

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: P157846

Luminaire Tested: **VST-F10-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157846
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
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-5XQ-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (70) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26789.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U2 - G5

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

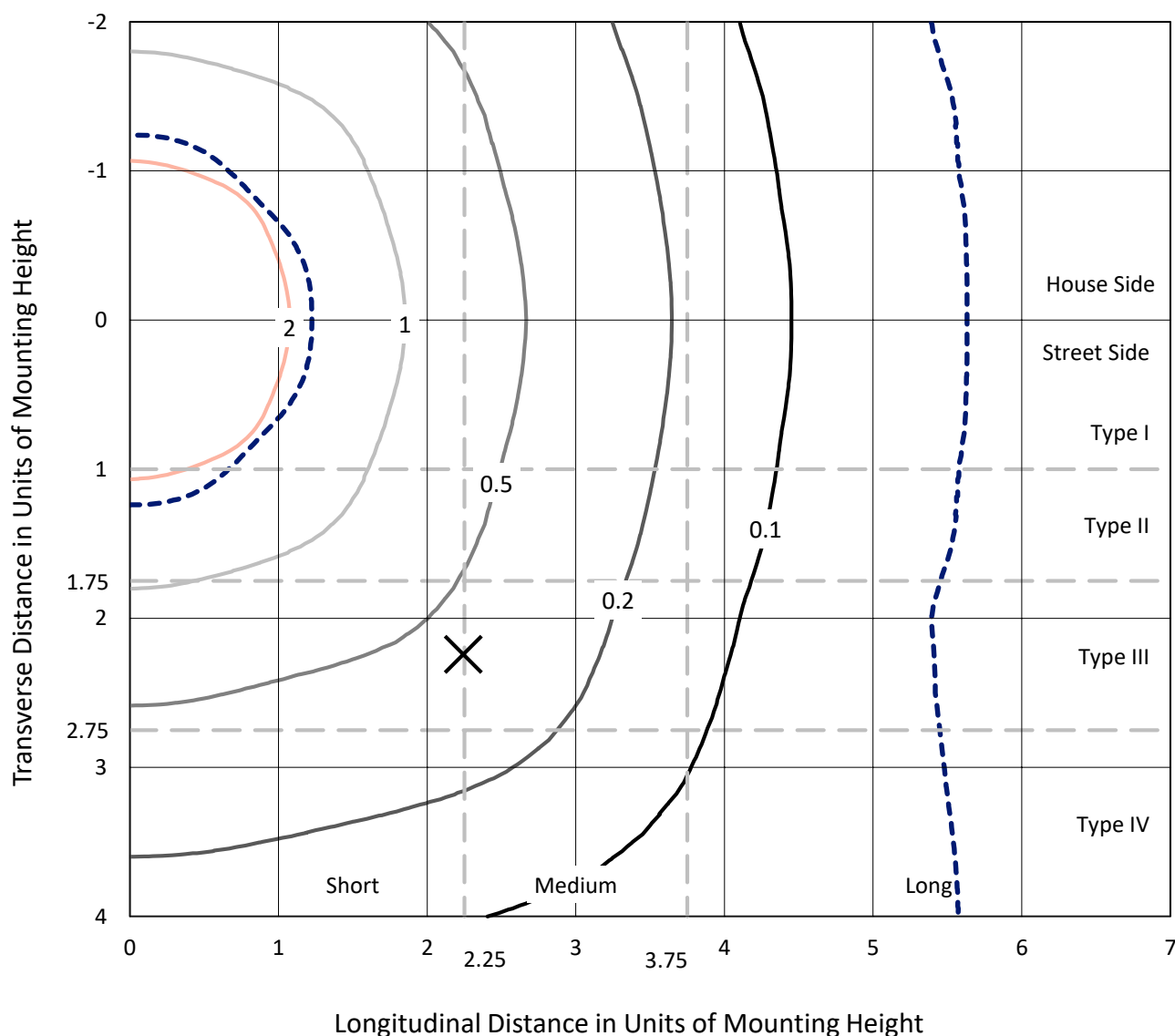


REPORT NUMBER: P157846

CATALOG NUMBER: VST-F10-LED-E-U-5XQ-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

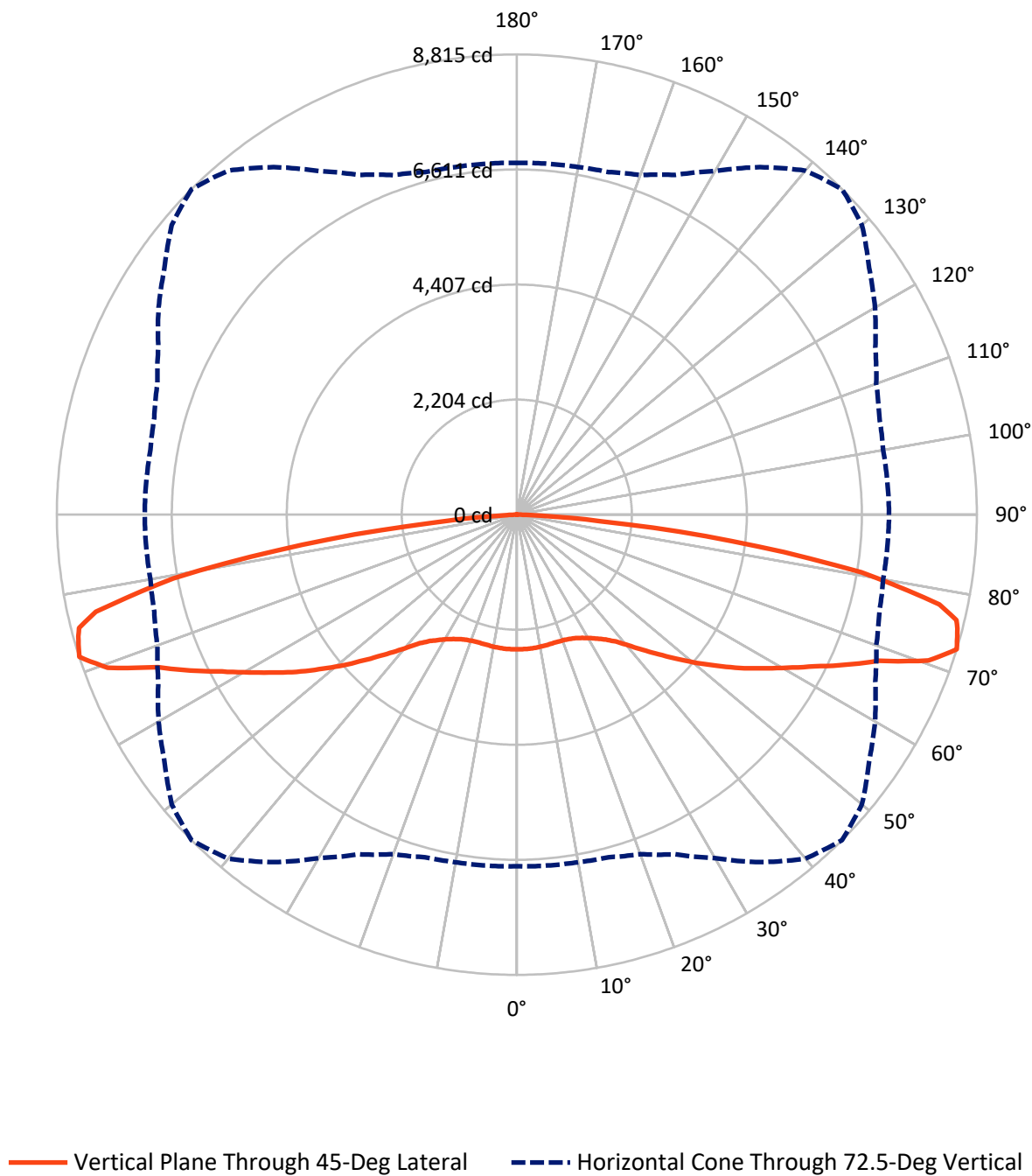


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157846

CATALOG NUMBER: VST-F10-LED-E-U-5XQ-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P157846

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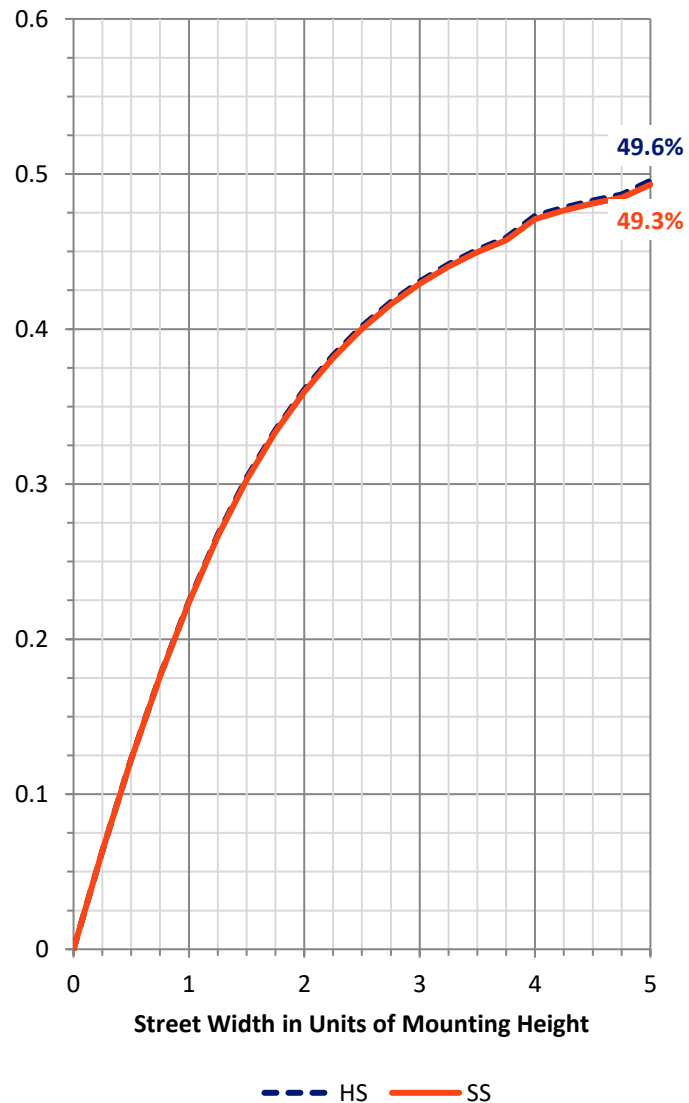
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13388.2	6.6	13394.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13388.2	6.6	13394.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	26776.4	13.1	26789.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	0.9
10°-20°	726.6	2.7
20°-30°	1215.0	4.5
30°-40°	1846.8	6.9
40°-50°	2925.0	10.9
50°-60°	4474.2	16.7
60°-70°	6403.3	23.9
70°-80°	7326.9	27.3
80°-90°	1612.6	6.0
90°-100°	1.4	0.0
100°-110°	2.8	0.0
110°-120°	1.9	0.0
120°-130°	2.1	0.0
130°-140°	2.0	0.0
140°-150°	1.5	0.0
150°-160°	1.0	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-90°	26776.4	100.0
0°-180°	26789.5	100.0

Coefficient of Utilization



REPORT NUMBER: P157846

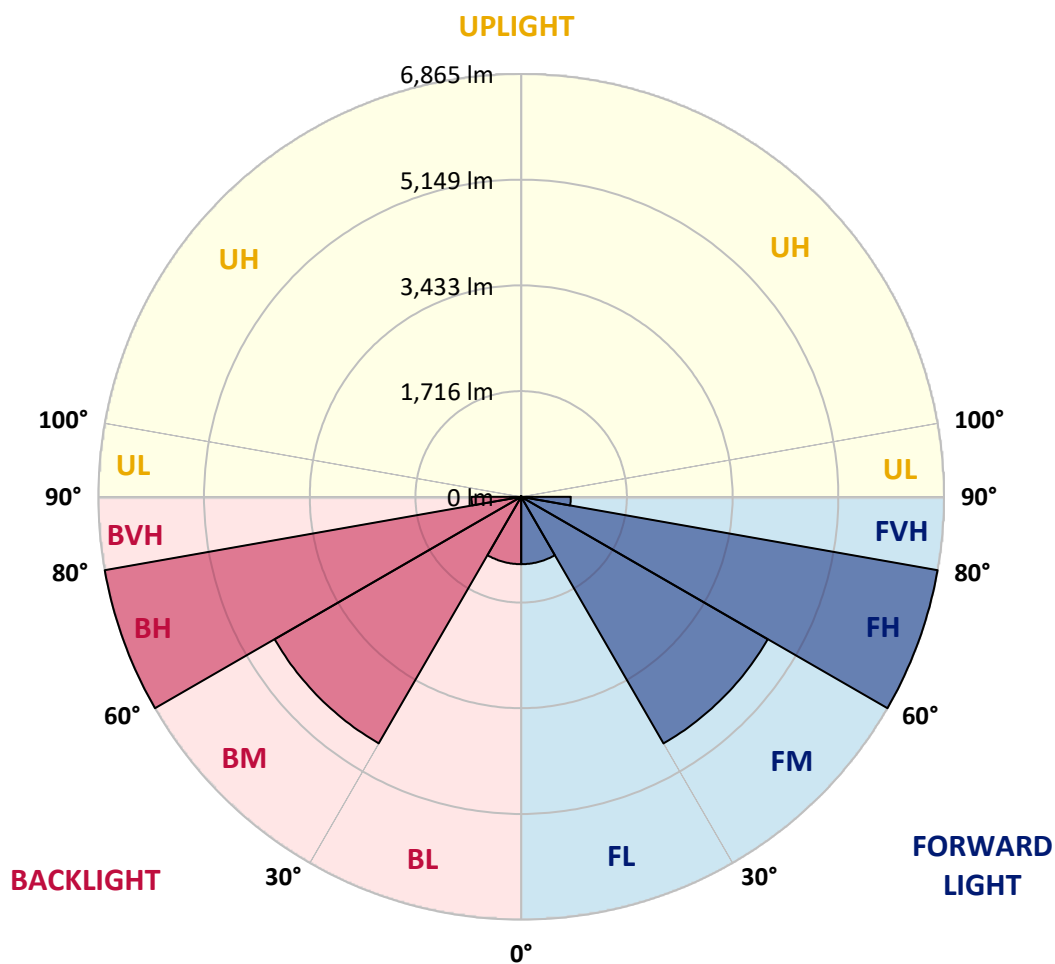
CATALOG NUMBER: VST-F10-LED-E-U-5XQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1093.8	4.1			
FM	(30°-60°)	4623.0	17.3			
FH	(60°-80°)	6865.1	25.6			G3/7500
FVH	(80°-90°)	806.3	3.0			G5
BL	(0°-30°)	1093.8	4.1	B3/2500		
BM	(30°-60°)	4623.0	17.3	B3/5000		
BH	(60°-80°)	6865.1	25.6	B5		G3/7500
BVH	(80°-90°)	806.3	3.0			G5
UL	(90°-100°)	1.4	0.0		U1/10	
UH	(100°-180°)	6.6	0.0		U1/10	

BUG Rating: B5-U2-G5

Type V Short





REPORT NUMBER: P157846

CATALOG NUMBER: VST-F10-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5
2.5°	2580.2	2576.8	2578.5	2581.9	2580.2	2580.2	2578.5	2578.5	2581.9	2578.5	2580.2
5°	2581.9	2578.5	2580.2	2581.9	2580.2	2581.9	2580.2	2580.2	2580.2	2578.5	2581.9
7.5°	2575.1	2575.1	2576.8	2576.8	2575.1	2576.8	2576.8	2576.8	2575.1	2575.1	2578.5
10°	2571.7	2570.0	2570.0	2571.7	2570.0	2570.0	2571.7	2571.7	2568.3	2568.3	2571.7
12.5°	2566.6	2564.9	2564.9	2564.9	2563.3	2563.3	2564.9	2564.9	2563.3	2561.6	2566.6
15°	2563.3	2561.6	2561.6	2561.6	2558.2	2559.9	2559.9	2559.9	2558.2	2556.5	2561.6
17.5°	2561.6	2559.9	2559.9	2559.9	2558.2	2558.2	2558.2	2558.2	2556.5	2556.5	2559.9
20°	2564.9	2564.9	2564.9	2564.9	2563.3	2563.3	2563.3	2564.9	2564.9	2564.9	2568.3
22.5°	2573.4	2573.4	2575.1	2576.8	2576.8	2580.2	2581.9	2583.6	2583.6	2585.3	2588.7
25°	2595.4	2595.4	2597.1	2598.8	2603.9	2607.3	2614.1	2617.5	2619.2	2619.2	2620.9
27.5°	2636.1	2637.8	2641.2	2644.6	2651.3	2656.4	2663.2	2670.0	2671.7	2673.4	2675.1
30°	2686.9	2688.6	2695.4	2698.8	2707.3	2717.4	2725.9	2732.7	2737.7	2741.1	2739.4
32.5°	2759.8	2763.2	2771.6	2776.7	2788.6	2798.7	2810.6	2820.8	2825.8	2830.9	2829.2
35°	2861.4	2869.9	2878.4	2883.4	2895.3	2903.8	2919.0	2929.2	2939.4	2936.0	2937.7
37.5°	3012.2	3019.0	3020.7	3024.1	3035.9	3042.7	3059.6	3073.2	3078.3	3081.7	3083.4
40°	3215.5	3215.5	3224.0	3217.2	3232.4	3234.1	3254.5	3273.1	3278.2	3291.7	3281.6
42.5°	3452.7	3451.0	3456.1	3451.0	3451.0	3467.9	3484.9	3518.8	3522.1	3539.1	3528.9
45°	3710.2	3710.2	3705.1	3706.8	3710.2	3728.8	3749.2	3786.4	3803.4	3813.5	3806.8
47.5°	3989.7	3982.9	3981.3	3979.6	3989.7	4010.1	4040.6	4076.1	4118.5	4121.9	4118.5
50°	4272.6	4271.0	4259.1	4269.3	4276.0	4286.2	4343.8	4391.2	4435.3	4462.4	4453.9
52.5°	4570.8	4555.6	4555.6	4555.6	4572.5	4604.7	4655.5	4719.9	4779.2	4808.0	4802.9
55°	4872.4	4867.3	4852.0	4845.3	4867.3	4913.0	4985.9	5063.8	5141.7	5185.8	5168.9
57.5°	5148.5	5140.1	5141.7	5143.4	5168.9	5229.8	5314.6	5417.9	5502.6	5550.0	5538.2
60°	5365.4	5355.2	5373.8	5378.9	5424.7	5526.3	5661.9	5792.3	5904.1	5951.6	5932.9
62.5°	5611.0	5604.3	5616.1	5614.4	5663.5	5777.1	5958.3	6166.7	6336.1	6397.1	6370.0
65°	6007.5	5987.1	5982.0	5963.4	5995.6	6083.7	6265.0	6507.2	6778.3	6934.2	6896.9
67.5°	6481.8	6476.7	6459.8	6449.6	6461.5	6571.6	6746.1	6979.9	7256.0	7471.2	7518.6
70°	6795.2	6802.0	6819.0	6844.4	6942.6	7156.1	7474.6	7828.7	8208.2	8369.1	8340.3
72.5°	6735.9	6746.1	6759.7	6791.9	6920.6	7176.4	7596.6	8125.1	8601.2	8814.7	8631.7
75°	6446.2	6454.7	6485.2	6534.3	6691.9	7001.9	7454.3	8015.0	8506.3	8719.8	8528.4
76°	6178.6	6205.7	6261.6	6319.2	6508.9	6846.1	7328.9	7926.9	8447.0	8663.9	8479.2
77.5°	5572.1	5595.8	5641.5	5741.5	5956.6	6388.6	6952.8	7540.7	8082.8	8277.6	8121.8
80°	4193.0	4213.4	4255.7	4376.0	4562.3	4830.0	5267.1	5841.4	6436.1	6691.9	6590.2
82.5°	1770.4	1794.1	1961.8	2136.3	2341.3	2631.0	2915.6	3423.9	3861.0	4152.4	3996.5
85°	194.8	240.6	296.5	403.2	494.7	659.0	820.0	1128.3	1426.5	1607.7	1421.4
87.5°	33.9	39.0	55.9	71.2	79.6	91.5	110.1	154.2	210.1	181.3	184.7
90°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
97.5°	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
100°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
102.5°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
105°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
107.5°	1.7	1.7	1.7	1.7	3.4	3.4	1.7	1.7	1.7	3.4	1.7



REPORT NUMBER: P157846

CATALOG NUMBER: VST-F10-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
112.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
115°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
117.5°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
120°	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
122.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
125°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
127.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
130°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
132.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
135°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
137.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
140°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
142.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
145°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	1.7
147.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7
150°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	0.0	0.0	0.0
152.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	0.0
155°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	1.7
157.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	0.0	0.0
160°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	0.0	0.0
162.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	0.0	0.0
165°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157846

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5	2578.5
2.5°	2578.5	2578.5	2581.9	2580.2	2580.2	2581.9	2585.3	2583.6
5°	2580.2	2581.9	2578.5	2580.2	2581.9	2581.9	2583.6	2581.9
7.5°	2576.8	2576.8	2576.8	2578.5	2580.2	2578.5	2580.2	2580.2
10°	2570.0	2571.7	2570.0	2573.4	2575.1	2575.1	2576.8	2576.8
12.5°	2564.9	2564.9	2564.9	2568.3	2570.0	2570.0	2571.7	2570.0
15°	2559.9	2559.9	2558.2	2561.6	2564.9	2564.9	2566.6	2566.6
17.5°	2558.2	2558.2	2556.5	2559.9	2563.3	2563.3	2564.9	2564.9
20°	2563.3	2564.9	2561.6	2564.9	2568.3	2570.0	2570.0	2570.0
22.5°	2583.6	2581.9	2576.8	2578.5	2580.2	2580.2	2580.2	2580.2
25°	2614.1	2610.7	2605.6	2603.9	2602.2	2600.5	2600.5	2600.5
27.5°	2666.6	2661.5	2653.0	2651.3	2649.7	2646.3	2646.3	2646.3
30°	2729.3	2722.5	2712.3	2708.9	2703.9	2700.5	2698.8	2697.1
32.5°	2819.1	2805.5	2793.7	2785.2	2780.1	2769.9	2768.2	2764.9
35°	2922.4	2912.2	2895.3	2890.2	2881.8	2876.7	2875.0	2866.5
37.5°	3064.7	3052.9	3037.6	3034.2	3032.5	3027.4	3027.4	3025.8
40°	3262.9	3251.1	3237.5	3224.0	3227.4	3229.1	3229.1	3222.3
42.5°	3505.2	3486.6	3459.5	3467.9	3462.8	3456.1	3469.6	3461.2
45°	3781.3	3755.9	3735.6	3727.1	3727.1	3718.7	3732.2	3732.2
47.5°	4088.0	4047.3	4010.1	4011.8	3998.2	4001.6	4010.1	4021.9
50°	4411.6	4357.4	4321.8	4304.8	4291.3	4296.4	4311.6	4315.0
52.5°	4747.0	4680.9	4633.5	4608.1	4591.1	4597.9	4609.8	4620.0
55°	5096.0	5023.2	4952.0	4924.9	4904.6	4918.1	4919.8	4933.4
57.5°	5460.2	5360.3	5277.3	5236.6	5216.3	5229.8	5240.0	5253.6
60°	5827.9	5712.7	5614.4	5567.0	5538.2	5556.8	5580.5	5587.3
62.5°	6254.8	6095.6	5985.4	5917.7	5904.1	5922.8	5929.5	5949.9
65°	6759.7	6568.2	6415.8	6332.7	6329.3	6339.5	6354.8	6359.8
67.5°	7335.7	7122.2	6917.2	6834.2	6802.0	6832.5	6847.8	6868.1
70°	8148.9	7855.8	7559.3	7374.6	7296.7	7273.0	7279.8	7301.8
72.5°	8240.4	7925.2	7579.6	7328.9	7191.7	7129.0	7127.3	7130.7
75°	8040.4	7537.3	7293.3	7005.3	6810.5	6708.8	6695.3	6693.6
76°	7940.5	7345.8	6993.5	6764.7	6531.0	6427.6	6412.4	6403.9
77.5°	7518.6	6879.9	6349.7	6210.8	5987.1	5856.7	5883.8	5861.8
80°	6027.8	5394.2	4894.4	4503.1	4514.9	4420.0	4381.1	4369.2
82.5°	3552.6	3032.5	2480.2	2156.7	1848.3	1767.0	1521.3	1465.4
85°	1135.1	804.7	487.9	354.1	240.6	201.6	157.6	144.0
87.5°	150.8	118.6	96.6	93.2	84.7	72.8	47.4	33.9
90°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
97.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
100°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
102.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7
105°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
107.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4



REPORT NUMBER: P157846

CATALOG NUMBER: VST-F10-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
112.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
115°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
117.5°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
120°	1.7	1.7	1.7	1.7	1.7	3.4	3.4	3.4
122.5°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
125°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
127.5°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
130°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
132.5°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
135°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
137.5°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
140°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
142.5°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
145°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
147.5°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
150°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
152.5°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
155°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
157.5°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
160°	1.7	1.7	1.7	1.7	3.4	3.4	3.4	3.4
162.5°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
165°	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)