

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: P158478

Luminaire Tested: **VST-E08-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158478
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E08-LED-E-U-SL3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20369.7 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 194.5
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



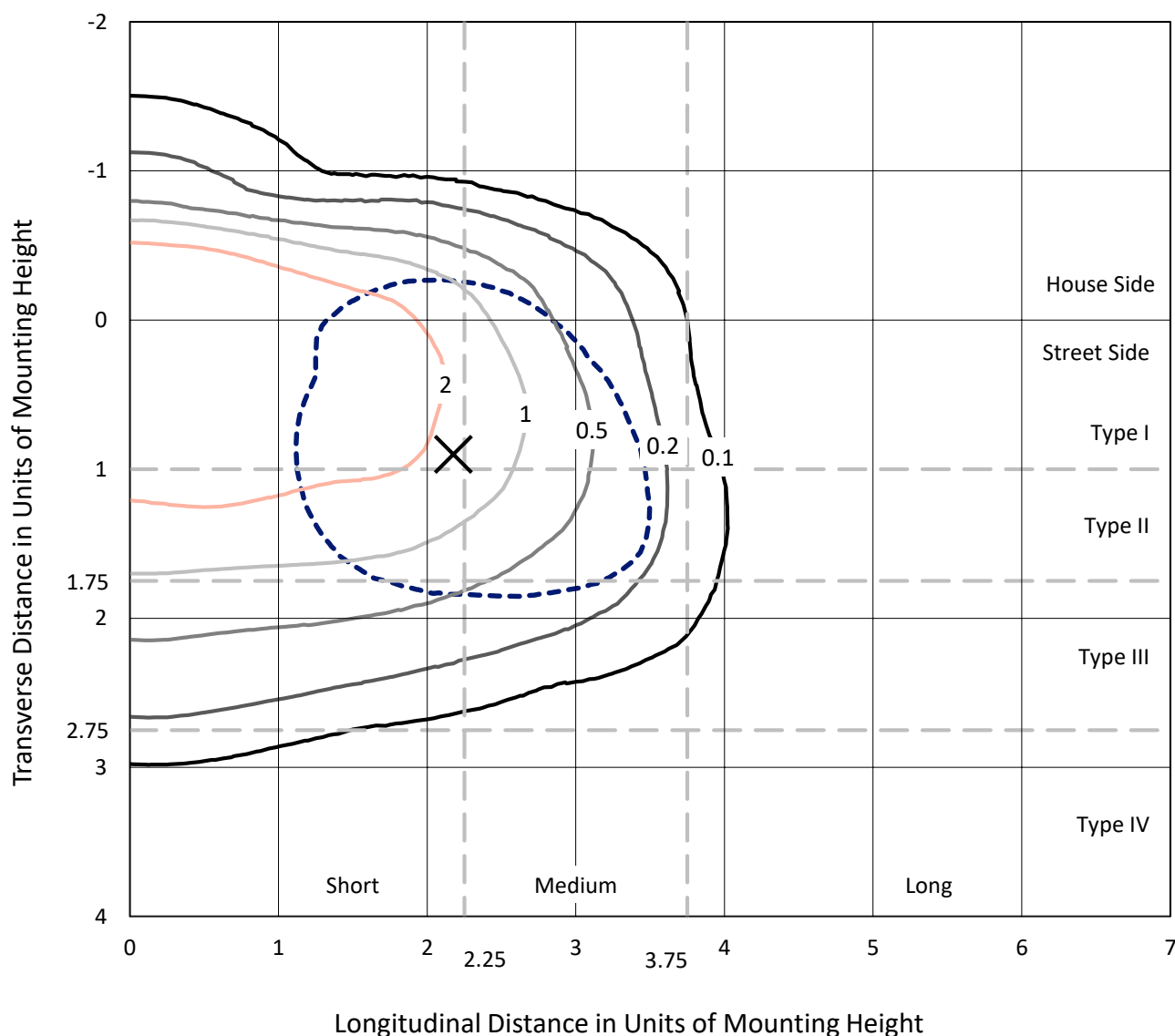
REPORT NUMBER: P158478

CATALOG NUMBER: VST-E08-LED-E-U-SL3-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

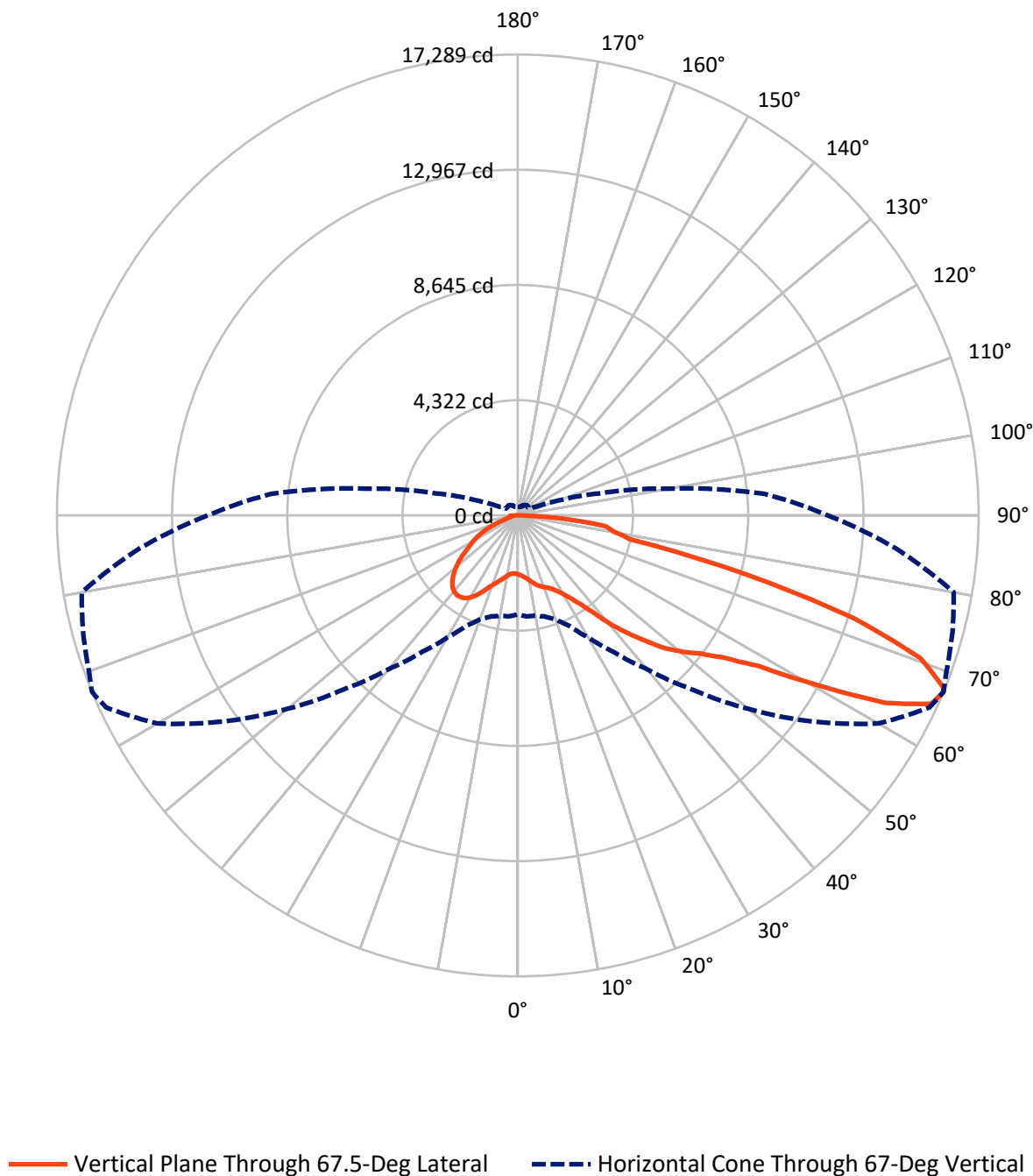


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P158478

CATALOG NUMBER: VST-E08-LED-E-U-SL3-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P158478

CATALOG NUMBER: VST-E08-LED-E-U-SL3-8030

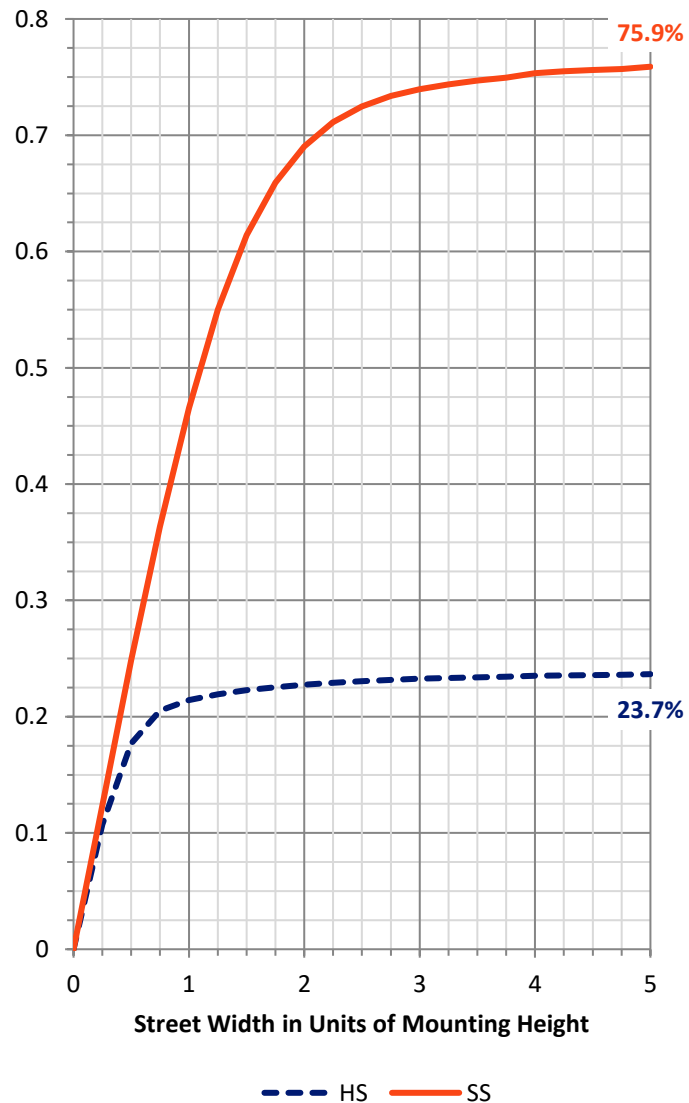
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4886.7	0.0	4886.7
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	15482.9	0.0	15482.9
	% Fixture	76.0	0.0	76.0
Total	Lumens	20369.7	0.0	20369.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.1
10°-20°	747.6	3.7
20°-30°	1334.7	6.6
30°-40°	1956.1	9.6
40°-50°	3022.5	14.8
50°-60°	4401.3	21.6
60°-70°	5733.4	28.1
70°-80°	2566.5	12.6
80°-90°	388.1	1.9
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°	20369.7	100.0
0°-180°	20369.7	100.0

Coefficient of Utilization



REPORT NUMBER: P158478

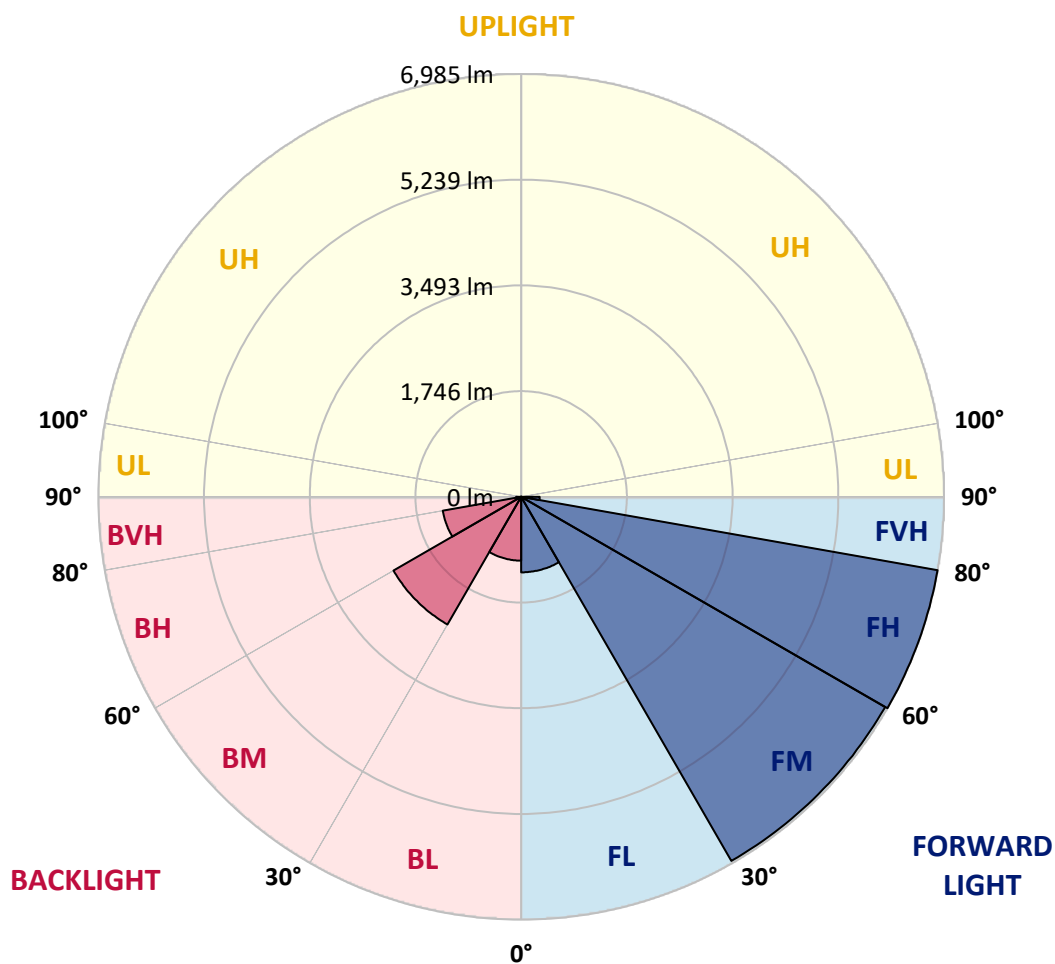
CATALOG NUMBER: VST-E08-LED-E-U-SL3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1248.1	6.1			
FM	(30°-60°)	6945.0	34.1			
FH	(60°-80°)	6985.2	34.3			G3/7500
FVH	(80°-90°)	304.7	1.5			G3/500
BL	(0°-30°)	1053.7	5.2	B3/2500		
BM	(30°-60°)	2435.0	12.0	B2/2500		
BH	(60°-80°)	1314.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	83.3	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-G3

Type III Short





REPORT NUMBER: P158478

CATALOG NUMBER: VST-E08-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9
2.5°	2294.3	2299.7	2301.1	2299.7	2301.1	2295.7	2294.3	2286.2	2290.3	2279.5	2276.7
5°	2418.5	2422.6	2425.3	2414.5	2417.2	2411.8	2405.0	2396.9	2386.1	2371.3	2361.8
7.5°	2540.1	2546.8	2545.5	2541.4	2532.0	2526.6	2513.1	2500.9	2482.0	2464.5	2452.3
10°	2703.5	2702.1	2702.1	2679.2	2665.7	2653.5	2629.2	2610.3	2591.4	2565.7	2552.2
12.5°	2892.5	2883.1	2879.0	2862.8	2834.5	2812.9	2777.7	2741.3	2707.5	2680.5	2658.9
15°	3074.8	3074.8	3064.0	3038.4	3011.4	2983.0	2933.0	2880.4	2825.0	2781.8	2760.2
17.5°	3240.9	3226.1	3216.6	3182.9	3154.5	3108.6	3053.2	2996.5	2927.6	2866.9	2825.0
20°	3362.5	3350.3	3330.1	3288.2	3239.6	3185.6	3120.7	3054.6	2980.3	2914.1	2866.9
22.5°	3432.7	3417.8	3386.8	3331.4	3265.2	3189.6	3114.0	3051.9	2984.4	2934.4	2895.2
25°	3469.1	3454.3	3412.4	3339.5	3250.4	3150.4	3064.0	3003.3	2964.1	2951.9	2946.5
27.5°	3467.8	3455.6	3411.1	3327.3	3212.6	3097.8	3004.6	2953.3	2949.2	2996.5	3031.6
30°	3432.7	3424.6	3384.1	3300.3	3180.2	3060.0	2973.5	2946.5	2988.4	3088.3	3174.8
32.5°	3397.6	3393.5	3365.2	3289.5	3186.9	3085.6	3026.2	3028.9	3115.3	3269.3	3408.4
35°	3401.6	3407.0	3403.0	3362.5	3297.6	3245.0	3216.6	3276.0	3411.1	3597.4	3783.8
37.5°	3436.7	3457.0	3482.6	3486.7	3488.0	3479.9	3539.4	3664.9	3862.1	4105.2	4396.9
40°	3513.7	3536.7	3610.9	3675.7	3759.5	3859.4	3979.6	4153.8	4398.2	4698.0	5055.8
42.5°	3752.7	3785.1	3877.0	3997.1	4151.1	4307.7	4487.3	4725.0	5024.8	5340.8	5716.2
45°	4064.7	4132.2	4233.5	4367.1	4598.1	4818.2	5050.4	5316.5	5635.2	6030.8	6408.9
47.5°	4453.6	4521.1	4668.3	4811.4	5084.2	5358.3	5612.2	5890.4	6236.1	6641.2	7059.8
50°	4793.9	4870.8	5001.8	5194.9	5510.9	5847.2	6128.0	6429.2	6719.5	7146.2	7568.9
52.5°	5061.2	5116.6	5242.2	5419.1	5771.5	6140.2	6495.4	6830.2	7174.6	7601.3	7992.9
55°	5095.0	5146.3	5269.2	5471.8	5829.6	6238.8	6647.9	7045.0	7532.5	7998.3	8516.9
57.5°	4949.2	4991.0	5115.3	5296.2	5644.6	6110.5	6627.7	7136.8	7760.7	8389.9	9023.3
60°	4742.6	4784.4	4881.6	5026.1	5340.8	5843.1	6446.7	7143.5	7972.7	8881.5	9813.3
62.5°	4515.7	4552.1	4630.5	4733.1	5009.9	5473.1	6164.5	7099.0	8145.5	9370.3	10807.1
65°	4133.5	4221.3	4255.1	4360.4	4637.2	5074.7	5778.3	6797.8	8075.3	9587.7	11431.0
67°	3710.9	3800.0	3817.5	3924.2	4145.7	4565.7	5281.4	6240.1	7518.9	9212.3	11293.3
67.5°	3575.8	3651.4	3678.5	3785.1	3994.4	4390.1	5069.3	6038.9	7348.8	9007.1	11127.2
70°	2629.2	2712.9	2742.6	2787.2	2937.1	3266.6	3716.3	4557.6	5859.3	7350.1	9386.5
72.5°	1407.1	1474.6	1503.0	1569.1	1646.1	1825.7	2170.1	2773.7	3596.1	4918.1	6677.7
75°	952.0	979.0	999.3	1045.2	1124.9	1268.0	1419.3	1631.3	2128.2	2775.0	3800.0
77.5°	542.9	555.0	557.7	565.8	629.3	765.7	1014.1	1373.3	1760.9	2010.7	2430.7
80°	235.0	259.3	278.2	266.0	262.0	290.3	363.3	541.5	1061.4	1685.3	1999.9
82.5°	126.9	137.7	153.9	155.3	163.4	172.8	187.7	222.8	313.3	632.0	1378.7
85°	66.2	68.9	91.8	105.3	112.1	117.5	120.2	133.7	153.9	195.8	343.0
87.5°	9.5	13.5	16.2	21.6	24.3	25.7	29.7	37.8	44.6	54.0	91.8
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: P158478

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9
2.5°	2264.6	2261.9	2253.8	2248.4	2243.0	2237.6	2230.8	2225.4	2216.0	2209.2	2201.1
5°	2348.3	2332.1	2321.3	2306.5	2303.8	2286.2	2268.6	2260.5	2244.3	2230.8	2214.6
7.5°	2433.4	2414.5	2396.9	2384.8	2378.0	2353.7	2336.2	2315.9	2297.0	2279.5	2260.5
10°	2533.3	2514.4	2495.5	2487.4	2475.3	2452.3	2437.4	2411.8	2392.9	2371.3	2345.6
12.5°	2637.3	2623.8	2610.3	2599.5	2594.1	2583.3	2561.7	2540.1	2514.4	2492.8	2463.1
15°	2729.1	2719.7	2714.3	2711.6	2711.6	2704.8	2684.6	2664.3	2637.3	2613.0	2580.6
17.5°	2793.9	2789.9	2793.9	2798.0	2803.4	2798.0	2793.9	2771.0	2753.4	2723.7	2691.3
20°	2831.8	2839.9	2860.1	2873.6	2885.8	2895.2	2899.3	2880.4	2857.4	2835.8	2814.2
22.5°	2872.3	2895.2	2930.3	2950.6	2970.8	3004.6	3012.7	2999.2	2981.7	2968.1	2945.2
25°	2939.8	2973.5	3034.3	3066.7	3095.1	3145.0	3151.8	3154.5	3150.4	3139.6	3111.3
27.5°	3045.1	3111.3	3192.3	3234.2	3265.2	3330.1	3355.7	3355.7	3344.9	3357.1	3357.1
30°	3228.8	3316.5	3421.9	3446.2	3494.8	3551.5	3593.4	3598.8	3600.1	3625.8	3663.6
32.5°	3511.0	3594.7	3712.2	3739.2	3781.1	3835.1	3882.4	3877.0	3889.1	3944.5	3994.4
35°	3921.5	4006.6	4083.6	4120.0	4138.9	4187.5	4205.1	4234.8	4271.3	4340.1	4333.4
37.5°	4529.2	4604.8	4615.6	4638.6	4615.6	4625.1	4638.6	4673.7	4770.9	4833.0	4733.1
40°	5261.1	5386.7	5374.5	5347.5	5296.2	5227.3	5251.6	5305.7	5411.0	5357.0	5088.3
42.5°	5951.1	6080.8	6056.5	6025.4	5912.0	5886.3	5883.6	5928.2	5984.9	5831.0	5366.4
45°	6630.4	6762.7	6720.9	6703.3	6627.7	6572.3	6618.2	6620.9	6606.1	6276.6	5609.5
47.5°	7331.2	7452.8	7425.8	7440.6	7362.3	7325.8	7329.9	7311.0	7171.9	6654.7	5798.6
50°	7897.1	8060.5	8076.7	8042.9	8001.0	7945.7	8087.5	8036.1	7726.9	7022.0	5980.9
52.5°	8337.3	8557.4	8641.1	8619.5	8585.8	8592.5	8858.5	8916.6	8404.8	7485.2	6182.1
55°	8858.5	9205.6	9342.0	9423.0	9387.9	9522.9	10131.9	10161.7	9347.4	8090.2	6444.0
57.5°	9610.7	10107.6	10538.4	10653.2	10763.9	11202.8	12191.3	11890.1	10570.8	9005.7	6776.2
60°	10754.5	11842.9	12542.4	12909.7	13169.0	13782.0	14721.9	13958.9	12095.4	10095.5	7193.5
62.5°	12356.0	13946.8	15116.2	15484.9	15591.6	15944.0	16624.6	15164.8	12925.9	10584.3	7230.0
65°	13548.4	15456.5	16856.9	17045.9	16919.0	16925.7	17104.0	15101.4	12616.7	10157.6	6603.4
67°	13470.1	15606.4	17040.5	17289.0	17113.4	16882.5	16604.3	14241.2	11622.8	9263.6	5782.4
67.5°	13349.9	15461.9	16960.8	17222.8	17062.1	16798.8	16392.3	13907.6	11313.5	8985.5	5614.9
70°	11540.4	13637.5	15656.4	16025.0	16092.5	15852.2	14711.1	11726.7	9185.3	7309.6	4360.4
72.5°	8982.8	10850.3	12847.6	13167.6	13426.9	12734.1	10707.2	8099.6	6695.2	5267.9	3157.2
75°	5930.9	7830.9	8838.3	8885.5	8554.7	7271.8	5231.4	4056.6	3733.8	3096.4	1954.0
77.5°	3173.4	4604.8	4633.2	4290.2	4133.5	3081.6	1250.5	690.0	768.4	872.3	777.8
80°	2367.2	2933.0	3398.9	3654.1	3729.8	2642.7	646.8	366.0	320.0	291.7	287.6
82.5°	2135.0	2833.1	3176.1	3315.2	3280.1	2174.1	363.3	245.8	203.9	221.5	252.5
85°	837.2	1512.4	1989.1	1925.6	1617.8	810.2	198.5	132.3	132.3	191.8	248.5
87.5°	171.5	310.6	421.3	402.4	361.9	156.6	97.2	79.7	81.0	155.3	235.0
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9	2207.9
2.5°	2193.0	2184.9	2179.5	2174.1	2168.7	2166.0	2162.0	2162.0	2153.9	2151.2	2148.5
5°	2202.5	2189.0	2179.5	2167.4	2157.9	2149.8	2139.0	2136.3	2126.9	2120.1	2117.4
7.5°	2243.0	2222.7	2202.5	2187.6	2174.1	2156.6	2144.4	2133.6	2124.2	2117.4	2109.3
10°	2320.0	2298.4	2270.0	2243.0	2225.4	2198.4	2179.5	2160.6	2149.8	2141.7	2130.9
12.5°	2433.4	2402.3	2368.6	2336.2	2306.5	2271.3	2252.4	2229.5	2216.0	2209.2	2201.1
15°	2549.5	2515.8	2473.9	2442.8	2409.1	2382.1	2364.5	2344.3	2333.5	2325.4	2320.0
17.5°	2668.4	2629.2	2599.5	2568.4	2552.2	2532.0	2509.0	2483.4	2452.3	2433.4	2407.7
20°	2789.9	2760.2	2742.6	2725.1	2706.2	2677.8	2631.9	2579.2	2521.2	2465.8	2413.1
22.5°	2931.7	2914.1	2911.4	2895.2	2856.1	2788.5	2703.5	2604.9	2506.3	2414.5	2342.9
25°	3131.5	3131.5	3118.0	3051.9	2960.0	2838.5	2695.4	2553.6	2422.6	2297.0	2202.5
27.5°	3382.7	3373.3	3307.1	3170.7	3006.0	2816.9	2625.1	2445.5	2278.1	2140.4	2018.8
30°	3659.5	3593.4	3451.6	3236.9	2989.8	2746.7	2511.7	2303.8	2106.6	1937.8	1794.7
32.5°	3947.2	3786.5	3531.3	3236.9	2933.0	2641.4	2369.9	2114.7	1889.2	1700.1	1530.0
35°	4207.8	3914.8	3550.2	3184.2	2822.3	2486.1	2171.4	1882.4	1612.4	1408.5	1222.1
37.5°	4444.1	3999.8	3529.9	3081.6	2661.6	2267.3	1898.6	1580.0	1274.8	1077.6	918.3
40°	4598.1	4017.4	3446.2	2920.9	2432.0	1971.6	1563.7	1207.2	965.5	785.9	679.2
42.5°	4693.9	3983.6	3311.1	2700.8	2122.8	1600.2	1173.5	865.6	686.0	586.1	545.6
45°	4748.0	3895.9	3111.3	2399.6	1748.7	1216.7	833.2	625.2	528.0	492.9	479.4
47.5°	4745.3	3754.1	2861.5	2051.2	1335.5	848.0	590.1	487.5	460.5	449.7	447.0
50°	4716.9	3579.9	2568.4	1673.1	964.2	591.5	467.2	437.5	430.8	424.0	421.3
52.5°	4677.7	3363.8	2244.3	1304.5	684.6	472.6	424.0	415.9	410.5	403.8	401.1
55°	4604.8	3097.8	1893.2	981.7	536.1	426.7	409.2	406.5	399.7	390.3	384.9
57.5°	4515.7	2827.7	1557.0	767.0	474.0	415.9	406.5	402.4	393.0	382.2	371.4
60°	4483.3	2604.9	1293.7	646.8	459.1	420.0	413.2	407.8	394.3	378.1	366.0
62.5°	4280.7	2353.7	1104.6	599.6	467.2	437.5	434.8	426.7	406.5	387.6	368.7
65°	3756.8	1990.5	935.8	567.2	483.4	467.2	469.9	457.8	437.5	411.9	378.1
67°	3177.5	1623.2	779.2	536.1	495.6	498.3	507.7	498.3	472.6	436.2	390.3
67.5°	3023.5	1530.0	740.0	526.7	498.3	506.4	517.2	510.4	484.8	442.9	395.7
70°	2247.0	1077.6	552.3	476.7	498.3	530.7	555.0	561.8	533.4	475.3	406.5
72.5°	1582.7	695.4	424.0	413.2	452.4	495.6	541.5	564.5	532.1	468.6	391.6
75°	950.7	434.8	344.3	351.1	380.8	425.4	461.8	471.3	430.8	390.3	338.9
77.5°	440.2	289.0	270.1	279.5	307.9	328.1	328.1	309.2	278.2	253.9	243.1
80°	259.3	236.3	235.0	252.5	271.4	256.6	233.6	208.0	191.8	183.7	179.6
82.5°	243.1	252.5	268.7	272.8	257.9	221.5	193.1	167.4	159.3	155.3	151.2
85°	286.3	306.5	279.5	257.9	228.2	186.4	151.2	129.6	125.6	121.5	116.1
87.5°	264.7	252.5	220.1	189.1	156.6	113.4	82.4	74.3	79.7	78.3	75.6
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: P158478

CATALOG NUMBER: VST-E08-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2207.9	2207.9	2207.9	2207.9	2207.9
2.5°	2149.8	2149.8	2144.4	2141.7	2148.5
5°	2112.0	2113.4	2109.3	2108.0	2109.3
7.5°	2103.9	2102.6	2099.8	2097.1	2099.8
10°	2128.2	2126.9	2122.8	2125.5	2121.5
12.5°	2201.1	2209.2	2207.9	2210.6	2216.0
15°	2320.0	2318.6	2314.6	2317.3	2321.3
17.5°	2387.5	2376.7	2367.2	2363.2	2363.2
20°	2371.3	2340.2	2324.0	2314.6	2311.9
22.5°	2275.4	2230.8	2197.1	2189.0	2182.2
25°	2118.8	2063.4	2020.2	2010.7	1993.2
27.5°	1936.5	1862.2	1810.9	1800.1	1790.6
30°	1697.4	1612.4	1552.9	1515.1	1527.3
32.5°	1405.8	1324.7	1255.9	1195.1	1185.6
35°	1085.7	996.6	935.8	908.8	891.3
37.5°	810.2	736.0	695.4	669.8	671.1
40°	619.8	580.7	559.1	541.5	542.9
42.5°	517.2	499.6	494.2	486.1	482.1
45°	468.6	463.2	464.5	456.4	453.7
47.5°	441.6	437.5	438.9	433.5	432.1
50°	420.0	417.3	418.6	414.6	413.2
52.5°	398.4	399.7	398.4	395.7	395.7
55°	379.5	378.1	380.8	376.8	376.8
57.5°	364.6	363.3	363.3	361.9	361.9
60°	356.5	351.1	349.7	349.7	351.1
62.5°	352.5	343.0	341.6	341.6	343.0
65°	353.8	338.9	333.5	332.2	330.8
67°	355.2	333.5	322.7	317.3	316.0
67.5°	356.5	330.8	318.7	313.3	310.6
70°	348.4	311.9	294.4	284.9	282.2
72.5°	328.1	289.0	267.4	255.2	252.5
75°	291.7	262.0	243.1	229.6	224.2
77.5°	225.5	212.0	205.3	197.2	194.5
80°	175.6	168.8	166.1	160.7	159.3
82.5°	145.8	139.1	135.0	128.3	124.2
85°	113.4	105.3	102.6	97.2	94.5
87.5°	74.3	70.2	68.9	62.1	59.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)