

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: P158503

Luminaire Tested: **VST-F10-LED-E-U-SL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158503
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-F10-LED-E-U-SL3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (70) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21019.6 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 258.7
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



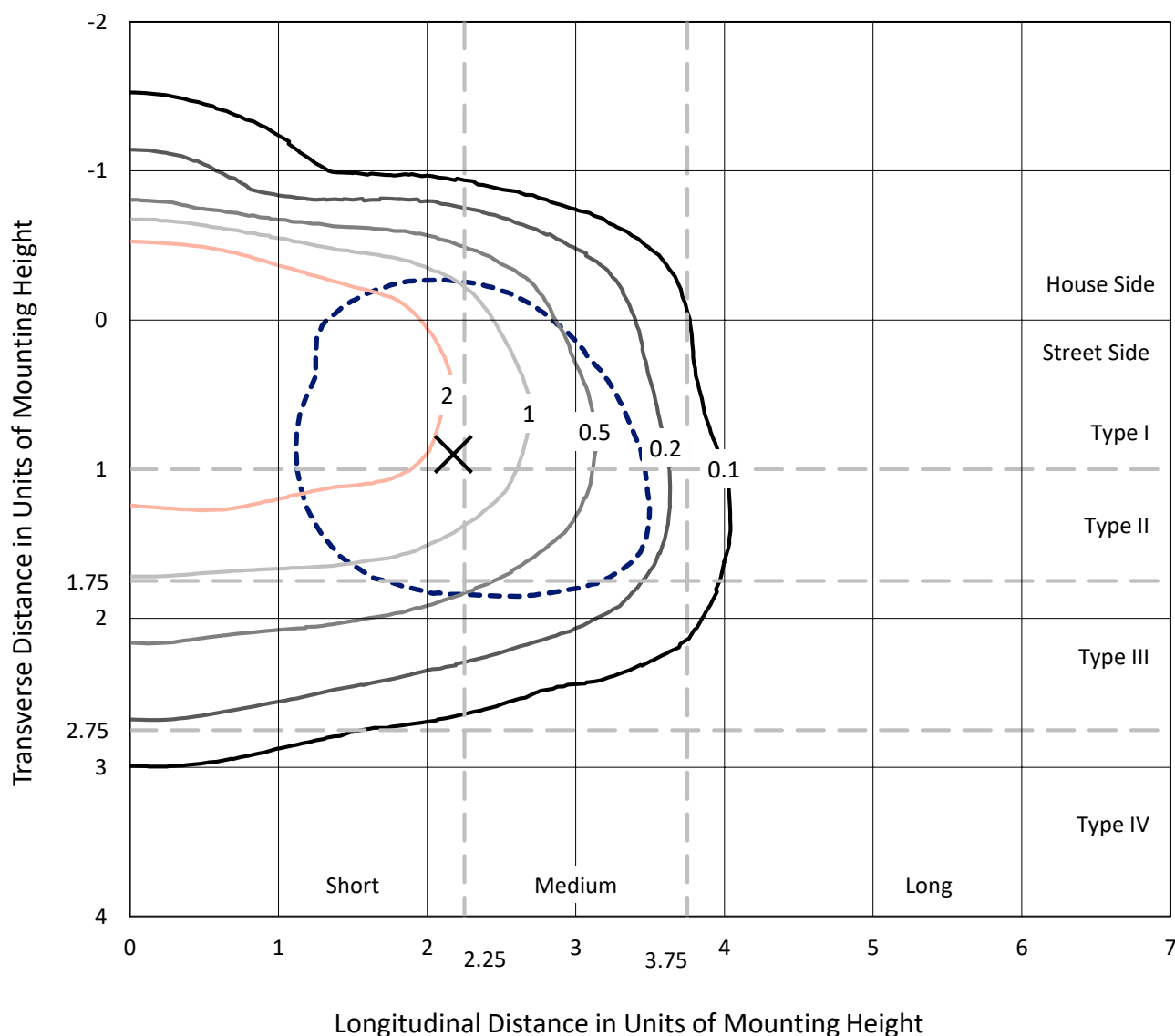
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

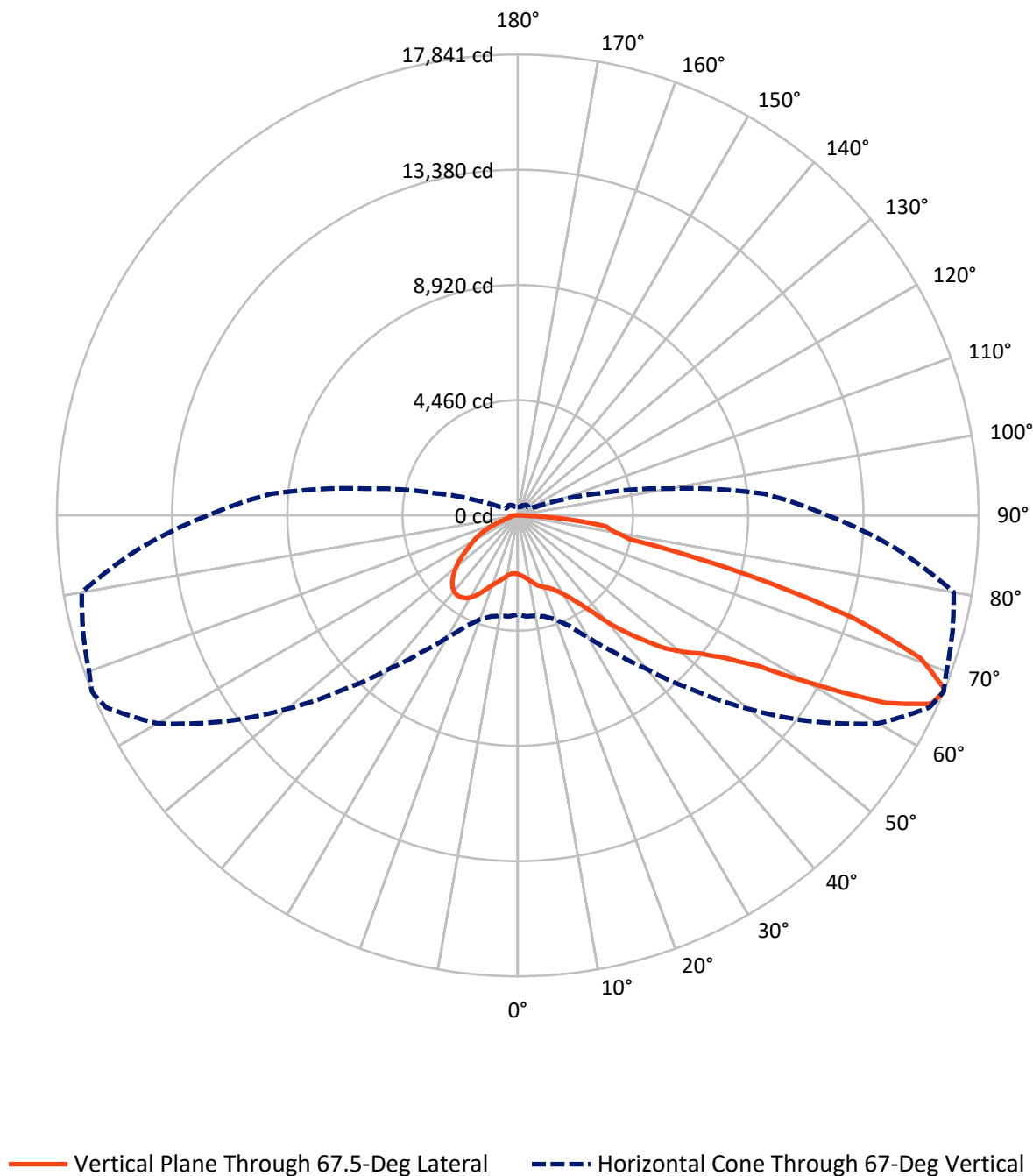


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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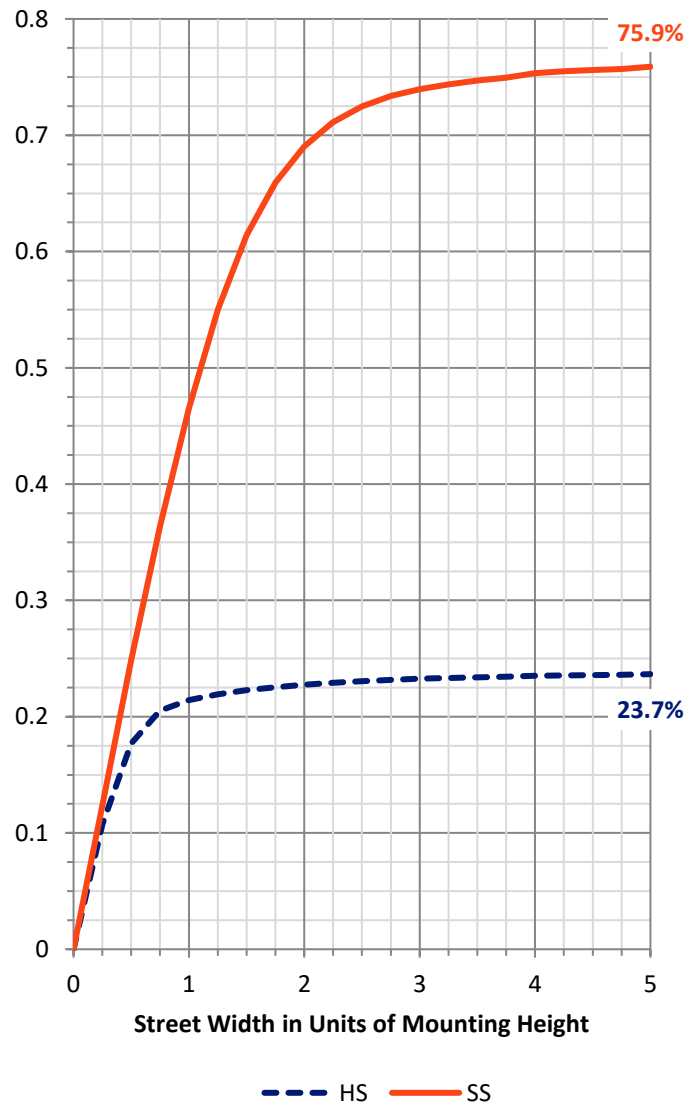
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5042.6	0.0	5042.6
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	15977.0	0.0	15977.0
	% Fixture	76.0	0.0	76.0
Total	Lumens	21019.6	0.0	21019.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	1.1
10°-20°	771.5	3.7
20°-30°	1377.3	6.6
30°-40°	2018.6	9.6
40°-50°	3118.9	14.8
50°-60°	4541.7	21.6
60°-70°	5916.3	28.1
70°-80°	2648.3	12.6
80°-90°	400.4	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°	21019.6	100.0
0°-180°	21019.6	100.0

Coefficient of Utilization



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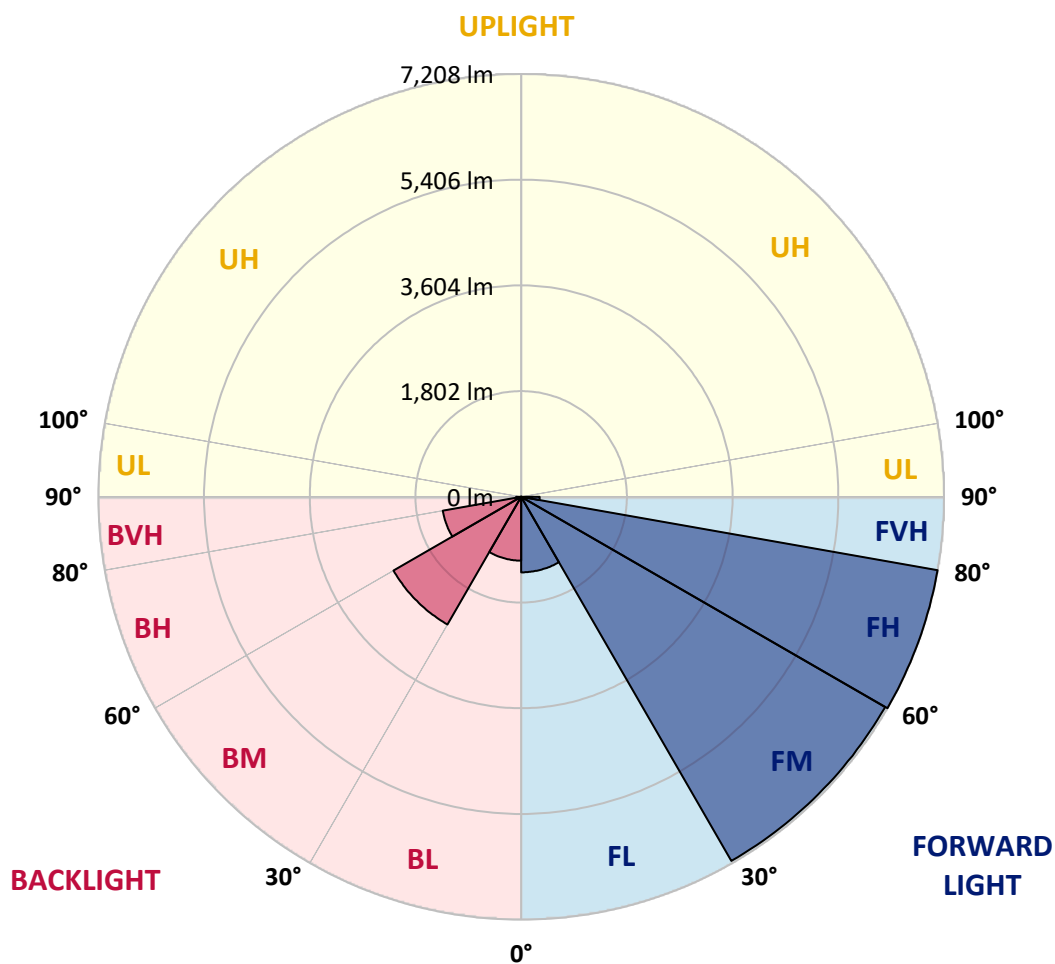
CATALOG NUMBER: VST-F10-LED-E-U-SL3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1287.9	6.1			
FM	(30°-60°)	7166.6	34.1			
FH	(60°-80°)	7208.0	34.3			G3/7500
FVH	(80°-90°)	314.5	1.5			G3/500
BL	(0°-30°)	1087.4	5.2	B3/2500		
BM	(30°-60°)	2512.6	12.0	B3/5000		
BH	(60°-80°)	1356.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	86.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3
2.5°	2367.5	2373.1	2374.5	2373.1	2374.5	2368.9	2367.5	2359.1	2363.3	2352.2	2349.4
5°	2495.7	2499.9	2502.7	2491.5	2494.3	2488.7	2481.8	2473.4	2462.3	2446.9	2437.2
7.5°	2621.1	2628.1	2626.7	2622.5	2612.8	2607.2	2593.2	2580.7	2561.2	2543.1	2530.5
10°	2789.7	2788.3	2788.3	2764.6	2750.7	2738.2	2713.1	2693.6	2674.1	2647.6	2633.7
12.5°	2984.8	2975.1	2970.9	2954.2	2924.9	2902.6	2866.4	2828.7	2793.9	2766.0	2743.7
15°	3172.9	3172.9	3161.8	3135.3	3107.4	3078.2	3026.6	2972.3	2915.1	2870.6	2848.3
17.5°	3344.3	3329.0	3319.2	3284.4	3255.1	3207.8	3150.6	3092.1	3021.0	2958.3	2915.1
20°	3469.7	3457.2	3436.3	3393.1	3342.9	3287.2	3220.3	3152.0	3075.4	3007.1	2958.3
22.5°	3542.2	3526.9	3494.8	3437.7	3369.4	3291.4	3213.3	3149.2	3079.6	3028.0	2987.6
25°	3579.8	3564.5	3521.3	3446.1	3354.1	3251.0	3161.8	3099.1	3058.7	3046.1	3040.6
27.5°	3578.4	3565.9	3519.9	3433.5	3315.1	3196.6	3100.5	3047.5	3043.3	3092.1	3128.3
30°	3542.2	3533.8	3492.0	3405.6	3281.6	3157.6	3068.4	3040.6	3083.8	3186.9	3276.1
32.5°	3506.0	3501.8	3472.5	3394.5	3288.6	3184.1	3122.8	3125.6	3214.7	3373.6	3517.1
35°	3510.2	3515.7	3511.5	3469.7	3402.9	3348.5	3319.2	3380.6	3519.9	3712.2	3904.5
37.5°	3546.4	3567.3	3593.8	3597.9	3599.3	3591.0	3652.3	3781.9	3985.3	4236.2	4537.1
40°	3625.8	3649.5	3726.1	3793.0	3879.4	3982.5	4106.6	4286.3	4538.5	4847.9	5217.2
42.5°	3872.5	3905.9	4000.7	4124.7	4283.5	4445.2	4630.5	4875.8	5185.1	5511.2	5898.6
45°	4194.3	4264.0	4368.5	4506.5	4744.8	4971.9	5211.6	5486.1	5815.0	6223.2	6613.4
47.5°	4595.7	4665.3	4817.2	4964.9	5246.4	5529.3	5791.3	6078.3	6435.0	6853.1	7285.1
50°	4946.8	5026.3	5161.4	5360.7	5686.8	6033.7	6323.6	6634.3	6933.9	7374.2	7810.4
52.5°	5222.7	5279.9	5409.5	5592.0	5955.7	6336.1	6702.6	7048.2	7403.5	7843.8	8248.0
55°	5257.6	5310.5	5437.3	5646.3	6015.6	6437.8	6860.1	7269.7	7772.8	8253.5	8788.6
57.5°	5107.1	5150.3	5278.5	5465.2	5824.7	6305.5	6839.2	7364.5	8008.3	8657.6	9311.2
60°	4893.9	4937.1	5037.4	5186.5	5511.2	6029.5	6652.4	7371.5	8227.1	9164.9	10126.4
62.5°	4659.8	4697.4	4778.2	4884.1	5169.8	5647.7	6361.2	7325.5	8405.4	9669.3	11151.9
65°	4265.4	4356.0	4390.8	4499.5	4785.2	5236.7	5962.7	7014.7	8333.0	9893.6	11795.7
67°	3829.3	3921.2	3939.3	4049.4	4278.0	4711.3	5449.9	6439.2	7758.8	9506.3	11653.6
67.5°	3689.9	3767.9	3795.8	3905.9	4121.9	4530.2	5231.1	6231.6	7583.3	9294.5	11482.2
70°	2713.1	2799.5	2830.1	2876.1	3030.8	3370.8	3834.8	4703.0	6046.3	7584.7	9686.0
72.5°	1452.0	1521.7	1550.9	1619.2	1698.6	1884.0	2239.3	2862.2	3710.8	5075.0	6890.7
75°	982.4	1010.3	1031.2	1078.5	1160.8	1308.5	1464.5	1683.3	2196.1	2863.6	3921.2
77.5°	560.2	572.7	575.5	583.9	649.4	790.1	1046.5	1417.2	1817.1	2074.9	2508.2
80°	242.5	267.5	287.1	274.5	270.3	299.6	374.8	558.8	1095.3	1739.1	2063.7
82.5°	131.0	142.1	158.9	160.2	168.6	178.4	193.7	229.9	323.3	652.1	1422.7
85°	68.3	71.1	94.8	108.7	115.7	121.2	124.0	138.0	158.9	202.1	353.9
87.5°	9.8	13.9	16.7	22.3	25.1	26.5	30.7	39.0	46.0	55.7	94.8
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-F10-LED-E-U-SL3-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3
2.5°	2336.9	2334.1	2325.7	2320.1	2314.6	2309.0	2302.0	2296.4	2286.7	2279.7	2271.4
5°	2423.2	2406.5	2395.4	2380.0	2377.3	2359.1	2341.0	2332.7	2315.9	2302.0	2285.3
7.5°	2511.0	2491.5	2473.4	2460.9	2453.9	2428.8	2410.7	2389.8	2370.3	2352.2	2332.7
10°	2614.2	2594.6	2575.1	2566.8	2554.2	2530.5	2515.2	2488.7	2469.2	2446.9	2420.5
12.5°	2721.4	2707.5	2693.6	2682.4	2676.9	2665.7	2643.4	2621.1	2594.6	2572.3	2541.7
15°	2816.2	2806.5	2800.9	2798.1	2798.1	2791.1	2770.2	2749.3	2721.4	2696.4	2662.9
17.5°	2883.1	2878.9	2883.1	2887.3	2892.8	2887.3	2883.1	2859.4	2841.3	2810.6	2777.2
20°	2922.1	2930.5	2951.4	2965.3	2977.8	2987.6	2991.8	2972.3	2948.6	2926.3	2904.0
22.5°	2963.9	2987.6	3023.8	3044.7	3065.6	3100.5	3108.8	3094.9	3076.8	3062.8	3039.2
25°	3033.6	3068.4	3131.1	3164.6	3193.8	3245.4	3252.4	3255.1	3251.0	3239.8	3210.6
27.5°	3142.3	3210.6	3294.2	3337.4	3369.4	3436.3	3462.8	3462.8	3451.6	3464.2	3464.2
30°	3331.8	3422.4	3531.1	3556.1	3606.3	3664.8	3708.0	3713.6	3715.0	3741.5	3780.5
32.5°	3623.0	3709.4	3830.7	3858.5	3901.7	3957.5	4006.2	4000.7	4013.2	4070.3	4121.9
35°	4046.6	4134.4	4213.9	4251.5	4271.0	4321.2	4339.3	4369.9	4407.5	4478.6	4471.6
37.5°	4673.7	4751.7	4762.9	4786.6	4762.9	4772.6	4786.6	4822.8	4923.1	4987.2	4884.1
40°	5429.0	5558.6	5546.0	5518.1	5465.2	5394.1	5419.2	5474.9	5583.6	5527.9	5250.6
42.5°	6141.0	6274.8	6249.7	6217.7	6100.6	6074.1	6071.4	6117.3	6175.9	6017.0	5537.7
45°	6841.9	6978.5	6935.3	6917.2	6839.2	6782.0	6829.4	6832.2	6816.9	6476.9	5788.5
47.5°	7565.2	7690.6	7662.7	7678.0	7597.2	7559.6	7563.8	7544.3	7400.7	6867.0	5983.6
50°	8149.0	8317.6	8334.4	8299.5	8256.3	8199.2	8345.5	8292.5	7973.4	7246.0	6171.7
52.5°	8603.3	8830.4	8916.8	8894.5	8859.7	8866.7	9141.2	9201.1	8673.0	7724.0	6379.3
55°	9141.2	9499.3	9640.0	9723.6	9687.4	9826.8	10455.2	10485.9	9645.6	8348.3	6649.6
57.5°	9917.3	10430.1	10874.6	10993.1	11107.4	11560.2	12580.3	12269.5	10908.1	9293.1	6992.4
60°	11097.6	12220.7	12942.6	13321.6	13589.1	14221.8	15191.6	14404.3	12481.3	10417.6	7423.0
62.5°	12750.3	14391.8	15598.5	15978.9	16089.0	16452.7	17155.0	15648.7	13338.3	10922.0	7460.6
65°	13980.7	15949.7	17394.7	17589.8	17458.8	17465.8	17649.7	15583.2	13019.2	10481.7	6814.1
67°	13899.9	16104.3	17584.2	17840.6	17659.5	17421.2	17134.1	14695.5	11993.6	9559.2	5966.8
67.5°	13775.9	15955.2	17502.0	17772.3	17606.5	17334.8	16915.3	14351.4	11674.5	9272.2	5794.1
70°	11908.6	14072.7	16155.9	16536.3	16606.0	16358.0	15180.5	12100.9	9478.4	7542.9	4499.5
72.5°	9269.4	11196.5	13257.5	13587.7	13855.3	13140.4	11048.8	8358.0	6908.8	5435.9	3257.9
75°	6120.1	8080.7	9120.3	9169.0	8827.6	7503.8	5398.3	4186.0	3852.9	3195.2	2016.4
77.5°	3274.7	4751.7	4781.0	4427.1	4265.4	3179.9	1290.4	712.1	792.9	900.2	802.6
80°	2442.8	3026.6	3507.4	3770.7	3848.8	2727.0	667.5	377.6	330.3	301.0	296.8
82.5°	2203.1	2923.5	3277.4	3421.0	3384.7	2243.5	374.8	253.6	210.4	228.5	260.6
85°	864.0	1560.7	2052.6	1987.1	1669.4	836.1	204.8	136.6	136.6	197.9	256.4
87.5°	177.0	320.5	434.8	415.3	373.5	161.6	100.3	82.2	83.6	160.2	242.5
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3	2278.3
2.5°	2263.0	2254.6	2249.1	2243.5	2237.9	2235.1	2230.9	2230.9	2222.6	2219.8	2217.0
5°	2272.8	2258.8	2249.1	2236.5	2226.8	2218.4	2207.3	2204.5	2194.7	2187.7	2185.0
7.5°	2314.6	2293.7	2272.8	2257.4	2243.5	2225.4	2212.8	2201.7	2191.9	2185.0	2176.6
10°	2394.0	2371.7	2342.4	2314.6	2296.4	2268.6	2249.1	2229.6	2218.4	2210.0	2198.9
12.5°	2511.0	2479.0	2444.1	2410.7	2380.0	2343.8	2324.3	2300.6	2286.7	2279.7	2271.4
15°	2630.9	2596.0	2552.8	2520.8	2486.0	2458.1	2440.0	2419.1	2407.9	2399.6	2394.0
17.5°	2753.5	2713.1	2682.4	2650.4	2633.7	2612.8	2589.1	2562.6	2530.5	2511.0	2484.6
20°	2878.9	2848.3	2830.1	2812.0	2792.5	2763.3	2715.9	2661.5	2601.6	2544.5	2490.1
22.5°	3025.2	3007.1	3004.3	2987.6	2947.2	2877.5	2789.7	2688.0	2586.3	2491.5	2417.7
25°	3231.5	3231.5	3217.5	3149.2	3054.5	2929.1	2781.4	2635.1	2499.9	2370.3	2272.8
27.5°	3490.6	3480.9	3412.6	3271.9	3101.9	2906.8	2708.9	2523.6	2350.8	2208.7	2083.2
30°	3776.3	3708.0	3561.7	3340.2	3085.1	2834.3	2591.9	2377.3	2173.8	1999.6	1851.9
32.5°	4073.1	3907.3	3643.9	3340.2	3026.6	2725.6	2445.5	2182.2	1949.5	1754.4	1578.8
35°	4342.1	4039.7	3663.4	3285.8	2912.4	2565.4	2240.7	1942.5	1663.8	1453.4	1261.1
37.5°	4585.9	4127.5	3642.5	3179.9	2746.5	2339.6	1959.2	1630.4	1315.4	1112.0	947.6
40°	4744.8	4145.6	3556.1	3014.1	2509.6	2034.5	1613.6	1245.8	996.3	811.0	700.9
42.5°	4843.7	4110.7	3416.8	2786.9	2190.5	1651.3	1210.9	893.2	707.9	604.8	563.0
45°	4899.4	4020.2	3210.6	2476.2	1804.5	1255.5	859.8	645.2	544.8	508.6	494.7
47.5°	4896.7	3873.8	2952.8	2116.7	1378.1	875.1	608.9	503.0	475.2	464.0	461.2
50°	4867.4	3694.1	2650.4	1726.5	994.9	610.3	482.1	451.5	444.5	437.5	434.8
52.5°	4827.0	3471.1	2315.9	1346.1	706.5	487.7	437.5	429.2	423.6	416.6	413.9
55°	4751.7	3196.6	1953.6	1013.1	553.2	440.3	422.2	419.4	412.5	402.7	397.1
57.5°	4659.8	2917.9	1606.7	791.5	489.1	429.2	419.4	415.3	405.5	394.4	383.2
60°	4626.3	2688.0	1334.9	667.5	473.8	433.4	426.4	420.8	406.9	390.2	377.6
62.5°	4417.3	2428.8	1139.9	618.7	482.1	451.5	448.7	440.3	419.4	399.9	380.4
65°	3876.6	2054.0	965.7	585.3	498.9	482.1	484.9	472.4	451.5	425.0	390.2
67°	3278.8	1675.0	804.0	553.2	511.4	514.2	523.9	514.2	487.7	450.1	402.7
67.5°	3120.0	1578.8	763.6	543.5	514.2	522.6	533.7	526.7	500.3	457.1	408.3
70°	2318.7	1112.0	569.9	491.9	514.2	547.6	572.7	579.7	550.4	490.5	419.4
72.5°	1633.1	717.6	437.5	426.4	466.8	511.4	558.8	582.5	549.0	483.5	404.1
75°	981.0	448.7	355.3	362.3	393.0	438.9	476.6	486.3	444.5	402.7	349.8
77.5°	454.3	298.2	278.7	288.4	317.7	338.6	338.6	319.1	287.1	262.0	250.8
80°	267.5	243.9	242.5	260.6	280.1	264.8	241.1	214.6	197.9	189.5	185.3
82.5°	250.8	260.6	277.3	281.5	266.2	228.5	199.3	172.8	164.4	160.2	156.1
85°	295.4	316.3	288.4	266.2	235.5	192.3	156.1	133.8	129.6	125.4	119.8
87.5°	273.1	260.6	227.1	195.1	161.6	117.1	85.0	76.6	82.2	80.8	78.0
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):

	160°	165°	170°	175°	180°
0°	2278.3	2278.3	2278.3	2278.3	2278.3
2.5°	2218.4	2218.4	2212.8	2210.0	2217.0
5°	2179.4	2180.8	2176.6	2175.2	2176.6
7.5°	2171.0	2169.6	2166.8	2164.1	2166.8
10°	2196.1	2194.7	2190.5	2193.3	2189.1
12.5°	2271.4	2279.7	2278.3	2281.1	2286.7
15°	2394.0	2392.6	2388.4	2391.2	2395.4
17.5°	2463.7	2452.5	2442.8	2438.6	2438.6
20°	2446.9	2414.9	2398.2	2388.4	2385.6
22.5°	2348.0	2302.0	2267.2	2258.8	2251.8
25°	2186.4	2129.2	2084.6	2074.9	2056.8
27.5°	1998.2	1921.6	1868.6	1857.5	1847.7
30°	1751.6	1663.8	1602.5	1563.5	1576.0
32.5°	1450.6	1367.0	1295.9	1233.2	1223.5
35°	1120.4	1028.4	965.7	937.8	919.7
37.5°	836.1	759.4	717.6	691.2	692.6
40°	639.6	599.2	576.9	558.8	560.2
42.5°	533.7	515.6	510.0	501.6	497.5
45°	483.5	478.0	479.4	471.0	468.2
47.5°	455.7	451.5	452.9	447.3	445.9
50°	433.4	430.6	432.0	427.8	426.4
52.5°	411.1	412.5	411.1	408.3	408.3
55°	391.6	390.2	393.0	388.8	388.8
57.5°	376.2	374.8	374.8	373.5	373.5
60°	367.9	362.3	360.9	360.9	362.3
62.5°	363.7	353.9	352.5	352.5	353.9
65°	365.1	349.8	344.2	342.8	341.4
67°	366.5	344.2	333.0	327.5	326.1
67.5°	367.9	341.4	328.9	323.3	320.5
70°	359.5	321.9	303.8	294.0	291.2
72.5°	338.6	298.2	275.9	263.4	260.6
75°	301.0	270.3	250.8	236.9	231.3
77.5°	232.7	218.8	211.8	203.4	200.7
80°	181.2	174.2	171.4	165.8	164.4
82.5°	150.5	143.5	139.3	132.4	128.2
85°	117.1	108.7	105.9	100.3	97.5
87.5°	76.6	72.5	71.1	64.1	61.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)