

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: P159358

Luminaire Tested: **VST-E08-LED-E-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159358
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-E08-LED-E-U-T2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20841.3 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 194.5
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

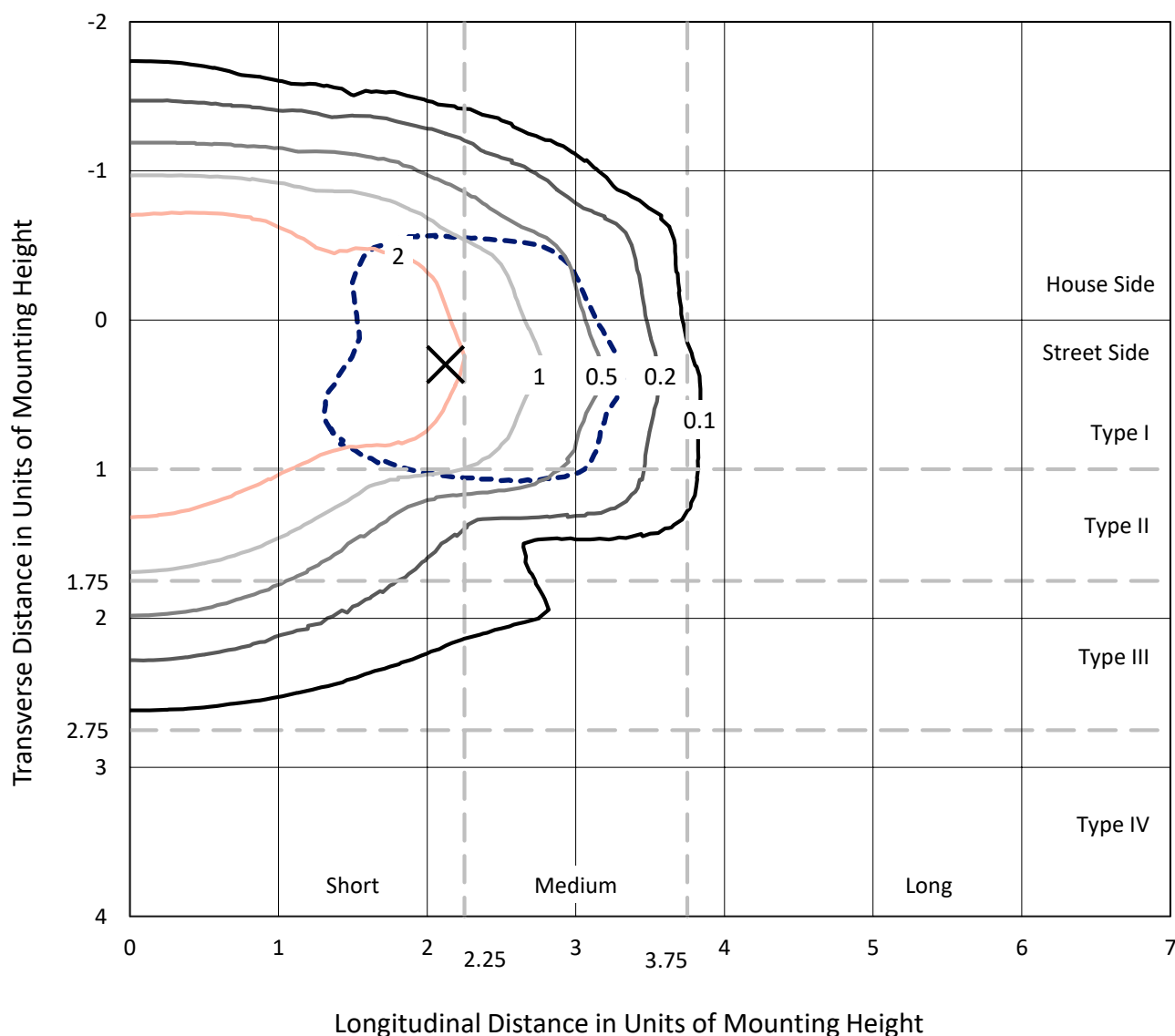


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

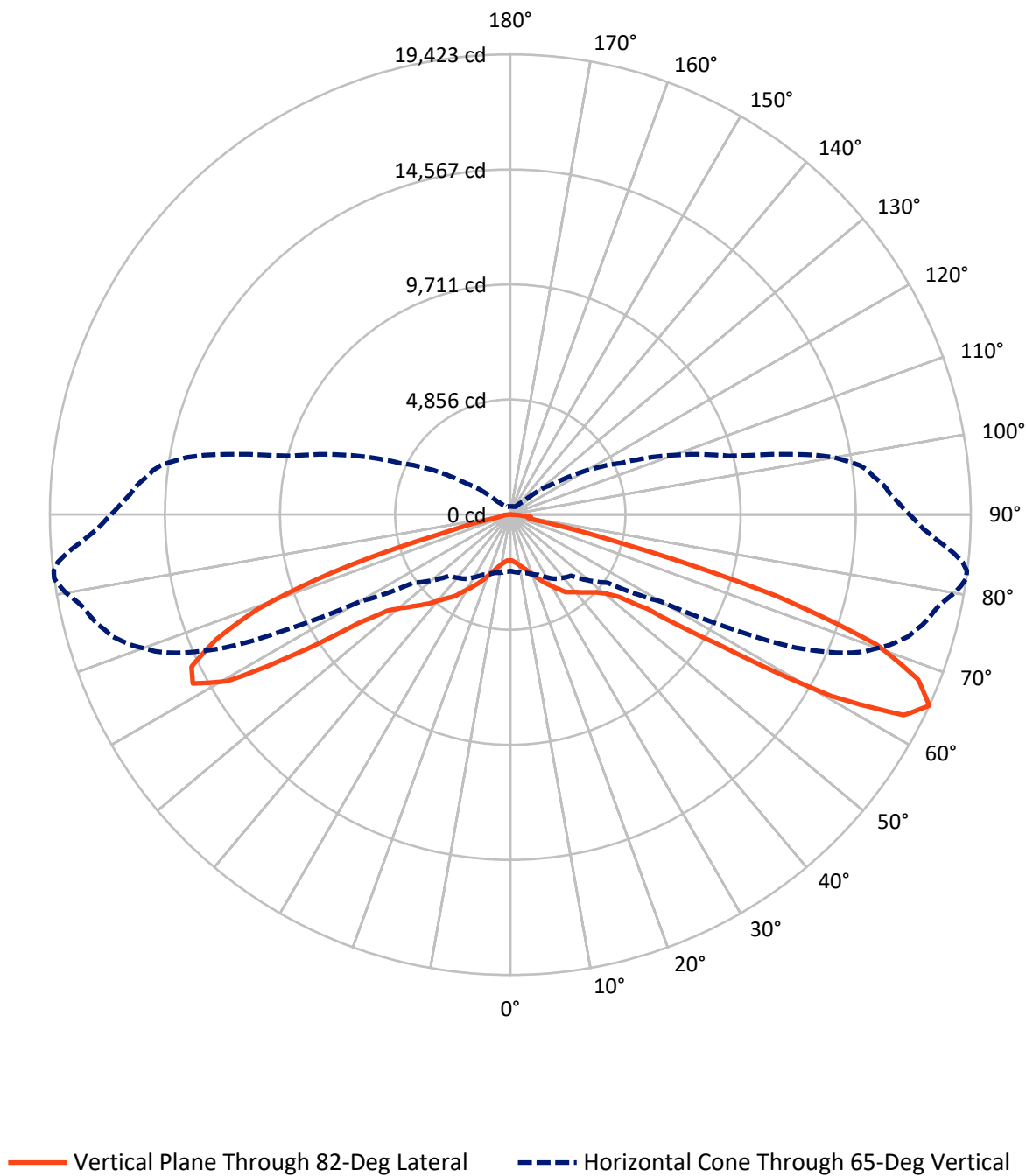


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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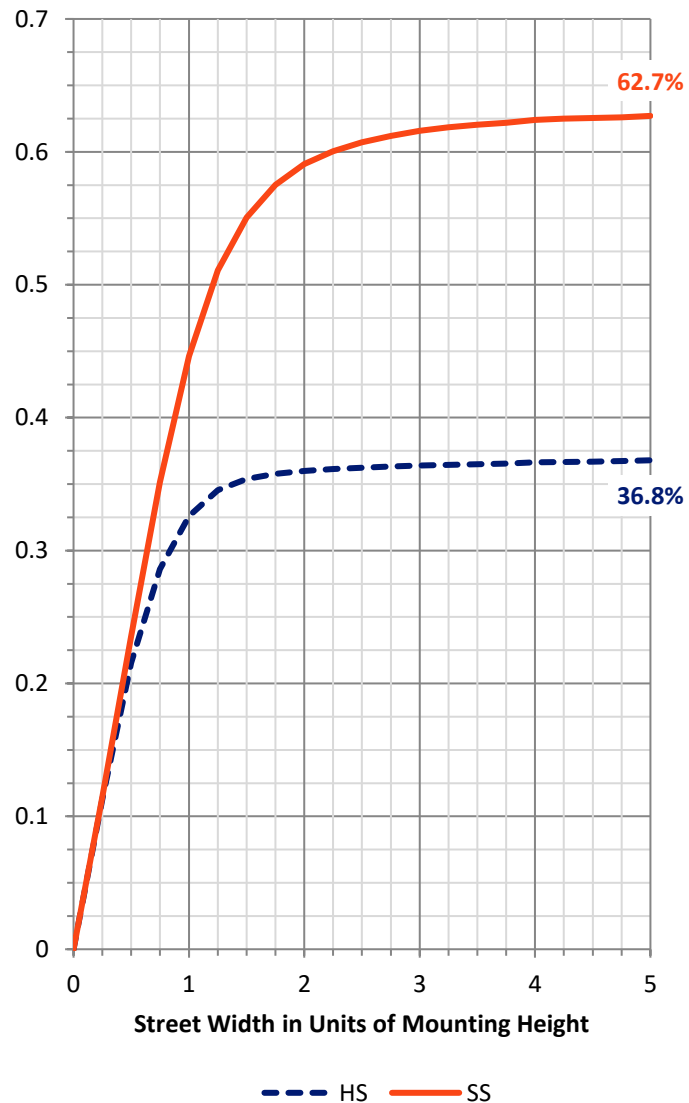
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7759.9	0.0	7759.9
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	13081.4	0.0	13081.4
	% Fixture	62.8	0.0	62.8
Total	Lumens	20841.3	0.0	20841.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	0.9
10°-20°	689.8	3.3
20°-30°	1366.8	6.6
30°-40°	2343.0	11.2
40°-50°	3519.7	16.9
50°-60°	4890.1	23.5
60°-70°	5578.8	26.8
70°-80°	1921.8	9.2
80°-90°	335.0	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°	20841.3	100.0
0°-180°	20841.3	100.0

Coefficient of Utilization



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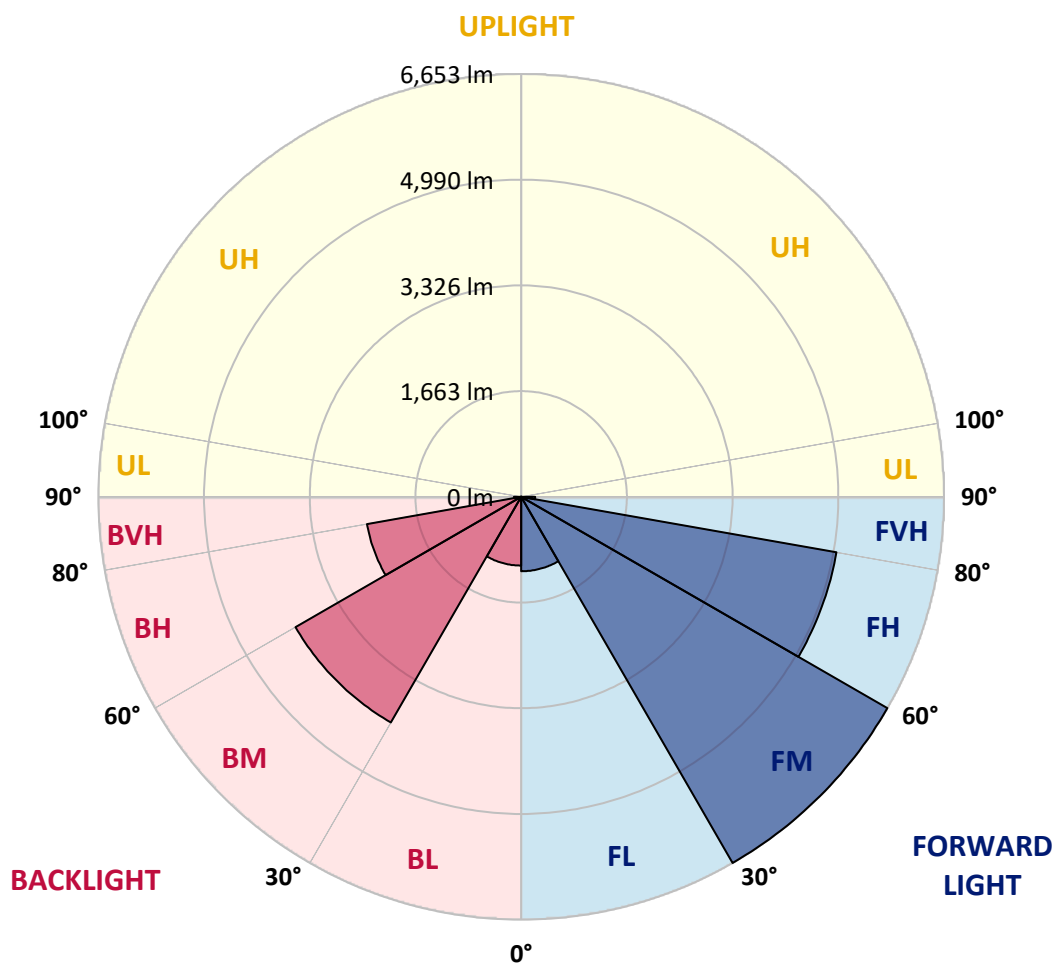
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1170.8	5.6			
FM	(30°-60°)	6653.0	31.9			
FH	(60°-80°)	5037.1	24.2			G3/7500
FVH	(80°-90°)	220.5	1.1			G2/225
BL	(0°-30°)	1082.1	5.2	B3/2500		
BM	(30°-60°)	4099.8	19.7	B3/5000		
BH	(60°-80°)	2463.5	11.8	B3/2500		G3/2500
BVH	(80°-90°)	114.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	2044.5	2045.8	2044.5	2040.4	2039.1	2026.9	2013.4	2006.7	2005.3	1999.9	2001.3
5°	2171.4	2167.4	2162.0	2155.2	2148.5	2128.2	2105.3	2093.1	2089.0	2085.0	2079.6
7.5°	2284.9	2287.6	2284.9	2275.4	2257.8	2232.2	2202.5	2183.6	2182.2	2178.2	2174.1
10°	2430.7	2437.4	2421.2	2405.0	2380.7	2341.6	2307.8	2283.5	2279.5	2274.0	2271.3
12.5°	2588.7	2590.0	2584.6	2548.2	2507.7	2453.7	2405.0	2380.7	2375.3	2368.6	2365.9
15°	2757.5	2758.8	2729.1	2694.0	2631.9	2567.1	2499.6	2472.6	2465.8	2467.2	2456.4
17.5°	2891.2	2893.9	2865.5	2821.0	2746.7	2669.7	2596.8	2575.2	2571.1	2572.5	2567.1
20°	2949.2	2953.3	2935.7	2902.0	2831.8	2764.2	2711.6	2698.1	2696.7	2694.0	2704.8
22.5°	2946.5	2947.9	2941.1	2927.6	2885.8	2846.6	2839.9	2848.0	2846.6	2849.3	2858.8
25°	2922.2	2926.3	2924.9	2930.3	2923.6	2938.4	2969.5	2997.9	3001.9	3007.3	3024.9
27.5°	2984.4	2992.5	2983.0	2988.4	2999.2	3049.2	3112.6	3155.9	3164.0	3178.8	3193.7
30°	3227.4	3216.6	3204.5	3191.0	3197.7	3228.8	3300.3	3338.2	3342.2	3353.0	3373.3
32.5°	3588.0	3575.8	3565.0	3543.4	3538.0	3524.5	3548.8	3558.3	3556.9	3567.7	3573.1
35°	3994.4	3995.8	3993.1	4009.3	4022.8	3953.9	3868.9	3845.9	3855.4	3843.2	3845.9
37.5°	4341.5	4345.5	4417.1	4506.2	4531.9	4488.7	4302.3	4210.5	4179.4	4175.4	4144.3
40°	4726.3	4726.3	4834.4	4943.8	5015.3	5069.3	4847.9	4685.8	4619.7	4600.8	4523.8
42.5°	5149.0	5127.4	5226.0	5346.2	5478.5	5601.4	5486.6	5304.3	5209.8	5176.0	5041.0
45°	5496.1	5482.6	5531.2	5643.3	5858.0	6098.3	6114.5	6021.4	5964.7	5894.4	5770.2
47.5°	5709.4	5702.7	5731.0	5852.6	6121.3	6510.2	6727.6	6774.9	6741.1	6687.1	6566.9
50°	5793.2	5783.7	5804.0	5939.0	6240.1	6753.3	7234.0	7456.8	7473.0	7485.2	7447.4
52.5°	5763.4	5751.3	5793.2	5906.6	6219.9	6838.4	7629.7	8057.8	8129.3	8190.1	8314.3
55°	5478.5	5459.6	5573.0	5786.4	6132.1	6807.3	7918.7	8635.7	8787.0	8949.0	9224.5
57.5°	5042.3	5026.1	5189.5	5482.6	5976.8	6722.2	8113.1	9366.3	9706.6	9998.3	10780.1
60°	4622.4	4608.9	4704.7	4988.3	5473.1	6307.7	7872.7	9612.0	10183.3	10812.5	12239.9
62.5°	3871.6	3835.1	3963.4	4202.4	4508.9	5217.9	6823.5	9065.1	9945.6	10870.6	12805.7
65°	2379.4	2432.0	2542.8	2807.5	3309.8	3647.4	5011.3	7333.9	8495.3	9655.3	12165.6
67.5°	1511.1	1525.9	1608.3	1792.0	2180.9	2519.8	3037.0	4602.1	5497.4	6638.5	9551.3
70°	1295.0	1304.5	1374.7	1566.4	1835.2	2252.4	2298.4	2403.7	2725.1	3451.6	5614.9
72.5°	1020.9	1037.1	1092.5	1258.6	1582.7	2031.0	2837.2	1900.0	1835.2	1895.9	2739.9
75°	607.7	626.6	672.5	763.0	1016.8	1552.9	2972.2	2210.6	2060.7	1943.2	1890.5
77.5°	321.4	307.9	338.9	391.6	522.6	827.8	2233.5	2708.9	2603.5	2463.1	2164.7
80°	159.3	164.7	174.2	185.0	233.6	336.2	1116.8	2802.0	3105.9	3240.9	2976.2
82.5°	63.5	71.6	101.3	108.0	128.3	143.1	359.2	1552.9	2224.1	3016.8	3939.1
85°	32.4	31.1	54.0	64.8	75.6	67.5	126.9	579.3	1042.5	1624.5	2631.9
87.5°	4.1	5.4	12.2	16.2	23.0	21.6	36.5	125.6	199.9	283.6	398.4
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°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1994.5	1993.2	1993.2	1987.8	1987.8	1989.1	1985.1	1982.4	1982.4	1983.7	1978.3
5°	2075.5	2071.5	2071.5	2066.1	2059.3	2059.3	2053.9	2052.6	2049.9	2044.5	2040.4
7.5°	2170.1	2166.0	2159.3	2155.2	2152.5	2148.5	2141.7	2139.0	2133.6	2128.2	2122.8
10°	2267.3	2261.9	2259.2	2252.4	2249.7	2241.6	2237.6	2238.9	2228.1	2224.1	2225.4
12.5°	2364.5	2359.1	2349.7	2347.0	2345.6	2337.5	2333.5	2330.8	2322.7	2321.3	2317.3
15°	2450.9	2453.7	2449.6	2442.8	2437.4	2436.1	2432.0	2429.3	2423.9	2418.5	2413.1
17.5°	2563.0	2567.1	2561.7	2552.2	2552.2	2550.9	2552.2	2550.9	2541.4	2545.5	2542.8
20°	2706.2	2708.9	2695.4	2699.4	2702.1	2700.8	2704.8	2708.9	2706.2	2706.2	2710.2
22.5°	2870.9	2875.0	2866.9	2872.3	2880.4	2873.6	2885.8	2884.4	2887.1	2891.2	2892.5
25°	3039.7	3047.8	3041.1	3055.9	3050.5	3055.9	3070.8	3066.7	3073.5	3084.3	3088.3
27.5°	3208.5	3213.9	3215.3	3224.7	3234.2	3242.3	3261.2	3261.2	3266.6	3285.5	3285.5
30°	3385.4	3390.8	3396.2	3409.7	3415.1	3430.0	3448.9	3454.3	3451.6	3478.6	3486.7
32.5°	3589.3	3594.7	3604.2	3620.4	3627.1	3642.0	3642.0	3656.8	3667.6	3690.6	3692.0
35°	3860.8	3864.8	3860.8	3859.4	3868.9	3889.1	3890.5	3912.1	3921.5	3944.5	3951.2
37.5°	4132.2	4130.8	4113.3	4094.4	4095.7	4087.6	4082.2	4091.7	4095.7	4097.1	4111.9
40°	4498.1	4463.0	4436.0	4388.8	4367.1	4333.4	4313.1	4311.8	4290.2	4287.5	4291.5
42.5°	4977.5	4937.0	4873.5	4793.9	4733.1	4671.0	4625.1	4598.1	4550.8	4526.5	4506.2
45°	5647.3	5547.4	5471.8	5377.2	5259.8	5151.7	5038.3	4987.0	4896.5	4841.1	4779.0
47.5°	6465.6	6367.1	6250.9	6153.7	5999.8	5849.9	5694.6	5558.2	5400.2	5274.6	5172.0
50°	7354.2	7296.1	7212.4	7121.9	6923.4	6824.8	6629.0	6444.0	6273.9	6049.7	5853.9
52.5°	8265.7	8299.5	8280.6	8248.2	8122.6	8084.8	7916.0	7690.4	7518.9	7365.0	7024.7
55°	9389.2	9429.7	9510.8	9558.0	9543.2	9639.1	9597.2	9421.6	9352.8	9281.2	9039.5
57.5°	11108.3	11397.3	11706.5	11977.9	12041.4	12381.7	12308.8	12484.3	12608.5	12519.4	12441.1
60°	12940.7	13524.1	14049.4	14599.0	15046.0	15380.9	15823.8	16122.3	16310.0	16647.6	16674.6
62.5°	13679.4	14472.1	15139.2	15776.6	16307.3	16771.8	17171.5	17583.4	17921.0	18226.2	18446.3
65°	13274.3	14102.1	14911.0	15557.8	16068.2	16468.0	16902.8	17229.6	17561.8	17757.6	17988.5
67.5°	11035.4	12131.9	13127.1	13856.3	14554.5	14960.9	15475.4	15796.8	16149.3	16355.9	16504.4
70°	7194.9	8622.2	9982.0	11088.0	12030.6	12504.6	13125.7	13564.6	13988.6	13999.4	14246.6
72.5°	3882.4	5076.1	6214.5	7344.7	8419.7	9050.3	9663.4	10196.8	10618.1	10438.5	10684.2
75°	2162.0	2721.0	3343.6	4022.8	4677.7	5038.3	5496.1	5498.8	5716.2	5374.5	5461.0
77.5°	2079.6	2053.9	2063.4	2082.3	2114.7	2045.8	2044.5	2002.6	1937.8	1820.3	1840.6
80°	2731.8	2405.0	2170.1	1801.4	1450.3	1182.9	1108.7	1126.2	1178.9	1284.2	1417.9
82.5°	3949.9	3674.4	3280.1	2699.4	2118.8	1634.0	1342.3	1191.0	1184.3	1289.6	1492.2
85°	2876.3	3042.4	3016.8	2518.5	2076.9	1686.6	1227.5	1037.1	858.8	817.0	888.6
87.5°	424.0	351.1	395.7	330.8	240.4	186.4	163.4	131.0	125.6	128.3	140.4
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°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1979.7	1974.3	1968.9	1972.9	1968.9	1967.5	1963.5	1960.8	1959.4	1959.4	1959.4
5°	2040.4	2033.7	2029.6	2028.3	2024.2	2020.2	2018.8	2012.1	2010.7	2010.7	2006.7
7.5°	2122.8	2117.4	2110.7	2106.6	2103.9	2097.1	2090.4	2089.0	2087.7	2082.3	2078.2
10°	2218.7	2210.6	2202.5	2202.5	2197.1	2195.7	2189.0	2179.5	2178.2	2170.1	2167.4
12.5°	2309.2	2306.5	2297.0	2294.3	2290.3	2286.2	2282.2	2278.1	2274.0	2267.3	2270.0
15°	2417.2	2410.4	2402.3	2403.7	2402.3	2396.9	2391.5	2387.5	2384.8	2382.1	2382.1
17.5°	2546.8	2544.1	2542.8	2536.0	2530.6	2534.7	2534.7	2534.7	2527.9	2529.3	2530.6
20°	2711.6	2714.3	2711.6	2706.2	2704.8	2708.9	2699.4	2714.3	2706.2	2700.8	2703.5
22.5°	2893.9	2903.3	2892.5	2893.9	2900.6	2903.3	2893.9	2906.0	2902.0	2893.9	2900.6
25°	3092.4	3099.1	3093.7	3092.4	3096.4	3105.9	3104.5	3103.2	3112.6	3104.5	3108.6
27.5°	3296.3	3300.3	3303.0	3307.1	3309.8	3308.4	3313.8	3313.8	3319.2	3309.8	3313.8
30°	3498.8	3498.8	3504.3	3509.7	3509.7	3509.7	3520.5	3521.8	3513.7	3516.4	3507.0
32.5°	3714.9	3716.3	3721.7	3721.7	3732.5	3733.8	3746.0	3729.8	3746.0	3732.5	3735.2
35°	3968.8	3986.3	3989.0	4002.5	4013.3	4017.4	4017.4	4018.7	4033.6	4022.8	4026.8
37.5°	4117.3	4121.4	4132.2	4138.9	4138.9	4144.3	4148.4	4144.3	4148.4	4147.0	4151.1
40°	4292.9	4288.8	4301.0	4303.7	4298.3	4305.0	4303.7	4299.6	4310.4	4302.3	4307.7
42.5°	4506.2	4483.3	4481.9	4492.7	4481.9	4487.3	4486.0	4476.5	4490.0	4494.1	4490.0
45°	4734.5	4722.3	4698.0	4698.0	4687.2	4683.1	4684.5	4683.1	4684.5	4700.7	4706.1
47.5°	5105.8	5031.5	4989.7	4950.5	4918.1	4916.8	4901.9	4910.0	4920.8	4947.8	4972.1
50°	5728.3	5556.8	5451.5	5354.3	5284.1	5259.8	5231.4	5228.7	5238.1	5269.2	5311.1
52.5°	6838.4	6600.7	6376.5	6168.6	5987.6	5848.5	5779.6	5743.2	5729.7	5760.7	5801.3
55°	8869.3	8421.0	8105.0	7894.4	7444.7	7254.3	7009.9	6897.8	6788.4	6799.2	6868.1
57.5°	12339.8	12098.1	11833.4	11464.8	11189.3	10857.1	10246.7	9906.4	9921.3	10001.0	9752.5
60°	16887.9	16643.5	16534.1	16199.2	16007.5	15873.8	15549.7	14985.2	14785.4	14747.6	14291.1
62.5°	18615.1	18673.1	18759.6	18854.1	18848.7	18906.7	18623.2	18439.5	18208.6	17908.8	17457.8
65°	18164.0	18311.2	18486.8	18740.6	19029.6	19243.0	19422.6	19401.0	19184.9	18785.2	18308.5
67.5°	16636.7	16782.6	16910.9	17251.2	17725.2	18158.6	18542.1	18802.8	18658.3	18327.4	17771.1
70°	14341.1	14446.4	14527.4	14823.2	15343.1	15872.4	16373.4	16810.9	16766.4	16365.3	15921.0
72.5°	10391.2	10646.4	10784.2	10763.9	11085.3	11678.1	11748.4	12122.4	12226.4	11794.3	11086.7
75°	5062.6	5066.6	4907.3	4854.6	4870.8	4973.5	4777.7	4789.8	4722.3	4415.8	4163.2
77.5°	1769.0	1720.4	1604.3	1466.5	1269.4	1084.4	896.7	815.6	788.6	709.0	653.6
80°	1524.6	1596.2	1573.2	1459.8	1251.8	997.9	745.4	552.3	471.3	442.9	415.9
82.5°	1731.2	2006.7	2182.2	2172.8	1887.8	1417.9	884.5	507.7	361.9	317.3	291.7
85°	965.5	1038.4	1058.7	964.2	800.8	546.9	305.2	214.7	182.3	166.1	149.9
87.5°	153.9	140.4	137.7	120.2	113.4	104.0	91.8	86.4	79.7	75.6	75.6
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-E08-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1958.1	1956.7	1952.7	1948.6	1945.9	1944.6	1943.2	1940.5	1939.2	1937.8	1935.1
5°	2004.0	2001.3	1994.5	1987.8	1985.1	1981.0	1977.0	1974.3	1971.6	1970.2	1964.8
7.5°	2075.5	2072.8	2064.7	2059.3	2058.0	2047.2	2045.8	2041.8	2035.0	2033.7	2025.6
10°	2162.0	2160.6	2153.9	2149.8	2147.1	2141.7	2133.6	2126.9	2120.1	2120.1	2114.7
12.5°	2261.9	2256.5	2260.5	2251.1	2248.4	2243.0	2238.9	2237.6	2229.5	2222.7	2221.4
15°	2379.4	2372.6	2372.6	2369.9	2367.2	2361.8	2360.5	2361.8	2353.7	2356.4	2348.3
17.5°	2525.2	2527.9	2526.6	2526.6	2519.8	2519.8	2509.0	2522.5	2513.1	2519.8	2517.1
20°	2707.5	2708.9	2706.2	2710.2	2712.9	2711.6	2710.2	2708.9	2712.9	2718.3	2714.3
22.5°	2902.0	2902.0	2900.6	2915.5	2899.3	2911.4	2915.5	2907.4	2929.0	2926.3	2930.3
25°	3112.6	3112.6	3123.4	3135.6	3138.3	3128.8	3134.2	3127.5	3141.0	3151.8	3154.5
27.5°	3308.4	3326.0	3334.1	3326.0	3332.8	3347.6	3346.3	3346.3	3355.7	3353.0	3378.7
30°	3509.7	3520.5	3531.3	3525.9	3528.6	3547.5	3548.8	3550.2	3562.3	3579.9	3598.8
32.5°	3739.2	3750.0	3744.6	3762.2	3760.8	3783.8	3787.8	3791.9	3829.7	3822.9	3862.1
35°	4021.4	4032.3	4026.8	4045.8	4043.1	4051.2	4066.0	4082.2	4089.0	4128.1	4159.2
37.5°	4153.8	4153.8	4165.9	4187.5	4195.6	4209.2	4232.1	4252.4	4286.1	4328.0	4376.6
40°	4313.1	4317.2	4333.4	4356.3	4371.2	4402.3	4444.1	4472.5	4523.8	4569.7	4626.4
42.5°	4506.2	4523.8	4542.7	4573.8	4606.2	4654.8	4714.2	4750.7	4818.2	4877.6	4947.8
45°	4731.8	4749.3	4793.9	4850.6	4897.8	4951.9	5000.5	5086.9	5147.7	5209.8	5270.6
47.5°	5004.5	5055.8	5092.3	5159.8	5217.9	5289.5	5350.2	5431.3	5497.4	5573.0	5624.4
50°	5354.3	5417.7	5465.0	5552.8	5609.5	5689.2	5766.1	5826.9	5894.4	5968.7	6010.6
52.5°	5856.6	5921.4	5980.9	6090.2	6160.5	6214.5	6317.1	6392.7	6454.8	6508.9	6554.8
55°	6945.0	6926.1	7090.9	7302.9	7327.2	7523.0	7559.5	7622.9	7737.7	7753.9	7882.2
57.5°	10055.0	9957.7	10196.8	10507.3	10453.3	10354.8	10766.6	10792.3	10734.2	10889.5	10714.0
60°	14358.6	14188.5	14253.3	14338.4	14215.5	14157.4	14177.7	14235.8	14179.0	14116.9	13946.8
62.5°	17232.3	16970.3	16782.6	16624.6	16424.7	16280.2	16118.2	15918.3	15864.3	15637.5	15447.1
65°	17845.3	17437.5	17140.4	16842.0	16566.5	16311.3	16066.9	15895.4	15668.5	15399.8	15201.3
67.5°	17171.5	16666.5	16231.6	15798.2	15486.2	15110.8	14927.2	14647.6	14368.1	14060.2	13877.9
70°	15213.4	14686.8	14139.9	13715.9	13291.8	12827.3	12736.8	12406.0	12245.3	11825.3	11752.4
72.5°	10500.6	10149.5	9905.1	9381.1	9123.2	8885.5	8809.9	8503.4	8535.8	8075.3	8242.8
75°	3733.8	3683.9	3612.3	3316.5	3263.9	3172.1	3147.7	3126.1	3344.9	3041.1	3261.2
77.5°	641.4	637.4	600.9	583.4	617.1	595.5	600.9	590.1	653.6	663.0	648.2
80°	398.4	387.6	375.4	367.3	368.7	360.6	361.9	364.6	368.7	367.3	371.4
82.5°	272.8	263.3	257.9	252.5	260.6	263.3	270.1	276.8	287.6	294.4	302.5
85°	148.5	136.4	136.4	135.0	145.8	153.9	164.7	178.3	197.2	213.4	230.9
87.5°	75.6	72.9	74.3	77.0	86.4	93.2	106.7	118.8	135.0	152.6	168.8
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-E08-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1933.8	1933.8	1932.4	1932.4	1931.1	1929.7	1928.4	1924.3	1909.4	1895.9	1886.5
5°	1963.5	1959.4	1958.1	1954.0	1952.7	1950.0	1945.9	1941.9	1914.8	1890.5	1873.0
7.5°	2024.2	2018.8	2016.1	2012.1	2008.0	2002.6	1997.2	1993.2	1960.8	1932.4	1910.8
10°	2103.9	2101.2	2099.8	2094.4	2094.4	2086.3	2085.0	2075.5	2040.4	2014.8	1995.9
12.5°	2214.6	2209.2	2207.9	2201.1	2203.8	2201.1	2198.4	2193.0	2167.4	2137.7	2112.0
15°	2352.4	2352.4	2345.6	2340.2	2341.6	2338.9	2344.3	2337.5	2321.3	2294.3	2252.4
17.5°	2518.5	2515.8	2518.5	2514.4	2517.1	2519.8	2513.1	2514.4	2506.3	2472.6	2410.4
20°	2711.6	2707.5	2723.7	2717.0	2731.8	2718.3	2721.0	2725.1	2725.1	2680.5	2596.8
22.5°	2933.0	2930.3	2930.3	2943.8	2949.2	2950.6	2956.0	2960.0	2970.8	2914.1	2780.4
25°	3154.5	3164.0	3165.3	3182.9	3191.0	3191.0	3195.0	3209.9	3242.3	3164.0	2991.1
27.5°	3380.0	3403.0	3408.4	3420.5	3432.7	3444.8	3454.3	3465.1	3517.8	3432.7	3207.2
30°	3605.5	3631.2	3650.1	3663.6	3678.5	3708.2	3713.6	3735.2	3822.9	3719.0	3412.4
32.5°	3870.2	3906.7	3931.0	3948.5	3971.5	3999.8	4016.0	4043.1	4128.1	3958.0	3562.3
35°	4186.2	4207.8	4242.9	4272.6	4286.1	4334.7	4360.4	4367.1	4432.0	4164.6	3673.0
37.5°	4405.0	4441.4	4502.2	4544.0	4568.4	4595.4	4638.6	4666.9	4729.0	4352.3	3728.4
40°	4683.1	4738.5	4787.1	4849.2	4888.4	4908.7	4951.9	4974.8	4982.9	4513.0	3710.9
42.5°	5022.1	5072.0	5136.9	5186.8	5216.5	5239.5	5274.6	5284.1	5178.7	4588.6	3616.3
45°	5340.8	5417.7	5473.1	5509.6	5531.2	5543.3	5564.9	5566.3	5340.8	4550.8	3454.3
47.5°	5683.8	5739.1	5790.5	5816.1	5813.4	5816.1	5808.0	5802.6	5421.8	4419.8	3246.3
50°	6063.2	6099.7	6121.3	6133.5	6140.2	6114.5	6078.1	6053.8	5428.5	4233.5	3035.7
52.5°	6572.3	6618.2	6614.2	6612.8	6558.8	6534.5	6437.3	6387.3	5389.4	4014.7	2798.0
55°	7861.9	7817.4	7729.6	7772.8	7552.7	7437.9	7286.7	7146.2	5440.7	3806.7	2522.5
57.5°	10784.2	10801.7	10551.9	10418.2	10046.9	9582.3	9208.3	8845.0	5902.5	3679.8	2163.3
60°	13833.3	13603.8	13286.4	12803.0	12325.0	11634.9	10969.2	10339.9	6363.0	3547.5	1737.9
62.5°	15164.8	14838.0	14358.6	13733.4	12982.6	12138.6	11309.5	10542.5	6140.2	3119.4	1264.0
65°	14894.8	14395.1	13865.8	13133.8	12221.0	11296.0	10327.7	9544.5	5136.9	2326.7	779.2
67.5°	13482.2	13058.2	12499.2	11630.9	10654.5	9691.7	8804.5	7926.8	3816.2	1450.3	436.2
70°	11379.7	10965.1	10398.0	9509.4	8534.4	7613.5	6673.6	5957.9	2432.0	699.5	314.6
72.5°	7894.4	7558.1	7157.0	6523.7	5668.9	4831.7	4195.6	3646.0	1347.7	371.4	287.6
75°	3205.8	3207.2	3134.2	2866.9	2422.6	2089.0	1781.2	1511.1	563.1	316.0	283.6
77.5°	726.5	738.7	807.5	765.7	690.0	645.5	578.0	510.4	343.0	325.4	286.3
80°	367.3	368.7	364.6	366.0	361.9	363.3	357.9	353.8	321.4	334.9	286.3
82.5°	306.5	313.3	311.9	311.9	313.3	313.3	313.3	311.9	333.5	352.5	276.8
85°	243.1	256.6	267.4	278.2	290.3	298.4	302.5	306.5	324.1	347.0	251.2
87.5°	183.7	199.9	213.4	224.2	243.1	243.1	256.6	266.0	266.0	271.4	132.3
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: P159358

CATALOG NUMBER: VST-E08-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1873.0	1867.6	1862.2	1859.5	1854.1
5°	1859.5	1848.7	1841.9	1841.9	1836.5
7.5°	1898.6	1894.6	1885.1	1879.7	1885.1
10°	1982.4	1975.6	1964.8	1956.7	1960.8
12.5°	2094.4	2067.4	2045.8	2036.4	2029.6
15°	2210.6	2156.6	2113.4	2089.0	2082.3
17.5°	2334.8	2240.3	2175.5	2139.0	2132.3
20°	2461.8	2344.3	2252.4	2205.2	2203.8
22.5°	2614.3	2457.7	2340.2	2278.1	2274.0
25°	2775.0	2559.0	2403.7	2324.0	2315.9
27.5°	2914.1	2640.0	2442.8	2348.3	2340.2
30°	3030.3	2700.8	2475.3	2365.9	2355.1
32.5°	3114.0	2735.9	2488.8	2371.3	2359.1
35°	3141.0	2722.4	2450.9	2322.7	2309.2
37.5°	3104.5	2634.6	2345.6	2203.8	2187.6
40°	2995.2	2480.7	2174.1	2028.3	2008.0
42.5°	2827.7	2291.6	1967.5	1828.4	1802.8
45°	2621.1	2078.2	1762.3	1607.0	1594.8
47.5°	2405.0	1854.1	1531.3	1390.9	1376.0
50°	2171.4	1594.8	1305.8	1153.2	1153.2
52.5°	1893.2	1342.3	1043.8	929.1	919.6
55°	1573.2	1057.4	831.8	744.1	731.9
57.5°	1228.9	812.9	664.4	613.1	599.6
60°	903.4	610.4	534.8	506.4	501.0
62.5°	613.1	464.5	430.8	418.6	417.3
65°	414.6	361.9	352.5	348.4	349.7
67.5°	318.7	301.1	297.1	295.7	295.7
70°	276.8	266.0	262.0	263.3	262.0
72.5°	260.6	245.8	247.1	249.8	248.5
75°	255.2	236.3	241.7	243.1	237.7
77.5°	251.2	225.5	239.0	243.1	228.2
80°	243.1	216.1	248.5	249.8	224.2
82.5°	222.8	191.8	248.5	229.6	202.6
85°	189.1	145.8	280.9	199.9	149.9
87.5°	120.2	86.4	190.4	136.4	90.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)