

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: P158469

Luminaire Tested: **VST-E07-LED-E-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158469
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)
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-SL3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (147) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19288.2 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



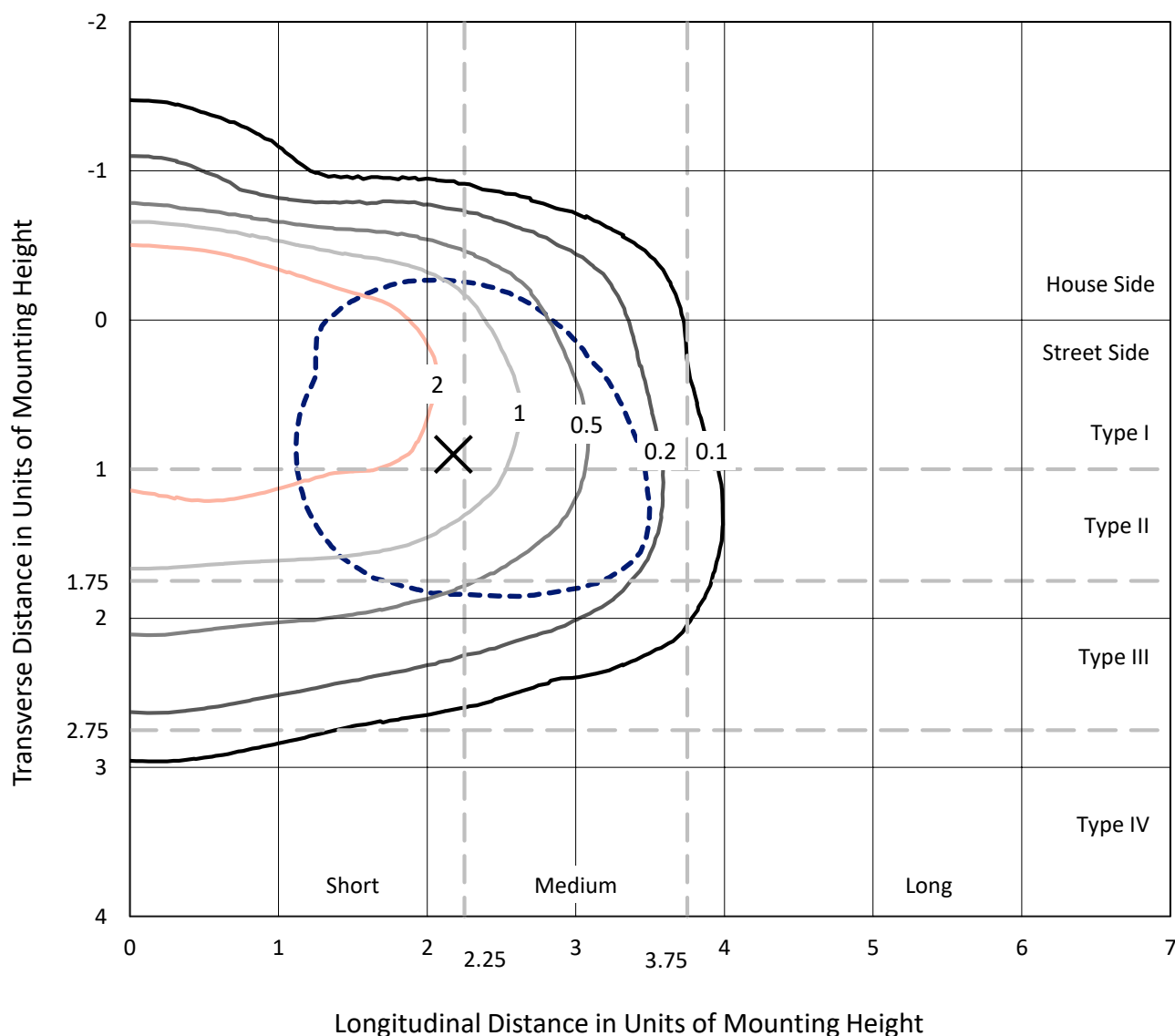
REPORT NUMBER: P158469

CATALOG NUMBER: VST-E07-LED-E-U-SL3-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

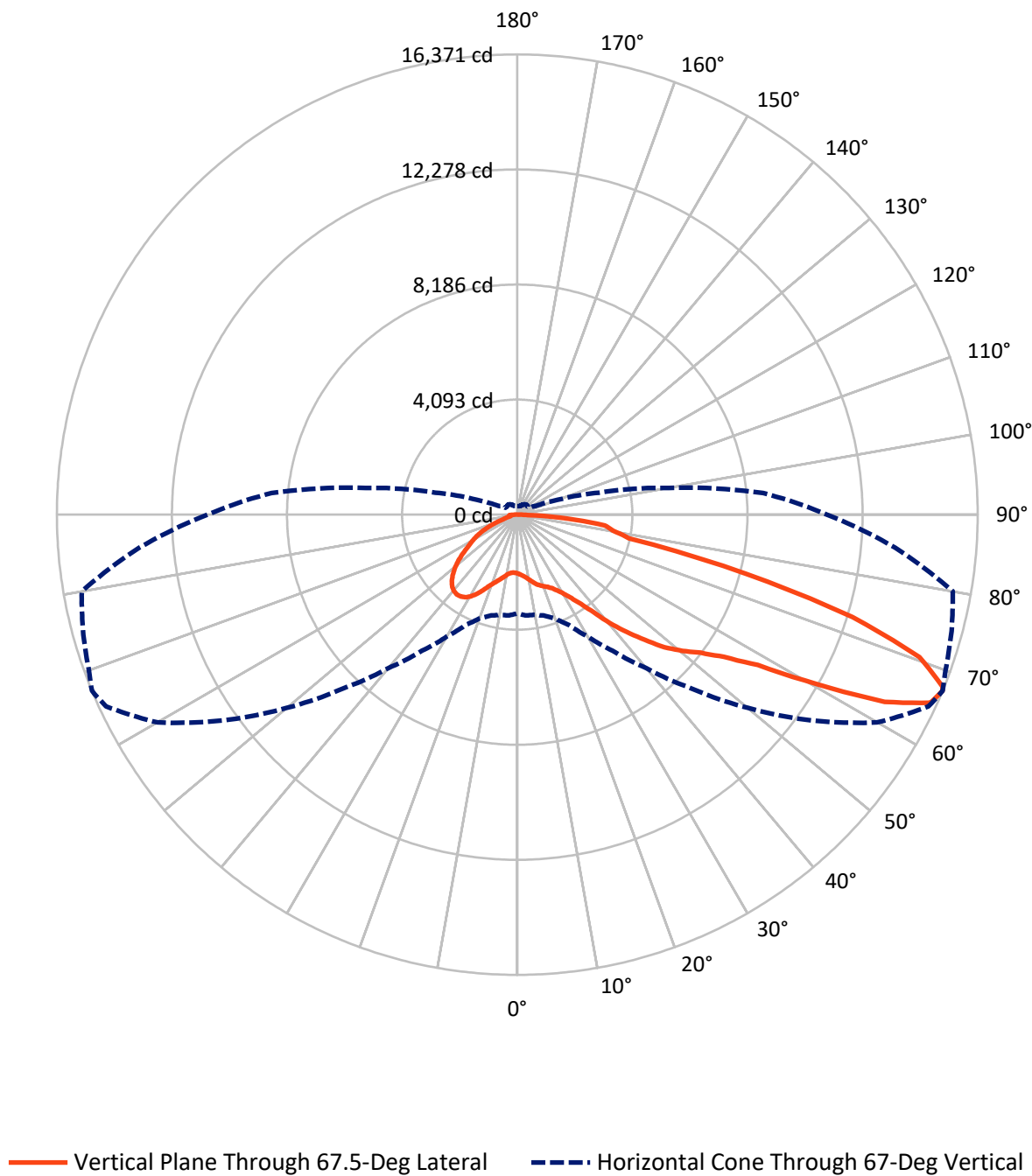


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P158469

CATALOG NUMBER: VST-E07-LED-E-U-SL3-7030

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4627.3	0.0	4627.3
	% Fixture	24.0	0.0	24.0
Street Side	Lumens	14660.9	0.0	14660.9
	% Fixture	76.0	0.0	76.0
Total	Lumens	19288.2	0.0	19288.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.8	1.1
10°-20°	707.9	3.7
20°-30°	1263.9	6.6
30°-40°	1852.3	9.6
40°-50°	2862.0	14.8
50°-60°	4167.6	21.6
60°-70°	5429.0	28.1
70°-80°	2430.2	12.6
80°-90°	367.5	1.9
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°	19288.2	100.0
0°-180°	19288.2	100.0

Coefficient of Utilization



REPORT NUMBER: P158469

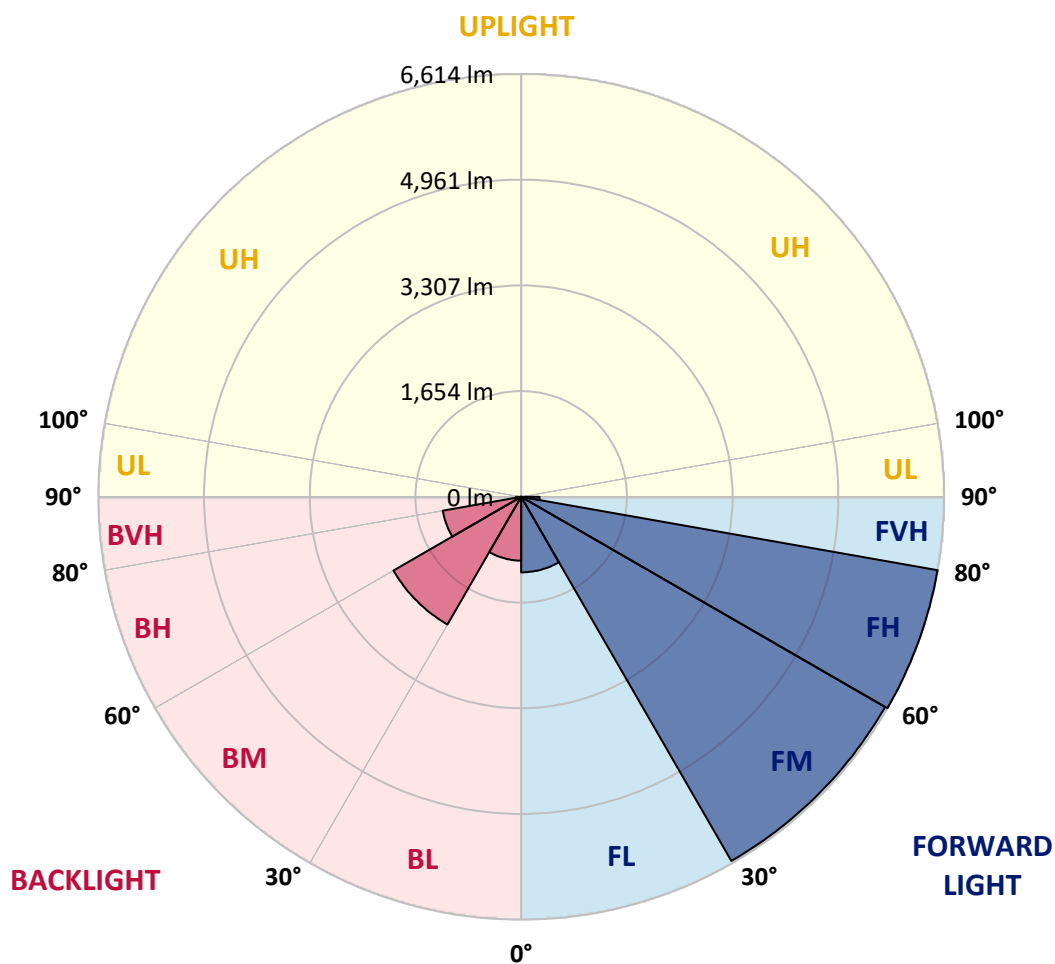
CATALOG NUMBER: VST-E07-LED-E-U-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1181.8	6.1			
FM	(30°-60°)	6576.3	34.1			
FH	(60°-80°)	6614.3	34.3			G3/7500
FVH	(80°-90°)	288.6	1.5			G3/500
BL	(0°-30°)	997.8	5.2	B2/1000		
BM	(30°-60°)	2305.7	12.0	B2/2500		
BH	(60°-80°)	1244.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	78.9	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-G3

Type III Short





REPORT NUMBER: P158469

CATALOG NUMBER: VST-E07-LED-E-U-SL3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7
2.5°	2172.5	2177.6	2178.9	2177.6	2178.9	2173.8	2172.5	2164.8	2168.7	2158.4	2155.9
5°	2290.1	2294.0	2296.5	2286.3	2288.9	2283.7	2277.3	2269.7	2259.4	2245.4	2236.4
7.5°	2405.2	2411.6	2410.3	2406.5	2397.5	2392.4	2379.6	2368.1	2350.2	2333.6	2322.1
10°	2559.9	2558.7	2558.7	2536.9	2524.1	2512.6	2489.6	2471.7	2453.8	2429.5	2416.7
12.5°	2739.0	2730.0	2726.2	2710.8	2684.0	2663.5	2630.3	2595.7	2563.8	2538.2	2517.7
15°	2911.6	2911.6	2901.3	2877.1	2851.5	2824.6	2777.3	2727.4	2675.0	2634.1	2613.6
17.5°	3068.9	3054.8	3045.8	3013.9	2987.0	2943.5	2891.1	2837.4	2772.2	2714.7	2675.0
20°	3183.9	3172.4	3153.3	3113.6	3067.6	3016.4	2955.1	2892.4	2822.1	2759.4	2714.7
22.5°	3250.4	3236.4	3207.0	3154.5	3091.9	3020.3	2948.7	2889.8	2825.9	2778.6	2741.5
25°	3285.0	3270.9	3231.3	3162.2	3077.8	2983.2	2901.3	2843.8	2806.7	2795.2	2790.1
27.5°	3283.7	3272.2	3230.0	3150.7	3042.0	2933.3	2845.1	2796.5	2792.7	2837.4	2870.7
30°	3250.4	3242.8	3204.4	3125.1	3011.3	2897.5	2815.7	2790.1	2829.7	2924.4	3006.2
32.5°	3217.2	3213.3	3186.5	3114.9	3017.7	2921.8	2865.5	2868.1	2949.9	3095.7	3227.4
35°	3221.0	3226.1	3222.3	3183.9	3122.6	3072.7	3045.8	3102.1	3230.0	3406.4	3582.9
37.5°	3254.3	3273.4	3297.7	3301.6	3302.9	3295.2	3351.4	3470.4	3657.1	3887.2	4163.4
40°	3327.2	3348.9	3419.2	3480.6	3559.9	3654.5	3768.3	3933.3	4164.7	4448.6	4787.4
42.5°	3553.5	3584.2	3671.1	3784.9	3930.7	4079.0	4249.1	4474.1	4758.0	5057.2	5412.7
45°	3848.9	3912.8	4008.7	4135.3	4353.9	4562.4	4782.3	5034.2	5336.0	5710.6	6068.7
47.5°	4217.1	4281.1	4420.4	4556.0	4814.3	5073.8	5314.2	5577.6	5905.0	6288.6	6685.0
50°	4539.4	4612.2	4736.3	4919.1	5218.3	5536.7	5802.7	6087.8	6362.8	6766.8	7167.1
52.5°	4792.5	4845.0	4963.9	5131.4	5465.1	5814.2	6150.5	6467.6	6793.7	7197.7	7568.6
55°	4824.5	4873.1	4989.5	5181.3	5520.1	5907.6	6295.0	6670.9	7132.5	7573.7	8064.7
57.5°	4686.4	4726.0	4843.7	5015.0	5344.9	5786.1	6275.8	6757.9	7348.6	7944.5	8544.2
60°	4490.8	4530.4	4622.5	4759.3	5057.2	5532.9	6104.5	6764.3	7549.4	8409.9	9292.2
62.5°	4275.9	4310.5	4384.6	4481.8	4743.9	5182.5	5837.2	6722.1	7713.1	8872.8	10233.4
65°	3914.1	3997.2	4029.2	4128.9	4391.0	4805.3	5471.5	6436.9	7646.6	9078.7	10824.1
67°	3513.8	3598.2	3614.9	3715.9	3925.6	4323.3	5001.0	5908.8	7119.7	8723.2	10693.7
67.5°	3386.0	3457.6	3483.2	3584.2	3782.4	4157.0	4800.2	5718.3	6958.6	8528.9	10536.4
70°	2489.6	2568.9	2597.0	2639.2	2781.2	3093.2	3519.0	4315.6	5548.2	6959.9	8888.2
72.5°	1332.4	1396.3	1423.2	1485.8	1558.7	1728.8	2054.9	2626.4	3405.2	4657.0	6323.1
75°	901.5	927.1	946.2	989.7	1065.1	1200.7	1343.9	1544.7	2015.2	2627.7	3598.2
77.5°	514.0	525.5	528.1	535.8	595.9	725.0	960.3	1300.4	1667.4	1904.0	2301.6
80°	222.5	245.5	263.4	251.9	248.1	274.9	344.0	512.8	1005.1	1595.8	1893.7
82.5°	120.2	130.4	145.8	147.0	154.7	163.7	177.7	211.0	296.7	598.4	1305.5
85°	62.7	65.2	87.0	99.7	106.1	111.2	113.8	126.6	145.8	185.4	324.8
87.5°	9.0	12.8	15.3	20.5	23.0	24.3	28.1	35.8	42.2	51.1	87.0
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: P158469

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7
2.5°	2144.4	2141.8	2134.1	2129.0	2123.9	2118.8	2112.4	2107.3	2098.3	2091.9	2084.3
5°	2223.6	2208.3	2198.1	2184.0	2181.4	2164.8	2148.2	2140.5	2125.2	2112.4	2097.1
7.5°	2304.2	2286.3	2269.7	2258.2	2251.8	2228.8	2212.1	2193.0	2175.1	2158.4	2140.5
10°	2398.8	2380.9	2363.0	2355.3	2343.8	2322.1	2308.0	2283.7	2265.8	2245.4	2221.1
12.5°	2497.3	2484.5	2471.7	2461.5	2456.4	2446.1	2425.7	2405.2	2380.9	2360.5	2332.3
15°	2584.2	2575.3	2570.2	2567.6	2567.6	2561.2	2542.0	2522.9	2497.3	2474.3	2443.6
17.5°	2645.6	2641.8	2645.6	2649.4	2654.6	2649.4	2645.6	2623.9	2607.2	2579.1	2548.4
20°	2681.4	2689.1	2708.3	2721.1	2732.6	2741.5	2745.3	2727.4	2705.7	2685.2	2664.8
22.5°	2719.8	2741.5	2774.8	2793.9	2813.1	2845.1	2852.8	2840.0	2823.3	2810.6	2788.8
25°	2783.7	2815.7	2873.2	2903.9	2930.8	2978.1	2984.5	2987.0	2983.2	2973.0	2946.1
27.5°	2883.4	2946.1	3022.8	3062.5	3091.9	3153.3	3177.5	3177.5	3167.3	3178.8	3178.8
30°	3057.3	3140.5	3240.2	3263.2	3309.3	3363.0	3402.6	3407.7	3409.0	3433.3	3469.1
32.5°	3324.6	3403.9	3515.1	3540.7	3580.3	3631.5	3676.2	3671.1	3682.6	3735.1	3782.4
35°	3713.3	3793.9	3866.8	3901.3	3919.2	3965.2	3981.8	4010.0	4044.5	4109.7	4103.3
37.5°	4288.7	4360.3	4370.6	4392.3	4370.6	4379.5	4392.3	4425.5	4517.6	4576.4	4481.8
40°	4981.8	5100.7	5089.2	5063.6	5015.0	4949.8	4972.8	5024.0	5123.7	5072.6	4818.1
42.5°	5635.2	5757.9	5734.9	5705.5	5598.1	5573.8	5571.3	5613.5	5667.2	5521.4	5081.5
45°	6278.4	6403.7	6364.0	6347.4	6275.8	6223.4	6266.9	6269.4	6255.4	5943.4	5311.7
47.5°	6942.0	7057.1	7031.5	7045.6	6971.4	6936.9	6940.7	6922.8	6791.1	6301.4	5490.7
50°	7477.8	7632.5	7647.8	7615.9	7576.2	7523.8	7658.1	7609.5	7316.7	6649.2	5663.3
52.5°	7894.6	8103.1	8182.3	8161.9	8129.9	8136.3	8388.2	8443.2	7958.6	7087.8	5853.8
55°	8388.2	8716.8	8846.0	8922.7	8889.5	9017.3	9594.0	9622.1	8851.1	7660.6	6101.9
57.5°	9100.4	9571.0	9978.9	10087.6	10192.4	10608.0	11544.0	11258.9	10009.6	8527.6	6416.5
60°	10183.5	11214.1	11876.5	12224.3	12469.8	13050.3	13940.3	13217.8	11453.2	9559.5	6811.6
62.5°	11700.0	13206.3	14313.7	14662.7	14763.8	15097.5	15742.0	14359.7	12239.6	10022.4	6846.1
65°	12829.1	14635.9	15961.9	16140.9	16020.7	16027.1	16195.9	14299.6	11946.8	9618.3	6252.8
67°	12754.9	14777.8	16135.8	16371.1	16204.8	15986.2	15722.8	13485.1	11005.7	8771.8	5475.4
67.5°	12641.1	14641.0	16060.4	16308.4	16156.3	15906.9	15522.0	13169.2	10712.9	8508.4	5316.8
70°	10927.7	12913.5	14825.1	15174.2	15238.2	15010.5	13930.1	11104.1	8697.7	6921.6	4128.9
72.5°	8505.8	10274.3	12165.5	12468.5	12714.0	12058.1	10138.7	7669.6	6339.7	4988.2	2989.6
75°	5616.0	7415.1	8369.0	8413.8	8100.5	6885.7	4953.6	3841.2	3535.6	2932.0	1850.3
77.5°	3004.9	4360.3	4387.2	4062.4	3914.1	2918.0	1184.1	653.4	727.6	826.0	736.5
80°	2241.5	2777.3	3218.5	3460.1	3531.7	2502.4	612.5	346.5	303.0	276.2	272.4
82.5°	2021.6	2682.7	3007.5	3139.2	3105.9	2058.7	344.0	232.7	193.1	209.7	239.1
85°	792.8	1432.1	1883.5	1823.4	1531.9	767.2	188.0	125.3	125.3	181.6	235.3
87.5°	162.4	294.1	399.0	381.0	342.7	148.3	92.1	75.4	76.7	147.0	222.5
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7	2090.7
2.5°	2076.6	2068.9	2063.8	2058.7	2053.6	2051.0	2047.2	2047.2	2039.5	2037.0	2034.4
5°	2085.5	2072.8	2063.8	2052.3	2043.3	2035.7	2025.4	2022.9	2013.9	2007.5	2005.0
7.5°	2123.9	2104.7	2085.5	2071.5	2058.7	2042.1	2030.6	2020.3	2011.4	2005.0	1997.3
10°	2196.8	2176.3	2149.5	2123.9	2107.3	2081.7	2063.8	2045.9	2035.7	2028.0	2017.8
12.5°	2304.2	2274.8	2242.8	2212.1	2184.0	2150.8	2132.9	2111.1	2098.3	2091.9	2084.3
15°	2414.2	2382.2	2342.6	2313.2	2281.2	2255.6	2239.0	2219.8	2209.6	2201.9	2196.8
17.5°	2526.7	2489.6	2461.5	2432.1	2416.7	2397.5	2375.8	2351.5	2322.1	2304.2	2279.9
20°	2641.8	2613.6	2597.0	2580.4	2562.5	2535.6	2492.2	2442.3	2387.3	2334.9	2285.0
22.5°	2776.0	2759.4	2756.9	2741.5	2704.4	2640.5	2559.9	2466.6	2373.2	2286.3	2218.5
25°	2965.3	2965.3	2952.5	2889.8	2802.9	2687.8	2552.3	2418.0	2294.0	2175.1	2085.5
27.5°	3203.1	3194.2	3131.5	3002.4	2846.4	2667.3	2485.8	2315.7	2157.2	2026.7	1911.6
30°	3465.3	3402.6	3268.3	3065.0	2831.0	2600.9	2378.4	2181.4	1994.8	1834.9	1699.4
32.5°	3737.6	3585.4	3343.8	3065.0	2777.3	2501.1	2244.1	2002.4	1788.9	1609.9	1448.8
35°	3984.4	3706.9	3361.7	3015.2	2672.5	2354.1	2056.1	1782.5	1526.8	1333.7	1157.2
37.5°	4208.2	3787.5	3342.5	2918.0	2520.3	2146.9	1797.8	1496.1	1207.1	1020.4	869.5
40°	4353.9	3804.1	3263.2	2765.8	2302.9	1866.9	1480.7	1143.1	914.3	744.2	643.2
42.5°	4444.7	3772.1	3135.3	2557.4	2010.1	1515.2	1111.2	819.6	649.6	555.0	516.6
45°	4495.9	3689.0	2946.1	2272.2	1655.9	1152.1	789.0	592.0	500.0	466.7	453.9
47.5°	4493.3	3554.8	2709.5	1942.3	1264.6	803.0	558.8	461.6	436.0	425.8	423.2
50°	4466.5	3389.8	2432.1	1584.3	913.0	560.1	442.4	414.3	407.9	401.5	399.0
52.5°	4429.4	3185.2	2125.2	1235.2	648.3	447.5	401.5	393.8	388.7	382.3	379.8
55°	4360.3	2933.3	1792.7	929.6	507.6	404.1	387.4	384.9	378.5	369.5	364.4
57.5°	4275.9	2677.6	1474.3	726.3	448.8	393.8	384.9	381.0	372.1	361.9	351.6
60°	4245.3	2466.6	1225.0	612.5	434.8	397.7	391.3	386.2	373.4	358.0	346.5
62.5°	4053.4	2228.8	1046.0	567.7	442.4	414.3	411.7	404.1	384.9	367.0	349.1
65°	3557.3	1884.8	886.1	537.0	457.8	442.4	445.0	433.5	414.3	390.0	358.0
67°	3008.8	1537.0	737.8	507.6	469.3	471.8	480.8	471.8	447.5	413.0	369.5
67.5°	2863.0	1448.8	700.7	498.7	471.8	479.5	489.7	483.3	459.0	419.4	374.7
70°	2127.7	1020.4	523.0	451.4	471.8	502.5	525.5	531.9	505.1	450.1	384.9
72.5°	1498.6	658.5	401.5	391.3	428.4	469.3	512.8	534.5	503.8	443.7	370.8
75°	900.2	411.7	326.1	332.5	360.6	402.8	437.3	446.3	407.9	369.5	321.0
77.5°	416.9	273.6	255.7	264.7	291.5	310.7	310.7	292.8	263.4	240.4	230.2
80°	245.5	223.8	222.5	239.1	257.0	243.0	221.2	196.9	181.6	173.9	170.1
82.5°	230.2	239.1	254.5	258.3	244.2	209.7	182.9	158.6	150.9	147.0	143.2
85°	271.1	290.3	264.7	244.2	216.1	176.5	143.2	122.8	118.9	115.1	110.0
87.5°	250.6	239.1	208.4	179.0	148.3	107.4	78.0	70.3	75.4	74.2	71.6
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: P158469

CATALOG NUMBER: VST-E07-LED-E-U-SL3-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2090.7	2090.7	2090.7	2090.7	2090.7
2.5°	2035.7	2035.7	2030.6	2028.0	2034.4
5°	1999.9	2001.2	1997.3	1996.0	1997.3
7.5°	1992.2	1990.9	1988.4	1985.8	1988.4
10°	2015.2	2013.9	2010.1	2012.7	2008.8
12.5°	2084.3	2091.9	2090.7	2093.2	2098.3
15°	2196.8	2195.5	2191.7	2194.2	2198.1
17.5°	2260.7	2250.5	2241.5	2237.7	2237.7
20°	2245.4	2216.0	2200.6	2191.7	2189.1
22.5°	2154.6	2112.4	2080.4	2072.8	2066.4
25°	2006.3	1953.8	1912.9	1904.0	1887.3
27.5°	1833.6	1763.3	1714.7	1704.5	1695.5
30°	1607.3	1526.8	1470.5	1434.7	1446.2
32.5°	1331.1	1254.4	1189.2	1131.6	1122.7
35°	1028.1	943.7	886.1	860.6	843.9
37.5°	767.2	696.9	658.5	634.2	635.5
40°	586.9	549.8	529.4	512.8	514.0
42.5°	489.7	473.1	468.0	460.3	456.5
45°	443.7	438.6	439.9	432.2	429.6
47.5°	418.1	414.3	415.6	410.5	409.2
50°	397.7	395.1	396.4	392.6	391.3
52.5°	377.2	378.5	377.2	374.7	374.7
55°	359.3	358.0	360.6	356.8	356.8
57.5°	345.2	344.0	344.0	342.7	342.7
60°	337.6	332.5	331.2	331.2	332.5
62.5°	333.7	324.8	323.5	323.5	324.8
65°	335.0	321.0	315.8	314.6	313.3
67°	336.3	315.8	305.6	300.5	299.2
67.5°	337.6	313.3	301.8	296.7	294.1
70°	329.9	295.4	278.8	269.8	267.2
72.5°	310.7	273.6	253.2	241.7	239.1
75°	276.2	248.1	230.2	217.4	212.3
77.5°	213.5	200.8	194.4	186.7	184.1
80°	166.2	159.8	157.3	152.2	150.9
82.5°	138.1	131.7	127.9	121.5	117.6
85°	107.4	99.7	97.2	92.1	89.5
87.5°	70.3	66.5	65.2	58.8	56.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)