

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: P158014

Luminaire Tested: **VST-F05-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158014
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F05-LED-E-U-RW-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11745 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 133.3
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

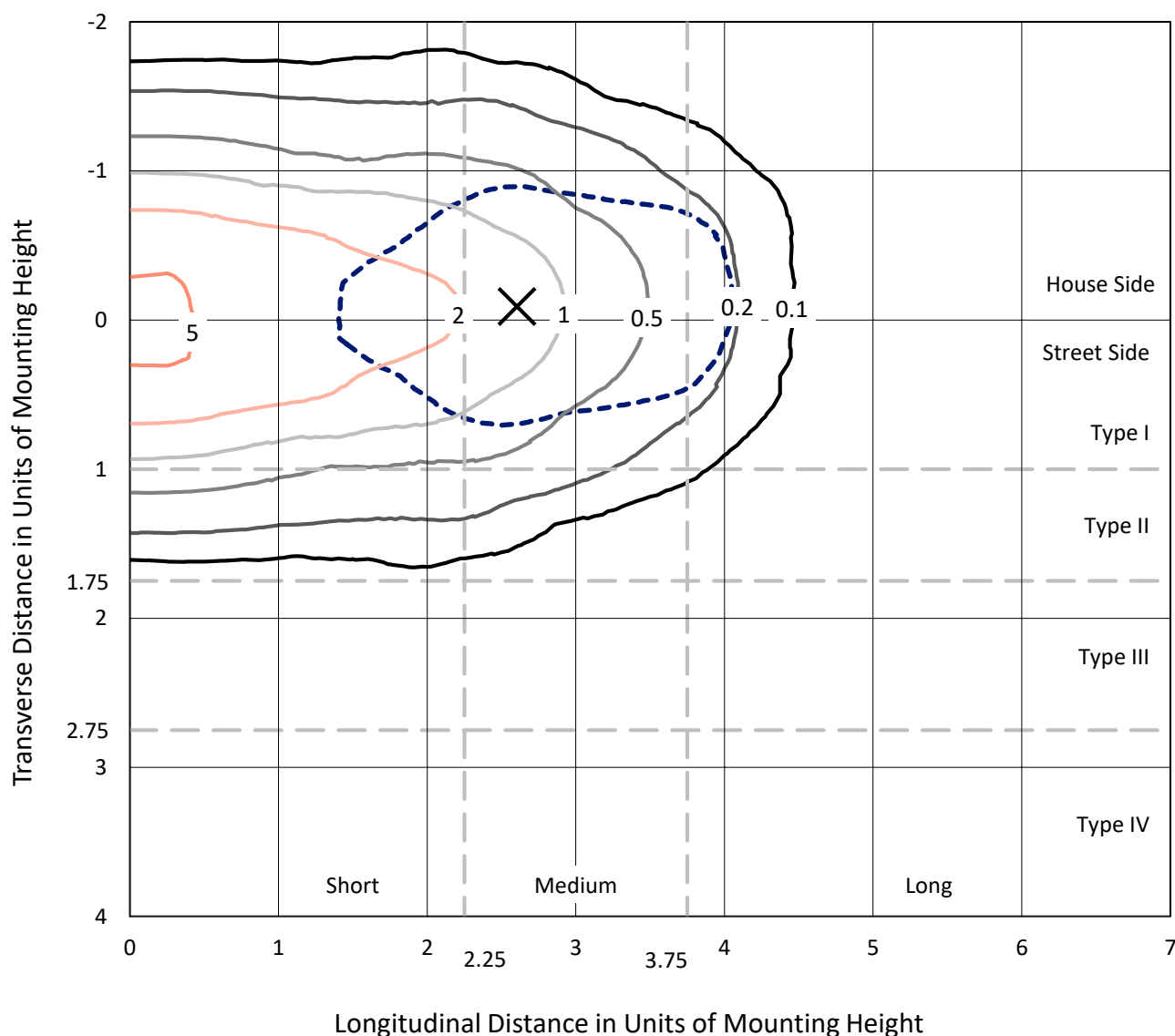


REPORT NUMBER: P158014

CATALOG NUMBER: VST-F05-LED-E-U-RW-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

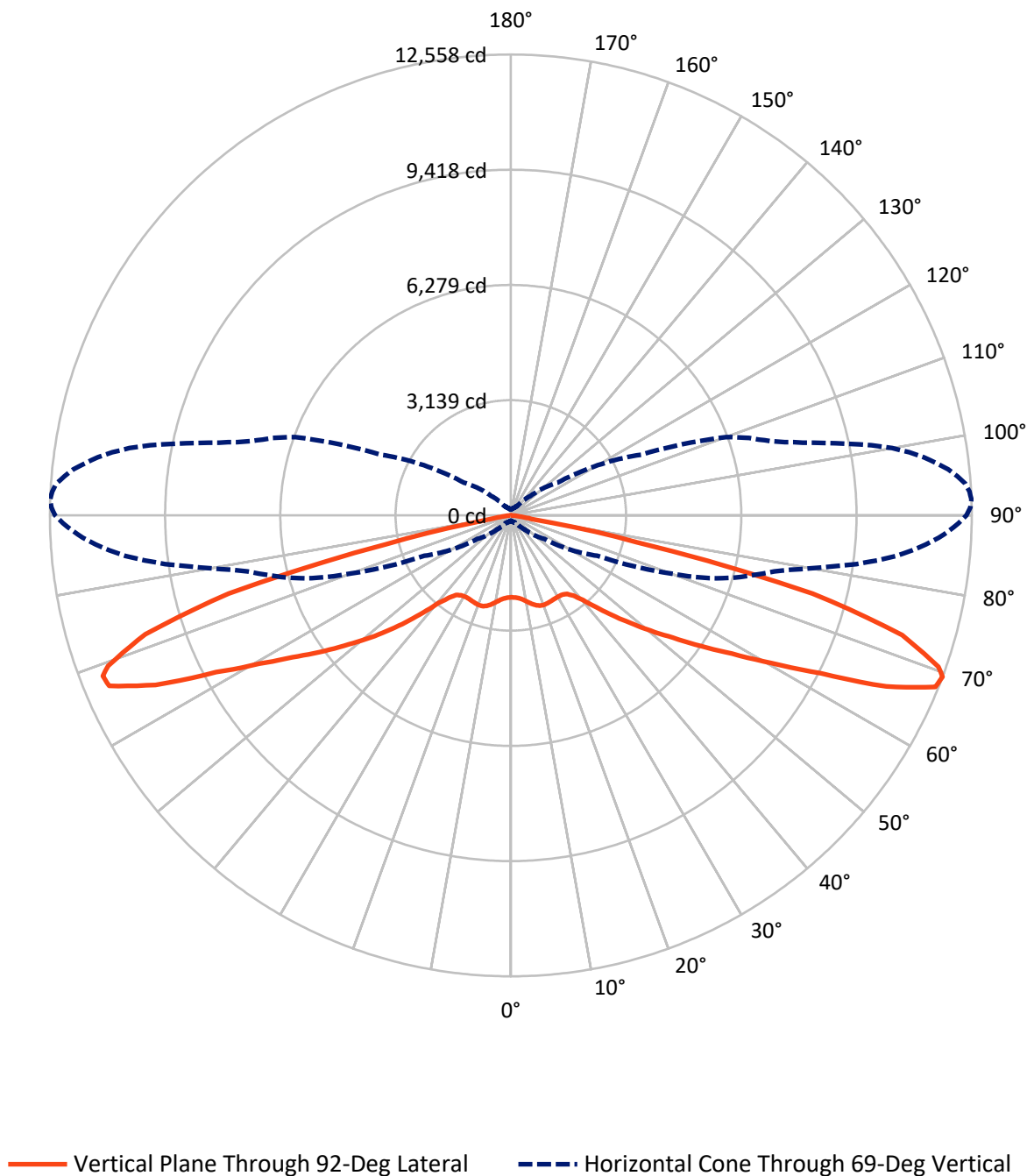


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type I - Medium - Full Cutoff

REPORT NUMBER: P158014

CATALOG NUMBER: VST-F05-LED-E-U-RW-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P158014

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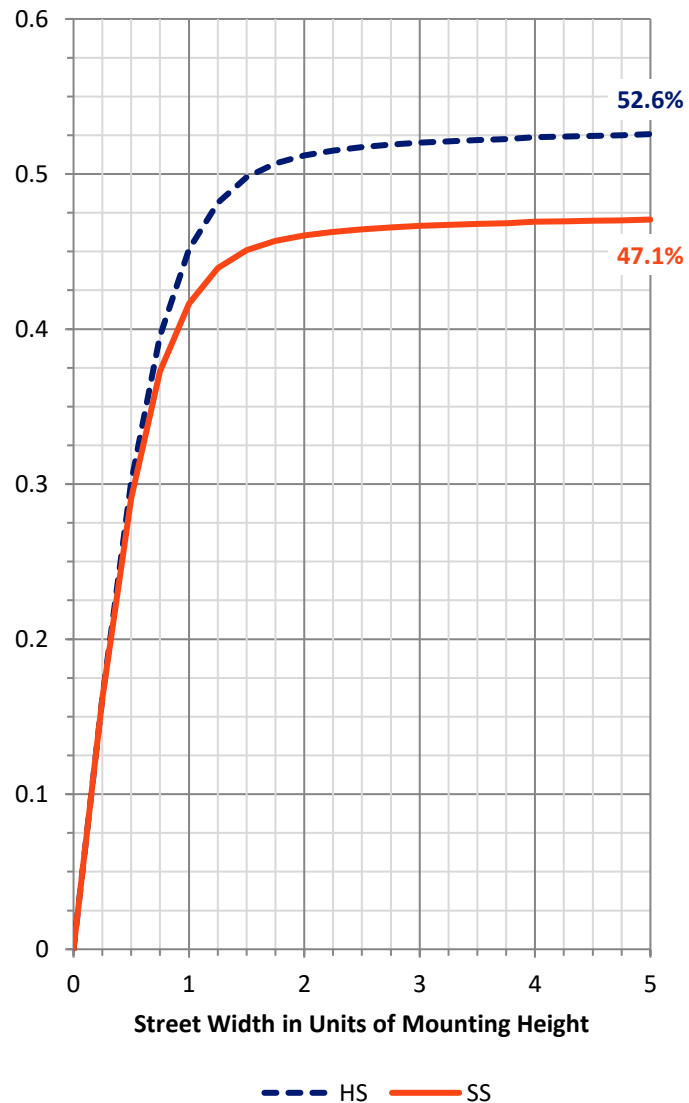
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6229.0	0.0	6229.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	5516.0	0.0	5516.0
	% Fixture	47.0	0.0	47.0
Total	Lumens	11745.0	0.0	11745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.9
10°-20°	689.6	5.9
20°-30°	1118.9	9.5
30°-40°	1394.4	11.9
40°-50°	1736.2	14.8
50°-60°	2141.2	18.2
60°-70°	2659.2	22.6
70°-80°	1633.9	13.9
80°-90°	153.1	1.3
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°	11745.0	100.0
0°-180°	11745.0	100.0

Coefficient of Utilization



REPORT NUMBER: P158014

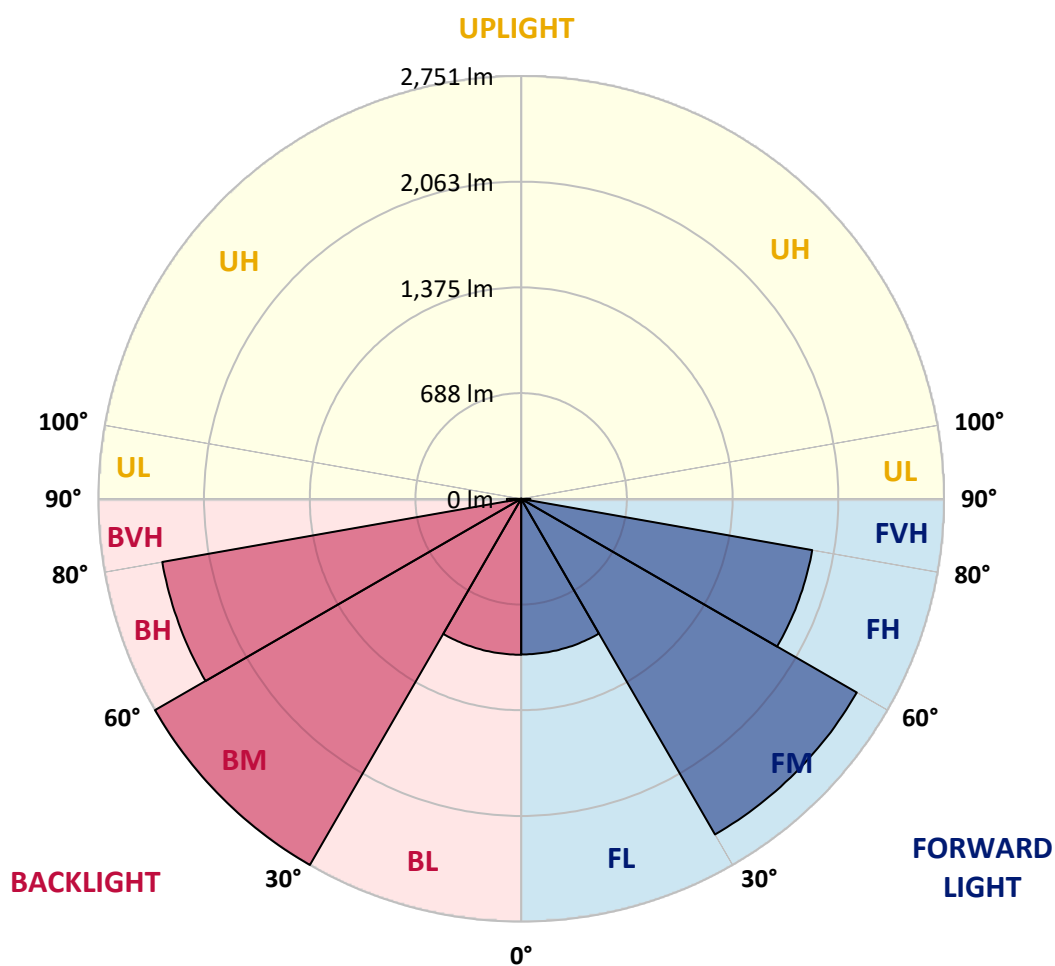
CATALOG NUMBER: VST-F05-LED-E-U-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.4	8.6			
FM	(30°-60°)	2521.2	21.5			
FH	(60°-80°)	1922.5	16.4			G2/5000
FVH	(80°-90°)	60.0	0.5			G1/100
BL	(0°-30°)	1014.5	8.6	B3/2500		
BM	(30°-60°)	2750.7	23.4	B3/5000		
BH	(60°-80°)	2370.7	20.2	B3/2500		G3/2500
BVH	(80°-90°)	93.2	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





REPORT NUMBER: P158014

CATALOG NUMBER: VST-F05-LED-E-U-RW-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1
2.5°	2266.5	2260.5	2265.8	2266.5	2265.8	2265.8	2259.0	2257.5	2248.4	2250.7	2249.9
5°	2297.4	2295.2	2298.9	2300.4	2301.9	2298.9	2293.6	2291.4	2285.4	2283.1	2282.3
7.5°	2326.1	2322.3	2328.3	2333.6	2337.4	2338.1	2338.9	2335.1	2335.1	2332.1	2332.1
10°	2350.2	2347.2	2357.0	2363.8	2375.8	2382.6	2390.2	2395.4	2398.5	2399.2	2398.5
12.5°	2360.8	2358.5	2374.3	2394.7	2417.3	2433.1	2452.0	2465.6	2469.3	2468.6	2472.3
15°	2342.7	2344.2	2368.3	2408.3	2456.5	2496.5	2522.9	2534.2	2537.2	2538.7	2539.5
17.5°	2293.6	2296.7	2331.3	2396.2	2480.6	2553.0	2592.2	2592.2	2586.2	2586.2	2585.4
20°	2215.2	2218.2	2263.5	2357.0	2481.4	2592.2	2648.0	2636.7	2614.1	2609.6	2605.0
22.5°	2106.7	2118.7	2168.5	2277.1	2449.0	2603.5	2682.7	2666.1	2630.7	2620.9	2614.1
25°	1983.8	1982.2	2041.8	2164.0	2370.6	2576.4	2692.5	2689.5	2651.8	2641.2	2629.2
27.5°	1843.5	1848.0	1903.1	2026.7	2250.7	2498.0	2675.9	2715.9	2685.0	2674.4	2663.1
30°	1699.5	1704.0	1756.1	1900.1	2114.2	2385.6	2642.0	2741.5	2729.5	2721.2	2713.6
32.5°	1554.7	1556.2	1618.1	1772.6	1998.8	2251.4	2590.7	2764.9	2781.5	2777.7	2774.7
35°	1419.0	1420.5	1487.6	1644.5	1885.0	2136.8	2528.9	2798.8	2852.4	2856.9	2859.9
37.5°	1287.1	1289.3	1357.9	1522.3	1772.6	2050.1	2460.3	2850.8	2951.9	2968.5	2971.5
40°	1155.9	1158.1	1223.7	1397.9	1658.8	1974.0	2407.5	2924.0	3086.1	3108.7	3132.1
42.5°	1030.7	1039.0	1094.8	1261.4	1532.1	1879.7	2384.9	3013.0	3245.2	3280.6	3307.0
45°	913.8	914.6	977.9	1134.0	1382.1	1752.3	2369.8	3114.0	3423.1	3476.7	3512.9
47.5°	788.7	797.7	864.1	1015.6	1241.8	1594.7	2321.5	3232.4	3616.9	3679.5	3752.6
50°	667.3	680.1	744.2	894.2	1113.6	1431.8	2191.9	3371.1	3834.8	3916.2	4000.7
52.5°	550.4	549.7	617.5	773.6	984.7	1293.9	1981.5	3516.6	4086.6	4174.1	4265.3
55°	416.2	416.2	483.3	625.8	845.2	1171.0	1756.1	3607.1	4320.4	4425.9	4525.5
57.5°	285.8	293.3	356.6	479.5	699.7	1058.6	1583.4	3555.1	4499.1	4630.3	4748.7
60°	211.9	219.4	266.2	344.6	547.4	925.9	1453.7	3310.0	4606.9	4781.1	4934.9
62.5°	183.2	188.5	233.0	276.0	394.3	784.9	1339.1	2998.6	4762.2	5000.5	5214.6
65°	163.6	168.9	213.4	238.3	308.4	631.1	1275.0	2820.7	4947.7	5311.9	5622.5
67.5°	151.6	157.6	195.3	213.4	269.2	570.8	1225.2	2779.2	4946.2	5388.0	5784.6
69°	145.5	150.0	181.0	200.6	260.1	552.7	1117.4	2599.0	4619.7	5094.0	5492.1
70°	141.8	146.3	172.7	192.3	257.1	520.3	1017.9	2360.8	4248.0	4725.3	5129.4
72.5°	129.7	134.2	153.8	171.9	214.1	347.6	709.5	1511.0	3035.6	3376.4	3838.6
75°	114.6	119.9	135.0	150.0	162.1	201.3	409.4	784.2	1735.7	1994.3	2406.0
77.5°	93.5	98.8	114.6	138.7	137.2	153.1	266.2	481.8	812.8	1008.1	1160.4
80°	76.9	80.7	94.2	140.2	112.3	128.2	215.6	395.1	572.3	632.6	668.8
82.5°	51.3	56.5	73.1	110.1	86.0	91.2	161.4	369.5	484.1	530.8	574.5
85°	24.1	26.4	44.5	58.8	52.0	49.0	92.0	260.9	360.4	382.3	398.9
87.5°	0.0	0.0	2.3	4.5	6.8	6.8	16.6	55.0	101.0	122.1	120.6
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: P158014

CATALOG NUMBER: VST-F05-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1
2.5°	2246.9	2247.7	2246.9	2246.9	2246.1	2244.6	2244.6	2243.1	2243.9	2243.1	2244.6
5°	2281.6	2281.6	2279.3	2277.8	2280.1	2277.8	2278.6	2274.8	2274.8	2272.5	2269.5
7.5°	2331.3	2331.3	2332.1	2327.6	2330.6	2331.3	2329.1	2327.6	2326.1	2322.3	2323.1
10°	2397.7	2397.7	2400.0	2393.9	2396.9	2398.5	2399.2	2399.2	2397.7	2390.9	2391.7
12.5°	2471.6	2470.1	2470.8	2467.8	2470.8	2472.3	2473.9	2472.3	2472.3	2470.8	2470.1
15°	2538.7	2537.9	2539.5	2537.2	2537.9	2539.5	2544.0	2543.2	2542.5	2537.9	2537.9
17.5°	2584.7	2582.4	2580.9	2580.2	2580.2	2579.4	2580.2	2580.2	2577.9	2577.1	2577.1
20°	2602.0	2596.0	2592.2	2590.0	2587.0	2585.4	2583.9	2584.7	2583.2	2580.9	2581.7
22.5°	2605.0	2596.8	2589.2	2582.4	2576.4	2572.6	2568.9	2567.3	2563.6	2561.3	2561.3
25°	2619.4	2606.6	2594.5	2583.2	2574.1	2565.8	2557.5	2551.5	2547.0	2541.7	2540.2
27.5°	2651.0	2637.5	2623.1	2608.8	2596.8	2580.2	2568.9	2556.8	2546.2	2537.9	2531.9
30°	2700.1	2686.5	2672.2	2655.6	2639.7	2622.4	2603.5	2589.2	2574.1	2557.5	2548.5
32.5°	2764.9	2755.8	2741.5	2725.7	2711.4	2693.3	2670.6	2648.8	2634.5	2614.8	2600.5
35°	2857.6	2847.1	2842.6	2835.8	2821.4	2810.1	2785.3	2764.9	2751.3	2724.2	2713.6
37.5°	2984.3	2983.6	2987.3	2985.1	2987.3	2973.0	2961.7	2960.9	2941.3	2914.9	2889.3
40°	3157.0	3166.0	3186.4	3200.7	3214.3	3215.8	3231.6	3215.0	3217.3	3213.5	3187.1
42.5°	3353.8	3384.7	3408.8	3451.0	3483.4	3513.6	3534.0	3561.9	3583.0	3601.8	3606.4
45°	3573.2	3619.2	3675.0	3712.7	3776.0	3826.5	3895.9	3949.4	4005.2	4060.3	4079.9
47.5°	3811.4	3868.7	3930.6	4000.7	4080.6	4159.8	4266.8	4349.0	4438.8	4513.4	4579.8
50°	4074.6	4134.1	4217.1	4297.8	4407.8	4499.1	4639.3	4747.1	4891.9	4991.4	5077.4
52.5°	4349.0	4423.7	4516.4	4605.4	4717.7	4834.6	4990.7	5149.8	5323.9	5474.7	5599.9
55°	4617.5	4709.4	4798.4	4902.5	5026.9	5162.6	5339.0	5548.6	5765.8	5938.5	6104.3
57.5°	4856.5	4962.8	5067.6	5173.1	5300.6	5458.2	5656.5	5882.7	6131.5	6361.4	6589.1
60°	5078.1	5205.6	5333.7	5465.7	5612.0	5806.5	6044.8	6323.0	6644.9	6959.4	7257.2
62.5°	5428.8	5596.1	5755.2	5925.6	6102.1	6330.5	6611.8	6976.7	7346.2	7739.0	8044.4
65°	5903.8	6139.0	6347.1	6568.0	6796.5	7101.9	7438.1	7874.7	8404.0	8806.6	9296.7
67.5°	6139.8	6449.7	6717.3	6963.1	7245.9	7554.3	7953.9	8470.4	9035.1	9618.7	10165.3
69°	5862.3	6182.0	6478.3	6753.5	7039.3	7338.6	7756.3	8286.4	8883.6	9514.6	10048.5
70°	5502.6	5822.3	6138.3	6451.9	6712.8	7004.6	7423.8	7970.5	8566.9	9222.8	9752.2
72.5°	4215.6	4600.1	4885.9	5179.9	5482.3	5729.6	6213.7	6674.4	7295.6	7961.4	8544.3
75°	2697.0	3050.7	3362.8	3613.1	3908.7	4205.0	4562.4	5074.4	5463.4	6010.1	6482.8
77.5°	1385.8	1490.6	1791.5	1881.2	2086.3	2247.7	2444.4	2572.6	2889.3	2956.4	3235.4
80°	656.7	591.9	557.2	525.5	534.6	530.8	515.0	493.9	520.3	508.9	504.4
82.5°	572.3	510.5	407.2	346.1	299.3	254.1	218.7	200.6	202.8	208.9	211.1
85°	401.1	377.0	294.1	223.2	174.2	135.0	108.6	104.1	107.1	115.4	112.3
87.5°	116.1	121.4	107.1	74.6	52.0	37.7	29.4	33.2	31.7	30.9	32.4
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: P158014

CATALOG NUMBER: VST-F05-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1
2.5°	2244.6	2243.9	2241.6	2239.4	2239.4	2237.9	2239.4	2240.1	2239.4	2239.4	2237.9
5°	2270.3	2271.0	2273.3	2268.8	2268.0	2268.8	2265.8	2265.0	2262.7	2265.0	2262.0
7.5°	2319.3	2321.5	2321.5	2318.5	2317.8	2320.0	2315.5	2314.0	2311.7	2311.0	2310.2
10°	2392.4	2394.7	2390.9	2388.7	2386.4	2389.4	2385.6	2385.6	2383.4	2381.1	2380.4
12.5°	2473.9	2472.3	2470.8	2472.3	2470.1	2470.1	2467.8	2466.3	2465.6	2464.8	2463.3
15°	2537.2	2542.5	2542.5	2544.0	2542.5	2542.5	2539.5	2540.2	2538.7	2537.9	2538.7
17.5°	2577.9	2579.4	2583.2	2585.4	2585.4	2586.2	2584.7	2586.2	2584.7	2584.7	2587.7
20°	2583.2	2584.7	2588.5	2592.2	2594.5	2596.0	2596.0	2598.3	2599.8	2601.3	2605.0
22.5°	2562.1	2564.3	2568.9	2575.6	2579.4	2580.9	2583.9	2587.7	2591.5	2594.5	2599.8
25°	2540.2	2541.0	2545.5	2552.3	2556.8	2560.6	2565.8	2570.4	2575.6	2581.7	2587.7
27.5°	2528.1	2527.4	2531.2	2537.9	2541.7	2547.0	2551.5	2558.3	2564.3	2571.9	2577.1
30°	2538.7	2532.7	2533.4	2536.4	2539.5	2543.2	2548.5	2554.5	2561.3	2568.1	2574.1
32.5°	2585.4	2571.9	2562.8	2560.6	2561.3	2562.1	2565.1	2568.9	2574.1	2579.4	2581.7
35°	2686.5	2663.1	2651.0	2641.2	2632.9	2626.2	2627.7	2626.9	2626.9	2631.4	2626.2
37.5°	2878.7	2849.3	2836.5	2819.2	2809.4	2784.5	2777.7	2776.2	2766.4	2766.4	2755.1
40°	3180.3	3163.0	3153.2	3137.4	3089.9	3095.9	3062.0	3062.7	3034.8	3037.8	3018.2
42.5°	3609.4	3611.6	3599.6	3589.0	3552.1	3535.5	3503.8	3458.6	3423.1	3422.4	3383.2
45°	4105.5	4132.6	4094.2	4107.8	4075.3	4030.8	3993.9	3935.8	3880.8	3863.5	3823.5
47.5°	4624.2	4668.7	4639.3	4644.6	4628.8	4565.4	4515.7	4444.0	4372.4	4324.2	4300.0
50°	5178.4	5207.8	5207.1	5192.8	5185.2	5123.4	5043.5	4989.2	4936.4	4871.6	4850.4
52.5°	5680.6	5749.2	5795.2	5784.6	5762.8	5725.8	5655.0	5608.2	5530.5	5521.5	5530.5
55°	6218.2	6307.2	6353.9	6410.5	6411.2	6404.4	6375.0	6357.7	6285.3	6293.6	6283.0
57.5°	6727.1	6857.6	6929.2	7049.8	7091.3	7146.4	7126.0	7148.6	7104.9	7133.5	7125.2
60°	7417.0	7598.0	7717.1	7882.2	7959.2	8097.1	8124.3	8140.9	8165.0	8223.8	8190.6
62.5°	8284.9	8550.3	8797.6	9022.3	9096.2	9303.5	9337.5	9467.1	9473.9	9513.9	9440.8
65°	9705.4	10028.9	10301.1	10570.2	10725.6	10968.3	11066.4	11318.2	11241.3	11273.7	11117.6
67.5°	10635.8	11012.1	11377.0	11631.9	11889.7	12137.8	12316.5	12479.3	12477.8	12446.2	12307.4
69°	10553.6	10972.9	11332.5	11674.1	11945.5	12200.4	12415.3	12520.8	12557.8	12511.8	12413.0
70°	10269.4	10699.9	11140.3	11421.5	11717.1	11996.8	12218.5	12333.8	12359.5	12327.0	12241.8
72.5°	8955.9	9369.1	9854.7	10110.3	10467.7	10669.8	10975.1	11124.4	11150.8	11109.3	11053.5
75°	6989.5	7064.2	7558.8	7721.6	7981.0	8214.0	8404.0	8355.8	8490.7	8464.3	8443.2
77.5°	3292.7	3093.6	3414.1	3563.4	3485.0	3276.1	3580.0	3360.5	3506.1	3695.3	3647.1
80°	542.9	541.4	555.7	587.4	549.7	583.6	582.8	566.2	567.8	608.5	587.4
82.5°	208.9	213.4	215.6	221.7	221.7	222.4	226.2	230.7	227.0	234.5	233.0
85°	113.1	120.6	113.9	108.6	112.3	114.6	117.6	121.4	117.6	128.9	122.9
87.5°	29.4	30.9	27.1	27.1	26.4	24.1	24.1	25.6	27.9	33.2	36.2
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: P158014

CATALOG NUMBER: VST-F05-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1
2.5°	2234.8	2235.6	2236.3	2234.1	2232.6	2232.6	2231.8	2230.3	2229.6	2229.6	2229.6
5°	2260.5	2262.0	2258.2	2257.5	2255.9	2254.4	2254.4	2252.9	2253.7	2253.7	2249.9
7.5°	2311.7	2309.5	2305.0	2301.9	2305.0	2299.7	2297.4	2298.9	2297.4	2298.2	2296.7
10°	2380.4	2380.4	2375.1	2378.1	2374.3	2368.3	2370.6	2368.3	2366.8	2361.5	2364.5
12.5°	2465.6	2463.3	2460.3	2453.5	2451.2	2450.5	2443.7	2444.4	2442.2	2440.7	2438.4
15°	2540.2	2539.5	2532.7	2528.9	2528.1	2525.1	2522.1	2520.6	2516.8	2516.1	2514.6
17.5°	2590.0	2587.7	2584.7	2580.9	2580.9	2576.4	2574.9	2571.1	2570.4	2568.1	2565.8
20°	2606.6	2607.3	2604.3	2601.3	2599.8	2596.8	2594.5	2591.5	2590.0	2587.0	2584.7
22.5°	2602.8	2602.8	2599.8	2599.0	2596.0	2591.5	2588.5	2584.7	2580.9	2577.1	2572.6
25°	2590.7	2590.0	2587.7	2583.9	2580.2	2573.4	2567.3	2561.3	2556.0	2551.5	2544.7
27.5°	2580.2	2578.7	2574.1	2568.9	2561.3	2553.8	2542.5	2534.2	2527.4	2521.4	2513.8
30°	2576.4	2571.1	2564.3	2556.0	2547.0	2535.7	2523.6	2513.1	2505.5	2499.5	2496.5
32.5°	2580.9	2574.1	2563.6	2553.0	2541.7	2528.1	2516.1	2507.0	2500.2	2498.7	2498.7
35°	2622.4	2611.1	2596.8	2581.7	2567.3	2556.0	2547.7	2547.0	2542.5	2547.7	2556.0
37.5°	2743.8	2734.0	2712.1	2692.5	2682.7	2677.4	2669.9	2671.4	2660.8	2677.4	2691.0
40°	3001.6	2989.6	2963.9	2948.1	2928.5	2909.7	2924.7	2920.2	2927.8	2924.7	2939.1
42.5°	3377.9	3365.8	3325.1	3319.1	3310.8	3303.2	3303.2	3297.2	3294.2	3304.8	3292.7
45°	3835.6	3811.4	3796.4	3814.5	3789.6	3797.1	3823.5	3788.1	3796.4	3747.3	3702.1
47.5°	4310.6	4308.3	4304.5	4326.4	4330.2	4341.5	4355.8	4319.6	4254.0	4217.1	4125.1
50°	4857.2	4880.6	4889.6	4910.8	4919.8	4928.1	4905.5	4851.9	4741.1	4643.1	4534.5
52.5°	5521.5	5480.8	5536.6	5556.9	5547.9	5514.7	5433.3	5367.7	5214.6	5073.6	4905.5
55°	6295.1	6304.9	6265.7	6249.9	6218.9	6127.0	6014.6	5866.8	5673.0	5489.1	5276.4
57.5°	7083.0	7079.2	7018.2	6932.2	6827.4	6716.6	6549.2	6337.3	6111.1	5863.8	5606.7
60°	8041.3	8037.6	7913.9	7766.9	7617.6	7438.9	7176.5	6921.7	6618.6	6293.6	5987.5
62.5°	9300.5	9138.4	9017.0	8797.6	8566.9	8333.1	7978.0	7639.5	7234.6	6824.4	6467.0
65°	10914.1	10647.1	10509.2	10191.0	9833.6	9468.7	9107.5	8662.6	8117.5	7621.4	7184.8
67.5°	12107.6	11863.3	11610.7	11293.3	10901.2	10494.1	9999.5	9439.2	8820.2	8263.8	7788.0
69°	12212.4	11984.0	11680.9	11362.7	10991.7	10549.1	10009.3	9381.9	8754.6	8191.4	7723.2
70°	12053.3	11810.6	11491.6	11160.6	10745.9	10328.2	9762.7	9109.0	8480.9	7916.2	7459.3
72.5°	10866.6	10629.8	10290.5	9894.7	9469.4	9112.0	8575.2	7893.6	7210.4	6688.7	6332.8
75°	8263.0	8211.0	7970.5	7739.7	7405.0	7006.1	6515.3	6056.8	5496.6	4944.7	4612.9
77.5°	3525.7	3645.6	3770.7	3788.8	3800.9	3678.0	3601.8	3486.5	3111.7	2941.3	2765.6
80°	651.5	582.1	621.3	625.8	651.5	665.0	714.8	847.5	862.6	895.0	935.0
82.5°	231.5	235.2	241.3	243.5	245.8	254.8	288.8	346.1	398.1	466.0	556.4
85°	131.2	133.5	138.7	143.3	146.3	155.3	174.2	208.1	259.4	337.0	456.9
87.5°	40.0	45.2	48.3	54.3	56.5	58.1	66.4	89.0	114.6	169.6	247.3
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: P158014

CATALOG NUMBER: VST-F05-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1	2231.1
2.5°	2229.6	2228.8	2227.3	2225.8	2226.5	2225.0	2220.5	2219.0	2213.7	2210.0	2206.9
5°	2249.9	2249.2	2246.1	2246.9	2246.1	2238.6	2233.3	2224.3	2219.0	2210.7	2207.7
7.5°	2292.1	2291.4	2286.1	2288.4	2286.9	2275.6	2266.5	2252.2	2244.6	2234.1	2225.8
10°	2355.5	2355.5	2349.4	2350.2	2350.2	2335.1	2319.3	2295.2	2277.8	2261.2	2246.9
12.5°	2432.4	2429.4	2428.6	2424.8	2421.8	2405.2	2381.1	2348.7	2316.3	2289.1	2269.5
15°	2510.0	2505.5	2503.3	2498.7	2495.0	2479.9	2447.5	2407.5	2363.8	2320.0	2287.6
17.5°	2560.6	2557.5	2553.0	2551.5	2546.2	2531.2	2508.5	2468.6	2414.3	2353.2	2304.2
20°	2579.4	2574.1	2571.1	2568.1	2565.1	2554.5	2554.5	2528.9	2468.6	2382.6	2308.0
22.5°	2567.3	2564.3	2559.8	2557.5	2554.5	2556.0	2585.4	2581.7	2512.3	2389.4	2280.8
25°	2539.5	2535.7	2531.9	2531.9	2531.2	2547.0	2617.9	2627.7	2525.1	2356.2	2221.3
27.5°	2510.8	2505.5	2507.0	2507.8	2511.6	2545.5	2653.3	2639.7	2490.4	2276.3	2118.7
30°	2493.5	2493.5	2497.2	2503.3	2510.8	2570.4	2681.2	2612.6	2400.7	2155.7	1983.0
32.5°	2501.0	2508.5	2516.8	2531.9	2543.2	2625.4	2691.0	2542.5	2270.3	2006.4	1841.3
35°	2568.1	2577.1	2593.0	2616.4	2629.9	2704.6	2691.0	2439.9	2118.7	1878.2	1695.0
37.5°	2714.4	2723.4	2742.3	2760.4	2773.9	2804.1	2679.7	2309.5	1992.1	1745.5	1563.8
40°	2949.6	2962.4	2976.0	2973.0	2963.9	2934.5	2657.1	2188.1	1875.2	1629.4	1434.8
42.5°	3280.6	3268.6	3267.1	3237.6	3207.5	3081.6	2640.5	2108.9	1774.9	1507.2	1306.7
45°	3662.9	3613.9	3563.4	3524.2	3478.2	3242.9	2636.0	2044.8	1664.1	1371.5	1167.2
47.5°	4047.4	3969.0	3871.0	3809.9	3735.3	3414.8	2649.5	1958.9	1521.6	1223.7	1036.7
50°	4424.4	4296.3	4174.9	4101.7	4017.3	3612.4	2671.4	1814.1	1351.2	1089.5	917.6
52.5°	4773.5	4608.4	4484.0	4398.0	4294.7	3842.4	2651.8	1624.1	1203.4	960.6	804.5
55°	5105.3	4922.8	4793.9	4703.4	4582.0	4073.1	2510.0	1451.4	1062.4	834.7	677.1
57.5°	5395.6	5220.7	5086.4	4963.5	4861.0	4273.6	2230.3	1308.9	926.7	690.7	539.1
60°	5734.9	5538.1	5379.0	5247.8	5127.2	4376.9	1916.7	1182.3	781.9	534.6	389.8
62.5°	6192.5	5966.4	5782.4	5632.3	5474.7	4399.6	1702.5	1055.6	620.5	386.8	283.5
65°	6871.1	6592.2	6362.2	6155.6	5942.2	4306.1	1597.0	917.6	461.4	287.3	237.5
67.5°	7410.2	7120.7	6854.6	6589.1	6316.2	4132.6	1573.6	790.2	354.4	244.3	213.4
69°	7344.7	7068.7	6824.4	6537.1	6234.8	3914.7	1550.2	741.2	323.5	227.0	202.1
70°	7092.1	6830.4	6582.4	6348.6	5978.4	3671.9	1488.4	714.0	311.4	218.7	193.8
72.5°	5992.7	5689.6	5449.1	5158.1	4768.3	2728.7	1128.7	577.6	285.8	199.8	174.9
75°	4370.9	4119.8	3880.1	3558.1	3178.8	1578.9	702.7	330.2	209.6	181.0	158.3
77.5°	2552.3	2495.7	2264.2	2052.4	1676.9	803.8	403.4	197.5	162.9	164.4	139.5
80°	960.6	1023.2	1046.5	973.4	899.5	554.9	293.3	160.6	141.8	162.1	118.4
82.5°	700.5	812.8	826.4	791.7	736.7	517.2	234.5	128.9	115.4	174.2	101.8
85°	584.3	646.9	656.7	620.5	602.4	438.1	163.6	90.5	84.4	125.2	76.2
87.5°	295.6	311.4	319.7	289.5	291.0	204.3	65.6	38.5	46.0	53.5	42.2
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: P158014

CATALOG NUMBER: VST-F05-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	2231.1	2231.1
2.5°	2200.2	2204.7
5°	2203.2	2203.2
7.5°	2220.5	2220.5
10°	2239.4	2240.1
12.5°	2256.7	2255.9
15°	2270.3	2268.0
17.5°	2278.6	2276.3
20°	2270.3	2266.5
22.5°	2228.1	2217.5
25°	2151.1	2137.6
27.5°	2049.4	2040.3
30°	1916.7	1903.1
32.5°	1761.3	1754.5
35°	1612.8	1604.5
37.5°	1477.1	1474.8
40°	1362.5	1350.4
42.5°	1228.3	1223.0
45°	1091.8	1088.8
47.5°	963.6	960.6
50°	845.2	839.2
52.5°	729.1	719.3
55°	600.2	593.4
57.5°	460.7	454.7
60°	324.2	317.4
62.5°	230.7	223.2
65°	192.3	186.2
67.5°	174.2	167.4
69°	165.9	159.8
70°	160.6	156.1
72.5°	149.3	146.3
75°	136.5	134.2
77.5°	119.9	116.1
80°	100.3	96.5
82.5°	84.4	80.7
85°	56.5	51.3
87.5°	25.6	22.6
90°	0.0	0.0

(END OF REPORT)