

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: P159350

Luminaire Tested: **VST-E07-LED-E-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159350
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-E07-LED-E-U-T2
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (147) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21607 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 172.5
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



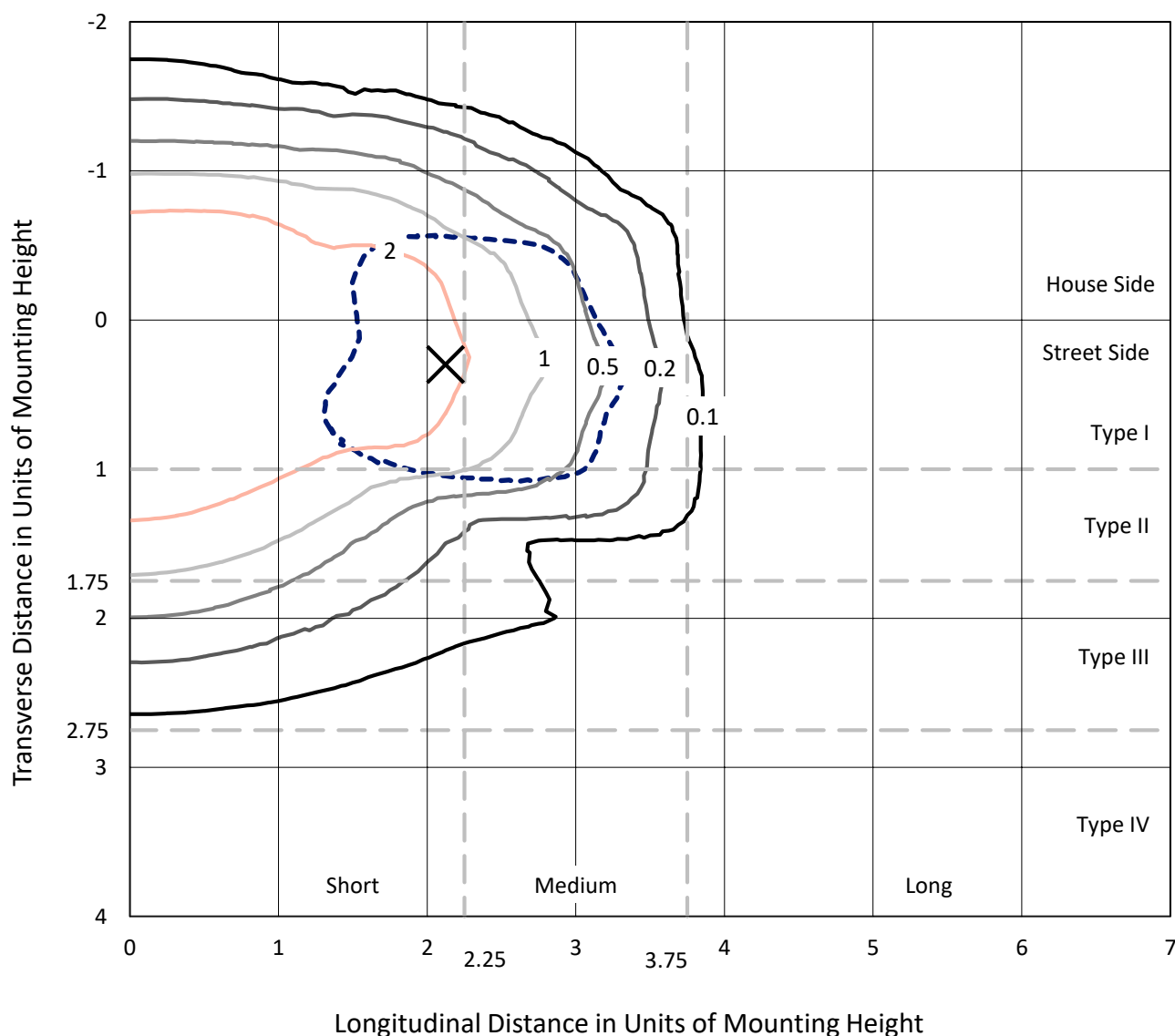
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

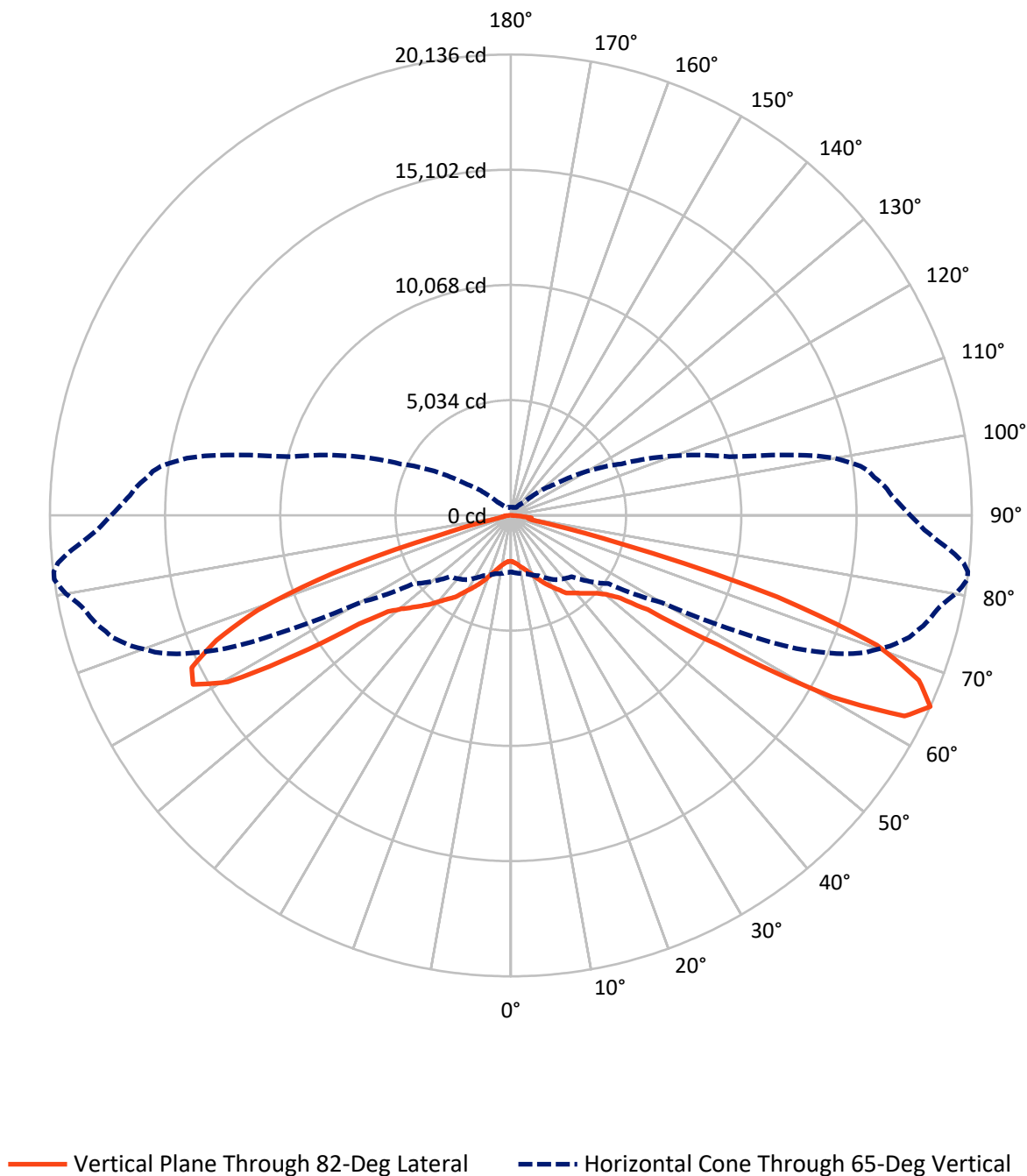


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8045.0	0.0	8045.0
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	13562.0	0.0	13562.0
	% Fixture	62.8	0.0	62.8
Total	Lumens	21607.0	0.0	21607.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.5	0.9
10°-20°	715.1	3.3
20°-30°	1417.0	6.6
30°-40°	2429.1	11.2
40°-50°	3649.1	16.9
50°-60°	5069.7	23.5
60°-70°	5783.8	26.8
70°-80°	1992.4	9.2
80°-90°	347.3	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°	21607.0	100.0
0°-180°	21607.0	100.0

Coefficient of Utilization



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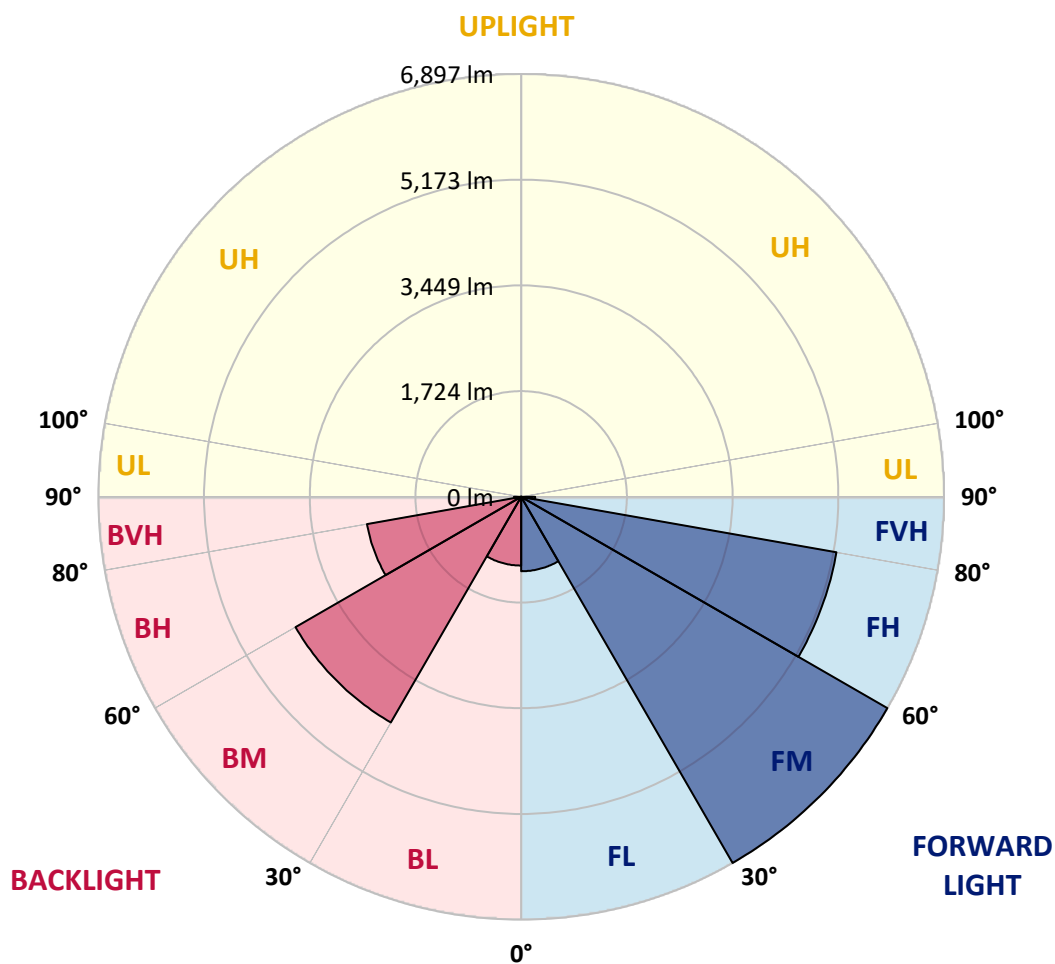
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1213.9	5.6			
FM	(30°-60°)	6897.4	31.9			
FH	(60°-80°)	5222.2	24.2			G3/7500
FVH	(80°-90°)	228.6	1.1			G3/500
BL	(0°-30°)	1121.8	5.2	B3/2500		
BM	(30°-60°)	4250.4	19.7	B3/5000		
BH	(60°-80°)	2554.1	11.8	B4/5000		G4/5000
BVH	(80°-90°)	118.7	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°	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4
2.5°	2119.6	2121.0	2119.6	2115.4	2114.0	2101.4	2087.4	2080.4	2079.0	2073.4	2074.8
5°	2251.2	2247.0	2241.4	2234.4	2227.4	2206.4	2182.6	2170.0	2165.8	2161.6	2156.0
7.5°	2368.8	2371.6	2368.8	2359.0	2340.8	2314.2	2283.4	2263.8	2262.4	2258.2	2254.0
10°	2520.0	2527.0	2510.2	2493.4	2468.2	2427.6	2392.6	2367.4	2363.2	2357.6	2354.8
12.5°	2683.8	2685.2	2679.6	2641.8	2599.8	2543.8	2493.4	2468.2	2462.6	2455.6	2452.8
15°	2858.8	2860.2	2829.4	2793.0	2728.6	2661.4	2591.4	2563.4	2556.4	2557.8	2546.6
17.5°	2997.4	3000.2	2970.8	2924.6	2847.6	2767.8	2692.2	2669.8	2665.6	2667.0	2661.4
20°	3057.6	3061.8	3043.6	3008.6	2935.8	2865.8	2811.2	2797.2	2795.8	2793.0	2804.2
22.5°	3054.8	3056.2	3049.2	3035.2	2991.8	2951.2	2944.2	2952.6	2951.2	2954.0	2963.8
25°	3029.6	3033.8	3032.4	3038.0	3031.0	3046.4	3078.6	3108.0	3112.2	3117.8	3136.0
27.5°	3094.0	3102.4	3092.6	3098.2	3109.4	3161.2	3227.0	3271.8	3280.2	3295.6	3311.0
30°	3346.0	3334.8	3322.2	3308.2	3315.2	3347.4	3421.6	3460.8	3465.0	3476.2	3497.2
32.5°	3719.8	3707.2	3696.0	3673.6	3668.0	3654.0	3679.2	3689.0	3687.6	3698.8	3704.4
35°	4141.2	4142.6	4139.8	4156.6	4170.6	4099.2	4011.0	3987.2	3997.0	3984.4	3987.2
37.5°	4501.0	4505.2	4579.4	4671.8	4698.4	4653.6	4460.4	4365.2	4333.0	4328.8	4296.6
40°	4900.0	4900.0	5012.0	5125.4	5199.6	5255.6	5026.0	4858.0	4789.4	4769.8	4690.0
42.5°	5338.2	5315.8	5418.0	5542.6	5679.8	5807.2	5688.2	5499.2	5401.2	5366.2	5226.2
45°	5698.0	5684.0	5734.4	5850.6	6073.2	6322.4	6339.2	6242.6	6183.8	6111.0	5982.2
47.5°	5919.2	5912.2	5941.6	6067.6	6346.2	6749.4	6974.8	7023.8	6988.8	6932.8	6808.2
50°	6006.0	5996.2	6017.2	6157.2	6469.4	7001.4	7499.8	7730.8	7747.6	7760.2	7721.0
52.5°	5975.2	5962.6	6006.0	6123.6	6448.4	7089.6	7910.0	8353.8	8428.0	8491.0	8619.8
55°	5679.8	5660.2	5777.8	5999.0	6357.4	7057.4	8209.6	8953.0	9109.8	9277.8	9563.4
57.5°	5227.6	5210.8	5380.2	5684.0	6196.4	6969.2	8411.2	9710.4	10063.2	10365.6	11176.2
60°	4792.2	4778.2	4877.6	5171.6	5674.2	6539.4	8162.0	9965.2	10557.4	11209.8	12689.6
62.5°	4013.8	3976.0	4109.0	4356.8	4674.6	5409.6	7074.2	9398.2	10311.0	11270.0	13276.2
65°	2466.8	2521.4	2636.2	2910.6	3431.4	3781.4	5195.4	7603.4	8807.4	10010.0	12612.6
67.5°	1566.6	1582.0	1667.4	1857.8	2261.0	2612.4	3148.6	4771.2	5699.4	6882.4	9902.2
70°	1342.6	1352.4	1425.2	1624.0	1902.6	2335.2	2382.8	2492.0	2825.2	3578.4	5821.2
72.5°	1058.4	1075.2	1132.6	1304.8	1640.8	2105.6	2941.4	1969.8	1902.6	1965.6	2840.6
75°	630.0	649.6	697.2	791.0	1054.2	1610.0	3081.4	2291.8	2136.4	2014.6	1960.0
77.5°	333.2	319.2	351.4	406.0	541.8	858.2	2315.6	2808.4	2699.2	2553.6	2244.2
80°	165.2	170.8	180.6	191.8	242.2	348.6	1157.8	2905.0	3220.0	3360.0	3085.6
82.5°	65.8	74.2	105.0	112.0	133.0	148.4	372.4	1610.0	2305.8	3127.6	4083.8
85°	33.6	32.2	56.0	67.2	78.4	70.0	131.6	600.6	1080.8	1684.2	2728.6
87.5°	4.2	5.6	12.6	16.8	23.8	22.4	37.8	130.2	207.2	294.0	413.0
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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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4
2.5°	2067.8	2066.4	2066.4	2060.8	2060.8	2062.2	2058.0	2055.2	2055.2	2056.6	2051.0
5°	2151.8	2147.6	2147.6	2142.0	2135.0	2135.0	2129.4	2128.0	2125.2	2119.6	2115.4
7.5°	2249.8	2245.6	2238.6	2234.4	2231.6	2227.4	2220.4	2217.6	2212.0	2206.4	2200.8
10°	2350.6	2345.0	2342.2	2335.2	2332.4	2324.0	2319.8	2321.2	2310.0	2305.8	2307.2
12.5°	2451.4	2445.8	2436.0	2433.2	2431.8	2423.4	2419.2	2416.4	2408.0	2406.6	2402.4
15°	2541.0	2543.8	2539.6	2532.6	2527.0	2525.6	2521.4	2518.6	2513.0	2507.4	2501.8
17.5°	2657.2	2661.4	2655.8	2646.0	2646.0	2644.6	2646.0	2644.6	2634.8	2639.0	2636.2
20°	2805.6	2808.4	2794.4	2798.6	2801.4	2800.0	2804.2	2808.4	2805.6	2805.6	2809.8
22.5°	2976.4	2980.6	2972.2	2977.8	2986.2	2979.2	2991.8	2990.4	2993.2	2997.4	2998.8
25°	3151.4	3159.8	3152.8	3168.2	3162.6	3168.2	3183.6	3179.4	3186.4	3197.6	3201.8
27.5°	3326.4	3332.0	3333.4	3343.2	3353.0	3361.4	3381.0	3381.0	3386.6	3406.2	3406.2
30°	3509.8	3515.4	3521.0	3535.0	3540.6	3556.0	3575.6	3581.2	3578.4	3606.4	3614.8
32.5°	3721.2	3726.8	3736.6	3753.4	3760.4	3775.8	3775.8	3791.2	3802.4	3826.2	3827.6
35°	4002.6	4006.8	4002.6	4001.2	4011.0	4032.0	4033.4	4055.8	4065.6	4089.4	4096.4
37.5°	4284.0	4282.6	4264.4	4244.8	4246.2	4237.8	4232.2	4242.0	4246.2	4247.6	4263.0
40°	4663.4	4627.0	4599.0	4550.0	4527.6	4492.6	4471.6	4470.2	4447.8	4445.0	4449.2
42.5°	5160.4	5118.4	5052.6	4970.0	4907.0	4842.6	4795.0	4767.0	4718.0	4692.8	4671.8
45°	5854.8	5751.2	5672.8	5574.8	5453.0	5341.0	5223.4	5170.2	5076.4	5019.0	4954.6
47.5°	6703.2	6601.0	6480.6	6379.8	6220.2	6064.8	5903.8	5762.4	5598.6	5468.4	5362.0
50°	7624.4	7564.2	7477.4	7383.6	7177.8	7075.6	6872.6	6680.8	6504.4	6272.0	6069.0
52.5°	8569.4	8604.4	8584.8	8551.2	8421.0	8381.8	8206.8	7973.0	7795.2	7635.6	7282.8
55°	9734.2	9776.2	9860.2	9909.2	9893.8	9993.2	9949.8	9767.8	9696.4	9622.2	9371.6
57.5°	11516.4	11816.0	12136.6	12418.0	12483.8	12836.6	12761.0	12943.0	13071.8	12979.4	12898.2
60°	13416.2	14021.0	14565.6	15135.4	15598.8	15946.0	16405.2	16714.6	16909.2	17259.2	17287.2
62.5°	14182.0	15003.8	15695.4	16356.2	16906.4	17388.0	17802.4	18229.4	18579.4	18895.8	19124.0
65°	13762.0	14620.2	15458.8	16129.4	16658.6	17073.0	17523.8	17862.6	18207.0	18410.0	18649.4
67.5°	11440.8	12577.6	13609.4	14365.4	15089.2	15510.6	16044.0	16377.2	16742.6	16956.8	17110.8
70°	7459.2	8939.0	10348.8	11495.4	12472.6	12964.0	13608.0	14063.0	14502.6	14513.8	14770.0
72.5°	4025.0	5262.6	6442.8	7614.6	8729.0	9382.8	10018.4	10571.4	11008.2	10822.0	11076.8
75°	2241.4	2821.0	3466.4	4170.6	4849.6	5223.4	5698.0	5700.8	5926.2	5572.0	5661.6
77.5°	2156.0	2129.4	2139.2	2158.8	2192.4	2121.0	2119.6	2076.2	2009.0	1887.2	1908.2
80°	2832.2	2493.4	2249.8	1867.6	1503.6	1226.4	1149.4	1167.6	1222.2	1331.4	1470.0
82.5°	4095.0	3809.4	3400.6	2798.6	2196.6	1694.0	1391.6	1234.8	1227.8	1337.0	1547.0
85°	2982.0	3154.2	3127.6	2611.0	2153.2	1748.6	1272.6	1075.2	890.4	847.0	921.2
87.5°	439.6	364.0	410.2	343.0	249.2	193.2	169.4	135.8	130.2	133.0	145.6
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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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4
2.5°	2052.4	2046.8	2041.2	2045.4	2041.2	2039.8	2035.6	2032.8	2031.4	2031.4	2031.4
5°	2115.4	2108.4	2104.2	2102.8	2098.6	2094.4	2093.0	2086.0	2084.6	2084.6	2080.4
7.5°	2200.8	2195.2	2188.2	2184.0	2181.2	2174.2	2167.2	2165.8	2164.4	2158.8	2154.6
10°	2300.2	2291.8	2283.4	2283.4	2277.8	2276.4	2269.4	2259.6	2258.2	2249.8	2247.0
12.5°	2394.0	2391.2	2381.4	2378.6	2374.4	2370.2	2366.0	2361.8	2357.6	2350.6	2353.4
15°	2506.0	2499.0	2490.6	2492.0	2490.6	2485.0	2479.4	2475.2	2472.4	2469.6	2469.6
17.5°	2640.4	2637.6	2636.2	2629.2	2623.6	2627.8	2627.8	2627.8	2620.8	2622.2	2623.6
20°	2811.2	2814.0	2811.2	2805.6	2804.2	2808.4	2798.6	2814.0	2805.6	2800.0	2802.8
22.5°	3000.2	3010.0	2998.8	3000.2	3007.2	3010.0	3000.2	3012.8	3008.6	3000.2	3007.2
25°	3206.0	3213.0	3207.4	3206.0	3210.2	3220.0	3218.6	3217.2	3227.0	3218.6	3222.8
27.5°	3417.4	3421.6	3424.4	3428.6	3431.4	3430.0	3435.6	3435.6	3441.2	3431.4	3435.6
30°	3627.4	3627.4	3633.0	3638.6	3638.6	3638.6	3649.8	3651.2	3642.8	3645.6	3635.8
32.5°	3851.4	3852.8	3858.4	3858.4	3869.6	3871.0	3883.6	3866.8	3883.6	3869.6	3872.4
35°	4114.6	4132.8	4135.6	4149.6	4160.8	4165.0	4165.0	4166.4	4181.8	4170.6	4174.8
37.5°	4268.6	4272.8	4284.0	4291.0	4291.0	4296.6	4300.8	4296.6	4300.8	4299.4	4303.6
40°	4450.6	4446.4	4459.0	4461.8	4456.2	4463.2	4461.8	4457.6	4468.8	4460.4	4466.0
42.5°	4671.8	4648.0	4646.6	4657.8	4646.6	4652.2	4650.8	4641.0	4655.0	4659.2	4655.0
45°	4908.4	4895.8	4870.6	4870.6	4859.4	4855.2	4856.6	4855.2	4856.6	4873.4	4879.0
47.5°	5293.4	5216.4	5173.0	5132.4	5098.8	5097.4	5082.0	5090.4	5101.6	5129.6	5154.8
50°	5938.8	5761.0	5651.8	5551.0	5478.2	5453.0	5423.6	5420.8	5430.6	5462.8	5506.2
52.5°	7089.6	6843.2	6610.8	6395.2	6207.6	6063.4	5992.0	5954.2	5940.2	5972.4	6014.4
55°	9195.2	8730.4	8402.8	8184.4	7718.2	7520.8	7267.4	7151.2	7037.8	7049.0	7120.4
57.5°	12793.2	12542.6	12268.2	11886.0	11600.4	11256.0	10623.2	10270.4	10285.8	10368.4	10110.8
60°	17508.4	17255.0	17141.6	16794.4	16595.6	16457.0	16121.0	15535.8	15328.6	15289.4	14816.2
62.5°	19299.0	19359.2	19448.8	19546.8	19541.2	19601.4	19307.4	19117.0	18877.6	18566.8	18099.2
65°	18831.4	18984.0	19166.0	19429.2	19728.8	19950.0	20136.2	20113.8	19889.8	19475.4	18981.2
67.5°	17248.0	17399.2	17532.2	17885.0	18376.4	18825.8	19223.4	19493.6	19343.8	19000.8	18424.0
70°	14868.0	14977.2	15061.2	15367.8	15906.8	16455.6	16975.0	17428.6	17382.4	16966.6	16506.0
72.5°	10773.0	11037.6	11180.4	11159.4	11492.6	12107.2	12180.0	12567.8	12675.6	12227.6	11494.0
75°	5248.6	5252.8	5087.6	5033.0	5049.8	5156.2	4953.2	4965.8	4895.8	4578.0	4316.2
77.5°	1834.0	1783.6	1663.2	1520.4	1316.0	1124.2	929.6	845.6	817.6	735.0	677.6
80°	1580.6	1654.8	1631.0	1513.4	1297.8	1034.6	772.8	572.6	488.6	459.2	431.2
82.5°	1794.8	2080.4	2262.4	2252.6	1957.2	1470.0	917.0	526.4	375.2	329.0	302.4
85°	1001.0	1076.6	1097.6	999.6	830.2	567.0	316.4	222.6	189.0	172.2	155.4
87.5°	159.6	145.6	142.8	124.6	117.6	107.8	95.2	89.6	82.6	78.4	78.4
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: P159350

CATALOG NUMBER: VST-E07-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4
2.5°	2030.0	2028.6	2024.4	2020.2	2017.4	2016.0	2014.6	2011.8	2010.4	2009.0	2006.2
5°	2077.6	2074.8	2067.8	2060.8	2058.0	2053.8	2049.6	2046.8	2044.0	2042.6	2037.0
7.5°	2151.8	2149.0	2140.6	2135.0	2133.6	2122.4	2121.0	2116.8	2109.8	2108.4	2100.0
10°	2241.4	2240.0	2233.0	2228.8	2226.0	2220.4	2212.0	2205.0	2198.0	2198.0	2192.4
12.5°	2345.0	2339.4	2343.6	2333.8	2331.0	2325.4	2321.2	2319.8	2311.4	2304.4	2303.0
15°	2466.8	2459.8	2459.8	2457.0	2454.2	2448.6	2447.2	2448.6	2440.2	2443.0	2434.6
17.5°	2618.0	2620.8	2619.4	2619.4	2612.4	2612.4	2601.2	2615.2	2605.4	2612.4	2609.6
20°	2807.0	2808.4	2805.6	2809.8	2812.6	2811.2	2809.8	2808.4	2812.6	2818.2	2814.0
22.5°	3008.6	3008.6	3007.2	3022.6	3005.8	3018.4	3022.6	3014.2	3036.6	3033.8	3038.0
25°	3227.0	3227.0	3238.2	3250.8	3253.6	3243.8	3249.4	3242.4	3256.4	3267.6	3270.4
27.5°	3430.0	3448.2	3456.6	3448.2	3455.2	3470.6	3469.2	3469.2	3479.0	3476.2	3502.8
30°	3638.6	3649.8	3661.0	3655.4	3658.2	3677.8	3679.2	3680.6	3693.2	3711.4	3731.0
32.5°	3876.6	3887.8	3882.2	3900.4	3899.0	3922.8	3927.0	3931.2	3970.4	3963.4	4004.0
35°	4169.2	4180.4	4174.8	4194.4	4191.6	4200.0	4215.4	4232.2	4239.2	4279.8	4312.0
37.5°	4306.4	4306.4	4319.0	4341.4	4349.8	4363.8	4387.6	4408.6	4443.6	4487.0	4537.4
40°	4471.6	4475.8	4492.6	4516.4	4531.8	4564.0	4607.4	4636.8	4690.0	4737.6	4796.4
42.5°	4671.8	4690.0	4709.6	4741.8	4775.4	4825.8	4887.4	4925.2	4995.2	5056.8	5129.6
45°	4905.6	4923.8	4970.0	5028.8	5077.8	5133.8	5184.2	5273.8	5336.8	5401.2	5464.2
47.5°	5188.4	5241.6	5279.4	5349.4	5409.6	5483.8	5546.8	5630.8	5699.4	5777.8	5831.0
50°	5551.0	5616.8	5665.8	5756.8	5815.6	5898.2	5978.0	6041.0	6111.0	6188.0	6231.4
52.5°	6071.8	6139.0	6200.6	6314.0	6386.8	6442.8	6549.2	6627.6	6692.0	6748.0	6795.6
55°	7200.2	7180.6	7351.4	7571.2	7596.4	7799.4	7837.2	7903.0	8022.0	8038.8	8171.8
57.5°	10424.4	10323.6	10571.4	10893.4	10837.4	10735.2	11162.2	11188.8	11128.6	11289.6	11107.6
60°	14886.2	14709.8	14777.0	14865.2	14737.8	14677.6	14698.6	14758.8	14700.0	14635.6	14459.2
62.5°	17865.4	17593.8	17399.2	17235.4	17028.2	16878.4	16710.4	16503.2	16447.2	16212.0	16014.6
65°	18501.0	18078.2	17770.2	17460.8	17175.2	16910.6	16657.2	16479.4	16244.2	15965.6	15759.8
67.5°	17802.4	17278.8	16828.0	16378.6	16055.2	15666.0	15475.6	15185.8	14896.0	14576.8	14387.8
70°	15772.4	15226.4	14659.4	14219.8	13780.2	13298.6	13204.8	12861.8	12695.2	12259.8	12184.2
72.5°	10886.4	10522.4	10269.0	9725.8	9458.4	9212.0	9133.6	8815.8	8849.4	8372.0	8545.6
75°	3871.0	3819.2	3745.0	3438.4	3383.8	3288.6	3263.4	3241.0	3467.8	3152.8	3381.0
77.5°	665.0	660.8	623.0	604.8	639.8	617.4	623.0	611.8	677.6	687.4	672.0
80°	413.0	401.8	389.2	380.8	382.2	373.8	375.2	378.0	382.2	380.8	385.0
82.5°	282.8	273.0	267.4	261.8	270.2	273.0	280.0	287.0	298.2	305.2	313.6
85°	154.0	141.4	141.4	140.0	151.2	159.6	170.8	184.8	204.4	221.2	239.4
87.5°	78.4	75.6	77.0	79.8	89.6	96.6	110.6	123.2	140.0	158.2	175.0
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: P159350

CATALOG NUMBER: VST-E07-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4	2010.4
2.5°	2004.8	2004.8	2003.4	2003.4	2002.0	2000.6	1999.2	1995.0	1979.6	1965.6	1955.8
5°	2035.6	2031.4	2030.0	2025.8	2024.4	2021.6	2017.4	2013.2	1985.2	1960.0	1941.8
7.5°	2098.6	2093.0	2090.2	2086.0	2081.8	2076.2	2070.6	2066.4	2032.8	2003.4	1981.0
10°	2181.2	2178.4	2177.0	2171.4	2171.4	2163.0	2161.6	2151.8	2115.4	2088.8	2069.2
12.5°	2296.0	2290.4	2289.0	2282.0	2284.8	2282.0	2279.2	2273.6	2247.0	2216.2	2189.6
15°	2438.8	2438.8	2431.8	2426.2	2427.6	2424.8	2430.4	2423.4	2406.6	2378.6	2335.2
17.5°	2611.0	2608.2	2611.0	2606.8	2609.6	2612.4	2605.4	2606.8	2598.4	2563.4	2499.0
20°	2811.2	2807.0	2823.8	2816.8	2832.2	2818.2	2821.0	2825.2	2825.2	2779.0	2692.2
22.5°	3040.8	3038.0	3038.0	3052.0	3057.6	3059.0	3064.6	3068.8	3080.0	3021.2	2882.6
25°	3270.4	3280.2	3281.6	3299.8	3308.2	3308.2	3312.4	3327.8	3361.4	3280.2	3101.0
27.5°	3504.2	3528.0	3533.6	3546.2	3558.8	3571.4	3581.2	3592.4	3647.0	3558.8	3325.0
30°	3738.0	3764.6	3784.2	3798.2	3813.6	3844.4	3850.0	3872.4	3963.4	3855.6	3537.8
32.5°	4012.4	4050.2	4075.4	4093.6	4117.4	4146.8	4163.6	4191.6	4279.8	4103.4	3693.2
35°	4340.0	4362.4	4398.8	4429.6	4443.6	4494.0	4520.6	4527.6	4594.8	4317.6	3808.0
37.5°	4566.8	4604.6	4667.6	4711.0	4736.2	4764.2	4809.0	4838.4	4902.8	4512.2	3865.4
40°	4855.2	4912.6	4963.0	5027.4	5068.0	5089.0	5133.8	5157.6	5166.0	4678.8	3847.2
42.5°	5206.6	5258.4	5325.6	5377.4	5408.2	5432.0	5468.4	5478.2	5369.0	4757.2	3749.2
45°	5537.0	5616.8	5674.2	5712.0	5734.4	5747.0	5769.4	5770.8	5537.0	4718.0	3581.2
47.5°	5892.6	5950.0	6003.2	6029.8	6027.0	6029.8	6021.4	6015.8	5621.0	4582.2	3365.6
50°	6286.0	6323.8	6346.2	6358.8	6365.8	6339.2	6301.4	6276.2	5628.0	4389.0	3147.2
52.5°	6813.8	6861.4	6857.2	6855.8	6799.8	6774.6	6673.8	6622.0	5587.4	4162.2	2900.8
55°	8150.8	8104.6	8013.6	8058.4	7830.2	7711.2	7554.4	7408.8	5640.6	3946.6	2615.2
57.5°	11180.4	11198.6	10939.6	10801.0	10416.0	9934.4	9546.6	9170.0	6119.4	3815.0	2242.8
60°	14341.6	14103.6	13774.6	13273.4	12777.8	12062.4	11372.2	10719.8	6596.8	3677.8	1801.8
62.5°	15722.0	15383.2	14886.2	14238.0	13459.6	12584.6	11725.0	10929.8	6365.8	3234.0	1310.4
65°	15442.0	14924.0	14375.2	13616.4	12670.0	11711.0	10707.2	9895.2	5325.6	2412.2	807.8
67.5°	13977.6	13538.0	12958.4	12058.2	11046.0	10047.8	9128.0	8218.0	3956.4	1503.6	452.2
70°	11797.8	11368.0	10780.0	9858.8	8848.0	7893.2	6918.8	6176.8	2521.4	725.2	326.2
72.5°	8184.4	7835.8	7420.0	6763.4	5877.2	5009.2	4349.8	3780.0	1397.2	385.0	298.2
75°	3323.6	3325.0	3249.4	2972.2	2511.6	2165.8	1846.6	1566.6	583.8	327.6	294.0
77.5°	753.2	765.8	837.2	793.8	715.4	669.2	599.2	529.2	355.6	337.4	296.8
80°	380.8	382.2	378.0	379.4	375.2	376.6	371.0	366.8	333.2	347.2	296.8
82.5°	317.8	324.8	323.4	323.4	324.8	324.8	324.8	323.4	345.8	365.4	287.0
85°	252.0	266.0	277.2	288.4	301.0	309.4	313.6	317.8	336.0	359.8	260.4
87.5°	190.4	207.2	221.2	232.4	252.0	252.0	266.0	275.8	275.8	281.4	137.2
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: P159350

CATALOG NUMBER: VST-E07-LED-E-U-T2

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	2010.4	2010.4	2010.4	2010.4	2010.4
2.5°	1941.8	1936.2	1930.6	1927.8	1922.2
5°	1927.8	1916.6	1909.6	1909.6	1904.0
7.5°	1968.4	1964.2	1954.4	1948.8	1954.4
10°	2055.2	2048.2	2037.0	2028.6	2032.8
12.5°	2171.4	2143.4	2121.0	2111.2	2104.2
15°	2291.8	2235.8	2191.0	2165.8	2158.8
17.5°	2420.6	2322.6	2255.4	2217.6	2210.6
20°	2552.2	2430.4	2335.2	2286.2	2284.8
22.5°	2710.4	2548.0	2426.2	2361.8	2357.6
25°	2877.0	2653.0	2492.0	2409.4	2401.0
27.5°	3021.2	2737.0	2532.6	2434.6	2426.2
30°	3141.6	2800.0	2566.2	2452.8	2441.6
32.5°	3228.4	2836.4	2580.2	2458.4	2445.8
35°	3256.4	2822.4	2541.0	2408.0	2394.0
37.5°	3218.6	2731.4	2431.8	2284.8	2268.0
40°	3105.2	2571.8	2254.0	2102.8	2081.8
42.5°	2931.6	2375.8	2039.8	1895.6	1869.0
45°	2717.4	2154.6	1827.0	1666.0	1653.4
47.5°	2493.4	1922.2	1587.6	1442.0	1426.6
50°	2251.2	1653.4	1353.8	1195.6	1195.6
52.5°	1962.8	1391.6	1082.2	963.2	953.4
55°	1631.0	1096.2	862.4	771.4	758.8
57.5°	1274.0	842.8	688.8	635.6	621.6
60°	936.6	632.8	554.4	525.0	519.4
62.5°	635.6	481.6	446.6	434.0	432.6
65°	429.8	375.2	365.4	361.2	362.6
67.5°	330.4	312.2	308.0	306.6	306.6
70°	287.0	275.8	271.6	273.0	271.6
72.5°	270.2	254.8	256.2	259.0	257.6
75°	264.6	245.0	250.6	252.0	246.4
77.5°	260.4	233.8	247.8	252.0	236.6
80°	252.0	224.0	257.6	259.0	232.4
82.5°	231.0	198.8	257.6	238.0	210.0
85°	196.0	151.2	291.2	207.2	155.4
87.5°	124.6	89.6	197.4	141.4	93.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)