

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: P158008

Luminaire Tested: **VST-E05-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158008
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-E05-LED-E-U-RW-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13146.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

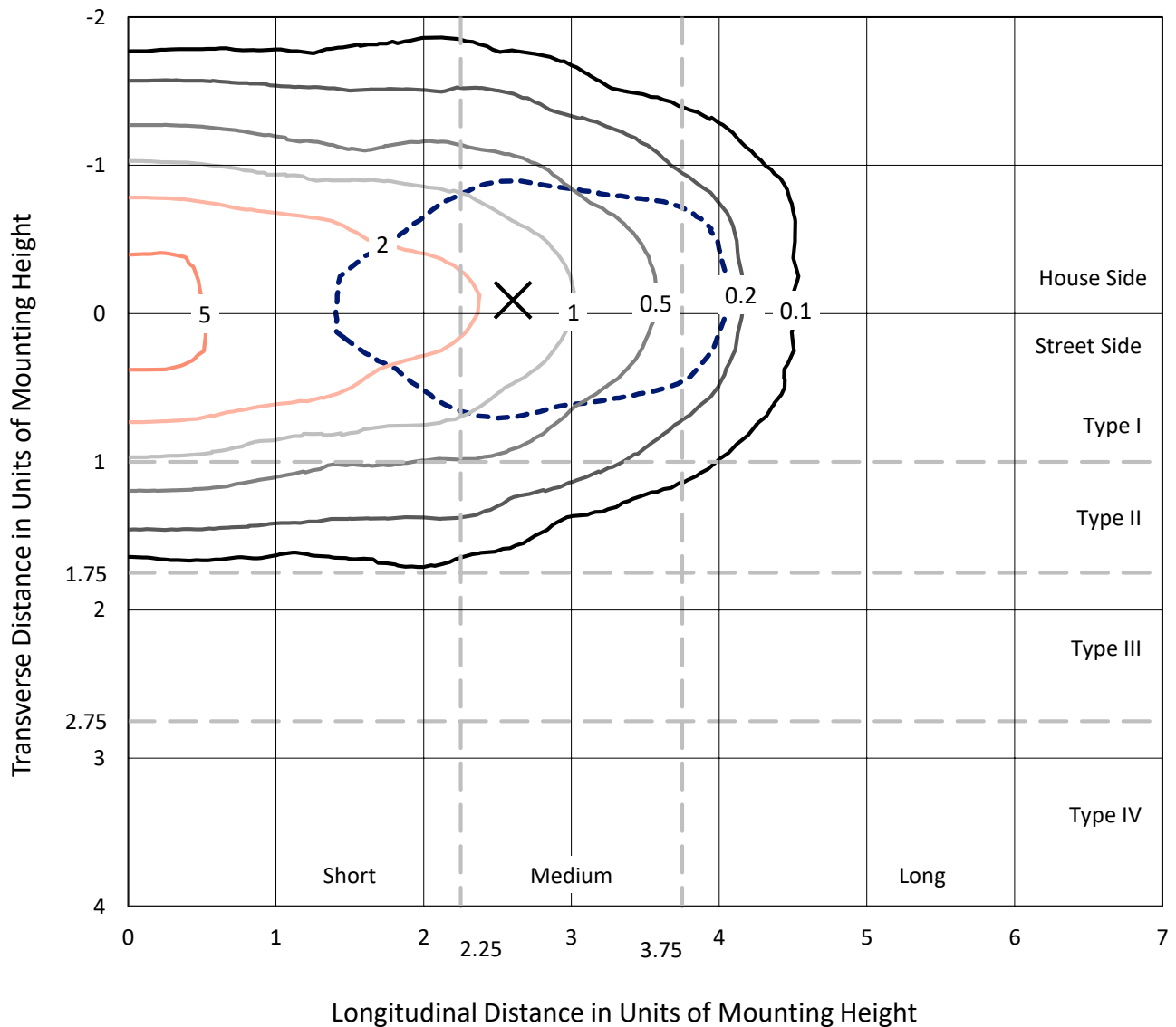
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

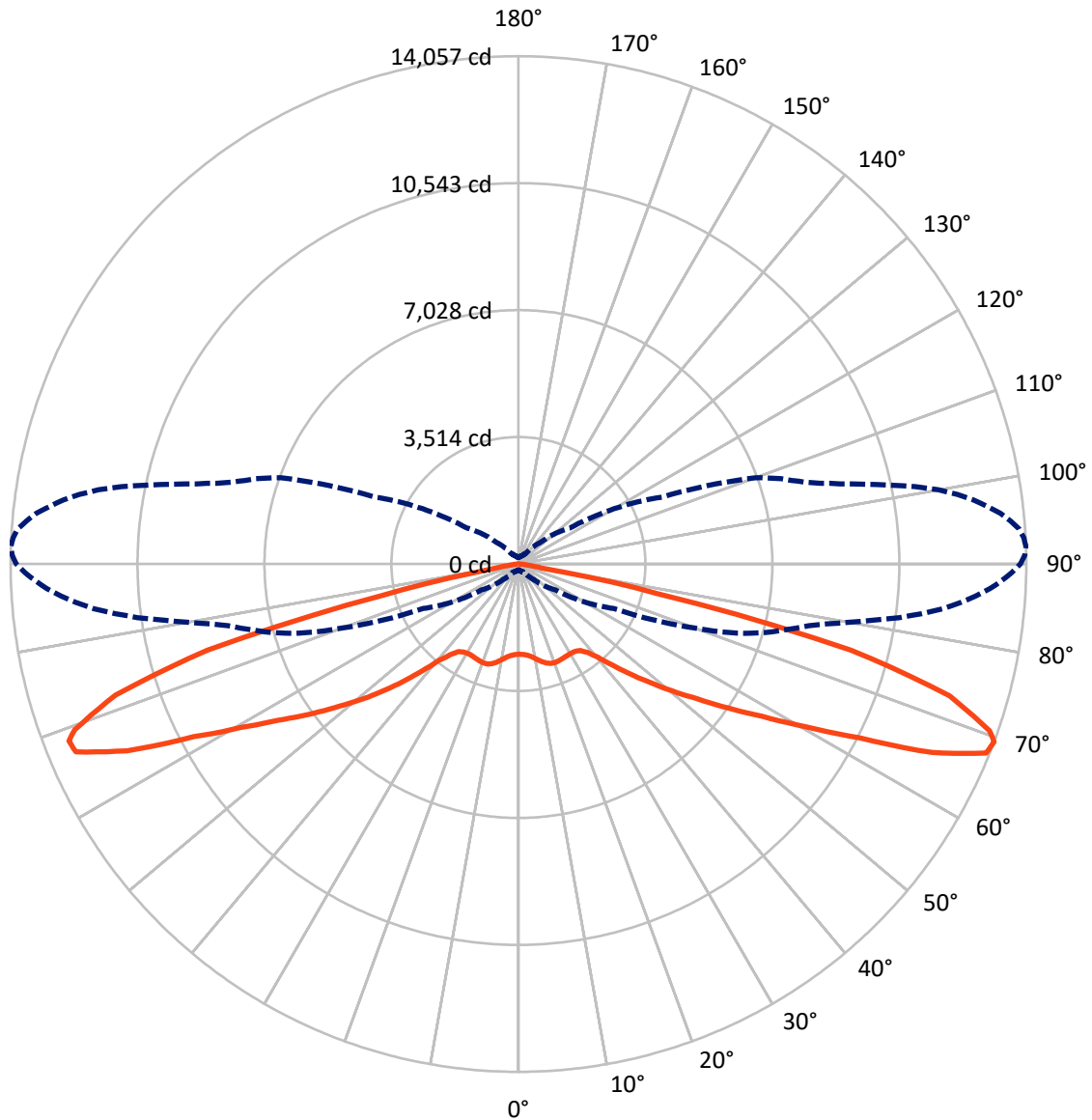
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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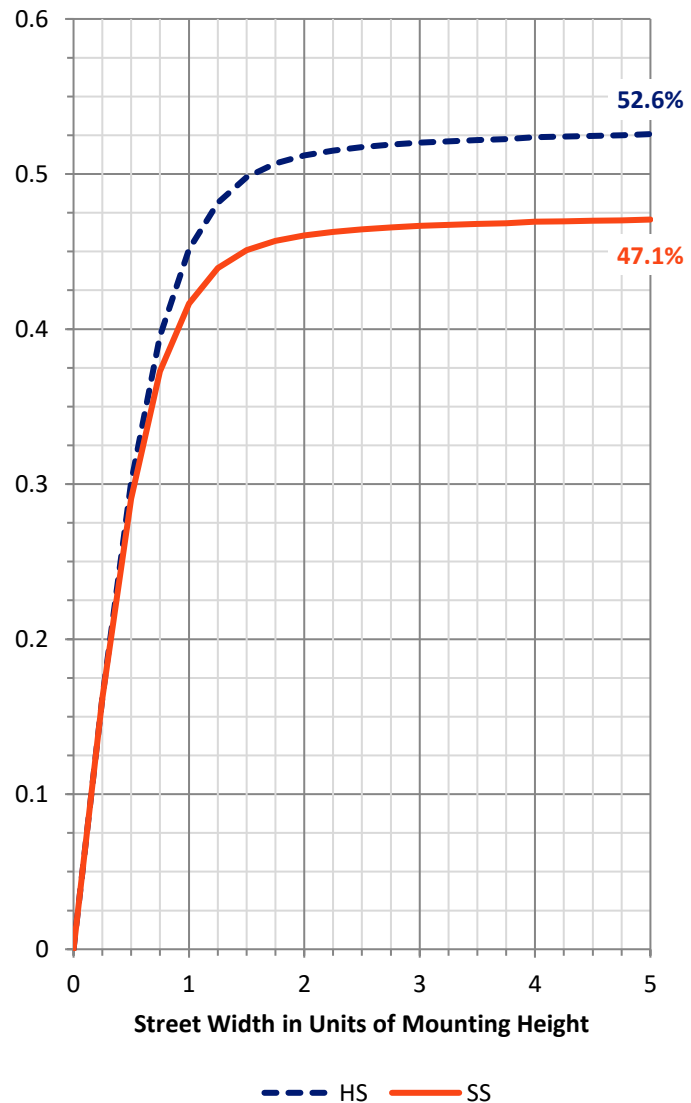
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6972.5	0.0	6972.5
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	6174.4	0.0	6174.4
	% Fixture	47.0	0.0	47.0
Total	Lumens	13146.9	0.0	13146.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	1.9
10°-20°	772.0	5.9
20°-30°	1252.4	9.5
30°-40°	1560.9	11.9
40°-50°	1943.5	14.8
50°-60°	2396.8	18.2
60°-70°	2976.6	22.6
70°-80°	1829.0	13.9
80°-90°	171.4	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°	13146.9	100.0
0°-180°	13146.9	100.0



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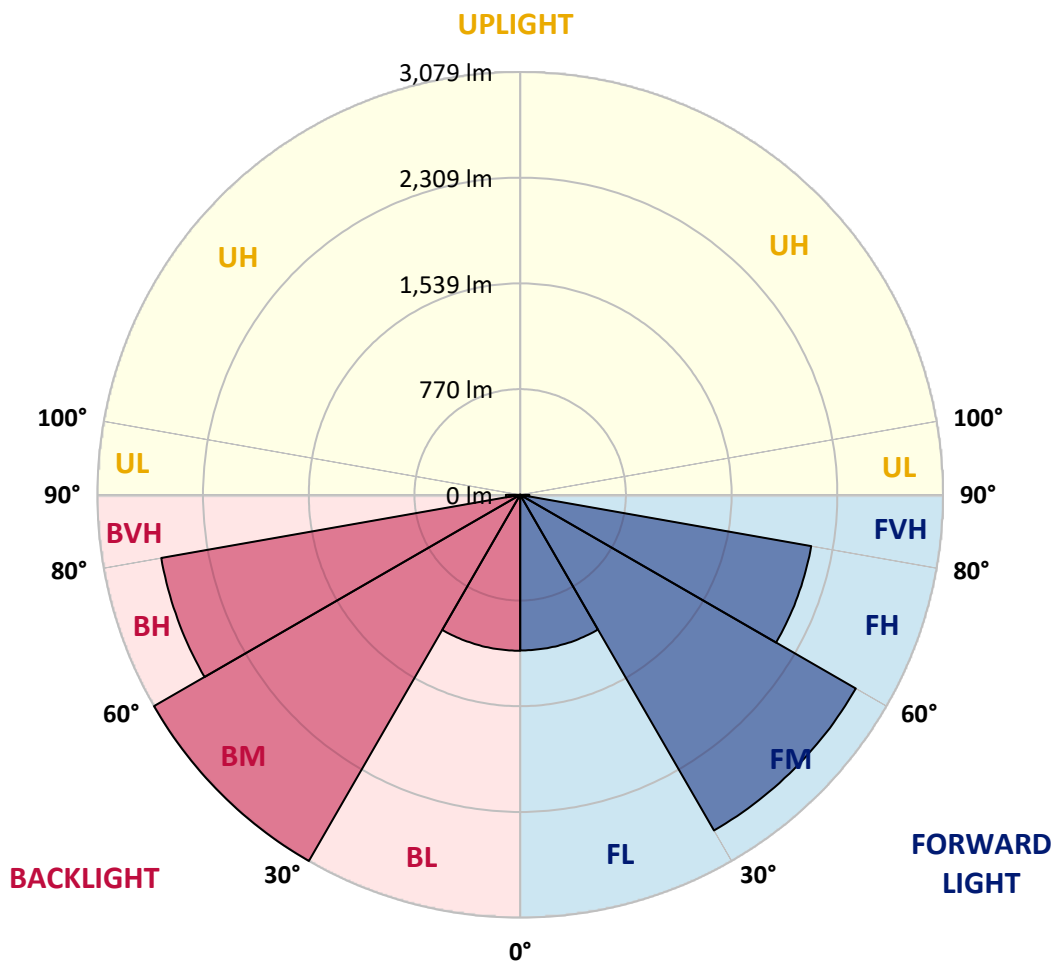
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1133.2	8.6			
FM	(30°-60°)	2822.1	21.5			
FH	(60°-80°)	2152.0	16.4			G2/5000
FVH	(80°-90°)	67.1	0.5			G1/100
BL	(0°-30°)	1135.6	8.6	B3/2500		
BM	(30°-60°)	3079.0	23.4	B3/5000		
BH	(60°-80°)	2653.6	20.2	B4/5000		G4/5000
BVH	(80°-90°)	104.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4
2.5°	2537.0	2530.3	2536.2	2537.0	2536.2	2536.2	2528.6	2526.9	2516.8	2519.3	2518.5
5°	2571.6	2569.1	2573.3	2575.0	2576.7	2573.3	2567.4	2564.9	2558.1	2555.6	2554.8
7.5°	2603.7	2599.5	2606.2	2612.2	2616.4	2617.2	2618.1	2613.8	2613.8	2610.5	2610.5
10°	2630.7	2627.3	2638.3	2645.9	2659.4	2667.0	2675.5	2681.4	2684.7	2685.6	2684.7
12.5°	2642.5	2640.0	2657.7	2680.5	2705.8	2723.6	2744.7	2759.9	2764.1	2763.2	2767.4
15°	2622.3	2624.0	2651.0	2695.7	2749.7	2794.5	2824.0	2836.7	2840.0	2841.7	2842.6
17.5°	2567.4	2570.8	2609.6	2682.2	2776.7	2857.8	2901.6	2901.6	2894.9	2894.9	2894.0
20°	2479.6	2483.0	2533.7	2638.3	2777.6	2901.6	2964.1	2951.4	2926.1	2921.1	2916.0
22.5°	2358.1	2371.6	2427.3	2548.9	2741.3	2914.3	3002.9	2984.4	2944.7	2933.7	2926.1
25°	2220.5	2218.9	2285.5	2422.3	2653.5	2883.9	3013.9	3010.5	2968.3	2956.5	2943.0
27.5°	2063.6	2068.6	2130.2	2268.6	2519.3	2796.1	2995.3	3040.1	3005.5	2993.6	2981.0
30°	1902.4	1907.4	1965.7	2126.9	2366.6	2670.4	2957.3	3068.8	3055.2	3046.0	3037.5
32.5°	1740.3	1742.0	1811.2	1984.2	2237.4	2520.2	2900.0	3094.9	3113.5	3109.3	3105.9
35°	1588.4	1590.1	1665.2	1840.7	2110.0	2391.9	2830.7	3132.9	3192.8	3197.9	3201.3
37.5°	1440.7	1443.2	1520.0	1704.0	1984.2	2294.8	2753.9	3191.1	3304.2	3322.8	3326.2
40°	1293.8	1296.4	1369.8	1564.8	1856.8	2209.6	2694.9	3273.0	3454.5	3479.8	3505.9
42.5°	1153.7	1163.0	1225.5	1412.0	1715.0	2104.1	2669.5	3372.6	3632.5	3672.2	3701.7
45°	1022.9	1023.8	1094.7	1269.4	1547.0	1961.4	2652.7	3485.7	3831.7	3891.6	3932.2
47.5°	882.8	892.9	967.2	1136.9	1390.1	1785.0	2598.6	3618.2	4048.6	4118.7	4200.5
50°	746.9	761.3	833.0	1001.0	1246.6	1602.7	2453.5	3773.5	4292.5	4383.7	4478.2
52.5°	616.1	615.3	691.2	865.9	1102.3	1448.3	2218.0	3936.4	4574.4	4672.3	4774.5
55°	465.9	465.9	541.0	700.5	946.1	1310.7	1965.7	4037.7	4836.1	4954.2	5065.6
57.5°	319.9	328.3	399.2	536.8	783.2	1185.0	1772.4	3979.4	5036.1	5182.9	5315.5
60°	237.2	245.6	297.9	385.7	612.7	1036.4	1627.2	3705.1	5156.8	5351.7	5523.9
62.5°	205.1	211.0	260.8	308.9	441.4	878.6	1498.9	3356.6	5330.6	5597.3	5837.0
65°	183.1	189.1	238.8	266.7	345.2	706.4	1427.2	3157.4	5538.3	5945.9	6293.6
67.5°	169.6	176.4	218.6	238.8	301.3	638.9	1371.5	3111.0	5536.6	6031.2	6475.1
69°	162.9	168.0	202.6	224.5	291.2	618.6	1250.8	2909.2	5171.1	5702.0	6147.6
70°	158.7	163.7	193.3	215.2	287.8	582.4	1139.4	2642.5	4755.0	5289.3	5741.7
72.5°	145.2	150.2	172.2	192.4	239.7	389.1	794.2	1691.4	3397.9	3779.4	4296.8
75°	128.3	134.2	151.1	168.0	181.5	225.3	458.3	877.8	1942.9	2232.4	2693.2
77.5°	104.7	110.6	128.3	155.3	153.6	171.3	297.9	539.3	909.8	1128.4	1298.9
80°	86.1	90.3	105.5	157.0	125.8	143.5	241.4	442.3	640.6	708.1	748.6
82.5°	57.4	63.3	81.9	123.2	96.2	102.1	180.6	413.6	541.8	594.2	643.1
85°	27.0	29.5	49.8	65.8	58.2	54.9	103.0	292.0	403.4	427.9	446.5
87.5°	0.0	0.0	2.5	5.1	7.6	7.6	18.6	61.6	113.1	136.7	135.0
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4
2.5°	2515.1	2515.9	2515.1	2515.1	2514.2	2512.6	2512.6	2510.9	2511.7	2510.9	2512.6
5°	2553.9	2553.9	2551.4	2549.7	2552.2	2549.7	2550.5	2546.3	2546.3	2543.8	2540.4
7.5°	2609.6	2609.6	2610.5	2605.4	2608.8	2609.6	2607.1	2605.4	2603.7	2599.5	2600.3
10°	2683.9	2683.9	2686.4	2679.7	2683.0	2684.7	2685.6	2685.6	2683.9	2676.3	2677.1
12.5°	2766.6	2764.9	2765.8	2762.4	2765.8	2767.4	2769.1	2767.4	2767.4	2765.8	2764.9
15°	2841.7	2840.9	2842.6	2840.0	2840.9	2842.6	2847.6	2846.8	2845.9	2840.9	2840.9
17.5°	2893.2	2890.7	2889.0	2888.1	2888.1	2887.3	2888.1	2888.1	2885.6	2884.8	2884.8
20°	2912.6	2905.9	2901.6	2899.1	2895.7	2894.0	2892.4	2893.2	2891.5	2889.0	2889.8
22.5°	2916.0	2906.7	2898.3	2890.7	2883.9	2879.7	2875.5	2873.8	2869.6	2867.0	2867.0
25°	2932.0	2917.7	2904.2	2891.5	2881.4	2872.1	2862.8	2856.1	2851.0	2845.1	2843.4
27.5°	2967.5	2952.3	2936.2	2920.2	2906.7	2888.1	2875.5	2862.0	2850.2	2840.9	2834.1
30°	3022.3	3007.1	2991.1	2972.5	2954.8	2935.4	2914.3	2898.3	2881.4	2862.8	2852.7
32.5°	3094.9	3084.8	3068.8	3051.0	3035.0	3014.7	2989.4	2964.9	2948.9	2927.0	2910.9
35°	3198.7	3186.9	3181.8	3174.2	3158.2	3145.6	3117.7	3094.9	3079.7	3049.3	3037.5
37.5°	3340.5	3339.7	3343.9	3341.4	3343.9	3327.9	3315.2	3314.4	3292.4	3262.9	3234.2
40°	3533.8	3543.9	3566.7	3582.7	3597.9	3599.6	3617.3	3598.8	3601.3	3597.1	3567.5
42.5°	3754.1	3788.7	3815.7	3862.9	3899.2	3933.0	3955.8	3987.0	4010.6	4031.7	4036.8
45°	3999.7	4051.2	4113.6	4155.8	4226.7	4283.3	4360.9	4420.8	4483.3	4544.9	4566.8
47.5°	4266.4	4330.5	4399.7	4478.2	4567.7	4656.3	4776.1	4868.1	4968.6	5052.1	5126.4
50°	4560.9	4627.6	4720.4	4810.7	4934.0	5036.1	5193.1	5313.8	5475.8	5587.2	5683.4
52.5°	4868.1	4951.7	5055.5	5155.1	5280.9	5411.7	5586.4	5764.5	5959.4	6128.2	6268.3
55°	5168.6	5271.6	5371.2	5487.6	5626.9	5778.8	5976.3	6210.9	6454.0	6647.3	6833.0
57.5°	5436.1	5555.1	5672.5	5790.6	5933.3	6109.7	6331.6	6584.8	6863.3	7120.8	7375.6
60°	5684.3	5826.9	5970.4	6118.1	6281.8	6499.6	6766.3	7077.7	7438.1	7790.0	8123.4
62.5°	6076.7	6264.1	6442.2	6632.9	6830.4	7086.1	7401.0	7809.4	8223.0	8662.7	9004.5
65°	6608.4	6871.8	7104.7	7352.0	7607.7	7949.6	8326.0	8814.6	9407.1	9857.8	10406.4
67.5°	6872.6	7219.5	7519.1	7794.3	8110.8	8455.9	8903.3	9481.4	10113.5	10766.8	11378.7
69°	6562.0	6919.9	7251.6	7559.6	7879.5	8214.6	8682.1	9275.5	9943.9	10650.3	11247.9
70°	6159.4	6517.3	6870.9	7222.0	7514.1	7840.7	8309.9	8921.8	9589.4	10323.7	10916.2
72.5°	4718.8	5149.2	5469.1	5798.2	6136.7	6413.5	6955.3	7471.0	8166.5	8911.7	9564.1
75°	3019.0	3414.8	3764.2	4044.4	4375.2	4706.9	5107.0	5680.1	6115.6	6727.5	7256.6
77.5°	1551.3	1668.6	2005.3	2105.8	2335.3	2515.9	2736.2	2879.7	3234.2	3309.3	3621.6
80°	735.1	662.5	623.7	588.3	598.4	594.2	576.4	552.8	582.4	569.7	564.6
82.5°	640.6	571.4	455.8	387.4	335.1	284.4	244.8	224.5	227.0	233.8	236.3
85°	449.0	422.0	329.2	249.8	195.0	151.1	121.5	116.5	119.8	129.1	125.8
87.5°	130.0	135.9	119.8	83.6	58.2	42.2	32.9	37.1	35.4	34.6	36.3
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4
2.5°	2512.6	2511.7	2509.2	2506.7	2506.7	2505.0	2506.7	2507.5	2506.7	2506.7	2505.0
5°	2541.3	2542.1	2544.6	2539.6	2538.7	2539.6	2536.2	2535.3	2532.8	2535.3	2532.0
7.5°	2596.1	2598.6	2598.6	2595.3	2594.4	2597.0	2591.9	2590.2	2587.7	2586.8	2586.0
10°	2678.0	2680.5	2676.3	2673.8	2671.2	2674.6	2670.4	2670.4	2667.9	2665.3	2664.5
12.5°	2769.1	2767.4	2765.8	2767.4	2764.9	2764.9	2762.4	2760.7	2759.9	2759.0	2757.3
15°	2840.0	2845.9	2845.9	2847.6	2845.9	2845.9	2842.6	2843.4	2841.7	2840.9	2841.7
17.5°	2885.6	2887.3	2891.5	2894.0	2894.0	2894.9	2893.2	2894.9	2893.2	2893.2	2896.6
20°	2891.5	2893.2	2897.4	2901.6	2904.2	2905.9	2905.9	2908.4	2910.1	2911.8	2916.0
22.5°	2867.9	2870.4	2875.5	2883.1	2887.3	2889.0	2892.4	2896.6	2900.8	2904.2	2910.1
25°	2843.4	2844.2	2849.3	2856.9	2862.0	2866.2	2872.1	2877.2	2883.1	2889.8	2896.6
27.5°	2829.9	2829.1	2833.3	2840.9	2845.1	2851.0	2856.1	2863.7	2870.4	2878.9	2884.8
30°	2841.7	2835.0	2835.8	2839.2	2842.6	2846.8	2852.7	2859.4	2867.0	2874.6	2881.4
32.5°	2894.0	2878.9	2868.7	2866.2	2867.0	2867.9	2871.3	2875.5	2881.4	2887.3	2889.8
35°	3007.1	2981.0	2967.5	2956.5	2947.2	2939.6	2941.3	2940.5	2940.5	2945.5	2939.6
37.5°	3222.4	3189.4	3175.1	3155.7	3144.7	3116.9	3109.3	3107.6	3096.6	3096.6	3083.9
40°	3560.0	3540.5	3529.6	3511.8	3458.7	3465.4	3427.4	3428.3	3397.1	3400.4	3378.5
42.5°	4040.2	4042.7	4029.2	4017.4	3976.0	3957.5	3922.0	3871.4	3831.7	3830.9	3787.0
45°	4595.5	4625.9	4582.9	4598.1	4561.8	4512.0	4470.6	4405.6	4344.0	4324.6	4279.9
47.5°	5176.2	5226.0	5193.1	5199.0	5181.3	5110.4	5054.7	4974.5	4894.3	4840.3	4813.3
50°	5796.5	5829.4	5828.6	5812.6	5804.1	5734.9	5645.5	5584.7	5525.6	5453.0	5429.4
52.5°	6358.6	6435.4	6486.9	6475.1	6450.6	6409.3	6329.9	6277.6	6190.7	6180.5	6190.7
55°	6960.4	7060.0	7112.3	7175.6	7176.5	7168.9	7135.9	7116.5	7035.5	7044.8	7033.0
57.5°	7530.1	7676.1	7756.3	7891.3	7937.7	7999.3	7976.6	8001.9	7952.9	7985.0	7975.7
60°	8302.3	8504.9	8638.2	8823.1	8909.2	9063.6	9094.0	9112.6	9139.6	9205.4	9168.3
62.5°	9273.8	9570.9	9847.7	10099.2	10181.9	10414.0	10452.0	10597.2	10604.7	10649.5	10567.6
65°	10863.9	11225.9	11530.6	11831.9	12005.8	12277.5	12387.3	12669.1	12583.1	12619.4	12444.6
67.5°	11905.3	12326.5	12735.0	13020.2	13308.9	13586.6	13786.6	13968.9	13967.2	13931.8	13776.5
69°	11813.3	12282.6	12685.2	13067.5	13371.3	13656.6	13897.2	14015.3	14056.7	14005.2	13894.6
70°	11495.2	11977.1	12470.0	12784.8	13115.6	13428.7	13676.9	13806.0	13834.7	13798.4	13703.0
72.5°	10024.9	10487.4	11031.0	11317.1	11717.1	11943.3	12285.1	12452.2	12481.8	12435.4	12372.9
75°	7823.8	7907.4	8461.0	8643.3	8933.6	9194.4	9407.1	9353.1	9504.2	9474.6	9451.0
77.5°	3685.7	3462.9	3821.6	3988.7	3900.9	3667.1	4007.3	3761.7	3924.6	4136.4	4082.4
80°	607.7	606.0	622.0	657.5	615.3	653.2	652.4	633.8	635.5	681.1	657.5
82.5°	233.8	238.8	241.4	248.1	248.1	249.0	253.2	258.3	254.0	262.5	260.8
85°	126.6	135.0	127.4	121.5	125.8	128.3	131.7	135.9	131.7	144.3	137.6
87.5°	32.9	34.6	30.4	30.4	29.5	27.0	27.0	28.7	31.2	37.1	40.5
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-E05-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4
2.5°	2501.6	2502.4	2503.3	2500.7	2499.1	2499.1	2498.2	2496.5	2495.7	2495.7	2495.7
5°	2530.3	2532.0	2527.8	2526.9	2525.2	2523.5	2523.5	2521.8	2522.7	2522.7	2518.5
7.5°	2587.7	2585.1	2580.1	2576.7	2580.1	2574.2	2571.6	2573.3	2571.6	2572.5	2570.8
10°	2664.5	2664.5	2658.6	2661.9	2657.7	2651.0	2653.5	2651.0	2649.3	2643.4	2646.8
12.5°	2759.9	2757.3	2753.9	2746.3	2743.8	2743.0	2735.4	2736.2	2733.7	2732.0	2729.5
15°	2843.4	2842.6	2835.0	2830.7	2829.9	2826.5	2823.1	2821.5	2817.2	2816.4	2814.7
17.5°	2899.1	2896.6	2893.2	2889.0	2889.0	2883.9	2882.2	2878.0	2877.2	2874.6	2872.1
20°	2917.7	2918.5	2915.1	2911.8	2910.1	2906.7	2904.2	2900.8	2899.1	2895.7	2893.2
22.5°	2913.5	2913.5	2910.1	2909.2	2905.9	2900.8	2897.4	2893.2	2889.0	2884.8	2879.7
25°	2900.0	2899.1	2896.6	2892.4	2888.1	2880.5	2873.8	2867.0	2861.1	2856.1	2848.5
27.5°	2888.1	2886.4	2881.4	2875.5	2867.0	2858.6	2845.9	2836.7	2829.1	2822.3	2813.9
30°	2883.9	2878.0	2870.4	2861.1	2851.0	2838.3	2824.8	2813.0	2804.6	2797.8	2794.5
32.5°	2889.0	2881.4	2869.6	2857.8	2845.1	2829.9	2816.4	2806.3	2798.7	2797.0	2797.0
35°	2935.4	2922.7	2906.7	2889.8	2873.8	2861.1	2851.8	2851.0	2845.9	2851.8	2861.1
37.5°	3071.3	3060.3	3035.8	3013.9	3002.9	2997.0	2988.6	2990.3	2978.4	2997.0	3012.2
40°	3359.9	3346.4	3317.7	3300.0	3278.1	3257.0	3273.8	3268.8	3277.2	3273.8	3289.9
42.5°	3781.1	3767.6	3722.0	3715.2	3706.0	3697.5	3697.5	3690.8	3687.4	3699.2	3685.7
45°	4293.4	4266.4	4249.5	4269.8	4241.9	4250.3	4279.9	4240.2	4249.5	4194.6	4144.0
47.5°	4825.1	4822.6	4818.3	4842.8	4847.0	4859.7	4875.7	4835.2	4761.8	4720.4	4617.5
50°	5437.0	5463.2	5473.3	5496.9	5507.0	5516.3	5491.0	5431.1	5307.0	5197.3	5075.8
52.5°	6180.5	6135.0	6197.4	6220.2	6210.1	6172.9	6081.8	6008.4	5837.0	5679.2	5491.0
55°	7046.5	7057.5	7013.6	6995.8	6961.2	6858.3	6732.5	6567.1	6350.2	6144.3	5906.2
57.5°	7928.5	7924.2	7855.9	7759.7	7642.3	7518.3	7330.9	7093.7	6840.5	6563.7	6275.9
60°	9001.2	8996.9	8858.5	8694.0	8526.8	8326.8	8033.1	7747.8	7408.6	7044.8	6702.1
62.5°	10410.6	10229.2	10093.3	9847.7	9589.4	9327.8	8930.3	8551.3	8098.1	7639.0	7238.9
65°	12216.8	11918.0	11763.5	11407.4	11007.3	10598.8	10194.6	9696.6	9086.4	8531.1	8042.4
67.5°	13552.8	13279.4	12996.6	12641.3	12202.4	11746.7	11193.0	10565.9	9873.0	9250.1	8717.6
69°	13670.1	13414.4	13075.1	12718.9	12303.7	11808.3	11204.0	10501.8	9799.6	9169.1	8645.0
70°	13492.0	13220.3	12863.3	12492.8	12028.6	11561.0	10928.0	10196.3	9493.2	8861.1	8349.6
72.5°	12163.6	11898.6	11518.8	11075.7	10599.7	10199.6	9598.7	8835.7	8071.1	7487.0	7088.7
75°	9249.3	9191.1	8921.8	8663.6	8288.8	7842.4	7292.9	6779.8	6152.7	5534.9	5163.5
77.5°	3946.5	4080.7	4220.8	4241.1	4254.6	4117.0	4031.7	3902.6	3483.2	3292.4	3095.8
80°	729.2	651.6	695.4	700.5	729.2	744.4	800.1	948.6	965.5	1001.8	1046.5
82.5°	259.1	263.3	270.1	272.6	275.1	285.3	323.2	387.4	445.6	521.6	622.9
85°	146.9	149.4	155.3	160.4	163.7	173.9	195.0	232.9	290.3	377.3	511.5
87.5°	44.7	50.6	54.0	60.8	63.3	65.0	74.3	99.6	128.3	189.9	276.8
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-E05-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4	2497.4
2.5°	2495.7	2494.8	2493.1	2491.5	2492.3	2490.6	2485.6	2483.9	2478.0	2473.7	2470.4
5°	2518.5	2517.6	2514.2	2515.1	2514.2	2505.8	2499.9	2489.8	2483.9	2474.6	2471.2
7.5°	2565.7	2564.9	2559.0	2561.5	2559.8	2547.2	2537.0	2521.0	2512.6	2500.7	2491.5
10°	2636.6	2636.6	2629.9	2630.7	2630.7	2613.8	2596.1	2569.1	2549.7	2531.1	2515.1
12.5°	2722.7	2719.3	2718.5	2714.3	2710.9	2692.3	2665.3	2629.0	2592.7	2562.4	2540.4
15°	2809.6	2804.6	2802.0	2797.0	2792.8	2775.9	2739.6	2694.9	2645.9	2597.0	2560.7
17.5°	2866.2	2862.8	2857.8	2856.1	2850.2	2833.3	2808.0	2763.2	2702.5	2634.1	2579.2
20°	2887.3	2881.4	2878.0	2874.6	2871.3	2859.4	2859.4	2830.7	2763.2	2667.0	2583.5
22.5°	2873.8	2870.4	2865.3	2862.8	2859.4	2861.1	2894.0	2889.8	2812.2	2674.6	2553.1
25°	2842.6	2838.3	2834.1	2834.1	2833.3	2851.0	2930.3	2941.3	2826.5	2637.5	2486.4
27.5°	2810.5	2804.6	2806.3	2807.1	2811.3	2849.3	2970.0	2954.8	2787.7	2548.0	2371.6
30°	2791.1	2791.1	2795.3	2802.0	2810.5	2877.2	3001.2	2924.4	2687.3	2413.0	2219.7
32.5°	2799.5	2808.0	2817.2	2834.1	2846.8	2938.8	3012.2	2845.9	2541.3	2245.9	2061.0
35°	2874.6	2884.8	2902.5	2928.6	2943.8	3027.4	3012.2	2731.2	2371.6	2102.4	1897.3
37.5°	3038.4	3048.5	3069.6	3089.9	3105.0	3138.8	2999.5	2585.1	2229.8	1953.8	1750.4
40°	3301.7	3316.0	3331.2	3327.9	3317.7	3284.8	2974.2	2449.3	2099.0	1823.9	1606.1
42.5°	3672.2	3658.7	3657.0	3624.1	3590.3	3449.4	2955.7	2360.6	1986.8	1687.1	1462.6
45°	4100.1	4045.2	3988.7	3944.8	3893.3	3630.0	2950.6	2288.9	1862.7	1535.2	1306.5
47.5°	4530.5	4442.8	4333.0	4264.7	4181.1	3822.4	2965.8	2192.7	1703.2	1369.8	1160.5
50°	4952.5	4809.1	4673.2	4591.3	4496.8	4043.6	2990.3	2030.6	1512.4	1219.6	1027.1
52.5°	5343.3	5158.5	5019.2	4923.0	4807.4	4301.0	2968.3	1818.0	1347.0	1075.2	900.5
55°	5714.7	5510.4	5366.1	5264.8	5128.9	4559.2	2809.6	1624.7	1189.2	934.3	757.9
57.5°	6039.6	5843.8	5693.6	5556.0	5441.2	4783.7	2496.5	1465.2	1037.3	773.1	603.5
60°	6419.4	6199.1	6021.0	5874.2	5739.1	4899.4	2145.4	1323.4	875.2	598.4	436.3
62.5°	6931.7	6678.5	6472.6	6304.6	6128.2	4924.7	1905.7	1181.6	694.6	433.0	317.3
65°	7691.3	7379.0	7121.6	6890.3	6651.5	4820.0	1787.6	1027.1	516.5	321.6	265.9
67.5°	8294.7	7970.7	7672.7	7375.6	7070.1	4625.9	1761.4	884.5	396.7	273.5	238.8
69°	8221.3	7912.4	7639.0	7317.4	6979.0	4382.0	1735.2	829.6	362.1	254.0	226.2
70°	7938.6	7645.7	7368.0	7106.4	6692.0	4110.2	1666.0	799.3	348.6	244.8	216.9
72.5°	6708.0	6368.8	6099.5	5773.7	5337.4	3054.4	1263.5	646.5	319.9	223.7	195.8
75°	4892.6	4611.6	4343.2	3982.8	3558.3	1767.3	786.6	369.7	234.6	202.6	177.2
77.5°	2856.9	2793.6	2534.5	2297.3	1877.0	899.7	451.5	221.1	182.3	184.0	156.1
80°	1075.2	1145.3	1171.5	1089.6	1006.9	621.2	328.3	179.8	158.7	181.5	132.5
82.5°	784.1	909.8	925.0	886.2	824.6	579.0	262.5	144.3	129.1	195.0	113.9
85°	654.1	724.1	735.1	694.6	674.3	490.4	183.1	101.3	94.5	140.1	85.2
87.5°	330.8	348.6	357.9	324.1	325.8	228.7	73.4	43.0	51.5	59.9	47.3
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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CATALOG NUMBER: VST-E05-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	2497.4	2497.4
2.5°	2462.8	2467.8
5°	2466.1	2466.1
7.5°	2485.6	2485.6
10°	2506.7	2507.5
12.5°	2526.1	2525.2
15°	2541.3	2538.7
17.5°	2550.5	2548.0
20°	2541.3	2537.0
22.5°	2494.0	2482.2
25°	2407.9	2392.7
27.5°	2294.0	2283.8
30°	2145.4	2130.2
32.5°	1971.6	1964.0
35°	1805.3	1796.0
37.5°	1653.4	1650.8
40°	1525.1	1511.6
42.5°	1374.9	1369.0
45°	1222.1	1218.7
47.5°	1078.6	1075.2
50°	946.1	939.4
52.5°	816.1	805.2
55°	671.8	664.2
57.5°	515.7	508.9
60°	362.9	355.3
62.5°	258.3	249.8
65°	215.2	208.5
67.5°	195.0	187.4
69°	185.7	178.9
70°	179.8	174.7
72.5°	167.1	163.7
75°	152.8	150.2
77.5°	134.2	130.0
80°	112.3	108.0
82.5°	94.5	90.3
85°	63.3	57.4
87.5°	28.7	25.3
90°	0.0	0.0

(END OF REPORT)