

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: P159168

Luminaire Tested: **VST-E11-LED-E-U-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159168
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-E11-LED-E-U-SLR-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (231) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24948.5 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 269.7
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



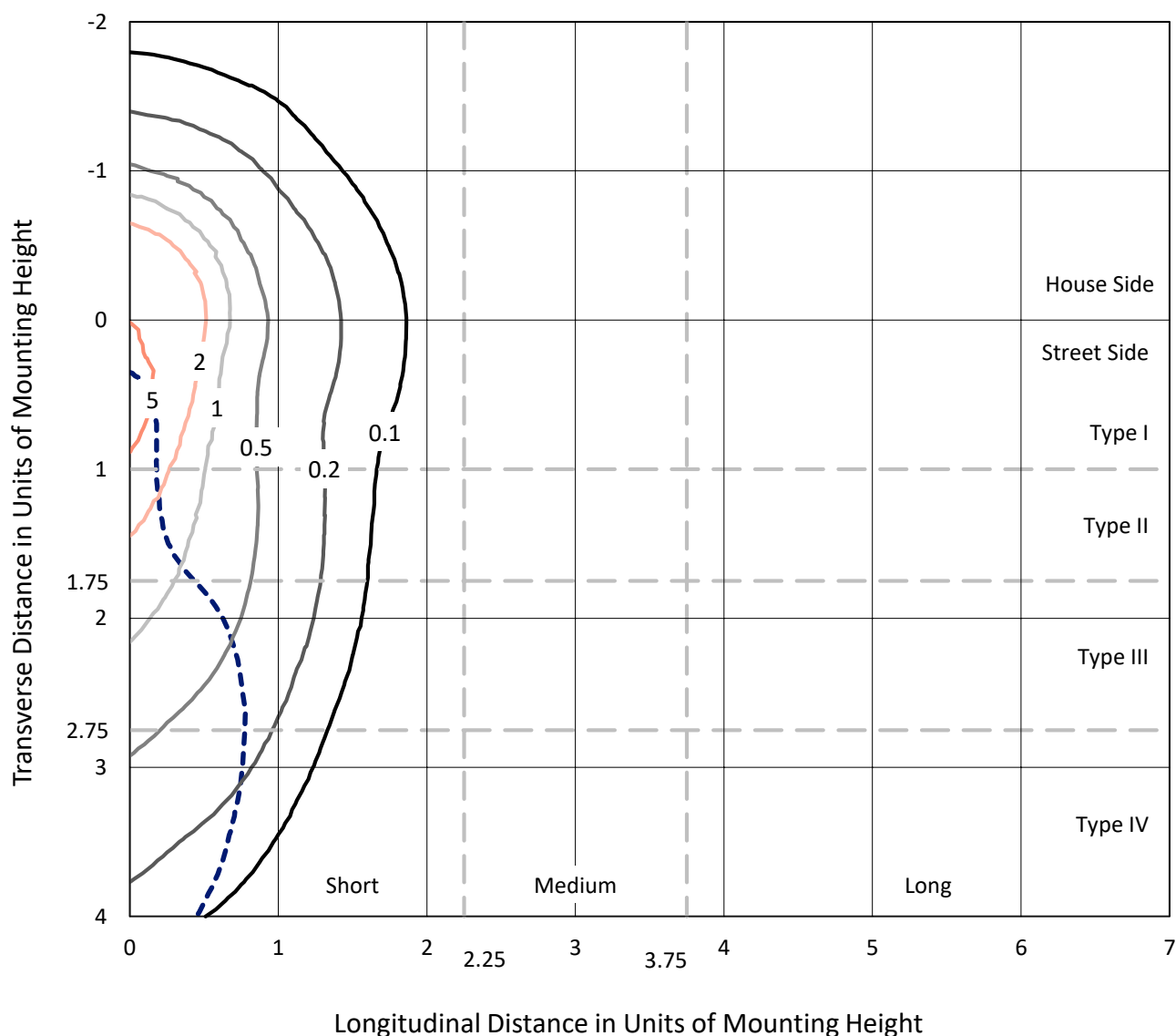
REPORT NUMBER: P159168

CATALOG NUMBER: VST-E11-LED-E-U-SLR-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

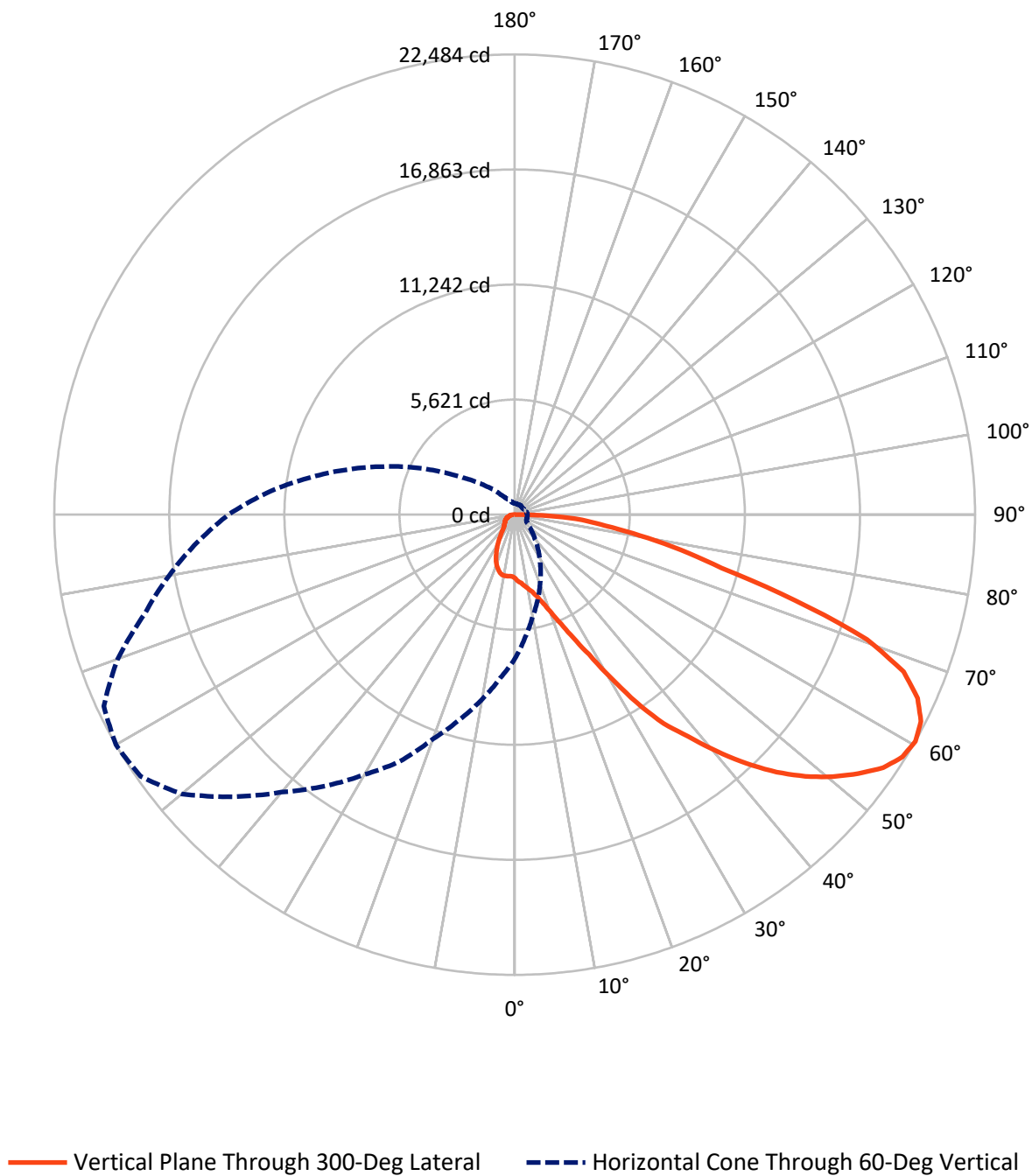


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P159168

CATALOG NUMBER: VST-E11-LED-E-U-SLR-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P159168

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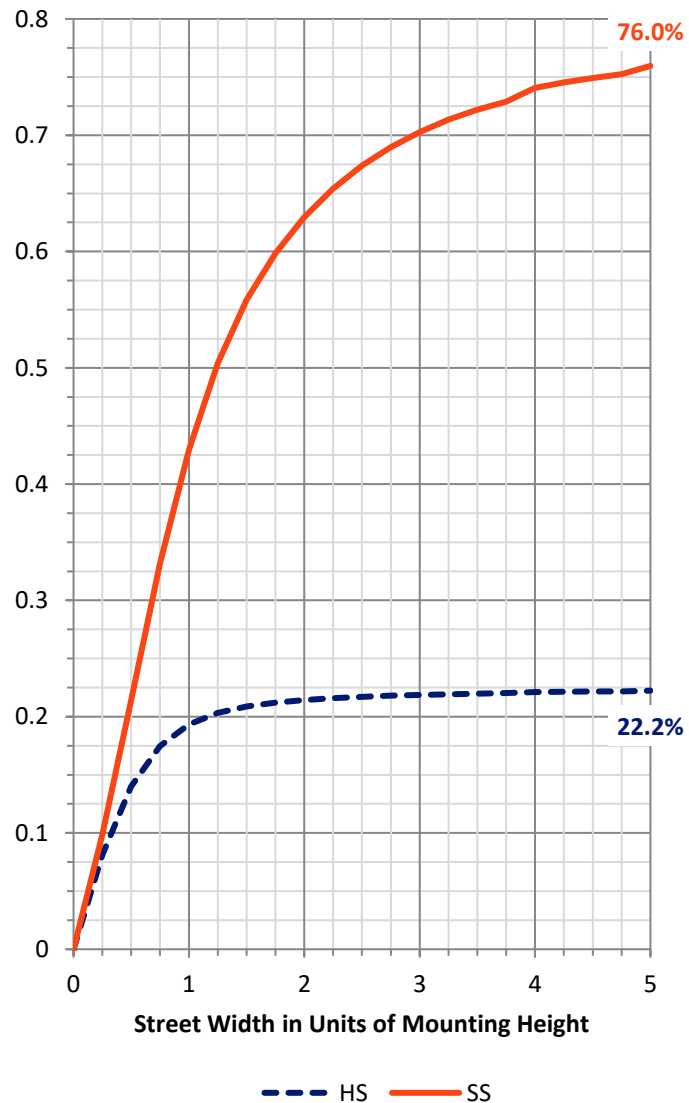
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5617.6	0.0	5617.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	19330.8	0.0	19330.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	24948.5	0.0	24948.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.1	1.2
10°-20°	988.3	4.0
20°-30°	1875.5	7.5
30°-40°	2953.5	11.8
40°-50°	4122.4	16.5
50°-60°	5098.4	20.4
60°-70°	5284.8	21.2
70°-80°	3325.4	13.3
80°-90°	994.0	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°	24948.5	100.0
0°-180°	24948.5	100.0

Coefficient of Utilization



REPORT NUMBER: P159168

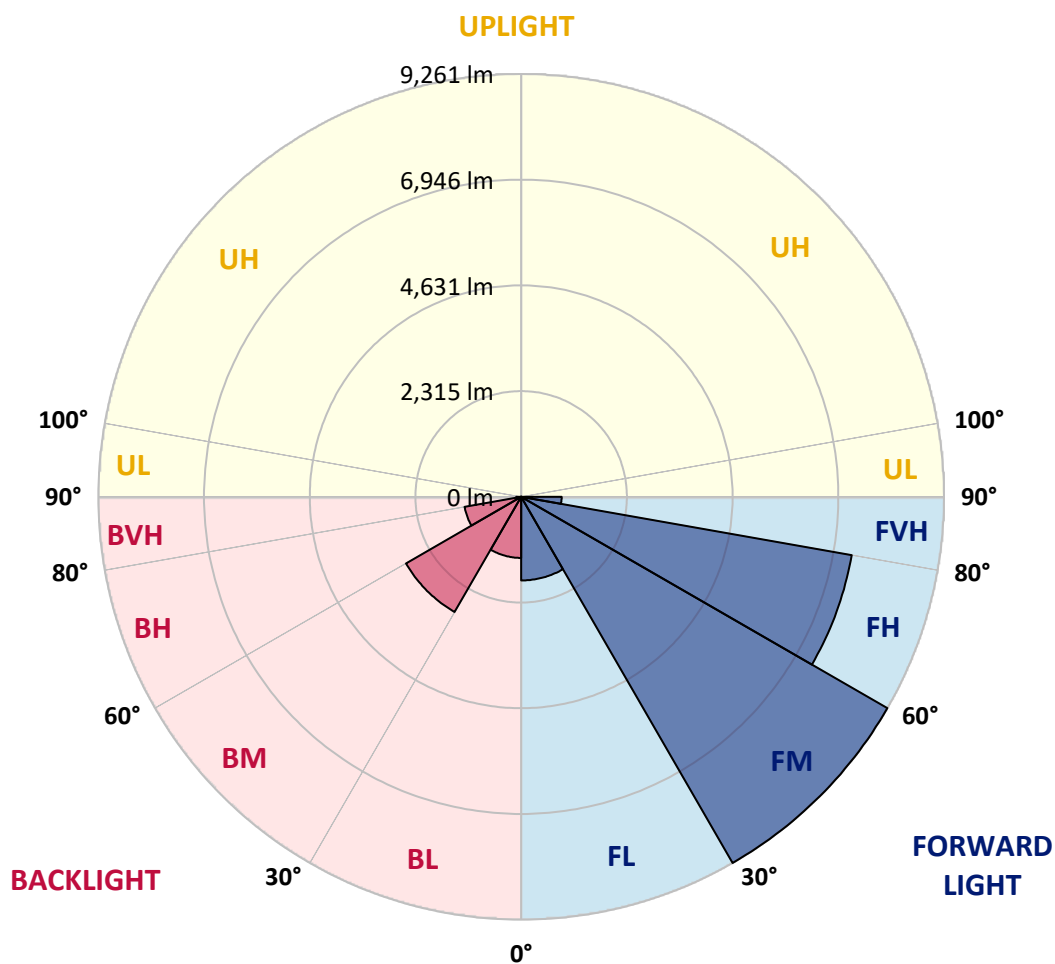
CATALOG NUMBER: VST-E11-LED-E-U-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1831.6	7.3			
FM	(30°-60°)	9261.3	37.1			
FH	(60°-80°)	7352.1	29.5			G3/7500
FVH	(80°-90°)	885.9	3.6			G5
BL	(0°-30°)	1338.3	5.4	B3/2500		
BM	(30°-60°)	2913.1	11.7	B3/5000		
BH	(60°-80°)	1258.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	108.1	0.4			G2/225
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: P159168

CATALOG NUMBER: VST-E11-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7
2.5°	3286.5	3089.7	3093.4	3087.8	3087.8	3084.1	3087.8	3084.1	3080.4	3080.4	3082.3
5°	3329.2	3112.0	3112.0	3106.4	3102.7	3099.0	3102.7	3099.0	3097.1	3093.4	3095.3
7.5°	3370.1	3125.0	3117.5	3110.1	3100.8	3104.5	3104.5	3102.7	3104.5	3102.7	3106.4
10°	3436.9	3167.7	3149.1	3132.4	3130.5	3126.8	3126.8	3121.2	3121.2	3117.5	3119.4
12.5°	3607.7	3299.5	3279.1	3249.4	3243.8	3227.1	3217.8	3206.7	3188.1	3171.4	3158.4
15°	3895.5	3518.6	3479.6	3453.6	3442.5	3409.0	3357.1	3316.2	3262.4	3215.9	3167.7
17.5°	4248.3	3812.0	3765.5	3732.1	3676.4	3585.4	3498.2	3397.9	3293.9	3199.2	3112.0
20°	4742.2	4233.5	4142.5	4062.6	3923.4	3767.4	3604.0	3429.5	3269.8	3121.2	2993.1
22.5°	5410.7	4777.5	4608.5	4395.0	4136.9	3873.2	3613.3	3371.9	3158.4	2965.3	2794.5
25°	6179.4	5297.4	4992.9	4625.2	4229.7	3865.8	3524.2	3214.1	2965.3	2716.5	2530.8
27.5°	6745.7	5731.9	5282.5	4799.8	4294.7	3830.5	3410.9	3035.8	2735.0	2480.7	2256.0
30°	7068.8	5980.7	5440.4	4874.0	4305.9	3771.1	3267.9	2833.4	2486.2	2183.6	1968.2
32.5°	7276.7	6114.4	5457.1	4799.8	4172.2	3594.7	3050.7	2599.5	2222.6	1899.5	1671.1
35°	7451.3	6168.2	5379.1	4634.5	3919.7	3327.3	2772.2	2321.0	1921.8	1624.7	1390.7
37.5°	7521.8	6158.9	5254.7	4413.6	3672.7	3035.8	2488.1	2025.7	1669.2	1407.4	1206.9
40°	7508.8	6073.5	5085.7	4177.8	3383.1	2731.3	2187.3	1780.7	1491.0	1270.0	1123.4
42.5°	7421.5	5960.3	4898.2	3938.2	3117.5	2478.8	1983.0	1622.8	1388.9	1221.8	1093.6
45°	7312.0	5824.7	4727.4	3719.1	2907.7	2298.7	1864.2	1578.3	1375.9	1216.2	1078.8
47.5°	7163.5	5674.3	4554.7	3563.2	2796.3	2244.8	1862.4	1604.3	1387.0	1203.2	1052.8
50°	7001.9	5564.8	4460.0	3496.3	2783.3	2278.3	1927.3	1645.1	1394.4	1190.2	1017.5
52.5°	6888.7	5516.5	4458.1	3520.5	2852.0	2371.1	2003.5	1697.1	1422.3	1197.6	1010.1
55°	6749.4	5509.1	4506.4	3624.4	3002.4	2528.9	2124.2	1786.2	1479.9	1225.5	1015.7
57.5°	6758.7	5655.8	4693.9	3880.7	3273.5	2742.5	2278.3	1895.8	1535.6	1242.2	1006.4
60°	7052.1	5997.4	5063.4	4318.9	3628.1	2993.1	2436.1	1955.2	1531.8	1205.1	961.8
62.5°	7657.4	6509.9	5616.8	4833.2	3988.4	3186.2	2493.7	1938.5	1476.1	1125.2	889.4
65°	8379.6	7109.6	6155.2	5232.4	4207.5	3230.8	2443.5	1845.6	1364.7	1021.2	802.1
67.5°	9101.9	7534.8	6465.3	5345.7	4118.3	3050.7	2257.8	1637.7	1175.3	880.1	703.7
70°	9361.9	7622.1	6441.2	5091.3	3713.6	2603.2	1858.6	1318.3	943.2	720.4	592.3
72.5°	8972.0	7076.2	5726.3	4326.3	3019.1	2018.3	1362.9	973.0	720.4	564.5	482.8
75°	7525.5	5698.5	4526.8	3258.6	2179.9	1427.9	984.1	709.3	542.2	447.5	386.2
77.5°	5364.2	3967.9	3084.1	2140.9	1414.9	989.7	705.6	532.9	430.8	358.4	313.8
80°	3370.1	2436.1	1879.1	1284.9	882.0	672.2	506.9	421.5	347.2	291.5	261.8
82.5°	2029.5	1418.6	1106.6	798.4	579.3	460.5	373.2	330.5	276.7	241.4	224.7
85°	1377.7	1043.5	726.0	471.6	349.1	271.1	254.4	228.4	206.1	172.7	167.1
87.5°	263.7	373.2	324.9	193.1	128.1	109.6	96.6	92.8	83.6	66.8	76.1
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: P159168

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7
2.5°	3071.1	3067.4	3060.0	3060.0	3054.4	3043.3	3041.4	3034.0	3024.7	3026.6	3024.7
5°	3082.3	3074.8	3065.5	3061.8	3054.4	3043.3	3037.7	3028.4	3019.1	3019.1	3019.1
7.5°	3095.3	3086.0	3078.5	3065.5	3050.7	3039.5	3024.7	3013.6	3008.0	3006.1	3008.0
10°	3106.4	3100.8	3089.7	3071.1	3050.7	3028.4	3013.6	2998.7	2983.8	2985.7	2987.6
12.5°	3130.5	3112.0	3082.3	3054.4	3022.8	2995.0	2969.0	2950.4	2931.9	2931.9	2933.7
15°	3113.8	3060.0	3019.1	2965.3	2930.0	2885.4	2855.7	2839.0	2827.9	2824.2	2826.0
17.5°	3015.4	2950.4	2889.1	2840.9	2792.6	2757.3	2744.3	2733.2	2718.3	2725.8	2718.3
20°	2866.9	2787.0	2699.8	2642.2	2584.6	2560.5	2538.2	2527.1	2517.8	2551.2	2551.2
22.5°	2653.3	2556.8	2467.7	2397.1	2332.1	2306.1	2283.8	2270.8	2276.4	2317.3	2321.0
25°	2384.1	2267.1	2150.2	2107.4	2042.5	2022.0	2009.0	2007.2	2012.7	2053.6	2062.9
27.5°	2098.2	1975.6	1875.3	1776.9	1747.2	1730.5	1706.4	1734.2	1739.8	1784.4	1802.9
30°	1793.6	1661.8	1556.0	1491.0	1427.9	1437.1	1416.7	1450.1	1465.0	1511.4	1526.3
32.5°	1481.7	1357.3	1251.5	1186.5	1141.9	1147.5	1132.6	1162.3	1177.2	1232.9	1260.8
35°	1225.5	1119.6	1034.2	978.5	958.1	937.7	934.0	937.7	952.5	995.2	1045.4
37.5°	1078.8	991.5	930.2	889.4	861.5	848.5	841.1	841.1	841.1	850.4	874.5
40°	1015.7	937.7	883.8	844.8	826.3	818.8	813.3	807.7	798.4	794.7	796.6
42.5°	987.8	898.7	841.1	811.4	800.3	800.3	800.3	796.6	787.3	778.0	768.7
45°	960.0	863.4	805.8	785.4	779.8	781.7	781.7	781.7	774.3	763.1	746.4
47.5°	924.7	824.4	766.9	753.9	753.9	759.4	761.3	761.3	753.9	742.7	729.7
50°	882.0	774.3	722.3	711.1	705.6	705.6	705.6	705.6	700.0	692.6	683.3
52.5°	859.7	746.4	692.6	681.4	681.4	675.9	674.0	668.4	662.9	657.3	644.3
55°	852.3	735.3	679.6	670.3	670.3	664.7	659.2	653.6	644.3	635.0	622.0
57.5°	831.8	711.1	662.9	655.4	655.4	651.7	646.2	640.6	631.3	618.3	601.6
60°	785.4	670.3	629.4	627.6	627.6	625.7	622.0	622.0	612.7	599.7	579.3
62.5°	726.0	627.6	588.6	588.6	586.7	584.9	577.5	575.6	564.5	547.8	529.2
65°	668.4	590.5	564.5	557.0	553.3	547.8	544.0	534.8	525.5	510.6	492.0
67.5°	596.0	534.8	518.0	510.6	503.2	497.6	492.0	486.5	475.3	464.2	449.3
70°	518.0	473.5	464.2	462.3	453.1	447.5	445.6	440.1	428.9	417.8	399.2
72.5°	443.8	417.8	410.3	410.3	399.2	391.8	388.1	386.2	378.8	369.5	352.8
75°	358.4	339.8	337.9	347.2	347.2	341.6	337.9	341.6	330.5	324.9	308.2
77.5°	293.4	284.1	278.5	282.2	293.4	287.8	280.4	280.4	280.4	271.1	265.5
80°	248.8	241.4	235.8	239.5	237.7	235.8	232.1	224.7	224.7	224.7	222.8
82.5°	224.7	222.8	202.4	202.4	195.0	189.4	185.7	182.0	178.3	178.3	187.5
85°	169.0	174.5	163.4	161.5	152.3	144.8	137.4	133.7	130.0	135.5	154.1
87.5°	81.7	81.7	78.0	87.3	79.8	76.1	70.6	66.8	70.6	87.3	104.0
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-E11-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7
2.5°	3021.0	3019.1	3017.3	3013.6	3006.1	3004.3	3000.6	3000.6	2998.7	2995.0	2998.7
5°	3015.4	3019.1	3019.1	3017.3	3011.7	3015.4	3015.4	3021.0	3021.0	3024.7	3034.0
7.5°	3008.0	3017.3	3024.7	3030.3	3037.7	3043.3	3054.4	3071.1	3078.5	3091.5	3097.1
10°	2993.1	3009.8	3022.8	3039.5	3058.1	3078.5	3095.3	3121.2	3130.5	3149.1	3158.4
12.5°	2950.4	2978.3	3000.6	3034.0	3065.5	3097.1	3126.8	3160.2	3177.0	3197.4	3210.4
15°	2846.4	2878.0	2909.6	2939.3	2995.0	3056.3	3104.5	3149.1	3173.2	3199.2	3212.2
17.5°	2722.0	2742.5	2768.5	2807.5	2861.3	2915.1	2993.1	3056.3	3093.4	3123.1	3126.8
20°	2577.2	2606.9	2625.5	2640.3	2683.0	2720.2	2803.7	2876.2	2924.4	2959.7	2969.0
22.5°	2356.3	2387.8	2419.4	2430.5	2463.9	2512.2	2558.6	2636.6	2705.3	2757.3	2788.9
25°	2103.7	2133.4	2176.1	2209.6	2217.0	2256.0	2302.4	2391.5	2462.1	2545.6	2582.8
27.5°	1851.2	1877.2	1923.6	1942.2	1964.5	2003.5	2040.6	2114.9	2189.1	2285.7	2326.5
30°	1556.0	1611.7	1665.5	1700.8	1719.4	1765.8	1791.8	1864.2	1932.9	2003.5	2062.9
32.5°	1303.5	1353.6	1414.9	1459.4	1481.7	1517.0	1557.8	1619.1	1673.0	1741.7	1810.4
35°	1071.4	1140.1	1180.9	1219.9	1277.5	1294.2	1335.0	1390.7	1422.3	1496.6	1574.5
37.5°	908.0	948.8	989.7	1028.7	1076.9	1099.2	1138.2	1184.6	1221.8	1266.3	1336.9
40°	807.7	830.0	859.7	885.7	921.0	948.8	969.2	1008.2	1036.1	1080.6	1130.8
42.5°	761.3	766.9	770.6	789.1	807.7	826.3	848.5	865.3	898.7	932.1	963.7
45°	735.3	724.1	718.6	720.4	727.9	739.0	757.6	776.1	798.4	818.8	837.4
47.5°	713.0	698.1	681.4	672.2	674.0	677.7	692.6	707.4	718.6	735.3	742.7
50°	661.0	648.0	633.2	620.2	622.0	623.9	636.9	648.0	655.4	661.0	670.3
52.5°	627.6	609.0	596.0	583.0	581.2	586.7	597.9	609.0	612.7	616.5	618.3
55°	603.5	584.9	568.2	555.2	549.6	562.6	566.3	581.2	586.7	586.7	588.6
57.5°	584.9	562.6	545.9	532.9	523.6	532.9	542.2	558.9	560.7	557.0	557.0
60°	557.0	540.3	523.6	510.6	501.3	508.8	516.2	534.8	534.8	525.5	523.6
62.5°	508.8	499.5	488.3	482.8	480.9	488.3	493.9	508.8	503.2	492.0	488.3
65°	473.5	466.1	454.9	451.2	449.3	460.5	462.3	471.6	464.2	458.6	456.8
67.5°	430.8	425.2	419.6	417.8	412.2	412.2	415.9	421.5	417.8	417.8	419.6
70°	382.5	375.1	369.5	371.4	367.6	367.6	369.5	373.2	371.4	375.1	378.8
72.5°	337.9	328.7	326.8	326.8	323.1	324.9	324.9	326.8	330.5	332.4	341.6
75°	295.2	285.9	285.9	284.1	284.1	284.1	285.9	289.7	293.4	295.2	298.9
77.5°	256.2	250.7	252.5	250.7	250.7	250.7	250.7	256.2	258.1	259.9	265.5
80°	221.0	221.0	222.8	222.8	221.0	219.1	221.0	224.7	226.5	228.4	230.2
82.5°	200.5	202.4	202.4	202.4	193.1	189.4	195.0	198.7	202.4	204.2	208.0
85°	172.7	165.3	172.7	170.8	157.8	156.0	156.0	157.8	161.5	157.8	157.8
87.5°	111.4	100.3	105.8	105.8	92.8	76.1	96.6	104.0	92.8	98.4	98.4
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: P159168

CATALOG NUMBER: VST-E11-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7
2.5°	3004.3	3000.6	3002.4	3002.4	3006.1	3000.6	3008.0	3015.4	3017.3	3017.3	3019.1
5°	3043.3	3039.5	3052.5	3047.0	3060.0	3058.1	3067.4	3074.8	3078.5	3078.5	3078.5
7.5°	3104.5	3117.5	3125.0	3145.4	3147.2	3158.4	3167.7	3177.0	3173.2	3175.1	3173.2
10°	3173.2	3189.9	3208.5	3228.9	3230.8	3243.8	3258.6	3267.9	3264.2	3262.4	3256.8
12.5°	3232.7	3243.8	3266.1	3286.5	3297.6	3318.1	3332.9	3340.3	3340.3	3334.8	3329.2
15°	3228.9	3245.7	3269.8	3299.5	3319.9	3349.6	3375.6	3392.3	3394.2	3388.6	3386.8
17.5°	3147.2	3171.4	3193.7	3234.5	3271.6	3312.5	3355.2	3379.3	3401.6	3414.6	3422.0
20°	3000.6	3030.3	3061.8	3115.7	3165.8	3219.7	3269.8	3305.1	3338.5	3377.5	3423.9
22.5°	2827.9	2872.4	2917.0	2985.7	3047.0	3108.2	3165.8	3208.5	3260.5	3327.3	3414.6
25°	2625.5	2671.9	2727.6	2807.5	2885.4	2974.6	3060.0	3145.4	3245.7	3360.8	3496.3
27.5°	2386.0	2438.0	2510.4	2606.9	2696.0	2787.0	2920.7	3056.3	3219.7	3368.2	3522.3
30°	2148.3	2215.1	2293.1	2389.7	2478.8	2608.8	2742.5	2909.6	3082.3	3249.4	3433.2
32.5°	1892.1	1975.6	2072.2	2152.0	2252.3	2384.1	2517.8	2696.0	2879.9	3076.7	3279.1
35°	1645.1	1724.9	1801.1	1890.2	1990.5	2114.9	2244.8	2415.7	2647.8	2857.6	3099.0
37.5°	1394.4	1468.7	1522.6	1593.1	1680.4	1817.8	1957.0	2153.9	2373.0	2631.1	2872.4
40°	1175.3	1236.6	1297.9	1353.6	1427.9	1557.8	1706.4	1899.5	2114.9	2365.5	2634.8
42.5°	1000.8	1047.2	1114.1	1180.9	1244.0	1355.4	1494.7	1684.1	1897.6	2153.9	2423.1
45°	854.1	885.7	939.5	995.2	1073.2	1166.1	1299.7	1492.9	1710.1	1968.2	2252.3
47.5°	748.3	763.1	800.3	857.8	930.2	1021.2	1136.3	1310.9	1522.6	1782.5	2081.5
50°	675.9	692.6	711.1	759.4	824.4	917.2	1011.9	1164.2	1357.3	1611.7	1908.8
52.5°	625.7	633.2	640.6	670.3	729.7	807.7	908.0	1023.1	1218.0	1461.3	1728.7
55°	596.0	597.9	603.5	618.3	662.9	735.3	822.6	932.1	1084.4	1314.6	1587.5
57.5°	560.7	564.5	570.0	579.3	607.2	672.2	746.4	835.6	961.8	1154.9	1416.7
60°	527.3	536.6	545.9	551.5	566.3	605.3	668.4	739.0	841.1	986.0	1193.9
62.5°	492.0	503.2	510.6	516.2	521.8	545.9	592.3	638.7	701.9	796.6	952.5
65°	460.5	467.9	473.5	477.2	480.9	488.3	508.8	527.3	545.9	603.5	716.7
67.5°	425.2	428.9	430.8	432.6	430.8	430.8	432.6	440.1	447.5	469.8	523.6
70°	384.4	389.9	389.9	391.8	391.8	386.2	386.2	386.2	386.2	391.8	421.5
72.5°	345.4	352.8	352.8	354.6	352.8	350.9	350.9	350.9	356.5	360.2	371.4
75°	308.2	315.7	313.8	315.7	317.5	317.5	321.2	323.1	328.7	330.5	337.9
77.5°	271.1	276.7	278.5	276.7	280.4	284.1	291.5	295.2	297.1	298.9	300.8
80°	235.8	239.5	237.7	232.1	241.4	247.0	258.1	271.1	267.4	269.2	272.9
82.5°	195.0	189.4	185.7	189.4	195.0	202.4	213.5	230.2	232.1	241.4	239.5
85°	150.4	133.7	131.8	141.1	139.3	148.5	167.1	180.1	191.2	200.5	191.2
87.5°	89.1	79.8	66.8	63.1	68.7	91.0	94.7	115.1	124.4	128.1	115.1
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: P159168

CATALOG NUMBER: VST-E11-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7
2.5°	3188.1	3197.4	3197.4	3201.1	3206.7	3208.5	3215.9	3228.9	3230.8	3230.8	3236.4
5°	3247.5	3256.8	3256.8	3264.2	3266.1	3275.4	3284.6	3299.5	3306.9	3305.1	3329.2
7.5°	3344.1	3336.6	3331.1	3342.2	3347.8	3358.9	3377.5	3390.5	3403.5	3423.9	3457.3
10°	3425.8	3414.6	3409.0	3416.5	3420.2	3433.2	3444.3	3462.9	3494.5	3526.0	3566.9
12.5°	3492.6	3479.6	3464.8	3468.5	3474.0	3490.7	3509.3	3533.5	3579.9	3620.7	3682.0
15°	3548.3	3529.7	3514.9	3522.3	3535.3	3557.6	3589.2	3631.9	3708.0	3778.5	3860.2
17.5°	3602.2	3598.4	3592.9	3617.0	3626.3	3678.3	3724.7	3802.7	3906.7	4012.5	4129.5
20°	3654.1	3695.0	3715.4	3763.7	3793.4	3864.0	3934.5	4029.2	4161.0	4305.9	4465.6
22.5°	3726.6	3838.0	3906.7	4005.1	4055.2	4131.3	4235.3	4359.7	4506.4	4692.1	4896.3
25°	3899.2	4062.6	4200.0	4354.1	4480.4	4597.4	4721.8	4872.2	5083.9	5252.8	5520.2
27.5°	3975.4	4205.6	4411.7	4629.0	4818.3	4998.5	5195.3	5377.2	5627.9	5856.3	6179.4
30°	3903.0	4162.9	4430.3	4714.4	4991.0	5264.0	5549.9	5828.4	6118.1	6437.5	6781.0
32.5°	3769.3	4060.8	4361.6	4695.8	5039.3	5393.9	5765.3	6170.1	6578.6	6975.9	7326.9
35°	3633.7	3947.5	4281.7	4664.2	5069.0	5509.1	5969.5	6482.0	7022.3	7525.5	7984.2
37.5°	3436.9	3782.3	4164.8	4606.7	5087.6	5629.8	6222.1	6853.4	7536.7	8229.2	8830.8
40°	3199.2	3565.0	3982.8	4491.6	5069.0	5754.2	6524.7	7334.3	8212.5	9057.4	9796.4
42.5°	2982.0	3338.5	3784.1	4337.4	5020.7	5863.7	6812.5	7820.8	8860.6	9805.7	10771.2
45°	2790.7	3184.4	3631.9	4229.7	4996.6	5956.6	7026.1	8184.7	9374.9	10500.1	11640.2
47.5°	2616.2	3024.7	3526.0	4170.3	4985.5	6012.3	7174.6	8422.4	9740.7	11033.0	12356.9
50°	2436.1	2833.4	3370.1	4105.3	4957.6	6010.4	7252.6	8583.9	9996.9	11447.0	12850.8
52.5°	2243.0	2642.2	3180.7	3986.5	4898.2	5977.0	7273.0	8693.4	10199.3	11701.4	13270.4
55°	2066.6	2439.8	2978.3	3787.8	4773.8	5895.3	7226.6	8739.9	10342.3	11953.9	13565.6
57.5°	1864.2	2252.3	2764.7	3514.9	4539.8	5750.4	7094.8	8674.9	10383.1	12122.9	13799.6
60°	1585.7	1966.3	2493.7	3191.8	4174.0	5444.1	6849.7	8478.1	10253.1	12152.6	13966.7
62.5°	1266.3	1595.0	2103.7	2746.2	3659.7	4963.2	6396.6	8036.1	9848.4	11874.1	13881.3
65°	941.4	1160.5	1598.7	2163.1	3063.7	4239.0	5666.9	7295.3	9057.4	11099.8	13344.7
67.5°	655.4	813.3	1082.5	1502.1	2228.1	3273.5	4625.2	6138.5	7833.8	9666.4	12230.6
70°	495.8	568.2	714.9	948.8	1442.7	2230.0	3362.6	4710.7	6283.3	8049.1	10464.8
72.5°	423.3	460.5	542.2	649.9	883.8	1355.4	2111.2	3241.9	4636.4	6073.5	8028.7
75°	380.6	412.2	464.2	532.9	625.7	822.6	1238.5	2051.7	3071.1	4068.2	5601.9
77.5°	345.4	373.2	419.6	454.9	505.0	592.3	789.1	1227.3	1840.1	2514.1	3475.9
80°	308.2	324.9	367.6	402.9	441.9	492.0	566.3	770.6	1056.5	1489.1	2049.9
82.5°	263.7	276.7	308.2	356.5	386.2	406.6	428.9	510.6	633.2	807.7	1138.2
85°	204.2	213.5	241.4	276.7	289.7	291.5	295.2	317.5	393.6	605.3	980.4
87.5°	104.0	115.1	144.8	156.0	131.8	143.0	144.8	154.1	204.2	332.4	337.9
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: P159168
CATALOG NUMBER: VST-E11-LED-E-U-SLR-8030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	0°
2.5°	3236.4	3241.9	3254.9	3253.1	3262.4	3262.4	3262.4	3271.6	3266.1	3271.6	3280.9	2.5°
5°	3329.2	3338.5	3357.1	3357.1	3358.9	3353.3	3364.5	3371.9	3362.6	3358.9	3360.8	5°
7.5°	3464.8	3479.6	3494.5	3509.3	3520.5	3514.9	3516.7	3500.0	3496.3	3483.3	3466.6	7.5°
10°	3596.6	3637.4	3665.3	3691.3	3693.1	3687.6	3689.4	3661.6	3656.0	3630.0	3613.3	10°
12.5°	3732.1	3784.1	3828.7	3856.5	3873.2	3877.0	3878.8	3878.8	3852.8	3830.5	3791.5	12.5°
15°	3932.7	4023.6	4092.3	4122.1	4146.2	4168.5	4174.0	4181.5	4161.0	4131.3	4125.8	15°
17.5°	4250.2	4335.6	4426.6	4506.4	4560.3	4564.0	4610.4	4606.7	4649.4	4616.0	4606.7	17.5°
20°	4627.1	4812.8	4907.5	5013.3	5074.6	5104.3	5212.0	5178.6	5210.1	5264.0	5210.1	20°
22.5°	5098.7	5334.5	5471.9	5616.8	5717.0	5789.4	5867.4	5928.7	6014.1	6055.0	6017.8	22.5°
25°	5724.5	5993.7	6157.1	6357.6	6517.3	6647.3	6782.8	6946.2	6944.4	7042.8	7111.5	25°
27.5°	6443.0	6786.5	7024.2	7377.0	7514.4	7733.5	7965.6	8218.1	8262.7	8390.8	8455.8	27.5°
30°	7118.9	7544.1	8015.7	8435.4	8910.7	9235.6	9504.9	9683.1	9952.3	9885.5	9848.4	30°
32.5°	7742.8	8309.1	8981.2	9670.1	10424.0	10938.3	11413.6	11634.6	11801.7	11447.0	10977.3	32.5°
35°	8552.3	9230.1	9998.8	10849.2	11807.3	12537.0	13027.2	13095.9	13001.2	12546.3	11768.3	35°
37.5°	9555.0	10266.1	11140.7	12039.4	13056.9	13742.0	14300.9	14401.2	14150.5	13339.1	12522.1	37.5°
40°	10544.7	11378.3	12327.2	13391.1	14445.7	15199.6	15760.3	15790.1	15381.6	14432.8	13476.5	40°
42.5°	11627.2	12538.8	13595.3	14774.4	15864.3	16627.5	17032.2	17160.4	16582.9	15366.7	14449.5	42.5°
45°	12561.1	13651.0	14828.2	16081.6	17221.6	17945.8	18358.0	18317.1	17619.0	16417.6	15342.6	45°
47.5°	13470.9	14670.4	15910.7	17242.1	18374.7	19106.3	19529.6	19492.5	18606.8	17223.5	16040.7	47.5°
50°	14280.5	15582.1	16907.8	18330.1	19459.1	20129.4	20647.4	20484.0	19364.4	17871.5	16490.1	50°
52.5°	14843.1	16295.1	17680.3	19217.7	20380.0	21015.0	21674.2	21148.7	19811.8	18268.9	16731.4	52.5°
55°	15199.6	16785.3	18229.9	19930.7	21072.6	21832.0	22257.2	21510.8	19984.5	18378.4	16815.0	55°
57.5°	15441.0	17054.5	18552.9	20342.9	21696.5	22333.4	22437.3	21523.8	19873.1	18205.7	16731.4	57.5°
60°	15559.8	17134.4	18699.6	20632.5	22134.7	22483.7	22294.4	21223.0	19488.8	17698.8	16193.0	60°
62.5°	15546.8	17034.1	18623.5	20729.1	22221.9	22266.5	21835.7	20710.5	18781.3	16634.9	15298.0	62.5°
65°	15216.3	16668.3	18194.6	20370.7	21815.3	21624.1	21081.9	19748.7	17405.5	15246.0	14570.2	65°
67.5°	14263.8	15656.4	17073.1	19197.2	20669.7	20484.0	19663.3	17858.5	15806.8	14016.8	13652.9	67.5°
70°	12670.7	13851.6	15095.6	16961.7	18506.5	18255.9	16820.6	15723.2	14222.9	12596.4	12470.1	70°
72.5°	10592.9	11487.9	12390.3	13779.2	14843.1	14330.6	13428.2	13370.7	12158.2	10916.0	10942.0	72.5°
75°	8285.0	8957.1	9378.6	10195.6	10903.0	10444.4	10498.2	10817.6	10418.4	9439.9	9122.4	75°
77.5°	6003.0	6647.3	6781.0	7265.6	7763.2	8285.0	8975.7	9727.7	9853.9	9304.3	8153.1	77.5°
80°	3928.9	4638.2	4374.6	4547.3	5247.3	6199.8	7460.5	8699.0	9124.2	8630.3	7213.6	80°
82.5°	2317.3	3310.6	2891.0	3186.2	3630.0	4460.0	5330.8	6264.8	6975.9	6450.5	6025.3	82.5°
85°	1760.2	2610.6	2764.7	3123.1	3267.9	3303.2	3455.5	3760.0	4127.6	4265.0	4253.9	85°
87.5°	917.2	2029.5	2278.3	2107.4	1966.3	1704.5	1329.5	1431.6	1309.0	1789.9	1695.2	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: P159168

NUMBER: VST-E11-LED-E-U-SLR-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
3102.7	3102.7	3102.7	3102.7	3102.7	3102.7	3102.7
3282.8	3277.2	3280.9	3282.8	3282.8	3282.8	3286.5
3358.9	3344.1	3338.5	3338.5	3336.6	3331.1	3329.2
3440.6	3414.6	3405.3	3394.2	3384.9	3379.3	3370.1
3587.3	3565.0	3518.6	3492.6	3468.5	3451.8	3436.9
3784.1	3752.6	3708.0	3674.6	3637.4	3626.3	3607.7
4088.6	4060.8	4021.8	3984.6	3962.4	3923.4	3895.5
4564.0	4508.3	4469.3	4421.0	4367.1	4287.3	4248.3
5189.7	5078.3	5000.3	4957.6	4849.9	4836.9	4742.2
5908.3	5874.9	5756.0	5704.0	5600.0	5559.2	5410.7
6983.3	6957.4	6714.1	6688.1	6528.4	6409.6	6179.4
8396.4	8182.8	7908.0	7716.8	7443.8	7137.5	6745.7
9631.1	9194.8	8775.1	8329.5	7952.6	7512.5	7068.8
10418.4	9833.5	9293.2	8836.4	8370.4	7846.8	7276.7
11109.1	10518.7	9930.1	9389.7	8825.3	8155.0	7451.3
11935.4	11348.6	10685.8	9926.3	9202.2	8381.5	7521.8
12782.1	12095.1	11266.9	10336.7	9426.9	8492.9	7508.8
13649.2	12770.9	11669.9	10609.6	9569.8	8509.6	7421.5
14352.9	13242.6	11968.8	10748.9	9599.6	8452.1	7312.0
14850.5	13545.2	12102.5	10797.2	9562.4	8361.1	7163.5
15134.6	13710.5	12135.9	10761.9	9486.3	8231.1	7001.9
15238.6	13760.6	12102.5	10689.5	9417.6	8091.8	6888.7
15227.5	13732.7	11979.9	10520.5	9233.8	7906.2	6749.4
15017.6	13474.7	11729.3	10318.1	9077.8	7820.8	6758.7
14661.1	13311.3	11655.0	10359.0	9159.5	8004.6	7052.1
14499.6	13638.0	12072.8	10767.5	9579.1	8530.0	7657.4
14408.6	14169.1	12670.7	11207.5	10076.7	9166.9	8379.6
14037.3	14321.3	13010.5	11458.2	10520.5	9805.7	9101.9
13437.5	13966.7	12752.4	11409.9	10765.6	10295.8	9361.9
12186.0	12744.9	11603.0	10698.8	10459.2	10303.3	8972.0
9872.5	10162.2	9512.3	9308.0	9397.2	9399.0	7525.5
7280.4	7105.9	6812.5	6827.4	7427.1	7334.3	5364.2
5943.6	4864.8	4448.8	4606.7	5347.5	4948.3	3370.1
5531.3	4339.3	3581.7	3618.9	4038.5	3188.1	2029.5
4473.0	3954.9	3171.4	2846.4	2762.9	2124.2	1377.7
1871.6	1721.2	1281.2	1154.9	947.0	579.3	263.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)