1206.9	1433.1	1697.3
52.5°	556.4	563.0	569.6	596.0	648.9	718.2	807.4	909.7	1083.1	1299.4	1537.1
55°	530.0	531.6	536.6	549.8	589.4	653.8	731.4	828.8	964.2	1168.9	1411.6
57.5°	498.6	501.9	506.9	515.1	539.9	597.7	663.7	743.0	855.2	1027.0	1259.8
60°	468.9	477.2	485.4	490.4	503.6	538.2	594.4	657.1	747.9	876.7	1061.6
62.5°	437.5	447.4	454.0	459.0	463.9	485.4	526.7	568.0	624.1	708.3	847.0
65°	409.5	416.1	421.0	424.3	427.6	434.2	452.4	468.9	485.4	536.6	637.3
67.5°	378.1	381.4	383.0	384.7	383.0	383.0	384.7	391.3	397.9	417.7	465.6
70°	341.8	346.7	346.7	348.4	348.4	343.4	343.4	343.4	343.4	348.4	374.8
72.5°	307.1	313.7	313.7	315.4	313.7	312.0	312.0	312.0	317.0	320.3	330.2
75°	274.1	280.7	279.0	280.7	282.3	282.3	285.6	287.3	292.2	293.9	300.5
77.5°	241.1	246.0	247.7	246.0	249.3	252.6	259.2	262.5	264.2	265.8	267.5
80°	209.7	213.0	211.3	206.4	214.6	219.6	229.5	241.1	237.8	239.4	242.7
82.5°	173.4	168.4	165.1	168.4	173.4	180.0	189.9	204.7	206.4	214.6	213.0
85°	133.7	118.9	117.2	125.5	123.8	132.1	148.6	160.2	170.1	178.3	170.1
87.5°	79.3	71.0	59.4	56.1	61.1	80.9	84.2	102.4	110.6	113.9	102.4
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: P159165

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2834.9	2843.1	2843.1	2846.4	2851.4	2853.0	2859.6	2871.2	2872.8	2872.8	2877.8
5°	2887.7	2895.9	2895.9	2902.5	2904.2	2912.5	2920.7	2933.9	2940.5	2938.9	2960.3
7.5°	2973.5	2966.9	2962.0	2971.9	2976.8	2986.7	3003.3	3014.8	3026.4	3044.5	3074.3
10°	3046.2	3036.3	3031.3	3037.9	3041.2	3052.8	3062.7	3079.2	3107.3	3135.3	3171.7
12.5°	3105.6	3094.1	3080.9	3084.2	3089.1	3104.0	3120.5	3141.9	3183.2	3219.5	3274.0
15°	3155.2	3138.6	3125.4	3132.0	3143.6	3163.4	3191.5	3229.5	3297.1	3359.9	3432.5
17.5°	3203.0	3199.7	3194.8	3216.2	3224.5	3270.7	3312.0	3381.4	3473.8	3567.9	3671.9
20°	3249.3	3285.6	3303.8	3346.7	3373.1	3435.8	3498.6	3582.8	3700.0	3828.8	3970.8
22.5°	3313.7	3412.7	3473.8	3561.3	3605.9	3673.6	3766.0	3876.7	4007.1	4172.2	4353.8
25°	3467.2	3612.5	3734.7	3871.7	3984.0	4088.0	4198.6	4332.4	4520.6	4670.8	4908.6
27.5°	3534.9	3739.6	3922.9	4116.1	4284.5	4444.6	4619.6	4781.4	5004.3	5207.4	5494.7
30°	3470.5	3701.7	3939.4	4192.0	4438.0	4680.7	4935.0	5182.6	5440.2	5724.2	6029.6
32.5°	3351.6	3610.8	3878.3	4175.5	4480.9	4796.3	5126.5	5486.4	5849.7	6203.0	6515.0
35°	3231.1	3510.1	3807.3	4147.4	4507.4	4898.7	5308.1	5763.8	6244.3	6691.7	7099.5
37.5°	3056.1	3363.2	3703.3	4096.3	4523.9	5006.0	5532.7	6094.0	6701.6	7317.5	7852.4
40°	2844.8	3170.0	3541.5	3993.9	4507.4	5116.6	5801.8	6521.6	7302.6	8053.8	8710.9
42.5°	2651.6	2968.6	3364.8	3856.9	4464.4	5214.0	6057.7	6954.2	7878.8	8719.2	9577.7
45°	2481.5	2831.6	3229.5	3761.1	4443.0	5296.6	6247.6	7277.8	8336.2	9336.7	10350.4
47.5°	2326.3	2689.6	3135.3	3708.3	4433.1	5346.1	6379.7	7489.2	8661.4	9810.5	10987.7
50°	2166.2	2519.5	2996.7	3650.5	4408.3	5344.4	6449.0	7632.8	8889.3	10178.7	11426.9
52.5°	1994.5	2349.4	2828.2	3544.8	4355.5	5314.7	6467.2	7730.2	9069.2	10404.9	11800.1
55°	1837.6	2169.5	2648.3	3368.1	4244.8	5242.1	6425.9	7771.5	9196.3	10629.5	12062.6
57.5°	1657.7	2002.7	2458.4	3125.4	4036.8	5113.3	6308.7	7713.7	9232.7	10779.7	12270.6
60°	1410.0	1748.5	2217.4	2838.2	3711.6	4840.9	6090.7	7538.7	9117.1	10806.1	12419.2
62.5°	1126.0	1418.3	1870.6	2441.9	3254.2	4413.3	5687.9	7145.7	8757.2	10558.5	12343.2
65°	837.1	1031.9	1421.6	1923.5	2724.2	3769.3	5039.0	6487.0	8053.8	9870.0	11866.1
67.5°	582.8	723.2	962.6	1335.7	1981.3	2910.8	4112.8	5458.4	6965.8	8595.4	10875.5
70°	440.8	505.2	635.7	843.7	1282.9	1982.9	2990.1	4188.7	5587.2	7157.3	9305.3
72.5°	376.4	409.5	482.1	577.9	785.9	1205.3	1877.2	2882.7	4122.7	5400.6	7139.1
75°	338.5	366.5	412.8	473.9	556.4	731.4	1101.3	1824.4	2730.8	3617.5	4981.2
77.5°	307.1	331.9	373.1	404.5	449.1	526.7	701.7	1091.3	1636.2	2235.5	3090.8
80°	274.1	288.9	326.9	358.3	392.9	437.5	503.6	685.2	939.4	1324.1	1822.8
82.5°	234.4	246.0	274.1	317.0	343.4	361.6	381.4	454.0	563.0	718.2	1012.1
85°	181.6	189.9	214.6	246.0	257.6	259.2	262.5	282.3	350.0	538.2	871.8
87.5°	92.5	102.4	128.8	138.7	117.2	127.1	128.8	137.0	181.6	295.5	300.5
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: P159165
CATALOG NUMBER: VST-F10-LED-E-U-SLR

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	0°
2.5°	2877.8	2882.7	2894.3	2892.6	2900.9	2900.9	2900.9	2909.1	2904.2	2909.1	2917.4	2.5°
5°	2960.3	2968.6	2985.1	2985.1	2986.7	2981.8	2991.7	2998.3	2990.1	2986.7	2988.4	5°
7.5°	3080.9	3094.1	3107.3	3120.5	3130.4	3125.4	3127.1	3112.2	3108.9	3097.4	3082.5	7.5°
10°	3198.1	3234.4	3259.2	3282.3	3283.9	3279.0	3280.6	3255.9	3250.9	3227.8	3212.9	10°
12.5°	3318.6	3364.8	3404.5	3429.2	3444.1	3447.4	3449.0	3449.0	3425.9	3406.1	3371.4	12.5°
15°	3496.9	3577.8	3638.9	3665.3	3686.8	3706.6	3711.6	3718.2	3700.0	3673.6	3668.6	15°
17.5°	3779.3	3855.2	3936.1	4007.1	4055.0	4058.3	4099.6	4096.3	4134.2	4104.5	4096.3	17.5°
20°	4114.4	4279.5	4363.7	4457.8	4512.3	4538.7	4634.5	4604.8	4632.8	4680.7	4632.8	20°
22.5°	4533.8	4743.5	4865.6	4994.4	5083.6	5148.0	5217.3	5271.8	5347.8	5384.1	5351.1	22.5°
25°	5090.2	5329.6	5474.9	5653.2	5795.2	5910.8	6031.3	6176.6	6174.9	6262.4	6323.5	25°
27.5°	5729.1	6034.6	6245.9	6559.6	6681.8	6876.6	7083.0	7307.5	7347.2	7461.1	7518.9	27.5°
30°	6330.1	6708.2	7127.6	7500.7	7923.4	8212.3	8451.7	8610.2	8849.6	8790.2	8757.2	30°
32.5°	6884.9	7388.4	7986.1	8598.7	9269.0	9726.3	10149.0	10345.5	10494.1	10178.7	9761.0	32.5°
35°	7604.7	8207.4	8890.9	9647.1	10499.0	11147.9	11583.8	11644.9	11560.7	11156.1	10464.4	35°
37.5°	8496.3	9128.7	9906.3	10705.4	11610.2	12219.4	12716.4	12805.5	12582.7	11861.1	11134.7	37.5°
40°	9376.3	10117.6	10961.3	11907.4	12845.2	13515.5	14014.1	14040.5	13677.3	12833.6	11983.3	40°
42.5°	10338.9	11149.5	12089.0	13137.4	14106.6	14785.2	15145.1	15259.0	14745.5	13664.1	12848.5	42.5°
45°	11169.4	12138.5	13185.3	14299.7	15313.5	15957.4	16323.9	16287.6	15666.8	14598.6	13642.6	45°
47.5°	11978.4	13044.9	14147.8	15331.6	16338.8	16989.3	17365.7	17332.7	16545.2	15315.1	14263.4	47.5°
50°	12698.2	13855.6	15034.5	16299.2	17303.0	17899.0	18359.7	18214.4	17218.8	15891.4	14663.0	50°
52.5°	13198.5	14489.6	15721.3	17088.4	18121.9	18686.6	19272.7	18805.5	17616.7	16244.7	14877.6	52.5°
55°	13515.5	14925.5	16210.0	17722.4	18737.8	19413.0	19791.1	19127.4	17770.2	16342.1	14951.9	55°
57.5°	13730.1	15164.9	16497.3	18088.9	19292.5	19858.8	19951.3	19139.0	17671.2	16188.5	14877.6	57.5°
60°	13835.8	15235.9	16627.7	18346.5	19682.2	19992.6	19824.2	18871.5	17329.4	15737.8	14398.8	60°
62.5°	13824.2	15146.7	16560.0	18432.3	19759.8	19799.4	19416.3	18415.8	16700.4	14791.8	13603.0	62.5°
65°	13530.4	14821.5	16178.6	18113.7	19398.2	19228.1	18746.0	17560.6	15476.9	13556.8	12955.8	65°
67.5°	12683.4	13921.7	15181.4	17070.2	18379.5	18214.4	17484.6	15879.8	14055.4	12463.8	12140.2	67.5°
70°	11266.8	12316.8	13423.0	15082.3	16456.0	16233.1	14956.9	13981.1	12647.0	11200.7	11088.5	70°
72.5°	9419.2	10215.0	11017.5	12252.4	13198.5	12742.8	11940.4	11889.2	10811.1	9706.5	9729.6	72.5°
75°	7367.0	7964.7	8339.5	9065.9	9695.0	9287.2	9335.0	9619.0	9264.0	8393.9	8111.6	75°
77.5°	5337.8	5910.8	6029.6	6460.6	6903.0	7367.0	7981.2	8649.9	8762.1	8273.4	7249.8	77.5°
80°	3493.6	4124.3	3889.9	4043.4	4665.9	5512.9	6633.9	7735.2	8113.3	7674.1	6414.3	80°
82.5°	2060.5	2943.8	2570.7	2833.2	3227.8	3965.8	4740.2	5570.6	6203.0	5735.7	5357.7	82.5°
85°	1565.2	2321.4	2458.4	2777.1	2905.8	2937.2	3072.6	3343.4	3670.3	3792.5	3782.6	85°
87.5°	815.6	1804.6	2025.8	1873.9	1748.5	1515.7	1182.2	1273.0	1164.0	1591.6	1507.4	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: P159165

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

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2919.1	2914.1	2917.4	2919.1	2919.1	2919.1	2922.4
2986.7	2973.5	2968.6	2968.6	2966.9	2962.0	2960.3
3059.4	3036.3	3028.0	3018.1	3009.9	3004.9	2996.7
3189.8	3170.0	3128.7	3105.6	3084.2	3069.3	3056.1
3364.8	3336.8	3297.1	3267.4	3234.4	3224.5	3208.0
3635.6	3610.8	3576.2	3543.2	3523.3	3488.7	3463.9
4058.3	4008.7	3974.1	3931.1	3883.3	3812.3	3777.6
4614.7	4515.6	4446.3	4408.3	4312.5	4301.0	4216.8
5253.6	5223.9	5118.3	5072.0	4979.6	4943.2	4811.2
6209.6	6186.5	5970.2	5947.1	5805.1	5699.4	5494.7
7466.0	7276.2	7031.8	6861.8	6619.1	6346.6	5998.3
8564.0	8176.0	7802.9	7406.6	7071.4	6680.1	6285.5
9264.0	8744.0	8263.5	7857.3	7442.9	6977.3	6470.5
9878.2	9353.2	8829.8	8349.4	7847.4	7251.4	6625.7
10612.9	10091.2	9501.8	8826.5	8182.6	7452.8	6688.4
11365.8	10754.9	10018.6	9191.4	8382.4	7551.9	6676.8
12136.9	11355.9	10376.8	9434.1	8509.5	7566.8	6599.2
12762.6	11775.3	10642.7	9557.9	8535.9	7515.6	6501.8
13205.1	12044.4	10761.5	9600.9	8502.9	7434.7	6369.8
13457.7	12191.4	10791.3	9569.5	8435.2	7319.1	6226.1
13550.2	12235.9	10761.5	9505.1	8374.1	7195.3	6125.4
13540.3	12211.2	10652.6	9354.8	8210.7	7030.2	6001.6
13353.7	11981.7	10429.7	9174.9	8072.0	6954.2	6009.8
13036.7	11836.4	10363.6	9211.2	8144.6	7117.7	6270.7
12893.0	12127.0	10735.1	9574.4	8517.8	7584.9	6808.9
12812.1	12599.2	11266.8	9965.7	8960.2	8151.2	7451.2
12481.9	12734.5	11568.9	10188.6	9354.8	8719.2	8093.4
11948.6	12419.2	11339.4	10145.7	9572.8	9155.1	8324.6
10835.8	11332.8	10317.4	9513.3	9300.4	9161.7	7977.9
8778.6	9036.2	8458.3	8276.7	8356.0	8357.6	6691.7
6473.8	6318.6	6057.7	6070.9	6604.2	6521.6	4769.9
5285.0	4325.8	3955.9	4096.3	4755.0	4400.0	2996.7
4918.5	3858.5	3184.9	3217.9	3591.0	2834.9	1804.6
3977.4	3516.7	2820.0	2531.1	2456.8	1888.8	1225.1
1664.3	1530.5	1139.2	1027.0	842.0	515.1	234.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)