

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: P159385

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159385
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (70) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25481.6 lumens
Efficiency: N/A
Efficacy: 98.5 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



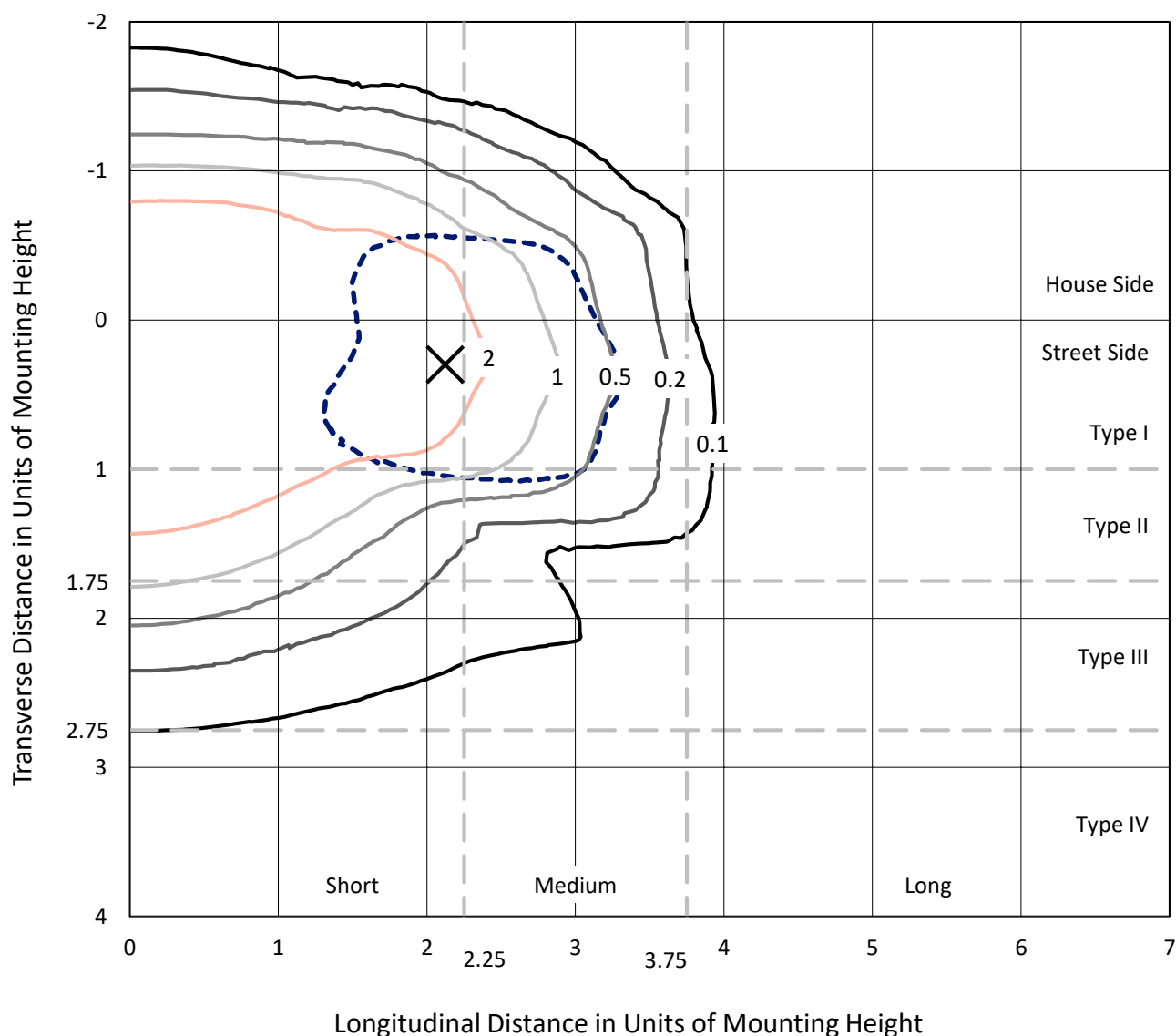
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

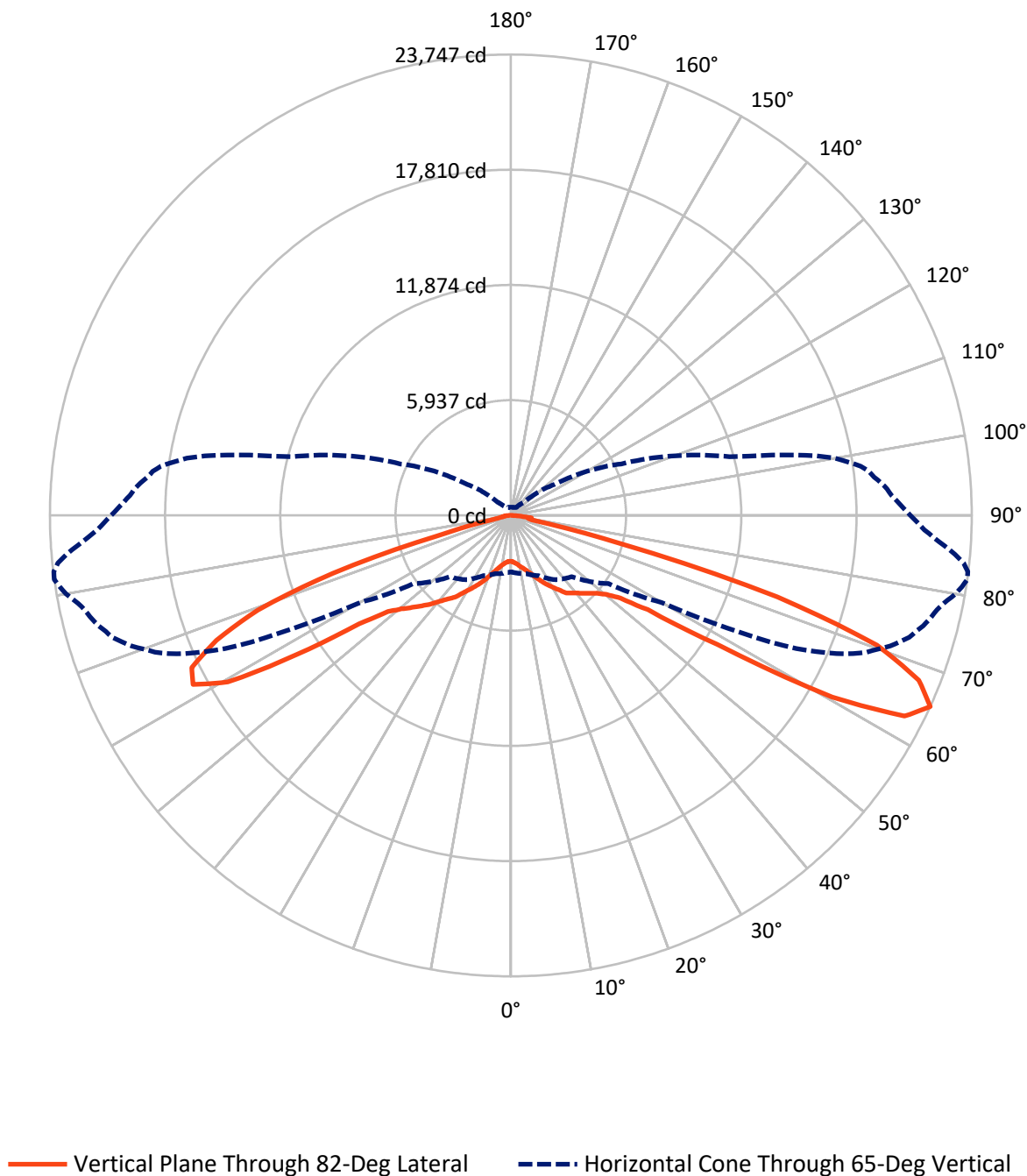


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9487.6	0.0	9487.6
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	15994.0	0.0	15994.0
	% Fixture	62.8	0.0	62.8
Total	Lumens	25481.6	0.0	25481.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.0	0.9
10°-20°	843.4	3.3
20°-30°	1671.1	6.6
30°-40°	2864.6	11.2
40°-50°	4303.4	16.9
50°-60°	5978.8	23.5
60°-70°	6820.9	26.8
70°-80°	2349.7	9.2
80°-90°	409.5	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°	25481.6	100.0
0°-180°	25481.6	100.0

Coefficient of Utilization



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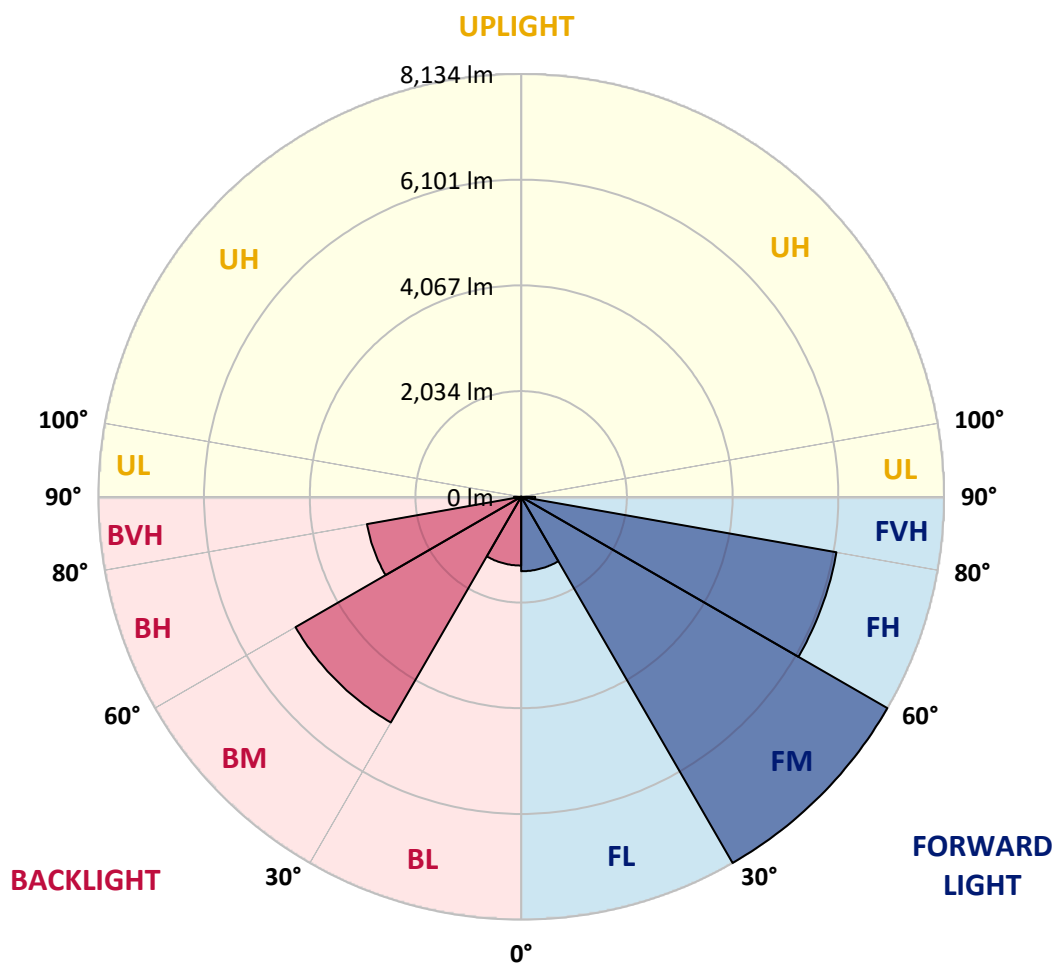
CATALOG NUMBER: VST-F10-LED-E-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1431.5	5.6			
FM	(30°-60°)	8134.2	31.9			
FH	(60°-80°)	6158.6	24.2			G3/7500
FVH	(80°-90°)	269.6	1.1			G3/500
BL	(0°-30°)	1323.0	5.2	B3/2500		
BM	(30°-60°)	5012.6	19.7	B4/8500		
BH	(60°-80°)	3012.0	11.8	B4/5000		G4/5000
BVH	(80°-90°)	139.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9
2.5°	2499.7	2501.3	2499.7	2494.7	2493.1	2478.2	2461.7	2453.5	2451.8	2445.2	2446.9
5°	2654.9	2649.9	2643.3	2635.1	2626.8	2602.1	2574.0	2559.1	2554.2	2549.2	2542.6
7.5°	2793.6	2796.9	2793.6	2782.0	2760.6	2729.2	2692.9	2669.7	2668.1	2663.1	2658.2
10°	2971.9	2980.1	2960.3	2940.5	2910.8	2862.9	2821.6	2791.9	2787.0	2780.4	2777.1
12.5°	3165.1	3166.7	3160.1	3115.5	3066.0	3000.0	2940.5	2910.8	2904.2	2895.9	2892.6
15°	3371.4	3373.1	3336.8	3293.8	3217.9	3138.6	3056.1	3023.1	3014.8	3016.5	3003.3
17.5°	3534.9	3538.2	3503.5	3449.0	3358.2	3264.1	3175.0	3148.6	3143.6	3145.2	3138.6
20°	3605.9	3610.8	3589.4	3548.1	3462.3	3379.7	3315.3	3298.8	3297.1	3293.8	3307.1
22.5°	3602.6	3604.2	3596.0	3579.5	3528.3	3480.4	3472.2	3482.1	3480.4	3483.7	3495.3
25°	3572.9	3577.8	3576.2	3582.8	3574.5	3592.7	3630.7	3665.3	3670.3	3676.9	3698.4
27.5°	3648.8	3658.7	3647.2	3653.8	3667.0	3728.1	3805.7	3858.5	3868.4	3886.6	3904.7
30°	3946.0	3932.8	3917.9	3901.4	3909.7	3947.7	4035.2	4081.4	4086.3	4099.6	4124.3
32.5°	4386.8	4372.0	4358.8	4332.4	4325.8	4309.2	4339.0	4350.5	4348.9	4362.1	4368.7
35°	4883.8	4885.5	4882.2	4902.0	4918.5	4834.3	4730.3	4702.2	4713.7	4698.9	4702.2
37.5°	5308.1	5313.1	5400.6	5509.6	5540.9	5488.1	5260.2	5148.0	5110.0	5105.0	5067.1
40°	5778.7	5778.7	5910.8	6044.5	6132.0	6198.0	5927.3	5729.1	5648.2	5625.1	5531.0
42.5°	6295.5	6269.0	6389.6	6536.5	6698.3	6848.6	6708.2	6485.3	6369.8	6328.5	6163.4
45°	6719.8	6703.3	6762.7	6899.7	7162.3	7456.1	7476.0	7362.0	7292.7	7206.8	7054.9
47.5°	6980.6	6972.4	7007.1	7155.7	7484.2	7959.7	8225.5	8283.3	8242.0	8176.0	8029.1
50°	7083.0	7071.4	7096.2	7261.3	7629.5	8256.9	8844.7	9117.1	9136.9	9151.8	9105.5
52.5°	7046.7	7031.8	7083.0	7221.7	7604.7	8360.9	9328.4	9851.8	9939.3	10013.6	10165.5
55°	6698.3	6675.2	6813.9	7074.7	7497.4	8322.9	9681.8	10558.5	10743.4	10941.5	11278.3
57.5°	6165.0	6145.2	6345.0	6703.3	7307.5	8218.9	9919.5	11451.7	11867.7	12224.4	13180.3
60°	5651.5	5635.0	5752.3	6099.0	6691.7	7712.1	9625.6	11752.2	12450.6	13220.0	14965.1
62.5°	4733.6	4689.0	4845.8	5138.1	5512.9	6379.7	8342.8	11083.5	12160.0	13291.0	15656.9
65°	2909.1	2973.5	3108.9	3432.5	4046.7	4459.5	6127.0	8966.9	10386.8	11805.0	14874.3
67.5°	1847.5	1865.7	1966.4	2190.9	2666.4	3080.9	3713.2	5626.8	6721.4	8116.6	11677.9
70°	1583.4	1594.9	1680.8	1915.2	2243.8	2754.0	2810.1	2938.9	3331.8	4220.1	6865.1
72.5°	1248.2	1268.0	1335.7	1538.8	1935.0	2483.2	3468.9	2323.0	2243.8	2318.1	3350.0
75°	743.0	766.1	822.2	932.8	1243.2	1898.7	3634.0	2702.8	2519.5	2375.9	2311.5
77.5°	392.9	376.4	414.4	478.8	639.0	1012.1	2730.8	3312.0	3183.2	3011.5	2646.6
80°	194.8	201.4	213.0	226.2	285.6	411.1	1365.4	3425.9	3797.4	3962.5	3638.9
82.5°	77.6	87.5	123.8	132.1	156.8	175.0	439.2	1898.7	2719.3	3688.4	4816.1
85°	39.6	38.0	66.0	79.3	92.5	82.6	155.2	708.3	1274.6	1986.2	3217.9
87.5°	5.0	6.6	14.9	19.8	28.1	26.4	44.6	153.5	244.4	346.7	487.1
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9
2.5°	2438.6	2436.9	2436.9	2430.3	2430.3	2432.0	2427.0	2423.7	2423.7	2425.4	2418.8
5°	2537.7	2532.7	2532.7	2526.1	2517.9	2517.9	2511.2	2509.6	2506.3	2499.7	2494.7
7.5°	2653.2	2648.3	2640.0	2635.1	2631.8	2626.8	2618.6	2615.3	2608.7	2602.1	2595.5
10°	2772.1	2765.5	2762.2	2754.0	2750.6	2740.7	2735.8	2737.4	2724.2	2719.3	2720.9
12.5°	2891.0	2884.4	2872.8	2869.5	2867.9	2858.0	2853.0	2849.7	2839.8	2838.2	2833.2
15°	2996.7	3000.0	2995.0	2986.7	2980.1	2978.5	2973.5	2970.2	2963.6	2957.0	2950.4
17.5°	3133.7	3138.6	3132.0	3120.5	3120.5	3118.8	3120.5	3118.8	3107.3	3112.2	3108.9
20°	3308.7	3312.0	3295.5	3300.4	3303.8	3302.1	3307.1	3312.0	3308.7	3308.7	3313.7
22.5°	3510.1	3515.1	3505.2	3511.8	3521.7	3513.4	3528.3	3526.6	3529.9	3534.9	3536.5
25°	3716.5	3726.4	3718.2	3736.3	3729.7	3736.3	3754.5	3749.5	3757.8	3771.0	3776.0
27.5°	3922.9	3929.5	3931.1	3942.7	3954.3	3964.2	3987.3	3987.3	3993.9	4017.0	4017.0
30°	4139.2	4145.8	4152.4	4168.9	4175.5	4193.7	4216.8	4223.4	4220.1	4253.1	4263.0
32.5°	4388.5	4395.1	4406.7	4426.5	4434.7	4452.9	4452.9	4471.0	4484.3	4512.3	4514.0
35°	4720.4	4725.3	4720.4	4718.7	4730.3	4755.0	4756.7	4783.1	4794.6	4822.7	4831.0
37.5°	5052.2	5050.6	5029.1	5006.0	5007.6	4997.7	4991.1	5002.7	5007.6	5009.3	5027.4
40°	5499.6	5456.7	5423.7	5365.9	5339.5	5298.2	5273.5	5271.8	5245.4	5242.1	5247.0
42.5°	6085.8	6036.2	5958.6	5861.2	5786.9	5711.0	5654.8	5621.8	5564.0	5534.3	5509.6
45°	6904.7	6782.5	6690.1	6574.5	6430.8	6298.8	6160.1	6097.3	5986.7	5919.0	5843.1
47.5°	7905.2	7784.7	7642.7	7523.8	7335.6	7152.3	6962.5	6795.7	6602.5	6449.0	6323.5
50°	8991.6	8920.6	8818.3	8707.6	8464.9	8344.4	8105.0	7878.8	7670.8	7396.7	7157.3
52.5°	10106.1	10147.4	10124.2	10084.6	9931.1	9884.8	9678.5	9402.7	9193.0	9004.8	8588.8
55°	11479.7	11529.3	11628.3	11686.1	11668.0	11785.2	11734.0	11519.4	11435.2	11347.7	11052.1
57.5°	13581.5	13934.9	14313.0	14644.8	14722.4	15138.5	15049.3	15264.0	15415.9	15306.9	15211.1
60°	15822.0	16535.3	17177.5	17849.5	18396.0	18805.5	19347.0	19711.9	19941.4	20354.1	20387.2
62.5°	16725.1	17694.3	18509.9	19289.2	19938.1	20506.0	20994.7	21498.3	21911.1	22284.2	22553.3
65°	16229.8	17241.9	18230.9	19021.7	19645.8	20134.6	20666.2	21065.7	21471.9	21711.3	21993.6
67.5°	13492.4	14833.0	16049.9	16941.4	17795.0	18292.0	18921.0	19314.0	19744.9	19997.5	20179.1
70°	8796.8	10542.0	12204.6	13556.8	14709.2	15288.7	16048.2	16584.8	17103.2	17116.4	17418.6
72.5°	4746.8	6206.3	7598.1	8980.1	10294.3	11065.3	11814.9	12467.1	12982.2	12762.6	13063.1
75°	2643.3	3326.9	4088.0	4918.5	5719.2	6160.1	6719.8	6723.1	6988.9	6571.2	6676.8
77.5°	2542.6	2511.2	2522.8	2545.9	2585.5	2501.3	2499.7	2448.5	2369.3	2225.6	2250.4
80°	3340.1	2940.5	2653.2	2202.5	1773.2	1446.3	1355.5	1377.0	1441.4	1570.1	1733.6
82.5°	4829.3	4492.5	4010.4	3300.4	2590.5	1997.8	1641.1	1456.2	1448.0	1576.8	1824.4
85°	3516.7	3719.8	3688.4	3079.2	2539.3	2062.2	1500.8	1268.0	1050.1	998.9	1086.4
87.5°	518.4	429.3	483.8	404.5	293.9	227.8	199.8	160.2	153.5	156.8	171.7
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9
2.5°	2420.4	2413.8	2407.2	2412.2	2407.2	2405.6	2400.6	2397.3	2395.7	2395.7	2395.7
5°	2494.7	2486.5	2481.5	2479.9	2474.9	2470.0	2468.3	2460.1	2458.4	2458.4	2453.5
7.5°	2595.5	2588.8	2580.6	2575.6	2572.3	2564.1	2555.8	2554.2	2552.5	2545.9	2541.0
10°	2712.7	2702.8	2692.9	2692.9	2686.3	2684.6	2676.4	2664.8	2663.1	2653.2	2649.9
12.5°	2823.3	2820.0	2808.4	2805.1	2800.2	2795.2	2790.3	2785.3	2780.4	2772.1	2775.4
15°	2955.4	2947.1	2937.2	2938.9	2937.2	2930.6	2924.0	2919.1	2915.8	2912.5	2912.5
17.5°	3113.9	3110.6	3108.9	3100.7	3094.1	3099.0	3099.0	3099.0	3090.8	3092.4	3094.1
20°	3315.3	3318.6	3315.3	3308.7	3307.1	3312.0	3300.4	3318.6	3308.7	3302.1	3305.4
22.5°	3538.2	3549.8	3536.5	3538.2	3546.5	3549.8	3538.2	3553.1	3548.1	3538.2	3546.5
25°	3780.9	3789.2	3782.6	3780.9	3785.9	3797.4	3795.8	3794.1	3805.7	3795.8	3800.7
27.5°	4030.2	4035.2	4038.5	4043.4	4046.7	4045.1	4051.7	4051.7	4058.3	4046.7	4051.7
30°	4277.9	4277.9	4284.5	4291.1	4291.1	4291.1	4304.3	4305.9	4296.0	4299.3	4287.8
32.5°	4542.0	4543.7	4550.3	4550.3	4563.5	4565.2	4580.0	4560.2	4580.0	4563.5	4566.8
35°	4852.4	4873.9	4877.2	4893.7	4906.9	4911.9	4911.9	4913.5	4931.7	4918.5	4923.4
37.5°	5034.1	5039.0	5052.2	5060.5	5060.5	5067.1	5072.0	5067.1	5072.0	5070.4	5075.3
40°	5248.7	5243.7	5258.6	5261.9	5255.3	5263.5	5261.9	5256.9	5270.2	5260.2	5266.8
42.5°	5509.6	5481.5	5479.8	5493.0	5479.8	5486.4	5484.8	5473.2	5489.7	5494.7	5489.7
45°	5788.6	5773.7	5744.0	5744.0	5730.8	5725.8	5727.5	5725.8	5727.5	5747.3	5753.9
47.5°	6242.6	6151.8	6100.6	6052.7	6013.1	6011.5	5993.3	6003.2	6016.4	6049.4	6079.2
50°	7003.8	6794.1	6665.3	6546.4	6460.6	6430.8	6396.2	6392.9	6404.4	6442.4	6493.6
52.5°	8360.9	8070.3	7796.3	7542.0	7320.8	7150.7	7066.5	7021.9	7005.4	7043.4	7092.9
55°	10844.1	10295.9	9909.6	9652.0	9102.2	8869.4	8570.6	8433.6	8299.8	8313.0	8397.2
57.5°	15087.3	14791.8	14468.1	14017.4	13680.6	13274.4	12528.2	12112.1	12130.3	12227.7	11923.9
60°	20648.0	20349.2	20215.5	19806.0	19571.5	19408.1	19011.8	18321.7	18077.3	18031.1	17473.1
62.5°	22759.7	22830.7	22936.4	23052.0	23045.4	23116.3	22769.6	22545.1	22262.8	21896.2	21344.8
65°	22208.3	22388.2	22602.9	22913.3	23266.6	23527.5	23747.0	23720.6	23456.5	22967.8	22384.9
67.5°	20340.9	20519.2	20676.1	21092.2	21671.7	22201.7	22670.6	22989.2	22812.6	22408.0	21727.8
70°	17534.1	17662.9	17762.0	18123.6	18759.2	19406.4	20019.0	20553.9	20499.4	20009.1	19465.9
72.5°	12704.8	13016.9	13185.3	13160.5	13553.5	14278.3	14364.1	14821.5	14948.6	14420.3	13555.1
75°	6189.8	6194.7	5999.9	5935.5	5955.3	6080.8	5841.4	5856.3	5773.7	5398.9	5090.2
77.5°	2162.9	2103.4	1961.4	1793.0	1552.0	1325.8	1096.3	997.2	964.2	866.8	799.1
80°	1864.0	1951.5	1923.5	1784.8	1530.5	1220.1	911.4	675.3	576.2	541.5	508.5
82.5°	2116.6	2453.5	2668.1	2656.5	2308.2	1733.6	1081.4	620.8	442.5	388.0	356.6
85°	1180.5	1269.7	1294.4	1178.8	979.1	668.7	373.1	262.5	222.9	203.1	183.3
87.5°	188.2	171.7	168.4	146.9	138.7	127.1	112.3	105.7	97.4	92.5	92.5
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: P159385

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

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9
2.5°	2394.0	2392.4	2387.4	2382.5	2379.2	2377.5	2375.9	2372.6	2370.9	2369.3	2366.0
5°	2450.2	2446.9	2438.6	2430.3	2427.0	2422.1	2417.1	2413.8	2410.5	2408.9	2402.3
7.5°	2537.7	2534.4	2524.5	2517.9	2516.2	2503.0	2501.3	2496.4	2488.1	2486.5	2476.6
10°	2643.3	2641.7	2633.4	2628.5	2625.2	2618.6	2608.7	2600.4	2592.1	2592.1	2585.5
12.5°	2765.5	2758.9	2763.9	2752.3	2749.0	2742.4	2737.4	2735.8	2725.9	2717.6	2716.0
15°	2909.1	2900.9	2900.9	2897.6	2894.3	2887.7	2886.0	2887.7	2877.8	2881.1	2871.2
17.5°	3087.5	3090.8	3089.1	3089.1	3080.9	3080.9	3067.7	3084.2	3072.6	3080.9	3077.6
20°	3310.4	3312.0	3308.7	3313.7	3317.0	3315.3	3313.7	3312.0	3317.0	3323.6	3318.6
22.5°	3548.1	3548.1	3546.5	3564.6	3544.8	3559.7	3564.6	3554.7	3581.1	3577.8	3582.8
25°	3805.7	3805.7	3818.9	3833.7	3837.0	3825.5	3832.1	3823.8	3840.3	3853.6	3856.9
27.5°	4045.1	4066.5	4076.4	4066.5	4074.8	4093.0	4091.3	4091.3	4102.9	4099.6	4130.9
30°	4291.1	4304.3	4317.5	4310.9	4314.2	4337.3	4339.0	4340.6	4355.5	4376.9	4400.0
32.5°	4571.8	4585.0	4578.4	4599.8	4598.2	4626.2	4631.2	4636.1	4682.4	4674.1	4722.0
35°	4916.8	4930.0	4923.4	4946.5	4943.2	4953.1	4971.3	4991.1	4999.4	5047.3	5085.2
37.5°	5078.6	5078.6	5093.5	5119.9	5129.8	5146.3	5174.4	5199.2	5240.4	5291.6	5351.1
40°	5273.5	5278.4	5298.2	5326.3	5344.4	5382.4	5433.6	5468.3	5531.0	5587.2	5656.5
42.5°	5509.6	5531.0	5554.1	5592.1	5631.7	5691.2	5763.8	5808.4	5890.9	5963.6	6049.4
45°	5785.3	5806.7	5861.2	5930.6	5988.4	6054.4	6113.8	6219.5	6293.8	6369.8	6444.0
47.5°	6118.8	6181.5	6226.1	6308.7	6379.7	6467.2	6541.5	6640.5	6721.4	6813.9	6876.6
50°	6546.4	6624.0	6681.8	6789.1	6858.5	6955.9	7050.0	7124.3	7206.8	7297.6	7348.8
52.5°	7160.6	7239.9	7312.5	7446.2	7532.1	7598.1	7723.6	7816.1	7892.0	7958.1	8014.2
55°	8491.3	8468.2	8669.7	8928.9	8958.6	9198.0	9242.6	9320.2	9460.5	9480.3	9637.2
57.5°	12293.7	12174.8	12467.1	12846.8	12780.8	12660.3	13163.8	13195.2	13124.2	13314.1	13099.4
60°	17555.6	17347.6	17426.8	17530.8	17380.6	17309.6	17334.4	17405.4	17336.0	17260.1	17052.0
62.5°	21069.0	20748.7	20519.2	20326.1	20081.7	19905.1	19706.9	19462.6	19396.5	19119.2	18886.4
65°	21818.6	21320.0	20956.8	20591.9	20255.1	19943.0	19644.2	19434.5	19157.1	18828.6	18585.9
67.5°	20994.7	20377.3	19845.6	19315.6	18934.2	18475.2	18250.7	17908.9	17567.2	17190.7	16967.8
70°	18600.7	17956.8	17288.1	16769.7	16251.3	15683.3	15572.7	15168.2	14971.7	14458.2	14369.1
72.5°	12838.6	12409.3	12110.5	11469.8	11154.5	10863.9	10771.4	10396.7	10436.3	9873.3	10078.0
75°	4565.2	4504.1	4416.6	4055.0	3990.6	3878.3	3848.6	3822.2	4089.7	3718.2	3987.3
77.5°	784.2	779.3	734.7	713.3	754.5	728.1	734.7	721.5	799.1	810.7	792.5
80°	487.1	473.9	459.0	449.1	450.7	440.8	442.5	445.8	450.7	449.1	454.0
82.5°	333.5	322.0	315.4	308.7	318.7	322.0	330.2	338.5	351.7	359.9	369.8
85°	181.6	166.8	166.8	165.1	178.3	188.2	201.4	217.9	241.1	260.9	282.3
87.5°	92.5	89.2	90.8	94.1	105.7	113.9	130.4	145.3	165.1	186.6	206.4
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: P159385

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

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9	2370.9
2.5°	2364.3	2364.3	2362.7	2362.7	2361.0	2359.4	2357.7	2352.7	2334.6	2318.1	2306.5
5°	2400.6	2395.7	2394.0	2389.1	2387.4	2384.1	2379.2	2374.2	2341.2	2311.5	2290.0
7.5°	2474.9	2468.3	2465.0	2460.1	2455.1	2448.5	2441.9	2436.9	2397.3	2362.7	2336.2
10°	2572.3	2569.0	2567.4	2560.8	2560.8	2550.9	2549.2	2537.7	2494.7	2463.4	2440.3
12.5°	2707.7	2701.1	2699.5	2691.2	2694.5	2691.2	2687.9	2681.3	2649.9	2613.6	2582.2
15°	2876.1	2876.1	2867.9	2861.3	2862.9	2859.6	2866.2	2858.0	2838.2	2805.1	2754.0
17.5°	3079.2	3075.9	3079.2	3074.3	3077.6	3080.9	3072.6	3074.3	3064.3	3023.1	2947.1
20°	3315.3	3310.4	3330.2	3321.9	3340.1	3323.6	3326.9	3331.8	3331.8	3277.3	3175.0
22.5°	3586.1	3582.8	3582.8	3599.3	3605.9	3607.5	3614.1	3619.1	3632.3	3563.0	3399.5
25°	3856.9	3868.4	3870.1	3891.5	3901.4	3901.4	3906.4	3924.5	3964.2	3868.4	3657.1
27.5°	4132.6	4160.6	4167.2	4182.1	4197.0	4211.8	4223.4	4236.6	4301.0	4197.0	3921.2
30°	4408.3	4439.7	4462.8	4479.3	4497.5	4533.8	4540.4	4566.8	4674.1	4547.0	4172.2
32.5°	4731.9	4776.5	4806.2	4827.7	4855.7	4890.4	4910.2	4943.2	5047.3	4839.2	4355.5
35°	5118.3	5144.7	5187.6	5223.9	5240.4	5299.9	5331.2	5339.5	5418.7	5091.8	4490.9
37.5°	5385.7	5430.3	5504.6	5555.8	5585.5	5618.5	5671.4	5706.0	5782.0	5321.3	4558.5
40°	5725.8	5793.5	5853.0	5928.9	5976.8	6001.6	6054.4	6082.5	6092.4	5517.8	4537.1
42.5°	6140.3	6201.3	6280.6	6341.7	6378.0	6406.1	6449.0	6460.6	6331.8	5610.3	4421.5
45°	6529.9	6624.0	6691.7	6736.3	6762.7	6777.6	6804.0	6805.6	6529.9	5564.0	4223.4
47.5°	6949.3	7017.0	7079.7	7111.1	7107.8	7111.1	7101.2	7094.6	6629.0	5403.9	3969.1
50°	7413.2	7457.8	7484.2	7499.1	7507.3	7476.0	7431.4	7401.7	6637.2	5176.0	3711.6
52.5°	8035.7	8091.8	8086.8	8085.2	8019.1	7989.4	7870.6	7809.5	6589.3	4908.6	3421.0
55°	9612.4	9557.9	9450.6	9503.4	9234.3	9094.0	8909.1	8737.4	6652.1	4654.3	3084.2
57.5°	13185.3	13206.7	12901.3	12737.8	12283.8	11715.8	11258.5	10814.4	7216.7	4499.1	2645.0
60°	16913.4	16632.7	16244.7	15653.6	15069.1	14225.4	13411.5	12642.1	7779.7	4337.3	2124.9
62.5°	18541.3	18141.7	17555.6	16791.2	15873.2	14841.3	13827.5	12889.7	7507.3	3813.9	1545.4
65°	18211.1	17600.2	16953.0	16058.1	14942.0	13811.0	12627.2	11669.6	6280.6	2844.8	952.7
67.5°	16484.1	15965.7	15282.1	14220.5	13026.8	11849.6	10764.8	9691.7	4665.9	1773.2	533.3
70°	13913.4	13406.5	12713.1	11626.7	10434.6	9308.6	8159.5	7284.4	2973.5	855.2	384.7
72.5°	9652.0	9240.9	8750.6	7976.2	6931.1	5907.5	5129.8	4457.8	1647.7	454.0	351.7
75°	3919.6	3921.2	3832.1	3505.2	2962.0	2554.2	2177.7	1847.5	688.5	386.3	346.7
77.5°	888.3	903.1	987.3	936.1	843.7	789.2	706.6	624.1	419.4	397.9	350.0
80°	449.1	450.7	445.8	447.4	442.5	444.1	437.5	432.6	392.9	409.5	350.0
82.5°	374.8	383.0	381.4	381.4	383.0	383.0	383.0	381.4	407.8	430.9	338.5
85°	297.2	313.7	326.9	340.1	355.0	364.9	369.8	374.8	396.3	424.3	307.1
87.5°	224.5	244.4	260.9	274.1	297.2	297.2	313.7	325.3	325.3	331.9	161.8
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: P159385

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

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	2370.9	2370.9	2370.9	2370.9	2370.9
2.5°	2290.0	2283.4	2276.8	2273.5	2266.9
5°	2273.5	2260.3	2252.0	2252.0	2245.4
7.5°	2321.4	2316.4	2304.9	2298.3	2304.9
10°	2423.7	2415.5	2402.3	2392.4	2397.3
12.5°	2560.8	2527.8	2501.3	2489.8	2481.5
15°	2702.8	2636.7	2583.9	2554.2	2545.9
17.5°	2854.7	2739.1	2659.8	2615.3	2607.0
20°	3009.9	2866.2	2754.0	2696.2	2694.5
22.5°	3196.4	3004.9	2861.3	2785.3	2780.4
25°	3392.9	3128.7	2938.9	2841.5	2831.6
27.5°	3563.0	3227.8	2986.7	2871.2	2861.3
30°	3705.0	3302.1	3026.4	2892.6	2879.4
32.5°	3807.3	3345.0	3042.9	2899.2	2884.4
35°	3840.3	3328.5	2996.7	2839.8	2823.3
37.5°	3795.8	3221.2	2867.9	2694.5	2674.7
40°	3662.0	3033.0	2658.2	2479.9	2455.1
42.5°	3457.3	2801.8	2405.6	2235.5	2204.2
45°	3204.7	2541.0	2154.6	1964.7	1949.9
47.5°	2940.5	2266.9	1872.3	1700.6	1682.4
50°	2654.9	1949.9	1596.6	1410.0	1410.0
52.5°	2314.8	1641.1	1276.3	1135.9	1124.4
55°	1923.5	1292.8	1017.0	909.7	894.9
57.5°	1502.5	993.9	812.3	749.6	733.1
60°	1104.6	746.3	653.8	619.1	612.5
62.5°	749.6	568.0	526.7	511.8	510.2
65°	506.9	442.5	430.9	426.0	427.6
67.5°	389.6	368.2	363.2	361.6	361.6
70°	338.5	325.3	320.3	322.0	320.3
72.5°	318.7	300.5	302.1	305.4	303.8
75°	312.0	288.9	295.5	297.2	290.6
77.5°	307.1	275.7	292.2	297.2	279.0
80°	297.2	264.2	303.8	305.4	274.1
82.5°	272.4	234.4	303.8	280.7	247.7
85°	231.1	178.3	343.4	244.4	183.3
87.5°	146.9	105.7	232.8	166.8	110.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)