

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: P159386

Luminaire Tested: **VST-F10-LED-E-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159386
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)
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-T2-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (70) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26146.8 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

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



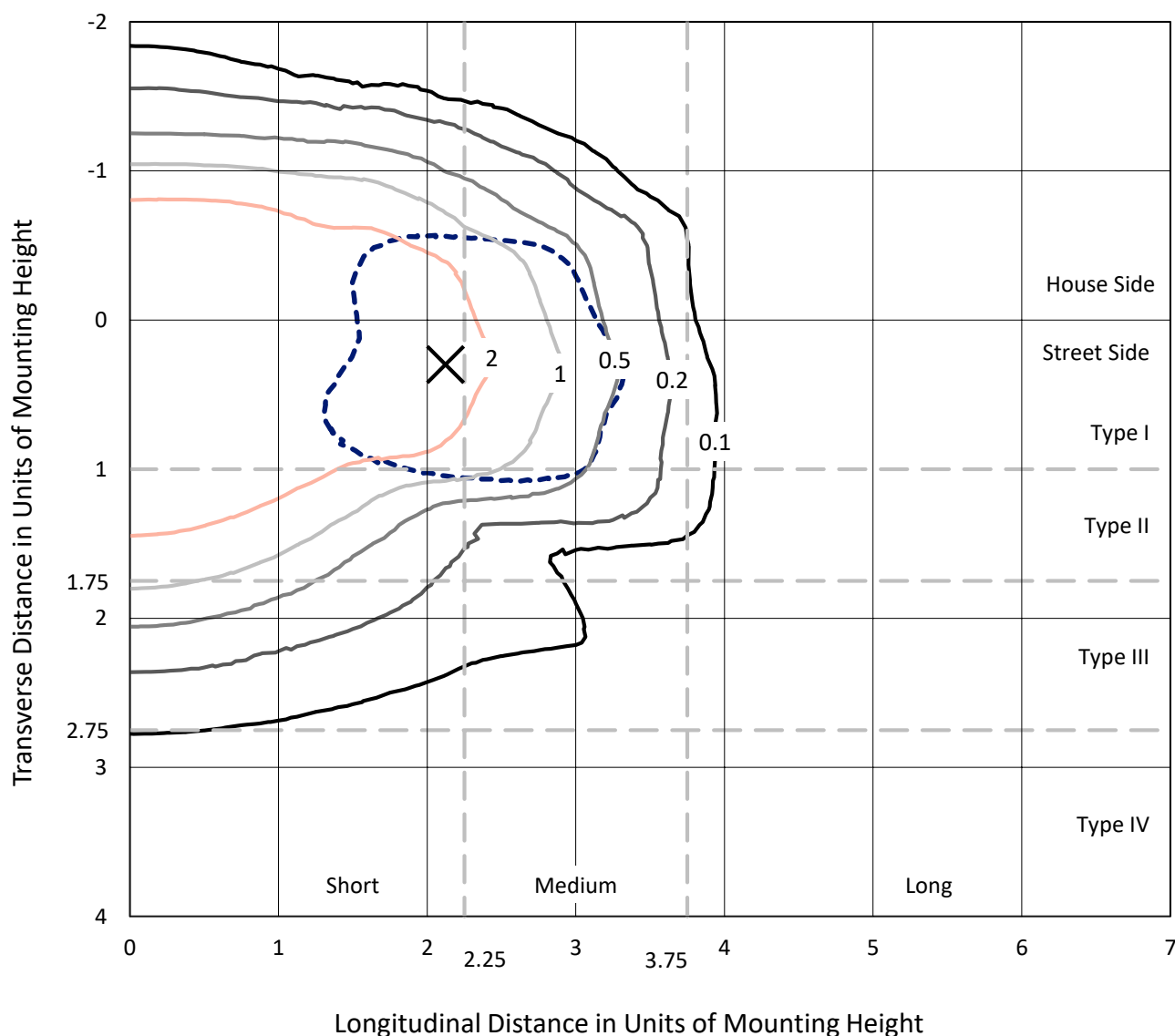
REPORT NUMBER: P159386

CATALOG NUMBER: VST-F10-LED-E-U-T2-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

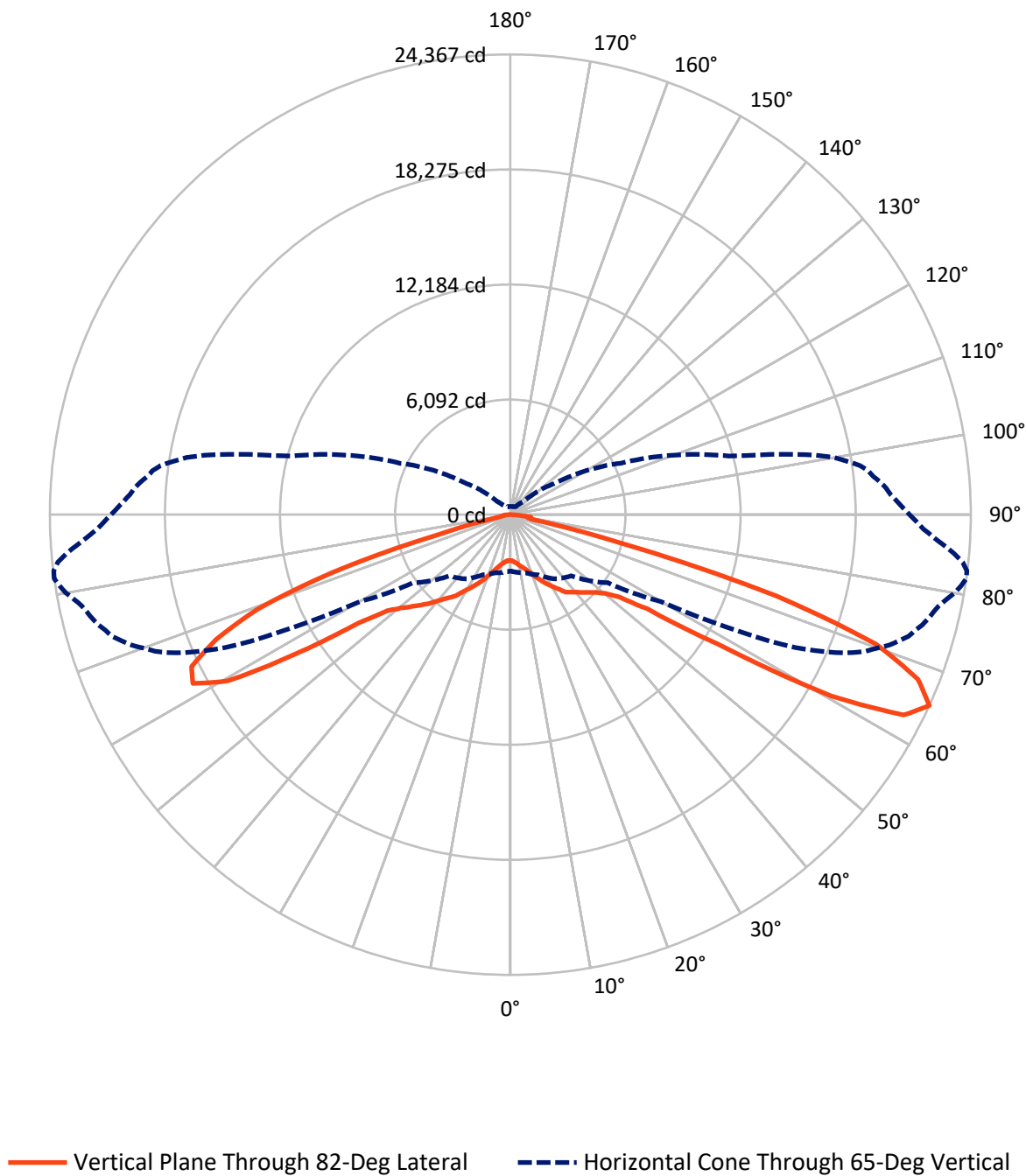


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159386

CATALOG NUMBER: VST-F10-LED-E-U-T2-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P159386

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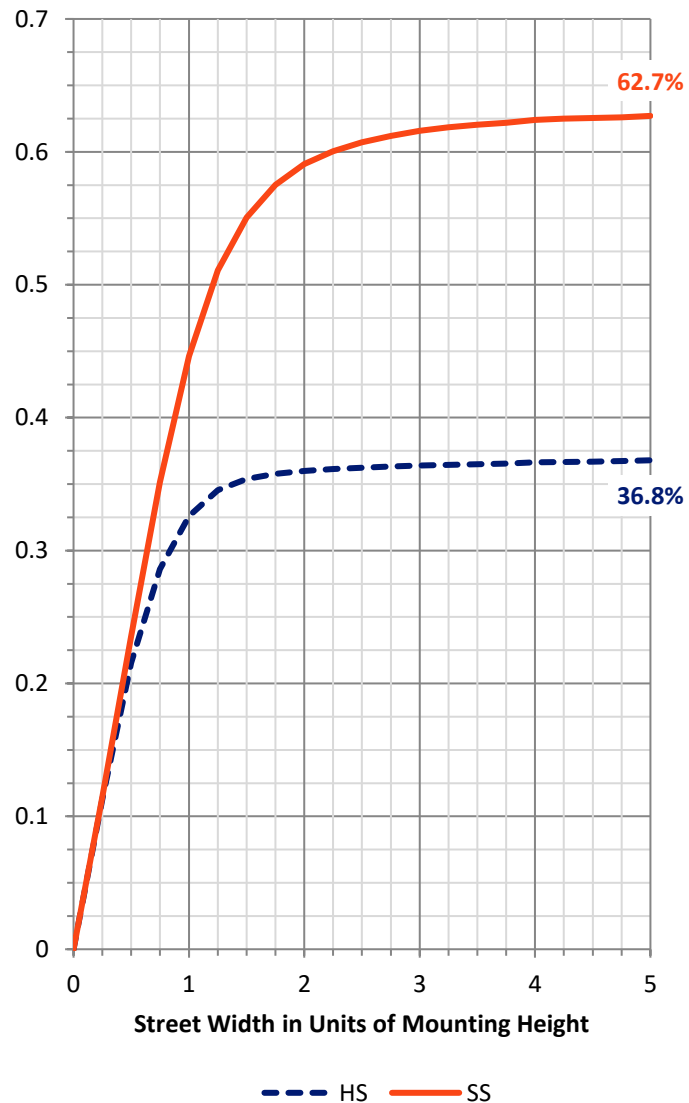
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9735.3	0.0	9735.3
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	16411.5	0.0	16411.5
	% Fixture	62.8	0.0	62.8
Total	Lumens	26146.8	0.0	26146.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	0.9
10°-20°	865.4	3.3
20°-30°	1714.7	6.6
30°-40°	2939.4	11.2
40°-50°	4415.8	16.9
50°-60°	6134.9	23.5
60°-70°	6999.0	26.8
70°-80°	2411.1	9.2
80°-90°	420.2	1.6
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°	26146.8	100.0
0°-180°	26146.8	100.0

Coefficient of Utilization



REPORT NUMBER: P159386

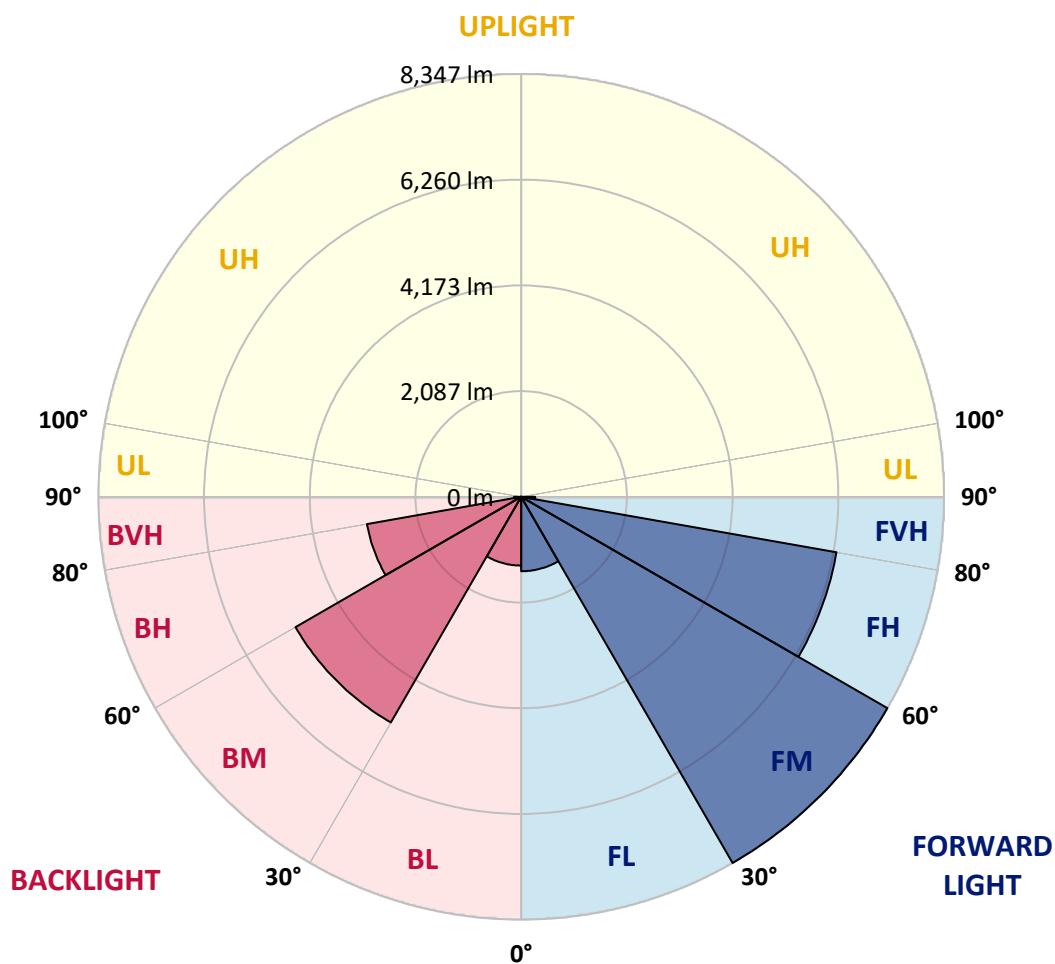
CATALOG NUMBER: VST-F10-LED-E-U-T2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.9	5.6			
FM	(30°-60°)	8346.6	31.9			
FH	(60°-80°)	6319.4	24.2			G3/7500
FVH	(80°-90°)	276.6	1.1			G3/500
BL	(0°-30°)	1357.5	5.2	B3/2500		
BM	(30°-60°)	5143.5	19.7	B4/8500		
BH	(60°-80°)	3090.7	11.8	B4/5000		G4/5000
BVH	(80°-90°)	143.6	0.5			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 II Short





REPORT NUMBER: P159386

CATALOG NUMBER: VST-F10-LED-E-U-T2-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2564.9	2566.6	2564.9	2559.9	2558.2	2542.9	2526.0	2517.5	2515.8	2509.0	2510.7
5°	2724.2	2719.1	2712.3	2703.9	2695.4	2670.0	2641.2	2625.9	2620.9	2615.8	2609.0
7.5°	2866.5	2869.9	2866.5	2854.6	2832.6	2800.4	2763.2	2739.4	2737.7	2732.7	2727.6
10°	3049.5	3057.9	3037.6	3017.3	2986.8	2937.7	2895.3	2864.8	2859.7	2853.0	2849.6
12.5°	3247.7	3249.4	3242.6	3196.9	3146.0	3078.3	3017.3	2986.8	2980.0	2971.5	2968.2
15°	3459.5	3461.2	3423.9	3379.8	3301.9	3220.6	3135.9	3102.0	3093.5	3095.2	3081.7
17.5°	3627.2	3630.6	3595.0	3539.1	3445.9	3349.3	3257.9	3230.7	3225.7	3227.4	3220.6
20°	3700.0	3705.1	3683.1	3640.7	3552.6	3467.9	3401.9	3384.9	3383.2	3379.8	3393.4
22.5°	3696.6	3698.3	3689.9	3672.9	3620.4	3571.3	3562.8	3573.0	3571.3	3574.7	3586.5
25°	3666.1	3671.2	3669.5	3676.3	3667.8	3686.5	3725.4	3761.0	3766.1	3772.9	3794.9
27.5°	3744.1	3754.2	3742.4	3749.2	3762.7	3825.4	3905.0	3959.2	3969.4	3988.0	4006.7
30°	4049.0	4035.5	4020.2	4003.3	4011.8	4050.7	4140.5	4187.9	4193.0	4206.6	4232.0
32.5°	4501.4	4486.1	4472.6	4445.5	4438.7	4421.7	4452.2	4464.1	4462.4	4475.9	4482.7
35°	5011.3	5013.0	5009.6	5029.9	5046.9	4960.5	4853.7	4824.9	4836.8	4821.6	4824.9
37.5°	5446.7	5451.8	5541.6	5653.4	5685.6	5631.4	5397.6	5282.4	5243.4	5238.3	5199.4
40°	5929.5	5929.5	6065.1	6202.3	6292.1	6359.8	6082.0	5878.7	5795.7	5772.0	5675.4
42.5°	6459.8	6432.7	6556.4	6707.1	6873.2	7027.3	6883.3	6654.6	6536.0	6493.7	6324.3
45°	6895.2	6878.3	6939.2	7079.9	7349.2	7650.8	7671.1	7554.2	7483.1	7395.0	7239.1
47.5°	7162.9	7154.4	7190.0	7342.5	7679.6	8167.5	8440.3	8499.6	8457.2	8389.4	8238.7
50°	7267.9	7256.0	7281.5	7450.9	7828.7	8472.5	9075.6	9355.1	9375.4	9390.7	9343.2
52.5°	7230.6	7215.4	7267.9	7410.2	7803.3	8579.2	9572.0	10109.0	10198.8	10275.0	10430.9
55°	6873.2	6849.5	6991.8	7259.4	7693.1	8540.2	9934.5	10834.1	11023.8	11227.1	11572.7
57.5°	6326.0	6305.6	6510.6	6878.3	7498.3	8433.5	10178.5	11750.6	12177.6	12543.5	13524.4
60°	5799.1	5782.1	5902.4	6258.2	6866.4	7913.4	9876.9	12059.0	12775.6	13565.1	15355.8
62.5°	4857.1	4811.4	4972.3	5272.2	5656.8	6546.2	8560.5	11372.8	12477.4	13637.9	16065.6
65°	2985.1	3051.2	3190.1	3522.1	4152.4	4575.9	6287.0	9200.9	10657.9	12113.2	15262.6
67.5°	1895.8	1914.4	2017.7	2248.1	2736.1	3161.3	3810.1	5773.7	6896.9	8328.4	11982.7
70°	1624.7	1636.6	1724.6	1965.2	2302.4	2825.8	2883.4	3015.6	3418.8	4330.3	7044.3
72.5°	1280.8	1301.1	1370.6	1578.9	1985.5	2548.0	3559.4	2383.7	2302.4	2378.6	3437.4
75°	762.4	786.1	843.7	957.2	1275.7	1948.3	3728.8	2773.3	2585.3	2437.9	2371.8
77.5°	403.2	386.3	425.2	491.3	655.6	1038.5	2802.1	3398.5	3266.3	3090.1	2715.7
80°	199.9	206.7	218.5	232.1	293.1	421.8	1401.1	3515.4	3896.5	4066.0	3733.9
82.5°	79.6	89.8	127.1	135.5	160.9	179.6	450.6	1948.3	2790.3	3784.7	4941.8
85°	40.7	39.0	67.8	81.3	94.9	84.7	159.3	726.8	1307.9	2038.1	3301.9
87.5°	5.1	6.8	15.2	20.3	28.8	27.1	45.7	157.6	250.7	355.8	499.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159386

CATALOG NUMBER: VST-F10-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2502.3	2500.6	2500.6	2493.8	2493.8	2495.5	2490.4	2487.0	2487.0	2488.7	2481.9
5°	2603.9	2598.8	2598.8	2592.1	2583.6	2583.6	2576.8	2575.1	2571.7	2564.9	2559.9
7.5°	2722.5	2717.4	2708.9	2703.9	2700.5	2695.4	2686.9	2683.5	2676.8	2670.0	2663.2
10°	2844.5	2837.7	2834.3	2825.8	2822.5	2812.3	2807.2	2808.9	2795.3	2790.3	2792.0
12.5°	2966.5	2959.7	2947.8	2944.4	2942.7	2932.6	2927.5	2924.1	2913.9	2912.2	2907.2
15°	3074.9	3078.3	3073.2	3064.7	3057.9	3056.2	3051.2	3047.8	3041.0	3034.2	3027.4
17.5°	3215.5	3220.6	3213.8	3201.9	3201.9	3200.3	3201.9	3200.3	3188.4	3193.5	3190.1
20°	3395.1	3398.5	3381.5	3386.6	3390.0	3388.3	3393.4	3398.5	3395.1	3395.1	3400.2
22.5°	3601.8	3606.8	3596.7	3603.5	3613.6	3605.2	3620.4	3618.7	3622.1	3627.2	3628.9
25°	3813.5	3823.7	3815.2	3833.9	3827.1	3833.9	3852.5	3847.4	3855.9	3869.4	3874.5
27.5°	4025.3	4032.1	4033.8	4045.6	4057.5	4067.7	4091.4	4091.4	4098.2	4121.9	4121.9
30°	4247.2	4254.0	4260.8	4277.7	4284.5	4303.1	4326.9	4333.6	4330.3	4364.1	4374.3
32.5°	4503.1	4509.8	4521.7	4542.0	4550.5	4569.1	4569.1	4587.8	4601.3	4630.1	4631.8
35°	4843.6	4848.7	4843.6	4841.9	4853.7	4879.2	4880.8	4908.0	4919.8	4948.6	4957.1
37.5°	5184.1	5182.4	5160.4	5136.7	5138.4	5128.2	5121.4	5133.3	5138.4	5140.1	5158.7
40°	5643.2	5599.2	5565.3	5506.0	5478.9	5436.5	5411.1	5409.4	5382.3	5378.9	5384.0
42.5°	6244.6	6193.8	6114.2	6014.2	5938.0	5860.1	5802.5	5768.6	5709.3	5678.8	5653.4
45°	7084.9	6959.6	6864.7	6746.1	6598.7	6463.2	6320.9	6256.5	6143.0	6073.5	5995.6
47.5°	8111.6	7987.9	7842.2	7720.2	7527.1	7339.1	7144.2	6973.1	6774.9	6617.4	6488.6
50°	9226.3	9153.5	9048.5	8935.0	8685.9	8562.2	8316.6	8084.5	7871.0	7589.8	7344.1
52.5°	10369.9	10412.3	10388.5	10347.9	10190.3	10142.9	9931.1	9648.2	9433.0	9239.9	8813.0
55°	11779.4	11830.3	11931.9	11991.2	11972.6	12092.9	12040.3	11820.1	11733.7	11643.9	11340.6
57.5°	13936.1	14298.6	14686.6	15027.1	15106.7	15533.7	15442.2	15662.4	15818.3	15706.5	15608.2
60°	16235.1	16966.9	17625.9	18315.5	18876.2	19296.4	19852.1	20226.5	20462.0	20885.5	20919.4
62.5°	17161.8	18156.2	18993.1	19792.8	20458.6	21041.4	21542.8	22059.5	22483.1	22866.0	23142.1
65°	16653.5	17692.0	18706.8	19518.3	20158.7	20660.2	21205.7	21615.7	22032.4	22278.1	22567.8
67.5°	13844.6	15220.3	16468.8	17383.7	18259.6	18769.5	19415.0	19818.2	20260.4	20519.6	20705.9
70°	9026.4	10817.2	12523.2	13910.7	15093.2	15687.8	16467.2	17017.7	17549.7	17563.3	17873.3
72.5°	4870.7	6368.3	7796.5	9214.5	10563.0	11354.2	12123.3	12792.5	13321.1	13095.8	13404.1
75°	2712.3	3413.7	4194.7	5046.9	5868.5	6320.9	6895.2	6898.6	7171.3	6742.7	6851.1
77.5°	2609.0	2576.8	2588.7	2612.4	2653.0	2566.6	2564.9	2512.4	2431.1	2283.7	2309.1
80°	3427.3	3017.3	2722.5	2260.0	1819.5	1484.1	1390.9	1412.9	1479.0	1611.1	1778.9
82.5°	4955.4	4609.8	4115.1	3386.6	2658.1	2049.9	1684.0	1494.2	1485.8	1617.9	1872.0
85°	3608.5	3816.9	3784.7	3159.6	2605.6	2116.0	1540.0	1301.1	1077.5	1025.0	1114.8
87.5°	532.0	440.5	496.4	415.1	301.6	233.8	205.0	164.3	157.6	160.9	176.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159386

CATALOG NUMBER: VST-F10-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2483.6	2476.8	2470.1	2475.2	2470.1	2468.4	2463.3	2459.9	2458.2	2458.2	2458.2
5°	2559.9	2551.4	2546.3	2544.6	2539.5	2534.5	2532.8	2524.3	2522.6	2522.6	2517.5
7.5°	2663.2	2656.4	2648.0	2642.9	2639.5	2631.0	2622.5	2620.9	2619.2	2612.4	2607.3
10°	2783.5	2773.3	2763.2	2763.2	2756.4	2754.7	2746.2	2734.4	2732.7	2722.5	2719.1
12.5°	2897.0	2893.6	2881.8	2878.4	2873.3	2868.2	2863.1	2858.0	2853.0	2844.5	2847.9
15°	3032.5	3024.1	3013.9	3015.6	3013.9	3007.1	3000.3	2995.3	2991.9	2988.5	2988.5
17.5°	3195.2	3191.8	3190.1	3181.6	3174.8	3179.9	3179.9	3179.9	3171.5	3173.1	3174.8
20°	3401.9	3405.2	3401.9	3395.1	3393.4	3398.5	3386.6	3405.2	3395.1	3388.3	3391.7
22.5°	3630.6	3642.4	3628.9	3630.6	3639.0	3642.4	3630.6	3645.8	3640.7	3630.6	3639.0
25°	3879.6	3888.1	3881.3	3879.6	3884.7	3896.5	3894.9	3893.2	3905.0	3894.9	3899.9
27.5°	4135.4	4140.5	4143.9	4149.0	4152.4	4150.7	4157.4	4157.4	4164.2	4152.4	4157.4
30°	4389.5	4389.5	4396.3	4403.1	4403.1	4403.1	4416.7	4418.3	4408.2	4411.6	4399.7
32.5°	4660.6	4662.3	4669.1	4669.1	4682.6	4684.3	4699.6	4679.2	4699.6	4682.6	4686.0
35°	4979.1	5001.1	5004.5	5021.5	5035.0	5040.1	5040.1	5041.8	5060.4	5046.9	5052.0
37.5°	5165.5	5170.5	5184.1	5192.6	5192.6	5199.4	5204.4	5199.4	5204.4	5202.7	5207.8
40°	5385.7	5380.6	5395.9	5399.3	5392.5	5401.0	5399.3	5394.2	5407.7	5397.6	5404.3
42.5°	5653.4	5624.6	5622.9	5636.4	5622.9	5629.7	5628.0	5616.1	5633.1	5638.1	5633.1
45°	5939.7	5924.4	5894.0	5894.0	5880.4	5875.3	5877.0	5875.3	5877.0	5897.3	5904.1
47.5°	6405.6	6312.4	6259.9	6210.8	6170.1	6168.4	6149.8	6159.9	6173.5	6207.4	6237.9
50°	7186.6	6971.4	6839.3	6717.3	6629.2	6598.7	6563.1	6559.8	6571.6	6610.6	6663.1
52.5°	8579.2	8281.0	7999.8	7738.9	7511.9	7337.4	7251.0	7205.2	7188.3	7227.2	7278.1
55°	11127.2	10564.7	10168.3	9904.0	9339.9	9101.0	8794.3	8653.7	8516.5	8530.1	8616.5
57.5°	15481.2	15177.9	14845.8	14383.3	14037.7	13621.0	12855.2	12428.3	12446.9	12546.9	12235.2
60°	21187.1	20880.4	20743.2	20323.0	20082.5	19914.7	19508.2	18800.0	18549.3	18501.8	17929.2
62.5°	23353.9	23426.7	23535.1	23653.7	23647.0	23719.8	23364.0	23133.6	22843.9	22467.8	21902.0
65°	22788.0	22972.7	23192.9	23511.4	23874.0	24141.7	24367.0	24339.9	24068.8	23567.3	22969.3
67.5°	20871.9	21054.9	21215.9	21642.8	22237.4	22781.3	23262.4	23589.4	23408.1	22993.0	22295.0
70°	17991.9	18124.0	18225.7	18596.7	19248.9	19913.1	20541.6	21090.5	21034.6	20531.4	19974.0
72.5°	13036.5	13356.7	13529.5	13504.1	13907.3	14651.0	14739.1	15208.4	15338.8	14796.7	13909.0
75°	6351.4	6356.5	6156.5	6090.5	6110.8	6239.6	5993.9	6009.2	5924.4	5539.9	5223.1
77.5°	2219.3	2158.3	2012.7	1839.8	1592.5	1360.4	1124.9	1023.3	989.4	889.4	820.0
80°	1912.7	2002.5	1973.7	1831.4	1570.5	1252.0	935.2	692.9	591.3	555.7	521.8
82.5°	2171.9	2517.5	2737.7	2725.9	2368.4	1778.9	1109.7	637.0	454.0	398.1	365.9
85°	1211.3	1302.8	1328.2	1209.6	1004.6	686.1	382.9	269.4	228.7	208.4	188.1
87.5°	193.1	176.2	172.8	150.8	142.3	130.4	115.2	108.4	100.0	94.9	94.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159386

CATALOG NUMBER: VST-F10-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2456.5	2454.8	2449.7	2444.7	2441.3	2439.6	2437.9	2434.5	2432.8	2431.1	2427.7
5°	2514.1	2510.7	2502.3	2493.8	2490.4	2485.3	2480.2	2476.8	2473.5	2471.8	2465.0
7.5°	2603.9	2600.5	2590.4	2583.6	2581.9	2568.3	2566.6	2561.6	2553.1	2551.4	2541.2
10°	2712.3	2710.6	2702.2	2697.1	2693.7	2686.9	2676.8	2668.3	2659.8	2659.8	2653.0
12.5°	2837.7	2830.9	2836.0	2824.2	2820.8	2814.0	2808.9	2807.2	2797.0	2788.6	2786.9
15°	2985.1	2976.6	2976.6	2973.2	2969.8	2963.1	2961.4	2963.1	2952.9	2956.3	2946.1
17.5°	3168.1	3171.5	3169.8	3169.8	3161.3	3161.3	3147.7	3164.7	3152.8	3161.3	3157.9
20°	3396.8	3398.5	3395.1	3400.2	3403.5	3401.9	3400.2	3398.5	3403.5	3410.3	3405.2
22.5°	3640.7	3640.7	3639.0	3657.7	3637.3	3652.6	3657.7	3647.5	3674.6	3671.2	3676.3
25°	3905.0	3905.0	3918.6	3933.8	3937.2	3925.3	3932.1	3923.7	3940.6	3954.1	3957.5
27.5°	4150.7	4172.7	4182.9	4172.7	4181.2	4199.8	4198.1	4198.1	4210.0	4206.6	4238.8
30°	4403.1	4416.7	4430.2	4423.4	4426.8	4450.5	4452.2	4453.9	4469.2	4491.2	4514.9
32.5°	4691.1	4704.7	4697.9	4719.9	4718.2	4747.0	4752.1	4757.2	4804.6	4796.1	4845.3
35°	5045.2	5058.7	5052.0	5075.7	5072.3	5082.5	5101.1	5121.4	5129.9	5179.0	5218.0
37.5°	5211.2	5211.2	5226.5	5253.6	5263.7	5280.7	5309.5	5334.9	5377.2	5429.8	5490.7
40°	5411.1	5416.2	5436.5	5465.3	5484.0	5522.9	5575.5	5611.0	5675.4	5733.0	5804.2
42.5°	5653.4	5675.4	5699.1	5738.1	5778.7	5839.7	5914.3	5960.0	6044.7	6119.3	6207.4
45°	5936.3	5958.3	6014.2	6085.4	6144.7	6212.5	6273.4	6381.9	6458.1	6536.0	6612.3
47.5°	6278.5	6342.9	6388.6	6473.4	6546.2	6636.0	6712.2	6813.9	6896.9	6991.8	7056.1
50°	6717.3	6796.9	6856.2	6966.3	7037.5	7137.5	7234.0	7310.3	7395.0	7488.1	7540.7
52.5°	7347.5	7428.9	7503.4	7640.6	7728.7	7796.5	7925.2	8020.1	8098.0	8165.8	8223.4
55°	8713.0	8689.3	8896.0	9162.0	9192.5	9438.1	9483.9	9563.5	9707.5	9727.8	9888.8
57.5°	12614.7	12492.7	12792.5	13182.2	13114.4	12990.8	13507.5	13539.7	13466.8	13661.6	13441.4
60°	18013.9	17800.4	17881.8	17988.5	17834.3	17761.5	17786.9	17859.7	17788.6	17710.7	17497.2
62.5°	21619.1	21290.4	21054.9	20856.7	20606.0	20424.7	20221.4	19970.7	19902.9	19618.3	19379.4
65°	22388.2	21876.6	21503.9	21129.5	20783.8	20463.7	20157.0	19941.9	19657.2	19320.1	19071.1
67.5°	21542.8	20909.2	20363.7	19819.9	19428.5	18957.6	18727.1	18376.5	18025.8	17639.5	17410.8
70°	19086.3	18425.6	17739.5	17207.5	16675.5	16092.7	15979.2	15564.2	15362.6	14835.7	14744.2
72.5°	13173.7	12733.2	12426.6	11769.3	11445.7	11147.5	11052.6	10668.1	10708.7	10131.0	10341.1
75°	4684.3	4621.6	4531.9	4160.8	4094.8	3979.6	3949.1	3922.0	4196.4	3815.2	4091.4
77.5°	804.7	799.6	753.9	731.9	774.2	747.1	753.9	740.3	820.0	831.8	813.2
80°	499.8	486.2	471.0	460.8	462.5	452.3	454.0	457.4	462.5	460.8	465.9
82.5°	342.2	330.4	323.6	316.8	327.0	330.4	338.8	347.3	360.9	369.3	379.5
85°	186.4	171.1	171.1	169.4	183.0	193.1	206.7	223.6	247.3	267.7	289.7
87.5°	94.9	91.5	93.2	96.6	108.4	116.9	133.8	149.1	169.4	191.4	211.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159386

CATALOG NUMBER: VST-F10-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2426.0	2426.0	2424.3	2424.3	2422.6	2420.9	2419.2	2414.2	2395.5	2378.6	2366.7
5°	2463.3	2458.2	2456.5	2451.4	2449.7	2446.4	2441.3	2436.2	2402.3	2371.8	2349.8
7.5°	2539.5	2532.8	2529.4	2524.3	2519.2	2512.4	2505.6	2500.6	2459.9	2424.3	2397.2
10°	2639.5	2636.1	2634.4	2627.6	2627.6	2617.5	2615.8	2603.9	2559.9	2527.7	2504.0
12.5°	2778.4	2771.6	2769.9	2761.5	2764.9	2761.5	2758.1	2751.3	2719.1	2681.8	2649.7
15°	2951.2	2951.2	2942.7	2936.0	2937.7	2934.3	2941.0	2932.6	2912.2	2878.4	2825.8
17.5°	3159.6	3156.2	3159.6	3154.5	3157.9	3161.3	3152.8	3154.5	3144.3	3102.0	3024.1
20°	3401.9	3396.8	3417.1	3408.6	3427.3	3410.3	3413.7	3418.8	3418.8	3362.9	3257.9
22.5°	3679.7	3676.3	3676.3	3693.2	3700.0	3701.7	3708.5	3713.6	3727.1	3656.0	3488.3
25°	3957.5	3969.4	3971.1	3993.1	4003.3	4003.3	4008.4	4027.0	4067.7	3969.4	3752.5
27.5°	4240.5	4269.3	4276.0	4291.3	4306.5	4321.8	4333.6	4347.2	4413.3	4306.5	4023.6
30°	4523.4	4555.6	4579.3	4596.2	4614.9	4652.1	4658.9	4686.0	4796.1	4665.7	4281.1
32.5°	4855.4	4901.2	4931.7	4953.7	4982.5	5018.1	5038.4	5072.3	5179.0	4965.6	4469.2
35°	5251.9	5279.0	5323.0	5360.3	5377.2	5438.2	5470.4	5478.9	5560.2	5224.8	4608.1
37.5°	5526.3	5572.1	5648.3	5700.8	5731.3	5765.2	5819.4	5855.0	5932.9	5460.2	4677.6
40°	5875.3	5944.8	6005.8	6083.7	6132.8	6158.2	6212.5	6241.3	6251.4	5661.9	4655.5
42.5°	6300.5	6363.2	6444.6	6507.2	6544.5	6573.3	6617.4	6629.2	6497.1	5756.7	4536.9
45°	6700.4	6796.9	6866.4	6912.1	6939.2	6954.5	6981.6	6983.3	6700.4	5709.3	4333.6
47.5°	7130.7	7200.1	7264.5	7296.7	7293.3	7296.7	7286.5	7279.8	6802.0	5545.0	4072.7
50°	7606.7	7652.5	7679.6	7694.8	7703.3	7671.1	7625.4	7594.9	6810.5	5311.2	3808.5
52.5°	8245.4	8303.0	8298.0	8296.3	8228.5	8198.0	8076.0	8013.3	6761.4	5036.7	3510.3
55°	9863.3	9807.4	9697.3	9751.5	9475.4	9331.4	9141.6	8965.4	6825.7	4775.8	3164.7
57.5°	13529.5	13551.5	13238.1	13070.4	12604.5	12021.7	11552.4	11096.7	7405.1	4616.6	2714.0
60°	17354.9	17066.9	16668.8	16062.2	15462.5	14596.8	13761.6	12972.1	7982.8	4450.5	2180.4
62.5°	19025.3	18615.3	18013.9	17229.5	16287.6	15228.7	14188.5	13226.2	7703.3	3913.5	1585.7
65°	18686.5	18059.7	17395.5	16477.3	15332.1	14171.6	12956.9	11974.3	6444.6	2919.0	977.5
67.5°	16914.4	16382.4	15681.1	14591.7	13366.9	12158.9	11045.9	9944.7	4787.7	1819.5	547.2
70°	14276.6	13756.5	13045.0	11930.2	10707.0	9551.6	8372.5	7474.6	3051.2	877.6	394.7
72.5°	9904.0	9482.2	8979.0	8184.4	7112.0	6061.7	5263.7	4574.2	1690.8	465.9	360.9
75°	4021.9	4023.6	3932.1	3596.7	3039.3	2620.9	2234.6	1895.8	706.5	396.4	355.8
77.5°	911.5	926.7	1013.1	960.6	865.7	809.8	725.1	640.4	430.3	408.3	359.2
80°	460.8	462.5	457.4	459.1	454.0	455.7	449.0	443.9	403.2	420.1	359.2
82.5°	384.6	393.0	391.3	391.3	393.0	393.0	393.0	391.3	418.5	442.2	347.3
85°	304.9	321.9	335.4	349.0	364.2	374.4	379.5	384.6	406.6	435.4	315.1
87.5°	230.4	250.7	267.7	281.2	304.9	304.9	321.9	333.7	333.7	340.5	166.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159386

CATALOG NUMBER: VST-F10-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	2432.8	2432.8	2432.8	2432.8	2432.8
2.5°	2349.8	2343.0	2336.2	2332.8	2326.1
5°	2332.8	2319.3	2310.8	2310.8	2304.0
7.5°	2382.0	2376.9	2365.0	2358.3	2365.0
10°	2487.0	2478.5	2465.0	2454.8	2459.9
12.5°	2627.6	2593.7	2566.6	2554.8	2546.3
15°	2773.3	2705.6	2651.3	2620.9	2612.4
17.5°	2929.2	2810.6	2729.3	2683.5	2675.1
20°	3088.4	2941.0	2825.8	2766.5	2764.9
22.5°	3279.9	3083.4	2936.0	2858.0	2853.0
25°	3481.5	3210.4	3015.6	2915.6	2905.5
27.5°	3656.0	3312.1	3064.7	2946.1	2936.0
30°	3801.7	3388.3	3105.4	2968.2	2954.6
32.5°	3906.7	3432.4	3122.3	2974.9	2959.7
35°	3940.6	3415.4	3074.9	2913.9	2897.0
37.5°	3894.9	3305.3	2942.7	2764.9	2744.5
40°	3757.6	3112.2	2727.6	2544.6	2519.2
42.5°	3547.6	2875.0	2468.4	2293.9	2261.7
45°	3288.3	2607.3	2210.9	2016.0	2000.8
47.5°	3017.3	2326.1	1921.2	1745.0	1726.3
50°	2724.2	2000.8	1638.2	1446.8	1446.8
52.5°	2375.2	1684.0	1309.6	1165.6	1153.7
55°	1973.7	1326.5	1043.6	933.5	918.2
57.5°	1541.7	1019.9	833.5	769.1	752.2
60°	1133.4	765.8	670.9	635.3	628.5
62.5°	769.1	582.8	540.4	525.2	523.5
65°	520.1	454.0	442.2	437.1	438.8
67.5°	399.8	377.8	372.7	371.0	371.0
70°	347.3	333.7	328.7	330.4	328.7
72.5°	327.0	308.3	310.0	313.4	311.7
75°	320.2	296.5	303.3	304.9	298.2
77.5°	315.1	282.9	299.9	304.9	286.3
80°	304.9	271.1	311.7	313.4	281.2
82.5°	279.5	240.6	311.7	288.0	254.1
85°	237.2	183.0	352.4	250.7	188.1
87.5°	150.8	108.4	238.9	171.1	113.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)