

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: P158017

Luminaire Tested: **VST-F05-LED-E-U-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158017
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-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (35) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13195 lumens
Efficiency: N/A
Efficacy: 99.0 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): 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

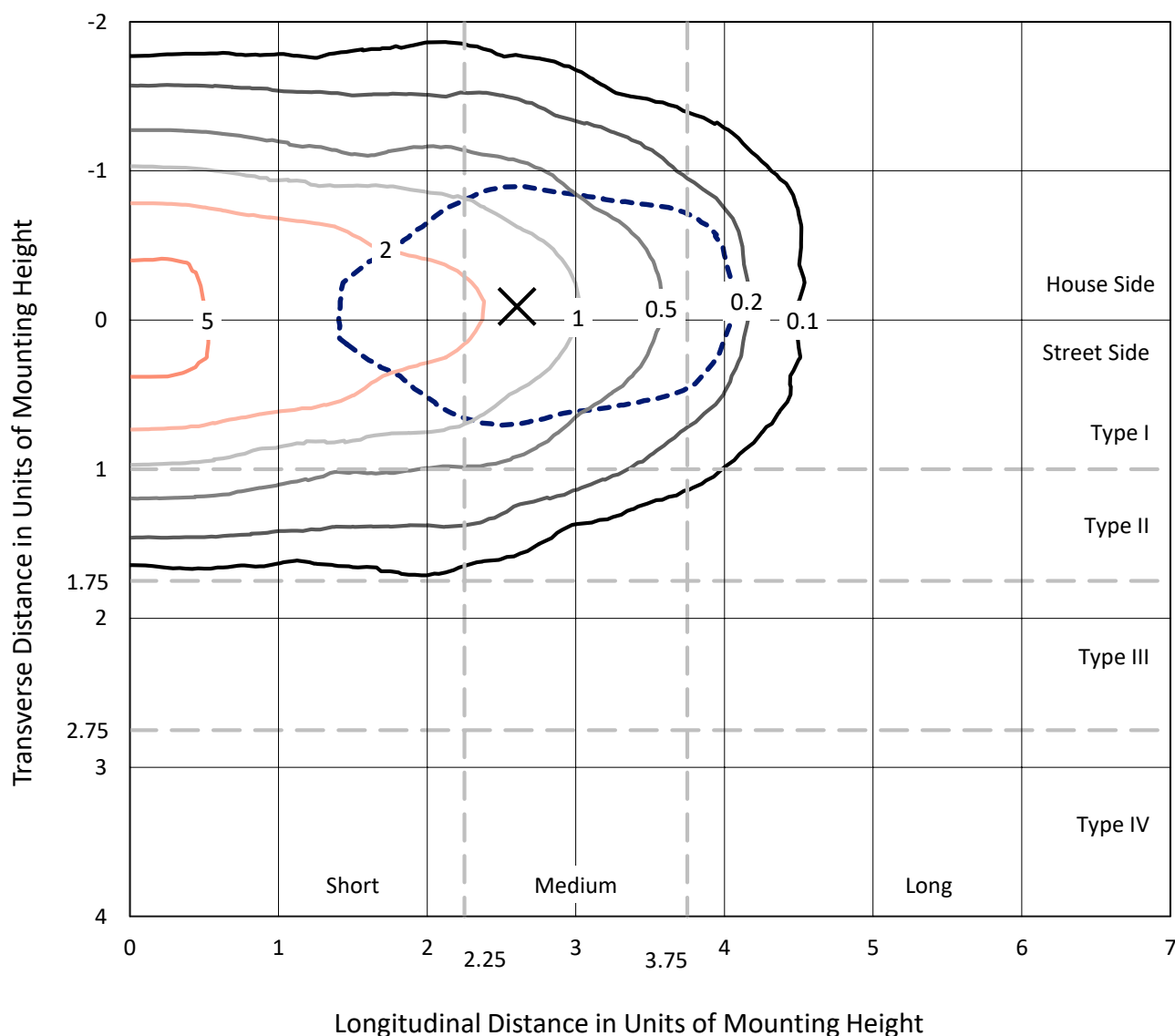


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

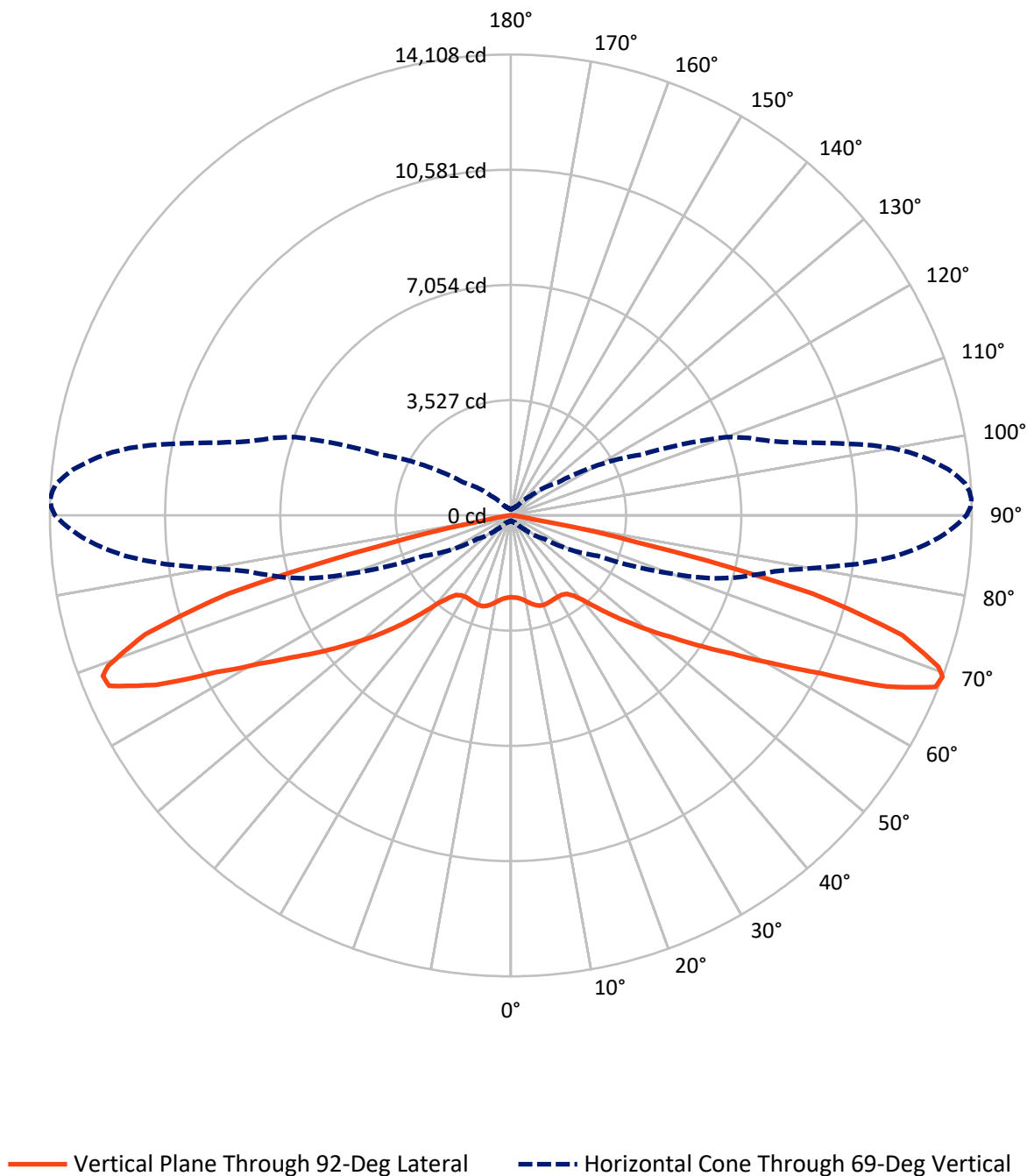


Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6998.0	0.0	6998.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	6197.0	0.0	6197.0
	% Fixture	47.0	0.0	47.0
Total	Lumens	13195.0	0.0	13195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	1.9
10°-20°	774.8	5.9
20°-30°	1257.0	9.5
30°-40°	1566.6	11.9
40°-50°	1950.6	14.8
50°-60°	2405.5	18.2
60°-70°	2987.5	22.6
70°-80°	1835.7	13.9
80°-90°	172.0	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°	13195.0	100.0
0°-180°	13195.0	100.0

Coefficient of Utilization



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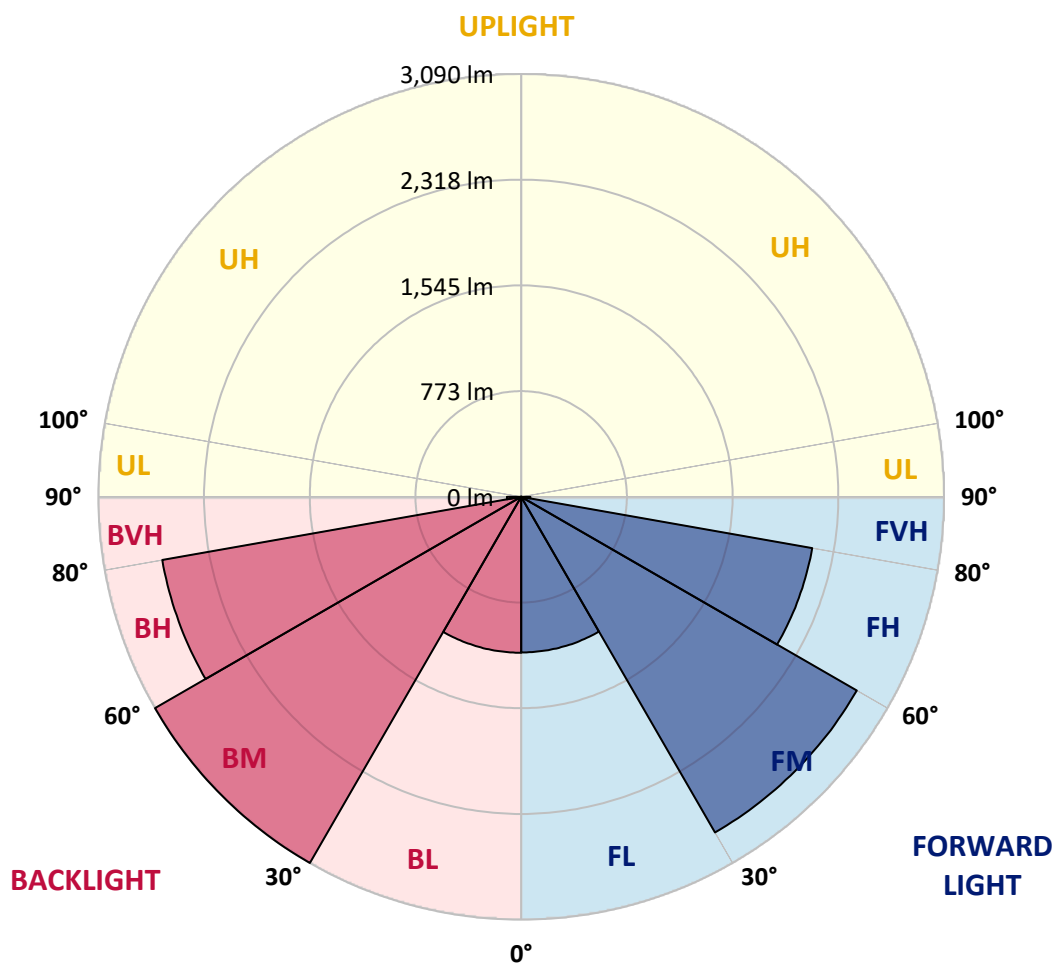
CATALOG NUMBER: VST-F05-LED-E-U-RW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1137.3	8.6			
FM	(30°-60°)	2832.5	21.5			
FH	(60°-80°)	2159.8	16.4			G2/5000
FVH	(80°-90°)	67.4	0.5			G1/100
BL	(0°-30°)	1139.7	8.6	B3/2500		
BM	(30°-60°)	3090.2	23.4	B3/5000		
BH	(60°-80°)	2663.3	20.2	B4/5000		G4/5000
BVH	(80°-90°)	104.7	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°	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5
2.5°	2546.3	2539.5	2545.5	2546.3	2545.5	2545.5	2537.8	2536.1	2526.0	2528.5	2527.7
5°	2581.0	2578.5	2582.7	2584.4	2586.1	2582.7	2576.8	2574.3	2567.5	2564.9	2564.1
7.5°	2613.2	2609.0	2615.8	2621.7	2625.9	2626.8	2627.6	2623.4	2623.4	2620.0	2620.0
10°	2640.3	2636.9	2648.0	2655.6	2669.1	2676.8	2685.2	2691.2	2694.5	2695.4	2694.5
12.5°	2652.2	2649.7	2667.4	2690.3	2715.7	2733.5	2754.7	2769.9	2774.2	2773.3	2777.6
15°	2631.9	2633.6	2660.7	2705.6	2759.8	2804.7	2834.3	2847.0	2850.4	2852.1	2853.0
17.5°	2576.8	2580.2	2619.2	2692.0	2786.9	2868.2	2912.2	2912.2	2905.5	2905.5	2904.6
20°	2488.7	2492.1	2542.9	2648.0	2787.7	2912.2	2974.9	2962.2	2936.8	2931.7	2926.6
22.5°	2366.7	2380.3	2436.2	2558.2	2751.3	2925.0	3013.9	2995.3	2955.4	2944.4	2936.8
25°	2228.7	2227.0	2293.9	2431.1	2663.2	2894.5	3024.9	3021.5	2979.2	2967.3	2953.8
27.5°	2071.1	2076.2	2138.0	2276.9	2528.5	2806.4	3006.3	3051.2	3016.4	3004.6	2991.9
30°	1909.3	1914.4	1972.8	2134.6	2375.2	2680.1	2968.2	3080.0	3066.4	3057.1	3048.6
32.5°	1746.7	1748.4	1817.8	1991.5	2245.6	2529.4	2910.6	3106.2	3124.9	3120.6	3117.2
35°	1594.2	1595.9	1671.3	1847.5	2117.7	2400.6	2841.1	3144.3	3204.5	3209.6	3213.0
37.5°	1446.0	1448.5	1525.6	1710.2	1991.5	2303.2	2764.0	3202.8	3316.3	3334.9	3338.3
40°	1298.6	1301.1	1374.8	1570.5	1863.6	2217.6	2704.7	3285.0	3467.1	3492.5	3518.8
42.5°	1158.0	1167.3	1230.0	1417.2	1721.3	2111.8	2679.3	3384.9	3645.8	3685.6	3715.3
45°	1026.7	1027.5	1098.7	1274.0	1552.7	1968.6	2662.4	3498.4	3845.7	3905.9	3946.5
47.5°	886.0	896.2	970.7	1141.0	1395.1	1791.6	2608.1	3631.4	4063.4	4133.7	4215.9
50°	749.7	764.1	836.1	1004.6	1251.1	1608.6	2462.4	3787.3	4308.2	4399.7	4494.6
52.5°	618.4	617.5	693.8	869.1	1106.3	1453.6	2226.1	3950.8	4591.1	4689.4	4791.9
55°	467.6	467.6	543.0	703.1	949.6	1315.5	1972.8	4052.4	4853.7	4972.3	5084.1
57.5°	321.0	329.5	400.7	538.7	786.1	1189.3	1778.9	3994.0	5054.5	5201.9	5334.9
60°	238.0	246.5	299.0	387.1	615.0	1040.2	1633.2	3718.7	5175.6	5371.3	5544.1
62.5°	205.8	211.8	261.7	310.0	443.0	881.8	1504.4	3368.8	5350.1	5617.8	5858.4
65°	183.8	189.7	239.7	267.7	346.5	709.0	1432.4	3168.9	5558.5	5967.6	6316.6
67.5°	170.3	177.0	219.4	239.7	302.4	641.2	1376.5	3122.3	5556.8	6053.2	6498.8
69°	163.5	168.6	203.3	225.3	292.2	620.9	1255.4	2919.9	5190.0	5722.8	6170.1
70°	159.3	164.3	194.0	216.0	288.9	584.5	1143.6	2652.2	4772.4	5308.6	5762.7
72.5°	145.7	150.8	172.8	193.1	240.6	390.5	797.1	1697.5	3410.3	3793.2	4312.5
75°	128.8	134.7	151.6	168.6	182.1	226.2	460.0	881.0	1950.0	2240.5	2703.0
77.5°	105.0	111.0	128.8	155.9	154.2	172.0	299.0	541.3	913.1	1132.5	1303.6
80°	86.4	90.6	105.9	157.6	126.2	144.0	242.3	443.9	642.9	710.7	751.4
82.5°	57.6	63.5	82.2	123.7	96.6	102.5	181.3	415.1	543.8	596.3	645.5
85°	27.1	29.6	50.0	66.1	58.4	55.1	103.3	293.1	404.9	429.5	448.1
87.5°	0.0	0.0	2.5	5.1	7.6	7.6	18.6	61.8	113.5	137.2	135.5
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5
2.5°	2524.3	2525.1	2524.3	2524.3	2523.4	2521.7	2521.7	2520.0	2520.9	2520.0	2521.7
5°	2563.3	2563.3	2560.7	2559.0	2561.6	2559.0	2559.9	2555.6	2555.6	2553.1	2549.7
7.5°	2619.2	2619.2	2620.0	2614.9	2618.3	2619.2	2616.6	2614.9	2613.2	2609.0	2609.8
10°	2693.7	2693.7	2696.2	2689.5	2692.9	2694.5	2695.4	2695.4	2693.7	2686.1	2686.9
12.5°	2776.7	2775.0	2775.9	2772.5	2775.9	2777.6	2779.3	2777.6	2777.6	2775.9	2775.0
15°	2852.1	2851.3	2853.0	2850.4	2851.3	2853.0	2858.0	2857.2	2856.3	2851.3	2851.3
17.5°	2903.8	2901.2	2899.5	2898.7	2898.7	2897.8	2898.7	2898.7	2896.2	2895.3	2895.3
20°	2923.3	2916.5	2912.2	2909.7	2906.3	2904.6	2902.9	2903.8	2902.1	2899.5	2900.4
22.5°	2926.6	2917.3	2908.9	2901.2	2894.5	2890.2	2886.0	2884.3	2880.1	2877.5	2877.5
25°	2942.7	2928.3	2914.8	2902.1	2891.9	2882.6	2873.3	2866.5	2861.4	2855.5	2853.8
27.5°	2978.3	2963.1	2947.0	2930.9	2917.3	2898.7	2886.0	2872.4	2860.6	2851.3	2844.5
30°	3033.4	3018.1	3002.0	2983.4	2965.6	2946.1	2925.0	2908.9	2891.9	2873.3	2863.1
32.5°	3106.2	3096.1	3080.0	3062.2	3046.1	3025.8	3000.3	2975.8	2959.7	2937.7	2921.6
35°	3210.4	3198.6	3193.5	3185.9	3169.8	3157.1	3129.1	3106.2	3091.0	3060.5	3048.6
37.5°	3352.7	3351.9	3356.1	3353.6	3356.1	3340.0	3327.3	3326.5	3304.4	3274.8	3246.0
40°	3546.7	3556.9	3579.7	3595.8	3611.1	3612.8	3630.6	3611.9	3614.5	3610.2	3580.6
42.5°	3767.8	3802.5	3829.6	3877.1	3913.5	3947.4	3970.2	4001.6	4025.3	4046.5	4051.6
45°	4014.3	4066.0	4128.6	4171.0	4242.2	4298.9	4376.8	4437.0	4499.7	4561.5	4583.5
47.5°	4282.0	4346.3	4415.8	4494.6	4584.4	4673.3	4793.6	4885.9	4986.7	5070.6	5145.1
50°	4577.6	4644.5	4737.7	4828.3	4952.0	5054.5	5212.1	5333.2	5495.8	5607.6	5704.2
52.5°	4885.9	4969.8	5074.0	5173.9	5300.2	5431.4	5606.8	5785.5	5981.2	6150.6	6291.2
55°	5187.5	5290.8	5390.8	5507.7	5647.5	5799.9	5998.1	6233.6	6477.6	6671.6	6857.9
57.5°	5456.0	5575.5	5693.2	5811.8	5954.9	6132.0	6354.8	6608.9	6888.4	7146.8	7402.6
60°	5705.1	5848.2	5992.2	6140.5	6304.8	6523.3	6791.0	7103.6	7465.3	7818.5	8153.1
62.5°	6098.9	6287.0	6465.7	6657.2	6855.4	7112.0	7428.0	7838.0	8253.1	8694.4	9037.4
65°	6632.6	6896.9	7130.7	7378.9	7635.5	7978.6	8356.4	8846.9	9441.5	9893.8	10444.4
67.5°	6897.7	7245.9	7546.6	7822.7	8140.4	8486.9	8935.8	9516.0	10150.5	10806.1	11420.3
69°	6586.0	6945.2	7278.1	7587.3	7908.3	8244.6	8713.9	9309.4	9980.2	10689.2	11289.0
70°	6182.0	6541.1	6896.0	7248.4	7541.5	7869.3	8340.3	8954.4	9624.5	10361.4	10956.1
72.5°	4736.0	5168.0	5489.1	5819.4	6159.1	6436.9	6980.8	7498.3	8196.3	8944.3	9599.1
75°	3030.0	3427.3	3778.0	4059.2	4391.2	4724.1	5125.7	5700.8	6137.9	6752.0	7283.2
77.5°	1556.9	1674.7	2012.7	2113.5	2343.9	2525.1	2746.2	2890.2	3246.0	3321.4	3634.8
80°	737.8	665.0	626.0	590.4	600.6	596.3	578.6	554.8	584.5	571.8	566.7
82.5°	642.9	573.5	457.4	388.8	336.3	285.5	245.7	225.3	227.9	234.6	237.2
85°	450.6	423.5	330.4	250.7	195.7	151.6	122.0	116.9	120.3	129.6	126.2
87.5°	130.4	136.4	120.3	83.9	58.4	42.4	33.0	37.3	35.6	34.7	36.4
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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CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5
2.5°	2521.7	2520.9	2518.4	2515.8	2515.8	2514.1	2515.8	2516.7	2515.8	2515.8	2514.1
5°	2550.5	2551.4	2553.9	2548.9	2548.0	2548.9	2545.5	2544.6	2544.6	2544.6	2541.2
7.5°	2605.6	2608.1	2608.1	2604.8	2603.9	2606.5	2601.4	2599.7	2597.1	2596.3	2595.4
10°	2687.8	2690.3	2686.1	2683.5	2681.0	2684.4	2680.1	2680.1	2677.6	2675.1	2674.2
12.5°	2779.3	2777.6	2775.9	2777.6	2775.0	2775.0	2772.5	2770.8	2769.9	2769.1	2767.4
15°	2850.4	2856.3	2856.3	2858.0	2856.3	2856.3	2853.0	2853.8	2852.1	2851.3	2852.1
17.5°	2896.2	2897.8	2902.1	2904.6	2904.6	2905.5	2903.8	2905.5	2903.8	2903.8	2907.2
20°	2902.1	2903.8	2908.0	2912.2	2914.8	2916.5	2916.5	2919.0	2920.7	2922.4	2926.6
22.5°	2878.4	2880.9	2886.0	2893.6	2897.8	2899.5	2902.9	2907.2	2911.4	2914.8	2920.7
25°	2853.8	2854.6	2859.7	2867.4	2872.4	2876.7	2882.6	2887.7	2893.6	2900.4	2907.2
27.5°	2840.2	2839.4	2843.6	2851.3	2855.5	2861.4	2866.5	2874.1	2880.9	2889.4	2895.3
30°	2852.1	2845.3	2846.2	2849.6	2853.0	2857.2	2863.1	2869.9	2877.5	2885.1	2891.9
32.5°	2904.6	2889.4	2879.2	2876.7	2877.5	2878.4	2881.8	2886.0	2891.9	2897.8	2900.4
35°	3018.1	2991.9	2978.3	2967.3	2958.0	2950.4	2952.1	2951.2	2951.2	2956.3	2950.4
37.5°	3234.1	3201.1	3186.7	3167.2	3156.2	3128.3	3120.6	3118.9	3107.9	3107.9	3095.2
40°	3573.0	3553.5	3542.5	3524.7	3471.3	3478.1	3440.0	3440.8	3409.5	3412.9	3390.8
42.5°	4055.0	4057.5	4043.9	4032.1	3990.6	3971.9	3936.4	3885.5	3845.7	3844.9	3800.8
45°	4612.3	4642.8	4599.6	4614.9	4578.4	4528.5	4487.0	4421.7	4359.9	4340.4	4295.5
47.5°	5195.1	5245.1	5212.1	5218.0	5200.2	5129.0	5073.1	4992.7	4912.2	4858.0	4830.9
50°	5817.7	5850.8	5849.9	5833.8	5825.3	5755.9	5666.1	5605.1	5545.8	5473.0	5449.2
52.5°	6381.9	6459.0	6510.6	6498.8	6474.2	6432.7	6353.1	6300.5	6213.3	6203.1	6213.3
55°	6985.8	7085.8	7138.3	7201.8	7202.7	7195.1	7162.0	7142.5	7061.2	7070.5	7058.7
57.5°	7557.6	7704.2	7784.6	7920.2	7966.7	8028.6	8005.7	8031.1	7982.0	8014.2	8004.9
60°	8332.7	8536.0	8669.8	8855.3	8941.7	9096.7	9127.2	9145.9	9173.0	9239.1	9201.8
62.5°	9307.7	9605.8	9883.7	10136.1	10219.1	10452.1	10490.2	10635.9	10643.5	10688.4	10606.2
65°	10903.6	11267.0	11572.7	11875.2	12049.7	12322.4	12432.5	12715.5	12629.1	12665.5	12490.1
67.5°	11948.8	12371.5	12781.5	13067.8	13357.5	13636.2	13837.0	14019.9	14018.3	13982.7	13826.8
69°	11856.5	12327.5	12731.5	13115.3	13420.2	13706.5	13947.9	14066.5	14108.0	14056.4	13945.4
70°	11537.2	12020.9	12515.5	12831.5	13163.6	13477.8	13726.9	13856.5	13885.3	13848.8	13753.1
72.5°	10061.6	10525.8	11071.3	11358.4	11760.0	11987.0	12330.0	12497.8	12527.4	12480.8	12418.1
75°	7852.4	7936.3	8491.9	8674.9	8966.3	9228.0	9441.5	9387.3	9538.9	9509.3	9485.6
77.5°	3699.2	3475.6	3835.6	4003.3	3915.2	3680.5	4021.9	3775.4	3938.9	4151.5	4097.3
80°	609.9	608.2	624.3	659.9	617.5	655.6	654.8	636.2	637.8	683.6	659.9
82.5°	234.6	239.7	242.3	249.0	249.0	249.9	254.1	259.2	255.0	263.4	261.7
85°	127.1	135.5	127.9	122.0	126.2	128.8	132.1	136.4	132.1	144.8	138.1
87.5°	33.0	34.7	30.5	30.5	29.6	27.1	27.1	28.8	31.3	37.3	40.7
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5
2.5°	2510.7	2511.6	2512.4	2509.9	2508.2	2508.2	2507.3	2505.6	2504.8	2504.8	2504.8
5°	2539.5	2541.2	2537.0	2536.1	2534.5	2532.8	2532.8	2531.1	2531.9	2531.9	2527.7
7.5°	2597.1	2594.6	2589.5	2586.1	2589.5	2583.6	2581.0	2582.7	2581.0	2581.9	2580.2
10°	2674.2	2674.2	2668.3	2671.7	2667.4	2660.7	2663.2	2660.7	2659.0	2653.0	2656.4
12.5°	2769.9	2767.4	2764.0	2756.4	2753.8	2753.0	2745.4	2746.2	2743.7	2742.0	2739.4
15°	2853.8	2853.0	2845.3	2841.1	2840.2	2836.9	2833.5	2831.8	2827.5	2826.7	2825.0
17.5°	2909.7	2907.2	2903.8	2899.5	2899.5	2894.5	2892.8	2888.5	2887.7	2885.1	2882.6
20°	2928.3	2929.2	2925.8	2922.4	2920.7	2917.3	2914.8	2911.4	2909.7	2906.3	2903.8
22.5°	2924.1	2924.1	2920.7	2919.9	2916.5	2911.4	2908.0	2903.8	2899.5	2895.3	2890.2
25°	2910.6	2909.7	2907.2	2902.9	2898.7	2891.1	2884.3	2877.5	2871.6	2866.5	2858.9
27.5°	2898.7	2897.0	2891.9	2886.0	2877.5	2869.0	2856.3	2847.0	2839.4	2832.6	2824.2
30°	2894.5	2888.5	2880.9	2871.6	2861.4	2848.7	2835.2	2823.3	2814.8	2808.1	2804.7
32.5°	2899.5	2891.9	2880.1	2868.2	2855.5	2840.2	2826.7	2816.5	2808.9	2807.2	2807.2
35°	2946.1	2933.4	2917.3	2900.4	2884.3	2871.6	2862.3	2861.4	2856.3	2862.3	2871.6
37.5°	3082.5	3071.5	3046.9	3024.9	3013.9	3008.0	2999.5	3001.2	2989.3	3008.0	3023.2
40°	3372.2	3358.7	3329.9	3312.1	3290.0	3268.9	3285.8	3280.7	3289.2	3285.8	3301.9
42.5°	3794.9	3781.3	3735.6	3728.8	3719.5	3711.0	3711.0	3704.3	3700.9	3712.7	3699.2
45°	4309.1	4282.0	4265.0	4285.4	4257.4	4265.9	4295.5	4255.7	4265.0	4210.0	4159.1
47.5°	4842.7	4840.2	4836.0	4860.5	4864.8	4877.5	4893.6	4852.9	4779.2	4737.7	4634.4
50°	5456.9	5483.1	5493.3	5517.0	5527.2	5536.5	5511.1	5450.9	5326.4	5216.3	5094.3
52.5°	6203.1	6157.4	6220.1	6242.9	6232.8	6195.5	6104.0	6030.3	5858.4	5700.0	5511.1
55°	7072.2	7083.2	7039.2	7021.4	6986.7	6883.3	6757.1	6591.1	6373.4	6166.7	5927.8
57.5°	7957.4	7953.2	7884.6	7788.0	7670.3	7545.7	7357.7	7119.7	6865.5	6587.7	6298.9
60°	9034.1	9029.8	8890.9	8725.7	8558.0	8357.2	8062.5	7776.2	7435.6	7070.5	6726.6
62.5°	10448.7	10266.6	10130.2	9883.7	9624.5	9361.9	8962.9	8582.6	8127.7	7666.9	7265.4
65°	12261.4	11961.6	11806.5	11449.1	11047.6	10637.6	10231.8	9732.1	9119.6	8562.2	8071.8
67.5°	13602.3	13327.9	13044.1	12687.5	12247.0	11789.6	11233.9	10604.5	9909.1	9283.9	8749.4
69°	13720.1	13463.4	13122.9	12765.4	12348.7	11851.4	11244.9	10540.2	9835.4	9202.6	8676.6
70°	13541.4	13268.6	12910.3	12538.4	12072.5	11603.2	10967.9	10233.5	9527.9	8893.4	8380.1
72.5°	12208.1	11942.1	11560.9	11116.2	10638.4	10236.9	9633.8	8868.0	8100.6	7514.4	7114.6
75°	9283.1	9224.7	8954.4	8695.2	8319.1	7871.0	7319.6	6804.6	6175.2	5555.1	5182.4
77.5°	3960.9	4095.6	4236.2	4256.6	4270.1	4132.0	4046.5	3916.9	3495.9	3304.4	3107.1
80°	731.9	653.9	698.0	703.1	731.9	747.1	803.0	952.1	969.1	1005.5	1050.4
82.5°	260.1	264.3	271.1	273.6	276.1	286.3	324.4	388.8	447.3	523.5	625.1
85°	147.4	149.9	155.9	160.9	164.3	174.5	195.7	233.8	291.4	378.6	513.3
87.5°	44.9	50.8	54.2	61.0	63.5	65.2	74.5	100.0	128.8	190.6	277.8
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-F05-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5	2506.5
2.5°	2504.8	2504.0	2502.3	2500.6	2501.4	2499.7	2494.6	2492.9	2487.0	2482.8	2479.4
5°	2527.7	2526.8	2523.4	2524.3	2523.4	2515.0	2509.0	2498.9	2492.9	2483.6	2480.2
7.5°	2575.1	2574.3	2568.3	2570.9	2569.2	2556.5	2546.3	2530.2	2521.7	2509.9	2500.6
10°	2646.3	2646.3	2639.5	2640.3	2640.3	2623.4	2605.6	2578.5	2559.0	2540.4	2524.3
12.5°	2732.7	2729.3	2728.4	2724.2	2720.8	2702.2	2675.1	2638.6	2602.2	2571.7	2549.7
15°	2819.9	2814.8	2812.3	2807.2	2803.0	2786.0	2749.6	2704.7	2655.6	2606.5	2570.0
17.5°	2876.7	2873.3	2868.2	2866.5	2860.6	2843.6	2818.2	2773.3	2712.3	2643.7	2588.7
20°	2897.8	2891.9	2888.5	2885.1	2881.8	2869.9	2869.9	2841.1	2773.3	2676.8	2592.9
22.5°	2884.3	2880.9	2875.8	2873.3	2869.9	2871.6	2904.6	2900.4	2822.5	2684.4	2562.4
25°	2853.0	2848.7	2844.5	2844.5	2843.6	2861.4	2941.0	2952.1	2836.9	2647.1	2495.5
27.5°	2820.8	2814.8	2816.5	2817.4	2821.6	2859.7	2980.9	2965.6	2797.9	2557.3	2380.3
30°	2801.3	2801.3	2805.5	2812.3	2820.8	2887.7	3012.2	2935.1	2697.1	2421.8	2227.8
32.5°	2809.7	2818.2	2827.5	2844.5	2857.2	2949.5	3023.2	2856.3	2550.5	2254.1	2068.6
35°	2885.1	2895.3	2913.1	2939.4	2954.6	3038.5	3023.2	2741.1	2380.3	2110.1	1904.2
37.5°	3049.5	3059.6	3080.8	3101.1	3116.4	3150.3	3010.5	2594.6	2238.0	1961.0	1756.8
40°	3313.8	3328.2	3343.4	3340.0	3329.9	3296.8	2985.1	2458.2	2106.7	1830.5	1612.0
42.5°	3685.6	3672.1	3670.4	3637.3	3603.5	3462.0	2966.5	2369.3	1994.0	1693.3	1468.0
45°	4115.1	4060.0	4003.3	3959.2	3907.6	3643.3	2961.4	2297.3	1869.5	1540.8	1311.3
47.5°	4547.1	4459.0	4348.9	4280.3	4196.4	3836.4	2976.6	2200.7	1709.4	1374.8	1164.7
50°	4970.6	4826.6	4690.3	4608.1	4513.2	4058.3	3001.2	2038.1	1518.0	1224.0	1030.9
52.5°	5362.8	5177.3	5037.6	4941.0	4824.9	4316.7	2979.2	1824.6	1351.9	1079.2	903.8
55°	5735.5	5530.6	5385.7	5284.1	5147.7	4575.9	2819.9	1630.6	1193.5	937.7	760.7
57.5°	6061.7	5865.2	5714.4	5576.3	5461.1	4801.2	2505.6	1470.5	1041.1	775.9	605.7
60°	6442.9	6221.8	6043.0	5895.6	5760.1	4917.3	2153.3	1328.2	878.4	600.6	437.9
62.5°	6957.0	6702.9	6496.2	6327.7	6150.6	4942.7	1912.7	1185.9	697.1	434.5	318.5
65°	7719.4	7406.0	7147.6	6915.5	6675.8	4837.6	1794.1	1030.9	518.4	322.7	266.8
67.5°	8325.1	7999.8	7700.8	7402.6	7096.0	4642.8	1767.8	887.7	398.1	274.5	239.7
69°	8251.4	7941.3	7666.9	7344.1	7004.5	4398.0	1741.6	832.7	363.4	255.0	227.0
70°	7967.6	7673.7	7395.0	7132.4	6716.5	4125.3	1672.1	802.2	349.8	245.7	217.7
72.5°	6732.6	6392.0	6121.8	5794.8	5356.9	3065.6	1268.1	648.9	321.0	224.5	196.5
75°	4910.5	4628.4	4359.1	3997.3	3571.3	1773.8	789.5	371.0	235.5	203.3	177.9
77.5°	2867.4	2803.8	2543.8	2305.7	1883.9	903.0	453.2	221.9	183.0	184.7	156.7
80°	1079.2	1149.5	1175.7	1093.6	1010.6	623.4	329.5	180.4	159.3	182.1	133.0
82.5°	786.9	913.1	928.4	889.4	827.6	581.1	263.4	144.8	129.6	195.7	114.4
85°	656.5	726.8	737.8	697.1	676.8	492.2	183.8	101.6	94.9	140.6	85.6
87.5°	332.1	349.8	359.2	325.3	327.0	229.6	73.7	43.2	51.7	60.1	47.4
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-F05-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	2506.5	2506.5
2.5°	2471.8	2476.8
5°	2475.2	2475.2
7.5°	2494.6	2494.6
10°	2515.8	2516.7
12.5°	2535.3	2534.5
15°	2550.5	2548.0
17.5°	2559.9	2557.3
20°	2550.5	2546.3
22.5°	2503.1	2491.2
25°	2416.7	2401.5
27.5°	2302.4	2292.2
30°	2153.3	2138.0
32.5°	1978.8	1971.1
35°	1811.9	1802.6
37.5°	1659.4	1656.9
40°	1530.7	1517.1
42.5°	1379.9	1374.0
45°	1226.6	1223.2
47.5°	1082.6	1079.2
50°	949.6	942.8
52.5°	819.1	808.1
55°	674.3	666.6
57.5°	517.6	510.8
60°	364.2	356.6
62.5°	259.2	250.7
65°	216.0	209.2
67.5°	195.7	188.1
69°	186.4	179.6
70°	180.4	175.3
72.5°	167.7	164.3
75°	153.3	150.8
77.5°	134.7	130.4
80°	112.7	108.4
82.5°	94.9	90.6
85°	63.5	57.6
87.5°	28.8	25.4
90°	0.0	0.0

(END OF REPORT)