

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: P158678

Luminaire Tested: **VST-E06-LED-E-U-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158678
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E06-LED-E-U-SL4-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14690.2 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 150.5
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



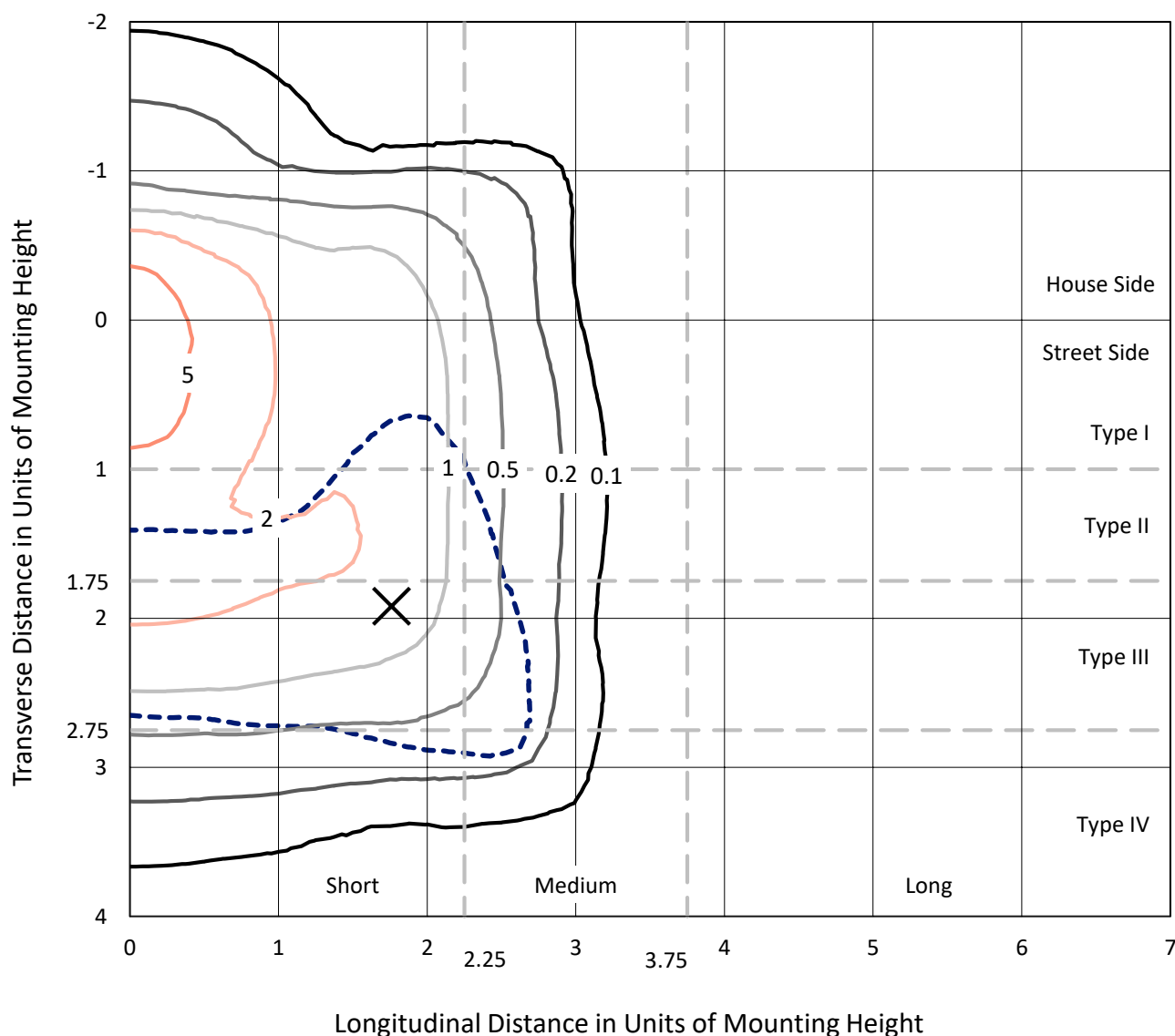
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

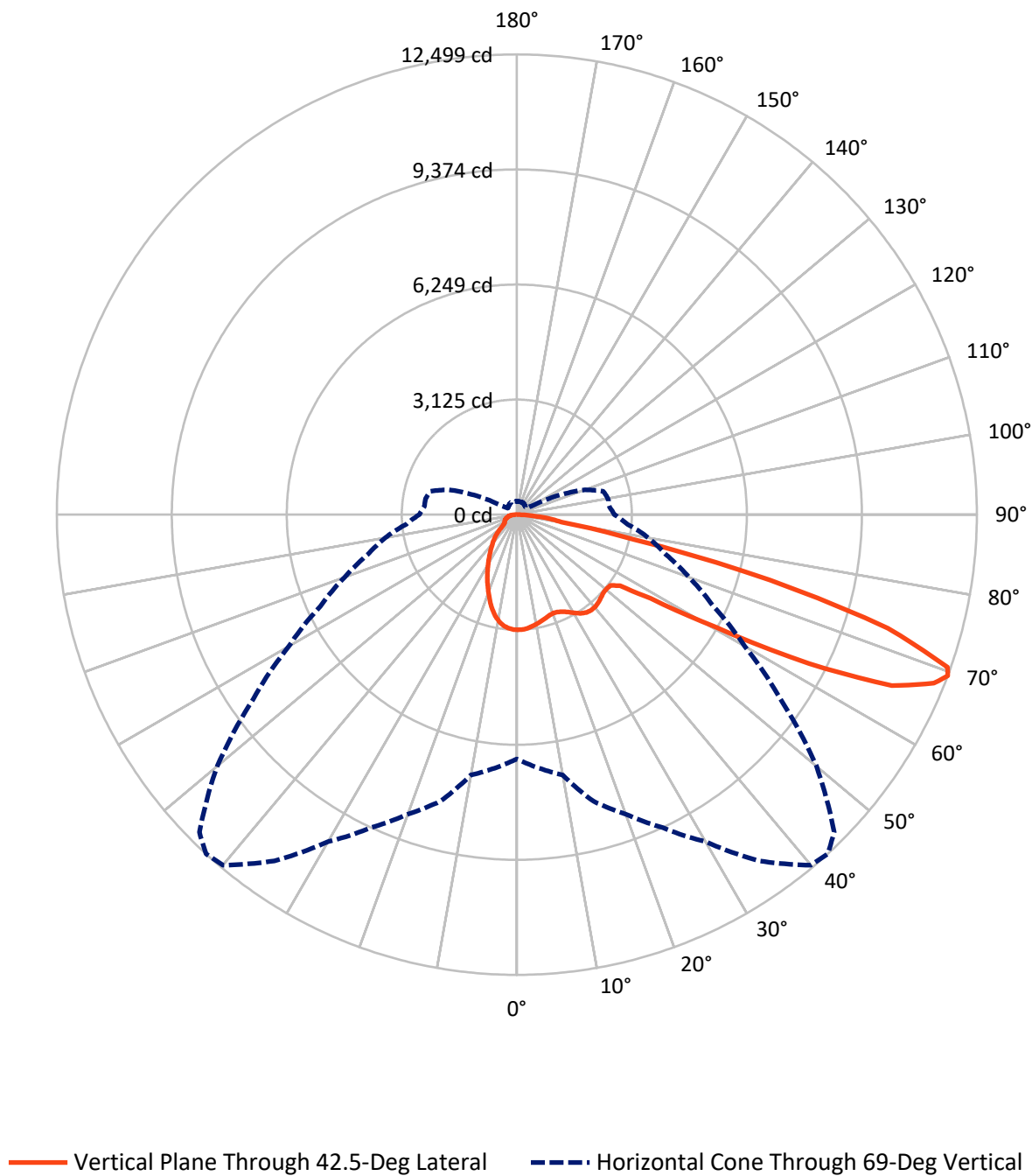


Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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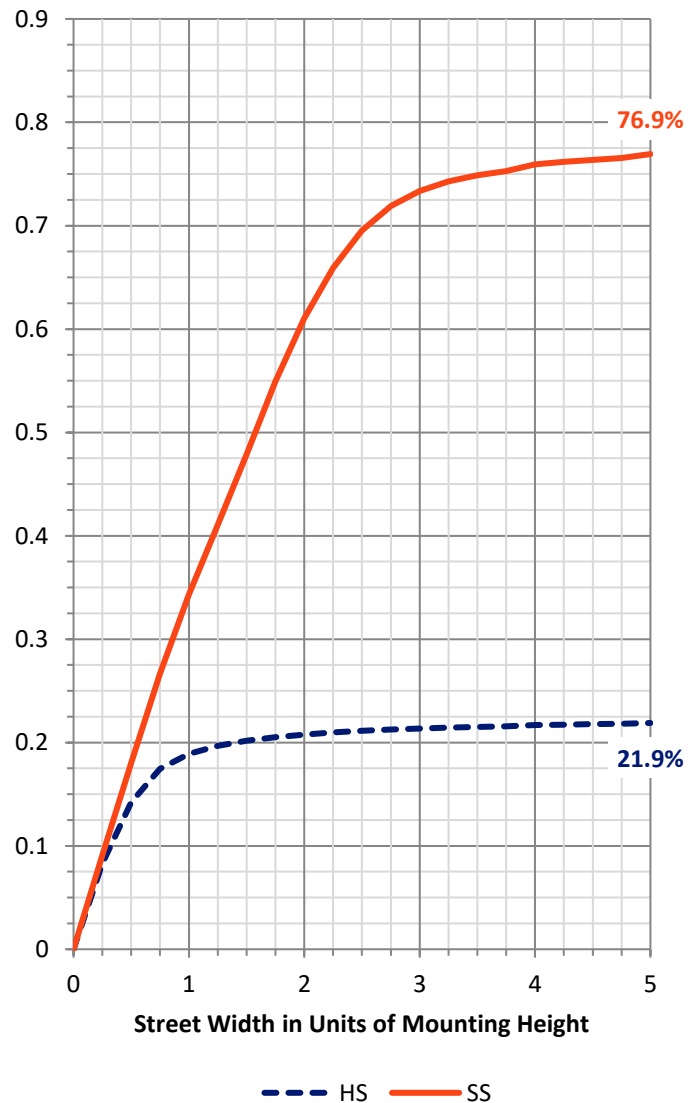
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3265.8	0.0	3265.8
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	11424.3	0.0	11424.3
	% Fixture	77.8	0.0	77.8
Total	Lumens	14690.2	0.0	14690.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	2.0
10°-20°	784.9	5.3
20°-30°	1144.5	7.8
30°-40°	1459.1	9.9
40°-50°	1697.6	11.6
50°-60°	2583.0	17.6
60°-70°	4562.7	31.1
70°-80°	1882.8	12.8
80°-90°	284.3	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°	14690.2	100.0
0°-180°	14690.2	100.0

Coefficient of Utilization



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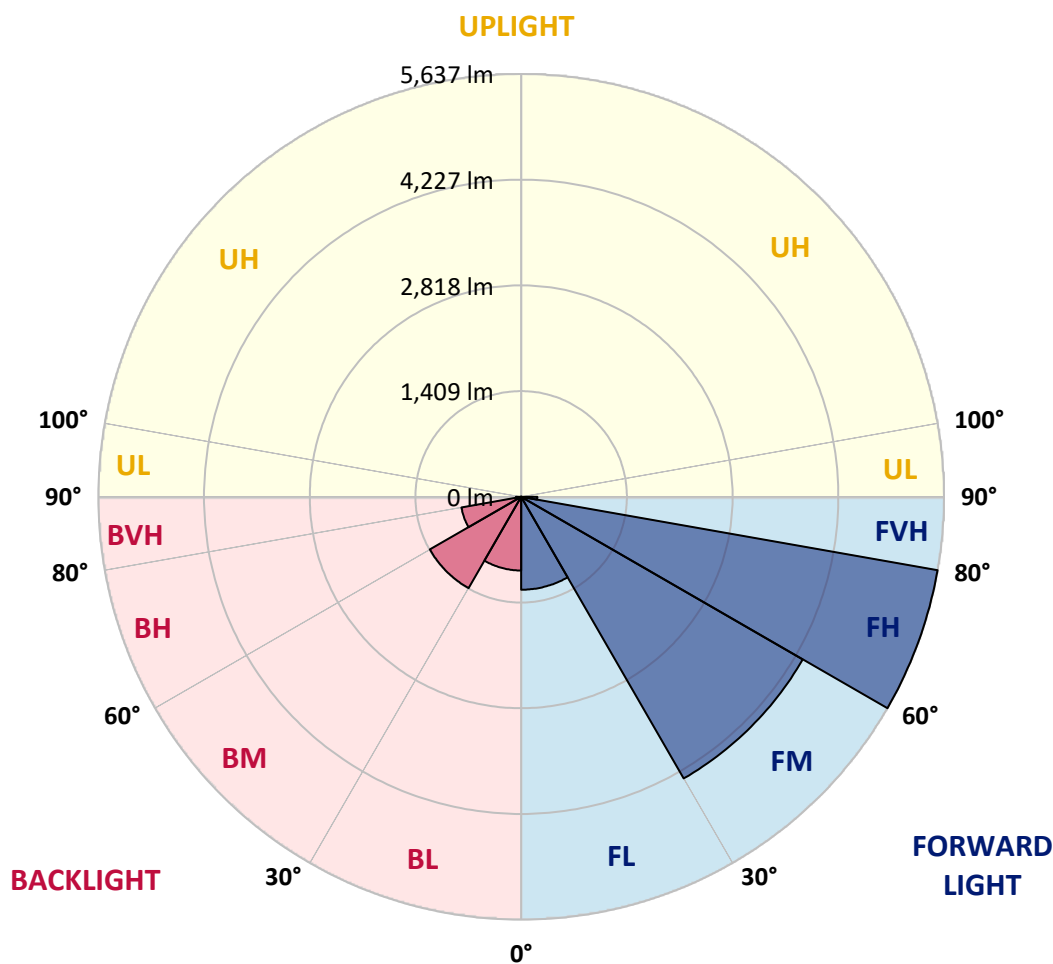
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1238.7	8.4			
FM	(30°-60°)	4334.0	29.5			
FH	(60°-80°)	5636.6	38.4			G3/7500
FVH	(80°-90°)	215.0	1.5			G2/225
BL	(0°-30°)	981.9	6.7	B2/1000		
BM	(30°-60°)	1405.7	9.6	B2/2500		
BH	(60°-80°)	808.9	5.5	B2/1000		G2/1000
BVH	(80°-90°)	69.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	42.5°	45°
0°	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5
2.5°	3118.4	3129.5	3125.5	3125.5	3128.5	3123.4	3123.4	3125.5	3120.4	3123.4	3122.4
5°	3107.2	3113.3	3111.3	3111.3	3111.3	3107.2	3105.2	3104.2	3097.1	3097.1	3094.1
7.5°	3082.9	3085.0	3088.0	3083.9	3082.9	3081.9	3074.8	3070.8	3062.7	3055.6	3057.6
10°	3050.5	3049.5	3054.6	3051.5	3047.5	3044.4	3038.4	3031.3	3022.2	3013.0	3012.0
12.5°	3014.1	3013.0	3017.1	3015.1	3012.0	3006.0	3000.9	2988.7	2974.6	2963.4	2962.4
15°	2990.8	2987.7	2991.8	2987.7	2982.7	2976.6	2967.5	2952.3	2927.0	2915.8	2906.7
17.5°	3013.0	3008.0	3010.0	3004.9	2997.9	2981.7	2960.4	2928.0	2891.5	2872.3	2858.1
20°	3091.0	3081.9	3083.9	3078.9	3062.7	3041.4	3000.9	2944.2	2882.4	2851.0	2828.7
22.5°	3202.4	3195.3	3198.4	3193.3	3177.1	3144.7	3083.9	3002.9	2914.8	2869.2	2833.8
25°	3371.6	3377.7	3379.7	3356.4	3347.3	3287.5	3203.5	3091.0	2973.5	2919.9	2871.3
27.5°	3562.0	3562.0	3571.1	3562.0	3543.7	3473.9	3355.4	3219.7	3068.8	2995.8	2937.1
30°	3747.3	3745.3	3762.5	3760.5	3731.1	3652.1	3517.4	3352.3	3180.2	3098.1	3023.2
32.5°	3943.8	3949.9	3961.0	3957.0	3918.5	3809.1	3647.1	3467.8	3286.5	3196.4	3112.3
35°	4156.5	4159.5	4163.6	4161.6	4083.6	3945.8	3742.3	3541.7	3353.3	3264.2	3177.1
37.5°	4369.2	4366.1	4361.1	4317.5	4228.4	4037.0	3800.0	3584.3	3386.8	3290.6	3200.4
40°	4559.6	4542.4	4526.2	4458.3	4321.6	4088.6	3822.3	3594.4	3383.7	3284.5	3196.4
42.5°	4663.9	4644.7	4611.2	4526.2	4360.1	4093.7	3807.1	3564.0	3352.3	3254.1	3167.0
45°	4683.1	4669.0	4636.5	4541.3	4350.9	4061.3	3760.5	3514.4	3305.7	3207.5	3125.5
47.5°	4637.6	4626.4	4595.0	4500.8	4311.4	4012.7	3706.8	3461.7	3260.2	3168.0	3089.0
50°	4567.7	4557.6	4533.2	4447.2	4266.9	3979.2	3679.5	3434.4	3245.0	3160.9	3088.0
52.5°	4681.1	4689.2	4618.3	4524.1	4314.5	4008.6	3709.8	3462.7	3272.3	3189.3	3113.3
55°	6444.4	6433.2	6006.9	5649.3	5010.3	4431.0	3998.5	3687.6	3484.0	3400.9	3330.1
57.5°	8373.7	8335.3	8160.0	7825.8	7139.2	6222.6	5389.1	4680.1	4400.6	4281.1	4289.2
60°	9003.7	9017.9	8980.4	8861.9	8615.8	8138.8	7504.8	6972.0	6447.4	6191.2	6220.6
62.5°	9353.1	9378.4	9410.8	9384.5	9304.5	9194.1	9114.1	9162.7	9089.8	8905.5	8758.6
65°	9401.7	9453.4	9560.7	9645.8	9687.3	9791.6	10036.7	10624.2	11160.9	11196.4	10938.1
67.5°	8439.6	8582.4	8815.3	9209.3	9546.6	9917.2	10508.7	11402.0	12194.0	12220.3	11979.3
69°	6635.8	6910.3	7182.7	8062.8	8655.3	9381.5	10256.5	11476.9	12425.9	12498.8	12195.0
70°	5317.1	5480.2	5715.2	6599.3	7484.5	8410.2	9678.2	11229.8	12266.9	12413.8	12078.5
72.5°	3192.3	3255.1	3336.1	3653.1	4108.9	4933.3	6614.5	9155.6	10347.7	10544.1	10117.8
75°	2064.1	2060.0	2067.1	2155.2	2181.5	2339.5	2869.2	4710.5	6750.2	7106.7	6596.3
77.5°	1554.6	1568.8	1546.5	1554.6	1547.5	1590.1	1606.3	1686.3	2664.6	3282.4	2935.1
80°	1372.3	1379.4	1380.4	1376.4	1326.8	1322.7	1349.0	1303.5	1211.3	1229.5	1177.9
82.5°	782.9	781.9	791.0	859.9	888.2	981.4	1019.9	1041.1	961.1	901.4	815.3
85°	507.4	511.5	521.6	542.9	521.6	529.7	520.6	538.8	494.2	458.8	410.2
87.5°	207.6	207.6	220.8	240.0	223.8	219.8	188.4	186.4	158.0	142.8	111.4
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-E06-LED-E-U-SL4-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5
2.5°	3116.4	3122.4	3119.4	3123.4	3120.4	3120.4	3116.4	3115.3	3118.4	3114.3	3115.3
5°	3089.0	3090.0	3085.0	3087.0	3080.9	3078.9	3075.8	3067.7	3072.8	3067.7	3069.8
7.5°	3049.5	3046.5	3039.4	3029.3	3022.2	3019.1	3013.0	3001.9	3003.9	2994.8	2999.9
10°	2998.9	2988.7	2976.6	2961.4	2951.3	2942.2	2929.0	2915.8	2908.7	2900.6	2899.6
12.5°	2942.2	2930.0	2913.8	2890.5	2868.2	2853.0	2832.8	2809.5	2802.4	2789.2	2782.1
15°	2880.4	2861.1	2841.9	2815.6	2791.2	2768.0	2740.6	2711.2	2692.0	2671.7	2656.5
17.5°	2824.7	2802.4	2777.1	2751.7	2725.4	2697.1	2662.6	2626.2	2597.8	2560.3	2529.9
20°	2781.1	2752.8	2727.4	2701.1	2671.7	2637.3	2595.8	2549.2	2501.6	2460.1	2424.6
22.5°	2763.9	2719.3	2689.0	2662.6	2633.3	2592.7	2542.1	2487.4	2429.7	2372.0	2325.4
25°	2778.1	2712.2	2664.6	2633.3	2607.9	2566.4	2509.7	2442.8	2376.0	2307.1	2244.3
27.5°	2819.6	2735.5	2666.7	2617.0	2587.7	2546.2	2486.4	2415.5	2336.5	2259.5	2182.6
30°	2884.4	2775.0	2687.9	2618.1	2572.5	2524.9	2462.1	2380.1	2300.0	2211.9	2127.9
32.5°	2947.2	2816.6	2712.2	2622.1	2552.2	2490.4	2420.6	2339.5	2253.5	2161.3	2074.2
35°	2991.8	2843.9	2721.4	2613.0	2520.8	2443.9	2368.9	2287.9	2203.8	2109.6	2020.5
37.5°	3013.0	2859.1	2722.4	2588.7	2479.3	2394.2	2314.2	2234.2	2155.2	2066.1	1982.0
40°	3012.0	2858.1	2708.2	2557.3	2429.7	2339.5	2260.5	2182.6	2108.6	2030.6	1954.7
42.5°	2989.8	2841.9	2687.9	2526.9	2394.2	2294.0	2211.9	2137.0	2074.2	2005.3	1941.5
45°	2955.3	2814.5	2666.7	2512.7	2384.1	2283.8	2196.7	2123.8	2068.1	2005.3	1950.6
47.5°	2929.0	2799.3	2669.7	2538.0	2415.5	2311.2	2219.0	2139.0	2091.4	2040.8	2002.3
50°	2933.0	2806.4	2679.8	2553.2	2437.8	2332.5	2243.3	2170.4	2136.0	2122.8	2113.7
52.5°	2954.3	2817.6	2710.2	2634.3	2594.8	2515.8	2463.1	2417.5	2442.8	2393.2	2334.5
55°	3225.7	3181.2	3285.5	3383.7	3508.3	3554.9	3510.3	3502.2	3542.7	3374.6	2988.7
57.5°	4346.9	4462.3	4623.4	4708.5	4811.8	4784.4	4681.1	4595.0	4493.7	4297.3	3816.2
60°	6254.0	6166.9	6094.0	5888.4	5720.2	5523.8	5305.0	5117.6	4938.4	4655.8	4135.2
62.5°	8218.8	7614.1	7108.8	6620.6	6227.6	5901.5	5584.5	5303.0	5031.5	4637.6	4077.5
65°	9918.2	8645.2	7696.2	6980.1	6405.9	5910.6	5503.5	5114.6	4769.2	4307.4	3753.4
67.5°	10681.9	9086.7	7706.3	6680.4	5885.3	5212.8	4686.2	4098.8	3711.9	3416.1	3104.2
69°	10625.2	8749.5	7156.4	5893.4	4979.9	4196.0	3630.8	3018.1	2647.4	2521.8	2514.8
70°	10355.8	8178.3	6514.3	5254.3	4209.2	3430.3	2888.5	2338.5	1993.2	1907.1	2060.0
72.5°	8454.8	5779.0	4082.6	3117.4	2397.3	1894.9	1545.5	1226.5	979.4	848.7	877.1
75°	4775.3	2675.8	1729.8	1307.5	1105.0	913.5	783.9	668.4	604.6	491.2	388.9
77.5°	1735.9	1148.5	913.5	790.0	560.1	385.9	323.1	282.6	256.2	256.2	244.1
80°	1097.9	864.9	603.6	413.2	305.9	266.4	232.9	204.6	188.4	184.3	188.4
82.5°	685.7	529.7	338.3	259.3	217.7	195.5	170.1	148.9	135.7	132.7	138.8
85°	338.3	262.3	205.6	183.3	172.2	160.0	140.8	120.5	116.5	124.6	145.8
87.5°	101.3	90.1	73.9	77.0	81.0	79.0	62.8	54.7	51.7	67.9	106.3
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°	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5	3128.5
2.5°	3117.4	3116.4	3118.4	3115.3	3117.4	3118.4	3116.4	3125.5	3119.4	3120.4	3124.5
5°	3071.8	3069.8	3077.9	3075.8	3079.9	3083.9	3081.9	3095.1	3090.0	3094.1	3102.2
7.5°	2995.8	2999.9	3000.9	3000.9	3009.0	3022.2	3025.2	3033.3	3033.3	3044.4	3052.5
10°	2894.6	2895.6	2901.6	2900.6	2910.8	2924.9	2927.0	2941.1	2946.2	2964.4	2975.6
12.5°	2777.1	2772.0	2771.0	2770.0	2783.1	2798.3	2800.4	2824.7	2834.8	2851.0	2869.2
15°	2645.4	2632.2	2628.2	2636.3	2633.3	2642.4	2651.5	2664.6	2678.8	2711.2	2727.4
17.5°	2516.8	2490.4	2483.4	2474.2	2465.1	2465.1	2469.2	2485.4	2514.8	2532.0	2568.4
20°	2385.1	2353.7	2328.4	2304.1	2282.8	2274.7	2275.7	2296.0	2317.3	2345.6	2380.1
22.5°	2274.7	2227.1	2183.6	2151.2	2107.6	2106.6	2100.5	2106.6	2129.9	2137.0	2156.2
25°	2179.5	2115.7	2057.0	2004.3	1961.8	1939.5	1933.4	1931.4	1920.2	1917.2	1903.0
27.5°	2105.6	2028.6	1952.7	1888.9	1836.2	1805.8	1767.3	1740.0	1700.5	1690.3	1665.0
30°	2044.8	1961.8	1878.7	1795.7	1735.9	1681.2	1616.4	1568.8	1508.0	1468.5	1434.1
32.5°	1986.1	1902.0	1818.0	1735.9	1643.8	1558.7	1473.6	1399.7	1331.8	1271.1	1220.4
35°	1937.5	1857.5	1772.4	1673.1	1555.6	1433.1	1330.8	1246.7	1153.6	1089.8	1026.0
37.5°	1906.1	1833.1	1748.1	1611.3	1460.4	1328.8	1212.3	1110.0	1014.8	918.6	846.7
40°	1891.9	1828.1	1721.7	1554.6	1377.4	1231.6	1102.9	989.5	868.0	759.6	682.6
42.5°	1890.9	1826.1	1685.3	1491.8	1308.5	1149.5	1006.7	871.0	736.3	624.9	548.9
45°	1909.1	1823.0	1646.8	1439.2	1247.8	1081.7	911.5	746.4	595.5	512.5	472.0
47.5°	1957.7	1828.1	1615.4	1390.6	1190.0	999.6	802.1	609.7	485.1	446.6	446.6
50°	2044.8	1857.5	1607.3	1356.1	1132.3	904.4	668.4	492.2	429.4	429.4	441.6
52.5°	2178.5	1919.2	1621.5	1331.8	1060.4	778.8	526.7	424.4	412.2	423.3	439.6
55°	2486.4	2028.6	1640.7	1290.3	951.0	617.8	434.5	401.1	406.1	419.3	434.5
57.5°	3051.5	2262.6	1661.0	1199.1	774.8	476.0	394.0	391.9	401.1	413.2	426.4
60°	3423.2	2560.3	1712.6	1061.4	586.4	393.0	373.7	385.9	397.0	407.1	417.3
62.5°	3423.2	2644.4	1751.1	907.5	440.6	357.5	360.6	379.8	393.0	398.0	404.1
65°	3204.5	2490.4	1620.5	739.3	358.5	337.3	348.4	367.6	379.8	383.8	388.9
67.5°	2800.4	2199.8	1365.2	557.0	320.0	320.0	334.2	348.4	358.5	366.6	374.7
69°	2434.7	1973.9	1202.2	472.0	304.8	306.9	321.1	333.2	345.4	355.5	365.6
70°	2171.4	1804.8	1088.7	428.4	295.7	296.7	310.9	324.1	335.2	346.4	358.5
72.5°	1162.7	1246.7	827.4	351.4	272.4	275.5	288.6	300.8	310.9	322.1	333.2
75°	396.0	535.8	526.7	287.6	246.1	254.2	262.3	273.5	286.6	293.7	299.8
77.5°	231.9	240.0	280.5	234.0	221.8	225.9	235.0	244.1	255.2	262.3	267.4
80°	194.5	193.4	194.5	190.4	193.4	202.6	208.6	220.8	230.9	232.9	231.9
82.5°	158.0	166.1	167.1	165.1	174.2	181.3	186.4	193.4	192.4	194.5	198.5
85°	140.8	139.8	146.9	147.9	147.9	142.8	143.8	143.8	143.8	146.9	147.9
87.5°	140.8	117.5	91.2	82.0	86.1	81.0	77.0	76.0	84.1	92.2	90.1
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):

	160°	165°	170°	175°	180°
0°	3128.5	3128.5	3128.5	3128.5	3128.5
2.5°	3126.5	3129.5	3127.5	3127.5	3129.5
5°	3105.2	3110.3	3108.2	3110.3	3110.3
7.5°	3056.6	3063.7	3068.8	3073.8	3070.8
10°	2986.7	2998.9	3007.0	3013.0	3010.0
12.5°	2882.4	2893.5	2910.8	2920.9	2912.8
15°	2739.6	2771.0	2781.1	2795.3	2787.2
17.5°	2590.7	2610.0	2622.1	2635.3	2643.4
20°	2392.2	2407.4	2423.6	2429.7	2420.6
22.5°	2153.2	2161.3	2158.3	2167.4	2149.1
25°	1890.9	1895.9	1892.9	1901.0	1885.8
27.5°	1642.7	1641.7	1642.7	1632.6	1622.5
30°	1403.7	1394.6	1390.6	1375.4	1372.3
32.5°	1190.0	1158.6	1142.4	1120.1	1115.1
35°	976.3	931.8	902.4	877.1	865.9
37.5°	784.9	731.2	696.8	674.5	671.5
40°	620.8	571.2	546.9	534.8	532.7
42.5°	506.4	485.1	479.0	479.0	479.0
45°	461.8	460.8	465.9	469.9	470.9
47.5°	452.7	458.8	465.9	472.0	474.0
50°	452.7	458.8	463.9	469.9	472.0
52.5°	450.7	455.8	457.8	461.8	463.9
55°	444.6	447.7	447.7	449.7	451.7
57.5°	434.5	436.5	433.5	435.5	440.6
60°	424.4	426.4	421.3	426.4	429.4
62.5°	413.2	414.2	412.2	416.3	416.3
65°	395.0	393.0	396.0	399.0	400.1
67.5°	376.8	371.7	374.7	375.7	377.8
69°	362.6	359.5	360.6	362.6	364.6
70°	352.5	350.4	352.5	355.5	358.5
72.5°	327.1	328.1	335.2	341.3	347.4
75°	303.8	310.9	320.0	333.2	340.3
77.5°	275.5	280.5	287.6	301.8	315.0
80°	238.0	241.0	242.1	247.1	246.1
82.5°	193.4	190.4	188.4	186.4	185.3
85°	138.8	137.7	129.6	123.6	123.6
87.5°	83.0	79.0	74.9	69.9	66.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)