

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: P158938

Luminaire Tested: **VST-E10-LED-E-U-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158938
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E10-LED-E-U-SLL-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (210) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22680.4 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.7
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



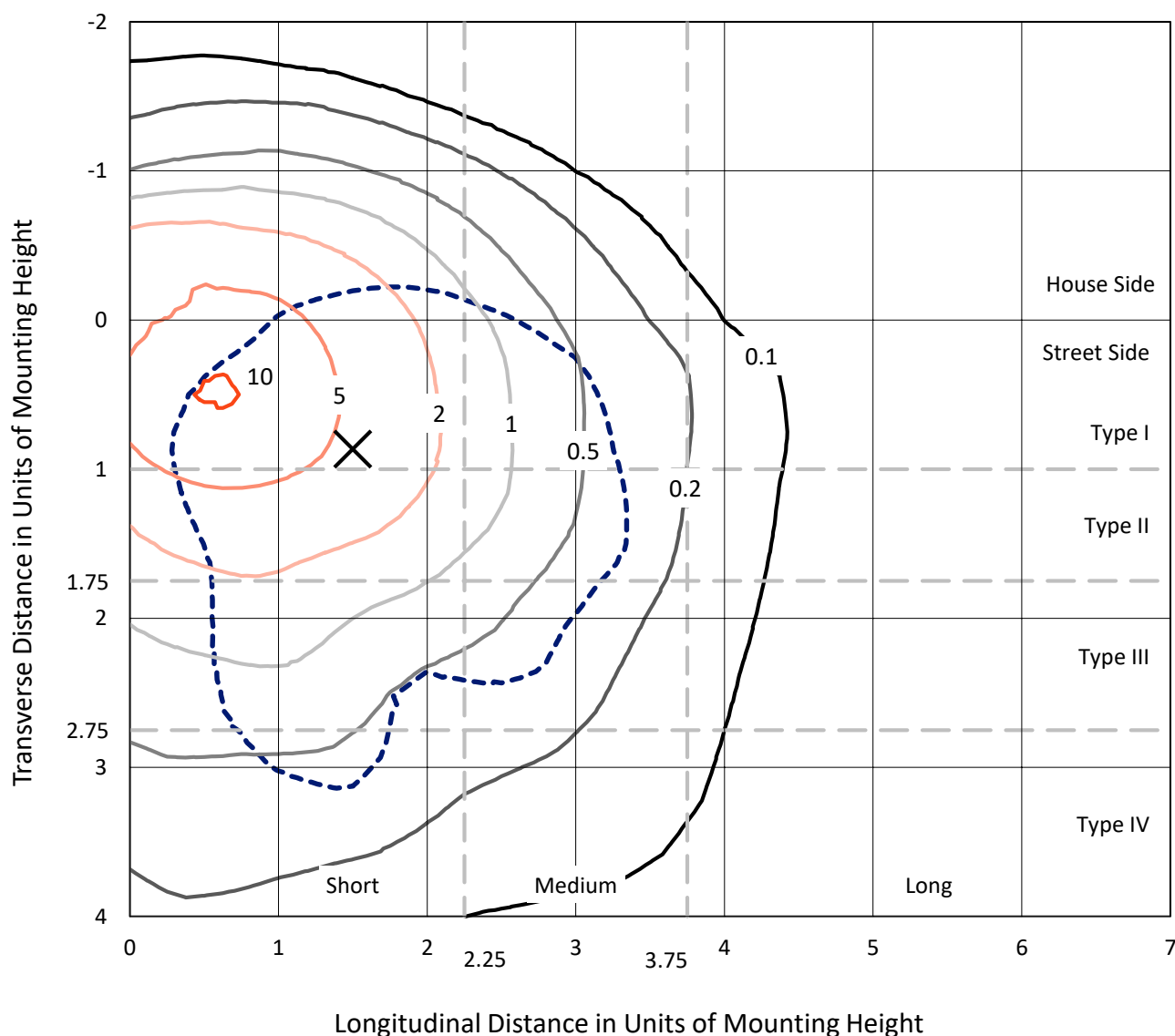
REPORT NUMBER: P158938

CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

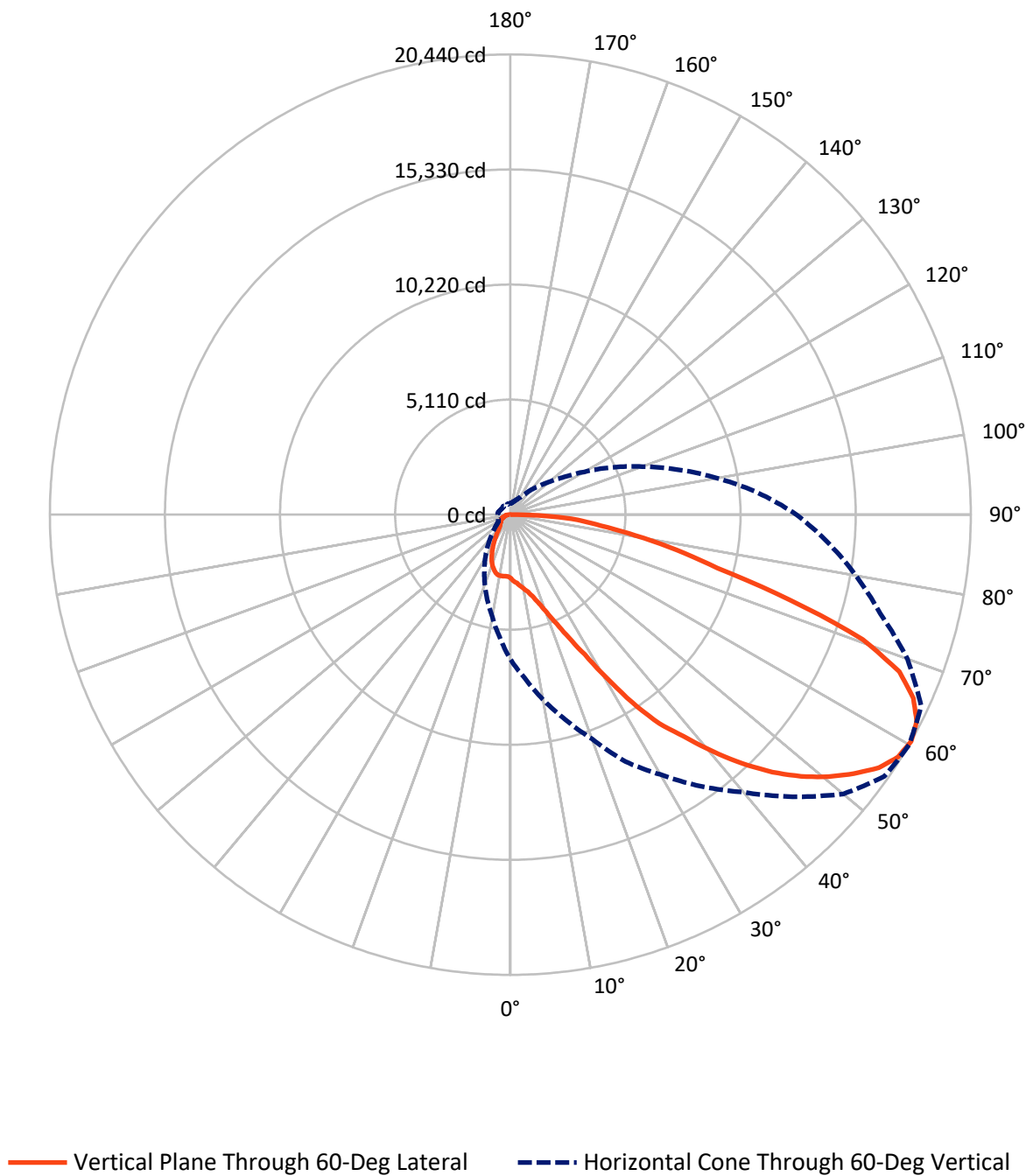


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158938

CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P158938

CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

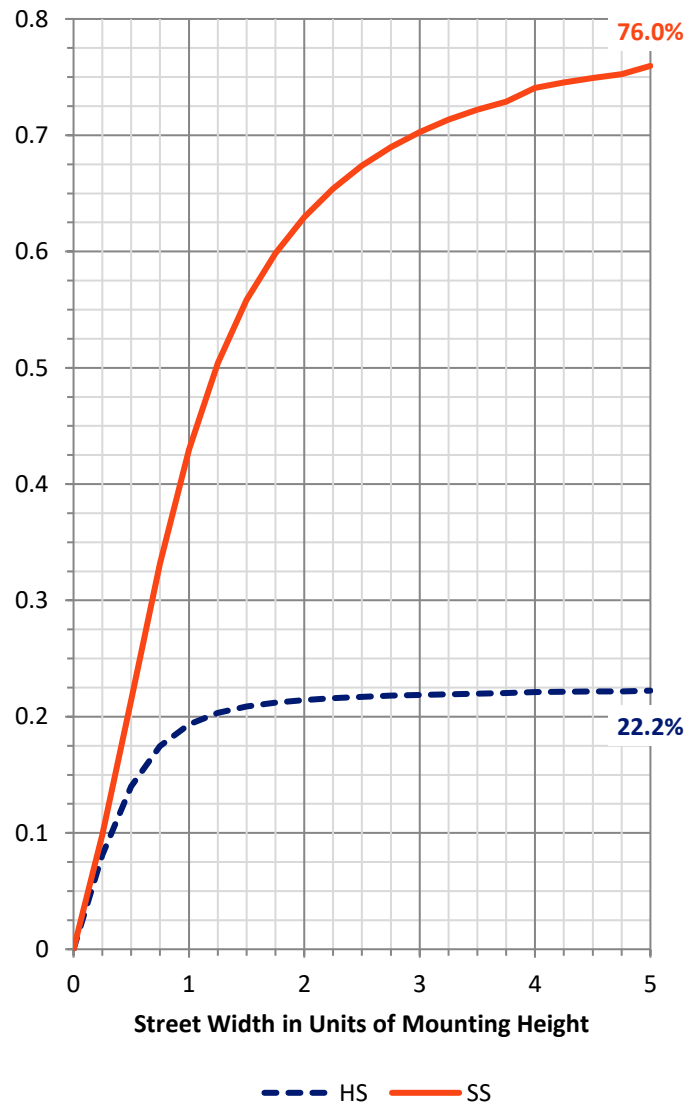
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5106.9	0.0	5106.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	17573.5	0.0	17573.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	22680.4	0.0	22680.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	1.2
10°-20°	898.5	4.0
20°-30°	1705.0	7.5
30°-40°	2685.0	11.8
40°-50°	3747.6	16.5
50°-60°	4634.9	20.4
60°-70°	4804.4	21.2
70°-80°	3023.1	13.3
80°-90°	903.7	4.0
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°	22680.4	100.0
0°-180°	22680.4	100.0

Coefficient of Utilization



REPORT NUMBER: P158938

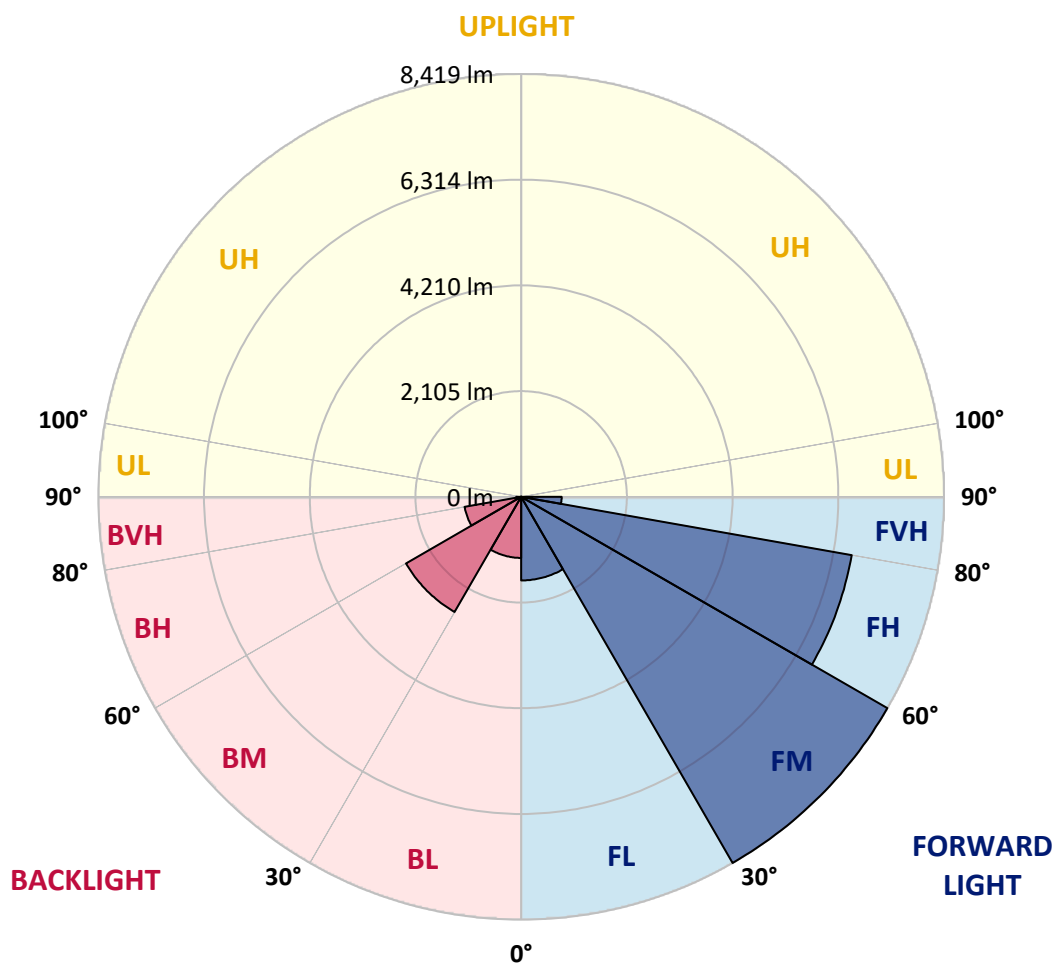
CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1665.1	7.3			
FM	(30°-60°)	8419.3	37.1			
FH	(60°-80°)	6683.7	29.5			G3/7500
FVH	(80°-90°)	805.4	3.6			G5
BL	(0°-30°)	1216.6	5.4	B3/2500		
BM	(30°-60°)	2648.2	11.7	B3/5000		
BH	(60°-80°)	1143.7	5.0	B3/2500		G3/2500
BVH	(80°-90°)	98.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P158938

CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2987.7	2984.4	2984.4	2984.4	2982.7	2979.3	2984.4	2982.7	2974.2	2969.2	2974.2
5°	3026.6	3028.2	3033.3	3035.0	3035.0	3040.1	3053.6	3055.2	3053.6	3056.9	3065.4
7.5°	3063.7	3072.1	3077.2	3085.6	3095.8	3104.2	3127.8	3151.5	3166.7	3178.5	3181.8
10°	3124.5	3138.0	3153.2	3175.1	3198.7	3240.9	3261.2	3284.8	3300.0	3323.6	3328.7
12.5°	3279.7	3296.6	3306.8	3340.5	3370.9	3411.4	3440.1	3446.9	3482.3	3502.6	3526.2
15°	3541.4	3566.7	3602.2	3622.4	3656.2	3691.6	3716.9	3750.7	3755.8	3782.8	3801.3
17.5°	3862.1	3897.6	3970.1	4019.1	4063.0	4098.4	4149.1	4187.9	4196.3	4226.7	4187.9
20°	4311.1	4397.2	4409.0	4506.9	4545.7	4616.6	4717.9	4736.5	4785.4	4736.5	4707.8
22.5°	4918.8	5053.8	5091.0	5185.5	5232.7	5340.8	5371.2	5470.7	5504.5	5467.4	5389.7
25°	5617.6	5826.9	5934.9	6080.1	6103.7	6324.9	6348.5	6465.0	6402.5	6313.1	6314.7
27.5°	6132.4	6488.6	6767.1	7015.3	7189.1	7438.9	7633.1	7687.1	7628.0	7511.5	7471.0
30°	6426.1	6829.6	7229.6	7572.3	7977.4	8358.9	8755.6	8953.1	8986.8	9047.6	8802.8
32.5°	6615.2	7133.4	7609.4	8033.1	8448.3	8939.6	9471.3	9979.3	10406.4	10728.8	10576.9
35°	6773.9	7413.6	8023.0	8536.1	9027.3	9562.4	10099.2	10698.4	11405.7	11819.2	11905.3
37.5°	6838.0	7619.6	8365.6	9024.0	9714.3	10316.9	10850.3	11383.7	12126.5	12864.1	13092.0
40°	6826.2	7720.8	8569.9	9397.0	10242.7	10995.5	11620.1	12251.4	13120.7	13983.2	14354.6
42.5°	6746.9	7736.0	8699.9	9645.1	10609.0	11609.9	12408.4	13135.9	13969.7	15075.4	15600.3
45°	6647.3	7683.7	8726.9	9771.7	10880.7	12038.7	13048.1	13947.8	14925.1	16017.3	16651.9
47.5°	6512.2	7601.0	8693.1	9815.6	11002.3	12313.8	13500.5	14582.5	15657.7	16915.3	17720.4
50°	6365.4	7482.8	8623.9	9783.5	11032.6	12464.1	13758.7	14991.0	16246.8	17604.0	18621.8
52.5°	6262.4	7356.2	8561.4	9717.7	11002.3	12509.6	13853.3	15210.4	16608.1	18010.8	19226.1
55°	6135.8	7187.4	8394.3	9564.1	10890.9	12484.3	13843.1	15286.4	16707.6	18167.7	19555.3
57.5°	6144.3	7109.8	8252.5	9380.1	10663.0	12249.7	13652.4	15210.4	16550.7	18066.5	19567.1
60°	6411.0	7276.9	8326.8	9417.3	10595.5	12101.1	13328.3	14720.9	16089.8	17717.1	19293.6
62.5°	6961.2	7754.6	8708.3	9788.6	10975.3	12398.2	13181.5	13907.3	15122.6	17073.9	18827.7
65°	7617.9	8333.6	9160.7	10188.7	11518.8	12881.0	13098.7	13245.6	13860.0	15823.1	17953.4
67.5°	8274.5	8914.2	9564.1	10416.5	11827.7	13019.4	12761.1	12411.7	12742.6	14369.8	16235.0
70°	8510.8	9359.9	9786.9	10372.6	11593.1	12697.0	12215.9	11336.5	11451.3	12929.9	14293.8
72.5°	8156.3	9366.6	9508.4	9726.2	10548.2	11586.3	11078.2	9947.3	9923.6	11052.9	12155.2
75°	6841.4	8544.6	8542.9	8461.9	8647.5	9238.3	8975.0	8293.1	8581.7	9471.3	9834.2
77.5°	4876.6	6667.5	6751.9	6206.7	6193.2	6459.9	6618.6	7411.9	8458.5	8958.1	8843.3
80°	3063.7	4498.5	4861.4	4187.9	4044.4	4422.5	5403.2	6557.8	7845.7	8294.7	7908.2
82.5°	1845.0	2898.3	3671.4	3289.9	3256.1	3944.8	5028.5	5477.5	5864.0	6341.7	5695.3
85°	1252.5	1931.1	2511.7	2587.7	2883.1	3595.4	4066.3	3867.2	3877.3	3752.4	3418.2
87.5°	239.7	526.7	860.9	1049.9	1164.7	1564.8	1701.5	1541.1	1627.2	1190.0	1301.4
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: P158938

CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2965.8	2965.8	2965.8	2957.3	2959.0	2947.2	2942.2	2942.2	2937.1	2937.1	2935.4
5°	3058.6	3048.5	3053.6	3051.9	3051.9	3035.0	3026.6	3026.6	3004.6	3006.3	2999.5
7.5°	3197.0	3195.3	3200.4	3190.3	3176.8	3163.3	3149.8	3143.0	3112.6	3094.1	3082.3
10°	3354.0	3352.3	3357.4	3355.7	3332.1	3306.8	3269.6	3242.6	3205.5	3176.8	3148.1
12.5°	3526.2	3524.5	3521.1	3505.9	3480.6	3440.1	3392.8	3347.3	3291.6	3254.4	3212.2
15°	3794.6	3789.5	3769.3	3747.3	3720.3	3657.9	3575.1	3509.3	3435.0	3370.9	3301.7
17.5°	4191.3	4149.1	4145.7	4096.7	4024.1	3941.4	3863.8	3754.1	3647.7	3551.5	3457.0
20°	4738.2	4640.3	4613.3	4557.6	4461.3	4375.2	4206.5	4059.6	3914.4	3782.8	3662.9
22.5°	5334.0	5263.1	5197.3	5106.1	4974.5	4849.6	4635.2	4451.2	4265.5	4096.7	3963.4
25°	6166.2	6043.0	5924.8	5779.6	5597.3	5448.8	5204.0	5018.4	4775.3	4621.7	4429.3
27.5°	7241.4	7030.4	6831.3	6706.4	6385.6	6169.6	5857.3	5617.6	5323.9	5116.3	4888.4
30°	8640.8	8396.0	8100.6	7668.5	7287.0	6858.3	6471.7	6164.5	5852.2	5561.9	5298.6
32.5°	10376.0	9943.9	9476.3	8791.0	8164.8	7553.7	7038.9	6660.8	6341.7	5980.5	5609.2
35°	11842.9	11397.3	10733.9	9862.9	9089.8	8391.0	7774.8	7258.3	6841.4	6383.9	5892.7
37.5°	13000.8	12492.8	11869.9	10944.9	10127.9	9332.9	8686.4	8028.0	7481.1	6851.5	6230.3
40°	14327.6	13817.8	13132.5	12173.7	11206.5	10344.0	9586.0	8905.8	8234.0	7465.9	6667.5
42.5°	15483.9	15115.9	14422.1	13431.3	12359.4	11398.9	10570.1	9792.0	8914.2	8055.0	7109.8
45°	16689.1	16314.3	15656.0	14619.6	13480.2	12410.0	11419.2	10582.0	9545.5	8522.6	7440.6
47.5°	17754.2	17369.3	16704.3	15674.6	14464.3	13336.7	12246.3	11233.5	10030.0	8855.2	7656.7
50°	18770.4	18299.4	17690.0	16663.8	15370.8	14165.5	12982.3	11682.5	10406.4	9088.1	7803.5
52.5°	19703.8	19104.6	18527.3	17470.6	16073.0	14813.7	13493.7	12064.0	10637.7	9272.1	7903.1
55°	20233.8	19847.3	19156.9	18118.8	16572.6	15259.4	13817.8	12332.4	10867.2	9402.1	7945.3
57.5°	20397.6	20303.0	19724.1	18493.5	16866.3	15504.1	14037.3	12545.1	11020.8	9439.2	7886.3
60°	20267.6	20439.8	20122.4	18756.9	16999.7	15576.7	14145.3	12697.0	11047.8	9321.0	7707.3
62.5°	19850.7	20242.3	20201.8	18844.6	16930.5	15485.5	14133.5	12619.4	10794.6	8953.1	7305.6
65°	19165.3	19658.2	19832.1	18518.8	16540.5	15153.0	13833.0	12131.5	10090.8	8234.0	6632.1
67.5°	17875.7	18621.8	18790.6	17452.0	15521.0	14233.1	12967.1	11118.7	8787.6	7121.6	5580.5
70°	15291.4	16596.2	16824.1	15419.7	13723.3	12592.3	11518.8	9513.5	7317.4	5712.1	4282.4
72.5°	12207.5	13027.8	13493.7	12526.5	11263.9	10443.5	9629.9	7298.8	5521.4	4214.9	2947.2
75°	9543.8	9494.9	9911.8	9268.7	8526.0	8142.8	7531.8	5092.6	3698.4	2791.9	1865.2
77.5°	8159.7	7531.8	7057.5	6605.1	6164.5	6043.0	5457.2	3159.9	2285.5	1672.8	1115.8
80°	6782.3	5636.2	4770.2	4133.9	3976.9	4216.6	3571.8	1863.5	1353.8	960.5	700.5
82.5°	4846.2	4054.5	3300.0	2896.6	2628.2	3009.7	2106.6	1034.7	734.3	575.6	464.2
85°	3141.3	3002.9	2970.8	2839.2	2513.4	2373.3	1600.2	891.3	550.3	357.9	288.6
87.5°	1208.6	1549.6	1787.6	1915.9	2071.2	1845.0	833.9	307.2	302.1	185.7	140.1
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: P158938

CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2923.6	2916.8	2915.1	2910.1	2906.7	2906.7	2898.3	2744.7	2743.0	2743.0	2741.3
5°	2986.0	2977.6	2969.2	2967.5	2960.7	2960.7	2952.3	2798.7	2798.7	2798.7	2795.3
7.5°	3070.4	3053.6	3043.4	3038.4	3028.2	3033.3	3040.1	2884.8	2886.4	2884.8	2888.1
10°	3131.2	3121.1	3109.3	3105.9	3099.1	3104.2	3114.3	2960.7	2965.8	2967.5	2970.8
12.5°	3190.3	3173.4	3158.2	3153.2	3149.8	3163.3	3175.1	3026.6	3031.6	3036.7	3036.7
15°	3262.9	3234.2	3213.9	3202.1	3195.3	3208.9	3225.7	3078.9	3080.6	3085.6	3083.9
17.5°	3386.1	3343.9	3296.6	3288.2	3266.2	3271.3	3274.7	3111.0	3104.2	3092.4	3072.1
20°	3576.8	3512.7	3448.5	3421.5	3377.7	3359.1	3321.9	3112.6	3070.4	3035.0	3004.6
22.5°	3850.3	3755.8	3686.6	3641.0	3551.5	3489.1	3387.8	3104.2	3024.9	2964.1	2916.8
25°	4292.5	4179.4	4073.1	3958.3	3818.2	3693.3	3544.8	3178.5	3055.2	2950.6	2859.4
27.5°	4723.0	4544.0	4380.3	4208.1	4010.6	3823.3	3614.0	3202.1	3062.0	2927.0	2778.4
30°	5045.4	4785.4	4537.3	4285.8	4027.5	3784.5	3548.1	3121.1	2954.0	2802.0	2645.1
32.5°	5241.2	4903.6	4581.2	4268.9	3965.1	3691.6	3426.6	2981.0	2797.0	2618.1	2450.9
35°	5426.9	5008.2	4608.2	4240.2	3892.5	3588.6	3303.4	2817.2	2597.8	2407.1	2196.1
37.5°	5656.4	5118.0	4625.1	4187.9	3786.1	3438.4	3124.5	2611.3	2391.9	2157.2	1958.1
40°	5931.6	5231.1	4608.2	4083.2	3620.7	3240.9	2908.4	2395.2	2150.5	1922.6	1726.8
42.5°	6193.2	5330.6	4564.3	3943.1	3440.1	3035.0	2710.9	2202.8	1958.1	1725.1	1531.0
45°	6387.3	5415.0	4542.4	3845.2	3301.7	2894.9	2537.0	2047.5	1789.3	1554.6	1357.1
47.5°	6522.4	5465.7	4532.2	3791.2	3205.5	2749.7	2378.4	1892.2	1620.5	1384.1	1191.7
50°	6593.3	5464.0	4506.9	3732.1	3063.7	2575.9	2214.6	1735.2	1465.2	1233.9	1058.4
52.5°	6611.8	5433.6	4452.9	3624.1	2891.5	2402.0	2039.1	1571.5	1328.4	1107.3	930.1
55°	6569.6	5359.3	4339.8	3443.5	2707.5	2218.0	1878.7	1443.2	1195.1	985.8	847.4
57.5°	6449.8	5227.7	4127.1	3195.3	2513.4	2047.5	1694.7	1287.9	1049.9	874.4	759.6
60°	6227.0	4949.2	3794.6	2901.6	2267.0	1787.6	1441.5	1085.4	896.3	764.7	671.8
62.5°	5815.1	4512.0	3327.0	2496.5	1912.5	1450.0	1151.2	865.9	724.1	638.1	580.7
65°	5151.7	3853.7	2785.2	1966.5	1453.4	1055.0	855.8	651.6	548.6	496.3	479.4
67.5°	4204.8	2975.9	2025.6	1365.6	984.1	739.3	595.9	476.0	427.1	406.8	400.1
70°	3056.9	2027.3	1311.6	862.6	649.9	516.5	450.7	383.2	356.2	351.1	351.1
72.5°	1919.2	1232.2	803.5	590.8	492.9	418.6	384.9	337.6	327.5	324.1	319.0
75°	1125.9	747.8	568.8	484.5	422.0	374.7	346.0	307.2	300.5	298.8	293.7
77.5°	717.4	538.5	459.1	413.6	381.5	339.3	314.0	273.5	271.8	270.1	268.4
80°	514.8	447.3	401.7	366.3	334.2	295.4	280.2	248.1	244.8	243.1	246.4
82.5°	389.9	369.7	351.1	324.1	280.2	251.5	239.7	217.7	219.4	211.0	209.3
85°	268.4	265.0	263.3	251.5	219.4	194.1	185.7	173.9	182.3	173.9	163.7
87.5°	131.7	130.0	119.8	141.8	131.7	104.7	94.5	104.7	116.5	113.1	104.7
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: P158938

CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2734.5	2727.8	2732.8	2729.5	2729.5	2727.8	2731.2	2726.1	2722.7	2726.1	2727.8
5°	2788.5	2780.1	2781.8	2770.0	2775.0	2763.2	2766.6	2758.2	2749.7	2746.3	2746.3
7.5°	2879.7	2871.3	2861.1	2859.4	2840.9	2834.1	2822.3	2815.6	2810.5	2798.7	2791.9
10°	2962.4	2948.9	2937.1	2935.4	2916.8	2900.0	2884.8	2871.3	2862.8	2845.9	2837.5
12.5°	3029.9	3016.4	2997.9	2987.7	2969.2	2948.9	2938.8	2918.5	2906.7	2888.1	2872.9
15°	3068.8	3045.1	3018.1	2999.5	2972.5	2950.6	2935.4	2920.2	2908.4	2884.8	2862.8
17.5°	3050.2	3011.4	2974.2	2940.5	2903.3	2883.1	2861.1	2842.6	2839.2	2812.2	2778.4
20°	2972.5	2927.0	2878.0	2832.4	2783.5	2754.8	2727.8	2699.1	2690.6	2658.6	2614.7
22.5°	2878.0	2825.7	2770.0	2714.3	2651.8	2611.3	2570.8	2535.3	2506.7	2459.4	2396.9
25°	2781.8	2704.1	2623.1	2552.2	2479.6	2429.0	2386.8	2348.0	2314.2	2238.3	2174.1
27.5°	2655.2	2533.7	2450.9	2369.9	2282.2	2216.3	2169.1	2115.0	2077.9	1990.1	1922.6
30°	2493.1	2371.6	2253.5	2172.4	2084.7	2013.8	1953.0	1875.3	1821.3	1757.2	1694.7
32.5°	2288.9	2167.4	2047.5	1956.4	1883.8	1796.0	1720.1	1645.8	1583.3	1520.9	1471.9
35°	2040.8	1922.6	1809.5	1718.4	1637.3	1568.1	1495.6	1431.4	1360.5	1293.0	1264.3
37.5°	1779.1	1652.5	1527.6	1448.3	1384.1	1335.2	1267.7	1215.3	1151.2	1110.7	1076.9
40°	1551.3	1416.2	1298.1	1230.5	1179.9	1124.2	1068.5	1028.0	982.4	941.9	916.6
42.5°	1358.8	1232.2	1130.9	1073.6	1012.8	952.0	909.8	876.1	847.4	817.0	786.6
45°	1181.6	1060.1	975.7	904.8	854.1	805.2	776.5	761.3	744.4	725.8	705.6
47.5°	1033.0	928.4	845.7	779.8	727.5	693.8	680.3	675.2	668.4	653.2	643.1
50°	920.0	833.9	749.5	690.4	646.5	629.6	614.4	609.4	600.9	595.9	589.1
52.5°	825.4	734.3	663.4	609.4	582.4	575.6	568.8	562.1	560.4	557.0	553.7
55°	747.8	668.4	602.6	562.1	548.6	543.5	541.8	535.1	533.4	533.4	528.3
57.5°	678.6	611.0	552.0	526.7	518.2	513.1	509.8	506.4	506.4	509.8	508.1
60°	607.7	550.3	514.8	501.3	496.3	487.8	479.4	476.0	477.7	486.1	486.1
62.5°	538.5	496.3	474.3	469.3	464.2	457.4	447.3	443.9	447.3	457.4	462.5
65°	462.5	443.9	437.2	433.8	430.4	425.4	418.6	415.2	416.9	422.0	428.7
67.5°	393.3	391.6	391.6	393.3	391.6	389.9	386.5	381.5	379.8	379.8	383.2
70°	351.1	351.1	356.2	356.2	354.5	354.5	349.4	344.3	341.0	337.6	339.3
72.5°	319.0	319.0	320.7	322.4	320.7	320.7	314.0	310.6	302.1	300.5	297.1
75°	292.0	288.6	288.6	287.0	285.3	287.0	280.2	271.8	268.4	266.7	263.3
77.5°	265.0	258.3	254.9	251.5	253.2	251.5	246.4	241.4	236.3	234.6	232.9
80°	234.6	224.5	219.4	211.0	216.1	217.7	214.4	209.3	207.6	205.9	204.2
82.5°	194.1	184.0	177.2	172.2	168.8	172.2	177.2	189.1	185.7	184.0	180.6
85°	151.9	135.0	126.6	128.3	119.8	121.5	136.7	143.5	143.5	146.9	143.5
87.5°	86.1	82.7	62.5	57.4	60.8	72.6	81.0	89.5	89.5	84.4	94.5
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: P158938

CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2.5°	2727.8	2731.2	2732.8	2739.6	2743.0	2744.7	2746.3	2749.7	2751.4	2749.7	2758.2
5°	2741.3	2741.3	2737.9	2743.0	2744.7	2744.7	2741.3	2744.7	2744.7	2744.7	2753.1
7.5°	2776.7	2766.6	2761.5	2754.8	2749.7	2743.0	2734.5	2734.5	2732.8	2734.5	2739.6
10°	2813.9	2798.7	2780.1	2763.2	2748.0	2736.2	2721.0	2716.0	2714.3	2712.6	2726.1
12.5°	2842.6	2815.6	2786.9	2758.2	2727.8	2707.5	2682.2	2667.0	2665.3	2665.3	2682.2
15°	2822.3	2778.4	2722.7	2672.1	2645.1	2616.4	2587.7	2569.1	2567.4	2570.8	2580.9
17.5°	2721.0	2650.1	2601.2	2552.2	2516.8	2493.1	2474.6	2471.2	2478.0	2471.2	2484.7
20°	2548.9	2472.9	2439.1	2400.3	2386.8	2369.9	2342.9	2319.3	2319.3	2288.9	2297.3
22.5°	2326.0	2283.8	2240.0	2209.6	2199.4	2170.7	2142.0	2110.0	2106.6	2069.5	2064.4
25°	2093.1	2050.9	2015.5	2008.7	1978.3	1939.5	1912.5	1875.3	1866.9	1829.8	1824.7
27.5°	1855.1	1821.3	1785.9	1765.6	1748.7	1706.5	1682.9	1639.0	1622.2	1581.6	1576.6
30°	1628.9	1605.3	1563.1	1546.2	1514.1	1465.2	1414.5	1387.5	1374.0	1331.8	1318.3
32.5°	1416.2	1379.1	1347.0	1326.8	1286.2	1230.5	1185.0	1146.1	1120.8	1070.2	1056.7
35°	1213.7	1176.5	1161.3	1109.0	1073.6	1036.4	974.0	950.3	904.8	865.9	852.4
37.5°	1034.7	999.3	979.0	935.1	899.7	862.6	825.4	795.0	773.1	764.7	764.7
40°	881.1	862.6	837.2	805.2	781.5	754.5	734.3	724.1	722.5	725.8	734.3
42.5°	771.4	751.2	734.3	717.4	700.5	697.1	692.1	698.8	707.3	715.7	724.1
45°	688.7	671.8	661.7	654.9	653.2	658.3	668.4	678.6	693.8	703.9	710.6
47.5°	629.6	616.1	612.7	611.0	619.5	634.7	648.2	663.4	675.2	685.3	692.1
50°	579.0	567.2	565.5	563.8	575.6	589.1	600.9	621.2	629.6	636.4	641.4
52.5°	543.5	533.4	528.3	530.0	541.8	553.7	570.5	585.7	597.5	602.6	607.7
55°	514.8	511.5	499.6	504.7	516.5	531.7	548.6	565.5	577.3	585.7	594.2
57.5°	492.9	484.5	476.0	484.5	496.3	511.5	531.7	546.9	562.1	573.9	582.4
60°	469.3	462.5	455.8	464.2	476.0	491.2	506.4	526.7	545.2	557.0	565.5
62.5°	449.0	443.9	437.2	438.9	443.9	454.1	462.5	481.1	498.0	513.1	523.3
65°	420.3	418.6	408.5	410.2	413.6	423.7	430.4	447.3	464.2	477.7	486.1
67.5°	378.1	374.7	374.7	379.8	381.5	386.5	391.6	408.5	422.0	432.1	442.3
70°	335.9	334.2	334.2	337.6	335.9	341.0	347.7	362.9	379.8	389.9	400.1
72.5°	295.4	295.4	293.7	297.1	297.1	298.8	307.2	320.7	335.9	344.3	351.1
75°	259.9	258.3	258.3	258.3	259.9	259.9	268.4	280.2	295.4	300.5	310.6
77.5°	227.9	227.9	227.9	227.9	229.6	227.9	232.9	241.4	246.4	254.9	254.9
80°	200.9	199.2	200.9	202.6	202.6	200.9	200.9	202.6	204.2	204.2	204.2
82.5°	177.2	172.2	175.6	184.0	184.0	184.0	182.3	170.5	162.0	162.0	165.4
85°	141.8	141.8	143.5	155.3	157.0	150.2	157.0	140.1	123.2	118.2	121.5
87.5°	87.8	69.2	84.4	96.2	96.2	91.2	101.3	94.5	79.3	64.1	60.8
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: P158938
CATALOG NUMBER: VST-E10-LED-E-U-SLL-8030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	0°
2.5°	2764.9	2766.6	2776.7	2781.8	2781.8	2788.5	2791.9	2802.0	2800.4	2800.4	2803.7	2.5°
5°	2761.5	2766.6	2776.7	2783.5	2786.9	2795.3	2802.0	2813.9	2812.2	2815.6	2817.2	5°
7.5°	2749.7	2763.2	2773.4	2786.9	2798.7	2805.4	2813.9	2824.0	2820.6	2822.3	2820.6	7.5°
10°	2739.6	2753.1	2773.4	2791.9	2808.8	2818.9	2824.0	2835.8	2834.1	2837.5	2837.5	10°
12.5°	2699.1	2722.7	2748.0	2776.7	2802.0	2829.1	2845.9	2871.3	2883.1	2898.3	2915.1	12.5°
15°	2596.1	2623.1	2663.6	2695.7	2744.7	2781.8	2830.7	2879.7	2923.6	2965.8	3014.7	15°
17.5°	2494.8	2506.7	2538.7	2582.6	2626.5	2682.2	2741.3	2829.1	2908.4	2994.5	3089.0	17.5°
20°	2307.5	2327.7	2349.7	2402.0	2454.3	2533.7	2606.2	2721.0	2837.5	2972.5	3117.7	20°
22.5°	2076.2	2096.5	2120.1	2179.2	2243.3	2324.4	2412.1	2540.4	2695.7	2871.3	3065.4	22.5°
25°	1826.4	1838.2	1856.8	1915.9	1954.7	2061.0	2167.4	2300.7	2469.5	2695.7	2921.9	25°
27.5°	1551.3	1573.2	1588.4	1615.4	1704.9	1796.0	1907.4	2050.9	2255.1	2486.4	2759.9	27.5°
30°	1287.9	1306.5	1298.1	1355.4	1414.5	1510.7	1630.6	1789.3	1985.1	2260.2	2575.9	30°
32.5°	1029.7	1043.2	1038.1	1078.6	1137.7	1233.9	1347.0	1519.2	1726.8	2020.5	2363.2	32.5°
35°	849.1	852.4	871.0	889.6	940.2	1017.9	1114.1	1264.3	1477.0	1747.1	2110.0	35°
37.5°	764.7	771.4	783.2	808.5	845.7	901.4	980.7	1097.2	1279.5	1517.5	1841.6	37.5°
40°	739.3	744.4	751.2	768.0	803.5	852.4	923.3	1021.2	1154.6	1355.4	1618.8	40°
42.5°	727.5	727.5	727.5	737.6	764.7	817.0	898.0	994.2	1110.7	1262.6	1475.3	42.5°
45°	710.6	710.6	709.0	714.0	732.6	784.9	872.7	980.7	1105.6	1250.8	1434.8	45°
47.5°	692.1	690.4	685.3	685.3	697.1	749.5	840.6	957.1	1093.8	1260.9	1458.4	47.5°
50°	641.4	641.4	641.4	646.5	656.6	703.9	801.8	925.0	1082.0	1267.7	1495.6	50°
52.5°	612.7	614.4	619.5	619.5	629.6	678.6	781.5	918.3	1088.7	1293.0	1542.8	52.5°
55°	599.2	604.3	609.4	609.4	617.8	668.4	774.8	923.3	1114.1	1345.3	1623.8	55°
57.5°	587.4	592.5	595.9	595.9	602.6	646.5	756.2	914.9	1129.3	1396.0	1723.4	57.5°
60°	565.5	568.8	570.5	570.5	572.2	609.4	714.0	874.4	1095.5	1392.6	1777.4	60°
62.5°	525.0	531.7	533.4	535.1	535.1	570.5	660.0	808.5	1022.9	1341.9	1762.3	62.5°
65°	494.6	498.0	503.0	506.4	513.1	536.8	607.7	729.2	928.4	1240.7	1677.9	65°
67.5°	447.3	452.4	457.4	464.2	470.9	486.1	541.8	639.7	800.1	1068.5	1488.8	67.5°
70°	405.1	406.8	411.9	420.3	422.0	430.4	470.9	538.5	654.9	857.5	1198.5	70°
72.5°	352.8	356.2	362.9	373.0	373.0	379.8	403.4	438.9	513.1	654.9	884.5	72.5°
75°	307.2	310.6	315.7	315.7	307.2	308.9	325.8	351.1	406.8	492.9	644.8	75°
77.5°	254.9	261.6	266.7	256.6	253.2	258.3	266.7	285.3	325.8	391.6	484.5	77.5°
80°	211.0	214.4	216.1	217.7	214.4	219.4	226.2	238.0	265.0	315.7	383.2	80°
82.5°	168.8	172.2	177.2	184.0	184.0	202.6	204.2	204.2	219.4	251.5	300.5	82.5°
85°	124.9	131.7	138.4	146.9	148.5	158.7	153.6	151.9	157.0	187.4	207.6	85°
87.5°	64.1	69.2	72.6	79.3	70.9	74.3	74.3	69.2	60.8	76.0	84.4	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P158938

NUMBER: VST-E10-LED-E-U-SLL-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
2820.6	2820.6	2820.6	2820.6	2820.6	2820.6	2820.6
2807.1	2803.7	2807.1	2807.1	2812.2	2808.8	2987.7
2820.6	2817.2	2820.6	2824.0	2829.1	2829.1	3026.6
2822.3	2822.3	2818.9	2827.4	2834.1	2840.9	3063.7
2842.6	2842.6	2845.9	2847.6	2862.8	2879.7	3124.5
2925.3	2933.7	2948.9	2954.0	2981.0	2999.5	3279.7
3051.9	3099.1	3129.5	3139.6	3163.3	3198.7	3541.4
3180.2	3259.5	3342.2	3392.8	3423.2	3465.4	3862.1
3276.4	3424.9	3566.7	3693.3	3765.9	3848.6	4311.1
3284.8	3521.1	3760.8	3995.5	4189.6	4343.2	4918.8
3203.8	3514.4	3845.2	4204.8	4539.0	4815.8	5617.6
3100.8	3482.3	3904.3	4363.4	4802.3	5210.8	6132.4
2970.8	3428.3	3914.4	4431.0	4945.8	5437.0	6426.1
2773.4	3267.9	3792.9	4363.4	4961.0	5558.5	6615.2
2520.2	3024.9	3563.3	4213.2	4890.1	5607.5	6773.9
2261.9	2759.9	3338.8	4012.3	4777.0	5599.0	6838.0
1988.4	2483.0	3075.5	3798.0	4623.4	5521.4	6826.2
1802.8	2253.5	2834.1	3580.2	4452.9	5418.4	6746.9
1694.7	2089.7	2643.4	3381.0	4297.6	5295.2	6647.3
1693.0	2040.8	2542.1	3239.2	4140.6	5158.5	6512.2
1752.1	2071.2	2530.3	3178.5	4054.5	5058.9	6365.4
1821.3	2155.6	2592.7	3200.4	4052.8	5015.0	6262.4
1931.1	2299.0	2729.5	3294.9	4096.7	5008.2	6135.8
2071.2	2493.1	2975.9	3527.9	4267.2	5141.6	6144.3
2214.6	2721.0	3298.3	3926.2	4603.1	5452.2	6411.0
2267.0	2896.6	3625.8	4393.8	5106.1	5918.1	6961.2
2221.4	2937.1	3825.0	4756.7	5595.7	6463.3	7617.9
2052.6	2773.4	3743.9	4859.7	5877.6	6849.8	8274.5
1689.7	2366.6	3376.0	4628.4	5855.6	6929.2	8510.8
1239.0	1834.8	2744.7	3933.0	5205.7	6432.9	8156.3
894.6	1298.1	1981.7	2962.4	4115.3	5180.4	6841.4
641.4	899.7	1286.2	1946.2	2803.7	3607.2	4876.6
460.8	611.0	801.8	1168.1	1708.2	2214.6	3063.7
339.3	418.6	526.7	725.8	1006.0	1289.6	1845.0
231.3	246.4	317.3	428.7	660.0	948.6	1252.5
87.8	99.6	116.5	175.6	295.4	339.3	239.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)