

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: P159383

Luminaire Tested: **VST-F10-LED-E-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159383
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-T2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (70) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21506.2 lumens
Efficiency: N/A
Efficacy: 83.1 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

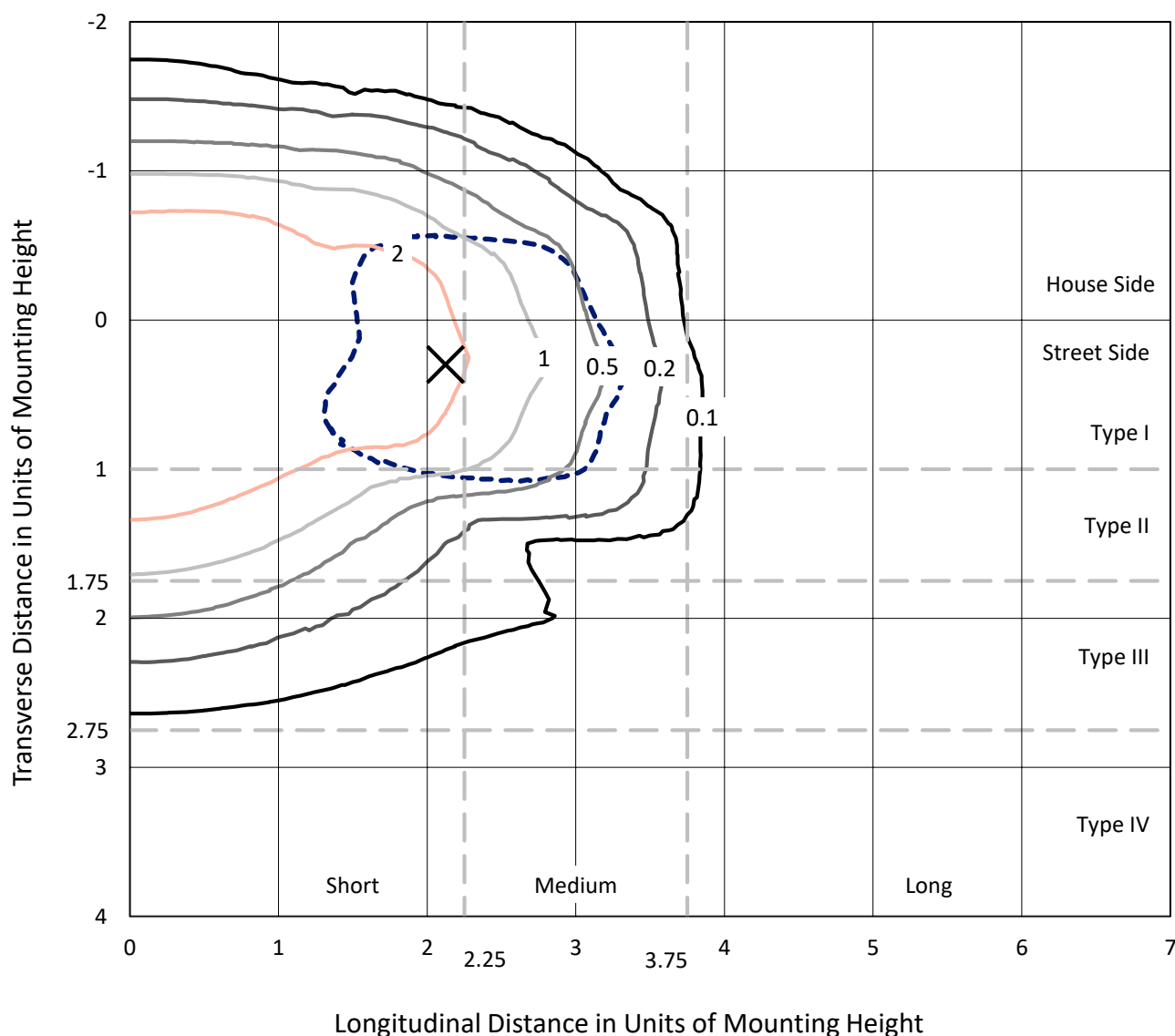


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

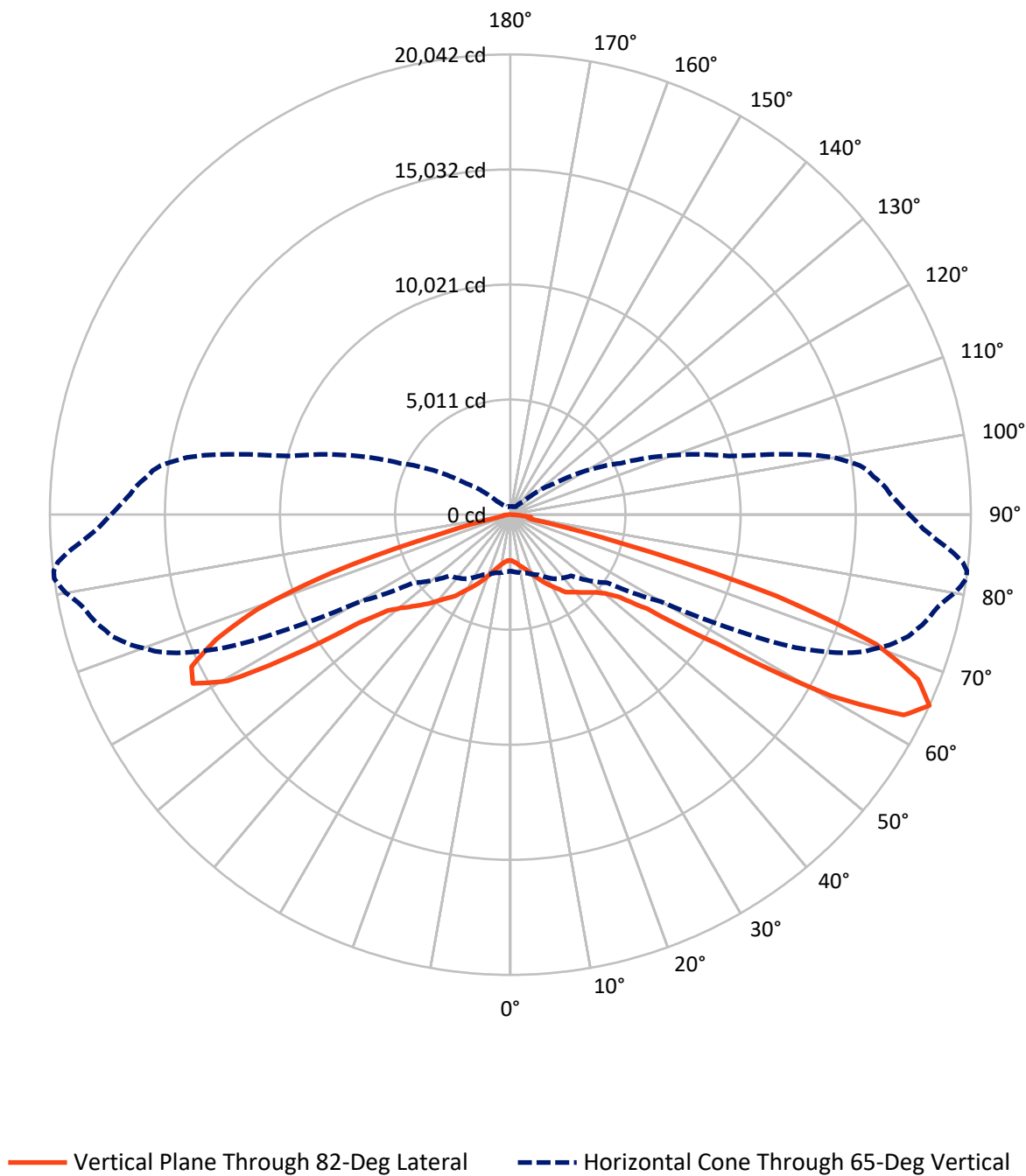


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8007.5	0.0	8007.5
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	13498.8	0.0	13498.8
	% Fixture	62.8	0.0	62.8
Total	Lumens	21506.2	0.0	21506.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	0.9
10°-20°	711.8	3.3
20°-30°	1410.4	6.6
30°-40°	2417.7	11.2
40°-50°	3632.0	16.9
50°-60°	5046.1	23.5
60°-70°	5756.8	26.8
70°-80°	1983.1	9.2
80°-90°	345.6	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°	21506.2	100.0
0°-180°	21506.2	100.0

Coefficient of Utilization



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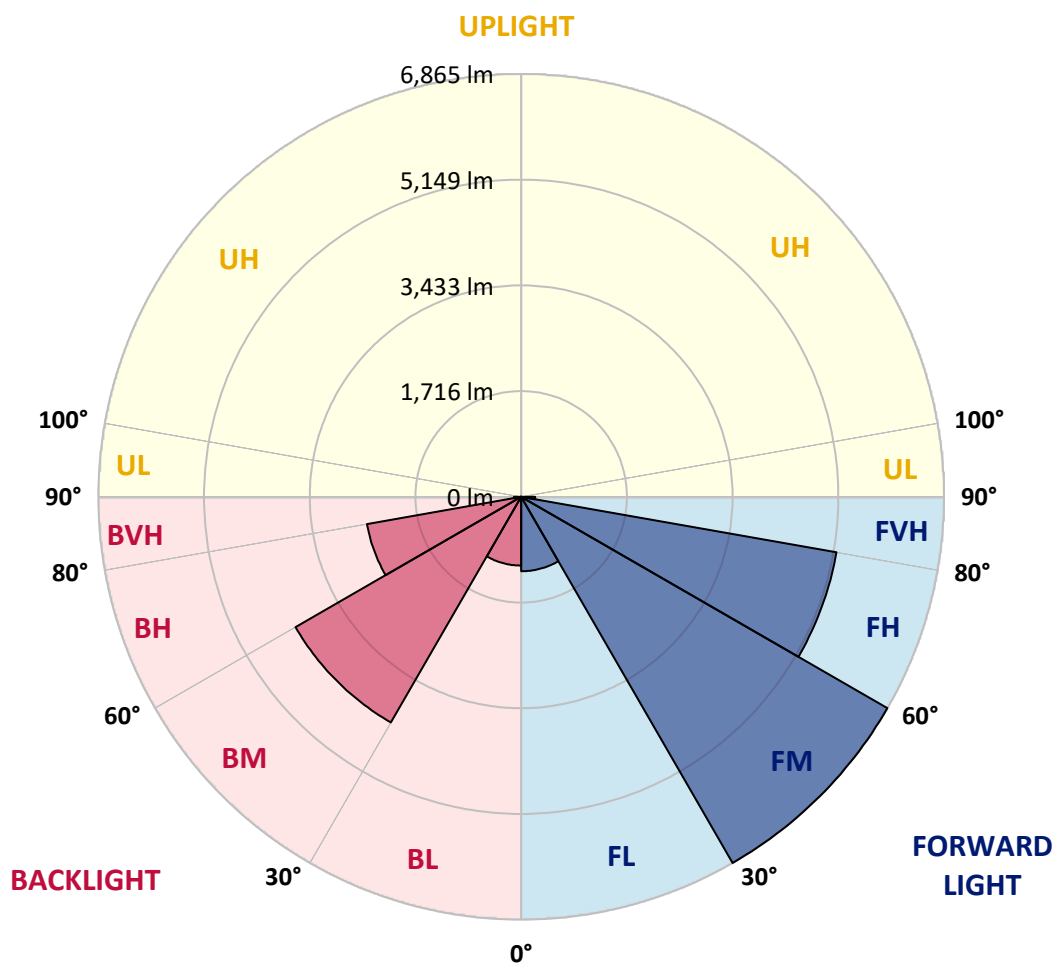
CATALOG NUMBER: VST-F10-LED-E-U-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1208.2	5.6			
FM	(30°-60°)	6865.2	31.9			
FH	(60°-80°)	5197.8	24.2			G3/7500
FVH	(80°-90°)	227.5	1.1			G3/500
BL	(0°-30°)	1116.6	5.2	B3/2500		
BM	(30°-60°)	4230.6	19.7	B3/5000		
BH	(60°-80°)	2542.1	11.8	B4/5000		G4/5000
BVH	(80°-90°)	118.1	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°	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	2109.7	2111.1	2109.7	2105.5	2104.1	2091.6	2077.7	2070.7	2069.3	2063.7	2065.1
5°	2240.7	2236.5	2230.9	2224.0	2217.0	2196.1	2172.4	2159.9	2155.7	2151.5	2145.9
7.5°	2357.8	2360.5	2357.8	2348.0	2329.9	2303.4	2272.8	2253.2	2251.8	2247.7	2243.5
10°	2508.2	2515.2	2498.5	2481.8	2456.7	2416.3	2381.4	2356.4	2352.2	2346.6	2343.8
12.5°	2671.3	2672.7	2667.1	2629.5	2587.7	2531.9	2481.8	2456.7	2451.1	2444.1	2441.4
15°	2845.5	2846.9	2816.2	2780.0	2715.9	2649.0	2579.3	2551.4	2544.5	2545.9	2534.7
17.5°	2983.4	2986.2	2956.9	2911.0	2834.3	2754.9	2679.6	2657.3	2653.2	2654.6	2649.0
20°	3043.3	3047.5	3029.4	2994.6	2922.1	2852.4	2798.1	2784.2	2782.8	2780.0	2791.1
22.5°	3040.6	3041.9	3035.0	3021.0	2977.8	2937.4	2930.5	2938.8	2937.4	2940.2	2950.0
25°	3015.5	3019.7	3018.3	3023.8	3016.9	3032.2	3064.2	3093.5	3097.7	3103.3	3121.4
27.5°	3079.6	3087.9	3078.2	3083.8	3094.9	3146.5	3212.0	3256.5	3264.9	3280.2	3295.6
30°	3330.4	3319.2	3306.7	3292.8	3299.7	3331.8	3405.6	3444.7	3448.8	3460.0	3480.9
32.5°	3702.5	3689.9	3678.8	3656.5	3650.9	3637.0	3662.0	3671.8	3670.4	3681.6	3687.1
35°	4121.9	4123.3	4120.5	4137.2	4151.2	4080.1	3992.3	3968.6	3978.4	3965.8	3968.6
37.5°	4480.0	4484.2	4558.0	4650.0	4676.5	4631.9	4439.6	4344.8	4312.8	4308.6	4276.6
40°	4877.1	4877.1	4988.6	5101.5	5175.4	5231.1	5002.6	4835.3	4767.1	4747.6	4668.1
42.5°	5313.3	5291.0	5392.7	5516.8	5653.3	5780.1	5661.7	5473.6	5376.0	5341.2	5201.8
45°	5671.4	5657.5	5707.7	5823.3	6044.9	6292.9	6309.6	6213.5	6155.0	6082.5	5954.3
47.5°	5891.6	5884.6	5913.9	6039.3	6316.6	6717.9	6942.3	6991.0	6956.2	6900.5	6776.4
50°	5978.0	5968.2	5989.1	6128.5	6439.2	6968.7	7464.8	7694.7	7711.5	7724.0	7685.0
52.5°	5947.3	5934.8	5978.0	6095.0	6418.3	7056.5	7873.1	8314.8	8388.7	8451.4	8579.6
55°	5653.3	5633.8	5750.9	5971.0	6327.8	7024.5	8171.3	8911.2	9067.3	9234.5	9518.8
57.5°	5203.2	5186.5	5355.1	5657.5	6167.5	6936.7	8372.0	9665.1	10016.3	10317.3	11124.1
60°	4769.9	4755.9	4854.9	5147.5	5647.7	6508.9	8123.9	9918.7	10508.2	11157.5	12630.4
62.5°	3995.1	3957.5	4089.8	4336.5	4652.8	5384.4	7041.2	9354.4	10262.9	11217.4	13214.3
65°	2455.3	2509.6	2623.9	2897.0	3415.4	3763.8	5171.2	7567.9	8766.3	9963.3	12553.8
67.5°	1559.3	1574.6	1659.6	1849.1	2250.5	2600.2	3133.9	4748.9	5672.8	6850.3	9856.0
70°	1336.3	1346.1	1418.6	1616.4	1893.7	2324.3	2371.7	2480.4	2812.0	3561.7	5794.1
72.5°	1053.5	1070.2	1127.3	1298.7	1633.1	2095.8	2927.7	1960.6	1893.7	1956.4	2827.4
75°	627.1	646.6	693.9	787.3	1049.3	1602.5	3067.0	2281.1	2126.4	2005.2	1950.9
77.5°	331.6	317.7	349.8	404.1	539.3	854.2	2304.8	2795.3	2686.6	2541.7	2233.7
80°	164.4	170.0	179.8	190.9	241.1	347.0	1152.4	2891.5	3205.0	3344.3	3071.2
82.5°	65.5	73.9	104.5	111.5	132.4	147.7	370.7	1602.5	2295.0	3113.0	4064.8
85°	33.4	32.0	55.7	66.9	78.0	69.7	131.0	597.8	1075.8	1676.3	2715.9
87.5°	4.2	5.6	12.5	16.7	23.7	22.3	37.6	129.6	206.2	292.6	411.1
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°	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	2058.2	2056.8	2056.8	2051.2	2051.2	2052.6	2048.4	2045.6	2045.6	2047.0	2041.4
5°	2141.8	2137.6	2137.6	2132.0	2125.0	2125.0	2119.5	2118.1	2115.3	2109.7	2105.5
7.5°	2239.3	2235.1	2228.2	2224.0	2221.2	2217.0	2210.0	2207.3	2201.7	2196.1	2190.5
10°	2339.6	2334.1	2331.3	2324.3	2321.5	2313.2	2309.0	2310.4	2299.2	2295.0	2296.4
12.5°	2440.0	2434.4	2424.6	2421.9	2420.5	2412.1	2407.9	2405.1	2396.8	2395.4	2391.2
15°	2529.2	2531.9	2527.8	2520.8	2515.2	2513.8	2509.6	2506.9	2501.3	2495.7	2490.1
17.5°	2644.8	2649.0	2643.4	2633.7	2633.7	2632.3	2633.7	2632.3	2622.5	2626.7	2623.9
20°	2792.5	2795.3	2781.4	2785.5	2788.3	2786.9	2791.1	2795.3	2792.5	2792.5	2796.7
22.5°	2962.5	2966.7	2958.3	2963.9	2972.3	2965.3	2977.8	2976.5	2979.2	2983.4	2984.8
25°	3136.7	3145.1	3138.1	3153.4	3147.9	3153.4	3168.8	3164.6	3171.5	3182.7	3186.9
27.5°	3310.9	3316.5	3317.9	3327.6	3337.4	3345.7	3365.2	3365.2	3370.8	3390.3	3390.3
30°	3493.4	3499.0	3504.6	3518.5	3524.1	3539.4	3558.9	3564.5	3561.7	3589.6	3597.9
32.5°	3703.8	3709.4	3719.2	3735.9	3742.9	3758.2	3758.2	3773.5	3784.7	3808.4	3809.7
35°	3983.9	3988.1	3983.9	3982.5	3992.3	4013.2	4014.6	4036.9	4046.6	4070.3	4077.3
37.5°	4264.0	4262.6	4244.5	4225.0	4226.4	4218.0	4212.5	4222.2	4226.4	4227.8	4243.1
40°	4641.7	4605.4	4577.6	4528.8	4506.5	4471.6	4450.7	4449.4	4427.1	4424.3	4428.5
42.5°	5136.3	5094.5	5029.0	4946.8	4884.1	4820.0	4772.6	4744.8	4696.0	4670.9	4650.0
45°	5827.5	5724.4	5646.3	5548.8	5427.6	5316.1	5199.0	5146.1	5052.7	4995.6	4931.5
47.5°	6671.9	6570.2	6450.4	6350.0	6191.2	6036.5	5876.3	5735.5	5572.5	5442.9	5337.0
50°	7588.8	7528.9	7442.5	7349.2	7144.3	7042.6	6840.5	6649.6	6474.1	6242.8	6040.7
52.5°	8529.4	8564.3	8544.8	8511.3	8381.7	8342.7	8168.5	7935.8	7758.8	7600.0	7248.8
55°	9688.8	9730.6	9814.2	9863.0	9847.7	9946.6	9903.4	9722.2	9651.2	9577.3	9327.9
57.5°	11462.7	11760.9	12080.0	12360.1	12425.6	12776.7	12701.5	12882.6	13010.8	12918.9	12838.0
60°	13353.6	13955.6	14497.7	15064.8	15526.1	15871.6	16328.7	16636.7	16830.3	17178.7	17206.6
62.5°	14115.9	14933.8	15622.2	16279.9	16827.6	17306.9	17719.4	18144.4	18492.8	18807.7	19034.8
65°	13697.8	14552.0	15386.7	16054.2	16580.9	16993.4	17442.1	17779.3	18122.1	18324.1	18562.4
67.5°	11387.4	12518.9	13545.9	14298.4	15018.8	15438.3	15969.2	16300.8	16664.5	16877.7	17031.0
70°	7424.4	8897.3	10300.5	11441.8	12414.4	12903.5	13544.5	13997.4	14435.0	14446.1	14701.1
72.5°	4006.2	5238.1	6412.8	7579.1	8688.3	9339.0	9971.7	10522.1	10956.9	10771.5	11025.1
75°	2230.9	2807.8	3450.2	4151.2	4827.0	5199.0	5671.4	5674.2	5898.6	5546.0	5635.2
77.5°	2145.9	2119.5	2129.2	2148.7	2182.2	2111.1	2109.7	2066.5	1999.6	1878.4	1899.3
80°	2819.0	2481.8	2239.3	1858.9	1496.6	1220.7	1144.0	1162.2	1216.5	1325.2	1463.1
82.5°	4075.9	3791.6	3384.7	2785.5	2186.4	1686.1	1385.1	1229.0	1222.1	1330.8	1539.8
85°	2968.1	3139.5	3113.0	2598.8	2143.2	1740.4	1266.7	1070.2	886.2	843.1	916.9
87.5°	437.5	362.3	408.3	341.4	248.0	192.3	168.6	135.2	129.6	132.4	144.9
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°	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	2042.8	2037.3	2031.7	2035.9	2031.7	2030.3	2026.1	2023.3	2021.9	2021.9	2021.9
5°	2105.5	2098.6	2094.4	2093.0	2088.8	2084.6	2083.2	2076.3	2074.9	2074.9	2070.7
7.5°	2190.5	2185.0	2178.0	2173.8	2171.0	2164.1	2157.1	2155.7	2154.3	2148.7	2144.6
10°	2289.5	2281.1	2272.8	2272.8	2267.2	2265.8	2258.8	2249.1	2247.7	2239.3	2236.5
12.5°	2382.8	2380.0	2370.3	2367.5	2363.3	2359.1	2355.0	2350.8	2346.6	2339.6	2342.4
15°	2494.3	2487.3	2479.0	2480.4	2479.0	2473.4	2467.8	2463.7	2460.9	2458.1	2458.1
17.5°	2628.1	2625.3	2623.9	2616.9	2611.4	2615.5	2615.5	2615.5	2608.6	2610.0	2611.4
20°	2798.1	2800.9	2798.1	2792.5	2791.1	2795.3	2785.5	2800.9	2792.5	2786.9	2789.7
22.5°	2986.2	2996.0	2984.8	2986.2	2993.2	2996.0	2986.2	2998.7	2994.6	2986.2	2993.2
25°	3191.0	3198.0	3192.4	3191.0	3195.2	3205.0	3203.6	3202.2	3212.0	3203.6	3207.8
27.5°	3401.5	3405.6	3408.4	3412.6	3415.4	3414.0	3419.6	3419.6	3425.2	3415.4	3419.6
30°	3610.5	3610.5	3616.1	3621.6	3621.6	3621.6	3632.8	3634.2	3625.8	3628.6	3618.8
32.5°	3833.4	3834.8	3840.4	3840.4	3851.6	3852.9	3865.5	3848.8	3865.5	3851.6	3854.3
35°	4095.4	4113.5	4116.3	4130.2	4141.4	4145.6	4145.6	4147.0	4162.3	4151.2	4155.3
37.5°	4248.7	4252.9	4264.0	4271.0	4271.0	4276.6	4280.7	4276.6	4280.7	4279.3	4283.5
40°	4429.8	4425.7	4438.2	4441.0	4435.4	4442.4	4441.0	4436.8	4448.0	4439.6	4445.2
42.5°	4650.0	4626.3	4624.9	4636.1	4624.9	4630.5	4629.1	4619.4	4633.3	4637.5	4633.3
45°	4885.5	4873.0	4847.9	4847.9	4836.7	4832.6	4834.0	4832.6	4834.0	4850.7	4856.2
47.5°	5268.7	5192.1	5148.9	5108.5	5075.0	5073.6	5058.3	5066.7	5077.8	5105.7	5130.8
50°	5911.1	5734.1	5625.4	5525.1	5452.7	5427.6	5398.3	5395.5	5405.3	5437.3	5480.5
52.5°	7056.5	6811.3	6580.0	6365.4	6178.7	6035.1	5964.1	5926.4	5912.5	5944.5	5986.4
55°	9152.3	8689.7	8363.6	8146.2	7682.2	7485.7	7233.5	7117.9	7005.0	7016.1	7087.2
57.5°	12733.5	12484.1	12211.0	11830.6	11546.3	11203.5	10573.7	10222.5	10237.8	10320.0	10063.6
60°	17426.7	17174.5	17061.7	16716.1	16518.2	16380.3	16045.8	15463.3	15257.1	15218.1	14747.1
62.5°	19209.0	19268.9	19358.1	19455.6	19450.1	19510.0	19217.4	19027.8	18789.6	18480.2	18014.8
65°	18743.6	18895.5	19076.6	19338.6	19636.8	19857.0	20042.3	20020.0	19797.0	19384.6	18892.7
67.5°	17167.6	17318.1	17450.4	17801.6	18290.7	18738.0	19133.8	19402.7	19253.6	18912.2	18338.1
70°	14798.7	14907.4	14991.0	15296.1	15832.6	16378.9	16895.8	17347.3	17301.3	16887.5	16429.0
72.5°	10722.8	10986.1	11128.3	11107.4	11439.0	12050.7	12123.2	12509.2	12616.5	12170.6	11440.4
75°	5224.1	5228.3	5063.9	5009.5	5026.3	5132.2	4930.1	4942.6	4873.0	4556.7	4296.1
77.5°	1825.4	1775.3	1655.4	1513.3	1309.9	1119.0	925.3	841.7	813.8	731.6	674.4
80°	1573.2	1647.1	1623.4	1506.3	1291.7	1029.8	769.2	569.9	486.3	457.1	429.2
82.5°	1786.4	2070.7	2251.8	2242.1	1948.1	1463.1	912.7	523.9	373.5	327.5	301.0
85°	996.3	1071.6	1092.5	994.9	826.3	564.4	314.9	221.6	188.1	171.4	154.7
87.5°	158.9	144.9	142.1	124.0	117.1	107.3	94.8	89.2	82.2	78.0	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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CATALOG NUMBER: VST-F10-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	2020.5	2019.1	2015.0	2010.8	2008.0	2006.6	2005.2	2002.4	2001.0	1999.6	1996.8
5°	2067.9	2065.1	2058.2	2051.2	2048.4	2044.2	2040.0	2037.3	2034.5	2033.1	2027.5
7.5°	2141.8	2139.0	2130.6	2125.0	2123.6	2112.5	2111.1	2106.9	2100.0	2098.6	2090.2
10°	2230.9	2229.6	2222.6	2218.4	2215.6	2210.0	2201.7	2194.7	2187.7	2187.7	2182.2
12.5°	2334.1	2328.5	2332.7	2322.9	2320.1	2314.6	2310.4	2309.0	2300.6	2293.7	2292.3
15°	2455.3	2448.3	2448.3	2445.5	2442.8	2437.2	2435.8	2437.2	2428.8	2431.6	2423.2
17.5°	2605.8	2608.6	2607.2	2607.2	2600.2	2600.2	2589.1	2603.0	2593.2	2600.2	2597.4
20°	2793.9	2795.3	2792.5	2796.7	2799.5	2798.1	2796.7	2795.3	2799.5	2805.1	2800.9
22.5°	2994.6	2994.6	2993.2	3008.5	2991.8	3004.3	3008.5	3000.1	3022.4	3019.7	3023.8
25°	3212.0	3212.0	3223.1	3235.6	3238.4	3228.7	3234.2	3227.3	3241.2	3252.4	3255.1
27.5°	3414.0	3432.1	3440.5	3432.1	3439.1	3454.4	3453.0	3453.0	3462.8	3460.0	3486.5
30°	3621.6	3632.8	3643.9	3638.4	3641.1	3660.6	3662.0	3663.4	3676.0	3694.1	3713.6
32.5°	3858.5	3869.7	3864.1	3882.2	3880.8	3904.5	3908.7	3912.9	3951.9	3944.9	3985.3
35°	4149.8	4160.9	4155.3	4174.8	4172.1	4180.4	4195.7	4212.5	4219.4	4259.8	4291.9
37.5°	4286.3	4286.3	4298.9	4321.2	4329.5	4343.4	4367.1	4388.0	4422.9	4466.1	4516.2
40°	4450.7	4454.9	4471.6	4495.3	4510.7	4542.7	4585.9	4615.2	4668.1	4715.5	4774.0
42.5°	4650.0	4668.1	4687.6	4719.7	4753.1	4803.3	4864.6	4902.2	4971.9	5033.2	5105.7
45°	4882.7	4900.8	4946.8	5005.3	5054.1	5109.9	5160.0	5249.2	5311.9	5376.0	5438.7
47.5°	5164.2	5217.2	5254.8	5324.5	5384.4	5458.2	5520.9	5604.5	5672.8	5750.9	5803.8
50°	5525.1	5590.6	5639.4	5730.0	5788.5	5870.7	5950.1	6012.8	6082.5	6159.1	6202.3
52.5°	6043.5	6110.4	6171.7	6284.6	6357.0	6412.8	6518.7	6596.7	6660.8	6716.5	6763.9
55°	7166.6	7147.1	7317.1	7535.9	7561.0	7763.0	7800.7	7866.1	7984.6	8001.3	8133.7
57.5°	10375.8	10275.5	10522.1	10842.6	10786.9	10685.1	11110.1	11136.6	11076.7	11237.0	11055.8
60°	14816.8	14641.2	14708.1	14795.9	14669.1	14609.2	14630.1	14690.0	14631.4	14567.3	14391.8
62.5°	17782.1	17511.8	17318.1	17155.0	16948.8	16799.7	16632.5	16426.2	16370.5	16136.4	15939.9
65°	18414.7	17993.9	17687.3	17379.4	17095.1	16831.7	16579.5	16402.5	16168.4	15891.1	15686.3
67.5°	17719.4	17198.2	16749.5	16302.2	15980.3	15592.9	15403.4	15115.0	14826.5	14508.8	14320.7
70°	15698.8	15155.4	14591.0	14153.5	13715.9	13236.6	13143.2	12801.8	12636.0	12202.6	12127.4
72.5°	10835.6	10473.3	10221.1	9680.4	9414.3	9169.0	9091.0	8774.7	8808.1	8333.0	8505.7
75°	3852.9	3801.4	3727.5	3422.4	3368.0	3273.3	3248.2	3225.9	3451.6	3138.1	3365.2
77.5°	661.9	657.7	620.1	602.0	636.8	614.5	620.1	608.9	674.4	684.2	668.9
80°	411.1	399.9	387.4	379.0	380.4	372.1	373.5	376.2	380.4	379.0	383.2
82.5°	281.5	271.7	266.2	260.6	268.9	271.7	278.7	285.7	296.8	303.8	312.1
85°	153.3	140.7	140.7	139.3	150.5	158.9	170.0	183.9	203.4	220.2	238.3
87.5°	78.0	75.2	76.6	79.4	89.2	96.1	110.1	122.6	139.3	157.5	174.2
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-T2-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	1995.5	1995.5	1994.1	1994.1	1992.7	1991.3	1989.9	1985.7	1970.4	1956.4	1946.7
5°	2026.1	2021.9	2020.5	2016.4	2015.0	2012.2	2008.0	2003.8	1975.9	1950.9	1932.7
7.5°	2088.8	2083.2	2080.5	2076.3	2072.1	2066.5	2060.9	2056.8	2023.3	1994.1	1971.8
10°	2171.0	2168.2	2166.8	2161.3	2161.3	2152.9	2151.5	2141.8	2105.5	2079.1	2059.6
12.5°	2285.3	2279.7	2278.3	2271.4	2274.1	2271.4	2268.6	2263.0	2236.5	2205.9	2179.4
15°	2427.4	2427.4	2420.5	2414.9	2416.3	2413.5	2419.1	2412.1	2395.4	2367.5	2324.3
17.5°	2598.8	2596.0	2598.8	2594.6	2597.4	2600.2	2593.2	2594.6	2586.3	2551.4	2487.3
20°	2798.1	2793.9	2810.6	2803.7	2819.0	2805.1	2807.8	2812.0	2812.0	2766.0	2679.6
22.5°	3026.6	3023.8	3023.8	3037.8	3043.3	3044.7	3050.3	3054.5	3065.6	3007.1	2869.2
25°	3255.1	3264.9	3266.3	3284.4	3292.8	3292.8	3297.0	3312.3	3345.7	3264.9	3086.5
27.5°	3487.9	3511.5	3517.1	3529.7	3542.2	3554.7	3564.5	3575.6	3630.0	3542.2	3309.5
30°	3720.6	3747.0	3766.6	3780.5	3795.8	3826.5	3832.0	3854.3	3944.9	3837.6	3521.3
32.5°	3993.7	4031.3	4056.4	4074.5	4098.2	4127.5	4144.2	4172.1	4259.8	4084.3	3676.0
35°	4319.8	4342.1	4378.3	4408.9	4422.9	4473.0	4499.5	4506.5	4573.4	4297.5	3790.2
37.5°	4545.5	4583.1	4645.8	4689.0	4714.1	4742.0	4786.6	4815.8	4879.9	4491.2	3847.4
40°	4832.6	4889.7	4939.9	5004.0	5044.4	5065.3	5109.9	5133.5	5141.9	4657.0	3829.3
42.5°	5182.3	5233.9	5300.8	5352.3	5383.0	5406.7	5442.9	5452.7	5344.0	4735.0	3731.7
45°	5511.2	5590.6	5647.7	5685.4	5707.7	5720.2	5742.5	5743.9	5511.2	4696.0	3564.5
47.5°	5865.1	5922.3	5975.2	6001.7	5998.9	6001.7	5993.3	5987.7	5594.8	4560.8	3349.9
50°	6256.7	6294.3	6316.6	6329.1	6336.1	6309.6	6272.0	6246.9	5601.8	4368.5	3132.5
52.5°	6782.0	6829.4	6825.2	6823.8	6768.1	6743.0	6642.7	6591.1	5561.3	4142.8	2887.3
55°	8112.8	8066.8	7976.2	8020.8	7793.7	7675.2	7519.2	7374.2	5614.3	3928.2	2603.0
57.5°	11128.3	11146.4	10888.6	10750.6	10367.4	9888.1	9502.1	9127.2	6090.9	3797.2	2232.3
60°	14274.7	14037.8	13710.4	13211.5	12718.2	12006.1	11319.2	10669.8	6566.0	3660.6	1793.4
62.5°	15648.7	15311.5	14816.8	14171.6	13396.8	12525.9	11670.3	10878.8	6336.1	3218.9	1304.3
65°	15370.0	14854.4	14308.2	13552.9	12610.9	11656.4	10657.3	9849.1	5300.8	2401.0	804.0
67.5°	13912.4	13474.9	12898.0	12002.0	10994.5	10000.9	9085.4	8179.7	3937.9	1496.6	450.1
70°	11742.8	11315.0	10729.7	9812.8	8806.7	7856.4	6886.5	6148.0	2509.6	721.8	324.7
72.5°	8146.2	7799.3	7385.4	6731.9	5849.8	4985.8	4329.5	3762.4	1390.7	383.2	296.8
75°	3308.1	3309.5	3234.2	2958.3	2499.9	2155.7	1838.0	1559.3	581.1	326.1	292.6
77.5°	749.7	762.2	833.3	790.1	712.1	666.1	596.4	526.7	353.9	335.8	295.4
80°	379.0	380.4	376.2	377.6	373.5	374.8	369.3	365.1	331.6	345.6	295.4
82.5°	316.3	323.3	321.9	321.9	323.3	323.3	323.3	321.9	344.2	363.7	285.7
85°	250.8	264.8	275.9	287.1	299.6	308.0	312.1	316.3	334.4	358.1	259.2
87.5°	189.5	206.2	220.2	231.3	250.8	250.8	264.8	274.5	274.5	280.1	136.6
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: P159383

CATALOG NUMBER: VST-F10-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	2001.0	2001.0	2001.0	2001.0	2001.0
2.5°	1932.7	1927.2	1921.6	1918.8	1913.2
5°	1918.8	1907.7	1900.7	1900.7	1895.1
7.5°	1959.2	1955.0	1945.3	1939.7	1945.3
10°	2045.6	2038.6	2027.5	2019.1	2023.3
12.5°	2161.3	2133.4	2111.1	2101.4	2094.4
15°	2281.1	2225.4	2180.8	2155.7	2148.7
17.5°	2409.3	2311.8	2244.9	2207.3	2200.3
20°	2540.3	2419.1	2324.3	2275.5	2274.1
22.5°	2697.8	2536.1	2414.9	2350.8	2346.6
25°	2863.6	2640.6	2480.4	2398.2	2389.8
27.5°	3007.1	2724.2	2520.8	2423.2	2414.9
30°	3126.9	2786.9	2554.2	2441.4	2430.2
32.5°	3213.3	2823.2	2568.2	2446.9	2434.4
35°	3241.2	2809.2	2529.2	2396.8	2382.8
37.5°	3203.6	2718.7	2420.5	2274.1	2257.4
40°	3090.7	2559.8	2243.5	2093.0	2072.1
42.5°	2917.9	2364.7	2030.3	1886.8	1860.3
45°	2704.7	2144.6	1818.5	1658.2	1645.7
47.5°	2481.8	1913.2	1580.2	1435.3	1419.9
50°	2240.7	1645.7	1347.5	1190.0	1190.0
52.5°	1953.6	1385.1	1077.2	958.7	949.0
55°	1623.4	1091.1	858.4	767.8	755.3
57.5°	1268.1	838.9	685.6	632.6	618.7
60°	932.2	629.8	551.8	522.6	517.0
62.5°	632.6	479.4	444.5	432.0	430.6
65°	427.8	373.5	363.7	359.5	360.9
67.5°	328.9	310.7	306.6	305.2	305.2
70°	285.7	274.5	270.3	271.7	270.3
72.5°	268.9	253.6	255.0	257.8	256.4
75°	263.4	243.9	249.4	250.8	245.3
77.5°	259.2	232.7	246.6	250.8	235.5
80°	250.8	223.0	256.4	257.8	231.3
82.5°	229.9	197.9	256.4	236.9	209.0
85°	195.1	150.5	289.8	206.2	154.7
87.5°	124.0	89.2	196.5	140.7	93.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)